PROJECT MANUAL

CONSTRUCTION DOCUMENTS
VOLUME 3 OF 3

19 December 2025

Worcester South Division Fire Station Project

Worcester, MA

Perkins&Will Project Number: 157132.000

Perkins&Will

225 Franklin Street, Suite 700, Boston, MA 02110 | 617.478.0300

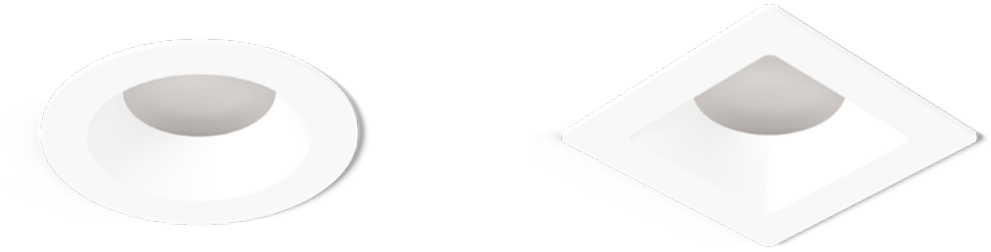
AD01A

Opus Eco™ by Lightheaded

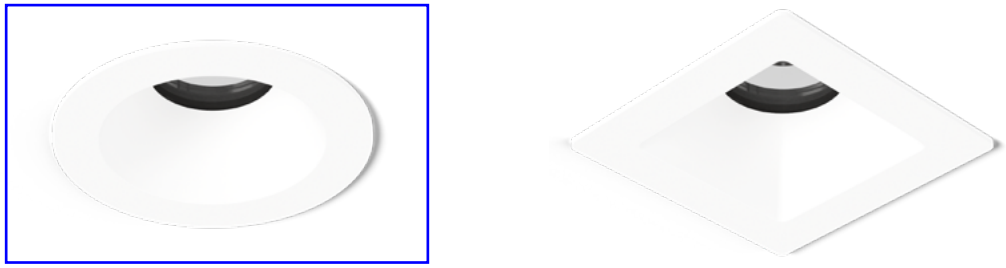
3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

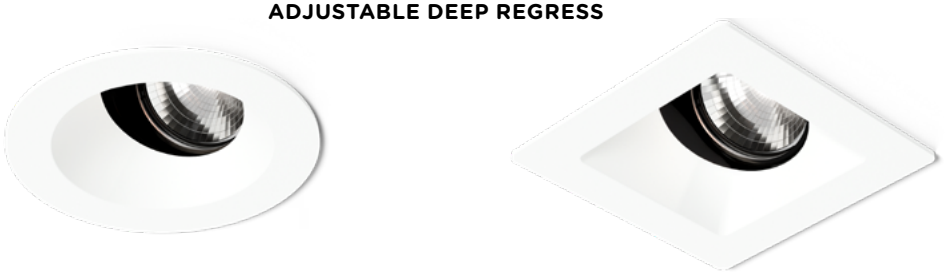
SHALLOW REGRESS



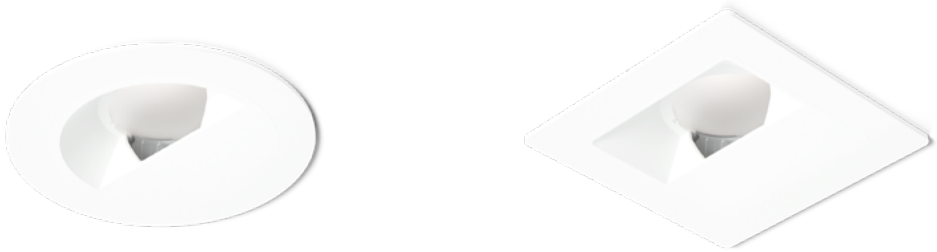
FIXED DEEP REGRESS



ADJUSTABLE DEEP REGRESS



FIXED WALL WASH



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LIGHTHEADED™

AD01A

OPUS ECO

3″ | Standard LED

RATINGS

Damp Location

Wet Location

Warm Dimming

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3″ Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75″ plenums heights
- Emergency Battery options require 5.75″ plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25″ ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

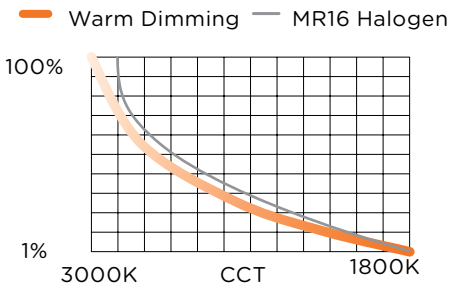
PERFORMANCE SUMMARY

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

WARM DIMMING METRICS



- Source lumens are based on 3000K color temperature.
- Delivered lumens are based on 3000K color temperature, 40° beam angle and clear lens.
- Source and delivered lumens do not apply to 10° beam angle.
- Refer to IES files for individual product information.
- Consult factory for additional lower lumen options.

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LIGHTHEADED™

AD01A

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected Check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Remodel driver included with complete trim order.
13. Remote driver included with complete trim order. Wiring between fixture and driver by others.
14. 120 volt is only available in S dimming.
15. UNV volt is only available in P, P1, P0, D & LH dimming.
16. EXT extension option is supplied as a kit.
17. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
18. CL media option is not available with 9510 lumen series.
19. EM1 battery is only available in Remodel driver option and requires R3P-F-R-T-EM1 baseplate.
20. EM1 & EM2 battery are not available in remodel LH dimming.
21. EM1 & EM2 battery are not available in SIC or SCP.
22. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
23. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
24. SIC & SCP are available only with 8010, 9008, 8014, 9010 and 9510 (Warm Dim).
25. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
26. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash[1,2,9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash[1,2,9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens[3]
- ☐ **F** Frosted Glass Lens[3]

[4] FLANGE FINISH
- ☐ **WS** White Satin[4,5]
- ☐ **01** White[6]
- ☐ **04** Black[6]
- ☐ **05** Matte Silver[6]
- ☐ **06** Bronze[6]
- ☐ **11** Matte Nickel[6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange[7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening[8]
- ☐ **GFRO** Frosted[8]
- ☐ **WW** Wall Wash Trim[9]

[7] MODULE & BEAM SPREAD[10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash[9]

[8] COLOR TEMPERATURE
- ☐ **22** 2200K[11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K
- ☐ **3018** 3000K–1800K

[9] LUMEN SERIES
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm
- ☐ **9510** 95 CRI, 925lm

[10] DIMMING
- ☐ **[blank]** Remodel Driver[12]
- ☐ **RT** Remote Driver[13]

[11] DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[12] VOLTAGE
- ☐ **120** 120V[14]
- ☐ **UNV** 120-277V[15]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0")[16]

[14] OPTIONAL MEDIA (1 MAX)[17]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear[18]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch[19, 20, 21, 22]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover[20, 21, 22]

SELECT A HOUSING

[16] HOUSING[23]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight[21, 24, 25]
- ☐ **SCP** Shallow Chicago Plenum[21, 24, 25]

[18] TRIM SHAPE
- ☐ **R** Round[26]

[19] FLANGE TYPE
- ☐ **T** Trimmed

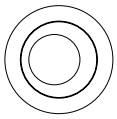
[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch[19]

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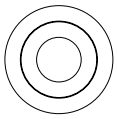
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

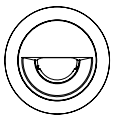
1.35″ [34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

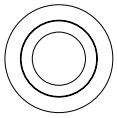
1.35″ [34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

0.81″ [21mm]

FIXED SHALLOW REGRESS

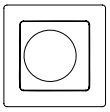
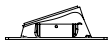

Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

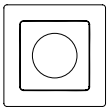
0.95″ [24mm]

CEILING CUTOUT

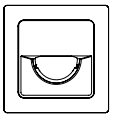

Ø 3.875″ [98mm]

SQUARE SINGLE DIMENSIONS

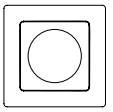

4.25″ [108mm]
2.86″ [73mm]

1.35″ [34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″ [32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″ [73mm]

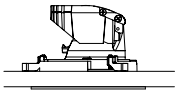
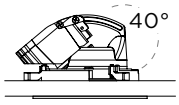
2.39″ [61mm]
0.5″ [13mm] minimum

WALL WASH TRIM

2.89″ [73mm]

2.39″ [61mm]
0.5″ [13mm] minimum

ADJUSTABLE TRIM


3.2″ [87mm]


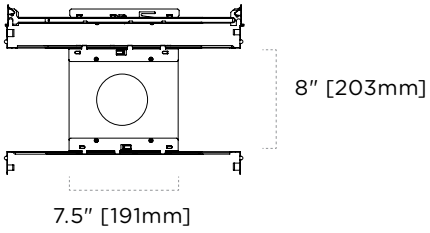
2.70″ [69mm]
0.5″ [13mm] minimum

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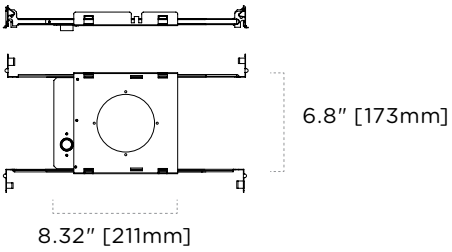
LIGHTHEADED™

AD01A

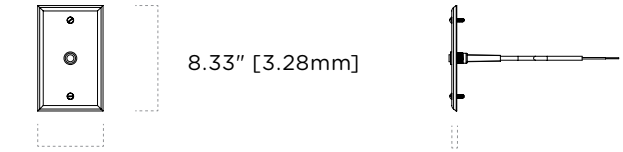
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

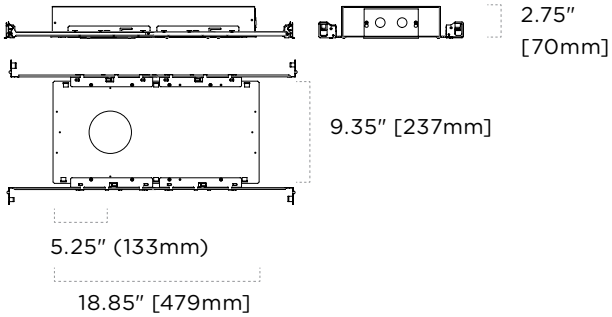


REMOTE TEST COVER DIMENSIONS (EM2)



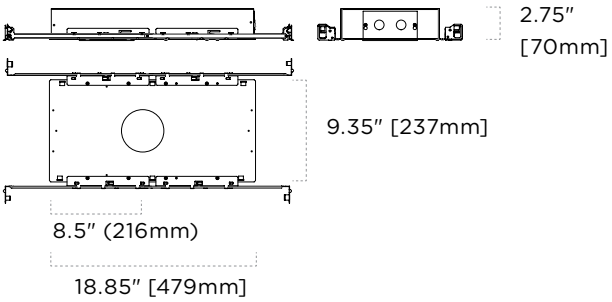
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

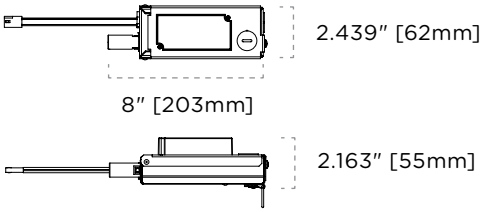


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

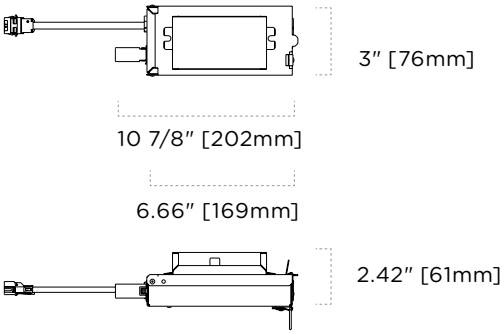


REMODEL DRIVER DIMENSIONS



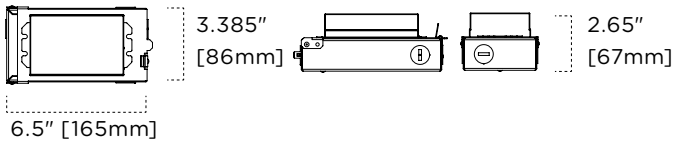
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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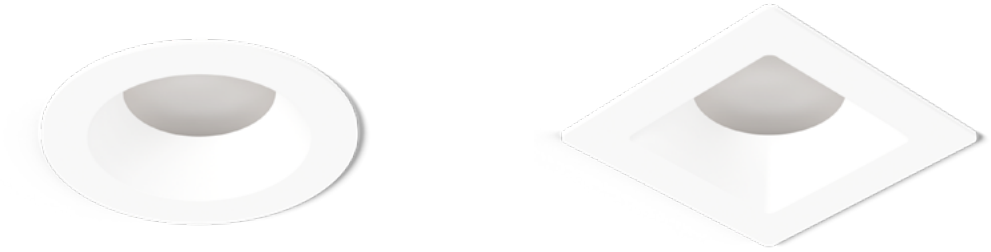
AD01B

Opus Eco™ by Lightheaded

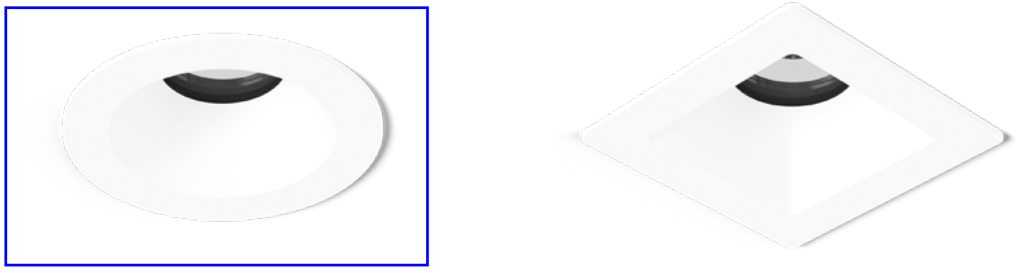
3" | Standard LED

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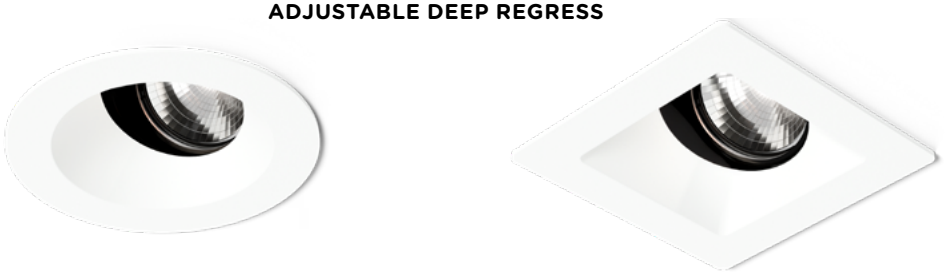
SHALLOW REGRESS



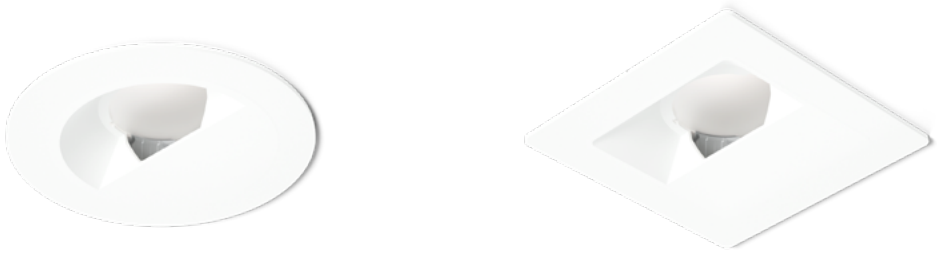
FIXED DEEP REGRESS



ADJUSTABLE DEEP REGRESS



FIXED WALL WASH



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info@lightheadedlighting.com **P.** 604.464.5644 **T.** 1.800.464.9544

LIGHTHEADED™

AD01B

OPUS ECO

3″ | Standard LED

RATINGS

Damp Location

Wet Location

Warm Dimming

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3″ Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75″ plenums heights
- Emergency Battery options require 5.75″ plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25″ ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

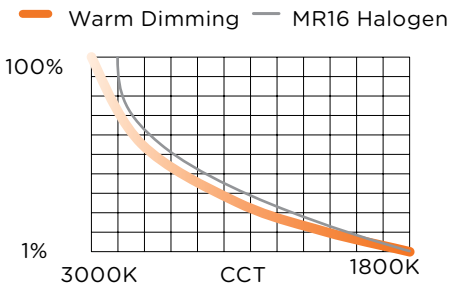
PERFORMANCE SUMMARY

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

WARM DIMMING METRICS



- Source lumens are based on 3000K color temperature.
- Delivered lumens are based on 3000K color temperature, 40° beam angle and clear lens.
- Source and delivered lumens do not apply to 10° beam angle.
- Refer to IES files for individual product information.
- Consult factory for additional lower lumen options.

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LIGHTHEADED™

AD01B

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected Check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Remodel driver included with complete trim order.
13. Remote driver included with complete trim order. Wiring between fixture and driver by others.
14. 120 volt is only available in S dimming.
15. UNV volt is only available in P, P1, P0, D & LH dimming.
16. EXT extension option is supplied as a kit.
17. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
18. CL media option is not available with 9510 lumen series.
19. EM1 battery is only available in Remodel driver option and requires R3P-F-R-T-EM1 baseplate.
20. EM1 & EM2 battery are not available in remodel LH dimming.
21. EM1 & EM2 battery are not available in SIC or SCP.
22. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
23. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
24. SIC & SCP are available only with 8010, 9008, 8014, 9010 and 9510 (Warm Dim).
25. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
26. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash[1,2,9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash[1,2,9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens[3]
- ☐ **F** Frosted Glass Lens[3]

[4] FLANGE FINISH
- ☐ **WS** White Satin[4,5]
- ☐ **01** White[6]
- ☐ **04** Black[6]
- ☐ **05** Matte Silver[6]
- ☐ **06** Bronze[6]
- ☐ **11** Matte Nickel[6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange[7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening[8]
- ☐ **GFRO** Frosted[8]
- ☐ **WW** Wall Wash Trim[9]

[7] MODULE & BEAM SPREAD[10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash[9]

[8] COLOR TEMPERATURE
- ☐ **22** 2200K[11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K
- ☐ **3018** 3000K–1800K

[9] LUMEN SERIES
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm
- ☐ **9510** 95 CRI, 925lm

[10] DIMMING
- ☐ **[blank]** Remodel Driver[12]
- ☐ **RT** Remote Driver[13]

[11] DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[12] VOLTAGE
- ☐ **120** 120V[14]
- ☐ **UNV** 120-277V[15]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0")[16]

[14] OPTIONAL MEDIA (1 MAX)[17]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear[18]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch[19, 20, 21, 22]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover[20, 21, 22]

SELECT A HOUSING

[16] HOUSING[23]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight[21, 24, 25]
- ☐ **SCP** Shallow Chicago Plenum[21, 24, 25]

[18] TRIM SHAPE
- ☐ **R** Round[26]

[19] FLANGE TYPE
- ☐ **T** Trimmed

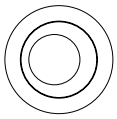
[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch[19]

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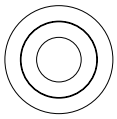
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

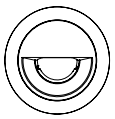
1.35″ [34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

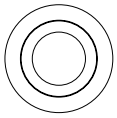
1.35″ [34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

0.81″ [21mm]

FIXED SHALLOW REGRESS

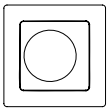
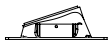

Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

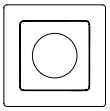
0.95″ [24mm]

CEILING CUTOUT

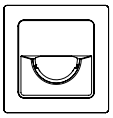

Ø 3.875″ [98mm]

SQUARE SINGLE DIMENSIONS

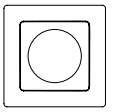

4.25″ [108mm]
2.86″ [73mm]

1.35″ [34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″ [32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″ [73mm]

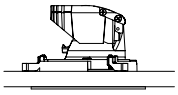
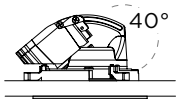
2.39″ [61mm]
0.5″ [13mm] minimum

WALL WASH TRIM

2.89″ [73mm]

2.39″ [61mm]
0.5″ [13mm] minimum

ADJUSTABLE TRIM

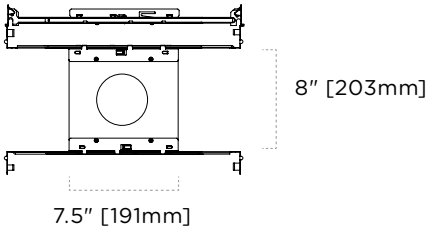

3.2″ [87mm]


2.70″ [69mm]
0.5″ [13mm] minimum

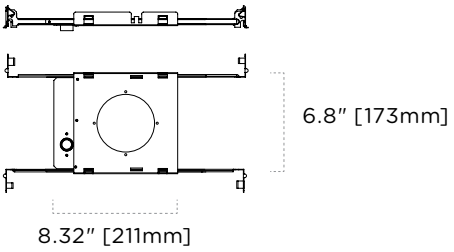
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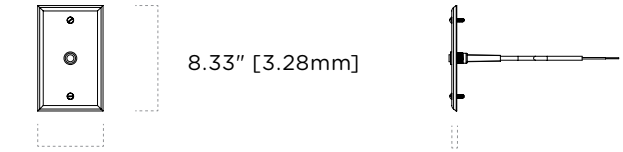
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

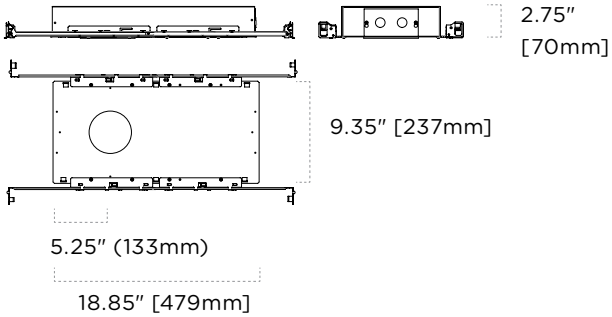


REMOTE TEST COVER DIMENSIONS (EM2)



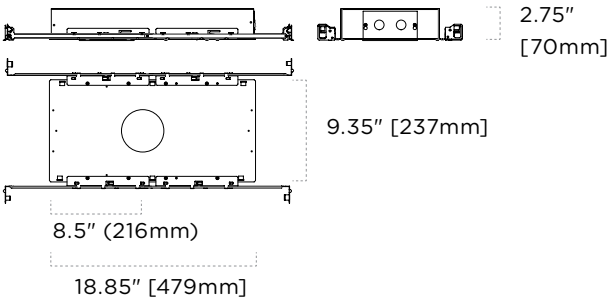
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

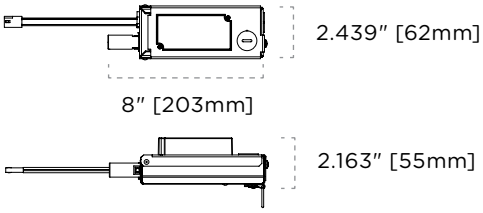


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

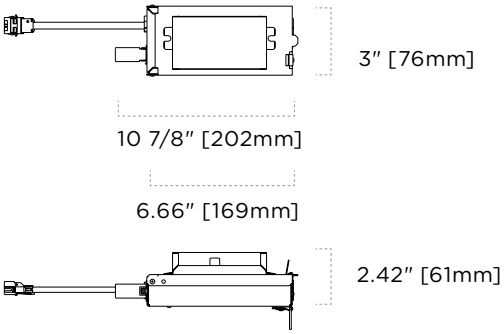


REMODEL DRIVER DIMENSIONS



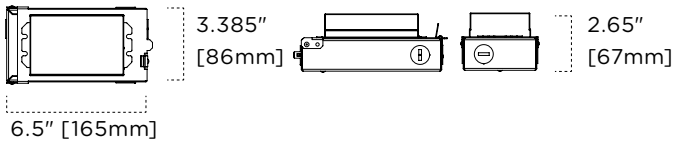
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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LIGHTHEADED™

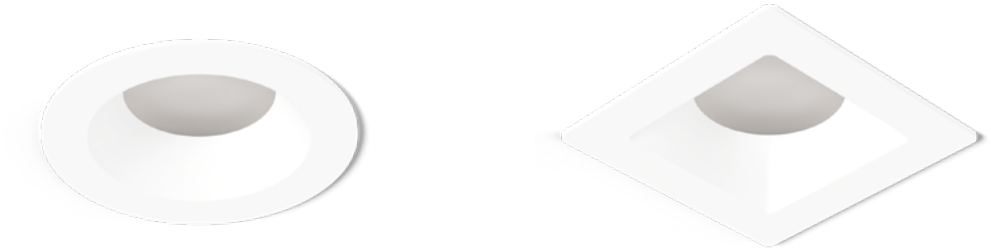
AD01C

Opus Eco™ by Lightheaded

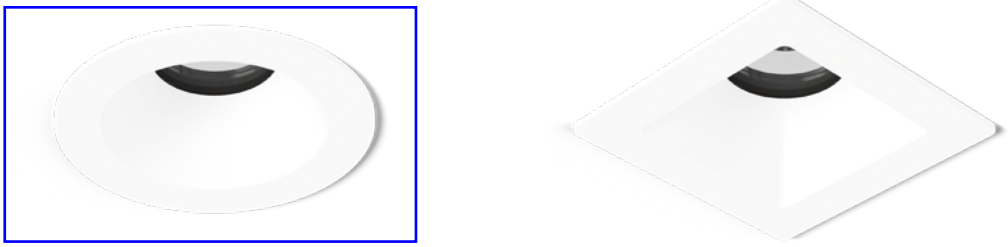
3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

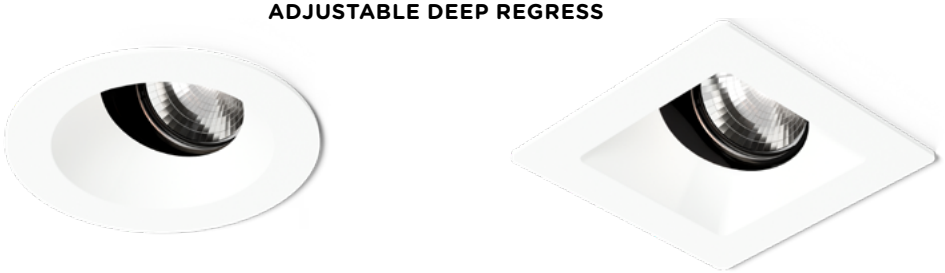
SHALLOW REGRESS



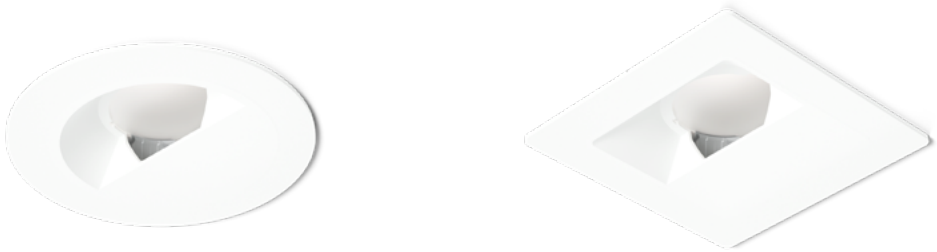
FIXED DEEP REGRESS



ADJUSTABLE DEEP REGRESS



FIXED WALL WASH



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LIGHTHEADED™

AD01C

OPUS ECO

3" | Standard LED

RATINGS

Damp Location

Wet Location

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3" Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75" plenums heights
- Emergency Battery options require 5.75" plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25" ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

Tunable White

PERFORMANCE SUMMARY - STATIC WHITE

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

PERFORMANCE SUMMARY - TUNABLE WHITE

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	90
Lumen Series	9208
Source Lumens	1000
Delivered Lumens	780
LED Wattage	9
Lumen Series	9210
Source Lumens	1400
Delivered Lumens	1050
LED Wattage	13
Lumen Series	9214
Source Lumens	1800
Delivered Lumens	1360
LED Wattage	16

Product specifications and dimensions are subject to change without notice

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LIGHTHEADED

AD01C

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Tunable white is only available in remodel driver
13. Tunable white is only available in P, D and DX dimming with two channel control.
14. Remodel driver included with complete trim order.
15. Remote driver included with complete trim order. Wiring between fixture and driver by others.
16. 120 volt is only available in S dimming.
17. UNV volt is only available in P, P1, P0, D, DX & LH dimming.
18. EXT extension option is supplied as a kit.
19. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
20. CL media option is not available with 9510, 2908, 9210 or 9214 lumen series.
21. EM1 battery is only available in Remodel driver option and requires R3P-F-RT-EM1 baseplate.
22. EM1 & EM2 battery are not available in remodel LH dimming.
23. EM1 & EM2 battery are not available in SIC or SCP.
24. EM1 & EM2 battery are not available in tunable white.
25. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
26. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
27. SIC & SCP are available only with 8010, 9008, 8014, 9010, 9208, 9210 and 9510.
28. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
29. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Tunable white is only available in 9208, 9210 and 9214.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash [1, 2, 9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash [1, 2, 9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens [3]
- ☐ **F** Frosted Glass Lens [3]

[4] FLANGE FINISH
- ☐ **WS** White Satin [4, 5]
- ☐ **01** White [6]
- ☐ **04** Black [6]
- ☐ **05** Matte Silver [6]
- ☐ **06** Bronze [6]
- ☐ **11** Matte Nickel [6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange [7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening [8]
- ☐ **GFRO** Frosted [8]
- ☐ **WW** Wall Wash Trim [9]

[7] MODULE & BEAM SPREAD [10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash [9]

[8] COLOR TEMPERATURE
[↓] STATIC WHITE
- ☐ **22** 2200K [11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K

[↓] WARM DIMMING
- ☐ **3018** 3000K–1800K

[↓] TUNABLE WHITE
- ☐ **4018TW** 4000K–1800K [12, 13]
- ☐ **6527TW** 6500K–2700K [12, 13]

[9] LUMEN SERIES
[↓] STATIC WHITE
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm

[↓] WARM DIMMING
- ☐ **9510** 95 CRI, 925lm

[↓] TUNABLE WHITE
- ☐ **9208** 90 CRI, 825lm [12, 13]
- ☐ **9210** 90 CRI, 1150lm [12, 13]
- ☐ **9214** 90 CRI, 1375lm [12, 13]

[10] DIMMING
- ☐ **[blank]** Remodel Driver [14]
- ☐ **RT** Remote Driver [15]

[11] DIMMING
[↓] STATIC WHITE & WARM DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[↓] TUNABLE WHITE
- ☐ **P** 0-10V 2-Channel Control (0.1%)
- ☐ **D** Dali-2 2-Channel Control (0.1%)
- ☐ **DX** DMX 2-Channel Control (0.1%)

[12] VOLTAGE
- ☐ **120** 120V [16]
- ☐ **UNV** 120-277V [17]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0") [18]

[14] OPTIONAL MEDIA (1 MAX) [19]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear [20]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch [21, 22, 23, 24, 25]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover [22, 23, 24, 25]

SELECT A HOUSING

[16] HOUSING [26]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight [23, 27, 28]
- ☐ **SCP** Shallow Chicago Plenum [23, 27, 28]

[18] TRIM SHAPE
- ☐ **R** Round [29]

[19] FLANGE TYPE
- ☐ **T** Trimmed

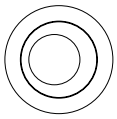
[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch [21]

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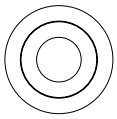
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

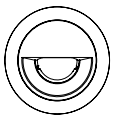
1.35″ [34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

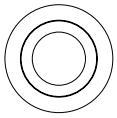
1.35″ [34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

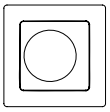
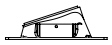
0.81″ [21mm]

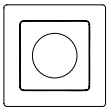
FIXED SHALLOW REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

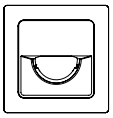
0.95″ [24mm]

SQUARE SINGLE DIMENSIONS

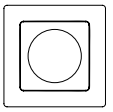

4.25″ [108mm]
2.86″ [73mm]

1.35″ [34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″ [32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

CEILING CUTOUT


Ø 3.875″ [98mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″ [73mm]

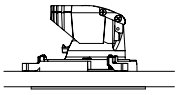
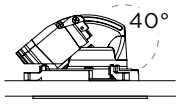
2.39″ [61mm]
0.5″ [13mm] minimum

WALL WASH TRIM

2.89″ [73mm]

2.39″ [61mm]
0.5″ [13mm] minimum

ADJUSTABLE TRIM

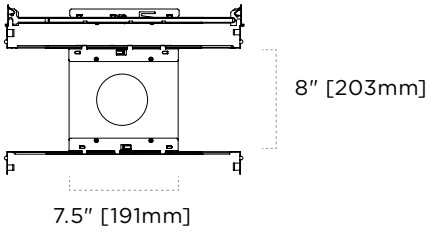

3.2″ [87mm]


2.70″ [69mm]
0.5″ [13mm] minimum

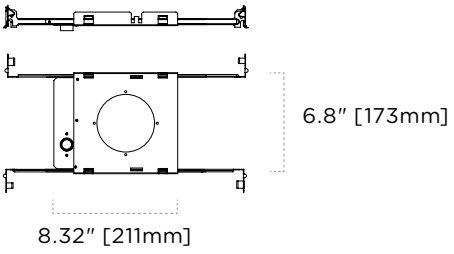
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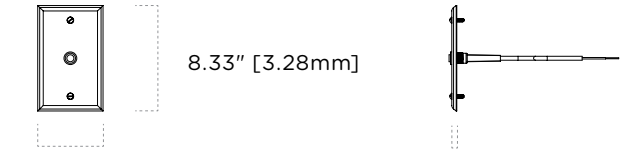
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

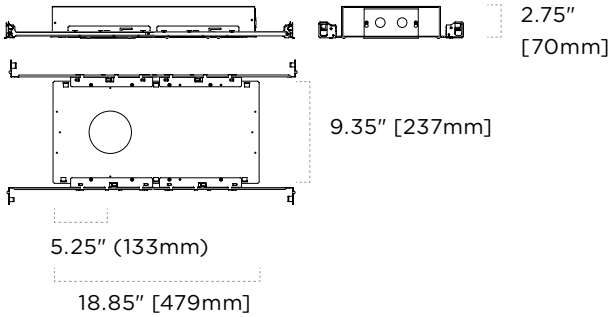


REMOTE TEST COVER DIMENSIONS (EM2)



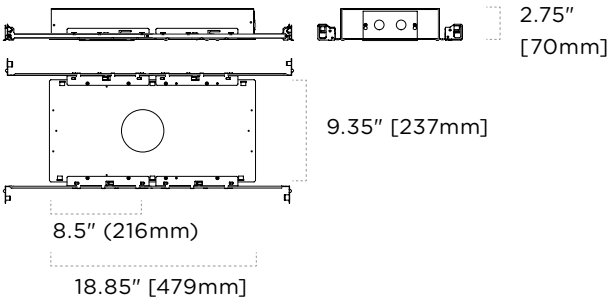
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

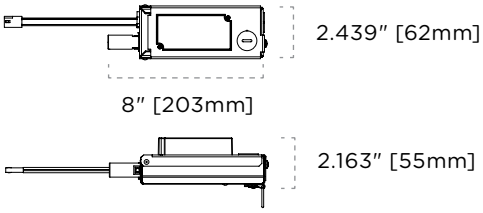


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

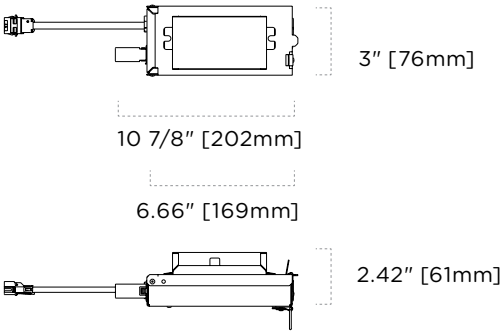


REMODEL DRIVER DIMENSIONS



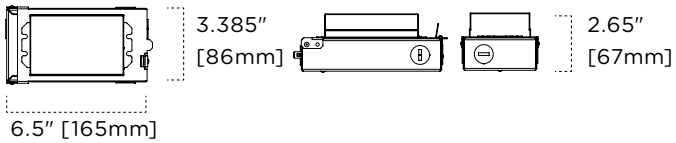
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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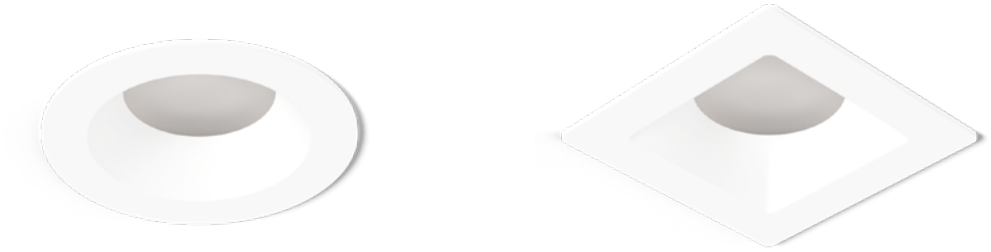
AD02A

Opus Eco™ by Lightheaded

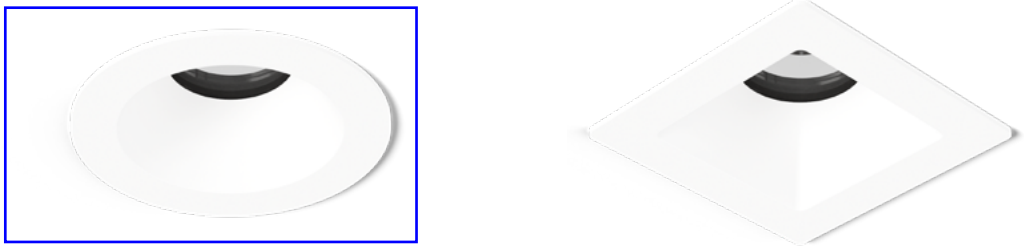
3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

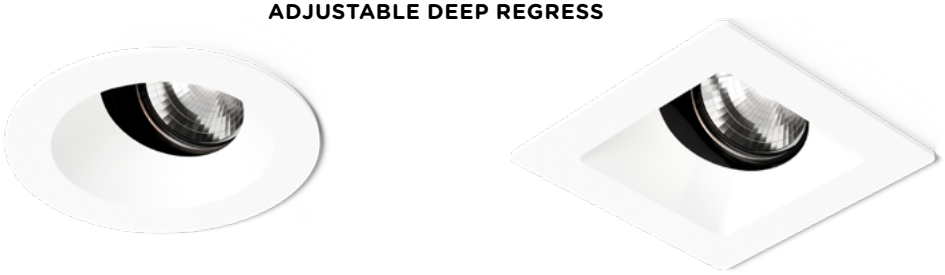
SHALLOW REGRESS



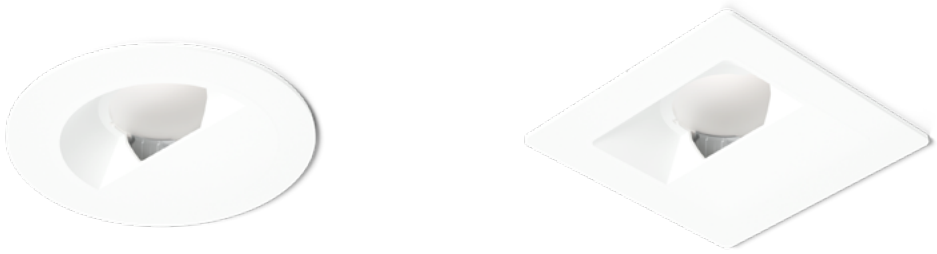
FIXED DEEP REGRESS



ADJUSTABLE DEEP REGRESS



FIXED WALL WASH



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LIGHTHEADED™

AD02A

OPUS ECO

3" | Standard LED

RATINGS

Damp Location

Wet Location

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3" Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75" plenums heights
- Emergency Battery options require 5.75" plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25" ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

Tunable White

PERFORMANCE SUMMARY - STATIC WHITE

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

PERFORMANCE SUMMARY - TUNABLE WHITE

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	90
Lumen Series	9208
Source Lumens	1000
Delivered Lumens	780
LED Wattage	9
Lumen Series	9210
Source Lumens	1400
Delivered Lumens	1050
LED Wattage	13
Lumen Series	9214
Source Lumens	1800
Delivered Lumens	1360
LED Wattage	16

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LIGHTHEADED

AD02A

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Tunable white is only available in remodel driver
13. Tunable white is only available in P, D and DX dimming with two channel control.
14. Remodel driver included with complete trim order.
15. Remote driver included with complete trim order. Wiring between fixture and driver by others.
16. 120 volt is only available in S dimming.
17. UNV volt is only available in P, P1, P0, D, DX & LH dimming.
18. EXT extension option is supplied as a kit.
19. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
20. CL media option is not available with 9510, 2908, 9210 or 9214 lumen series.
21. EM1 battery is only available in Remodel driver option and requires R3P-F-RT-EM1 baseplate.
22. EM1 & EM2 battery are not available in remodel LH dimming.
23. EM1 & EM2 battery are not available in SIC or SCP.
24. EM1 & EM2 battery are not available in tunable white.
25. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
26. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
27. SIC & SCP are available only with 8010, 9008, 8014, 9010, 9208, 9210 and 9510.
28. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
29. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Tunable white is only available in 9208, 9210 and 9214.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash [1, 2, 9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash [1, 2, 9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens [3]
- ☐ **F** Frosted Glass Lens [3]

[4] FLANGE FINISH
- ☐ **WS** White Satin [4, 5]
- ☐ **01** White [6]
- ☐ **04** Black [6]
- ☐ **05** Matte Silver [6]
- ☐ **06** Bronze [6]
- ☐ **11** Matte Nickel [6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange [7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening [8]
- ☐ **GFRO** Frosted [8]
- ☐ **WW** Wall Wash Trim [9]

[7] MODULE & BEAM SPREAD [10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash [9]

[8] COLOR TEMPERATURE
[↓] STATIC WHITE
- ☐ **22** 2200K [11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K

[↓] WARM DIMMING
- ☐ **3018** 3000K–1800K

[↓] TUNABLE WHITE
- ☐ **4018TW** 4000K–1800K [12, 13]
- ☐ **6527TW** 6500K–2700K [12, 13]

[9] LUMEN SERIES
[↓] STATIC WHITE
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm

[↓] WARM DIMMING
- ☐ **9510** 95 CRI, 925lm

[↓] TUNABLE WHITE
- ☐ **9208** 90 CRI, 825lm [12, 13]
- ☐ **9210** 90 CRI, 1150lm [12, 13]
- ☐ **9214** 90 CRI, 1375lm [12, 13]

[10] DIMMING
- ☐ **[blank]** Remodel Driver [14]
- ☐ **RT** Remote Driver [15]

[11] DIMMING
[↓] STATIC WHITE & WARM DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[↓] TUNABLE WHITE
- ☐ **P** 0-10V 2-Channel Control (0.1%)
- ☐ **D** Dali-2 2-Channel Control (0.1%)
- ☐ **DX** DMX 2-Channel Control (0.1%)

[12] VOLTAGE
- ☐ **120** 120V [16]
- ☐ **UNV** 120-277V [17]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0") [18]

[14] OPTIONAL MEDIA (1 MAX) [19]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear [20]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch [21, 22, 23, 24, 25]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover [22, 23, 24, 25]

SELECT A HOUSING

[16] HOUSING [26]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight [23, 27, 28]
- ☐ **SCP** Shallow Chicago Plenum [23, 27, 28]

[18] TRIM SHAPE
- ☐ **R** Round [29]

[19] FLANGE TYPE
- ☐ **T** Trimmed

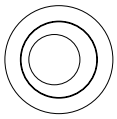
[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch [21]

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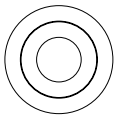
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

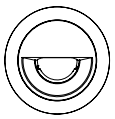
1.35″ [34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

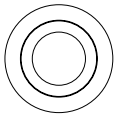
1.35″ [34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

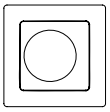
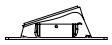
0.81″ [21mm]

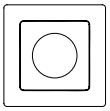
FIXED SHALLOW REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

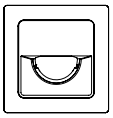
0.95″ [24mm]

SQUARE SINGLE DIMENSIONS

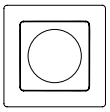

4.25″ [108mm]
2.86″ [73mm]

1.35″ [34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″ [32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

CEILING CUTOUT


Ø 3.875″ [98mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″ [73mm]

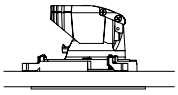
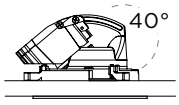
2.39″ [61mm]
0.5″ [13mm] minimum

WALL WASH TRIM

2.89″ [73mm]

2.39″ [61mm]
0.5″ [13mm] minimum

ADJUSTABLE TRIM


3.2″ [87mm]


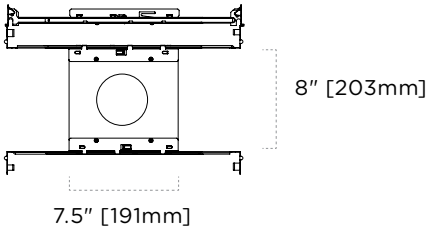
2.70″ [69mm]
0.5″ [13mm] minimum

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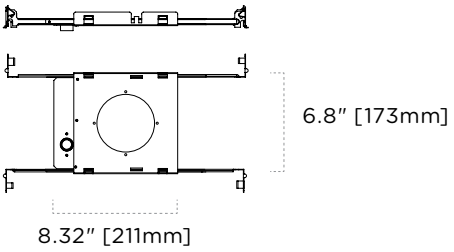
LIGHTHEADED™

AD02A

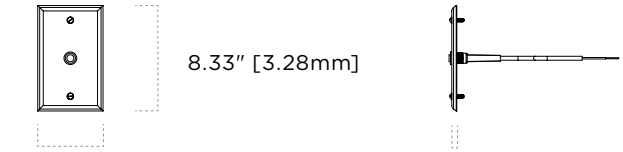
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

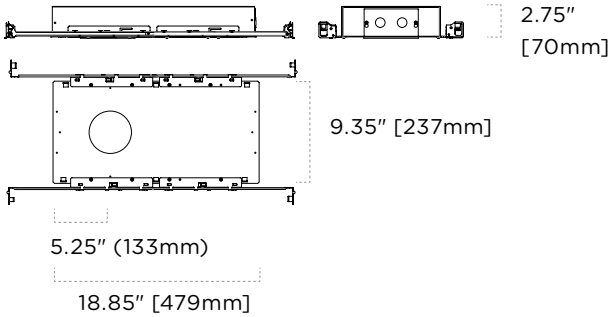


REMOTE TEST COVER DIMENSIONS (EM2)



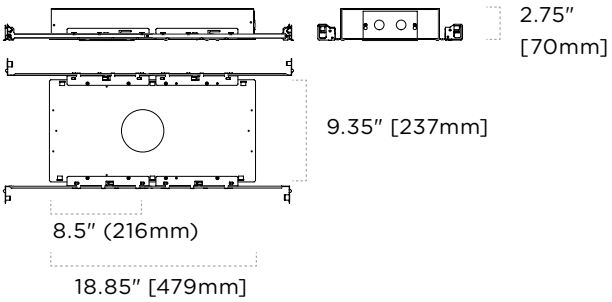
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

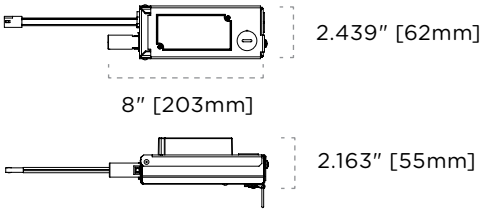


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

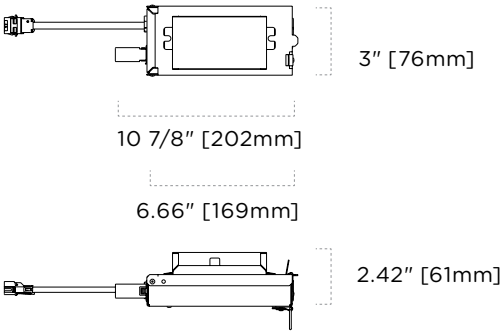


REMODEL DRIVER DIMENSIONS



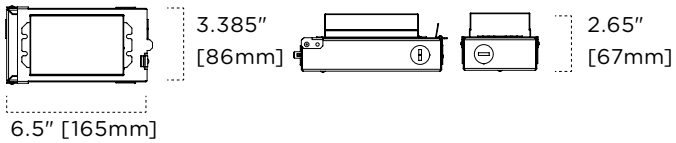
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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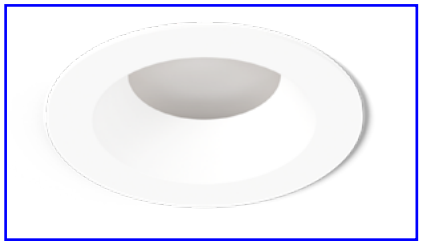
AD02B

Opus Eco™ by Lightheaded

3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

SHALLOW REGRESS



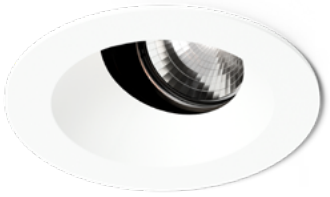


FIXED DEEP REGRESS





ADJUSTABLE DEEP REGRESS





FIXED WALL WASH





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LIGHTHEADED™

AD02B

OPUS ECO

3" | Standard LED

RATINGS

Damp Location

Wet Location

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3" Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75" plenums heights
- Emergency Battery options require 5.75" plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25" ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

Tunable White

PERFORMANCE SUMMARY - STATIC WHITE

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

PERFORMANCE SUMMARY - TUNABLE WHITE

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	90
Lumen Series	9208
Source Lumens	1000
Delivered Lumens	780
LED Wattage	9
Lumen Series	9210
Source Lumens	1400
Delivered Lumens	1050
LED Wattage	13
Lumen Series	9214
Source Lumens	1800
Delivered Lumens	1360
LED Wattage	16

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LIGHTHEADED

AD02B

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Tunable white is only available in remodel driver
13. Tunable white is only available in P, D and DX dimming with two channel control.
14. Remodel driver included with complete trim order.
15. Remote driver included with complete trim order. Wiring between fixture and driver by others.
16. 120 volt is only available in S dimming.
17. UNV volt is only available in P, P1, P0, D, DX & LH dimming.
18. EXT extension option is supplied as a kit.
19. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
20. CL media option is not available with 9510, 2908, 9210 or 9214 lumen series.
21. EM1 battery is only available in Remodel driver option and requires R3P-F-RT-EM1 baseplate.
22. EM1 & EM2 battery are not available in remodel LH dimming.
23. EM1 & EM2 battery are not available in SIC or SCP.
24. EM1 & EM2 battery are not available in tunable white.
25. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
26. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
27. SIC & SCP are available only with 8010, 9008, 8014, 9010, 9208, 9210 and 9510.
28. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
29. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Tunable white is only available in 9208, 9210 and 9214.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash [1, 2, 9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash [1, 2, 9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens [3]
- ☐ **F** Frosted Glass Lens [3]

[4] FLANGE FINISH
- ☐ **WS** White Satin [4, 5]
- ☐ **01** White [6]
- ☐ **04** Black [6]
- ☐ **05** Matte Silver [6]
- ☐ **06** Bronze [6]
- ☐ **11** Matte Nickel [6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange [7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening [8]
- ☐ **GFRO** Frosted [8]
- ☐ **WW** Wall Wash Trim [9]

[7] MODULE & BEAM SPREAD [10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash [9]

[8] COLOR TEMPERATURE
[↓] STATIC WHITE
- ☐ **22** 2200K [11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K

[↓] WARM DIMMING
- ☐ **3018** 3000K–1800K

[↓] TUNABLE WHITE
- ☐ **4018TW** 4000K–1800K [12, 13]
- ☐ **6527TW** 6500K–2700K [12, 13]

[9] LUMEN SERIES
[↓] STATIC WHITE
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm

[↓] WARM DIMMING
- ☐ **9510** 95 CRI, 925lm

[↓] TUNABLE WHITE
- ☐ **9208** 90 CRI, 825lm [12, 13]
- ☐ **9210** 90 CRI, 1150lm [12, 13]
- ☐ **9214** 90 CRI, 1375lm [12, 13]

[10] DIMMING
- ☐ **[blank]** Remodel Driver [14]
- ☐ **RT** Remote Driver [15]

[11] DIMMING
[↓] STATIC WHITE & WARM DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[↓] TUNABLE WHITE
- ☐ **P** 0-10V 2-Channel Control (0.1%)
- ☐ **D** Dali-2 2-Channel Control (0.1%)
- ☐ **DX** DMX 2-Channel Control (0.1%)

[12] VOLTAGE
- ☐ **120** 120V [16]
- ☐ **UNV** 120-277V [17]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0") [18]

[14] OPTIONAL MEDIA (1 MAX) [19]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear [20]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch [21, 22, 23, 24, 25]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover [22, 23, 24, 25]

SELECT A HOUSING

[16] HOUSING [26]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight [23, 27, 28]
- ☐ **SCP** Shallow Chicago Plenum [23, 27, 28]

[18] TRIM SHAPE
- ☐ **R** Round [29]

[19] FLANGE TYPE
- ☐ **T** Trimmed

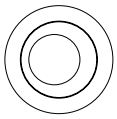
[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch [21]

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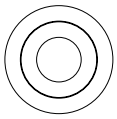
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

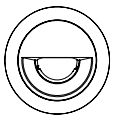
1.35″
[34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

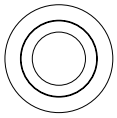
1.35″
[34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

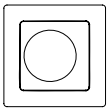
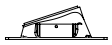
0.81″ [21mm]

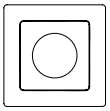
FIXED SHALLOW REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

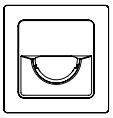
0.95″ [24mm]

SQUARE SINGLE DIMENSIONS

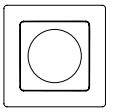

4.25″ [108mm]
2.86″ [73mm]

1.35″
[34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″
[32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

CEILING CUTOUT


Ø 3.875″ [98mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″
[73mm]

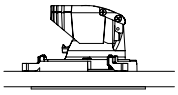
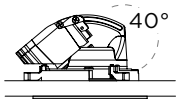
2.39″ [61mm]
0.5″ [13mm]
minimum

WALL WASH TRIM

2.89″
[73mm]

2.39″ [61mm]
0.5″ [13mm]
minimum

ADJUSTABLE TRIM

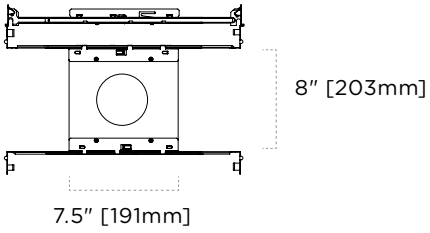

3.2″
[87mm]


2.70″ [69mm]
0.5″ [13mm]
minimum

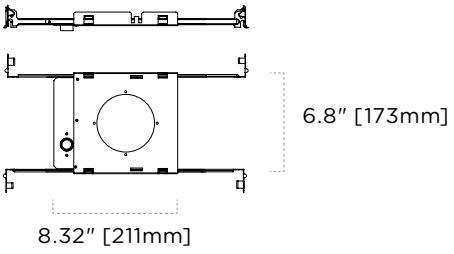
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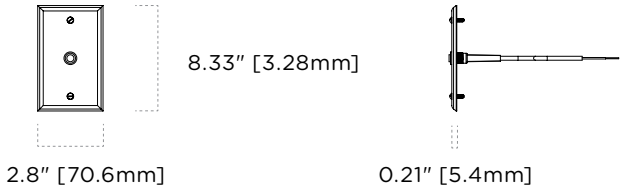
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

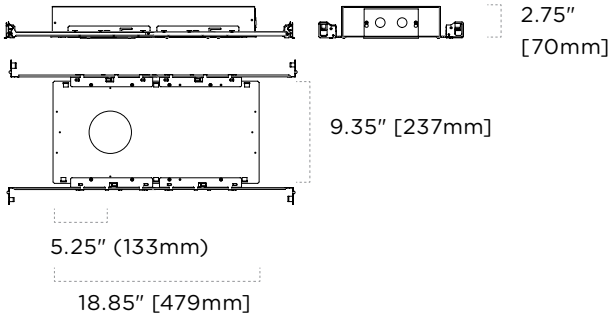


REMOTE TEST COVER DIMENSIONS (EM2)



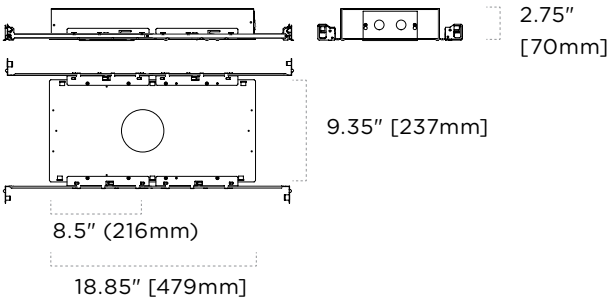
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

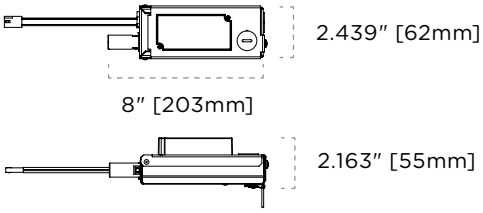


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

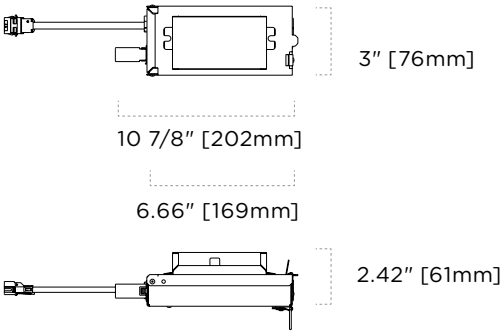


REMODEL DRIVER DIMENSIONS



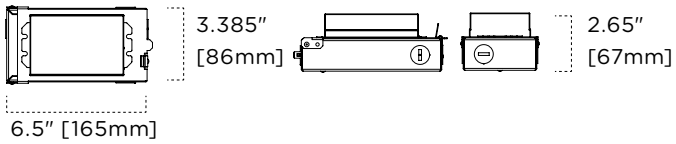
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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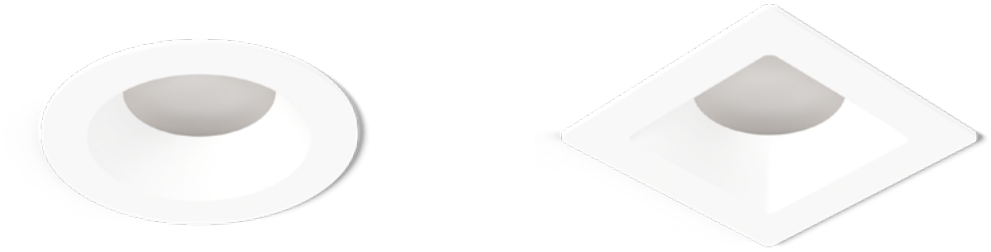
AD02C

Opus Eco™ by Lightheaded

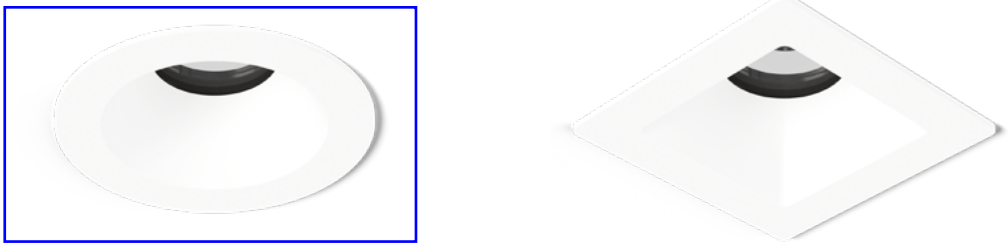
3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

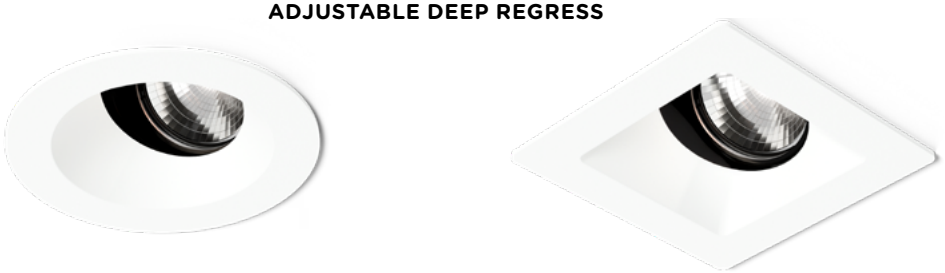
SHALLOW REGRESS



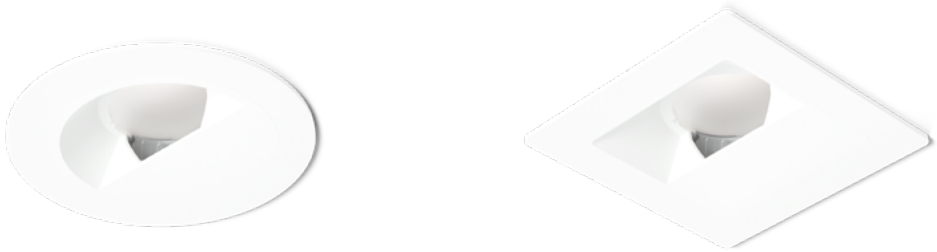
FIXED DEEP REGRESS



ADJUSTABLE DEEP REGRESS



FIXED WALL WASH



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LIGHTHEADED™

AD02C

OPUS ECO

3" | Standard LED

RATINGS

Damp Location

Wet Location

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3" Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75" plenums heights
- Emergency Battery options require 5.75" plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25" ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

Tunable White

PERFORMANCE SUMMARY - STATIC WHITE

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

PERFORMANCE SUMMARY - TUNABLE WHITE

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	90
Lumen Series	9208
Source Lumens	1000
Delivered Lumens	780
LED Wattage	9
Lumen Series	9210
Source Lumens	1400
Delivered Lumens	1050
LED Wattage	13
Lumen Series	9214
Source Lumens	1800
Delivered Lumens	1360
LED Wattage	16

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LIGHTHEADED

AD02C

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Tunable white is only available in remodel driver
13. Tunable white is only available in P, D and DX dimming with two channel control.
14. Remodel driver included with complete trim order.
15. Remote driver included with complete trim order. Wiring between fixture and driver by others.
16. 120 volt is only available in S dimming.
17. UNV volt is only available in P, P1, P0, D, DX & LH dimming.
18. EXT extension option is supplied as a kit.
19. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
20. CL media option is not available with 9510, 2908, 9210 or 9214 lumen series.
21. EM1 battery is only available in Remodel driver option and requires R3P-F-RT-EM1 baseplate.
22. EM1 & EM2 battery are not available in remodel LH dimming.
23. EM1 & EM2 battery are not available in SIC or SCP.
24. EM1 & EM2 battery are not available in tunable white.
25. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
26. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
27. SIC & SCP are available only with 8010, 9008, 8014, 9010, 9208, 9210 and 9510.
28. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
29. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Tunable white is only available in 9208, 9210 and 9214.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash [1, 2, 9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash [1, 2, 9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens [3]
- ☐ **F** Frosted Glass Lens [3]

[4] FLANGE FINISH
- ☐ **WS** White Satin [4, 5]
- ☐ **01** White [6]
- ☐ **04** Black [6]
- ☐ **05** Matte Silver [6]
- ☐ **06** Bronze [6]
- ☐ **11** Matte Nickel [6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange [7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening [8]
- ☐ **GFRO** Frosted [8]
- ☐ **WW** Wall Wash Trim [9]

[7] MODULE & BEAM SPREAD [10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash [9]

[8] COLOR TEMPERATURE
[↓] STATIC WHITE
- ☐ **22** 2200K [11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K

[↓] WARM DIMMING
- ☐ **3018** 3000K–1800K

[↓] TUNABLE WHITE
- ☐ **4018TW** 4000K–1800K [12, 13]
- ☐ **6527TW** 6500K–2700K [12, 13]

[9] LUMEN SERIES
[↓] STATIC WHITE
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm

[↓] WARM DIMMING
- ☐ **9510** 95 CRI, 925lm

[↓] TUNABLE WHITE
- ☐ **9208** 90 CRI, 825lm [12, 13]
- ☐ **9210** 90 CRI, 1150lm [12, 13]
- ☐ **9214** 90 CRI, 1375lm [12, 13]

[10] DIMMING
- ☐ **[blank]** Remodel Driver [14]
- ☐ **RT** Remote Driver [15]

[11] DIMMING
[↓] STATIC WHITE & WARM DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[↓] TUNABLE WHITE
- ☐ **P** 0-10V 2-Channel Control (0.1%)
- ☐ **D** Dali-2 2-Channel Control (0.1%)
- ☐ **DX** DMX 2-Channel Control (0.1%)

[12] VOLTAGE
- ☐ **120** 120V [16]
- ☐ **UNV** 120-277V [17]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0") [18]

[14] OPTIONAL MEDIA (1 MAX) [19]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear [20]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch [21, 22, 23, 24, 25]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover [22, 23, 24, 25]

SELECT A HOUSING

[16] HOUSING [26]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight [23, 27, 28]
- ☐ **SCP** Shallow Chicago Plenum [23, 27, 28]

[18] TRIM SHAPE
- ☐ **R** Round [29]

[19] FLANGE TYPE
- ☐ **T** Trimmed

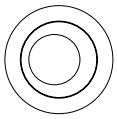
[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch [21]

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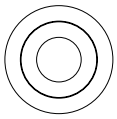
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

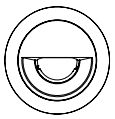
1.35″ [34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

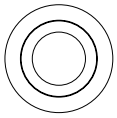
1.35″ [34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

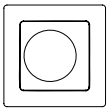
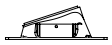
0.81″ [21mm]

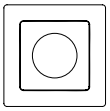
FIXED SHALLOW REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

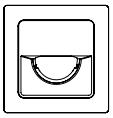
0.95″ [24mm]

SQUARE SINGLE DIMENSIONS

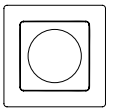

4.25″ [108mm]
2.86″ [73mm]

1.35″ [34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″ [32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

CEILING CUTOUT


Ø 3.875″ [98mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″ [73mm]

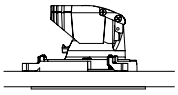
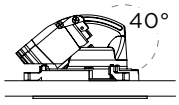
2.39″ [61mm]
0.5″ [13mm] minimum

WALL WASH TRIM

2.89″ [73mm]

2.39″ [61mm]
0.5″ [13mm] minimum

ADJUSTABLE TRIM

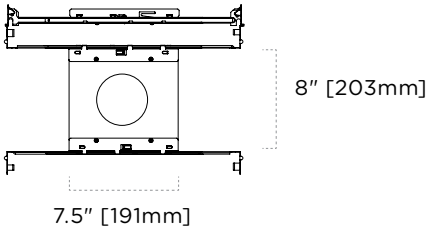

3.2″ [87mm]


2.70″ [69mm]
0.5″ [13mm] minimum

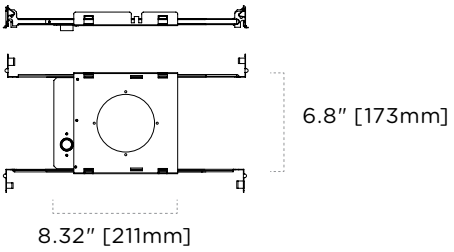
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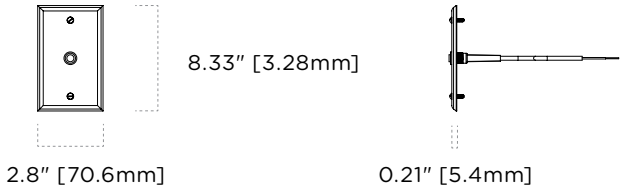
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

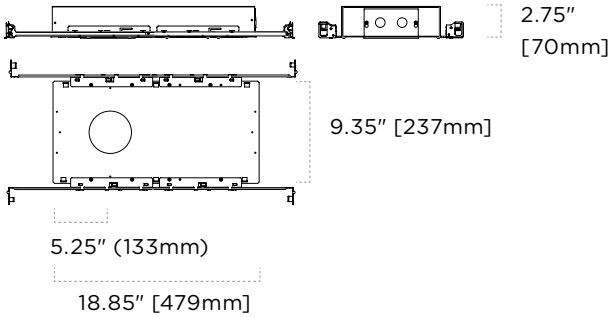


REMOTE TEST COVER DIMENSIONS (EM2)



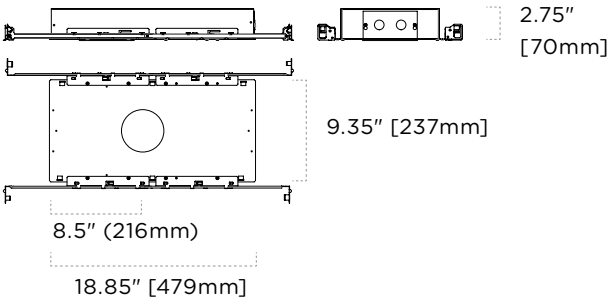
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

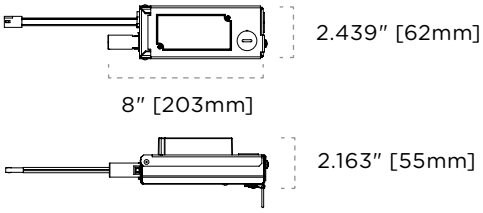


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

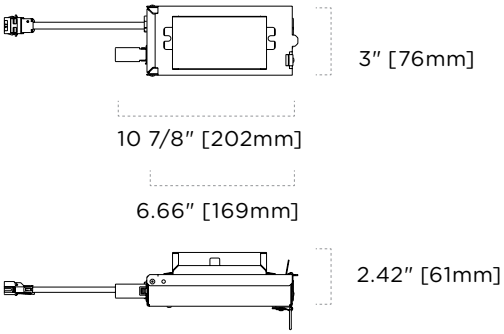


REMODEL DRIVER DIMENSIONS



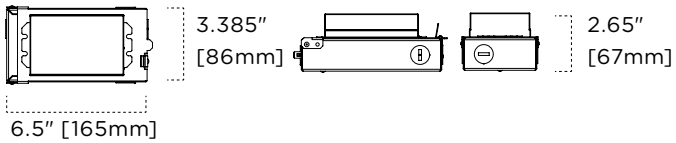
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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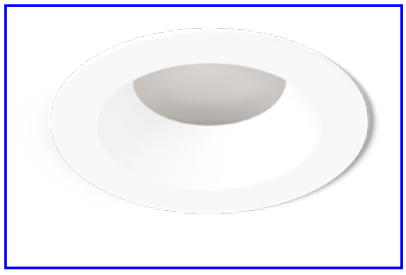
AD04A

Opus Eco™ by Lightheaded

3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

SHALLOW REGRESS



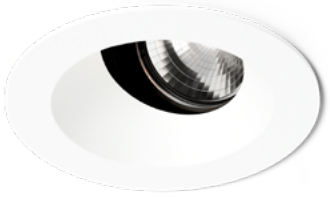


FIXED DEEP REGRESS





ADJUSTABLE DEEP REGRESS





FIXED WALL WASH





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LIGHTHEADED™

AD04A

OPUS ECO

3″ | Standard LED

RATINGS

Damp Location

Wet Location

Warm Dimming

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3″ Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75″ plenums heights
- Emergency Battery options require 5.75″ plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25″ ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White | Black | Bronze | Matte Nickel | Matte Silver

BEAM SPREADS

20° | 30° | 40° | 60° | 70° | 80° | Wall Wash

COLOR TEMPERATURES

2200K | 2700K | 3000K | 3500K | 4000K | Warm Dim

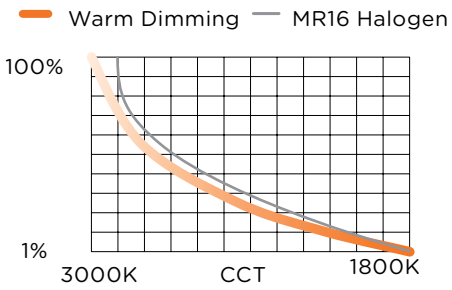
PERFORMANCE SUMMARY

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

WARM DIMMING METRICS



- Source lumens are based on 3000K color temperature.
- Delivered lumens are based on 3000K color temperature, 40° beam angle and clear lens.
- Source and delivered lumens do not apply to 10° beam angle.
- Refer to IES files for individual product information.
- Consult factory for additional lower lumen options.

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LIGHTHEADED™

AD04A

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected Check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Remodel driver included with complete trim order.
13. Remote driver included with complete trim order. Wiring between fixture and driver by others.
14. 120 volt is only available in S dimming.
15. UNV volt is only available in P, P1, P0, D & LH dimming.
16. EXT extension option is supplied as a kit.
17. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
18. CL media option is not available with 9510 lumen series.
19. EM1 battery is only available in Remodel driver option and requires R3P-F-R-T-EM1 baseplate.
20. EM1 & EM2 battery are not available in remodel LH dimming.
21. EM1 & EM2 battery are not available in SIC or SCP.
22. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
23. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
24. SIC & SCP are available only with 8010, 9008, 8014, 9010 and 9510 (Warm Dim).
25. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
26. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash[1,2,9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash[1,2,9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens [3]
- ☐ **F** Frosted Glass Lens [3]

[4] FLANGE FINISH
- ☐ **WS** White Satin[4,5]
- ☐ **01** White[6]
- ☐ **04** Black[6]
- ☐ **05** Matte Silver[6]
- ☐ **06** Bronze[6]
- ☐ **11** Matte Nickel[6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange[7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening [8]
- ☐ **GFRO** Frosted [8]
- ☐ **WW** Wall Wash Trim[9]

[7] MODULE & BEAM SPREAD[10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash[9]

[8] COLOR TEMPERATURE
- ☐ **22** 2200K[11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K
- ☐ **3018** 3000K–1800K

[9] LUMEN SERIES
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm
- ☐ **9510** 95 CRI, 925lm

[10] DIMMING
- ☐ **[blank]** Remodel Driver[12]
- ☐ **RT** Remote Driver[13]

[11] DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[12] VOLTAGE
- ☐ **120** 120V[14]
- ☐ **UNV** 120-277V[15]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0")[16]

[14] OPTIONAL MEDIA (1 MAX)[17]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear[18]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch[19,20,21,22]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover[20,21,22]

SELECT A HOUSING

[16] HOUSING[23]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight [21,24,25]
- ☐ **SCP** Shallow Chicago Plenum[21,24,25]

[18] TRIM SHAPE
- ☐ **R** Round[26]

[19] FLANGE TYPE
- ☐ **T** Trimmed

[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch[19]

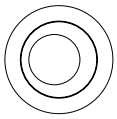
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AD04A

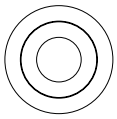
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

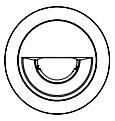
1.35″
[34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

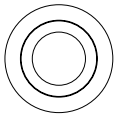
1.35″
[34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

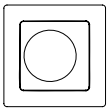
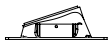
0.81″ [21mm]

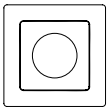
FIXED SHALLOW REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

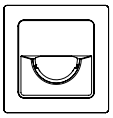
0.95″ [24mm]

SQUARE SINGLE DIMENSIONS

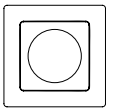

4.25″ [108mm]
2.86″ [73mm]

1.35″
[34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″
[32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

CEILING CUTOUT


Ø 3.875″ [98mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″
[73mm]

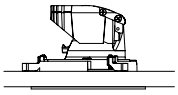
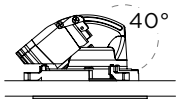
2.39″ [61mm]
0.5″ [13mm]
minimum

WALL WASH TRIM

2.89″
[73mm]

2.39″ [61mm]
0.5″ [13mm]
minimum

ADJUSTABLE TRIM

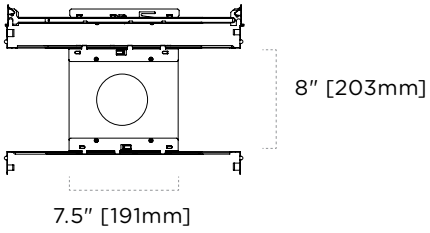

3.2″
[87mm]


2.70″ [69mm]
0.5″ [13mm]
minimum

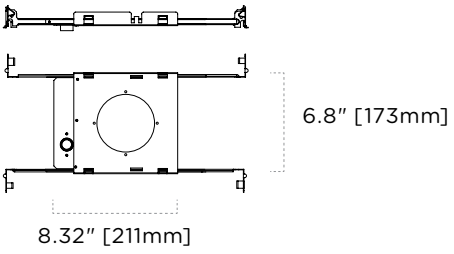
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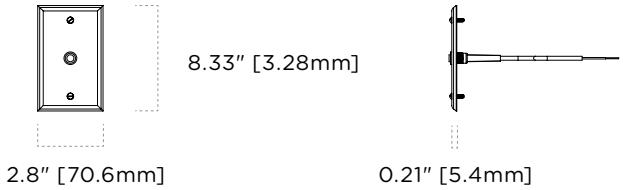
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

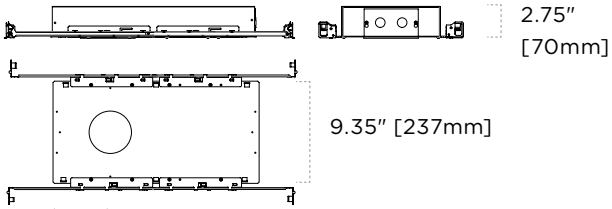


REMOTE TEST COVER DIMENSIONS (EM2)



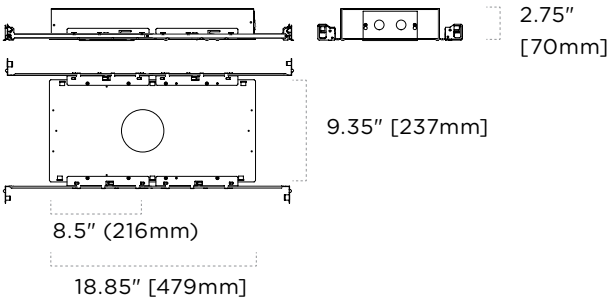
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

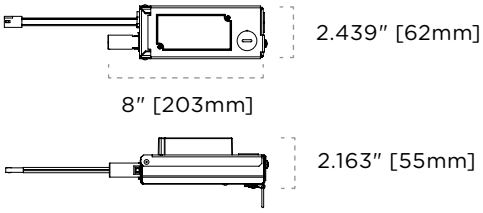


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

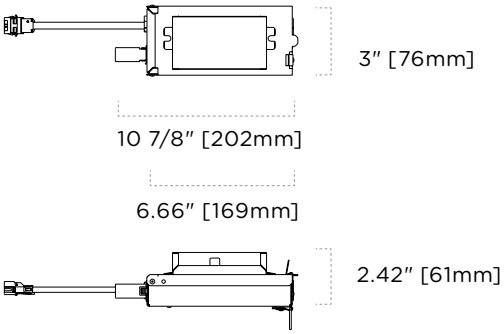


REMODEL DRIVER DIMENSIONS



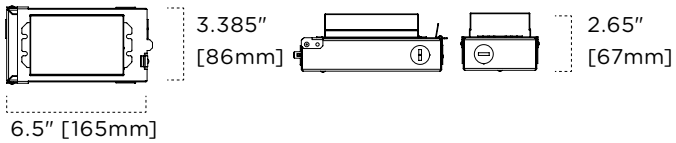
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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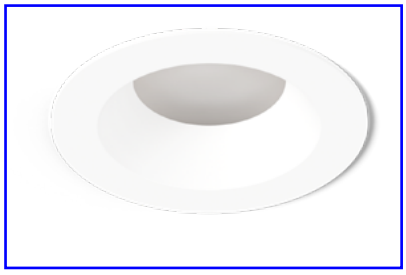
AD04B

Opus Eco™ by Lightheaded

3" | Standard LED

Anything but simple; these streamlined downlights come complete with all the lighting options you'd expect from a Lightheaded product. Don't even think about sacrificing lighting output, warm dimming, or certifications when specifying these simply designed, budget-friendly, luminaires.

SHALLOW REGRESS



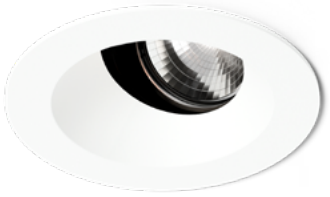


FIXED DEEP REGRESS





ADJUSTABLE DEEP REGRESS





FIXED WALL WASH





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LIGHTHEADED™

AD04B

OPUS ECO

3″ | Standard LED

RATINGS

Damp Location

Wet Location

Warm Dimming

California Title 24 JA8

CERTIFICATIONS

Intertek

5yr. Warranty

FEATURES

- 3″ Aperture
- 40° Vertical tilt (Adjustable trims)
- 361° Rotation (Adjustable trims)
- Suitable for ≥ 2.75″ plenums heights
- Emergency Battery options require 5.75″ plenum
- Emergency Battery option provides 7 watts of emergency power for 90 minutes
- Single piece trims with regressed aperture lens
- Damp location listed (with open trim), wet location with glass lens option
- Dead-front trim when WS option with regressed aperture lens is selected
- UL2043 Rated enclosures suitable for installation in air handling plenums
- Media holder and media available with open trim option.
- Flag style mounting feet, designed for up to 1.25″ ceiling thickness standard, optional thick ceiling kit available
- Anodized black heat sink
- Static CCT and warm dimming available
- Rated for insulated ceilings to a maximum ambient temperature of 40°C (104°F)

FLANGE & REFLECTOR FINISHES

White

Black

Bronze

Matte Nickel

Matte Silver

BEAM SPREADS

20°

30°

40°

60°

70°

80°

Wall Wash

COLOR TEMPERATURES

2200K

2700K

3000K

3500K

4000K

Warm Dim

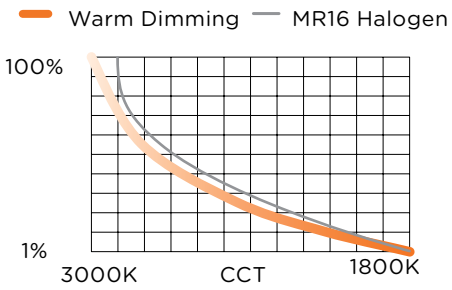
PERFORMANCE SUMMARY

Color Accuracy (SDCM)	<3	
L70 Estimate (h)	50,000	
Color Rendering (CRI)	80	90
Lumen Series	8010	9008
Source Lumens	1250	1050
Delivered Lumens	975	825
LED Wattage	9	9
Lumen Series	8014	9010
Source Lumens	1700	1425
Delivered Lumens	1375	1150
LED Wattage	13	13
Lumen Series	8018	9014
Source Lumens	2275	1925
Delivered Lumens	1875	1575
LED Wattage	18	18

PERFORMANCE SUMMARY—WARM DIMMING

Color Accuracy (SDCM)	<3
L70 Estimate (h)	50,000
Color Rendering (CRI)	95
Lumen Series	9510
Source Lumens	1000
Delivered Lumens	925
LED Wattage	15

WARM DIMMING METRICS



- Source lumens are based on 3000K color temperature.
- Delivered lumens are based on 3000K color temperature, 40° beam angle and clear lens.
- Source and delivered lumens do not apply to 10° beam angle.
- Refer to IES files for individual product information.
- Consult factory for additional lower lumen options.

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LIGHTHEADED™

AD04B

OPUS ECO

3" | Standard LED | Trimmed | Order Form

One driver per lamp

PRODUCT NOTES:

1. E3RWW, E3SWW are not available with WS white satin trim.
2. E3RWW, E3SWW wall wash aperture finish is same as flange finish.
3. CL & F flush mounted glass is only available with YA and YF shallow regress trims and OPEN regress mounted glass option.
4. WS is one piece satin white polycarbonate trim. Only available on deep regress trims.
5. Dead-Front Trim when WS finish and GSL or GFRO glass options are selected Check with local codes for compliance.
6. 01, 04, 05, 06, 11 are one piece powder coated aluminum trims.
7. 00 Flange and reflector are a single piece. RWW & SWW trims are two-piece construction.
8. GSL & GFRO lens are attached to the regressed trim aperture and are wet location listed when selected.
9. E3RWW and E3SWW wall wash trims must be ordered together with WW glass and BWW module beam spread.
10. Field interchangeable beam spread options require consultation with Lightheaded personnel.
11. 2200K is only available in 90 CRI.
12. Remodel driver included with complete trim order.
13. Remote driver included with complete trim order. Wiring between fixture and driver by others.
14. 120 volt is only available in S dimming.
15. UNV volt is only available in P, P1, P0, D & LH dimming.
16. EXT extension option is supplied as a kit.
17. Optional Media comes with media holder. Only available with OPEN regress mounted glass option.
18. CL media option is not available with 9510 lumen series.
19. EM1 battery is only available in Remodel driver option and requires R3P-F-R-T-EM1 baseplate.
20. EM1 & EM2 battery are not available in remodel LH dimming.
21. EM1 & EM2 battery are not available in SIC or SCP.
22. EM1 & EM2 provide 7 watts of emergency power for a minimum of 90 minutes.
23. Housing can be ordered and shipped prior to luminaire. See additional plenum requirements on dimensional data page.
24. SIC & SCP are available only with 8010, 9008, 8014, 9010 and 9510 (Warm Dim).
25. SIC & SCP are UL2043 rated enclosures suitable for installation in air handling plenums.
26. Round & Square trim types utilize the same ceiling cutout shape.
Wet Location.
3000K–1800K Warm Dimming only available in 9510.
Title 24 JA8 qualified, consult factory for complete listing.

SELECT A TRIM

[1] TRIM
- ☐ **E3RA** Round Adjustable Deep Regress
- ☐ **E3RYA** Round Adjustable Shallow Regress
- ☐ **E3RF** Round Fixed Deep Regress
- ☐ **E3RYF** Round Fixed Shallow Regress
- ☐ **E3RWW** Round Fixed Wall Wash[1,2,9]
- ☐ **E3SA** Square Adjustable Deep Regress
- ☐ **E3SYA** Square Adjustable Shallow Regress
- ☐ **E3SF** Square Fixed Deep Regress
- ☐ **E3SYF** Square Fixed Shallow Regress
- ☐ **E3SWW** Square Fixed Wall Wash[1,2,9]

[2] FLANGE TYPE
- ☐ **T** Trimmed

[3] FLUSH MOUNTED GLASS
- ☐ **[blank]** no lens
- ☐ **CL** Clear Glass Lens [3]
- ☐ **F** Frosted Glass Lens [3]

[4] FLANGE FINISH
- ☐ **WS** White Satin[4,5]
- ☐ **01** White[6]
- ☐ **04** Black[6]
- ☐ **05** Matte Silver[6]
- ☐ **06** Bronze[6]
- ☐ **11** Matte Nickel[6]

[5] REFLECTOR FINISH
- ☐ **00** Single Piece Flange[7]

[6] REGRESS MOUNTED GLASS
- ☐ **OPEN** No Lens
- ☐ **GSL** Softening [8]
- ☐ **GFRO** Frosted [8]
- ☐ **WW** Wall Wash Trim[9]

[7] MODULE & BEAM SPREAD[10]
- ☐ **B20** 20° Beam
- ☐ **B30** 30° Beam
- ☐ **B40** 40° Beam
- ☐ **B60** 60° Beam
- ☐ **B70** 70° Beam
- ☐ **B80** 80° Beam
- ☐ **BWW** Wall Wash[9]

[8] COLOR TEMPERATURE
- ☐ **22** 2200K[11]
- ☐ **27** 2700K
- ☐ **30** 3000K
- ☐ **35** 3500K
- ☐ **40** 4000K
- ☐ **3018** 3000K–1800K

[9] LUMEN SERIES
- ☐ **8010** 80 CRI, 975lm
- ☐ **9008** 90 CRI,825lm
- ☐ **8014** 80 CRI, 1375lm
- ☐ **9010** 90 CRI, 1150lm
- ☐ **8018** 80 CRI, 1875lm
- ☐ **9014** 90 CRI, 1575lm
- ☐ **9510** 95 CRI, 925lm

[10] DIMMING
- ☐ **[blank]** Remodel Driver[12]
- ☐ **RT** Remote Driver[13]

[11] DIMMING
- ☐ **S** Phase Dimming (1%)
- ☐ **P** 0-10V (1%)
- ☐ **P1** 0-10V eldoLED ECOdrive (1%)
- ☐ **P0** 0-10V eldoLED SOLOdrive (0.1%)
- ☐ **D** Dali-2 eldoLED ECOdrive (1%)
- ☐ **LH** Lutron Hi-lume EcoSystem Soft-on Fade-to-Black (0.1%)

[12] VOLTAGE
- ☐ **120** 120V[14]
- ☐ **UNV** 120-277V[15]

[13] OPTIONS
- ☐ **EXT** Thick Ceiling (1.25" - 2.0")[16]

[14] OPTIONAL MEDIA (1 MAX)[17]
[↓] MOUNTED TO LIGHT ENGINE
- ☐ **CL** Clear[18]
- ☐ **SL** Softening
- ☐ **FRO** Frosted
- ☐ **HC** Honeycomb
- ☐ **SPDL** Spread
- ☐ **EL** Elongating

[15] OPTIONAL EMERGENCY
- ☐ **EM1** 7 Watt EM Battery w / integral test switch[19, 20, 21, 22]
- ☐ **EM2** 7 Watt EM Battery w / remote test switch and cover[20, 21, 22]

SELECT A HOUSING

[16] HOUSING[23]
- ☐ **R3P** 3" Baseplate

[17] CEILING
- ☐ **F** Non-Insulated
- ☐ **SIC** Shallow Insulated Airtight [21, 24, 25]
- ☐ **SCP** Shallow Chicago Plenum[21, 24, 25]

[18] TRIM SHAPE
- ☐ **R** Round[26]

[19] FLANGE TYPE
- ☐ **T** Trimmed

[20] OPTIONAL EMERGENCY
- ☐ **EM1** EM Battery tests switch[19]

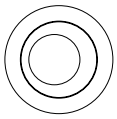
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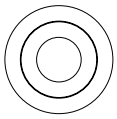
ROUND SINGLE DIMENSIONS

ADJUSTABLE DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

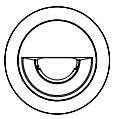
1.35″ [34mm]

FIXED DEEP REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

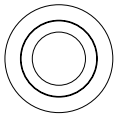
1.35″ [34mm]

FIXED WALL WASH


Ø 4.50″ [114mm]
Ø 3.35″ [85mm]

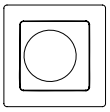
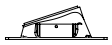
0.81″ [21mm]

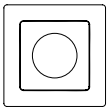
FIXED SHALLOW REGRESS


Ø 4.50″ [114mm]
Ø 3.15″ [80mm]

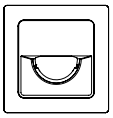
0.95″ [24mm]

SQUARE SINGLE DIMENSIONS

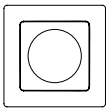

4.25″ [108mm]
2.86″ [73mm]

1.35″ [34mm]


4.25″ [108mm]
2.9″ [74mm]

1.26″ [32mm]


Ø 4.25″ [108mm]
Ø 3.04″ [77mm]

0.81″ [21mm]


4.25″ [108mm]
2.9″ [74mm]

0.95″ [24mm]

CEILING CUTOUT


Ø 3.875″ [98mm]

LIGHT ENGINE DIMENSIONS

FIXED TRIM

2.89″ [73mm]

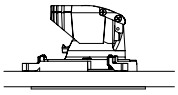
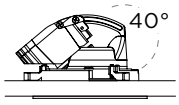
2.39″ [61mm]
0.5″ [13mm] minimum

WALL WASH TRIM

2.89″ [73mm]

2.39″ [61mm]
0.5″ [13mm] minimum

ADJUSTABLE TRIM


3.2″ [87mm]


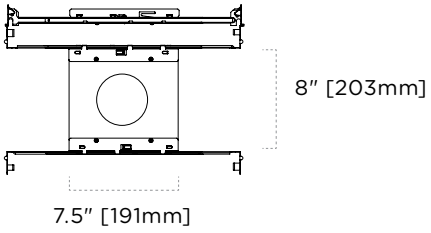
2.70″ [69mm]
0.5″ [13mm] minimum

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info@lightheadedlighting.com **P.** 604.464.5644 **T.** 1.800.464.9544

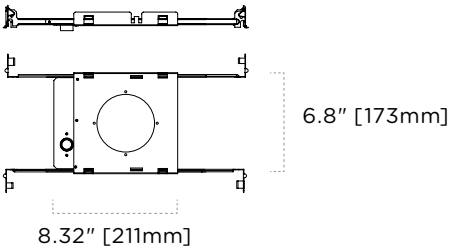
LIGHTHEADED™

AD04B

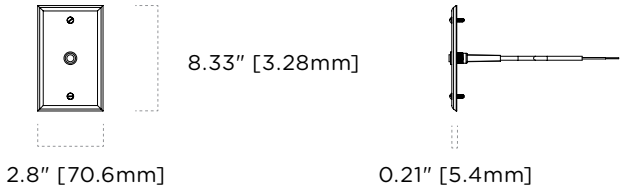
NON-INSULATED (F) HOUSING DIMENSIONS



NON-INSULATED (F) HOUSING DIMENSIONS (EM1)

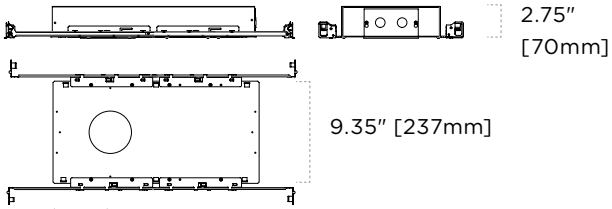


REMOTE TEST COVER DIMENSIONS (EM2)



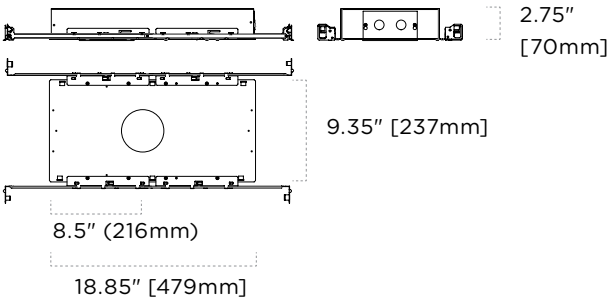
SHALLOW INSULATED AIRTIGHT (SIC) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

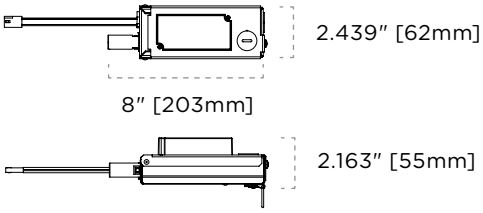


CHICAGO PLENUM (SCP) HOUSING DIMENSIONS

*Suitable for installation in 0.5" [13mm] to 1.0" [25mm] ceiling thicknesses.

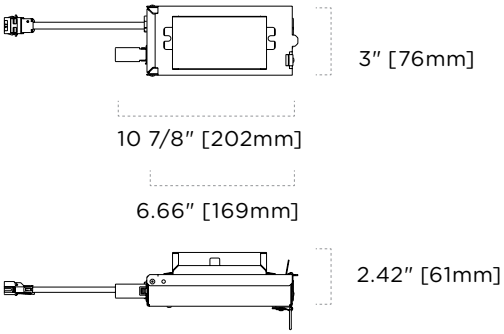


REMODEL DRIVER DIMENSIONS



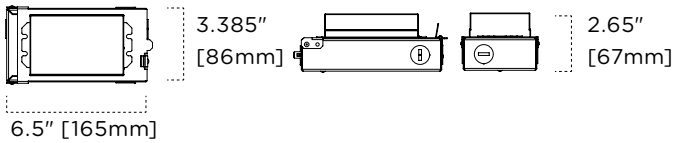
*Minimum Required Plenum Height 2.75" [70mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMODEL DRIVER (EM) DIMENSIONS



*Minimum Required Plenum Height 5.75" [147mm] for 0.5" [13mm] to 1.0" [25mm] thick ceilings.

REMOTE DRIVER DIMENSIONS



*Maximum remote mounting distance (Wire length).

1. LH : 100' using 12 AWG, 50' using 14 AWG.

2. P, P1, P0, D, S : 100' using 14 AWG, 50' using 16 AWG.

3. Remote driver included in trim part number.

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LIGHTHEADED™

Beam 3 | Surface mount



Flush Spotless Lens - down



Glo Lens down



StepLens 1.25 - down

Project _____

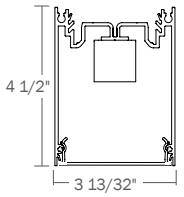
Type _____

Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1100 lm/ft	8.8 W/ft	125 lm/W	SO
1100 lm/ft	9.7 W/ft	114 lm/W	UB
1100 lm/ft	8.6 W/ft	128 lm/W	0.25G
1100 lm/ft	8.4 W/ft	131 lm/W	1.25M
1100 lm/ft	9.1 W/ft	122 lm/W	BW
1000 lm/ft	9.5 W/ft	112 lm/W	NW
1000 lm/ft	9.4 W/ft	113 lm/W	ASO
1000 lm/ft	9.4 W/ft	113 lm/W	WW
1000 lm/ft	9.3 W/ft	114 lm/W	GZ

Please consult factory for custom lumen output and wattage.





Declare.

Axitune Tunable White | PoE | bios ILLUMINATED | Control Sensors | cULus Listed | LIFT BOARD & SENSOR 5 YEAR WARRANTY

Ordering Guide

TB3SLED

PRODUCT ID		NOM. LUM/FT DOWN		CRI		COLOR TEMP. (choose one)				SHIELDING	
TB3SLED	BEAM3 - Surface LED	**300**	300 lm/ft - **min**	**80**	80 CRI	**27**	2700 K	**TW2750**	2700-5000 K - Tunable White	**SO**	spotless lens
		1000	1000 lm/ft - **max for GZ, NW, WW, ASO.***	**90**	90 CRI*	**30**	3000 K	**TW2765**	2700-6500 K - Tunable White	**ASO**	asymmetric, flush only
		1100	1100 lm/ft - **max**			**35**	3500 K	**BTW3527**	3500-2700 K - Tunable BIOS	**0.25G**	0.25" Glo lens
		500	500 lm/ft			**40**	4000 K	**BTW4027**	4000-2700 K - Tunable BIOS	**1.25M**	StepLens , lum. end cap
						B30	3000 K - BIOS*			**UB**	Ultra blend lens (Flush only)*
						B35	3500 K - BIOS*			**BW**	batwing, flush only
						B40	4000 K - BIOS*			**NW**	narrow, flush only
										GZ	graze, flush only
										WW	wallwash, flush only
		Outputs between listed min and max are available. * 1000 lm/ft max. only for GZ, NW, WW and ASO. Consult factory for outputs outside of the listed range. Consult factory for max output with BIOS		* Not available with BIOS.		Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology				Choose only one of the options above; SurroundLite not available with direct * Default lens for Tunable white and BIOS. Consult factory for other lens.	

LENGTH (FT)		MR (OPTIONAL)		FINISH		VOLTAGE		DRIVER		CIRCUITS	
2	2′	**M16LED(#)**	MR16 LED lamp - Line voltage (by other)*	**AP**	aluminum paint	**120**	120 V	**DP**	dimming (0-10V) 1%	**1**	1 circuit
3	3′			**W**	white	**277**	277 V	**LT(#)**	Lutron *	**2**	2 circuits
4	4′	**M16LEDB(#)**	MR16 LED lamp - Dimmable (provided)**	**BLK**	black	**347**	347 V	**BI**	bi-level dimming	**+E(#)**	emergency circuit *
5	5′			**C**	custom	**UNV**	universal	**O(#)**	other **	**+NL(#)**	night light circuit *
8	8′			**Powder coated BLACK**		**DC**	low voltage*	**DPB(STC)**	dimming (0-10V) 1% with BIOS*	**+GTD(#)**	generator
12	12′							**DPB(DYN)**	Bio-dimming™ 100%-81% with BIOS*		transfer device *
S(L)	System Run							**TW(#)**	tunable white drivers*	**+M**	MR
								POE(#)	POE drivers*		
		*Specify quantity; Available with 120V or 277V only; Line wattage only; Seperate circuits included. **Consult factory; See page 4 for more details; Available with UNV, 120V or 277V only; MR16 constant current for 0-10V & DALI only. Available in 3000K or 4000K. Available in luminaires with Axitune and BIOS but downlight will not be tunable white or BIOS LEDs				* Only available with POE drivers.		* See page 2 to specify system ** Please consult factory; see page 2 Consult factory for other control options.		* Specify quantity	

MOUNTING/SUSPENSION		BATTERY (OPTIONAL)		IC CONTROLS (OPTIONAL)		CUSTOM (OPTIONAL)	
SB9	surface TB/TG 9/16	**B(#)**	battery pack (integral)	**DS(#)**	daylight sensor	**C**	custom
SB15	surface TB/TG 15/16			**OS(#)**	occupancy sensor		
SBS	surface screw slot t-bar			**DOS(#)**	daylight & occupancy sensor		
S	surface drywall ceiling			**WC(#)**	wireless control dimming		
SC	surface solid ceiling						
		Minimum 5ft; Not available with 347V Please consult factory		Specify quantity. Requires 8" blank. See integrated controls guide for more details. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.		Please specify	

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Beam 3 | Surface mount

ELECTRICAL

Lutron driver	**LDE1** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**STC** - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. **DYN** - BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™, which changes spectral qualities by removing the SkyBlue component when dimming from 100% to 81%, while light output remains relatively constant; bio-dimming reduces CCT to 2700K. Dimming from 80% to 1% will then reduce light output.
Tunable White TW drivers*	**DALIDT6** - DALI Type 6 (Two DALI Addresses) **DALIDT8** - DALI Type 8 (One DALI Address) **DPTW** - two channel 0-10V dimming: one channel for brightness, one channel for CCT. **LDTW** - Lutron DALI Type 8 (One DALI adress) Tunable White series
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	**MOLEX** **IGOR** **SMARTENGINE** **O** - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV, DC.
Flex Whip	Shipped in a separate box for contractors to install

***Choose driver from available options.**

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

SYSTEM (S#)

BEAM 3 linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs.
Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM 3 that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination of 4', 8' and/or 12' sections to be assembled on site using our joining system. System runs with SurroundLite available in 1' increments only. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ BIOS Tunable White (BTW) Choice of 4000-2700K and 3500-2700K; does not use a bio-dimmer, it uses TW drivers, which allow independent control of CCT and intensity; e.g., BTW4027 provides combined SkyBlue + white light at 4000K, SkyBlue is removed at 2700K. Light output can be adjusted for each CCT. Consult BIOS guide for more information on BIOS technology.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40^{0}C (32-104F).

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Beam 3 | Surface mount

CONSTRUCTION

Housing	Extruded aluminum (0.075'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (20 gauge)
Reflectors	White powder coated sheet steel (22 gauge)
Lenses	Extruded acrylic (0.070'' nominal)
Hanger	Die cast aluminum
Suspension	Sliding aircraft cable along product length

OPTICS



SO Spotless lens
UB Ultra Blend Lens



0.25G Glo lens



1.25M 1.25" StepLens

ULTRA BLEND LENS
Frosted acrylic snap-in micro lens suitable for Tunable White and BIOS applications.

SPOTLESS LENS
Frosted acrylic snap-in micro lens. Used for SO, ASO, BW, NW, GZ and WW shielding options.

GLO LENS
0.25" frosted acrylic drop lens. Patented design.

STEPLENS
1.25" StepLens, illuminated end cap.

FINISH

Aluminium paint, powder coated and custom finishes are also available.

WEIGHT

Surface 4 ft	12.3 lbs / 5.0 kg
Surface 8 ft	24.6 lbs / 10.1 kg
Surface 12 ft	36.9 lbs / 15.1 kg

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

APPROVALS

Certified to UL and CSA standards
Meets NYC requirements
Meets ADA requirements.
Suitable for damp locations.



Declare.

Beam 3
Axis Lighting

Final Assembly: Montreal, Quebec, Canada
Life Expectancy: 7 Year(s)
End of Life Options: Recyclable (87.5%), Landfill (12.5%)

Ingredients:

Recessed Housing: Aluminum 6063; Aluminum hydroxide; Titanium dioxide; Barium sulfate; 1,3,5-Triglycidyl-s-triazinetrione; **Extruded White Beam:** Aluminum 6063; Petroleum distillates; Titanium dioxide; Xylene; 1,2,4-Trimethylbenzene; 2-Butoxyethanol; 2-Pentanone, 4-hydroxy-4-methyl-; Aromatic 100 (Aromatic naphtha, type 1); Ethanol; Ethylbenzene; n-Butanol; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]; Aluminum hydroxide; Toluene; **Lens:** Polymethyl methacrylate; **Reflector:** Aluminum 5052; Polyester Resin; Titanium dioxide; Calcium Carbonate; 1,3,5-Triglycidyl-s-triazinetrione; **End Plate:** Aluminum; Silicon; Copper; Phenol, polymer with formaldehyde; **Bracket:** Steel manufacture, chemicals; (R)-1-chloro-2,3-epoxypropane; Lycopodium (powder); Pitch, gilsonite; **Cover:** Steel; **Small Hardware:** 18-8 Stainless Steel; **Wire 1:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 2:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 3:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 4:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 5:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **3-Way Connector:** Poly[imino(1,6-dioxo-1,6- hexanediyl)imino-1,6-hexanediyl], iron; Copper; **Flange Cap:** Polyvinyl chloride

Living Building Challenge Criteria:

I-13 Red List:
☐ LBC Red List Free
☐ LBC Red List Approved
■ Declared
% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Compliant
I-14 Responsible Sourcing: Not Applicable

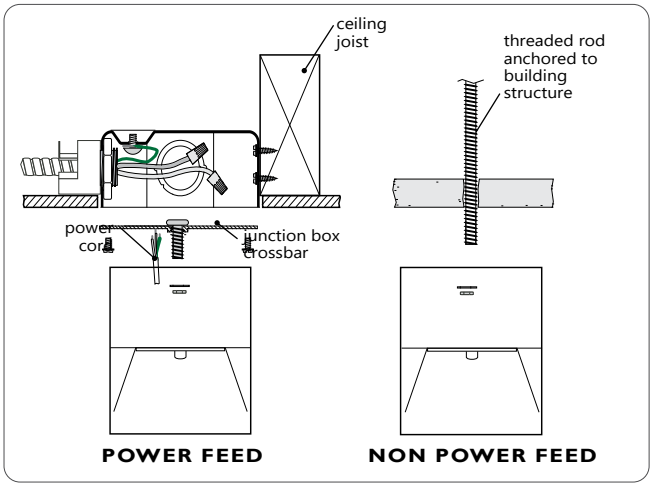
AXS-0001
EXP. 01 OCT 2024
Original Issue Date: 2023

INTERNATIONAL LIVING FUTURE INSTITUTE

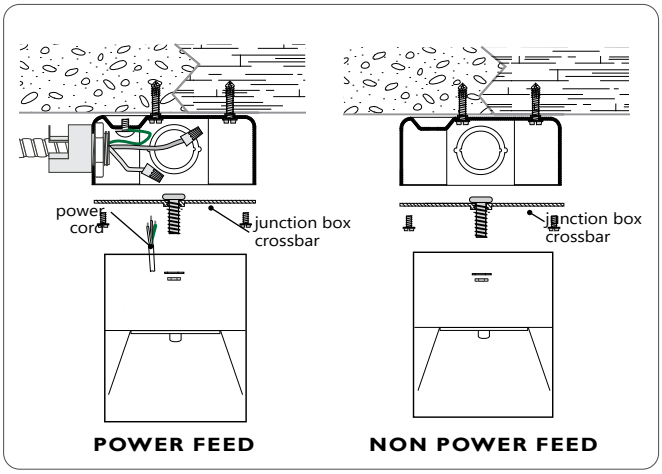
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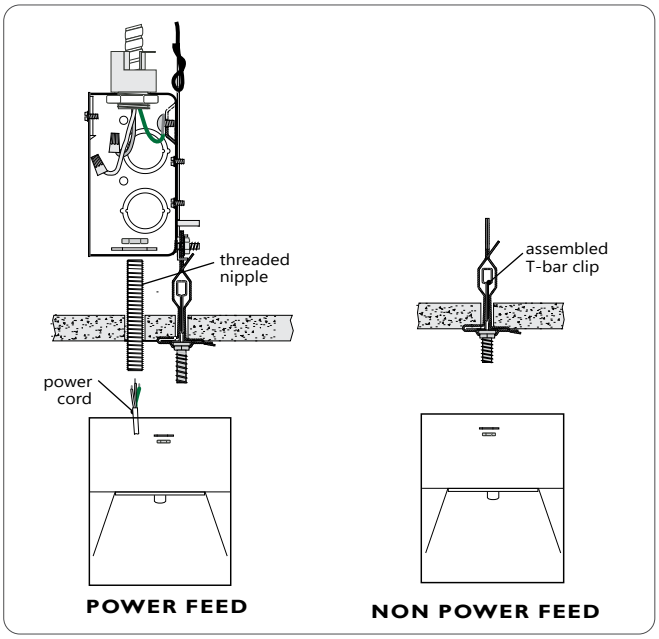
MOUNTING DETAILS



S SURFACE MOUNT DRYWALL CEILING



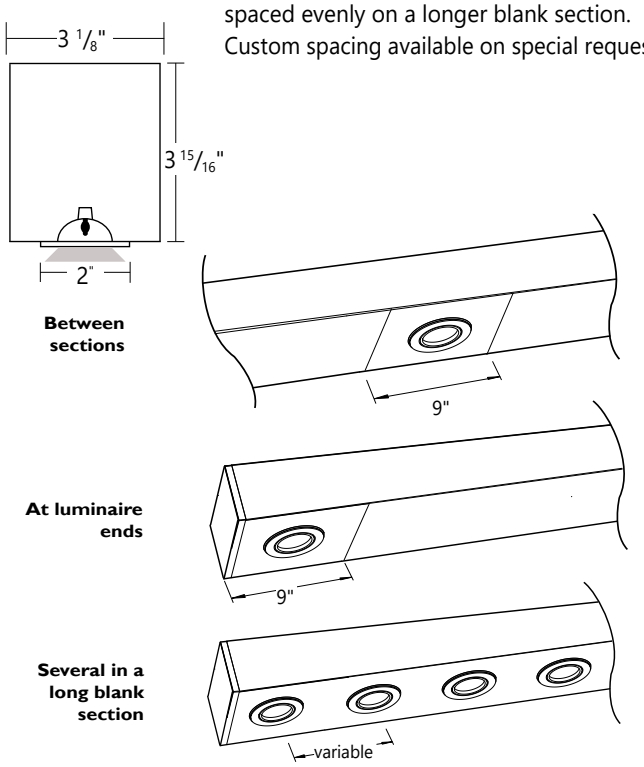
SC SURFACE MOUNT SOLID CEILING



SB9 **SB15** **SBS** SURFACE MOUNT T-BAR CEILING

MR16 LED LAMPS

Blank	Extruded aluminum (0.075'' nominal)
MR16 LED	Adjustable LED lamp (provided)
MR16 LEDB	Constant current LED lamp (provided)- Dimmable by control system for 0-10V & DALI only
Quantity	For every 4' section, there may be up to a maximum of 4 x MR16 LED lamps.
Spacing	Each MR16 is placed centered on a blank section 9" in length. Within a given section length, a series of downlights will be spaced evenly on a longer blank section. Custom spacing available on special request.



Base Type	GU 5.3
Beam Angle	40 nominal degrees
Input Watts	6W
Nominal Lumens	300 lumens
Efficacy	50 lumens per watt
Color Rendering Index (CRI)	85
Center Beam Candle Power (CBCP)	584 candelas
Life	25,000 hours at L_{70}
Correlated color temperature (CCT)	3000K, 4000K
Adjustability	15º tilt

More options are available upon request. Please consult factory.

OTHER MOUNTING OPTIONS

BEAM 3 SurroundLite is also available with wall mounted option.

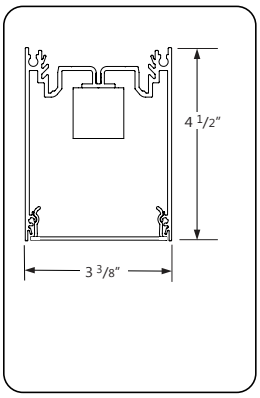
Specification sheets and installation sheets for all mountings for BEAM 3 SurroundLite luminaires are available for download at www.axislighting.com

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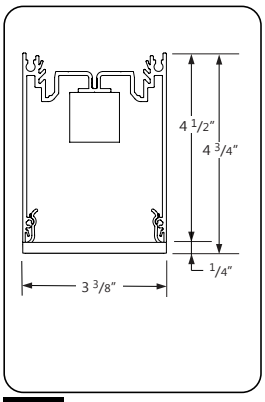
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Beam 3 | Surface mount

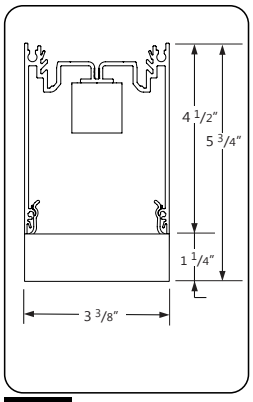
SECTION VIEWS



SO Spotless lens
ASO Asymm. lens
NW Narrow lens
GZ Graze lens
WW Wallwash lens
UB Ultra Bend lens
BW Batwing lens



0.25G 0.25" Glo lens - Direct



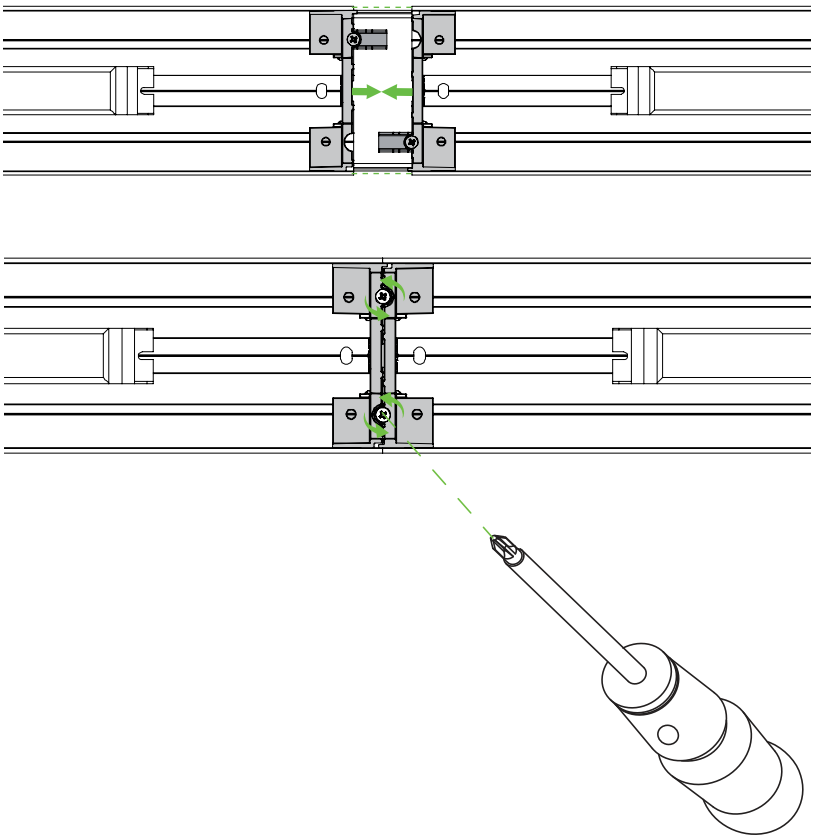
1.25M 1.25" StepLens - Direct

JOINERS

BEAM 3 SurroundLite luminaires feature the joining mechanism shown below. This mechanism joins and aligns multiple luminaires to create long continuous runs of light.

NOTE: Mount each system segment individually.

Do not assemble system prior to mounting



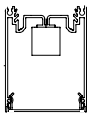
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Beam 3 | Surface mount

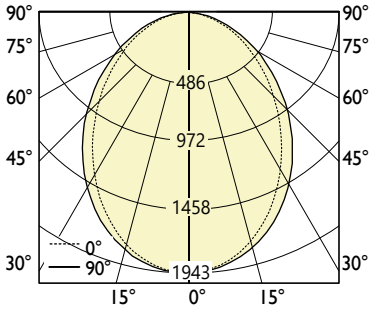
● PHOTOMETRIC DATA

SO Spotless lens

1100 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1942	1942	1942	1942	1942
5	1933	1929	1926	1924	1924
15	1832	1820	1805	1791	1787
25	1637	1619	1583	1550	1541
35	1374	1351	1300	1255	1241
45	1075	1052	1003	951	934
55	777	761	716	672	658
65	501	491	459	427	418
75	263	259	244	227	223
85	80	78	72	66	66
90	9	6	5	4	5

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	182
10-20	507
20-30	726
30-40	810
40-50	768
50-60	634
60-70	448
70-80	250
80-90	74
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	14498	13531	12597
55	12924	11906	10937
65	11296	10353	9428
75	9687	8978	8221
85	8716	7862	7247

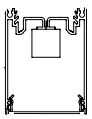
Lumen/ft: 1100 lm/ft
Total Lumens: 4401 lm (for 4ft)
Input Watts: 35.3 W
Efficacy: 125 lm/W

IES FILE: TB3SLED-1100-80-35-SO-4.IES

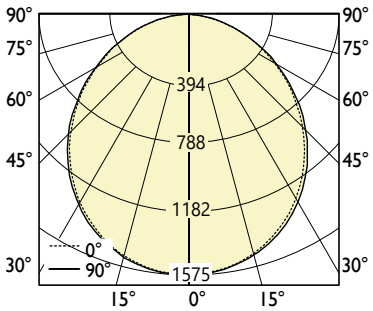
TESTED ACCORDING TO IES LM-79-2008

UB Ultra blend lens

1100 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1575	1575	1575	1575	1575
5	1569	1569	1568	1569	1569
15	1509	1507	1508	1509	1509
25	1392	1392	1392	1392	1391
35	1229	1228	1228	1224	1222
45	1026	1027	1025	1018	1015
55	795	798	794	786	785
65	546	550	547	542	541
75	301	305	307	305	304
85	95	95	94	91	91
90	8	5	4	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	149
10-20	425
20-30	639
30-40	763
40-50	783
50-60	700
60-70	530
70-80	313
80-90	97
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	13834	13823	13691
55	13224	13200	13042
65	12321	12343	12198
75	11079	11301	11216
85	10433	10286	9998

Lumen/ft: 1100 lm/ft
Total Lumens: 4399 lm (for 4ft)
Input Watts: 38.7 W
Efficacy: 114 lm/W

IES FILE: TB3SLED-1100-80-35-UB-4.IES

TESTED ACCORDING TO IES LM-79-2008

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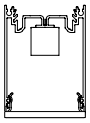
axis lighting.com

Beam 3 | Surface mount

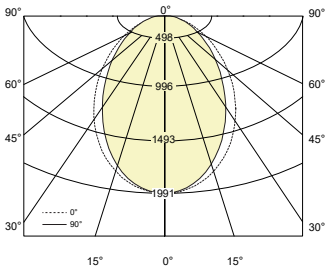
PHOTOMETRIC DATA

0.25G 0.25" Glo lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4400 lm (for 4ft)
Input Watts: 34.4 W
Efficacy: 128 lm/W
IES FILE: TB3SLED-1100-80-35-0.25G-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1991	1991	1991	1991	1991
5	1978	1976	1975	1974	1975
15	1873	1862	1844	1825	1824
25	1666	1647	1603	1556	1547
35	1384	1357	1291	1228	1211
45	1066	1037	971	906	890
55	753	732	680	631	619
65	473	462	436	408	403
75	243	246	244	239	241
85	73	85	100	109	115
90	11	27	46	59	65

ZONAL LUMENS

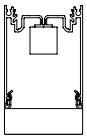
	Lumens
Zone	
0	
0-10	187
10-20	517
20-30	734
30-40	806
40-50	750
50-60	611
60-70	433
70-80	256
80-90	106
90	

LUMINANCE DATA (cd/m²)

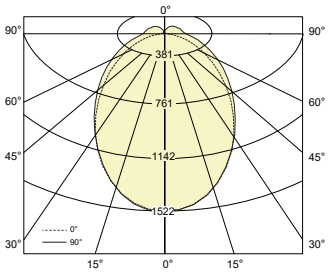
	Horizontal Angles		
Vertical Angle	0	45	90
45	14372	13099	11995
55	12519	11312	10286
65	10664	9831	9091
75	8958	8992	8868
85	7937	10890	12567

1.25M 1.25" Step lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4426 lm (for 4ft)
Input Watts: 33.7 W
Efficacy: 131 lm/W
IES FILE: TB3SLED-1100-80-35-1.25M-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1522	1522	1522	1522	1522
10	1482	1479	1485	1486	1487
30	1161	1174	1174	1164	1160
50	694	727	751	760	761
70	286	337	388	419	427
90	25	83	145	180	187
110	17	58	98	129	140
130	9	40	73	94	103
150	6	24	44	56	62
170	2	8	15	19	21
180	0	0	0	0	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	143
10-20	402
20-30	580
30-40	659
40-50	647
50-60	569
60-70	449
70-80	314
80-90	191
90	
90-100	127
100-110	107
110-120	82
120-130	62
130-140	0
140-150	0
150-160	0
160-170	0
170-180	70
180	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	10929	11514	11535
55	9680	10835	11159
65	8474	10621	11382
75	7563	11618	13117
85	8110	21088	25819

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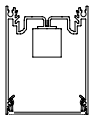
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Beam 3 | Surface mount

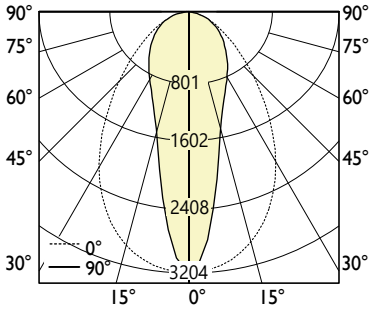
● PHOTOMETRIC DATA

NW Narrow lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4257 lm (for 4ft)
Input Watts: 38 W
Efficacy: 112 lm/W

IES FILE: TB3SLED-1000-80-35-NW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3204	3204	3204	3204	3204
5	3180	3125	2988	2870	2777
15	2952	2577	2046	1760	1649
25	2484	1924	1402	1224	1173
35	1853	1396	1044	958	933
45	1241	994	787	745	737
55	766	674	561	556	559
65	436	410	359	370	377
75	201	194	175	184	188
85	38	37	34	34	29
90	2	1	1	1	2

ZONAL LUMENS

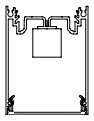
Zone	Lumens
0	
0-10	272
10-20	610
20-30	736
30-40	753
40-50	683
50-60	555
60-70	391
70-80	207
80-90	50
90	

LUMINANCE DATA (cd/m²)

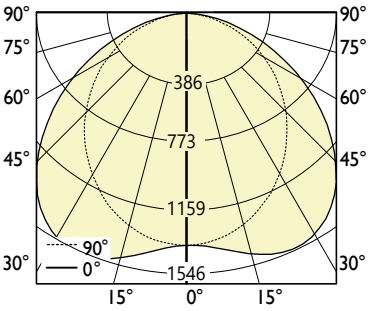
	Horizontal Angles		
Vertical Angle	0	45	90
45	17972	11392	10668
55	13677	10021	9983
65	10567	8693	9148
75	7944	6928	7427
85	4473	3964	3353

BW Batwing lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4399 lm (for 4ft)
Input Watts: 36.2 W
Efficacy: 122 lm/W

IES FILE: TB3DLED-1100-80-35-BW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1399	1399	1399	1399	1399
5	1391	1387	1391	1396	1398
15	1322	1332	1381	1431	1452
25	1195	1233	1351	1458	1499
35	1027	1092	1267	1397	1439
45	836	916	1107	1214	1237
55	634	710	872	937	939
65	425	484	593	613	600
75	223	255	304	298	286
85	49	60	67	61	58
90	4	4	4	4	4

ZONAL LUMENS

Zone	Lumens
0	
0-10	134
10-20	397
20-30	631
30-40	787
40-50	825
50-60	734
60-70	537
70-80	286
80-90	69
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	11273	14924	16678
55	10539	14492	15605
65	9599	13373	13538
75	8222	11204	10524
85	5358	7337	6371

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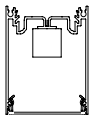
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Beam 3 | Surface mount

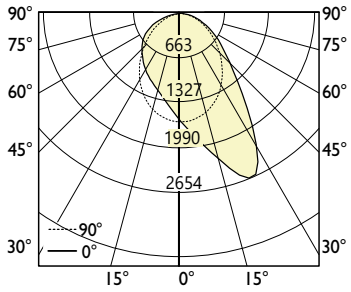
PHOTOMETRIC DATA

WW Wallwash lens

1000 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1699	1699	1699	1699	1699
5	1683	1765	1844	1897	1936
15	1583	1847	2127	2340	2439
25	1391	1839	2351	2578	2553
35	1139	1705	2108	1790	1597
45	868	1384	1406	1068	961
55	609	943	850	663	610
65	381	547	480	389	356
75	186	246	215	177	159
85	37	47	41	34	28
90	2	1	1	1	2

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	162
10-20	481
20-30	751
30-40	829
40-50	748
50-60	599
60-70	416
70-80	219
80-90	55
90	

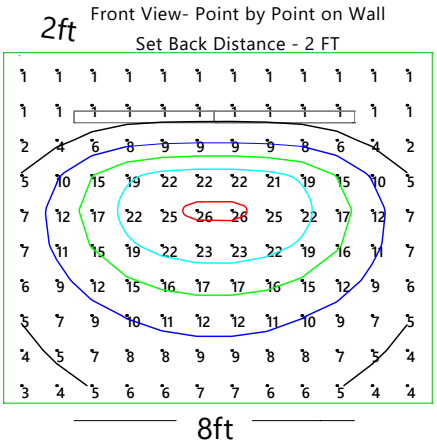
LUMINANCE DATA (cd/m²)

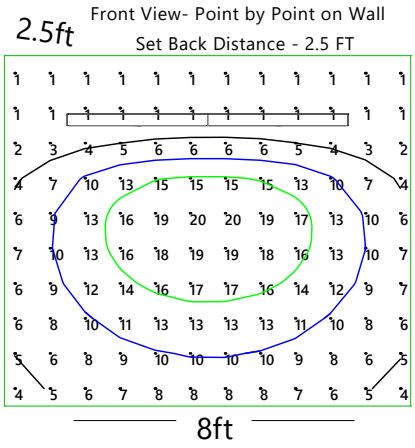
	Horizontal Angles		
Vertical Angle	0	45	90
45	12569	20360	13917
55	10877	15171	10892
65	9224	11630	8628
75	7348	8494	6301
85	4347	4825	3330

Lumen/ft down: 1000 lm/ft
Total Lumens: 4259 lm/4ft)
Input Watts: 37.73 W
Efficacy: 113 lm/W
IES FILE: TB3SLED-1000-80-35-WW-4.IES

TESTED ACCORDING TO IES LM-79-2008







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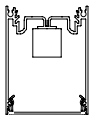
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Beam 3 | Surface mount

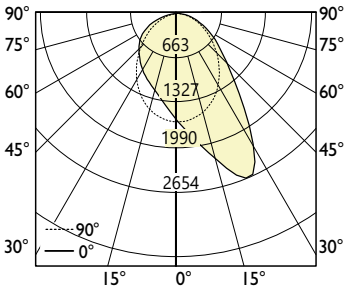
PHOTOMETRIC DATA

ASO Asymmetric lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4259 lm/4ft)
Input Watts: 37.73 W
Efficacy: 113 lm/W
IES FILE: TB3SLED-1000-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1699	1699	1699	1699	1699
5	1683	1765	1844	1897	1936
15	1583	1847	2127	2340	2439
25	1391	1839	2351	2578	2553
35	1139	1705	2108	1790	1597
45	868	1384	1406	1068	961
55	609	943	850	663	610
65	381	547	480	389	356
75	186	246	215	177	159
85	37	47	41	34	28
90	2	1	1	1	2

ZONAL LUMENS

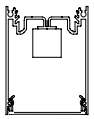
	Lumens
Zone	
0	
0-10	162
10-20	481
20-30	751
30-40	829
40-50	748
50-60	599
60-70	416
70-80	219
80-90	55
90	

LUMINANCE DATA (cd/m²)

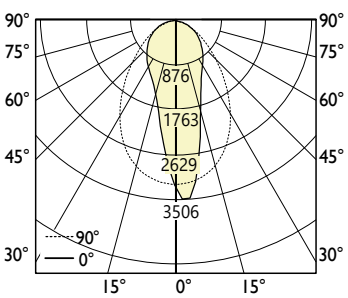
	Horizontal Angles		
Vertical Angle	0	45	90
45	12569	20360	13917
55	10877	15171	10892
65	9224	11630	8628
75	7348	8494	6301
85	4347	4825	3330

GZ Graze lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4246 lm/4ft)
Input Watts: 37.28 W
Efficacy: 114 lm/W
IES FILE: TB3DLED-1000-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3204	3204	3204	3204	3204
5	3173	3405	3506	3502	3474
15	2964	3194	2574	2128	1976
25	2503	2380	1592	1315	1250
35	1857	1633	1109	994	969
45	1219	1095	814	771	764
55	746	707	576	572	576
65	425	421	367	381	392
75	197	200	182	195	203
85	39	41	40	44	42
90	2	3	2	1	1

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	279
10-20	626
20-30	744
30-40	750
40-50	673
50-60	542
60-70	380
70-80	202
80-90	49
90	

LUMINANCE DATA (cd/m²)

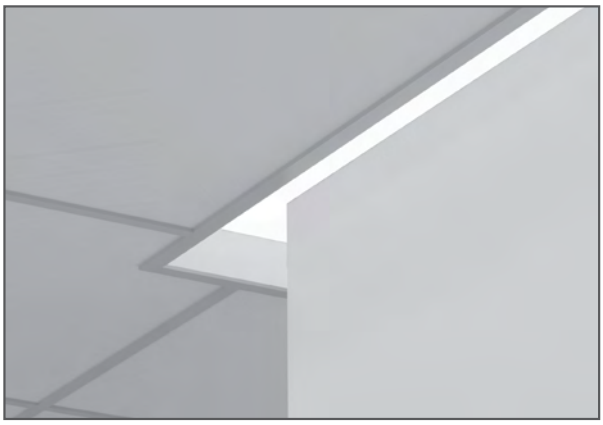
	Horizontal Angles		
Vertical Angle	0	45	90
45	17701	11826	11087
55	13348	10311	10313
65	10329	8924	9521
75	7828	7223	8067
85	4562	4741	4954

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SCULPT | LINEAR PERIMETER - RECESSED

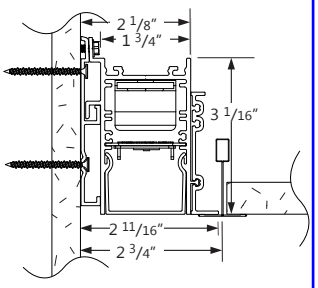


Project _____

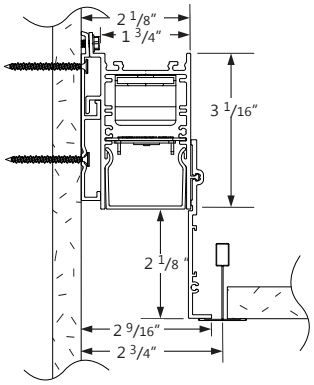
Type _____

Notes _____

Flush



2" Regressed



CCEA APPROVED

UL CERTIFIED SAFETY US-CA

IC cULus Listed Type I.C.

LED BOARD & DRIVER 5 YEAR LUMINAIRE WARRANTY

Ordering Guide

SCPLED

PRODUCT ID		NOM. LUMENS/FT		CRI		COLOR TEMP. (choose one)		SHIELDING		LINEAR LENGTH	
SCPLED	Sculpt Perimeter LED	**300**	300 lm/ft - Minimum	**80**	80 CRI	**27**	2700 K	**FL**	flush	**#**	2 ft - 12 ft continuous length
		1000	1000 lm/ft - Maximum	**90**	90 CRI	**30**	3000 K	**RG2**	regressed 2"	**S(L)**	System Run
						35	3500 K				
						40	4000 K				
		Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.								SCULPT accommodates any length. Metric lengths also available, please consult factory.	

FINISH		VOLTAGE		DRIVER		CIRCUITS		MOUNTING	
W	white	**120**	120 V	**DP**	dimming (0-10V) 1%	**1**	1 circuit	**TB9**	t-bar 9/16"
C	custom **Powder coated WHITE**	**277**	277 V	**LT**	Lutron	**2**	2 circuits	**TB15**	t-bar 15/16"
		347	347 V	**BI**	bi-level dimming	**+E(#)**	emergency circuit*	**ST**	screw slot t-bar
		UNV	universal	**O**	other*	**+NL(#)**	night light section*	**TG9**	tegular 9/16"
						+GTD(#)	generator transfer device*	**TG15**	tegular 15/16"
								DS	drywall spackle flange
								DF	drywall flange
				* Please consult factory; see page 2		* Specify quantity			

BATTERY (OPTIONAL)		POWER FEED (OPTIONAL)		OTHER (OPTIONAL)		IC CONTROLS (OPT.)		CUSTOM (OPTIONAL)	
B#	battery pack 4' sections	**EF**	end feed	**+FW**	flex whip (6' std)*	**WC(#)**	wireless control dimming	**C**	custom
				+CP	Chicago plenum				
Not available with 347V Please consult factory		See page 2 for more details		* Other lengths available; please consult factory.		See integrated controls guide for more details. Specify quantity. Requires 8" blank Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.		Please specify	

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LED SYSTEM

CRI	Minimum 80 or 90 color rendering index
CCT	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3.0–step MacAdam ellipse).
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.

CONSTRUCTION

Housing	Extruded aluminum (0.080'' nominal) up to
End Cap	Die cast aluminum
Interior Brackets	Die formed sheet steel (20 gauge)
Lenses	Extruded acrylic (0.060'' nominal) - injection moulded
Hanger	Die cast aluminum
Suspension	Sliding aircraft cable along product length
Cable Grips	Quick connecting / release

ELECTRICAL

Lutron driver	LDE1 - EcoSystem H-Series (1%)
Other drivers	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex Xitanium SR - For wireless sensor
Emergency	remote emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV.

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

SHIELDING - Frosted acrylic Spotless lens



FL flush

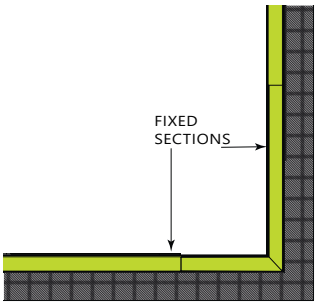


RG2 regressed 2"

FINISH

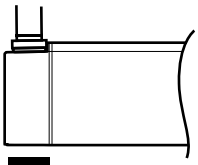
Powder coated and custom finishes are also available.

FIXED SECTION

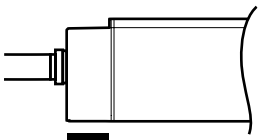


FS FIXED SECTIONS

POWER FEED



TF TOP FEED
standard



EF END FEED
optional

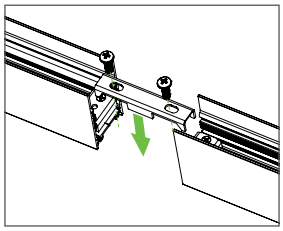
WEIGHT

Recessed 4 ft	8 lbs / 3.6 kg
Recessed 8 ft	16 lbs / 7.3 kg
Recessed 12 ft	24 lbs / 10.9 kg

JOINERS

In order to allow very long runs of SCULPT luminaires, Axis has developed an effective joining system.
Special care has been taken to maximize the performance of the joiner for each SCULPT option.

NOTE: Mount each system segment individually.
Do not assemble system prior to mounting.



Allow a minimum of 6" between end of long runs and vertical wall

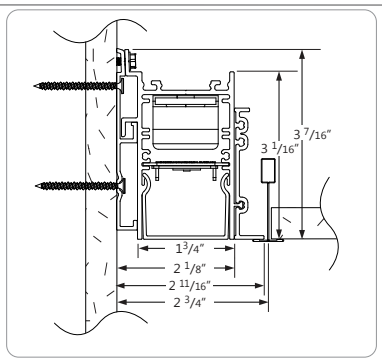
APPROVALS

Certified to UL and CUL standards
Meets CCEC requirements (Chicago plenum)
Suitable for damp locations.
IC Rated (Insulated ceiling)

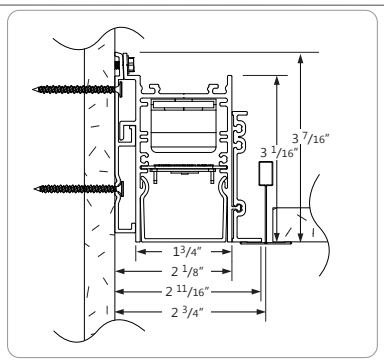
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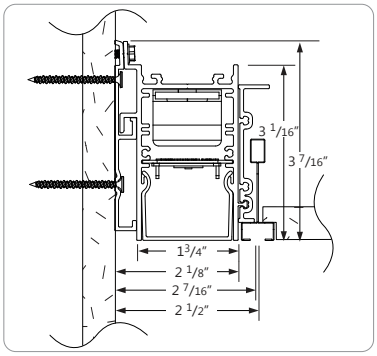
TB CEILING MOUNTING OPTIONS



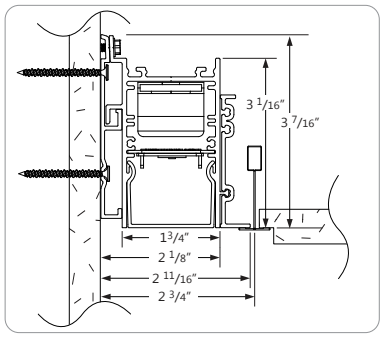
TB9 9/16" T-BAR



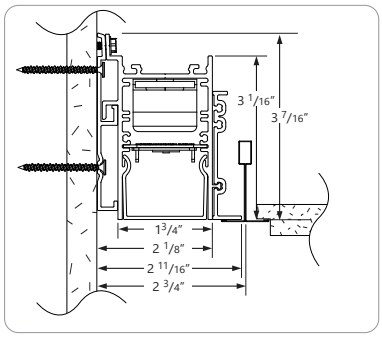
TB15 15/16" T-BAR



ST SCREW SLOT T-BAR



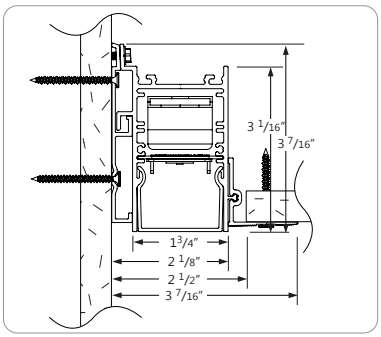
TG9 TEGULAR 9/16"



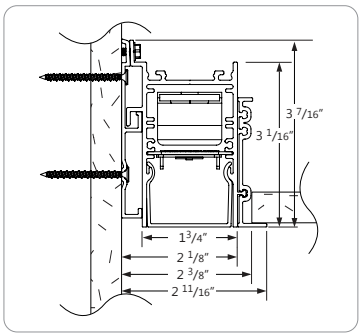
TG15 TEGULAR 15/16"

Shown with flush shielding

DRYWALL CEILING MOUNTING OPTIONS



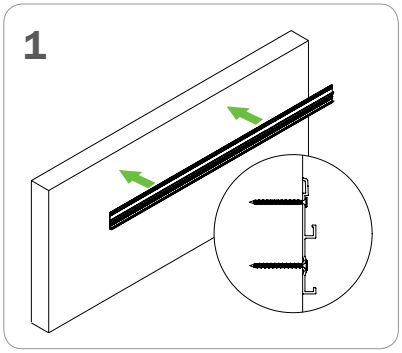
DS SPACKLE FLANGES



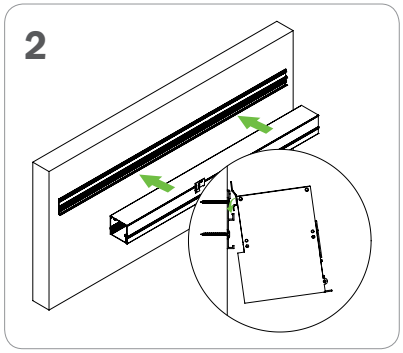
DF VISIBLE FLANGES WALL MOUNTING

Shown with flush shielding

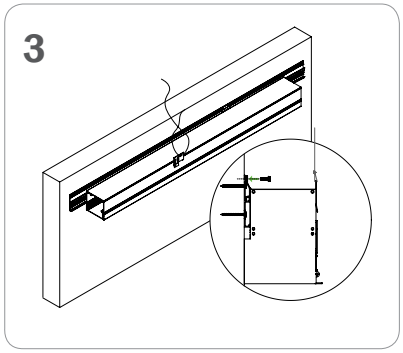
INSTALLATION GUIDE



Install wall track level and secure to structure at small grooves in extrusion.



Hook Perimeter luminaire onto wall track.



Secure to wall track, secure to structure.

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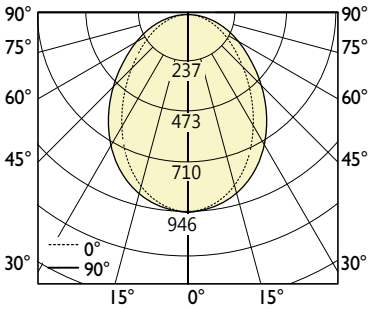
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PHOTOMETRIC DATA (ADDITIONAL IES FILES AVAILABLE ON WEBSITE)

500 lm/ft linear with Flush lens

PHOTOMETRIC CURVE



Lumen/ft down: 501 lm/ft
Total Lumens: 2004 lm (for 4ft)
Input Watts: 22.2 W
Efficacy: 90 lm/W

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	943	943	943	943	943
5	932	938	934	938	940
15	884	887	872	860	859
25	788	780	750	723	715
35	656	641	599	559	544
45	508	491	446	408	392
55	361	346	310	279	266
65	227	216	193	174	167
75	110	105	96	88	86
85	21	21	23	24	23
90	0	1	3	4	4

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	89
10-20	245
20-30	345
30-40	375
40-50	346
50-60	280
60-70	194
70-80	103
80-90	27
90	1

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	14871	13045	11453
55	13026	11161	9585
65	11088	9429	8163
75	8767	7698	6843
85	4868	5504	5504

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.

IES FILE:SCR-500-80-35-F-4-W-UNV-D-1.IES

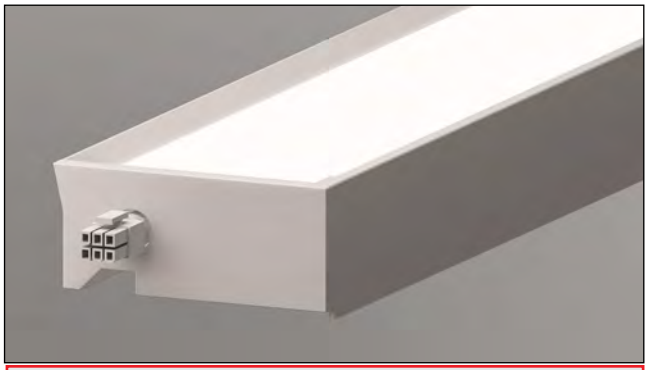
TESTED ACCORDING TO IES LM-79-2008

All IES files are available for download at: www.axislighting.com

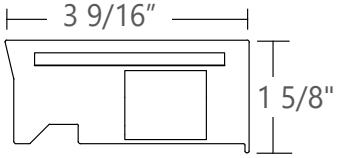
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AL03

CovePerfekt™ | WALL



IMPORTANT! - All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.



Project _____

Type _____

Notes _____

PERFORMANCE/LINEAR FT AT 3000K AND 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY*
300 lm/ft	2.4 W/ft	127 lm/W
600 lm/ft	4.7 W/ft	127 lm/W
700 lm/ft	5.6 W/ft	126 lm/W
1100 lm/ft	9 W/ft	122 lm/W

REFER TO PHOTOMETRIC DATA SECTION FOR EXACT VALUES
*for 2700K use 0.94 multiplier on watts and efficacy
*for 4000K use 1.02 multiplier on watts and efficacy

400lm/ft 3.5W/ft

Armstrong CEILING & WALL SOLUTIONS | LED lighting facts LED Product Partner | CCEA APPROVED | Perfekt™ | SurroundLite | Axitune Tunable White | PoE | CONTROL SENSORS | bios ILLUMINATED | cULus Listed | LED BOARD & DRIVER 5 YEAR LUMINAIRE WARRANTY

Ordering Guide

CCW

PRODUCT ID	OUTPUT	LIGHT DIRECTION	COVE OPENING PATTERNS AND LENGTH	NOMINAL LUMENS/FT	CRI
CCW Cove Wall	**H** HI-output	**I** inside lit	**CL(L)** Cove linear (length)	**300** 300 lm/ft - Min LO-OUTPUT	**80** 80 CRI
	L LO-output	**O** outside lit	**S(L)** square shape (length)	**699** 699 lm/ft - Max	**90** 90 CRI*
			R(LxL) rectangular shape (length)	**700** 700 lm/ft - Min HI-OUTPUT	
			U(LxLxL) U shape (length)	**1300** 1300 lm/ft - Max	
			L(LxL) L shape (length)	**400** lm/ft	
			FF(L) total pattern length		
		* For Cove Linear Length, please use Inside Lit option	Cove Perfekt standard lengths are 2-12 feet in increments of 1 foot.	Outputs between listed min and max are available. Consult factory for outputs outside of the listed range. 1200 lm/ft - Maximum for 90 CRI. Consult factory for max output with BIOS.	* Maximum 1200 lumens/ft; Not available with BIOS.

All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.

W

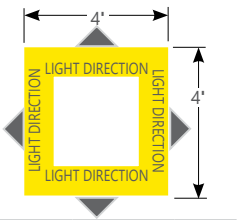
COLOR TEMP. (choose one)	FINISH	VOLTAGE	DRIVER	CIRCUITS
27 2700 K	**TW2750** 2700-5000 K - Tunable White	**W** white	**120** 120 V	**DP** dimming (0-10V) 1%	**1** 1 circuit
30 3000 K	**TW2765** 2700-6500 K - Tunable White		**277** 277 V	**LT** Lutron	**2** 2 circuits *
35 3500 K	**BTW3527** 3500-2700 K - Tunable BIOS		**347** 347 V	**BI** bi-level dimming	**+E(#)** emergency section**
40 4000 K	**BTW4027** 4000-2700 K - Tunable BIOS		**UNV** universal	**O(#)** other**	**+NL(#)** night light section**
B30 3000 K - BIOS*			**DC** low voltage*	**DPB(#)** dimming (0-10V) 1% with BIOS*	
B35 3500 K - BIOS*				**TW(#)** tunable white drivers*	
B40 4000 K - BIOS*				**POE(#)** POE drivers*	
Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology		* Only available with POE drivers.	*See page 4 to specify system **Please consult factory; see page 5 Not available with 347V Please consult factory	* Cannot combine with E or NL ** Specify quantity

MOUNTING/SUSPENSION	BATTERY (OPTIONAL)	OTHER (OPTIONAL)	REMOTE IC CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
AC Armstrong Axiom Cove *	**B(#)** battery pack	**CP** Chicago plenum	**DS(#)** daylight sensor	**C** custom
C Other Cove			**OS(#)** occupancy sensor	
			DOS(#) daylight & occupancy sensor	
			WC(#) wireless control dimming	
* Ordered separately from Armstrong.	For minimum 4' long fixture only Not available with 347V. Please consult factory	Not available with 347V Luminaires with Chicago plenum option are shipped with 6' of FMT cable. See page 6 for more details.	Specify quantity. Remote only. See integrated controls guide for more details. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.	Please specify

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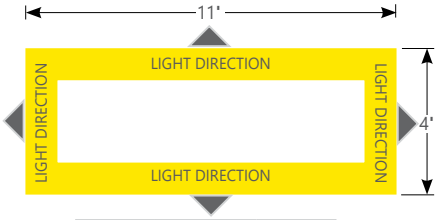
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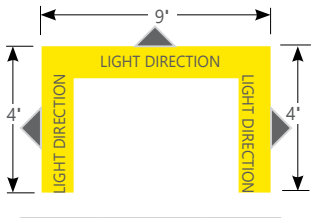
CCWL	O	S[4]
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Square 90° Corner Pattern



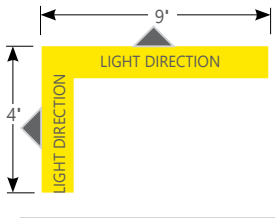
CCWL	O	R(11x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Rectangle 90° Corner Pattern



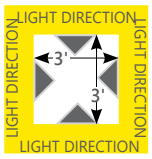
CCWL	O	U(4x9x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



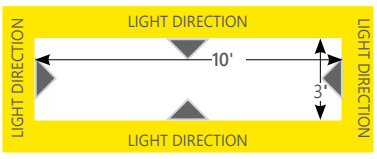
CCWL	O	L(9x4)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



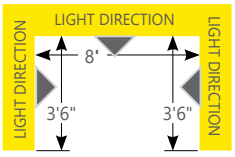
CCWL	I	S[3]
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Square 90° Corner Pattern



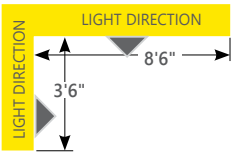
CCWL	I	R(10x3)
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Rectangle 90° Corner Pattern



CCWL	I	U(3'6"x9x3'6")
PRODUCT ID	LIGHT DIRECTION	PATTERNS

TOP VIEW - Open Shape 90° Corner Pattern



CCWL	I	L(8'6"x3'6")
PRODUCT ID	LIGHT DIRECTION	PATTERNS

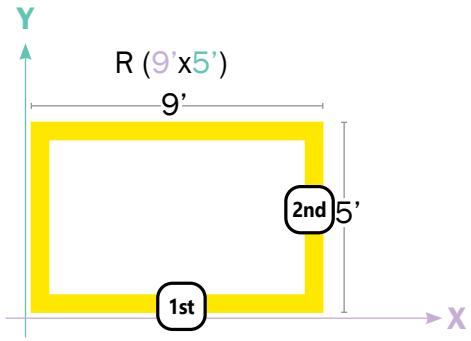
TOP VIEW - Open Shape 90° Corner Pattern

How to Specify 90 degree Corners and Patterns

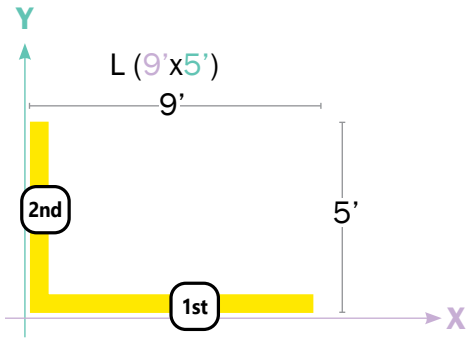
Example

! Measurements for Cove Perfekt should be made along the front side of the Cove opening.

Defining R - Rectangular shape

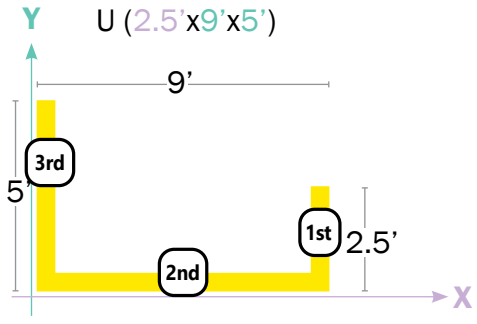


Defining L shape



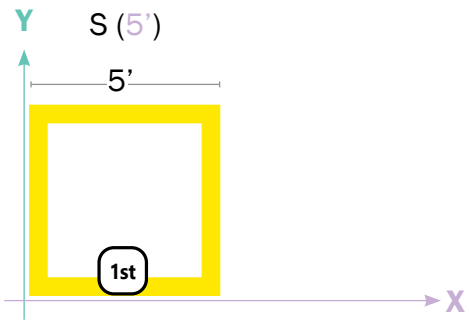
Note: The first number will always define the width, the second - the length.

Defining U shape



Note: The first number will always define the right arm length, the second - the width, and the third - the left arm length.

Defining S - Square shape



Note: The number will define the width. (All sides are the same length).

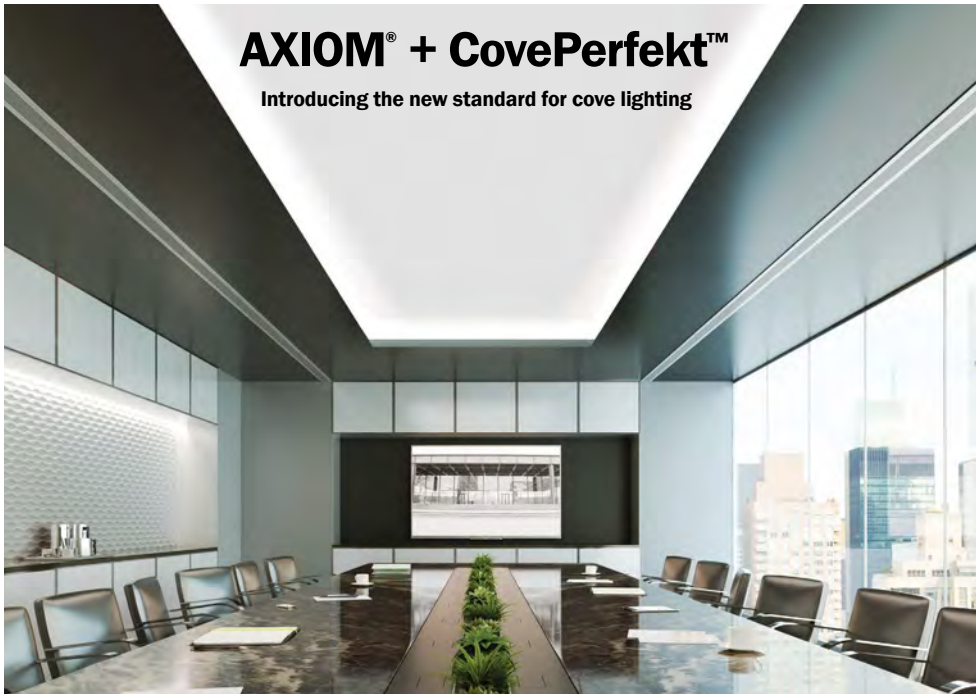
IMPORTANT! - Corner illumination is achieved by Surroundlite™ technology, NOT by corner segments. Luminaires are connected by Quick connect cables, so any corner degree is possible.

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Cove Lighting Redefined



Few luminaires have been more in need of an upgrade than cove lights, long stifled by complicated details and inconsistent, time-consuming aiming.

So Armstrong and Axis joined forces to codevelop the best possible cove lighting solution from the ground up.

Introducing Axiom® Indirect Light Coves and CovePerfekt™... The new standard for cove lighting.

Up to twice the efficiency of other cove products.

Multiple features packed into only four luminaires.

Foolproof mounting. Aim-free lighting.

Cove lighting will never be the same...

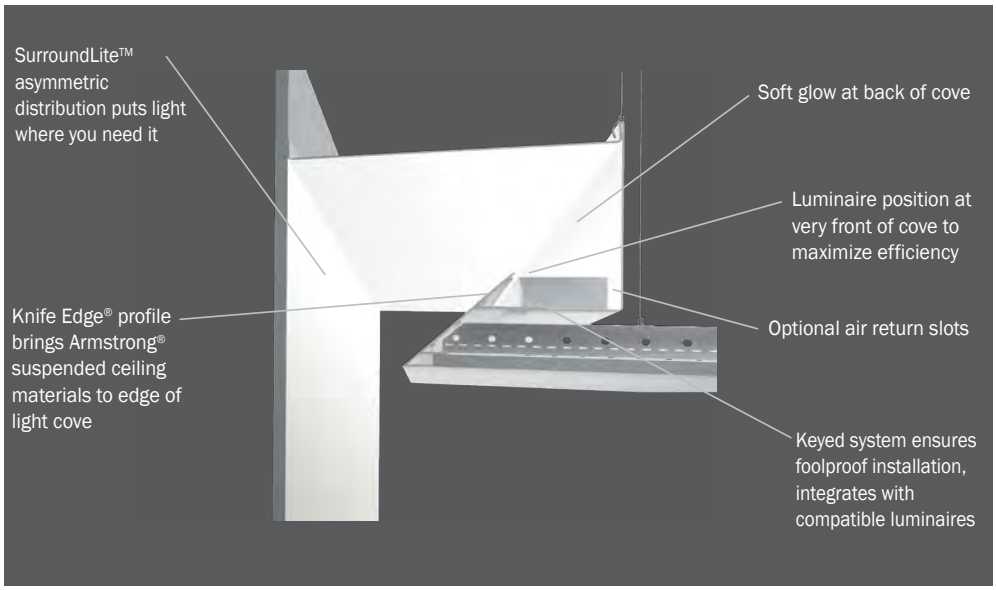
For more information on Axiom® Indirect Light Coves, go to armstrong.com/axiomlightcoves

AESTHETICS
- No lamp images • No socket shadows
- No color shifting • No bright spots
- No dark ends • Just total visual comfort

PERFORMANCE
- SurroundLite™ optics with 180-degree distribution eliminates trapped light
- Improved LED lighting effectiveness – Same amount of ambient light using as little as half the watts.
- Integrated driver (Ceiling, Wall) and battery (Ceiling).

SPECIFICATION
- No need for complex cove details.
- No need to select beam angles, figure out cove dimensions and locate remote drivers.

INSTALLATION (in AXIOM® Light Coves).
- Tool-free installation of luminaires.
- Up to 90% less labor to install coves.
- Easy onsite trade coordination
- Long runs conveniently connected to a single line-voltage circuit (up to 100 feet)



The ultimate cove lighting solution... CovePerfekt in an Axiom® Indirect Light Cove

ⓘ Axiom® Indirect Light Coves ordered separately from Armstrong.

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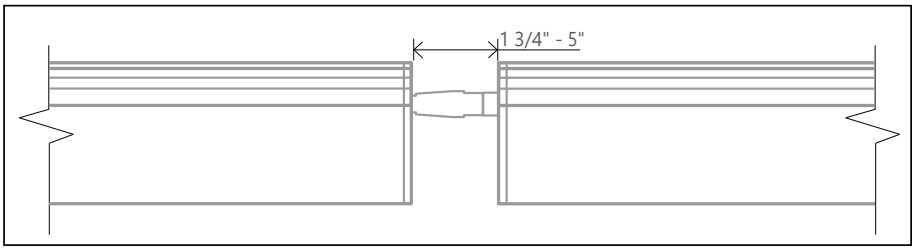
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Indirect light Cove opening



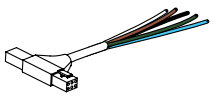
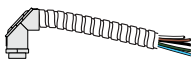
Axis will determine the best fixture length combination to fill the Cove opening.

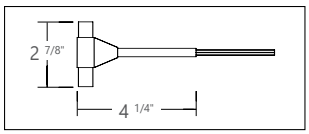
CABLE CONNECTION - LENGTH RANGE



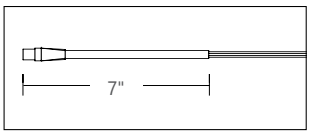
ACCESSORIES

Straight or T power feeds available to feed power anywhere along run

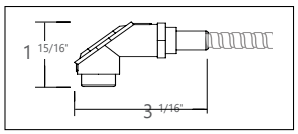
	Item Number	Item	Housing Color	Dimensions	Description		
STD	**WR14443**	T-connector	White	2 7/8 " x 4 1/4 "	End feed or middle feed connector from cove fixture to junction box located behind the cove		Feed up to 100' @ 120V 200' @ 277V
STD	**WR14433**	Panel mount female connector	White	22" (length)	End feed connector from cove fixture to connect next Cove fixture in the run		Feed up to 100' @ 120V 200' @ 277V
STD	**WR14434**	Straight male connector	White	7" (length)			
CCEA	**EL18832**	90° Connector		6' (length)	Chicago plenum approved 90° Connector		Feed up to 100' @ 120V 200' @ 277V
CCEA	**PWHP-72-5W**	FMT, Chicago Plenum Rated			Custom plenum flex whip		



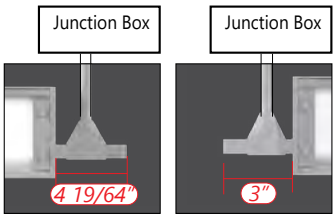
T-connector



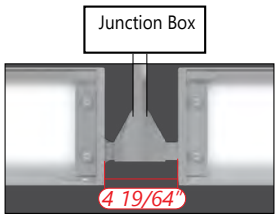
Straight connector



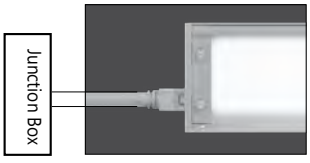
90°-connector + FMT, CCEA



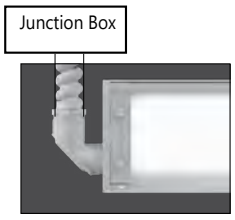
T - End Power Feed



T - Middle Power Feed



Straight End - Power Feed



T - End Power Feed

Axis will provide all necessary accessories based on your configuration. Connector types and locations to be indicated on the shop drawings.

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CONSTRUCTION

Housing	Extruded aluminum (0.060" nominal)
End Cap	Die cast aluminum (0.080" nominal)
Top Covers	Cold rolled sheet steel painted (22 gauge)

ELECTRICAL

Lutron driver	**LDE1 -** Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**STC** - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. **DYN**- BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™ enabled 100% to 50%, light output dimming from 49% to 1%.
Tunable White TW drivers*	**DALIDT6** - DALI Type 6 (Two DALI Addresses) **DALIDT8** - DALI Type 8 (One DALI Address) **LDTW** - Lutron DALI Type 8 (One DALI adress) Tunable White series
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	MOLEX IGOR SMARTENGINE **O -** Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV, DC.

***Choose driver from available options.**

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

WEIGHT

COVE 4 ft	6 lbs / 2.7 kg
COVE 8 ft	12 lbs / 5.4 kg
COVE 12 ft	18 lbs / 8.2 kg

FINISH

White paint.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ BIOS Tunable White (BTW) Choice of 4000-2700K and 3500-2700K; does not use a bio-dimmer, it uses TW drivers, which allow independent control of CCT and intensity; e.g., BTW4027 provides combined SkyBlue + white light at 4000K, SkyBlue is removed at 2700K. Light output can be adjusted for each CCT. Consult BIOS guide for more information on BIOS technology.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40°C (32-104F).

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

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LIGHT GUIDE

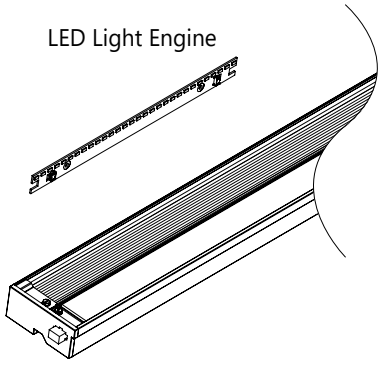
High precision light guide made of PMMA material, allows distribution of controlled light in all 3-dimensions to put light on both vertical and horizontal planes within the space. Patented lightguide design featuring molecular optics and precision-coupled optic components yield a high efficiency luminaire. In-plane mixing maximizes color uniformity while light emitting area is uniform and diffuse without 'head lighting' from the LED's.

LED UPGRADE / REPLACEMENT

All LED light engines used are field replaceable and upgradable to ensure the lighting system will last for years. Future-proof design comes with easy access to LED light engines from above using quick connectors (included in luminaire) and a screwdriver.

For more information on LED light engine upgrade and replacement, please refer to the COVE LED Light Engine Replacement sheet available at: www.axislighting.com under 'Downloads' tab.

LED Light Engine



SYSTEMS (S(L))

Cove Perfekt standard lengths are 2-12 feet. 1-foot sections are also available, please consult factory.
For cove openings greater than 12 ft system runs are available, and would be a combination of standard lengths luminaires, layed out to fit any cove opening shape and interconnected using Axis Quick Connect system.
Fixture lengths will be decided by the factory based on cove opening drafts, specified by the project designer.
For more informationon systems and joining, please refer to the COVE installation sheets available at www.axislighting.com under 'Downloads' tab.

APPROVALS

Certified to UL and CSA standards
Suitable for damp locations.

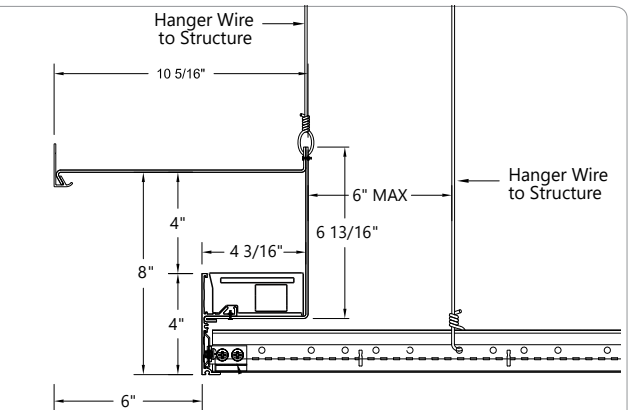
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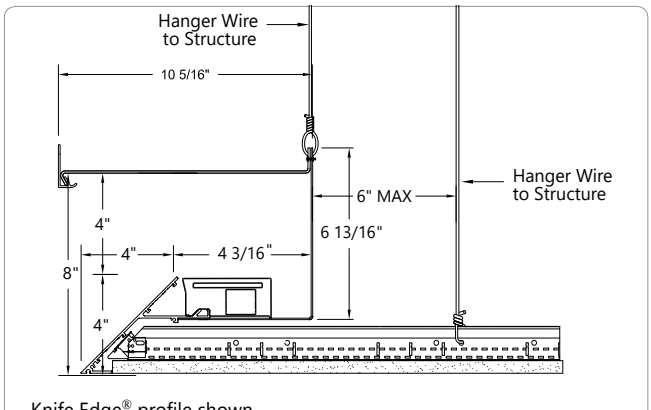
Armstrong and other cove ceiling systems provided by others.

CEILING MOUNTING OPTIONS



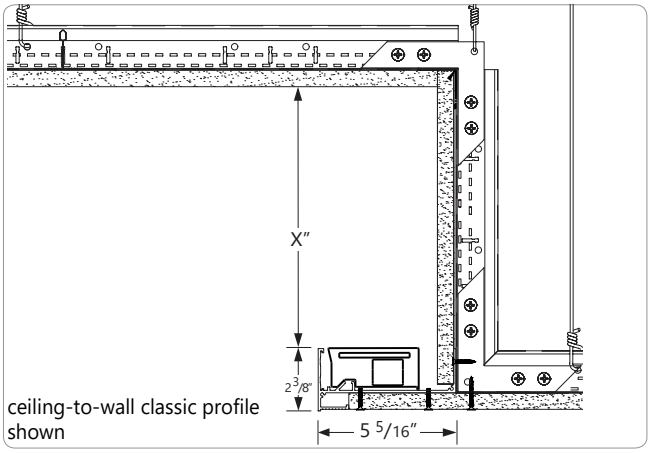
classic profile shown

AC ARMSTRONG AXIOM COVE



Knife Edge® profile shown

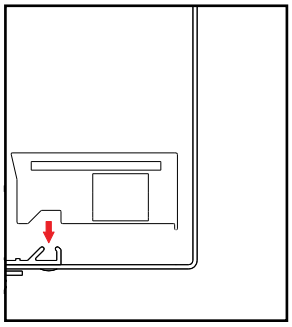
AC ARMSTRONG AXIOM COVE

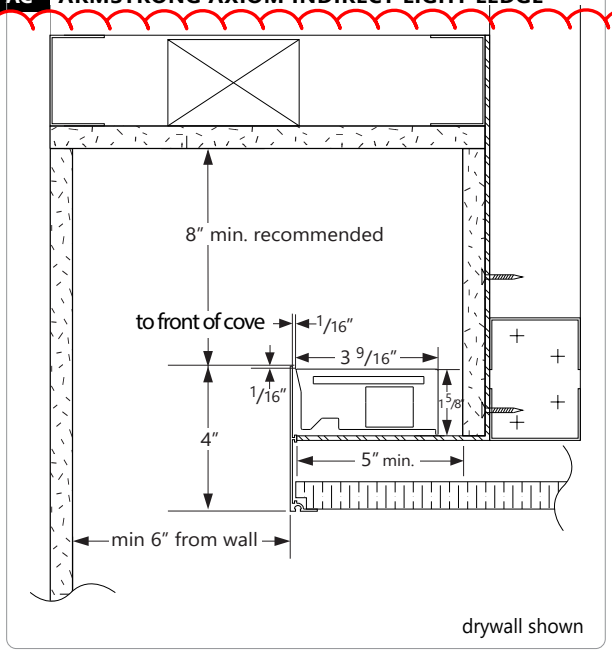


ceiling-to-wall classic profile shown

AC ARMSTRONG AXIOM INDIRECT LIGHT LEDGE

WITH ARMSTRONG CEILING

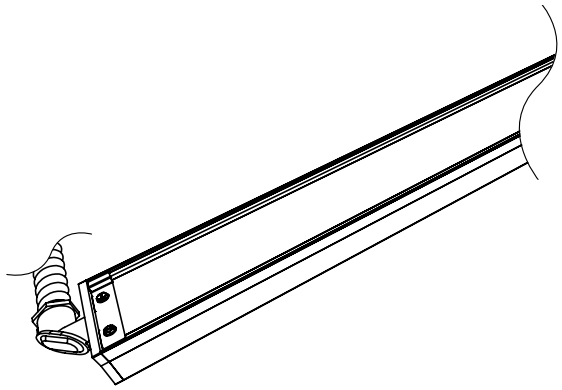




drywall shown

C OTHER COVE

CHICAGO PLENUM OPTION



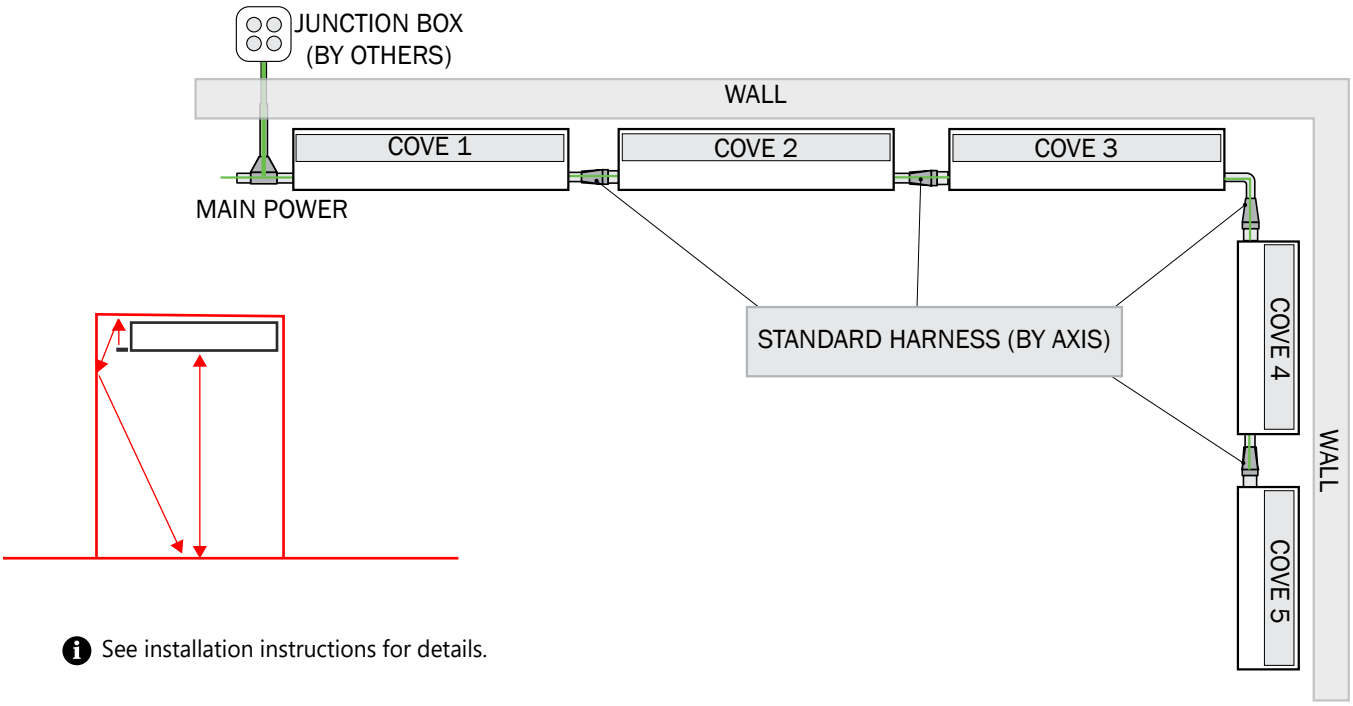
Luminaires with Chicago plenum option are shipped with 6' of FMT cable + 90° Connector.

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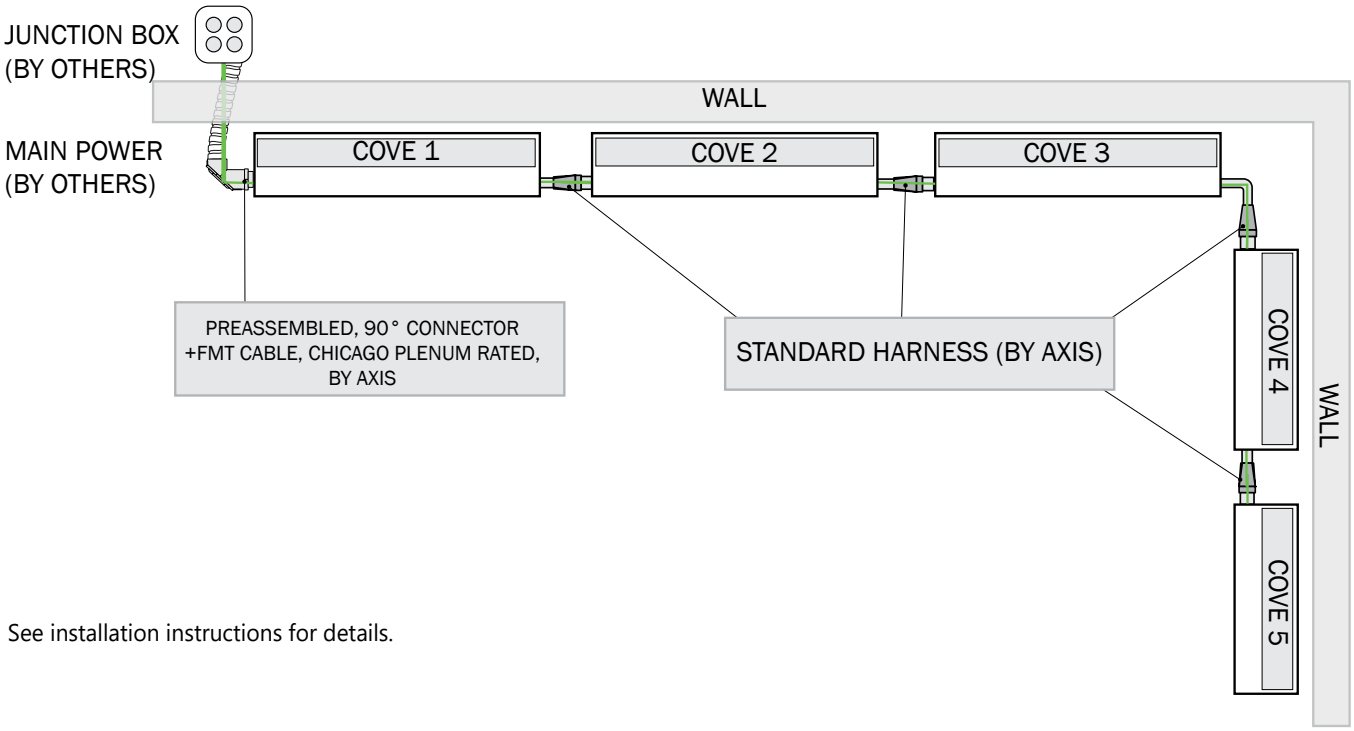
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STANDARD HARNESS OPTION



See installation instructions for details.

CHICAGO PLENUM OPTION



See installation instructions for details.

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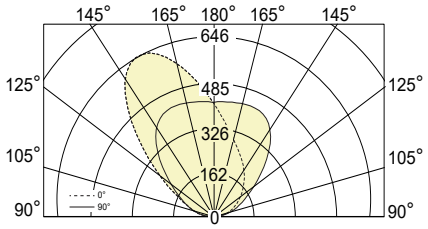
● PHOTOMETRIC DATA (LO-OUTPUT)

NO SHIELDING (NO)

CCW-L-X-CL(4)-300-80-35

100% up at 300 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	1	2	2	3	3	3	2	2	1
95	23	20	19	17	17	17	19	21	23
105	72	64	62	59	59	60	63	64	72
115	124	108	101	96	95	96	101	108	123
125	193	165	145	132	129	132	145	165	192
135	292	241	200	174	168	175	200	241	291
145	383	310	251	217	207	217	251	309	383
155	422	347	290	256	246	256	289	345	422
165	423	369	328	301	294	301	326	366	423
175	416	396	380	367	365	366	377	391	416
180	412	412	412	412	412	412	412	412	412

ZONAL LUMENS

Zone	Lumens
90	
90-100	20
100-110	69
110-120	116
120-130	169
130-140	223
140-150	241
150-160	198
160-170	121
170-180	40
180	

Lumen/ft up: 300 lm/ft
Total Lumens: 1196 lm (for 4ft)
Input Watts: 9.4 W
Efficacy: 127 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.
For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCW-L-X-CL(4)-300-80-35.IES

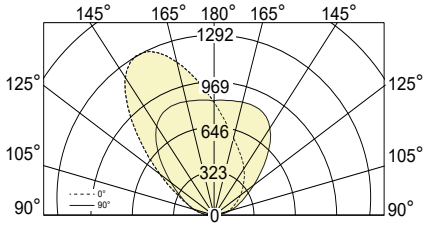
TESTED ACCORDING TO IES LM-79-2008

NO SHIELDING (NO)

CCW-L-X-CL(4)-600-80-35

100% up at 600 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	2	3	4	5	5	5	5	3	2
95	45	41	37	34	34	33	37	41	47
105	145	127	125	119	117	119	126	128	144
115	248	216	202	192	190	192	202	215	246
125	386	331	290	264	258	265	290	330	384
135	585	482	399	349	337	350	400	482	582
145	767	620	502	433	415	434	503	619	766
155	843	694	580	511	492	511	579	690	844
165	845	738	656	603	587	601	652	731	847
175	832	792	760	735	730	732	754	782	833
180	824	824	824	824	824	824	824	824	824

ZONAL LUMENS

Zone	Lumens
90	
90-100	20
100-110	69
110-120	116
120-130	169
130-140	223
140-150	241
150-160	198
160-170	121
170-180	40
180	

Lumen/ft up: 600 lm/ft
Total Lumens: 2392 lm (for 4ft)
Input Watts: 18.9 W
Efficacy: 127 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.
For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCW-L-X-CL(4)-600-80-35.IES

TESTED ACCORDING TO IES LM-79-2008

ⓘ All IES files are available for download at: www.axislighting.com

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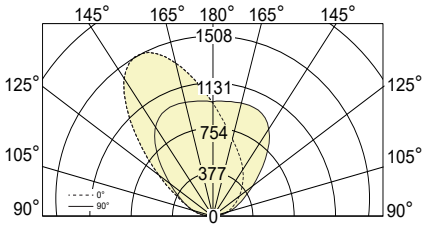
● PHOTOMETRIC DATA (HI-OUTPUT)

NO SHIELDING (NO)

CCW-H-X-CL(4)-700-80-35

100% up at 700 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	2	4	5	6	6	6	5	4	2
95	53	48	43	40	40	39	43	48	54
105	169	149	146	139	137	139	147	149	168
115	289	252	236	223	222	224	236	251	287
125	450	386	339	309	301	309	339	385	448
135	682	562	466	407	393	408	467	562	679
145	894	724	586	506	484	506	586	722	893
155	984	810	676	596	574	597	675	805	985
165	986	861	765	703	685	702	761	853	988
175	971	924	887	857	852	854	879	913	972
180	961	961	961	961	961	961	961	961	961

ZONAL LUMENS

Zone	Lumens
90	
90-100	20
100-110	69
110-120	116
120-130	169
130-140	223
140-150	241
150-160	198
160-170	121
170-180	40
180	

Lumen/ft up: 700 lm/ft
Total Lumens: 2791 lm (for 4ft)
Input Watts: 22.2 W
Efficacy: 126 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.
For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCW-H-X-CL(4)-700-80-35.IES

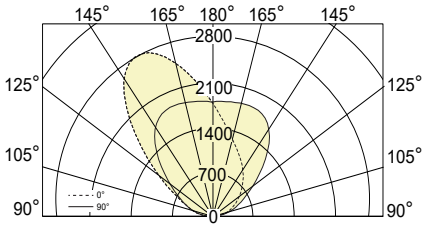
TESTED ACCORDING TO IES LM-79-2008

NO SHIELDING (NO)

CCW-H-X-CL(4)-1300-80-35.ies

100% up at 1300 lm/ft

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles								
Vertical Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
90	4	7	10	11	12	11	10	7	4
95	98	89	80	74	75	72	81	90	101
105	314	276	271	258	254	258	272	276	312
115	537	469	438	415	411	415	437	466	533
125	836	717	629	573	559	574	629	714	832
135	1267	1044	865	756	730	758	867	1044	1260
145	1661	1344	1088	939	899	940	1089	1340	1659
155	1827	1504	1256	1108	1066	1108	1254	1496	1830
165	1831	1598	1421	1306	1273	1303	1413	1585	1835
175	1802	1716	1647	1592	1581	1586	1633	1695	1804
180	1785	1785	1785	1785	1785	1785	1785	1785	1785

ZONAL LUMENS

Zone	Lumens
90	
90-100	86
100-110	299
110-120	504
120-130	731
130-140	964
140-150	1043
150-160	859
160-170	525
170-180	172
180	

Lumen/ft up: 1300 lm/ft
Total Lumens: 5184 lm (for 4ft)
Input Watts: 43.6 W
Efficacy: 119 lm/W

80 CRI shown. For 90 CRI, divide wattage by 0.8 and multiply efficacy by 0.8.
3500K shown. For 2700K, divide wattage by 0.94 and multiply efficacy by 0.94.
For 4000K, divide wattage by 1.02 and multiply efficacy by 1.02.

IES FILE: CCW-H-X-CL(4)-1300-80-35.ies

TESTED ACCORDING TO IES LM-79-2008

ⓘ All IES files are available for download at: www.axislighting.com

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***IMPORTANT** – All cove opening patterns and length must be submitted with drawings indicating dimensions and light direction.*

Beam 3 | Surface mount



Flush Spotless Lens - down



Glo Lens down



StepLens 1.25 - down

Project _____

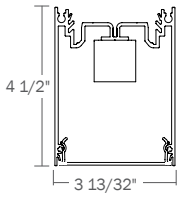
Type _____

Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1100 lm/ft	8.8 W/ft	125 lm/W	SO
1100 lm/ft	9.7 W/ft	114 lm/W	UB
1100 lm/ft	8.6 W/ft	128 lm/W	0.25G
1100 lm/ft	8.4 W/ft	131 lm/W	1.25M
1100 lm/ft	9.1 W/ft	122 lm/W	BW
1000 lm/ft	9.5 W/ft	112 lm/W	NW
1000 lm/ft	9.4 W/ft	113 lm/W	ASO
1000 lm/ft	9.4 W/ft	113 lm/W	WW
1000 lm/ft	9.3 W/ft	114 lm/W	GZ

Please consult factory for custom lumen output and wattage.





Axitune Tunable White | PoE | Control Sensors | Listed

Ordering Guide

TB3SLED

PRODUCT ID		NOM. LUM/FT DOWN		CRI		COLOR TEMP. (choose one)				SHIELDING	
TB3SLED	BEAM3 - Surface LED	**300**	300 lm/ft - **min**	**80**	80 CRI	**27**	2700 K	**TW2750**	2700-5000 K - Tunable White	**SO**	spotless lens
		1000	1000 lm/ft - **max for GZ, NW, WW, ASO.***	**90**	90 CRI*	**30**	3000 K	**TW2765**	2700-6500 K - Tunable White	**ASO**	asymmetric, flush only
		1100	1100 lm/ft - **max**			**35**	3500 K	**BTW3527**	3500-2700 K - Tunable BIOS	**0.25G**	0.25" Glo lens
						40	4000 K	**BTW4027**	4000-2700 K - Tunable BIOS	**1.25M**	StepLens , lum. end cap
						B30	3000 K - BIOS*			**UB**	Ultra blend lens (Flush only)*
						B35	3500 K - BIOS*			**BW**	batwing, flush only
						B40	4000 K - BIOS*			**NW**	narrow, flush only
										GZ	graze, flush only
										WW	wallwash, flush only
		Outputs between listed min and max are available. * 1000 lm/ft max. only for GZ, NW, WW and ASO. Consult factory for outputs outside of the listed range. Consult factory for max output with BIOS		* Not available with BIOS.		Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology				Choose only one of the options above; SurroundLite not available with direct * Default lens for Tunable white and BIOS. Consult factory for other lens.	

LENGTH (FT)		MR (OPTIONAL)		FINISH		VOLTAGE		DRIVER		CIRCUITS	
2	2'	**M16LED(#)**	MR16 LED lamp - Line voltage (by other)*	**AP**	aluminum paint	**120**	120 V	**DP**	dimming (0-10V) 1%	**1**	1 circuit
3	3'			**W**	white	**277**	277 V	**LT(#)**	Lutron *	**2**	2 circuits
4	4'	**M16LEDB(#)**	MR16 LED lamp - Dimmable (provided)**	**BLK**	black	**347**	347 V	**BI**	bi-level dimming	**+E(#)**	emergency circuit *
5	5'			**C**	custom	**UNV**	universal	**O(#)**	other **	**+NL(#)**	night light circuit *
8	8'			**Powder coated BLACK**		**DC**	low voltage*	**DPB(STC)**	dimming (0-10V) 1% with BIOS*	**+GTD(#)**	generator
12	12'							**DPB(DYN)**	Bio-dimming™ 100%-81% with BIOS*		transfer device *
S(L)	System Run							**TW(#)**	tunable white drivers*	**+M**	MR
								POE(#)	POE drivers*		
		*Specify quantity; Available with 120V or 277V only; Line wattage only; Seperate circuits included. **Consult factory; See page 4 for more details; Available with UNV, 120V or 277V only; MR16 constant current for 0-10V & DALI only. Available in 3000K or 4000K. Available in luminaires with Axitune and BIOS but downlight will not be tunable white or BIOS LEDs				* Only available with POE drivers.		* See page 2 to specify system ** Please consult factory; see page 2 Consult factory for other control options.		* Specify quantity	

MOUNTING/SUSPENSION		BATTERY (OPTIONAL)		IC CONTROLS (OPTIONAL)		CUSTOM (OPTIONAL)	
SB9	surface TB/TG 9/16	**B(#)**	battery pack (integral)	**DS(#)**	daylight sensor	**C**	custom
SB15	surface TB/TG 15/16			**OS(#)**	occupancy sensor		
SBS	surface screw slot t-bar			**DOS(#)**	daylight & occupancy sensor		
S	surface drywall ceiling			**WC(#)**	wireless control dimming		
SC	surface solid ceiling						
		Minimum 5ft; Not available with 347V Please consult factory		Specify quantity. Requires 8" blank. See integrated controls guide for more details. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.		Please specify	

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Beam 3 | Surface mount

ELECTRICAL

Lutron driver	**LDE1** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**STC** - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. **DYN** - BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™, which changes spectral qualities by removing the SkyBlue component when dimming from 100% to 81%, while light output remains relatively constant; bio-dimming reduces CCT to 2700K. Dimming from 80% to 1% will then reduce light output.
Tunable White TW drivers*	**DALIDT6** - DALI Type 6 (Two DALI Addresses) **DALIDT8** - DALI Type 8 (One DALI Address) **DPTW** - two channel 0-10V dimming: one channel for brightness, one channel for CCT. **LDTW** - Lutron DALI Type 8 (One DALI adress) Tunable White series
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	**MOLEX** **IGOR** **SMARTENGINE** **O** - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV, DC.
Flex Whip	Shipped in a separate box for contractors to install

***Choose driver from available options.**

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

SYSTEM (S#)

BEAM 3 linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs.
Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM 3 that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination of 4', 8' and/or 12' sections to be assembled on site using our joining system. System runs with SurroundLite available in 1' increments only. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ BIOS Tunable White (BTW) Choice of 4000-2700K and 3500-2700K; does not use a bio-dimmer, it uses TW drivers, which allow independent control of CCT and intensity; e.g., BTW4027 provides combined SkyBlue + white light at 4000K, SkyBlue is removed at 2700K. Light output can be adjusted for each CCT. Consult BIOS guide for more information on BIOS technology.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40^{0}C (32-104F).

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CONSTRUCTION

Housing	Extruded aluminum (0.075'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (20 gauge)
Reflectors	White powder coated sheet steel (22 gauge)
Lenses	Extruded acrylic (0.070'' nominal)
Hanger	Die cast aluminum
Suspension	Sliding aircraft cable along product length

OPTICS



SO Spotless lens
UB Ultra Blend Lens



0.25G Glo lens



1.25M 1.25" StepLens

ULTRA BLEND LENS
Frosted acrylic snap-in micro lens suitable for Tunable White and BIOS applications.

SPOTLESS LENS
Frosted acrylic snap-in micro lens. Used for SO, ASO, BW, NW, GZ and WW shielding options.

GLO LENS
0.25" frosted acrylic drop lens. Patented design.

STEPLENS
1.25" StepLens, illuminated end cap.

FINISH

Aluminium paint, powder coated and custom finishes are also available.

WEIGHT

Surface 4 ft	12.3 lbs / 5.0 kg
Surface 8 ft	24.6 lbs / 10.1 kg
Surface 12 ft	36.9 lbs / 15.1 kg

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

APPROVALS

Certified to UL and CSA standards
Meets NYC requirements
Meets ADA requirements.
Suitable for damp locations.



Declare.

Beam 3
Axis Lighting

Final Assembly: Montreal, Quebec, Canada
Life Expectancy: 7 Year(s)
End of Life Options: Recyclable (87.5%), Landfill (12.5%)

Ingredients:

Recessed Housing: Aluminum 6063; Aluminum hydroxide; Titanium dioxide; Barium sulfate; 1,3,5-Triglycidyl-s-triazinetrione; **Extruded White Beam:** Aluminum 6063; Petroleum distillates; Titanium dioxide; Xylene; 1,2,4-Trimethylbenzene; 2-Butoxyethanol; 2-Pentanone, 4-hydroxy-4-methyl-; Aromatic 100 (Aromatic naphtha, type 1); Ethanol; Ethylbenzene; n-Butanol; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]; Aluminum hydroxide; Toluene; **Lens:** Polymethyl methacrylate; **Reflector:** Aluminum 5052; Polyester Resin; Titanium dioxide; Calcium Carbonate; 1,3,5-Triglycidyl-s-triazinetrione; **End Plate:** Aluminum; Silicon; Copper; Phenol, polymer with formaldehyde; **Bracket:** Steel manufacture, chemicals; (R)-1-chloro-2,3-epoxypropane; Lycopodium (powder); Pitch, gilsonite; **Cover:** Steel; **Small Hardware:** 18-8 Stainless Steel; **Wire 1:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 2:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 3:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 4:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 5:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **3-Way Connector:** Poly[imino(1,6-dioxo-1,6- hexanediyl)imino-1,6-hexanediyl], iron; Copper; **Flange Cap:** Polyvinyl chloride

Living Building Challenge Criteria:

I-13 Red List:
☐ LBC Red List Free
☐ LBC Red List Approved
■ Declared
% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Compliant
I-14 Responsible Sourcing: Not Applicable

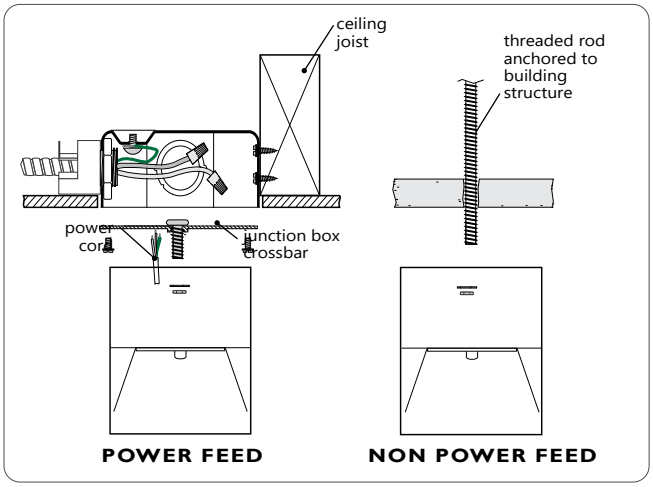
AXS-0001
EXP. 01 OCT 2024
Original Issue Date: 2023

INTERNATIONAL LIVING FUTURE INSTITUTE

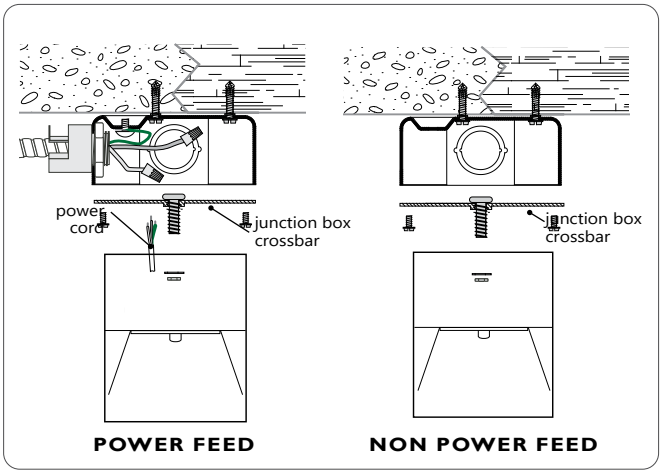
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Beam 3 | Surface mount

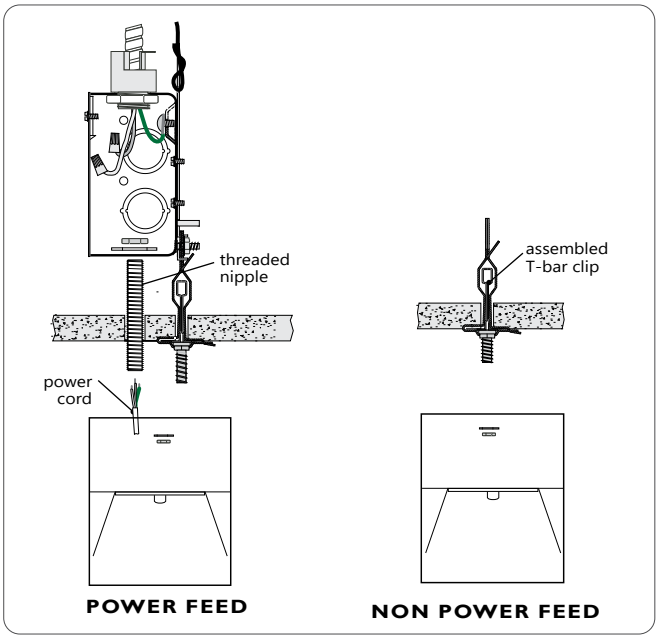
MOUNTING DETAILS



S SURFACE MOUNT DRYWALL CEILING



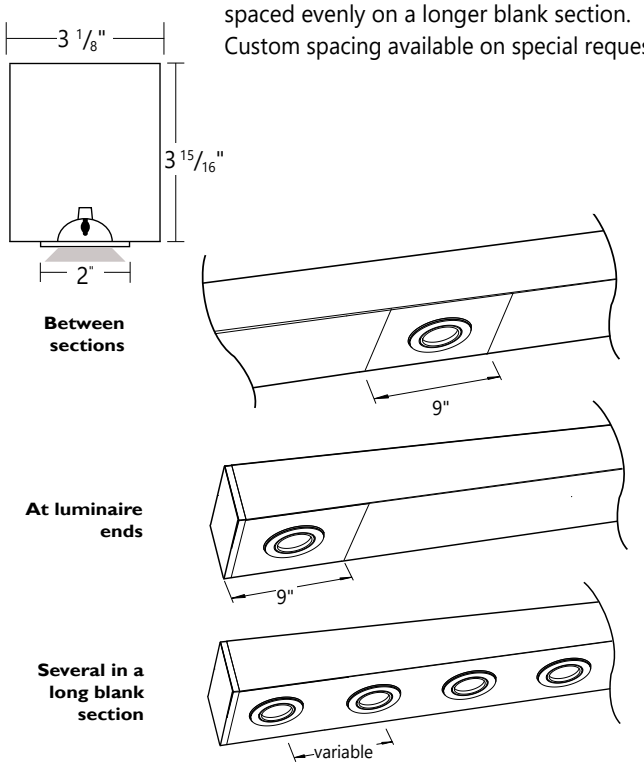
SC SURFACE MOUNT SOLID CEILING



SB9 **SB15** **SBS** SURFACE MOUNT T-BAR CEILING

MR16 LED LAMPS

Blank	Extruded aluminum (0.075'' nominal)
MR16 LED	Adjustable LED lamp (provided)
MR16 LEDB	Constant current LED lamp (provided)- Dimmable by control system for 0-10V & DALI only
Quantity	For every 4' section, there may be up to a maximum of 4 x MR16 LED lamps.
Spacing	Each MR16 is placed centered on a blank section 9" in length. Within a given section length, a series of downlights will be spaced evenly on a longer blank section. Custom spacing available on special request.



Base Type	GU 5.3
Beam Angle	40 nominal degrees
Input Watts	6W
Nominal Lumens	300 lumens
Efficacy	50 lumens per watt
Color Rendering Index (CRI)	85
Center Beam Candle Power (CBCP)	584 candelas
Life	25,000 hours at L_{70}
Correlated color temperature (CCT)	3000K, 4000K
Adjustability	15º tilt

More options are available upon request. Please consult factory.

OTHER MOUNTING OPTIONS

BEAM 3 SurroundLite is also available with wall mounted option.

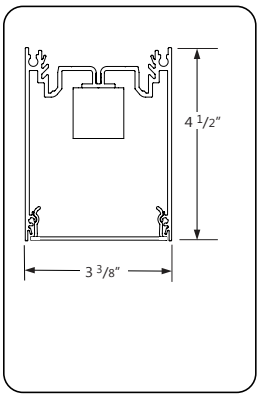
Specification sheets and installation sheets for all mountings for BEAM 3 SurroundLite luminaires are available for download at www.axislighting.com

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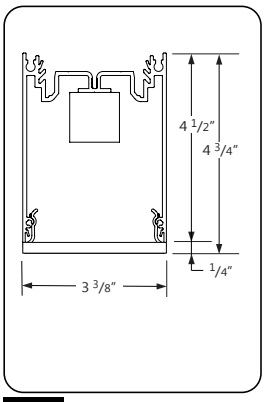
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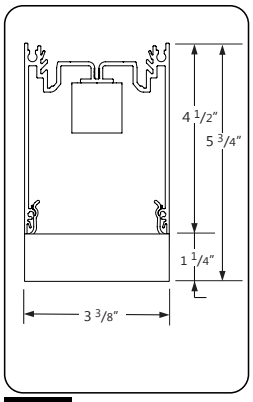
SECTION VIEWS



SO Spotless lens
ASO Asymm. lens
NW Narrow lens
GZ Graze lens
WW Wallwash lens
UB Ultra Bend lens
BW Batwing lens



0.25G 0.25" Glo lens - Direct



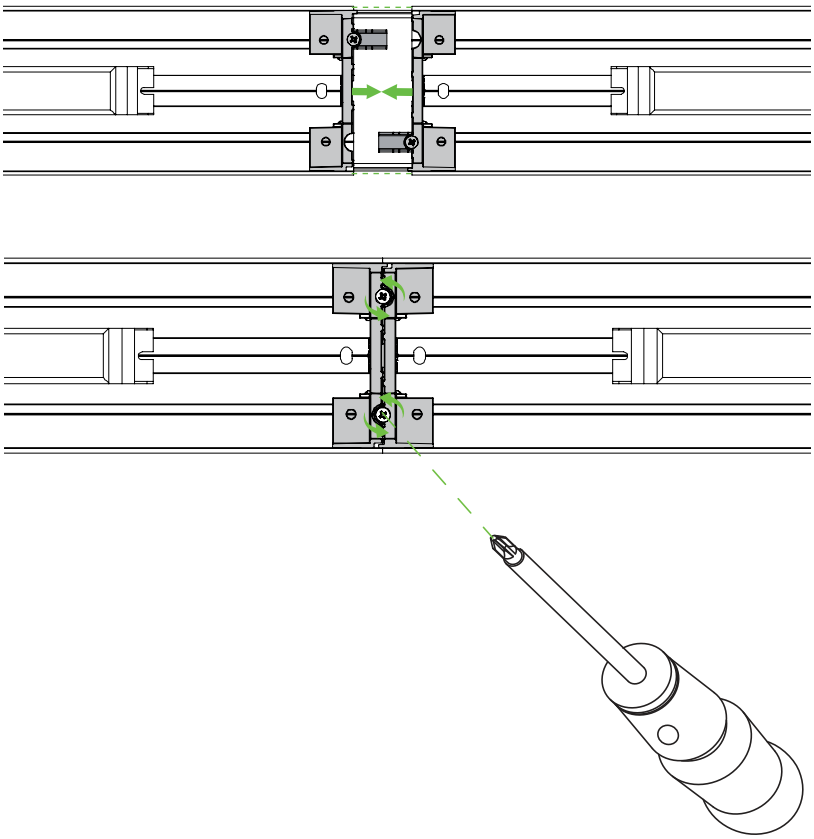
1.25M 1.25" StepLens - Direct

JOINERS

BEAM 3 SurroundLite luminaires feature the joining mechanism shown below. This mechanism joins and aligns multiple luminaires to create long continuous runs of light.

NOTE: Mount each system segment individually.

Do not assemble system prior to mounting



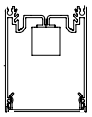
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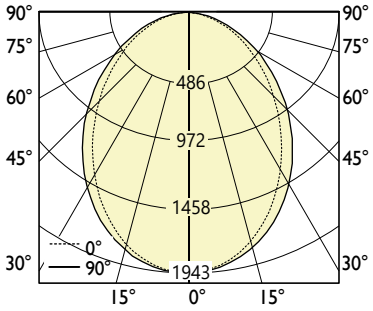
● PHOTOMETRIC DATA

SO Spotless lens

1100 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1942	1942	1942	1942	1942
5	1933	1929	1926	1924	1924
15	1832	1820	1805	1791	1787
25	1637	1619	1583	1550	1541
35	1374	1351	1300	1255	1241
45	1075	1052	1003	951	934
55	777	761	716	672	658
65	501	491	459	427	418
75	263	259	244	227	223
85	80	78	72	66	66
90	9	6	5	4	5

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	182
10-20	507
20-30	726
30-40	810
40-50	768
50-60	634
60-70	448
70-80	250
80-90	74
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	14498	13531	12597
55	12924	11906	10937
65	11296	10353	9428
75	9687	8978	8221
85	8716	7862	7247

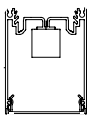
Lumen/ft: 1100 lm/ft
Total Lumens: 4401 lm (for 4ft)
Input Watts: 35.3 W
Efficacy: 125 lm/W

IES FILE: TB3SLED-1100-80-35-SO-4.IES

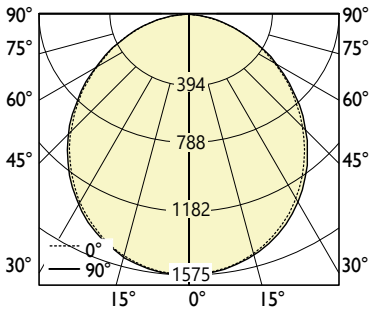
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UB Ultra blend lens

1100 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1575	1575	1575	1575	1575
5	1569	1569	1568	1569	1569
15	1509	1507	1508	1509	1509
25	1392	1392	1392	1392	1391
35	1229	1228	1228	1224	1222
45	1026	1027	1025	1018	1015
55	795	798	794	786	785
65	546	550	547	542	541
75	301	305	307	305	304
85	95	95	94	91	91
90	8	5	4	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	149
10-20	425
20-30	639
30-40	763
40-50	783
50-60	700
60-70	530
70-80	313
80-90	97
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	13834	13823	13691
55	13224	13200	13042
65	12321	12343	12198
75	11079	11301	11216
85	10433	10286	9998

Lumen/ft: 1100 lm/ft
Total Lumens: 4399 lm (for 4ft)
Input Watts: 38.7 W
Efficacy: 114 lm/W

IES FILE: TB3SLED-1100-80-35-UB-4.IES

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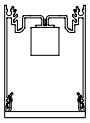
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Beam 3 | Surface mount

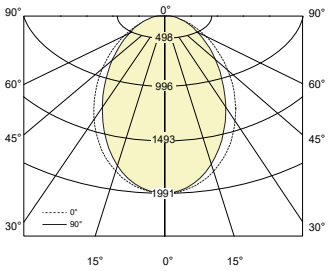
PHOTOMETRIC DATA

0.25G 0.25" Glo lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4400 lm (for 4ft)
Input Watts: 34.4 W
Efficacy: 128 lm/W
IES FILE: TB3SLED-1100-80-35-0.25G-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1991	1991	1991	1991	1991
5	1978	1976	1975	1974	1975
15	1873	1862	1844	1825	1824
25	1666	1647	1603	1556	1547
35	1384	1357	1291	1228	1211
45	1066	1037	971	906	890
55	753	732	680	631	619
65	473	462	436	408	403
75	243	246	244	239	241
85	73	85	100	109	115
90	11	27	46	59	65

ZONAL LUMENS

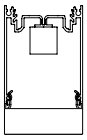
	Lumens
Zone	
0	
0-10	187
10-20	517
20-30	734
30-40	806
40-50	750
50-60	611
60-70	433
70-80	256
80-90	106
90	

LUMINANCE DATA (cd/m²)

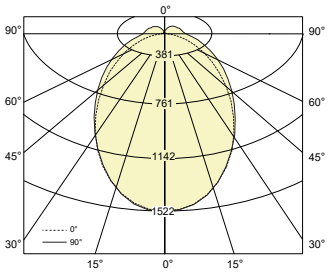
	Horizontal Angles		
Vertical Angle	0	45	90
45	14372	13099	11995
55	12519	11312	10286
65	10664	9831	9091
75	8958	8992	8868
85	7937	10890	12567

1.25M 1.25" Step lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4426 lm (for 4ft)
Input Watts: 33.7 W
Efficacy: 131 lm/W
IES FILE: TB3SLED-1100-80-35-1.25M-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1522	1522	1522	1522	1522
10	1482	1479	1485	1486	1487
30	1161	1174	1174	1164	1160
50	694	727	751	760	761
70	286	337	388	419	427
90	25	83	145	180	187
110	17	58	98	129	140
130	9	40	73	94	103
150	6	24	44	56	62
170	2	8	15	19	21
180	0	0	0	0	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	143
10-20	402
20-30	580
30-40	659
40-50	647
50-60	569
60-70	449
70-80	314
80-90	191
90	
90-100	127
100-110	107
110-120	82
120-130	62
130-140	0
140-150	0
150-160	0
160-170	0
170-180	70
180	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	10929	11514	11535
55	9680	10835	11159
65	8474	10621	11382
75	7563	11618	13117
85	8110	21088	25819

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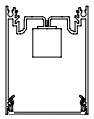
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Beam 3 | Surface mount

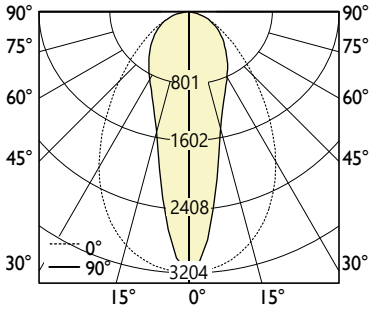
● PHOTOMETRIC DATA

NW Narrow lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4257 lm (for 4ft)
Input Watts: 38 W
Efficacy: 112 lm/W

IES FILE: TB3SLED-1000-80-35-NW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3204	3204	3204	3204	3204
5	3180	3125	2988	2870	2777
15	2952	2577	2046	1760	1649
25	2484	1924	1402	1224	1173
35	1853	1396	1044	958	933
45	1241	994	787	745	737
55	766	674	561	556	559
65	436	410	359	370	377
75	201	194	175	184	188
85	38	37	34	34	29
90	2	1	1	1	2

ZONAL LUMENS

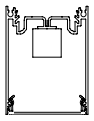
Zone	Lumens
0	
0-10	272
10-20	610
20-30	736
30-40	753
40-50	683
50-60	555
60-70	391
70-80	207
80-90	50
90	

LUMINANCE DATA (cd/m²)

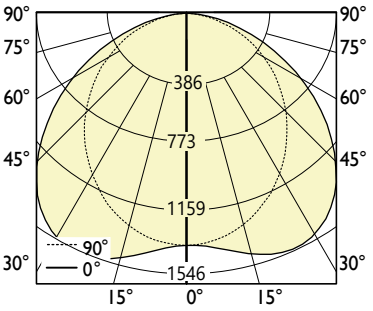
	Horizontal Angles		
Vertical Angle	0	45	90
45	17972	11392	10668
55	13677	10021	9983
65	10567	8693	9148
75	7944	6928	7427
85	4473	3964	3353

BW Batwing lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4399 lm (for 4ft)
Input Watts: 36.2 W
Efficacy: 122 lm/W

IES FILE: TB3DLED-1100-80-35-BW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1399	1399	1399	1399	1399
5	1391	1387	1391	1396	1398
15	1322	1332	1381	1431	1452
25	1195	1233	1351	1458	1499
35	1027	1092	1267	1397	1439
45	836	916	1107	1214	1237
55	634	710	872	937	939
65	425	484	593	613	600
75	223	255	304	298	286
85	49	60	67	61	58
90	4	4	4	4	4

ZONAL LUMENS

Zone	Lumens
0	
0-10	134
10-20	397
20-30	631
30-40	787
40-50	825
50-60	734
60-70	537
70-80	286
80-90	69
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	11273	14924	16678
55	10539	14492	15605
65	9599	13373	13538
75	8222	11204	10524
85	5358	7337	6371

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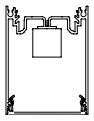
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Beam 3 | Surface mount

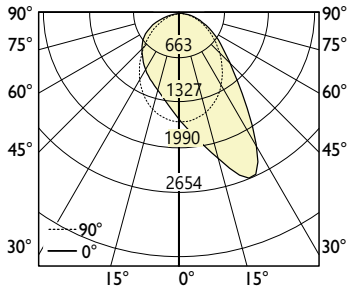
PHOTOMETRIC DATA

WW Wallwash lens

1000 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1699	1699	1699	1699	1699
5	1683	1765	1844	1897	1936
15	1583	1847	2127	2340	2439
25	1391	1839	2351	2578	2553
35	1139	1705	2108	1790	1597
45	868	1384	1406	1068	961
55	609	943	850	663	610
65	381	547	480	389	356
75	186	246	215	177	159
85	37	47	41	34	28
90	2	1	1	1	2

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	162
10-20	481
20-30	751
30-40	829
40-50	748
50-60	599
60-70	416
70-80	219
80-90	55
90	

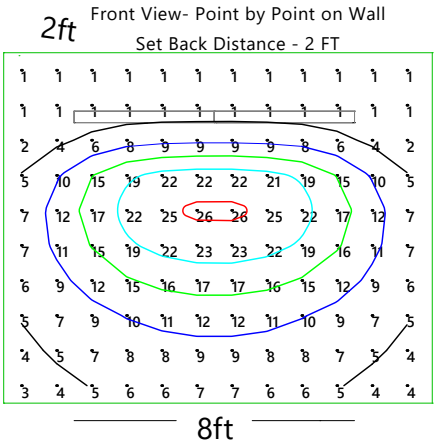
LUMINANCE DATA (cd/m²)

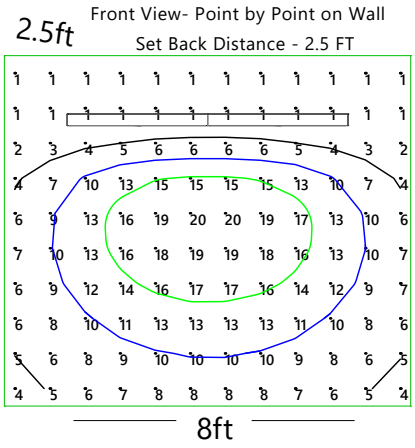
	Horizontal Angles		
Vertical Angle	0	45	90
45	12569	20360	13917
55	10877	15171	10892
65	9224	11630	8628
75	7348	8494	6301
85	4347	4825	3330

Lumen/ft down: 1000 lm/ft
Total Lumens: 4259 lm/4ft)
Input Watts: 37.73 W
Efficacy: 113 lm/W
IES FILE: TB3SLED-1000-80-35-WW-4.IES

TESTED ACCORDING TO IES LM-79-2008







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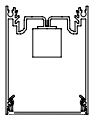
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Beam 3 | Surface mount

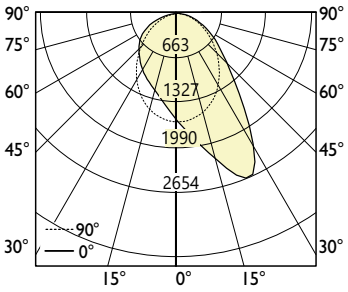
PHOTOMETRIC DATA

ASO Asymmetric lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4259 lm/4ft)
Input Watts: 37.73 W
Efficacy: 113 lm/W
IES FILE: TB3SLED-1000-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1699	1699	1699	1699	1699
5	1683	1765	1844	1897	1936
15	1583	1847	2127	2340	2439
25	1391	1839	2351	2578	2553
35	1139	1705	2108	1790	1597
45	868	1384	1406	1068	961
55	609	943	850	663	610
65	381	547	480	389	356
75	186	246	215	177	159
85	37	47	41	34	28
90	2	1	1	1	2

ZONAL LUMENS

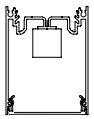
	Lumens
Zone	
0	
0-10	162
10-20	481
20-30	751
30-40	829
40-50	748
50-60	599
60-70	416
70-80	219
80-90	55
90	

LUMINANCE DATA (cd/m²)

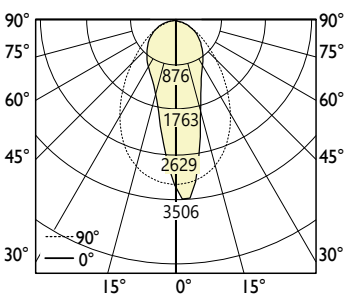
	Horizontal Angles		
Vertical Angle	0	45	90
45	12569	20360	13917
55	10877	15171	10892
65	9224	11630	8628
75	7348	8494	6301
85	4347	4825	3330

GZ Graze lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4246 lm/4ft)
Input Watts: 37.28 W
Efficacy: 114 lm/W
IES FILE: TB3DLED-1000-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3204	3204	3204	3204	3204
5	3173	3405	3506	3502	3474
15	2964	3194	2574	2128	1976
25	2503	2380	1592	1315	1250
35	1857	1633	1109	994	969
45	1219	1095	814	771	764
55	746	707	576	572	576
65	425	421	367	381	392
75	197	200	182	195	203
85	39	41	40	44	42
90	2	3	2	1	1

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	279
10-20	626
20-30	744
30-40	750
40-50	673
50-60	542
60-70	380
70-80	202
80-90	49
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	17701	11826	11087
55	13348	10311	10313
65	10329	8924	9521
75	7828	7223	8067
85	4562	4741	4954

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Date | Project

Notes

AS3 CHANNEL FIXTURE

AS3 Channel Fixture is a wide, low profile channel, the widest of the AS series. The 110-degree beam angle creates a wide, even spread of light and is ideal for cove applications. This can be used in conjunction with our tiltable stands, and includes a choice of clear, frosted or milky lens. Custom design a fixture with our AS3 Channel Fixture and RibbonLyte products.

- Available for field assembly or factory assembly
- Beam Angle 110°
- Wattage Range from 0.75 W/ft (2.46 W/m) to 8.8 W/ft (28.9 W/m)
- Static White delivered lumen range from 44.1 lm/ft (144.6 lm/m) up to 729 lm/ft (2392.5 lm/m)
- Assembled in USA





HOUSING FINISHES



Silver Standard | **Black*** | **White*** | **Custom RAL***

*Additional fee applies

AVAILABLE LENS FINISHES



Clear Lens
92% Light Transmission

Frosted Lens
85% Light Transmission

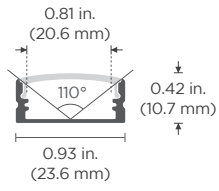
Milky Lens
70% Light Transmission

AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

AS3 Channel

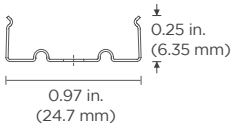


Width: 0.93 in. (23.6 mm)
Height: 0.42 in. (10.7 mm)
Internal Width: 0.81 in. (20.6 mm)

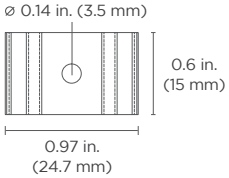
Mounting Clip (Included Accessory)

Material: stainless steel

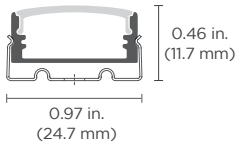
Side View



Top View



Assembled View



Width: 0.6 in. (15 mm)
Length: 0.97 in. (24.7 mm)
Height: 0.25 in. (6.35 mm)

Note:
1. Each section of channel includes **3 mounting clips**.
2. **Magnetic mounting** option available (see page 2)
3. **Exterior channel applications** should be securely attached to the mounting surface with appropriate screws and/or liquid nails. Acolyte strongly recommends field assembly for exterior applications. Use mounting clips for interior applications only.

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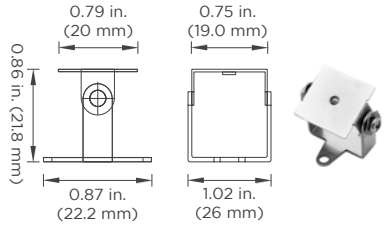
AS3 CHANNEL FIXTURE

SPECIFICATIONS

Beam Angle	110°
Lens Type	Clear Lens, Frosted Lens, Milky Lens
Length	Channel is sold by the foot and cut to your exact desired length. Required amount of mounting clips included.
Operating Voltage	24 V
Dimming	MLV / 0-10 Volt / ELV / DALI / DMX
Operating Temperature	-40 — 158 °F (-40 — 70 °C)
Colors	1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, RGBA, RGBW, RGBWW, VW, Warm Dim RGBW Addressable (1800K, 2000K, 2200K only available in IP20), Pixel RGB (IP20 only), RGBW Addressable (IP67 only)
CRI	90+ CRI (Static white only)
Lifetime (L70 reported)	50,000 hours
MacAdam ellipse (SDCM)	1-Step Binning (For Static White LEDs only)
Certifications	UL Listed UL 2108 Issued: 2004/02/27 Ed: 1 Rev: 2014/02/24 Low Voltage Lighting Systems CSA C22.2#9.0 Issued: 1996/06/01 Ed: 1 (R2011) General Requirements for Luminaries; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant

ACCESSORIES

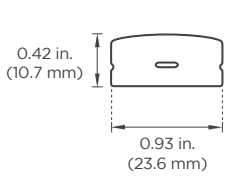
Tiltable Stand (Part #: TILTSTANDST)



Assembled Height with Channel: 1.22 in. (31 mm)

End Caps (Included Accessory)

Material: ABS



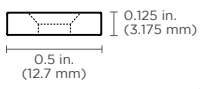
End Cap without hole

End Cap with hole

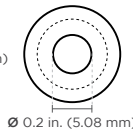
Magnetic Mount (Part #: CHMAG0.5)



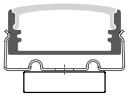
Side View



Top View



Assembled View



Features:
- High-energy neodymium magnets come attached to mounting clips with countersink hex nuts
- Create easy-mount magnetic channels with minimal surface gaps; no tools or drilling necessary
- Magnets rated for 8 lbs. of pull force with static load

Applications:
- Industrial lighting retrofits for troffers and other metal fixtures
- Metal retail shelf lighting
- Temporary light fixture installations

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GEN LED acolyte® Architectural Lighting Solutions

ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS		HOUSING COLOR	
CHAS3				
CHAS3 - AS3 Channel	**C** - Clear Lens*	**M** - Milky Lens	**SV** - Silver (default)	**WH** - White
	F - Frosted Lens	* Clear lens is the default option if not specified.	**BK** - Black	
			Consult factory for custom colors	

STEP 2 Complete RibbonLyte Part Number

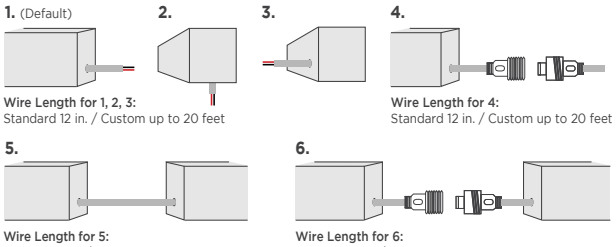
CATEGORY	CRI	RIBBON TYPE & IP RATING		
RB				
RB - RibbonLyte	**0** - Static Color, Color Changing	**SWS220** - Static White Series 2 IP20	**LINEA20** - Linea RibbonLyte IP20	**VWS220** - VW Series 2 IP20
	90 - 90+ CRI Static White	**SWS265** - Static White Series 2 IP65	**RGBWS220** - RGBW Series 2 IP20	**VWS265** - VW Series 2 IP65
		SWS268 - Static White Series 2 IP68	**RGBWS265** - RGBW Series 2 IP65	**VWS268** - VW Series 2 IP68
		SCS220 - Static Color Series 2 IP20	**RGBWS268** - RGBW Series 2 IP68	**WD20** - Warm Dim IP20
		SCS265 - Static Color Series 2 IP65	**RGBWW20** - RGBWW 5-in-1 IP20	**WD65** - Warm Dim IP65
		SCS268 - Static Color Series 2 IP68	**RGBWADD** - Addressable RGBW	**WD68** - Warm Dim IP68
		XACTA20 - Xacta RibbonLyte IP20	**RGBADD** - Pixel RGB IP20	

NOTE: To ensure waterproofing standards are met, IP65 and IP68 RibbonLyte can NOT be cut in the field.

WATTAGE	COLOR	
0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)	**18** - 1800K	**RGB27** - Red, Green, Blue + 2700K
1.0 - 1.0 W/ft (3.3 W/m - Variable White)	**20** - 2000K	**RGB30** - Red, Green, Blue + 3000K
1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color, Variable White)	**22** - 2200K	**RGB40** - Red, Green, Blue + 4000K
2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)	**24** - 2400K	**RGB2465** - Red, Green, Blue + 2400K + 6500K
2.4 - 2.4 W/ft (8 W/m - Static White Linea)	**27** - 2700K	**RGBA** - Red, Green, Blue + Amber
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)	**30** - 3000K	**RGBW30** - RGB + 3000K Addressable
4.3 - 4.3 W/ft (14 W/m - Static White Linea)	**35** - 3500K	**RGBW40** - RGB + 4000K Addressable
4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color, RGBW, RGBWW, RGBA)	**40** - 4000K	**RGBW60** - RGB + 6000K Addressable
4.5 - 4.5 W/ft (14.8 W/m - Static White, Variable White)	**60** - 6000K	**RGBS** - Pixel RGB (SPI)
5.0 - 5.0 W/ft (16.4 W/m - Static White, Static Color)	**R** - Red	**VW** - Variable White
5.2 - 5.2 W/ft (17.1 W/m - Warm Dim)	**A** - Amber	**2920** - Warm Dim 2900K - 2000K (IP20)
5.3 - 5.3 W/ft (17.5 W/m - Pixel RGB)	**G** - Green	**2721** - Warm Dim 2700K - 2100K (IP65+IP68)
5.5 - 5.5 W/ft (18.0 W/m - RGBW, RGBA)	**B** - Blue	**Z** - Undecided**
6.0 - 6.0 W/ft (19.7 W/m - Static White, Static Color, Variable White, RGBW Addressable)		** For quotes only. Must be chosen before final order.
6.1 - 6.1 W/ft (20 W/m - Variable White Linea)		
8.8 - 8.8 W/ft (28.9 W/m - RGBW, RGBWW)		

CONNECTION OPTIONS (See diagrams on the right) **Custom Length** (ft.)

1 - End Feed Bare Wire Connection
2 - Back Feed Bare Wire Connection
3 - Side Feed Bare Wire Connection
4 - End Feed with IP67 Male Coupler
5 - Soldered Daisy Chain
6 - Daisy Chain With IP67 Couplers



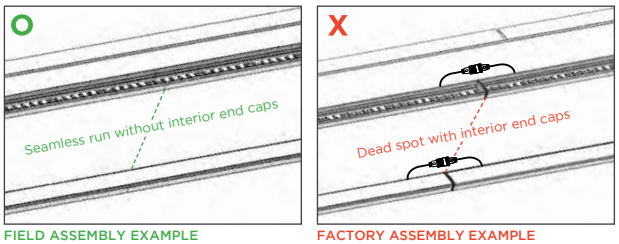
STEP 3 Complete Assembly Option & Length

ASSEMBLY OPTION	LENGTH (Standard factory assembled length up to 6 ft 6.7 in. / 2 m)
FI - Field Assembly	
FA - Factory Assembly* (not recommended for exterior applications)	

* Factory assembled runs exceeding 6 ft 6.7 in. (2 m) will be split into multiple daisy chained fixtures.

DO NOT BUTT END CAPS AGAINST EACH OTHER WHEN CREATING LONGER FIXTURES

Acolyte STRONGLY SUGGESTS field assembly (without using interior end caps) for direct-view fixtures of more than 6 ft 6.7 in. (2 m) in length. Field assembly without interior end caps will eliminate gaps or dead spots that can be caused by butting interior end caps against each other.



FIELD ASSEMBLY EXAMPLE FACTORY ASSEMBLY EXAMPLE

STEP 4 Add Accessories

ACCESSORIES	
TILTSTANDST - Tiltable Stand	**CHMAG0.5** - Magnetic Mount

GEN LED acolyte® Architectural Lighting Solutions

AS3 CHANNEL FIXTURE

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens		Delivered Lumens with Frosted Lens		Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m	lm/ft	lm/m	lm/ft	lm/m		IP20	IP65	IP68
0.75 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	58	190.3	53.6	175.8	44.1	144.6	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2000K	99	68.3	224	63.1	207	52	170.6				
			2200K	109	75.2	246.7	69.5	228	57.2	187.6				
			2400K	113	78	255.8	72	236.2	59.3	194.5				
			2700K	123	84.9	278.5	78.4	257.2	64.6	211.9				
			3000K	123	84.9	278.5	78.4	257.2	64.6	211.9				
			3500K	130	89.7	294.2	82.9	272	68.3	224				
			4000K	134	92.5	303.4	85.4	280.1	70.4	230.9				
			6000K	131	90.4	296.5	83.5	273.9	68.8	225.7				
1.5 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	115.9	380.2	107.1	351.3	88.2	289.3	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2000K	98	135.2	443.5	125	410	102.9	337.5				
			2200K	109	150.4	93.3	139	455.9	114.5	375.6				
			2400K	113	155.9	511.4	144.1	472.6	118.7	389.3				
			2700K	123	169.7	556.6	156.8	514.3	129.2	423.8				
			3000K	123	169.7	556.6	156.8	514.3	129.2	423.8				
			3500K	129	178	583.8	164.5	539.6	135.5	444.4				
			4000K	134	184.9	606.5	170.9	560.6	140.7	461.5				
			6000K	131	180.8	593	167	547.8	137.6	451.3				
2.2 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	83	168	551	155.2	509.1	127.8	419.2	IP20: 42 ft (12.8 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2000K	96	194.3	637.3	179.5	588.8	147.8	484.8				
			2200K	106	214.5	703.6	198.2	650.1	163.2	535.3				
			2400K	111	224.7	737	207.6	680.9	170.9	560.6				
			2700K	120	242.9	796.7	224.4	736	184.8	606.1				
			3000K	122	246.9	809.8	228.1	748.2	187.9	616.3				
			3500K	127	257	843	237.5	779	195.6	641.6				
			4000K	133	269.2	883	248.7	779	204.8	671.7				
			6000K	128	259.1	849.8	239.4	785.2	197.1	646.5				
3.0 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	2400K	109.8	303.1	994.1	280.1	918.6	230.6	756.5	IP20: 36 ft (11 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2700K	122.9	339.6	1114	313.5	1028.1	258.1	846.7				
			3000K	130	359.1	1177.9	331.4	1087.1	273	895.3				
			3500K	133	367.5	1205.3	339.2	1112.4	279.3	916.1				
			4000K	133	367.5	1205.3	339.2	1112.4	279.3	16.1				
			6000K	127	350.8	1150.5	323.7	1061.8	266.6	874.5				
4.4 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	2400K	109	441.2	1447	407.7	1337.1	335.7	1101.2	28 ft 4 in. (8.64 m)	✓	✓	✓
			2700K	122	494.4	1621.6	456.3	1496.6	375.8	1232.5				
			3000K	129	522.8	1714.7	482.5	1582.5	397.3	1303.2				
			3500K	132	534.9	1754.5	493.7	1619.3	406.6	1333.5				
			4000K	132	534.9	1754.5	493.7	1619.3	406.6	1333.5				
			6000K	126	510.6	1674.8	471.2	1545.7	388.1	1272.9				
5.0 Static White Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	2400K	109.8	505.1	1656.8	466.8	1531	384.4	1260.8	IP20: 33 ft 4 in. (10.1 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2700K	122.9	566.1	1856.7	522.4	1713.6	430.2	1411.2				
			3000K	130	598.5	1963.2	552.4	1811.9	454.9	1492.1				
			3500K	133	612.5	2008.9	565.3	1854	465.5	1526.8				
			4000K	133	612.5	2008.9	565.3	1854	465.5	1526.8				
			6000K	127	584.6	1917.6	539.6	1769.7	444.3	1457.4				
6.0 Static White Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	2400K	109	601.6	1973.2	555.9	1823.4	457.8	1501.6	28 ft (8.5 m)	✓	✓	✓
			2700K	122	674.2	2211.3	622.2	2040.8	512.4	1680.7				
			3000K	129	712.9	2338.2	657.9	2157.9	541.8	1777.1				
			3500K	132	729.4	2392.5	673.2	2208.1	554.4	1818.4				
			4000K	132	729.4	2392.5	673.2	2208.1	554.4	1818.4				
			6000K	126	696.3	2283.8	642.6	2107.7	529.2	1735.8				

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens		Delivered Lumens with Frosted Lens		Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m	lm/ft	lm/m	lm/ft	lm/m		IP20	IP65	IP68
0.75 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	41	28	93	26	86	22	70.6	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			Green	175	121	396	112	366	92	301.4				
			Blue	19	13	43	12	40	10	32.7				
			Amber	34	23	77	22	71	18	58.6				
1.5 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	58	190	54	176	44	144.7	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			Green	160	221	724	204	669	168	551.1				
			Blue	18	25	81	23	75	19	62				
			Amber	34	47	154	43	142	36	117.1				
2.2 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	85	279	79	258	65	212.2	IP20: 42 ft (12.8 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			Green	145	293	963	271	889	223	732.4				
			Blue	18	36	119	34	110	28	90.9				
			Amber	33	67	219	62	202	51	166.7				
3.0 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	40	110.4	362.1	102	334.6	84	275.52	32.8 ft (10 m)	✓	✓	✓
			Green	127	350.9	1151	323.9	1062.2	266.7	874.78				
			Blue	25	69.1	226.6	63.8	209.1	52.5	172.2				
			Amber	29	80.1	262.8	74	242.6	60.9	199.75				
4.4 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	38	153.8	504.5	142.1	466.2	117	383.89	29 ft (8.8 m)	✓	✓	✓
			Green	117	474.1	1555.1	437.6	1435.3	360.4	1181.98				
			Blue	24	97.3	319	89.8	294.4	73.9	242.46				
			Amber	25	101.3	332.2	93.5	306.7	77	252.56				
5.0 Static Color Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	Red	37	170.2	558.2	157.3	515.8	129.5	424.76	30 ft (9.14 m)	✓	✓	✓
			Green	116	534.2	1752.1	493	1617	406	1331.68				
			Blue	24	110.5	362.5	102	334.6	84	275.52				
			Amber	26	119.7	392.7	110.5	362.4	91	298.48				
6.0 Static Color Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	Red	37	204.2	669.8	188.7	618.9	155.4	509.71	28 ft (8.5 m)	✓	✓	✓
			Green	113	624.4	2048.2	576.3	1890.3	474.6	1556.6				
			Blue	23	127.1	416.9	117.3	384.8	96.6	316.9				
			Amber	24	132.6	435	122.4	401.6	100.8	330.7				
2.4 Static White Linea	1.97 in. (50 mm)	146 LEDs/ft (480 LEDs/m)	2700K	67	148.1	485.8	136.9	448.8	112.7	369.6	21.3 ft (6.5 m)	✓	N/A	N/A
			3000K	71	156.4	514.3	144.5	475.2	119	391.3				
			3500K	83	183.1	601.7	169.2	555.9	139.3	457.8				
			4000K	83	183.1	601.7	169.2	555.9	139.3	457.8				
3.0 Static White Linea	1.97 in. (50 mm)	146 LEDs/ft (480 LEDs/m)	2700K	66	182.2	598	168.3	552.5	138.6	455	21.3 ft (6.5 m)	✓	N/A	N/A
			3000K	73	201.5	661.5	186.2	611.2	153.3	503.3				
			3500K	78	215.3	706.6	198.9	652.8	163.8	537.6				
			4000K	83	229.1	751.6	211.7	694.5	174.3	571.9				
4.3 Static White Linea	1.97 in. (50 mm)	146 LEDs/ft (480 LEDs/m)	2700K	75	297.2	973.4	274.6	899.3	226.1	740.6	24.6 ft (7.5 m)	✓	N/A	N/A
			3000K	78	308.2	1012	284.8	935	234.5	770				
			3500K	86	340.4	1116.9	314.5	1031.9	259	849.8				
			4000K	86	340.4	1116.9	314.5	1031.9	259	849.8				
6.1 Variable White Linea	1.09 in. (27.78 mm)	175 LEDs/ft (576 LEDs/m)	2700K + 6500K	95	533.6	1750.8	493	1617.6	406	1332.1	16.4 ft (5 m)	✓	N/A	N/A

GEN LED acolyte® Architectural Lighting Solutions

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens		Delivered Lumens with Frosted Lens		Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m	lm/ft	lm/m	lm/ft	lm/m		IP20	IP65	IP68
1.5 Static White Xacta	0.2 in. (5 mm)	61 LEDs/ft (200 LEDs/m)	1800K	71	110.2	361.6	101.8	334.1	83.9	275.1	32.74 ft (9.98 m)	✓	n/a	n/a
			2000K	84	130.1	426.8	120.2	394.3	99	324.7				
			2200K	92	142.7	468.3	131.9	432.6	108.6	356.3				
			2400K	96	148.2	486.1	136.9	449.1	112.7	369.8				
			2700K	109	168	551.3	155.3	509.3	127.9	419.4				
			3000K	113	175.3	575	161.9	531.2	133.4	437.5				
			3500K	117	180.7	592.8	166.9	547.7	137.5	451				
			4000K	115	177.1	580.9	163.6	536.7	134.7	442				
			6000K	112	173.5	569	160.3	525.7	132	433				
3.0 Static White Xacta	0.2 in. (5 mm)	61 LEDs/ft (200 LEDs/m)	1800K	71	196.3	643.9	181.3	594.9	149.3	489.9	23.62 ft (7.2 m)	✓	n/a	n/a
			2000K	84	231.6	760	214	702.2	176.2	578.3				
			2200K	92	254.2	833.9	234.8	770.5	193.4	634.5				
			2400K	95	263.8	865.6	243.7	799.7	200.7	658.6				
			2700K	108	299.2	981.7	276.4	907	227.7	747				
			3000K	113	312.1	1023.9	288.3	946	237.4	779.1				
			3500K	116	321.7	1055.6	297.2	975.3	244.8	803.2				
			4000K	114	315.3	1034.5	291.3	955.8	239.9	787.1				
			6000K	111	308.9	1013.4	285.4	936.3	235	771.1				
4.5 Static White Xacta	0.2 in. (5 mm)	61 LEDs/ft (200 LEDs/m)	1800K	72	299.6	983	276.8	908.2	228	747.9	19.03 ft (5.8 m)	✓	n/a	n/a
			2000K	85	353.7	1160.3	326.7	1072	269.1	882.8				
			2200K	93	388	1273.1	358.5	1176.2	295.2	968.6				
			2400K	97	402.8	1321.4	372.1	1220.9	306.5	1005.4				
			2700K	110	456.8	1498.7	422	1384.6	347.6	1140.3				
			3000K	114	476.5	1563.1	440.2	1444.2	362.5	1189.3				
			3500K	118	491.2	1611.5	453.8	1488.9	373.7	1226.1				
			4000K	116	481.4	1579.2	444.7	1459.1	366.3	1201.6				
			6000K	113	471.5	1547	435.7	1429.3	358.8	1177.1				
1.5 Variable White Xacta	0.2 in. (5 mm)	122 LEDs/ft (400 LEDs/m)	2400K + 6000K	138	189.1	620.4	174.7	573.2	143.9	472	32.15 ft (9.8 m)	✓	n/a	n/a
3.0 Variable White Xacta	0.2 in. (5 mm)	122 LEDs/ft (400 LEDs/m)	2400K + 6000K	136	371.1	1217.7	342.9	1125.1	282.4	926.5	22.31 ft (6.8 m)	✓	n/a	n/a
4.5 Variable White Xacta	0.2 in. (5 mm)	122 LEDs/ft (400 LEDs/m)	2400K + 6000K	134	524.2	1719.8	484.3	1588.9	398.9	1308.5	19.03 ft (5.8 m)	✓	n/a	n/a
1.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	85	78.2	257	72.3	237	60	200	32.8 ft (10 m)	✓	✓	✓
3.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	80	220.8	725	205	670	168	551.2	32.8 ft (10 m)	✓	✓	✓
6.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	75	415	1362	382.5	1255	315	1033.5	19 ft 8 in. (6 m)	✓	✓	✓
4.4 RGBW Series 2	1.97 in. (50 mm)	36 LEDs/ft (120 LEDs/m)	RGBW	45	188.1	617.2	168.3	552.2	148.5	487.2	19 ft 8 in. (6 m)	✓	N/A	N/A
5.5 RGBW Series 2	1.97 in. (50 mm)	36 LEDs/ft (120 LEDs/m)	RGBW	59	308.8	1013	275.8	904.9	243.3	798.5	IP65: 16 ft 4 in. (5 m) IP68: 19 ft 7.9 in. (6 m)	N/A	✓	✓
8.8 RGBW Series 2	1.97 in. (50 mm)	36 LEDs/ft (120 LEDs/m)	RGBW	61	510.2	1673.8	456.3	1497.1	402.6	1320.9	16 ft 4 in. (5 m)	✓	N/A	N/A
4.4 5-in-1 RGBWW	2.46 in. (62.5 mm)	29 LED/ft (96 LED/m)	RGBWW	59	241.4	792.1	220.7	724	194.7	638.8	16 ft 4 in (5 m)	✓	N/A	N/A
8.8 5-in-1 RGBWW	2.46 in. (62.5 mm)	29 LED/ft (96 LED/m)	RGBWW	50	409.2	1342.6	374	1227.1	330	1082.7	11 ft 6 in (3.5 m)	✓	N/A	N/A
RGBW Addressable	3.94 in. (100 mm)	18 LEDs/ft (60 LEDs/m)	Red	33.5	30.8	101.2	28.5	93.5	23.5	77 l	16 ft 5.64 in. (5.02 m)	N/A	N/A	✓ IP67
			Green	82	75.4	247.5	69.7	228.7	57.4	188.3				
			Blue	15.5	14.2	46.7	13.2	43.2	10.8	35.6				
			White	103	94.8	310.9	87.6	287.3	72.1	236.6				
			All	40	222.8	730.8	205.8	675.2	169.5	556.1				
5.3 Pixel RGB	3.94 in. (100 mm)	18 LEDs/ft (60 LEDs/m)	RGB (all on)	21	114.54	375.36	105.83	346.8	87.15	285.6	24 ft 7.2 in. (7.5 m)	✓	n/a	n/a
5.2 Warm Dim	3.94 in. (100 mm)	36 LEDs/ft (120 LEDs/m)	WARM DIM	55	263.1	863	244.8	803.25	201.6	661.5	16 ft 4 in. (5 m)	✓	✓	✓

DIODE VISIBILITY CHART (Data below applies to installations with Milky lens only)



No Visible Diode = N

Note: Linea RibbonLyte has no visible diode



With Visible Diode = Y

Static White & Static Color Series 2				Static White & Static Color Xacta	RGBW & RGBA Series 2		5-in-1 RGBWW	5-in-1 RGBWW	Pixel RGB	RGBW Addressable	Variable White Series 2	Warm Dim
0.75/1.5/2.2	3.0/4.4		5.0/6.0	1.5/3.0/4.5	4.4/8.8	5.5	4.4	8.8	5.3	6.0	1.0/3.0/6.0	5.2
IP20/IP65/IP68	IP20/IP65	IP68	IP20/IP65/IP68	IP20	IP20	IP65/IP68	IP20	IP20	IP20	IP67	IP20/IP65/IP68	IP20/IP65/IP68
Y	N	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y

GEN LED acolyte® Architectural Lighting Solutions

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

NON-DIMMING ELECTRONIC DRIVERS



30W, 60W, 96W Non-Dimming Electronic Class 2 Drivers

Part No.:
- DRVW2430 (30 W)
- DRVW2460 (60 W)
- DRVW2496 (96 W)

24 VDC
120-277 VAC
IP65, dry/damp locations
UL Listed



240W, 320W Non-Dimming Electronic Drivers

Part No.:
- DRVW24240 (240 W)
- DRVW24320 (320 W)

24 VDC
90-305 VAC
IP65, dry/damp locations
UL Recognized



60W, 96W Non-Dimming Compact Drivers

Part No.:
- DRV2460C (60 W)
- DRV2496C (96 W)

24 VDC
120-277 VAC
IP20, dry locations
UL Class P

0-10V/ELV/MLV 3-IN-1



60W, 96W, 288W 0-10V/ELV/MLV 3-in-1 Dimmable Drivers

Part No.:
- DRVW2460TRI010 (60 W)
- DRVW2496TRI010 (96 W)
- DRVW24288TRI010 (288 W)

24 VDC
120-277 VAC
IP65, dry/damp/wet locations
UL Listed

ELV



60W Dimmable Driver

Part No.:
- DRVW2460ELV

24 VDC
100-130 VAC
Fits in single-gang switch boxes
IP20, dry locations
UL Recognized

0-10V VW/WD



0-10V Dimmable 90W VW/WD Driver

Part No.:
- DRVRFWDVW2490120

24 VDC
100-277 VAC
IP23, dry/damp locations
UL Listed

ATHENA WIRELESS COMPATIBLE



94W Athena Wireless Compatible Drivers

Part No.:
- DRVW2494ATH1CH (1 channel)
- DRVW2494ATH2CH (2 channel)

24 VDC
100-277 VAC
Dry locations
UL Listed

CASAMBI COMPATIBLE DRIVERS



100W & 200W Casambi Compatible 4 Channel Drivers

Part No.:
- DRVW24100CAS4CH (100 W)
- DRVW24200CAS4CH (200 W)

24 VDC
100-277 VAC
IP66, dry/damp/wet locations
UL Listed, CE, RoHS, Bluetooth, CASAMBI

DIMMABLE DALI-2 DRIVERS



96W DIMMABLE DALI-2 DT6 D4I & DALI-2 DT8 D4I DRIVERS

Part No.:
- DRVW2496DALI1CH (1 channel)
- DRVW2496DALI2CH (2 channel)

24-26 VDC
120-277 VAC
IP67, dry/damp/wet locations
UL Listed

DIMMABLE DALI-2 DRIVERS



75W, 150W, 240W DALI-2 Dimmable Drivers

Part No.:
- DRVW2475DALI1CH (75 W, 1 channel)
- DRVW24150DALI1CH (150 W, 1 channel)
- DRVW24240DALI1CH (240 W, 1 channel)
- DRV24150DALI2CH (150 W, 2 channels)
- DRV24150DALI4CH (150 W, 4 channels)

24 VDC
120-277 VAC
IP67, damp/wet locations (1-channel drivers only)
IP20, dry location (2-channel & 4-channel drivers only)
CE, RoHS, SELV

DMX CONTROLLERS, VARIABLE WHITE DIMMER, WARM DIM DIMMER - FOR COLOR CHANGING FIXTURES



GLASS TOUCH WALL CONTROLLERS
Part No.:
- AWCRGBWWBK
- AWCVWBK



1 ZONE WALL CONTROLLER
Part No.: DMXCTRLG



5 ZONE WALL CONTROLLER
Part No.: DMXCTRL



10 ZONE WALL CONTROLLER
Part No.: DMXCTRLD



6 UNIVERSE DMX CONTROLLER
Part No.: DMXCTRLDR6U



VARIABLE WHITE DIMMER
Part No.:
- RFDIMVWWH (White)
- RFDIMVWBK (Black)



WARM DIM DIMMER
Part No.:
- RFDIMWDWH (White)
- RFDIMWDBK (Black)



4 CHANNEL WATERPROOF DMX INTERFACE
Part No.: DMXINFWLCD4



5 CHANNEL DMX DECODER
Part No.: DMXINF5



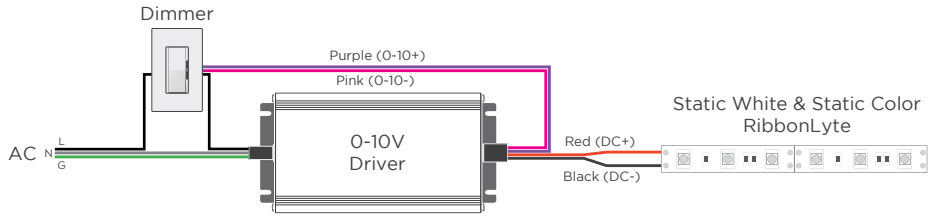
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

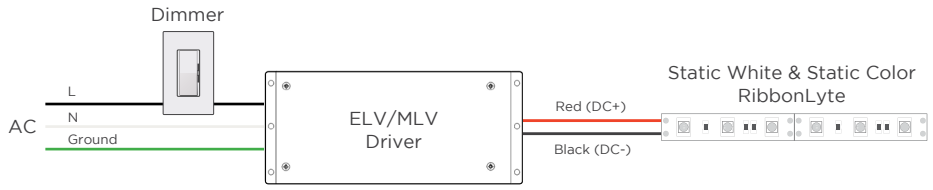
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG / 0.5 mm²	35	10.67	23	7.01	14	4.27	9	2.74	7	2.13	5.75	1.75	4.5	1.37	4.25	1.30
18 AWG / 0.75 mm²	56	17.07	37	11.28	23	7.01	15	4.57	11	3.35	9	2.74	7.5	2.29	7	2.13
16 AWG / 1.5 mm²	90	27.44	60	18.29	37	11.28	24	7.32	18	5.49	15	4.57	12	3.66	11	3.35
14 AWG / 2.5 mm²	142	43.29	95	28.96	59	17.99	38	11.59	28	8.54	23	7.01	19	5.79	17	5.18
12 AWG / 4 mm²	226	68.90	151	46.04	94	28.66	60	18.29	45	13.72	37	11.28	30	9.15	28	8.54
10 AWG / 6 mm²	360	109.76	240	73.17	150	45.73	96	29.27	72	21.95	60	18.29	48	14.63	45	13.72
8 AWG / 10 mm²	574	175.00	381	116.16	239	72.87	153	46.65	115	35.06	95	28.96	76	23.17	71	21.65

WIRING DIAGRAMS - STATIC WHITE / STATIC COLOR / RGBW / RGBA / RGBWW

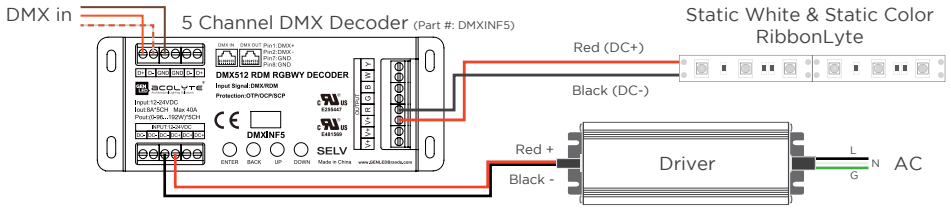
0-10 V



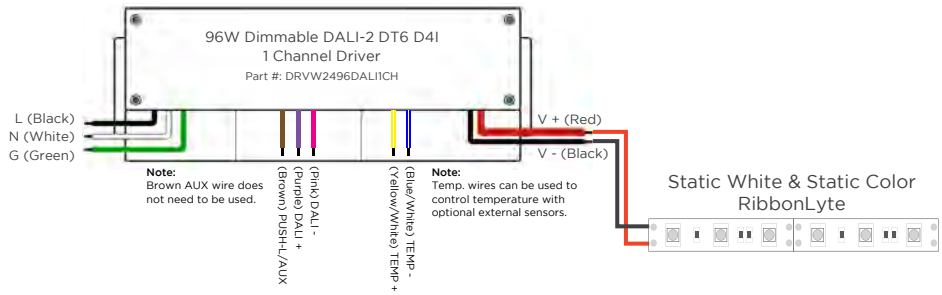
MLV / ELV



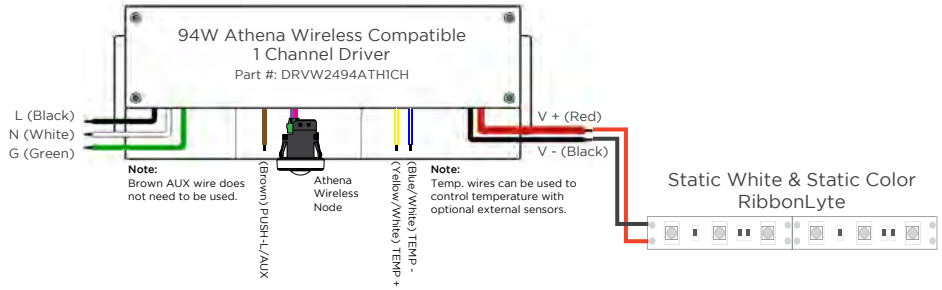
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



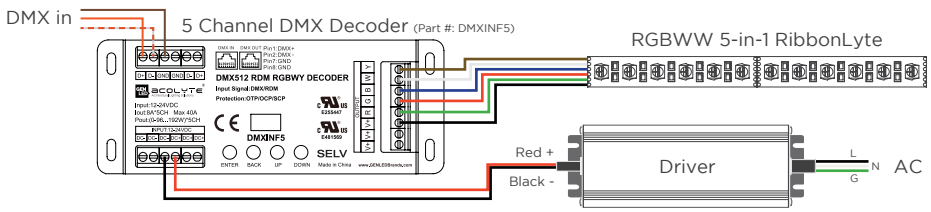
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



STATIC WHITE & STATIC COLOR RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



DMX WITH RGBWW 5-IN-1 RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

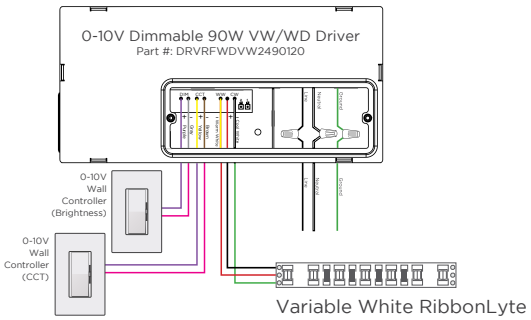
STATIC WHITE + STATIC COLOR
Red Wire (+) Positive
Black Wire (-) Negative

RGBW + RGBA
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

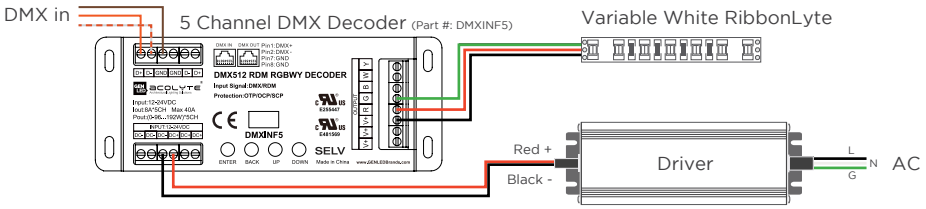
RGBWW
Black (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel 1
Brown Wire (-) goes to White Channel 2

WIRING DIAGRAMS - VARIABLE WHITE

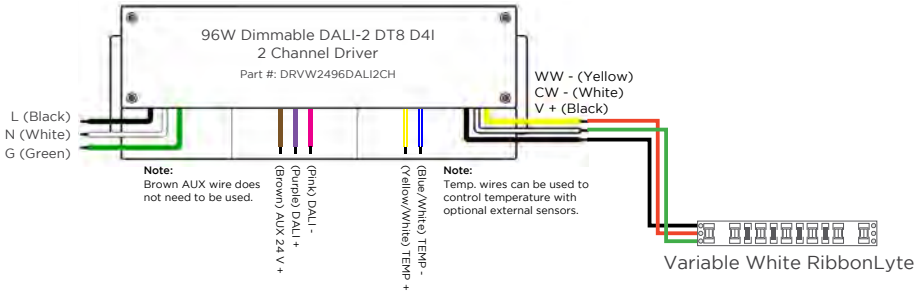
2-CHANNEL VARIABLE WHITE DIMMING



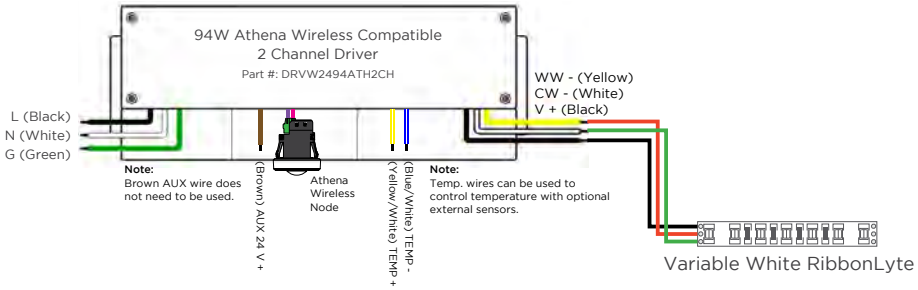
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



WIRE COLORS PER RIBBONLYTE COLOR

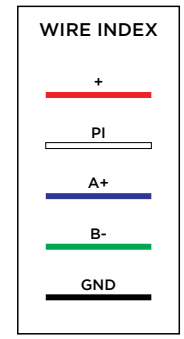
VARIABLE WHITE
Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
Green Wire (-) goes to Cool White Channel

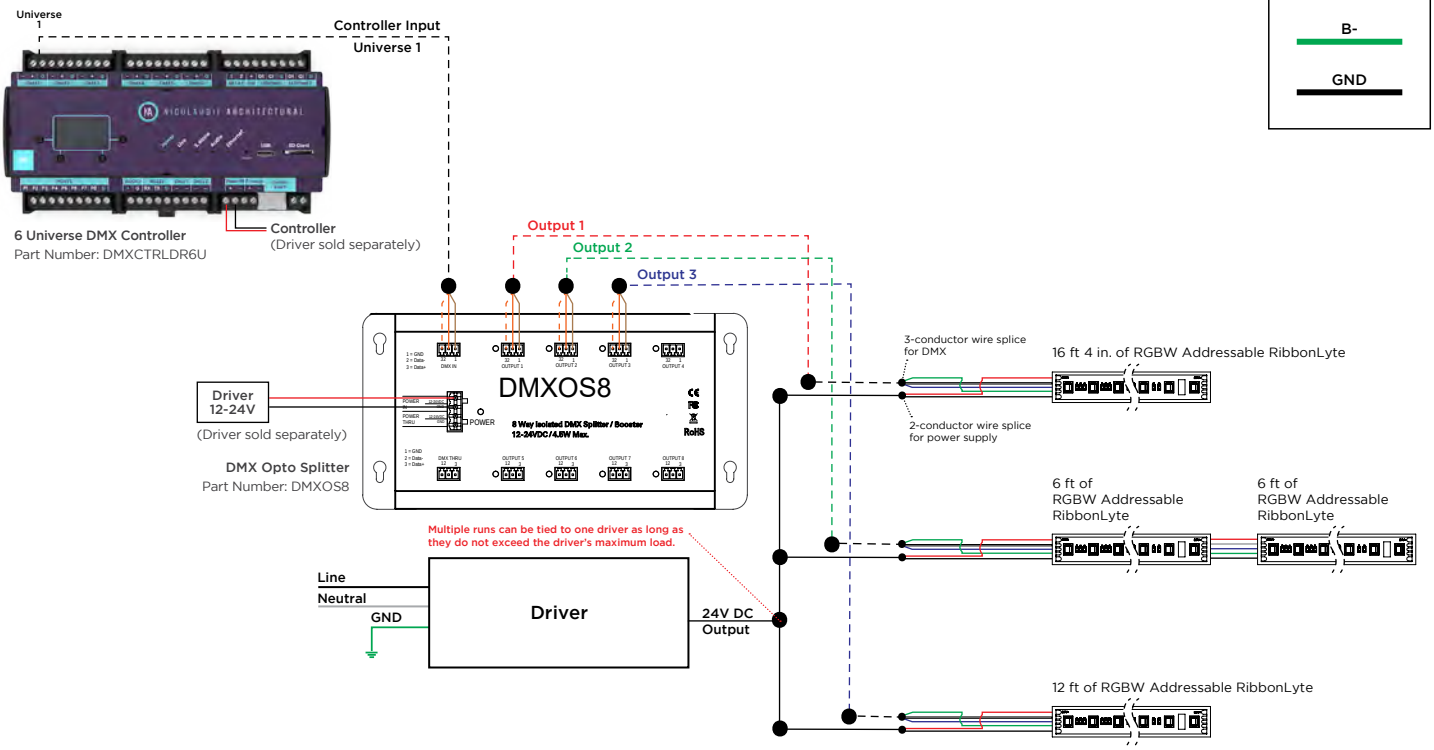
WIRING DIAGRAMS WITH RGBW ADDRESSABLE RIBBONLYTE

One DMX Universe consists of 128 addresses and 512 channels (42 ft, 8 in. of RibbonLyte).

Any single run of RibbonLyte that is less than 16 ft, 4 in. can be wired directly to the controller.

For additional runs, Opto Splitter must be used. Each individual run will need its own Opto Splitter output.





REV.05DEC2025

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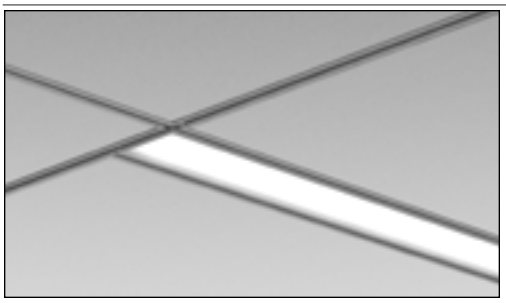
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E: Sales-Pacific@GENLEDBrands.com

BEAM SQUARE 2

RECESSED MOUNT



Spotless Lens

Project _____

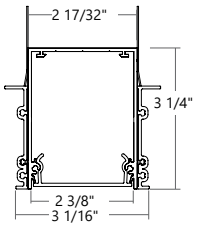
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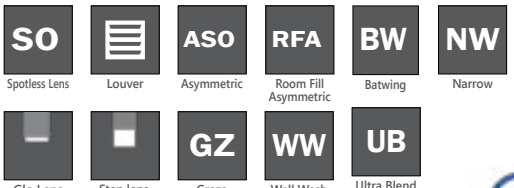
Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1000 lm/ft	8.5 W/ft	118 lm/W	SO
750 lm/ft	7.6 W/ft	106 lm/W	GZ
750 lm/ft	7.5 W/ft	107 lm/W	NW
750 lm/ft	7.6 W/ft	107 lm/W	ASO
1000 lm/ft	10 W/ft	100 lm/W	BW
1000 lm/ft	7.9 W/ft	126 lm/W	1M
1000 lm/ft	9.4 W/ft	98 lm/W	WFBL
750 lm/ft	7.6 W/ft	107 lm/W	WW
1000 lm/ft	8.4 W/ft	119 lm/W	0.25G
1000 lm/ft	9.5 W/ft	106 lm/W	UB
1000 lm/ft	9.4 W/ft	107 lm/W	RFA

Please consult factory for custom lumen output and wattage.





Ordering Guide

B2SQRLED

PRODUCT ID	NOM. LUMENS/FT	CRI	COLOR TEMP. (choose one)	SHIELDING
B2SQRLED Recessed LED	**300** 300 lm/ft - **min**	**80** 80 CRI	**27** 2700 K	**TW2750** 2700-5000 K - Tunable White	**SO** spotless lens
	750 750 lm/ft - **max for GZ, NW, WW, ASO***	**90** 90 CRI*	**30** 3000 K	**TW2765** 2700-6500 K - Tunable White	**BFBL** black flat blade louver
	1000 1000 lm/ft - **max**		**35** 3500 K	**BTW3527** 3500-2700 K - Tunable BIOS	**WFBL** white flat blade louver
			40 4000 K	**BTW4027** 4000-2700 K - Tunable BIOS	**GFBL** grey flat blade louver
			B30 3000 K - BIOS*		**0.25G** 0.25" Glo lens
			B35 3500 K - BIOS*		**UB** ultra blend lens*
			B40 4000 K - BIOS*		**1M** 1" StepLens , lum. end cap
					ASO Asymmetric (flush only)
					BW Batwing (flush only)
					NW Narrow (flush only)
					GZ Graze (flush only)
					WW Wallwash (flush only)
					RFA room fill asymmetric
	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, NW, WW and ASO. Consult factory for outputs outside of the listed range. Consult factory for max output with BIOS.	* Not available with BIOS.	Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology	*Default lens for Tunable white and BIOS. Consult factory for other lens

LENGTH	MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER	CIRCUITS
2 2′	**DMLED(#)** downlight module LED	**W** white	**120** 120 V	**DP** dimming (0-10V) 1%	**1** 1 circuit
3 3′		**BLK** black	**277** 277 V	**LT(#)** Lutron*	**2** 2 circuits
4 4′		**C** custom	**347** 347 V	**BI** bi-level dimming	**+E(#)** emergency circuit*
5 5′			**UNV** universal	**O(#)** other**	**+NL(#)** night light circuit*
6 6′			**DC** low voltage*	**DPB(STC)** dimming (0-10V) 1% with BIOS*	**+GTD(#)** generator transfer device*
8 8′				**DPB(DYN)** Biodimming™ 100%-50% with BIOS*	**+M** MR
12 12′				**TW(#)** tunable white drivers*	
S(L) system run				**POE(#)** POE drivers*	
	Add 6" per lamp. Specify quantity. Separate circuits included Requires 120V or 277. Available in luminaires with Axitune and BIOS but downlight modules will not be tunable white or BIOS LEDs		* Only available with POE drivers.	*See page 2 to specify system **Please consult factory; see page 2	*Specify quantity

MOUNTING	OTHER (OPTIONAL)	OTHER (OPT.)	IC CONTROLS (OPT.)	CUSTOM (OPT.)
TB9 t-bar 9/16"	**B(#)** battery pack (integral)	**FW** flex whip (6′ std) *	**DS(#)** daylight sensor	**C** custom
TB15 t-bar 15/16"		**CP** Chicago plenum	**OS(#)** occupancy sensor	
ST screw slot t-bar			**DOS(#)** daylight & occupancy sensor	
TG9 tegular 9/16"			**WC(#)** wireless control dimming	
TG15 tegular 15/16"				
DF drywall flange				
D drywall flangeless				
DS drywall spackle flange				
DB drywall slip-through bracket				
	Minimum 4ft; please consult factory Not available with 347V.	* Other lengths available; please consult factory.	Specify quantity. Requires 8" blank See integrated controls guide for more details. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.	Please specify

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axis lighting.com

SPECIFICATIONS

CONSTRUCTION

Housing	Extruded aluminum (0.080'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (20 gauge)
Reflectors	White powder coated sheet steel (22 gauge)
Louvers	Thermoplastic, Polycarbonate
Lenses	Extruded acrylic (0.070'' nominal)

ELECTRICAL

Lutron driver	**LDE1** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**STC** - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. **DYN**- BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™ enabled 100% to 50%, light output dimming from 49% to 1%.
Tunable White TW drivers*	**DALIDT6** - DALI Type 6 (Two DALI Addresses) **DALIDT8** - DALI Type 8 (One DALI Address) **DPTW** - two channel 0-10V dimming: one channel for brightness, one channel for CCT. **LDTW** - Lutron DALI Type 8 (One DALI adress) Tunable White series
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	MOLEX IGOR SMARTENGINE **O** - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV, DC.
Flex Whip	Shipped in a separate box for contractors to install

***Choose driver from available options.**

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

SYSTEM (S#)

BEAM2 SQUARE linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs. Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM2 SQUARE that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination of 4', 8' and/or 12' sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

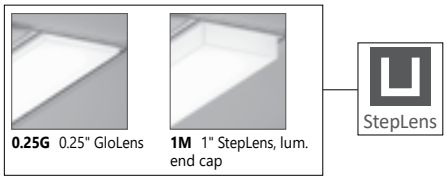
OPTICS



Flush lens*



GFBL Grey Flat Blade Louver



0.25G 0.25" GloLens

1M 1" StepLens, lum. end cap

ULTRA BLEND LENS

Frosted acrylic snap-in micro lens suitable for Tunable White and BIOS applications.

Flush LENS

100% recyclable frosted acrylic snap-in micro lens. Used for SO, ASO, RFA, BW, NW, GZ and WW shielding options.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ Consult BIOS guide for more information on BIOS technology.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40^{0}C (32-104F).

APPROVALS

Meets CCEC requirements (Chicago plenum)

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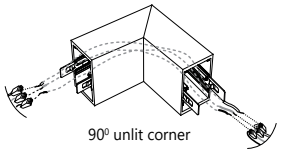
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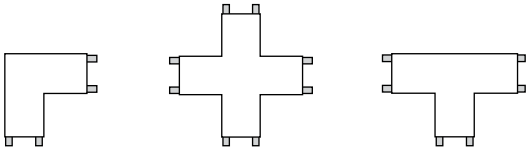
axis axislighting.com

CORNERS

Unlit Corners - BEAM 2 SQUARE features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.

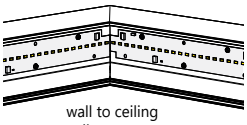


90⁰ unlit corner



90° corner X junction T junction

Lit Corners - Axis also offers lit 90° corners including ceiling to ceiling, wall to ceiling and ceiling to wall.



wall to ceiling lit corner

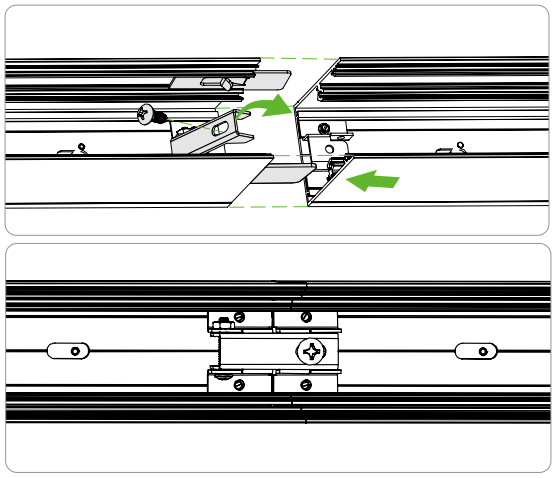
For custom corner angles, please consult factory. Specifications sheets for all corners are available at: www.axislighting.com

*For StepLens please consult factory.

*Consult the pattern spec sheet for more details.

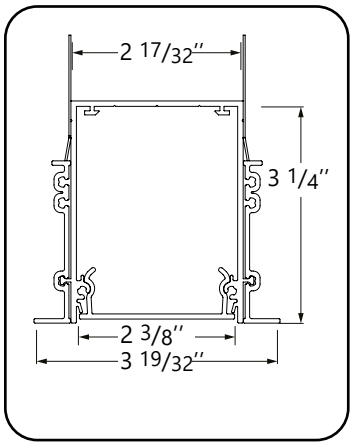
JOINERS

BEAM 2 SQUARE has steel joiners with wedge alignment for easy installation.

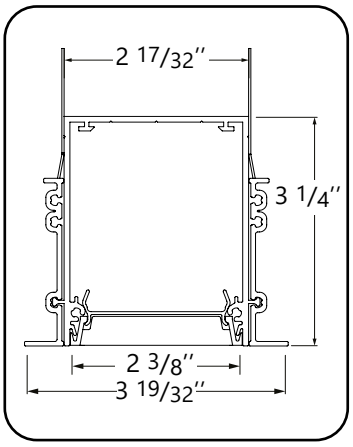


JOINER SYSTEM

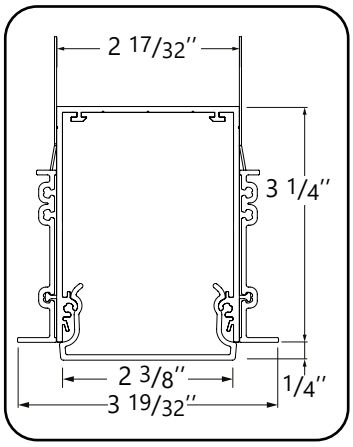
OPTIC SECTION VIEWS



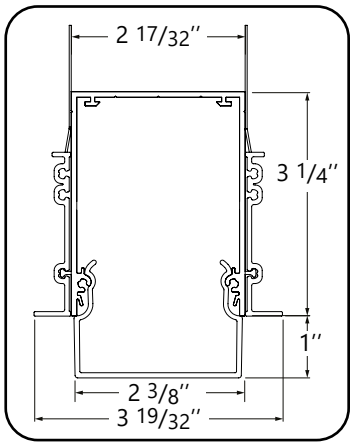
SO Spotless lens
BW Batwing lens
ASO Asymmetric lens
WW Wall Wash lens
NW Narrow lens
UB Ultra Blend lens
GZ Graze lens
RFA Room Fill Asymmetric



BFBL Black Flat Blade Louver
WFBL White Flat Blade Louver
GFBL Grey Flat Blade Louver



0.25G 0.25" Glo lens



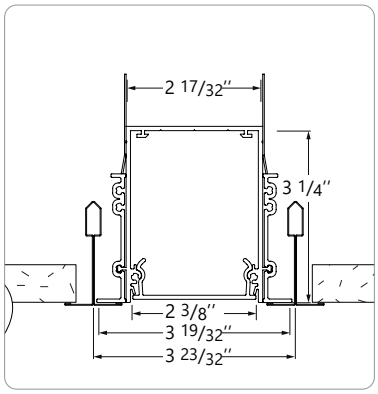
1M 1" Step lens

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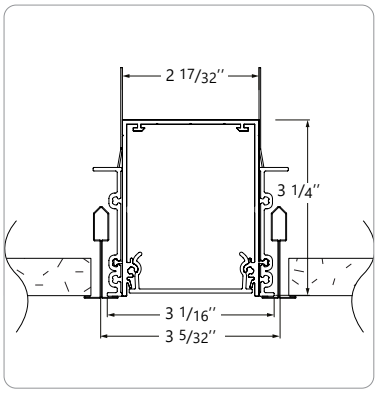
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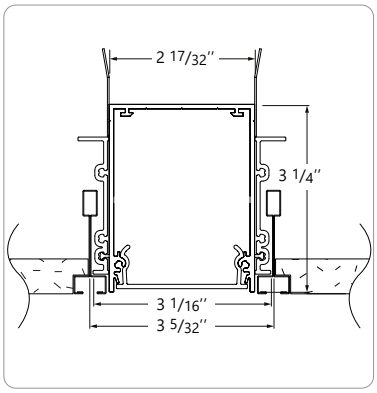
TB CEILING MOUNTING OPTIONS



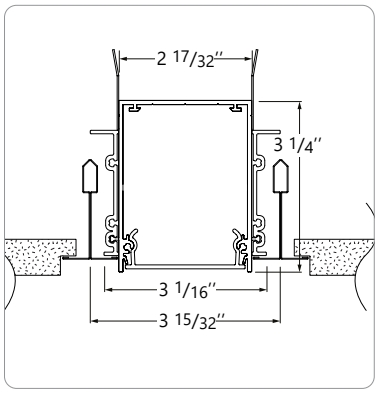
TB15 **15/16" T-BAR**



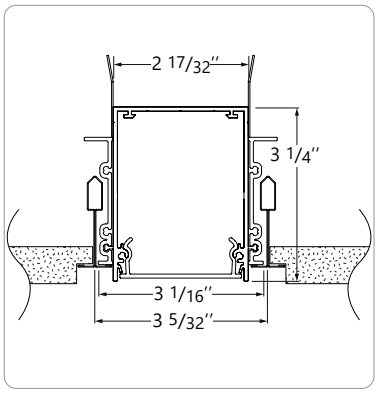
TB9 **9/16" T-BAR**



ST **SCREW SLOT T-BAR**

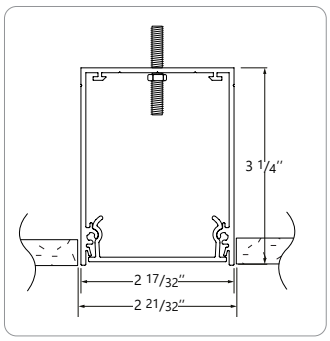


TG15 **15/16" TEGULAR**

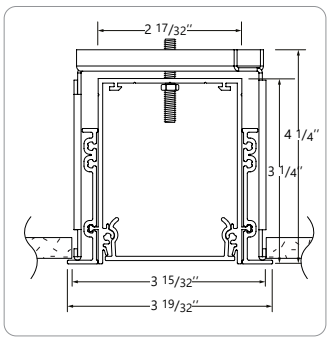


TG9 **9/16" T-TEGULAR**

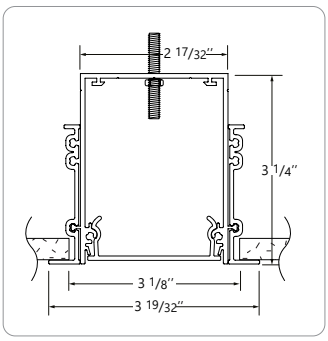
DRYWALL CEILING MOUNTING OPTIONS



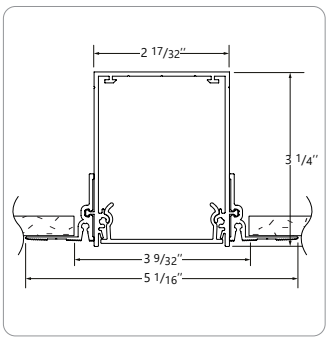
D **FLANGELESS WITH 1/4-20 STUD MOUNTING**



DB **VISIBLE FLANGES WITH SLIP-THROUGH BRACKET**



DF **VISIBLE FLANGES WITH 1/4-20 STUD MOUNTING**



DS **SPACKLE FLANGES**

OTHER MOUNTING OPTIONS

BEAM 2 SQUARE is also available with pendant, surface and wall mounted options.

Specification sheets and installation sheets for all mountings for BEAM 2 SQUARE LED luminaires are available for download at www.axislighting.com

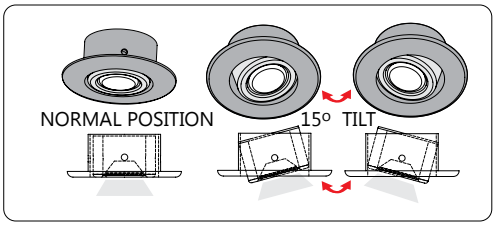
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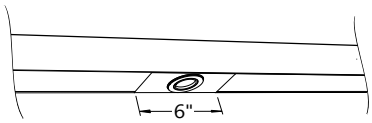
axis lighting.com

DMLED MODULE

Blank	Extruded aluminum (0.075'' nominal)
LED Module	2'' diameter
Quantity	For every 4' section, there may be up to a maximum of 4 x DMLED module.
Spacing	Each DMLED module is placed centered on a blank section 6'' in length. For a series of modules within a given section length, they will be spaced evenly on a longer blank section. Custom spacing may be available on special request.
Tilt	15° each side.



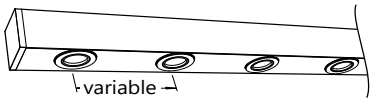
Between sections



At luminaire ends



Several in a long blank section



Beam Angle	30 nominal degrees
Input Watts	3W
Nominal Lumens	126 lumens
Efficacy	42 lumens per watt
Color Rendering Index (CRI)	80
Life	25,000 hours at L_{70}
Correlated color temperature (CCT)	3000K

More options are available upon request.
Please consult factory.

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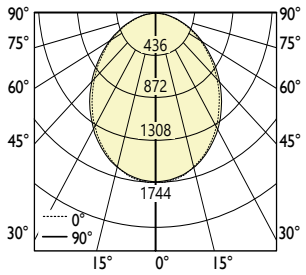
PHOTOMETRIC DATA

SO - Spotless lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 34 W
Efficacy: 118 lm/W
IES FILE: B2SQRLED-1000-80-35-SO-4-W.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1742	1742	1742	1742	1742
5	1731	1723	1720	1717	1713
15	1637	1620	1598	1581	1577
25	1462	1433	1397	1361	1347
35	1224	1190	1141	1096	1079
45	956	926	876	828	810
55	690	666	623	581	569
65	442	424	395	367	358
75	227	216	203	187	183
85	63	57	51	44	44
90	3	3	3	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	164
10-20	456
20-30	656
30-40	734
40-50	699
50-60	580
60-70	412
70-80	230
80-90	69
90	

LUMINANCE DATA (cd/m²)

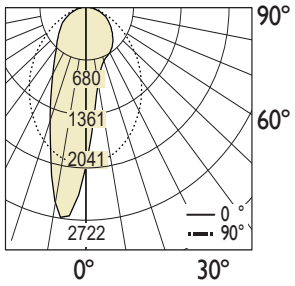
	Horizontal Angles		
Vertical Angle	0	45	90
45	18485	16928	15660
55	16438	14844	13550
65	14298	12780	11567
75	11985	10694	9680
85	9901	8012	6837

GZ - Graze lens

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 750 lm/ft
Total Lumens: 3212 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 106 lm/W
IES FILE: B2SQRLED-750-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	2031	2031	2031	2031	2031
5	1991	1684	1471	1348	1323
15	1861	1159	893	809	795
25	1634	850	705	694	700
35	1349	668	620	632	639
45	1038	535	520	524	532
55	715	406	395	411	429
65	410	267	267	294	314
75	176	135	140	161	173
85	31	27	29	32	31
90	2	2	2	1	1

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	188
10-20	450
20-30	550
30-40	562
40-50	519
50-60	432
60-70	308
70-80	164
80-90	39
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	20205	10119	10356
55	17175	9493	10294
65	13348	8695	10246
75	9356	7446	9220
85	4845	4659	4847

All IES files for other lamping are available for download at: www.axislighting.com

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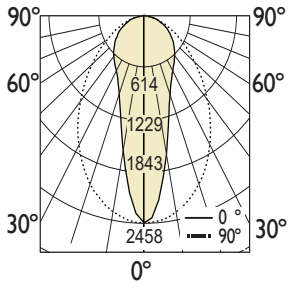
PHOTOMETRIC DATA

NW - Narrow lens

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 750 lm/ft
Total Lumens: 3225 lm (for 4ft)
Input Watts: 30.1 W
Efficacy: 107 lm/W
IES FILE: B2SQRLED-750-80-35-NW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	2458	2458	2458	2458	2458
5	2440	2405	2313	2224	2197
15	2258	1979	1546	1303	1239
25	1925	1464	1019	868	838
35	1497	1066	753	686	678
45	1058	773	581	554	555
55	684	540	429	424	430
65	394	337	285	290	299
75	180	163	148	154	160
85	33	33	33	32	32
90	2	2	1	1	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	207
10-20	453
20-30	538
30-40	556
40-50	519
50-60	433
60-70	310
70-80	167
80-90	41
90	

LUMINANCE DATA (cd/m²)

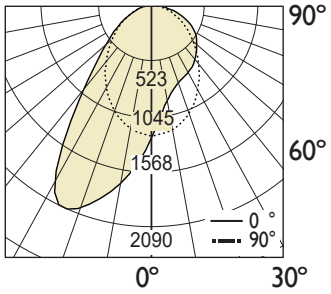
	Horizontal Angles		
Vertical Angle	0	45	90
45	20605	11314	10803
55	16414	10308	10324
65	12851	9298	9742
75	9563	7852	8515
85	5141	5207	4984

ASO - Asymmetric lens

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 750 lm/ft
Total Lumens: 3247 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 107 lm/W
IES FILE: TB2DLED-750-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1243	1243	1243	1243	1243
5	1219	1137	1078	1043	1033
15	1135	937	852	822	815
25	977	771	732	734	738
35	780	635	642	670	684
45	585	510	534	572	596
55	410	382	402	467	508
65	259	249	269	347	386
75	131	127	142	194	214
85	27	27	33	40	38
90	2	3	3	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	119
10-20	356
20-30	572
30-40	651
40-50	578
50-60	455
60-70	313
70-80	164
80-90	39
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	11389	10400	11612
55	9845	9647	12205
65	8439	8765	12564
75	6987	7563	11380
85	4291	5165	5927

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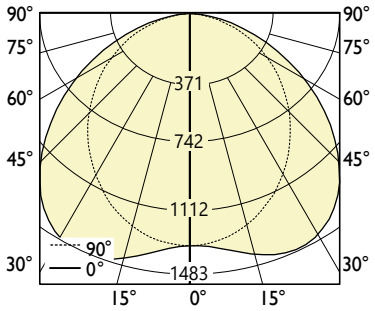
PHOTOMETRIC DATA

BW Batwing

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft 1000 lm/ft
Luminaire Lumens: 4000 lm
Input Watts: 40.1 W
Efficacy: 100 lm/W
IES FILE: B2SQDLED-1000-80-35-BW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1166	1166	1166	1166	1166
5	1158	1163	1174	1185	1190
15	1097	1131	1209	1291	1325
25	981	1052	1233	1404	1460
35	831	928	1179	1399	1467
45	669	773	1045	1207	1245
55	505	591	792	918	942
65	342	398	522	599	611
75	180	205	266	299	303
85	38	46	59	62	63
90	3	3	3	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	112
10-20	343
20-30	565
30-40	721
40-50	760
50-60	671
60-70	491
70-80	268
80-90	68
90	

LUMINANCE DATA (cd/m²)

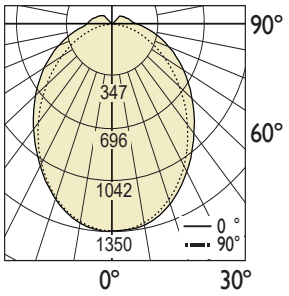
	Horizontal Angles		
Vertical Angle	0	45	90
45	12934	20196	24063
55	12031	18869	22435
65	11071	16882	19744
75	9513	14052	16015
85	5950	9261	9810

1M - 1" Step lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 31.7 W
Efficacy: 126 lm/W
IES FILE: TB2LED-750-80-35-1M-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1388	1388	1388	1388	1388
5	1377	1374	1374	1371	1373
15	1297	1292	1281	1268	1265
25	1147	1140	1121	1099	1093
35	947	947	931	917	914
45	725	739	744	747	750
55	513	542	573	592	598
65	325	370	418	446	453
75	171	224	283	315	321
85	57	115	177	206	212
90	16	77	139	169	173
95	15	70	127	155	159
105	12	57	100	132	137
115	11	42	80	102	112
125	8	31	65	85	95

ZONAL LUMENS

Zone	Lumens
0	
0-10	131
10-20	365
20-30	525
30-40	595
40-50	585
50-60	518
60-70	413
70-80	292
80-90	181
90	
90-100	120
100-110	96
110-120	71
120-130	52
130-140	
140-150	
150-160	
160-170	
170-180	58
180	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	12846	6088	5113
55	10826	4636	3936
65	8796	3450	2971
75	6739	2461	2161
85	4405	1671	1509

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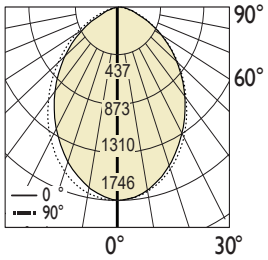
PHOTOMETRIC DATA

WFBL white flat blade louver

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 918 lm/ft
Total Lumens: 3670 lm (for 4ft)
Input Watts: 37.5 W
Efficacy: 98 lm/W
IES FILE: B2SQRLED-1000-80-35-WFBL-4

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1745	1745	1745	1745	1745
5	1721	1719	1720	1721	1725
15	1585	1581	1587	1599	1613
25	1374	1367	1376	1393	1413
35	1122	1113	1113	1123	1151
45	851	838	829	838	864
55	577	561	552	559	583
65	309	300	302	306	321
75	127	120	118	121	124
85	38	35	30	25	24
90	2	2	2	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	163
10-20	452
20-30	645
30-40	716
40-50	668
50-60	524
60-70	322
70-80	142
80-90	39
90	

LUMINANCE DATA (cd/m²)

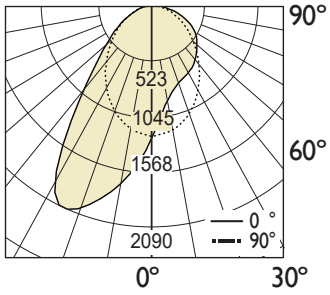
	Horizontal Angles		
Vertical Angle	0	45	90
45	16450	16018	16706
55	13748	13160	13881
65	9991	9782	10372
75	6686	6239	6538
85	5971	4733	3687

WW - Wall wash lens

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 750 lm/ft
Total Lumens: 3247 lm (for 4ft)
Input Watts: 30.3 W
Efficacy: 107 lm/W
IES FILE: B2SQRLED-750-80-35-WW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1243	1243	1243	1243	1243
5	1219	1137	1078	1043	1033
15	1135	937	852	822	815
25	977	771	732	734	738
35	780	635	642	670	684
45	585	510	534	572	596
55	410	382	402	467	508
65	259	249	269	347	386
75	131	127	142	194	214
85	27	27	33	40	38
90	2	3	3	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	119
10-20	356
20-30	572
30-40	651
40-50	578
50-60	455
60-70	313
70-80	164
80-90	39
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	11389	10400	11612
55	9845	9647	12205
65	8439	8765	12564
75	6987	7563	11380
85	4291	5165	5927

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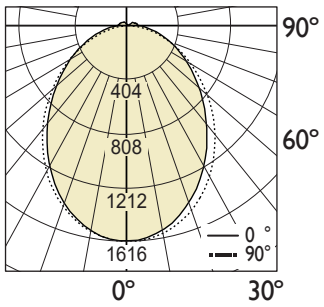
PHOTOMETRIC DATA

0.25G - 0.25" Step lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 33.7 W
Efficacy: 119 lm/W
IES FILE: B2SQRLED-1000-80-35-0.25G-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1614	1614	1614	1614	1614
5	1606	1603	1600	1597	1594
15	1517	1506	1494	1479	1475
25	1352	1333	1307	1279	1271
35	1126	1109	1075	1039	1026
45	877	864	832	799	788
55	631	624	606	582	574
65	405	408	405	396	394
75	210	223	237	243	245
85	63	83	107	122	128
90	8	30	56	74	80
95	8	26	47	63	68
105	7	19	37	55	60
115	7	14	29	41	48
125	8	13	25	34	40

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	152
10-20	422
20-30	607
30-40	680
40-50	651
50-60	548
60-70	405
70-80	251
80-90	115
90	
90-100	50
100-110	41
110-120	30
120-130	23
130-140	
140-150	
150-160	
160-170	
170-180	26
180	

LUMINANCE DATA (cd/m²)

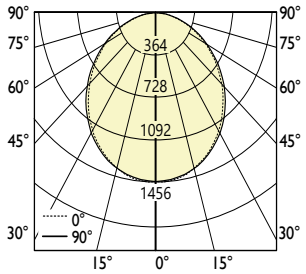
	Horizontal Angles		
Vertical Angle	0	45	90
45	16952	16086	15230
55	15036	14439	13678
65	13081	13087	12734
75	11075	12505	12937
85	9910	16784	20013

UB - Ultra Blend Lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4000 lm (for 4ft)
Input Watts: 37.8 W
Efficacy: 106 lm/W
IES FILE: B2SQRLED-1000-80-35-UB-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1456	1456	1456	1456	1456
5	1449	1448	1448	1447	1447
15	1390	1386	1382	1384	1387
25	1274	1269	1279	1290	1290
35	1114	1113	1129	1128	1128
45	921	932	937	926	922
55	708	720	713	701	697
65	480	491	480	471	470
75	262	267	263	260	260
85	80	78	75	71	71
90	5	3	3	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	137
10-20	391
20-30	587
30-40	698
40-50	712
50-60	632
60-70	475
70-80	280
80-90	86
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	16697	16972	16713
55	15808	15937	15574
65	14563	14560	14240
75	12982	13027	12878
85	11800	10987	10492

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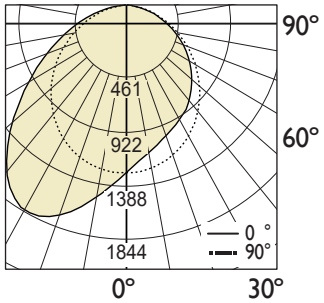
PHOTOMETRIC DATA

RFA - Room Fill Asymmetric Lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 3998 lm (for 4ft)
Input Watts: 37.5 W
Efficacy: 107 lm/W
IES FILE: B2SQRLED-1100-80-35-RFA-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1350	1350	1350	1350	1350
5	1344	1305	1279	1261	1257
15	1285	1193	1149	1125	1122
25	1174	1059	1021	1012	1015
35	1017	906	890	894	897
45	824	738	734	735	741
55	615	563	559	561	563
65	406	373	374	373	374
75	207	191	197	193	193
85	47	47	48	43	42
90	4	5	5	5	5

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	129
10-20	384
20-30	606
30-40	739
40-50	741
50-60	633
60-70	454
70-80	247
80-90	66
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	14938	13297	13419
55	13741	12487	12580
65	12312	11337	11345
75	10227	9740	9546
85	6863	7053	6179

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STELLA 4272

PROJECT PROJET

SPEC TYPE

NOTES



FINISH FINI



BLKE



WHE

FAMILY FAMILLE



4272DI-9



4272DI-16



4273-14



4272D-9 DIRECT ONLY

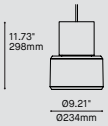


4272D-16 DIRECT ONLY

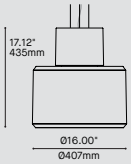


4273-23

4272-9



4272-16



QUICKSHIP CLICK HERE / CLIQUEZ ICI

01

ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
MODEL MODÈLE		
4272DI-9	STELLA 9" (DIRECT+INDIRECT)	
4272DI-16	STELLA 16" (DIRECT+INDIRECT)	
4272D-9	STELLA 9" (DIRECT ONLY)	
4272D-16	STELLA 16" (DIRECT ONLY)	
LIGHT SOURCE SOURCE LUMINEUSE		
LED	REGULAR OUTPUT	
LED.HO	HIGH OUTPUT	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
27*	2700K	
30	3000K	
35	3500K	
40	4000K	
	*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)		
80	80+ CRI	
90*	90+ CRI	
	*LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
VOLTAGE VOLTAGE		
120V	120 VOLT	
277V	277 VOLT	
347V*	347 VOLT	
	*347V COMES WITH A Ø9,3" X 1.75" CANOPY	
CONTROL OPTION OPTION DE CONTRÔLE*		
DV	0-10V DIMMING (120V-277V & 347V)	
DP	PHASE DIMMING (120V ONLY)	
NLTAIR2	NLIGHT AIR CONTROL GEN 2 [A]*	
NLIGHT	NLIGHT WIRED CONTROL[B]*	
	[A]NLIGHT AIR INTEGRATED INSIDE PRODUCT	
	[B] REQUIRES REMOTE POWER PACK (39NLWA)	
	*EMERGENCY BATTERY NOT AVAILABLE WITH NLIGHT	
	*REFER TO NLIGHT GUIDE AND INSTALLATION SHEET FOR ALL REQUIREMENTS.	
EMERGENCY BATTERY BATTERIE D'URGENCE		
	AVAILABLE WITH LED SOURCES 120-227V. EM DRIVER BOX INCLUDED, INSTALLED REMOTELY. SEE EM GUIDE FOR DETAILS. WITH DV DIMMING OPTION, AN ADDITIONAL POWER CABLE WILL DROP FROM CEILING NEXT TO MAIN CABLE.	
EMB*	EMERGENCY BATTERY FOR REMOTE BOX	
	*3981EA ACCESSORY IS REQUIRED; **ONLY AVAILABLE WITH CABLE**	
STEM OR CABLE TIGE OU CABLE		
S10	3/8" (10MM) STEM, NOT FIELD ADJUSTABLE	
C	CABLE, FIELD ADJUSTABLE (FOR 4272-9 & 4272D-9)	
AC	AIRCRAFT MOUNTING & CABLE, FIELD ADJUSTABLE (FOR 4272-16 & 4272D-16)	
STEM OR CABLE LENGTH LONGUEUR DE TIGE OU CABLE		
36	36" STEM (STD LENGTH)	
60	60" CABLE (STD LENGTH)	
**	CUSTOM STEM LENGTH (PLEASE SPECIFY)	
**	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
	FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE.	
CANOPY FINISH FINI PAVILLON		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
POWER CORD OR STEM FINISH FINI CABLE D'ALIMENTATION OU TIGE		
BLK	BLACK POWER CORD OR STEM	
WH	WHITE POWER CORD OR STEM	
SHADE FINISH FINI ABAT-JOUR[A]		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
RAL[B]	PLEASE SPECIFY RAL CODE	
	[A] SHADE INTERIOR IS ALWAYS WHITE	
	[B] LONGER LEAD TIME MAY APPLY, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE	
DIFFUSER FINISH FINI DIFFUSEUR		**WH**
WH	WHITE	
ACCESSORY ACCESSOIRE		
39NLWA*	NLIGHT WIRED REMOTE CONTROLLER	
3981EA	ELECTRICAL BOX FOR EMB EMERGENCY BATTERY	
	*FOR CHICAGO PLENUM INSTALLATION, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE.	

EUREKA

SPECIFICATION

AP01

STELLA 4272-9

QUICKSHIP

PROJECT PROJET

SPEC TYPE

NOTES



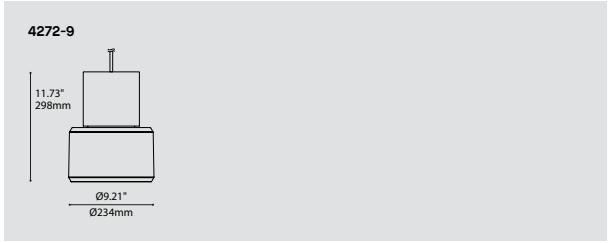
FINISH FINI



BLKE



WHE



ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE		CODE
QUICKSHIP		
QS5	QUICKSHIP 5 DAYS - MAXIMUM 5 UNITS QUICKSHIP 5 JOURS - MAXIMUM 5 UNITÉS	
QS10	QUICKSHIP 10 DAYS - MAXIMUM 20 UNITS QUICKSHIP 10 JOURS - MAXIMUM 20 UNITÉS	
MODEL MODÈLE		**4272DI-9**
4272DI-9	STELLA	
LIGHT SOURCE SOURCE LUMINEUSE		
LED	REGULAR OUTPUT	
LED.HO	HIGH OUTPUT	
COLOR TEMPERATURE TEMPÉRATURE DE COULEUR		
30	3000K	
35	3500K	
40	4000K	
COLOR RENDERING INDEX (CRI) INDICE DE RENDU DE COULEUR (IRC)		**80**
80	80+ CRI	
VOLTAGE VOLTAGE		
120V	120 VOLT	
277V	277 VOLT	
DIMMING OPTION OPTION DE GRADATION		
DV	0-10V DIMMING (120V-277V)	
DP	PHASE DIMMING (120V ONLY)	
	LED DIMMING DRIVER IS STANDARD IN THIS PRODUCT, PLEASE SPECIFY YOUR DIMMING TYPE.	
STEM OR CABLE TIGE OU CABLE		**C**
C	CABLE, FIELD ADJUSTABLE	
STEM OR CABLE LENGTH LONGUEUR DE TIGE OU CABLE		
60	60" CABLE (STD LENGTH)	
******	CUSTOM CABLE LENGTH (PLEASE SPECIFY)	
	FOR OVERALL LENGTH, PLEASE CONTACT YOUR EUREKA REPRESENTATIVE.	
CANOPY FINISH FINI PAVILLON		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
SHADE FINISH FINI ABAT-JOUR[A][B]		
BLKE	BLACK FINE TEXTURE	
WHE	WHITE FINE TEXTURE	
	[A] SHADE INTERIOR IS ALWAYS WHITE	
	[B] SHADE FINISH DICTATES THE CABLE COLOR	
DIFFUSER FINISH FINI DIFFUSEUR		**WH**
WH	WHITE	

ADDITIONAL OPTIONS AVAILABLE ON STANDARD SHIPPING / OPTIONS ADDITIONNELLES DISPONIBLES EN LIVRAISON STANDARD

PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT

BIM DIM EMB IES LED

DESIGN: Stella, at its core, is a powerful light engine fused to a minimalist aluminum shell. A large diffusion dome hidden inside the shade create a uniform direct & indirect illumination. Also offered in a direct only configuration.

INSTALLATION: Single cable or stem for a minimalist look.

LIGHT SOURCE: A highly powerful COB type light source project a light, softened by a large polymer diffusion dome to create an illumination that is efficient & uniform. Some of the light is reflected upward by the dome; thus illuminating indirectly the ceiling. Many control options available.

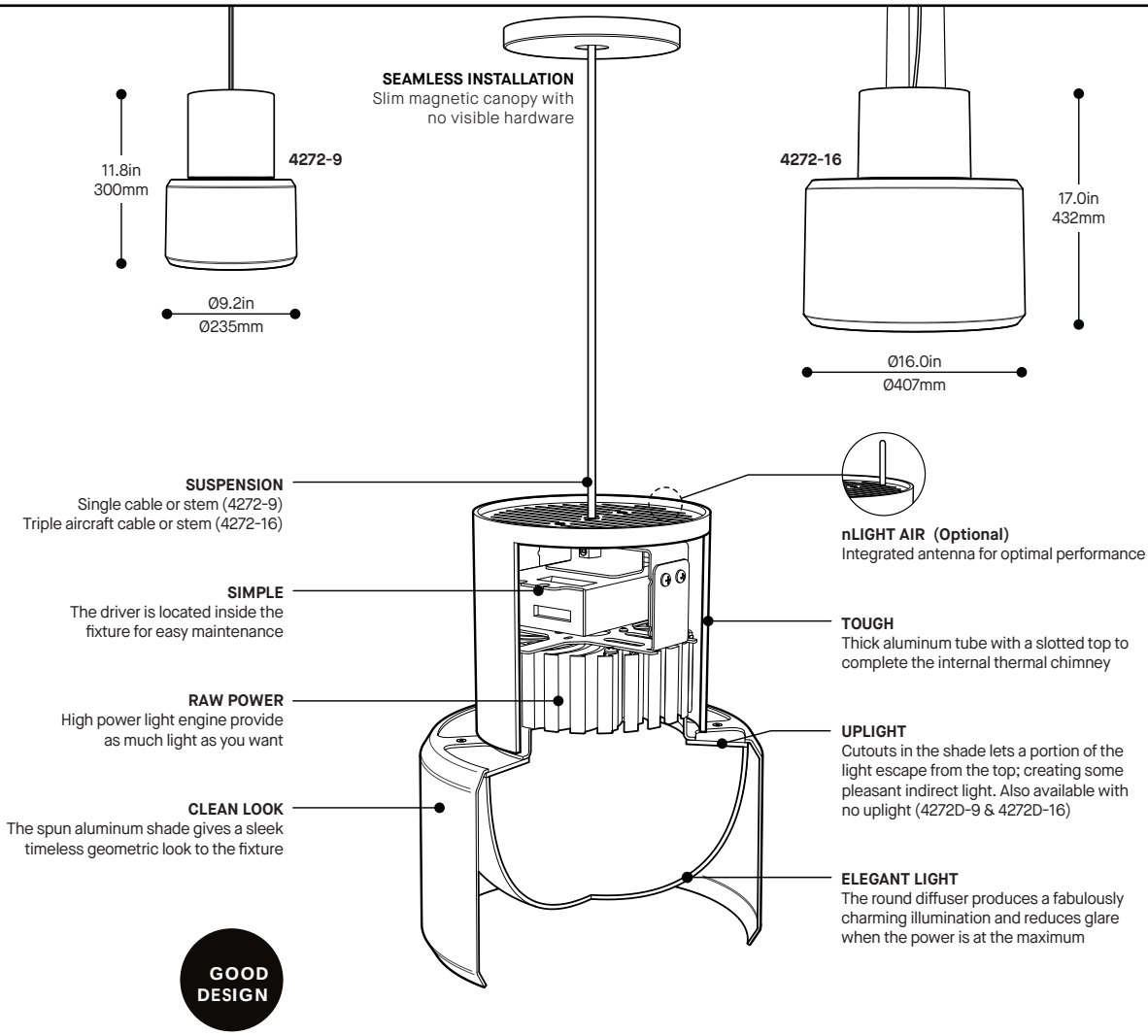
SHADE: The precision spun aluminum shade is optimized to reduce glare. White internal finish for optimal light reflection.

CERTIFIED: c-CSA-us

Eureka Lighting © 2019

STELLA 4272-XX

AP01

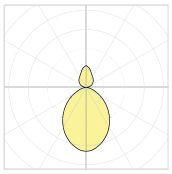


PRODUCT SPECIFICATION	4272DI-9 REG — HO	4272DI-16 REG — HO	4272D-9 REG — HO	4272D-16 REG — HO
PERFORMANCE				
SYSTEM WATTAGE	28.6W — 51W	34.8W — 68.9W	28.6W — 51W	34.8W — 68.9W
DELIVERED DIRECT LUMENS (4000K)	1750LM — 3060LM	2230LM — 3860LM	2050LM — 3560LM	2620LM — 4550LM
DELIVERED INDIRECT LUMENS (4000K)	500LM — 860LM	770LM — 1340LM	-	-
EFFICACY	78.8LM/W	86.2LM/W	71.7LM/W	75.3LM/W
OTHER INFORMATIONS				
WEIGHT	7.3LBS / 3.3KG	9.8LBS / 4.4KG	7.3LBS / 3.3KG	9.8LBS/ 4.4KG
L70 (LUMEN MA INTENANCE)	> 63 600 HRS	> 55 000 HRS	> 63 600 HRS	> 55 000 HRS
WELL & LEED STANDARD REQUIREMENTS				
MAX. LUMINANCE 45°-90° OF NADIR	5401(REG) CD/M²	4398(HO) CD/M²	5401(REG) CD/M²	4398(HO) CD/M²
LIGHT QUALITY	R9 > 50 (90 CRI OPTION)			
FLICKERING TOLERANCE	LOW FLICKER, COMPLIANT TO CALIFORNIA TITLE 24			

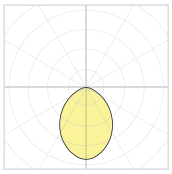
EFFICACY MULTIPLIERS

CRI	CCT	FACTOR
80+	4000K	1.00
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80

LIGHT DISTRIBUTION



4272DI-XX



4272D-XX

5 years warranty

Visit our website for warranty terms and conditions.

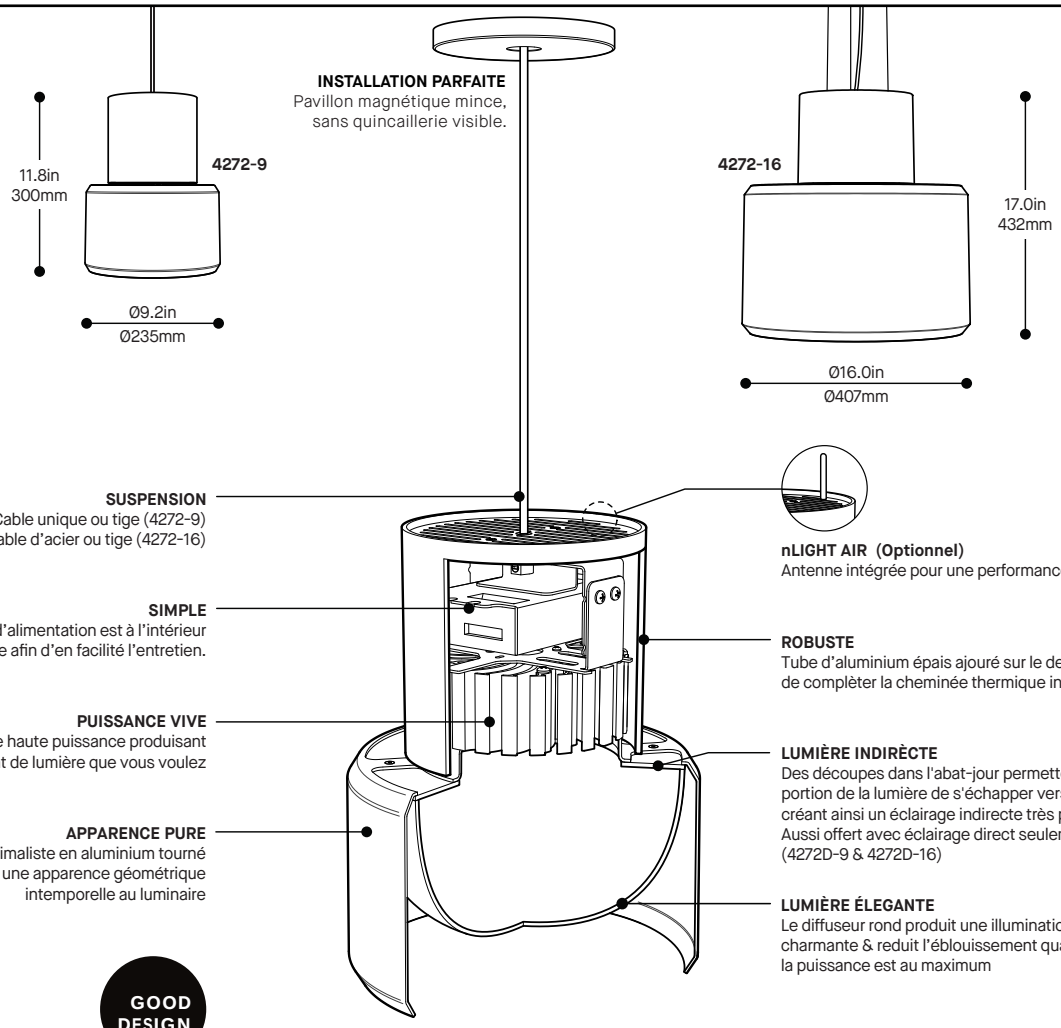
EUREKA

TECHNICAL DATA

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STELLA 4272-XX

AP01



INSTALLATION PARFAITE
Pavillon magnétique mince, sans quincaillerie visible.

SUSPENSION
Cable unique ou tige (4272-9)
Triple cable d'acier ou tige (4272-16)

SIMPLE
L'unité d'alimentation est à l'intérieur du luminaire afin d'en facilité l'entretien.

PUISSANCE VIVE
Module d'éclairage haute puissance produisant autant de lumière que vous voulez

APPARENCE PURE
L'abat-jour minimaliste en aluminium tourné donne une apparence géométrique intemporelle au luminaire

GOOD DESIGN

nLIGHT AIR (Optionnel)
Antenne intégrée pour une performance optimale

ROBUSTE
Tube d'aluminium épais ajouré sur le dessus afin de complèter la cheminée thermique interne

LUMIÈRE INDIRÈCTE
Des découpes dans l'abat-jour permettent à une portion de la lumière de s'échapper vers le haut; créant ainsi un éclairage indirecte très plaisant. Aussi offert avec éclairage direct seulement (4272D-9 & 4272D-16)

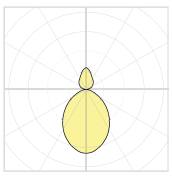
LUMIÈRE ÉLEGANTE
Le diffuseur rond produit une illumination charmante & reduit l'ébouissement quand la puissance est au maximum

SPÉCIFICATION PRODUIT	4272DI-9 REG — HO	4272DI-16 REG — HO	4272D-9 REG — HO	4272D-16 REG — HO
PERFORMANCE				
PUISSANCE TOTALE	28.6W — 51W	34.8W — 68.9W	28.6W — 51W	34.8W — 68.9W
LUMENS RÉELS DIRECT (4000K)	1750LM — 3060LM	2230LM — 3860LM	2050LM — 3560LM	2620LM — 4550LM
LUMENS RÉELS INDIRECT (4000K)	500LM — 860LM	770LM — 1340LM	-	-
EFFICACITÉ	78.8LM/W	86.2LM/W	71.7LM/W	75.3LM/W
AUTRES INFORMATIONS				
POIDS	7.3LBS / 3.3KG	9.8LBS / 4.4KG	7.3LBS / 3.3KG	9.8LBS/ 4.4KG
L70 (MAINTENANCE DE LA LUMIÈRE)	> 63 600 H	> 55 000 H	> 63 600 H	> 55 000 H
CRITÈRES DE CERTIFICATION WELL & LEED				
MAX. LUMINANCE 45°-90° NADIR	5401(REG) CD/M²	4398(HO) CD/M²	5401(REG) CD/M²	4398(HO) CD/M²
QUALITÉ DE LA LUMIERE	R9 > 50 (OPTION 90 IRC)			
TOLÉRANCE DE CLIGNOTEMENTS	PEU DE CLIGNOTEMENT (CONFORME À CALIFORNIA TITLE 24)			

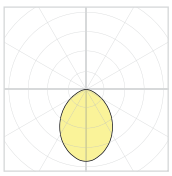
FACTEUR D'EFFICACITÉ

IRC	CCT	FACTEUR
80+	4000K	1.00
80+	3500K	0.99
80+	3000K	0.97
80+	2700K	0.94
90+	4000K	0.89
90+	3500K	0.86
90+	3000K	0.84
90+	2700K	0.80

DISTRIBUTION LUMINEUSE



4272DI-XX



4272D-XX

5 ans de garantie

Visitez notre site Web pour les termes et conditions.

EUREKA

DONNÉES TECHNIQUES

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AP01

JUNCTION BOX 3981E

PROJECT PROJET

SPEC TYPE

NOTES



ORDERING SPECIFICATION SPÉCIFICATION DE COMMANDE | **CODE**

MODEL MODÈLE	
3981EA	APPROX. 10W MAX EMERGENCY BACKUP POWER
3981EB	APPROX. 5W MAX EMERGENCY BACKUP POWER

PRODUCT CHARACTERISTICS CARACTÉRISTIQUES DU PRODUIT

DESIGN: Remote junction box and cover with an emergency backup driver. Features matching wires and labelling to simplify installation. Is required to complete luminaires ordered with EMB remote emergency box option (selected models, refer to specification sheets. Other models possible upon request). Available in several power outputs, selected according to the luminaire power.

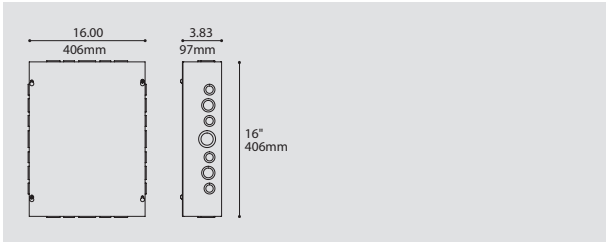
STRUCTURE: Die-stamped 16 gauge grey painted steel. Knockouts on all 4 sides from 1/2" to 1-1/4".

CERTIFIED: c-CSA-us, UL, RoHS, NEMA Type 1, FCC

CONCEPTION: Boîte de jonction à distance avec couvercle avec batterie d'urgence intégré. Contient des fils avec couleurs et étiquettage pour simplifier l'installation. Requis pour compléter un luminaire commandée avec l'option EMB (voir pages de spécification pour produits avec l'option EMB. Autres produits possibles sur demande). Disponible en plusieurs puissances, sélectionnées en fonction du luminaire.

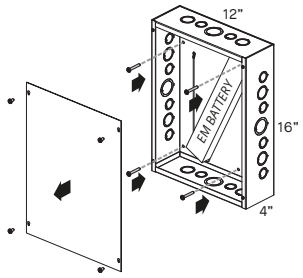
STRUCTURE: Acier plié de 16 jauge peinturé gris avec coins soudés. Débouchures sur 4 côtés 1/2" à 1-1/4".

CERTIFIÉ: c-CSA-us, UL, RoHS, NEMA Type 1, FCC



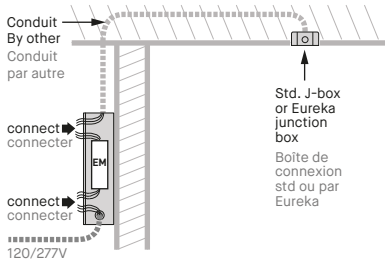
INSTALLATION SUMMARY SOMMAIRE D'INSTALLATION

STEP 1 ÉTAPE 1



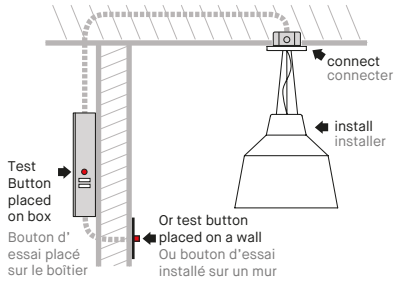
Remove cover and fasten box remotely to a wall or a ceiling.
Enlever le couvercle et fixer la boite à distance sur un mur ou un plafond.

STEP 2 ÉTAPE 2



Run conduit from box to junction box of luminaire. Conduit must have a minimum of 5 wires with wire gauge and maximum distance as per EM driver distance chart. Connect EM driver to conduit wires and ac branch circuit.
Faites passer le conduit de la boîte EM à la boîte de connexion du luminaire. Consulter le tableau de "distance maximale" disponible dans la feuille d'installation. Branchez la batterie EM avec les fils du conduit ainsi que la ligne 120V ou 277V.

STEP 3 ÉTAPE 3



Install luminaire & connect its wires to conduit. Install test button on wall or box (wall plate not supplied).
Installer le luminaire & connecter les fils au conduit. Installer le bouton d'essai sur le mur ou boîtier (plaque murale non fournie).

REFER ALSO TO INSTALLATION DRAWING AND EM GUIDE FOR MORE INFORMATION.
CONSULTEZ LE DESSIN D'INSTALLATION ET LE GUIDE EM POUR PLUS D'INFORMATIONS.

3981E REMOTE EMERGENCY BOX KIT - **IOTA EM DRIVER**

SAFETY GUIDELINES :

> Follow safety instructions and guidlelines of EM battery/driver manufacturer for the specific model.
> Install by qualified personnel in accordance with the National Electrical Code and local regulations.
> Turn off power supply before installation or servicing the fixture.

EMB LOCATION :

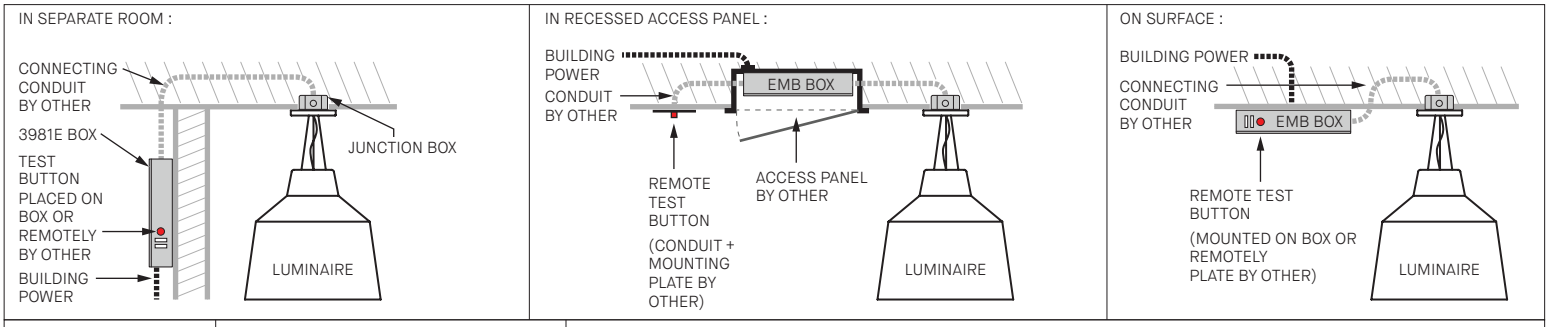
> The 3981E box connects to a luminaire ordered with an EMB option (which has specific EM WIRING).
> Consult our chart for maximum remote distance of EM battery to luminaire leds.
> Establish desired location for EMB box & EM test button on box or on a wall.

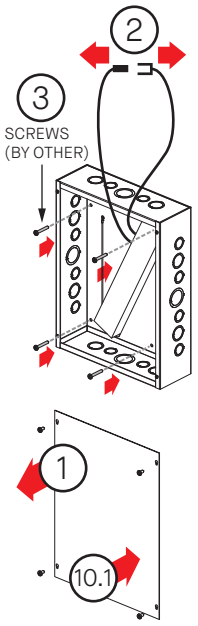
EM Remote Distance Chart

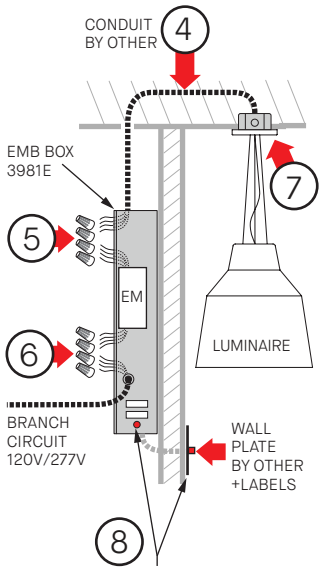
Maximum distance EM battery to Luminaire LEDs (Ft)

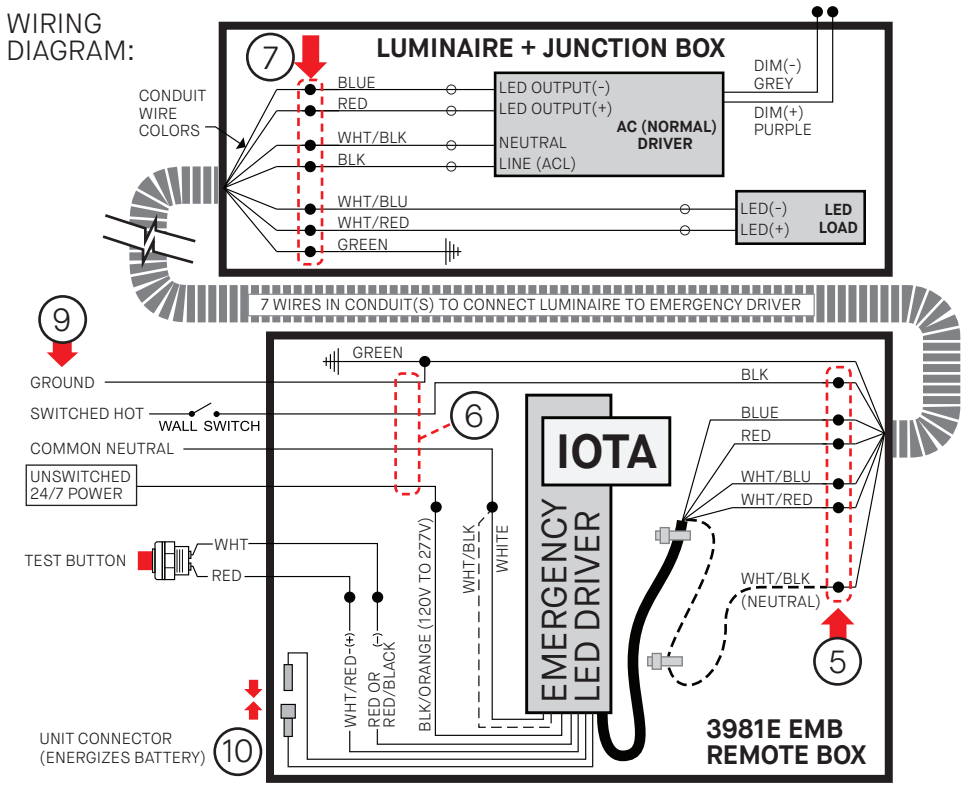
MAX EM BOX DISTANCE (Ft)		CONDUIT WIRE GAUGE (AWG)						
		10	12	14	16	18	20	22
LUMINAIRE DRIVER OUTPUT CURRENT* (Amps) *Contact Eureka	200mA	1043'	651'	413'	259'	163'	103'	65'
	350mA	596'	372'	236'	148'	93'	59'	37'
	500mA	417'	261'	165'	104'	65'	41'	26'
	700mA	298'	186'	118'	74'	47'	29'	18'
	1000mA	209'	130'	83'	52'	33'	21'	13'
	1400mA	149'	93'	59'	37'	23'	15'	9'
	2000mA	104'	65'	41'	26'	16'	10'	6'
	3000mA	70'	43'	28'	17'	11'	7'	4'

EMB PLACEMENT EXAMPLES :









INSTALLATION

1 -REMOVE BOX COVER.

2 -IF CONNECTED, DISCONNECT THE EM BATTERY 'UNIT CONNECTOR' (WHITE).

3 -SCREW BOX TO MOUNTING SURFACE (SCREWS NOT SUPPLIED)

4 -RUN CONDUIT FROM EMB BOX TO ELECTRICAL JUNCTION BOX OF LUMINAIRE. CONDUIT MUST HAVE MIN. 7 WIRES AND WIRE GAUGE AS PER DISTANCE CHART.

5 -CONNECT CONDUIT WIRES TO EM BATTERY AS PER WIRING DIAGRAM.
CAREFULLY NOTE WHICH WIRE COLORS ARE CONNECTED TOGETHER ON EACH END.

6 -CONNECT BATTERY TO AC BRANCH CIRCUIT : GROUND, NEUTRAL, 24/7 UNSWITCHED LINE (HOT) AND SWITCHED LINE (ON SAME CIRCUIT AS LUMINAIRE ON/OFF CONTROL).

7 -INSTALL SPECIFIC EM LUMINAIRE, CONNECT WIRES TO CONDUIT USING THE SAME CORRESPONDING COLORS NOTED AT THE EM BATTERY-CONDUIT CONNECTION.

8 -INSTALL EM BATTERY TEST BUTTON IN DESIRED LOCATION. WALL PLATE BY OTHER. ADD LABELS "PUSH TO TEST" & CHARGING INDICATOR LIGHT".

9 -SWITCH ON AC POWER.

10 -JOIN THE EM BATTERY CONVERTOR CONNECTOR. 10.1 -INSTALL BOX COVER.

11 -IF EMB IS FAR FROM THE LUMINAIRE, IDENTIFY TO WHICH LUMINAIRE IT IS CONNECTED.

AT THIS POINT POWER SHOULD BE CONNECTED TO BOTH THE AC DRIVER AND THE EMERGENCY DRIVER & TEST/CHARGE LIGHT SHOULD ILLUMINATE, INDICATING BATTERY IS CHARGING.

TESTING & EM DRIVER/BATTERY MAINTENANCE:

CONDUCT A SHORT-TERM DISCHARGE TEST AFTER THE EMERGENCY DRIVER HAS BEEN CHARGED FOR MINIMUM ONE HOUR. CHARGE FOR 24 HOURS BEFORE CONDUCTING A LONG-TERM DISCHARGE TEST.

FOLLOW GUIDELINES FROM THE EM DRIVER/BATTERY MANUFACTURER INSTRUCTIONS FOR THE REQUIRED PERIODIC TESTING AND MAINTENANCE GUIDELINES.

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3981E BOÎTE D'URGENCE À DISTANCE - **DRIVER EM IOTA**

DIRECTIVES DE SÉCURITÉ:

> Suivre les consignes de sécurité et les directives d'installation du fabricant de la batterie d'urgence.
> Installer par du personnel qualifié conformément au code électrique national et local.
> Fermer l'alimentation avant l'installation ou l'entretien.

EMPLACEMENT :

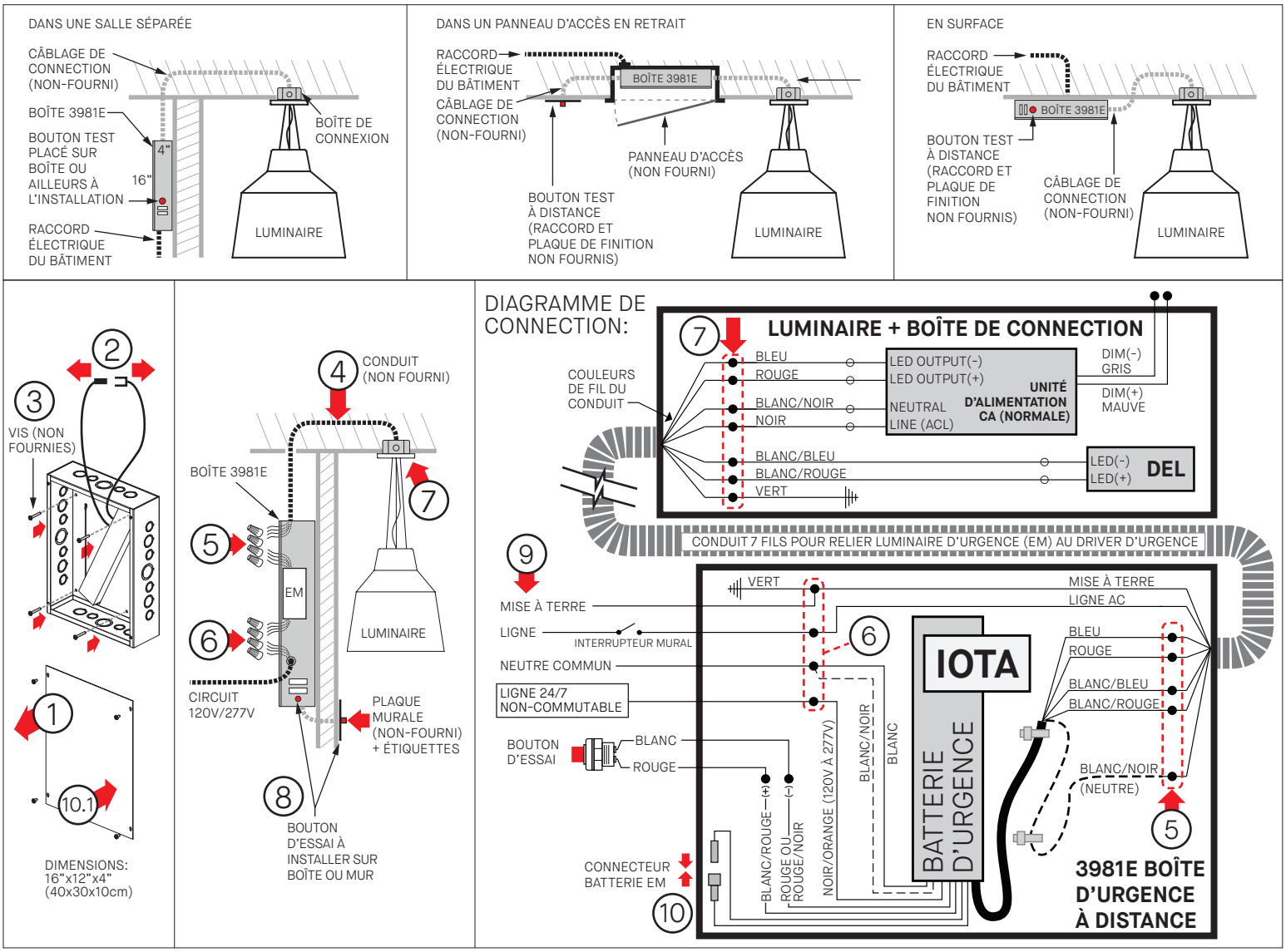
> Cette boîte 3981E se connecte à un luminaire commandé avec l'option EMB (qui a du filage spéficique).
> Consulter le tableau pour la distance maximale de la batterie d'urgence aux DELs du luminaire.
> Déterminer l'emplacement souhaité pour la boîte EMB et le bouton de test d'urgence.

Charte de distance d'installation EM

Distance maximale entre Batterie d'urgence et DELs du luminaire (Pi)

DISTANCE MAX D'INSTALLATION (Pi)		GAUGE DE FILS DU CONDUIT (AWG)						
		10	12	14	16	18	20	22
COURANT ALIMENTATION DU LUMINAIRE* (Amp) *Contacter Eureka	200mA	1043'	651'	413'	259'	163'	103'	65'
	350mA	596'	372'	236'	148'	93'	59'	37'
	500mA	417'	261'	165'	104'	65'	41'	26'
	700mA	298'	186'	118'	74'	47'	29'	18'
	1000mA	209'	130'	83'	52'	33'	21'	13'
	1400mA	149'	93'	59'	37'	23'	15'	9'
	2000mA	104'	65'	41'	26'	16'	10'	6'
	3000mA	70'	43'	28'	17'	11'	7'	4'

EXEMPLES D'EMPLACEMENT:



INSTALLATION

1 - DÉVISSER LE COUVERCLE.

2 -DÉCONNECTER LE CONNECTEUR BLANC DE BATTERIE EM (UNIT CONNECTOR).

3 -FIXER LA BOÎTE SUR LE MUR/PLAFOND AVEC VIS (NON FOURNIES)

4 -PASSER DU CONDUIT DU EMB VERS LA BOÎTE DE CONNEXION ÉLÉCTRIQUE DE LUMINAIRE. LE CONDUIT DOIT AVOIR 7 FILS AVEC JAUGE DE FIL SELON CHARTE DE DISTANCE.

5 -CONNECTER LES FILS DE CONDUIT À LA BATTERIE EM SELON LE SCHÉMA DE CÂBLAGE.

6 -CONNECTER LA BATTERIE AU CIRCUIT DE DÉRIVATION AC (FILS: MISE A LA TERRE, NEUTRE, LIGNE & LIGNE SANS INTERRUPTEUR 24H/7* (*DOIT ETRE LE MEME CIRCUIT QUE LE CONTROLE DU LUMINAIRE).

7 -INSTALLER LUMINAIRE SPÉCIFIQUE EM, CONNECTER LES FILS AU CONDUIT AVEC MÊMES COULEURS CORRESPONDANTES DE LA BATTERIE EM AUX FILS DE CONDUIT.

8 -INSTALLEZ LE BOUTON D'ESSAI DE BATTERIE EM DANS L'ENDROIT SOUHAITÉ (PLAQUE MURALE PAR AUTRE). COLLER ÉTIQUETTES "PUSH TO TEST" & CHARGING INDICATOR LIGHT".

9 -ALIMENTER LE CIRCUIT AC.

10 -JOINDRE CONNECTEUR BLANC DE BATTERIE EM. 10.1 -INSTALLER COUVERCLE DE BOITE.

11 -SI LE EMB EST LOIN DU LUMINAIRE, IDENTIFIER À QUEL LUMINAIRE IL EST CONNECTÉ.

A CE STADE, L 'ALIMENTATION DEVRAIT ETRE CONNECTÉE À L'UNITÉ D'ALIMENTATION AC ET LA BATTERIE D' URGENCE ET LA LUMIERE DE TEST/CHARGE S'ILLUMINE, INDIQUANT QUE LA BATTERIE SE CHARGE.

ESSAIS & ENTRETIEN DE LA BATTERIE:

FAITES UN TEST DE DÉCHARGE À COURT TERME APRÈS AVOIR CHARGÉ LA BATTERIE D'URGENCE AU MINIMUM UNE HEURE. CHARGEZ 24 HEURES AVANT D'EFFECTUER UN TEST DE DÉCHARGE À LONG TERME.

SUIVRE LES DIRECTIVES DU FABRICANT DE BATTERIE / CONDUCTEUR EM (SITE WEB) POUR LES DIRECTIVES PÉRIODIQUES REQUISES EN MATIÈRE DE TEST ET D'ENTRETIEN.

AP02

CYLINDER 1
SUSPENDED STEM DROPKIT

PROJECT NAME:	TYPE:

Our best-selling cylinders keep getting better. Suspended cylinders are offered in a broad range of sizes and more than a dozen finish options, with field-cuttable stems and lumens from 800 to almost 4000lm.





ORDERING INFORMATION

JA8-2022 COMPLIANCE INDICATED BY SHADING

CYLINDER	LENGTH	FUNCTION	RATING	CYLINDER FINISH	BAFFLE FINISH	CRI	WATTAGE	CCT	OPTIC (UGR)	MEDIA	POWER SUPPLY	MOUNTING
CD1X			**1**									
Dropkit® STEM ASSEMBLY **CD1X** 2.5" Ø	**043** 2" - 43" Mechanical Dropkit Stem **086** 45" - 86" Mechanical Dropkit Stem **129** 88" - 129" Mechanical Dropkit Stem **172** 131" - 172" Mechanical Dropkit Stem ***(All lengths are field cuttable)**	**AD** 90° Adjustable **AS** 90° Adjustable Shallow Canopy* *(Remote driver only) **AW** Adjustable Wallwash **FB** Fixed **WW** Wallwash Fixed	**1** Dry / Damp (IP30)	**POWDERCOAT FINISHES** **WH** White **AG** Satin Silver **AU** Cashmere Gold **AB** Architectural Bronze **BB** Burnt Bronze **BK** Black **CF** Custom Finish* *(Consult Factory) **ALUMINA** CONSULT FACTORY FOR ALUMINA FINISHES	**POWDERCOAT FINISHES** **WH** White **AG** Satin Silver **AU** Cashmere Gold **AB** Architectural Bronze **BB** Burnt Bronze **BK** Black **CF** Custom Finish* *(Consult Factory) **ALUMINA** CONSULT FACTORY FOR ALUMINA FINISHES	**STATIC WHITE** **80S** **90S** **97S** **WARM DIM** **90L** **TUNABLE WHITE** **90T**	**STATIC WHITE** **11A** 11W, 952 Lm **17A** 17W, 1416 Lm **17C** 17W, 587 Lm* *(For use with 10° optic only) **WARM DIM** **17A** 17W Incandescent Profile 1280 Lm Halogen Profile 1346 Lm *SEE PAGE 4 FOR DETAILED PERFORMANCE CONFIGURATIONS AND WARM DIM PROFILE COMPARISON. **TUNABLE WHITE** (REMOTE DRIVER ONLY) **17A** 17W Warm Profile 1291 Lm Cool Profile 1251 Lm *ALL DELIVERED LUMEN OUTPUTS REFLECT 80+CRI / 3000K PAIRED WITH 60° OPTIC AND SOFT FOCUS LENS.	**24** 2400K* *(90CRI only) **27** 2700K **30** 3000K **35** 3500K **40** 4000K **WL** 2700K - 1800K **WD** 3000K - 1800K **TR** 4000K - 1800K **TH** 5000K - 2700K	**10** 10°* (<16) *(17W only) **15** 15° (<16) **20** 20° (<10) **25** 25° (<10) **40** 40° (<10) **60** 60° (<16) **WW** Wallwash* *(Required for WW & AW fixture) *SEE PAGE 4 FOR UGR VALUES	**STANDARD MEDIA** **4** Soft Focus Lens (SFL)* *(Required for 10° optic) **ALTERNATE MEDIA** **0** No Lens* *(Not available for Wet Location) **2** Honey Comb Louver (HCL)* *(Not available for Wet Location) **3** Clear Glass Lens (CGL) **5** Frosted Glass Lens (FGL) **6** Frosted Soft Focus Lens (FSFL) **7** Frosted Linear Spread Lens (FLSL) **C** Clear Glass Film w/ Honeycomb Louver **S** Soft Focus Film w/ Honeycomb Louver **W** Wallwash Lens* *(Required for WW and AW fixture)	**INTEGRAL** **UCA** 0-10V Analog 120-277V, LIN **1CE** 120V Electronic Forward/Reverse **REMOTE (120V)** **1TR** Philips, 2% Forward / Reverse **1RE** Forward / Reverse **REMOTE (120-277V)** **URA** 0-10V Analog, LIN **ULH** Lutron Hi-Lume Ecosystem 1% Fade to Black **UAN** Philips Xitanium 1% 0-10V, LOG **ULN** Philips Xitanium 1% 0-10V, LIN **UEG** eldoLED, 0.1% 0-10V, LOG **UEN** eldoLED, 0.1% 0-10V, LIN **UED** eldoLED, 0.1% DALI-2, LOG **ULD** eldoLED, 0.1% DALI-2, LIN **UAS1** Athena Control EldoLED, 0.1%* *(Includes Node. Extended lead time, consult factory) **UCS1** Casambi Control EldoLED, 0.1%* *(Includes Node. Extended lead time, consult factory) **TUNABLE WHITE REMOTE (0.1%, 120-277V)** **UDD** eldoLED, DUALdrive DALI-2 DT8, LOG **UDG** eldoLED, DUALdrive 0-10V, LOG **UDN** eldoLED, DUALdrive 0-10V, LIN **UAD1** Athena Control, EldoLED, DUALdrive* *(Includes Node. Extended lead time, consult factory) **UCD1** Casambi Control, EldoLED, DUALdrive* *(Includes Node. Extended lead time, consult factory)	**ROUGH-IN** **JBMP** 4" Sq. or 4/0 Junction Box Mounting Plate **FINISH OUT** **CMJB** * 1/2" and 3/4" Conduit Ceiling Mount Junction Box* *(Available in powdercoat finishes. Alumina finish fixtures ship with Black powdercoat CMJB.) **SMK3** 3/0 Surface Mount Kit* **SMK4** 4/0 Surface Mount Kit* *(Available in powdercoat finishes.)

PART NUMBER NOTES

- CD1X Cylinder ships as CY1XFB1WHBK80S17A30404UCA3
- Dropkit Stem Assembly ships as CY1X-DK-(length)-(finish)
- Remote driver ships as e.g., PS-RMT-80S17A-1RE3
- Mounting part numbers listed on page 6

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[DATE OF REV: 09232025]

CYLINDER 1 SUSPENDED STEM DROPKIT

ACCESSORIES

ALTERNATE MEDIA

- ☐ **SFL-CY1X-01** Soft Focus Lens
- ☐ **HCL-CY1X-01** Honeycomb Louver
- ☐ **CGL-CY1X-01** Clear Glass Lens
- ☐ **FGL-CY1X-01** Frosted Glass Lens
- ☐ **FSFL-CY1X-01** Frosted Soft Focus Lens
- ☐ **FLSL-CY1X-01** Frosted Linear Spread Lens
- ☐ **CGL-LSL-CY1X-01** Clear Glass Lens W/ Linear Spread Lens
- ☐ **SFL-HCL-CY1X-01** Soft Focus Lens W/ Honeycomb Louver

Dropkit STEM EXTENSION

☐ **RPS-DK-EXT-**** 2-42" Stem Extension
** Stem finish: Specify **WH** for white, **AG** for satin Silver, **AU** for cashmere gold, **AB** for architectural bronze, **BB** for burnt bronze, or **BK** for black.

STATIC WHITE REPLACEMENT OPTICS

- ☐ **RO-50-15-S** 15° optic
- ☐ **RO-50-20-S** 20° optic
- ☐ **RO-50-25-S** 25° optic
- ☐ **RO-50-40-S** 40° optic
- ☐ **RO-50-60-S** 60° optic

WARM DIM REPLACEMENT OPTICS

- ☐ **RO-50-20-W** 20° optic
- ☐ **RO-50-25-W** 25° optic
- ☐ **RO-50-40-W** 40° optic
- ☐ **RO-50-60-W** 60° optic

TUNABLE WHITE REPLACEMENT OPTICS

- ☐ **RO-50-15-T** 15° optic
- ☐ **RO-50-20-T** 20° optic
- ☐ **RO-50-25-T** 25° optic
- ☐ **RO-50-40-T** 40° optic
- ☐ **RO-50-60-T** 60° optic

SUCTION CUP TOOL

☐ **CYX-TOOL-SUCTION** Baffle removal tool, provided with every 5 fixtures

EMERGENCY LIGHTING - REMOTE MOUNT ONLY

During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

- ☐ **EMB-S-25-120/277-LEDX** 25 watt max capacity, 120 or 277 VAC 60Hz
- ☐ **EMB-S-100-120-LEDX** 100 watt max capacity, 120 VAC 60Hz, 0-10V dimmable
- ☐ **EMB-S-100-277-LEDX** 100 watt max capacity, 277 VAC 60Hz, 0-10V dimmable
- ☐ **EMB-S-250-120/277-LEDX** 250 watt max capacity, 120 or 277 VAC 60Hz

NOTE: CONSULT FACTORY FOR USE WITH WIRELESS CONTROLS.

POWDERCOAT FINISHES



(WH) White Powder Coat | (AG) Satin Silver Powder Coat | (AU) Cashmere Gold Powder Coat | (AB) Architectural Bronze Powder Coat | (BB) Burnt Bronze Powder Coat | (BK) Black Powder Coat

ALUMINA FINISHES BY LUCIFER LIGHTING™



(01) Brushed Obsidian | (03) Brushed Dark Patinated Bronze | (05) Brushed Aged Aluminum | (07) Brushed Cast Brass | (09) Brushed Light Patinated Bronze



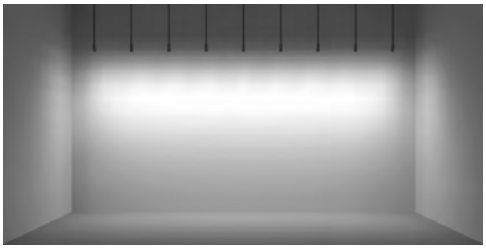
(02) Matte Obsidian | (04) Matte Dark Patinated Bronze | (06) Matte Aged Aluminum | (08) Matte Cast Brass | (10) Matte Light Patinated Bronze

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[DATE OF REV: 09232025]

CYLINDER 1 SUSPENDED STEM DROPKIT

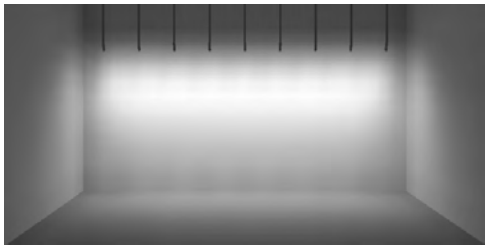
WALLWASH DESIGN GUIDE



10˚ TILT

30" SETBACK / 30" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 24.45
- MAX / MIN: 4.85
- 9 FIXTURES / 25FT WALL SHOWN

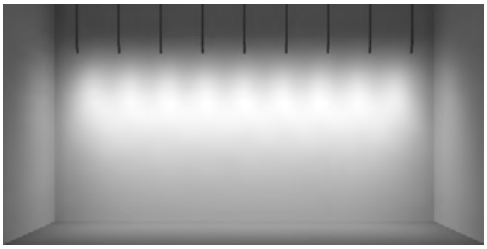


RECOMMENDED

15˚ TILT

36" SETBACK / 36" ON CENTER SPACING

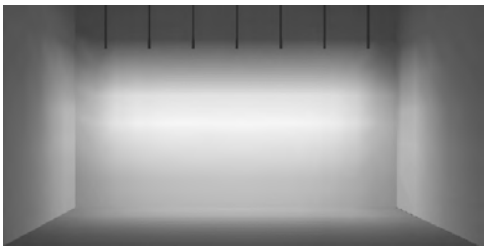
- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 21.75
- MAX / MIN: 4.35
- 9 FIXTURES / 30FT WALL SHOWN



20˚ TILT

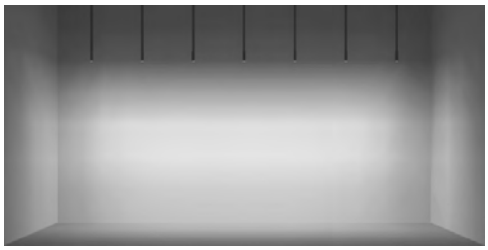
42" SETBACK / 42" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 19.68
- MAX / MIN: 4.03
- 9 FIXTURES / 35FT WALL SHOWN



42" SETBACK / 30" ON CENTER SPACING

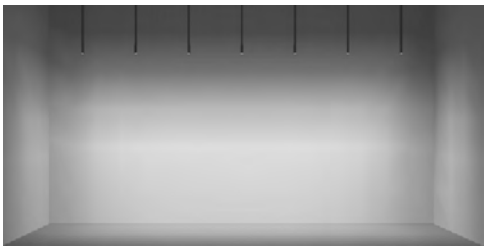
- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 23.46
- MAX / MIN: 4.88
- 9 FIXTURES / 25FT WALL SHOWN



RECOMMENDED

48" SETBACK / 36" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 18.62
- MAX / MIN: 4.76
- 9 FIXTURES / 30FT WALL SHOWN



54" SETBACK / 42" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 15.07
- MAX / MIN: 4.90
- 9 FIXTURES / 35FT WALL SHOWN

ADDITIONAL SETBACKS AND SPACINGS

ON CENTER SPACING	SETBACK / TILT		
	30" / 10˚	36" / 15˚	42" / 20˚
30"	SHOWN ABOVE	AVERAGE FC: 25.42 MAX / MIN: 4.36	AVERAGE FC: 26.36 MAX / MIN: 4.14
36"	AVERAGE FC: 20.87 MAX / MIN: 4.97	SHOWN ABOVE	AVERAGE FC: 22.56 MAX / MIN: 4.08
42"	AVERAGE FC: 18.21 MAX / MIN: 5.17	AVERAGE FC: 18.94 MAX / MIN: 4.39	SHOWN ABOVE

ON CENTER SPACING	SETBACK		
	30"	36"	42"
42"	SHOWN ABOVE	AVERAGE FC: 20.84 MAX / MIN: 4.90	AVERAGE FC: 18.65 MAX / MIN: 5.04
48"	AVERAGE FC: 20.74 MAX / MIN: 4.66	SHOWN ABOVE	AVERAGE FC: 16.64 MAX / MIN: 5.04
54"	AVERAGE FC: 18.75 MAX / MIN: 4.75	AVERAGE FC: 16.82 MAX / MIN: 4.68	SHOWN ABOVE

***ALL DATA REFLECTS 17A WATTAGE PACKAGE**

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[DATE OF REV: 09232025]

CYLINDER 1 SUSPENDED STEM DROPKIT

STATIC WHITE PERFORMANCE - 3000K

LUMEN PACKAGE	WATTS	10° OPTIC FIELD REDUCER		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS		WALLWASH WALLWASH LENS		ADJ. WALLWASH WALLWASH LENS	
		DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW
80S11A	11	-	-	891	76	1080	98	1088	98	1002	91	1104	100	1160	105	908	82
80S17A/C	17	587	35	1451	73	1623	95	1624	95	1495	88	1643	96	1776	104	1357	79
90S11A	11	-	-	846	76	931	84	938	85	864	78	952	86	1000	90	783	71
90S17A/C	17	506	28	1251	73	1399	82	1400	82	1291	75	1416	83	1531	90	1170	68
97S11A	11	-	-	744	67	819	74	825	75	760	69	838	76	880	80	689	62
97S17A/C	17	437	26	1101	64	1231	72	1232	72	1136	66	1246	73	1347	79	1030	60
90L17AL (2700K-1800K)	18	-	-	1125	66	1262	74	1241	73	1154	68	1280	75	1186	70	687	62
90L17AD (3000K-1800K)	18	-	-	1148	68	1283	75	1284	76	1184	70	1299	76	1405	83	1073	63
90T17ATR (4000K-1800K)	17	-	-	1112	65	1230	72	1234	72	1157	68	1291	75	1192	70	994	58
90T17ATH (5000K-2700K)	17	-	-	1100	64	1213	71	1215	71	1174	69	1251	73	1178	69	982	57

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.76
2700K	0.957
3000K	1.000
3500K	1.019
4000K	1.030

MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
No Lens	1.07
CGL	0.99
SFL	1.00
FGL	0.90
FSFL	0.84
FLSL	0.85
HCL	0.68
SFL+HCL	0.63

TUNABLE WHITE MULTIPLIER

CCT	5000K-2700K	4000K-1800K
5000K	1.16	-
4000K	1.08	1.14
3500K	1.04	1.07
3000K	1.00	1.00
2700K	0.96	0.92
2400K	-	0.84
1800K	-	0.69

JA8-2022 INDICATED BY SHADING

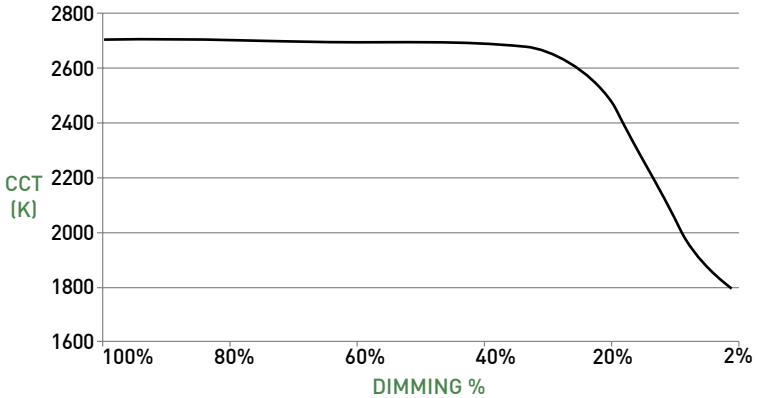
UNIFIED GLARE RATING

10° OPTIC FIELD REDUCER	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS	WALLWASH WALLWASH LENS
<16	<16	<10	<10	<10	<16	>19

WARM DIM PERFORMANCE - SOFT FOCUS LENS - 60° OPTIC

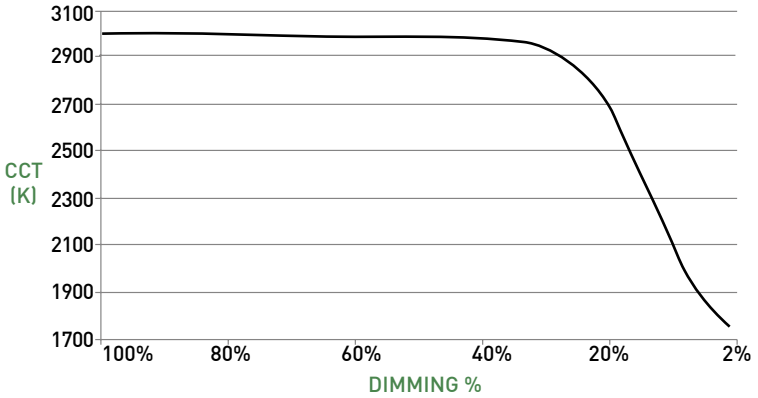
INCANDESCENT PROFILE

17AL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2500K	1950K	1800K
Light Output (Lm)	1280	1024	896	640	256	128	26
Power (W)	17	13.6	11.9	8.5	3.4	1.7	0.3
Efficacy (LPW)	66	66	66	66	66	66	66



HALOGEN PROFILE

17AD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	2150K	1800K
Light Output (Lm)	1299	1039	909	650	260	130	26
Power (W)	17	13.6	11.9	8.5	3.4	1.7	0.3
Efficacy (LPW)	68	68	68	68	68	68	68



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

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CYLINDER 1 SUSPENDED STEM DROPKIT

CYLINDER ASSEMBLY

A ADJUSTABLE - STANDARD CANOPY
Die-cast canopy accommodates flat and sloped ceiling conditions. Conceals hidden mounting hardware. "AD" (90° tilt, 365° rotation) canopy features 1.76" (45mm) tall canopy. Available with integral or remote driver.

B ADJUSTABLE - SHALLOW CANOPY
Die-cast canopy accommodates flat and slope ceiling conditions. Conceals hidden mounting hardware. "AS" (90° tilt, 365° rotation) canopy features 0.65" (17mm) tall canopy, reducing overall height. Requires remote power supply.

C FIXED BODY
Body with integrated heat sink and LED. Conceals mounting hardware. Power supply may be integral or remote mount.

D WALLWASH FIXED BODY

E1 OPTICS
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

E2 10° FIELD REDUCER
Soft Focus Lens, Honeycomb Louver, and Field Reducer provided with 10 degree beam selection. Reduces field angle by 10%

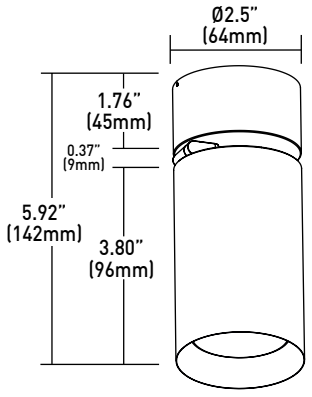
F MEDIA
Cylinder accepts two lenses; soft focus lens, no lens, or wallwash lens standard. Sealed in place for Wet locations.

G BAFFLE
Die-cast baffle minimizes aperture glare and conceals view into fixture.

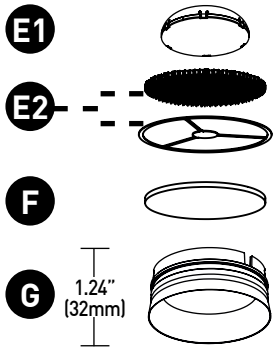
H DROPKIT
- Field cuttable rigid stem for suspending fixture at desired height. Provides stable base to allow preferred fixture tilt, while maintaining vertical stem position.
- Ball joint allows up to 45° tilt for sloped ceilings and can be locked once stem is positioned vertically.
- Four 43" sections available; 172" maximum standard length.
- Length adjustment occurs in lower canopy.
- Wiring for kit provided by others.

DIMENSIONS / DRAWINGS

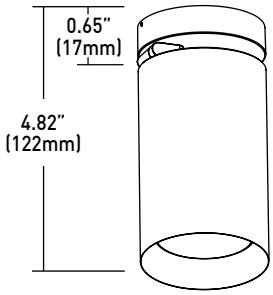
A ADJUSTABLE BODY STANDARD CANOPY



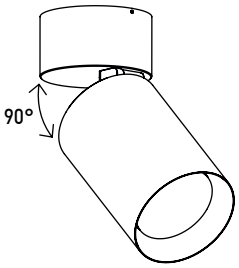
Cylinder weight
0.90 lbs

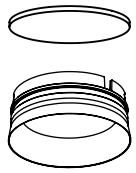


B ADJUSTABLE BODY SHALLOW CANOPY

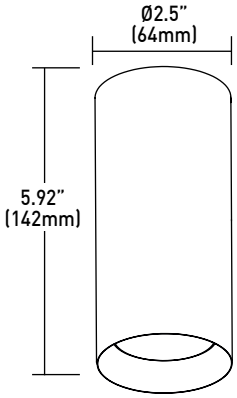


Cylinder weight
0.85 lbs

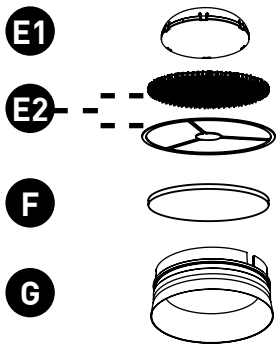




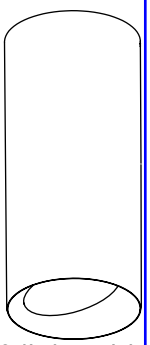
C FIXED BODY



Cylinder weight
0.90 lbs



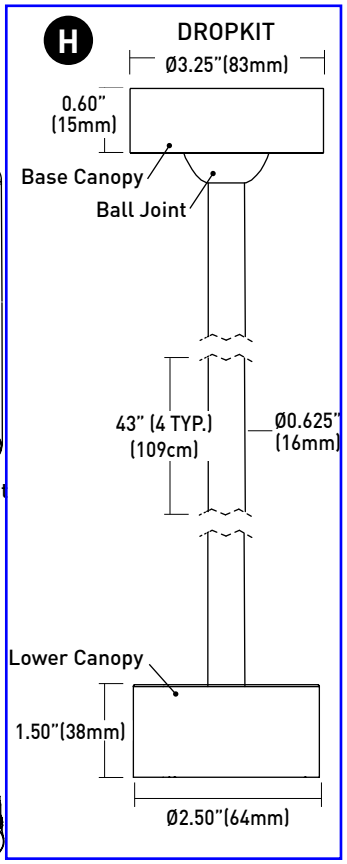
D WALLWASH FIXED BODY



Cylinder weight
0.90 lbs



H DROPKIT



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CYLINDER 1 SUSPENDED STEM DROPKIT

MOUNTING

I **JBMP**
Mounting plate (concealed) for standard 4" square or 4" 4/0 j-box . To be installed during rough-in, prior to substrate, for ceiling thicknesses up to 0.75". Fixture to mount flush with minimalist transition to ceiling.

Part Number - CDX-JBMP

J **SMK3**
Surface mount kit includes mounting plate and 4" concealer plate that installs between fixture and standard 3" 3/0 j-box for existing applications where standard j-box cutout is to be concealed.

Part Number - CDX-SMK-3/0-(FINISH)

K **SMK4**
Surface mount kit includes mounting plate and 5" concealer plate that installs between fixture and standard 4" 4/0 j-box for existing applications where standard j-box cutout is to be concealed.

Part Number - CDX-SMK-4/0-(FINISH)

L **CMJB**
Ceiling mount junction box perfectly matches the cylinder profile for a continuous, integrated look where exposed ceiling mount junction box and conduit applications apply. For use with 1/2" and 3/4" EMT conduit only. Features two conduit entrances on either side and one conduit knockout on top of j-box. J-box is IP10 rated; painted finishes only. Blank off plugs included.

Part Number - CDX-CMJB-(FINISH)

MOUNTING NOTES

- CDX-JBMP and CDX-SMK-3/0 & 4/0 not recommended for use with pancake style j-box.
- Fixtures are surface mount and must have access to free air. For applications involving slat ceilings or confined mounting, consult Comprehensive Install Guide for required clearances for proper air flow and servicing.

REMOTE POWER SUPPLY

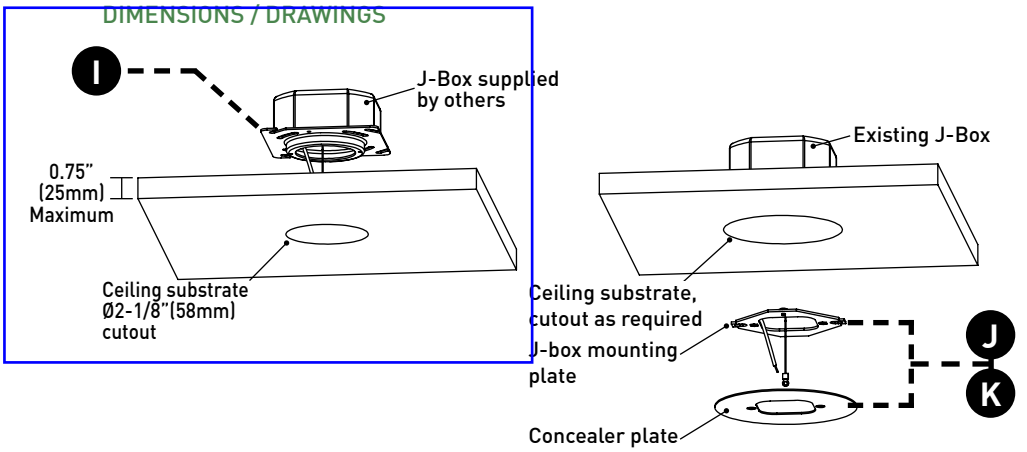
M **PS-RMT**
Remote power supply must be mounted in accessible area. Mounting device still required. Consult page 8 for dimming compatibility list. Consult install guide for complete details of suitable controls, wiring diagrams, and maximum allowable secondary run lengths between PS-RMT and cylinder.

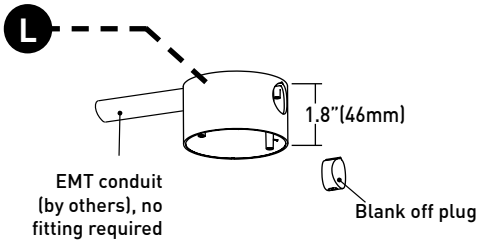
N **ATHENA / CASAMBI CONTROL**
Controls integrated into remote driver assembly. All equipment is serviceable.

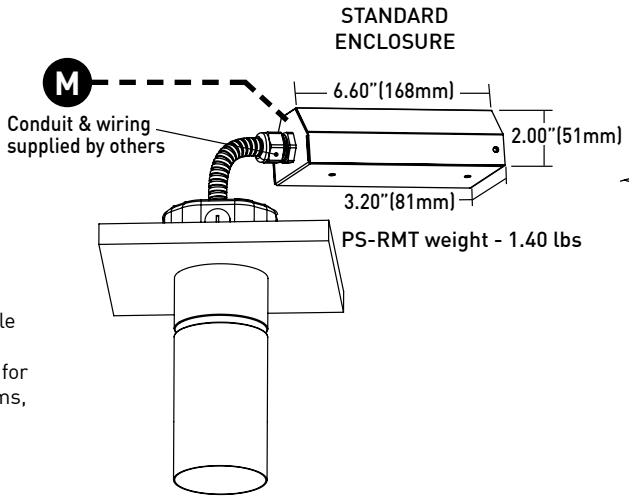
Athena Model Number: A-WN-D01-RF-BL & DC-OEM-DBI

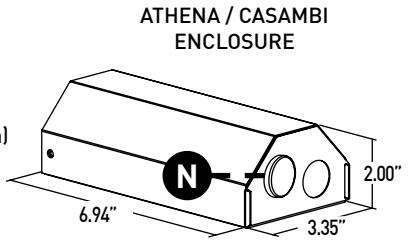
Casambi Model Number: BT-S1E1-5400

DIMENSIONS / DRAWINGS









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CYLINDER 1 SUSPENDED STEM DROPKIT

TECHNICAL

CONSTRUCTION
Cylinder: Die-cast aluminum body with integrated heat sink; painted finishes are granulated powder coat. Alumina finishes are anodized aluminum.
Dropkit Stem Assembly: Die-cast aluminum canopies and extruded aluminum stems; painted finishes are granulated powder coat.
CMJB: Die-cast aluminum body; painted finishes are granulated powder coat.
Remote Power Supply: 22 Gauge galvanized steel.

STATIC WHITE LED
2-step MacAdam ellipse LED module available in 80+, 90+ and 95+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K.
3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temprtature of 2400K. Average rated lamp life: 50,000 hours. LED and driver assemblies are field-replaceable.

WARM DIM LED
3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

TUNABLE WHITE LED
3-Step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K and 1800K to 4000K. Average rated lamp life of 50,000 hours. Driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE		0-10V							ECO	DALI			ATHENA	CASAMBI
Power Supply	1CE/1RE	1TR	UCA/URA	UAN	ULN	UEG	UEN	UDG	UDN	ULH	UED	ULD	UDD	UAS/UAD	UCS/UCD
Minimum °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	0 °C	-20 °C	-20 °C	-20 °C	0 °C	-20 °C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	1.0%	2.0%	1.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For 1TR, ULH, UAN, ULN, UEG and UEN drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG				
DRIVER	12	14	16	18	20
URA, 1RE	-	164'	105'	66'	40'
1TR, UAN, ULN	285'	180'	113'	71'	45'
ULH	60'	40'	25'	15'	-
UEG, UEN, UED, ULD, DD1, DG1, DN1, UAS, UCS, UAD, UCD	-	-	118'	72	46'

FIXTURE SPACING
Recommended fixture on-center spacing is 12" (305mm) at minimum. In slat ceiling applications, fixture must have 0.5" (13mm) minimum clearance on no more than two sides. Recessed conditions require 1.5" (38mm) setbacks on all sides.

WALLWASH SPACING AND TILT
Adjustable Wallwash Cylinder must be tilted to achieve wallwashing effect. Recommended fixture spacing is 36" (914mm) on center with 36" (914mm) setback from wall plane with 30° tilt.

MOUNTING
Cylinder is supplied with a mounting adaptor plate, which integrates with required additional mounting accessories specified separately according to field application conditions, providing a minimalist transition from standard 4/0 or 4" square junction boxes and accommodating ceiling thicknesses of 0.44" (12mm) to 0.75" (19mm). Ceiling-mount junction box available for 1/2" (13mm) and 3/4" (19mm) conduit and feature concealed internal clamps for clean fitting-free conduit exit and entry.

LISTING
cTUVus listed to UL1598 standard for Dry / Damp (IP30) location. Title 24 JA8-2022 Listed. NEMA 410 Compliant. Buy American Act compliant.

DECLARE
LBC Red List Approved.

WARRANTY
Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. 5-year warranty on LED and power supply to operate with 70% of the original flux and remain within a range of 3 duv. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG
1. 03/15/2024: ADDED 10 DEGREE FIELD REDUCER, UPDATED 10 DEGREE PERFORMANCE DATA.
2. 07/22/2024: REMOVED L2 DRIVER.
3. 05/07/2025: UPDATED WARM DIM OFFERINGS AND PERFORMANCE.
4. 09/23/2025: DISCONTINUED EM SHUNT OFFERINGS.

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CYLINDER 1 SUSPENDED STEM DROPKIT

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply **1TR Manufacturer**	**Family/Model #**
Lutron Electronics	DV-600P
Lutron Electronics	DVELV-303P
Lutron Electronics	NTELV-600
Lutron Electronics	MAELV-600
Lutron Electronics	SELV-300P
Lutron Electronics	DVLV-600P
Lutron Electronics	NFTU-5A
Lutron Electronics	CTCL-153P
Lutron Electronics	GL-600H
Lutron Electronics	S-600P
Lutron Electronics	PHPM
Power supply **UAN / ULN Manufacturer**	**Family/Model #**
Lutron Electronics	DVTV plus PP-DV
Lutron Electronics	DVSCTV plus PP-DV
Lutron Electronics	DVSTV
Lutron Electronics	DVSCSTV
Lutron Electronics	QSGRJ-XP plus GRX-TVI
Lutron Electronics	QSGRJ-XE plus GRX-TVI
Lutron Electronics	QSGR-XE plus GRX-TVI
Lutron Electronics	NFTV plus PP-DV
Lutron Electronics	NTSTV
Lutron Electronics	RMJ-5T
Lutron Electronics	RMJS-8T
Lutron Electronics	FCJS-010
Leviton	IllumaTch IP7 series
Philips	Sunrise - SR1200ZTUNV

LUTRON DRIVER COMPATIBILITY

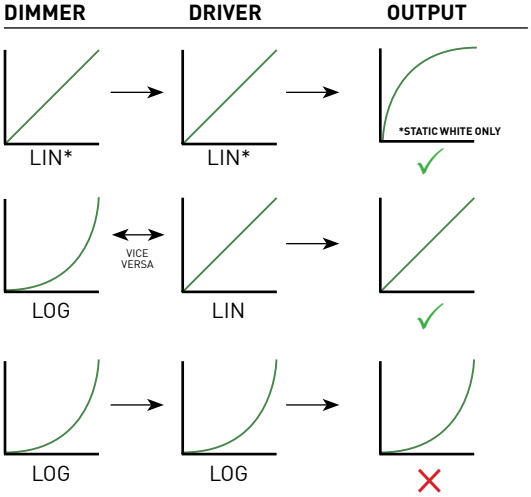
Power supply **ULH Lutron Product Family**	**Part No.**
PowPak Dimming Modules	RMJ-ECO32-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJ-_E (wireless) QSGR-_E
Quantum Hub	QP2-_ _ 2C
Quantum Hub	QP2-_ _ 4C
Quantum Hub	QP2-_ _ 6C
Quantum Hub	QP2-_ _ 8C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D

LUTRON 2016 OEM ADVANTAGE ACCOUNT

eldoLED DRIVER COMPATIBILITY

Power supply **UEG / UEN Dimmer / Switch Control Manufacturer**	**Family/Model #**
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Sensor Switch	nIO EZ
Synergy	ISD BC
Power supply **UEG / UEN Lighting Control Systems Manufacturer**	**Family/Model #**
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
Crestron®	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV8-*
Crestron®	GLPP-DIMFLVEX-PM
Crestron®	GLPP-1DIMFLV2EX-PM
Crestron®	GLPP-1DIMFLV3EX-PM
Crestron®	DIN-AO8
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX
ABB	SD/S 2.16.1

ANALOG DRIVERS AND DIMMERS



LIN = LINEAR
LOG = LOGARITHMIC
*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM

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[DATE OF REV: 09232025]

SURFACE TRACK

PROJECT NAME:	TYPE:

TRACK COMPONENTS

Highlight art, objects, places, spaces, seating areas, and architectural details with a classic profile that offers easy-to-adjust, in-field versatility.

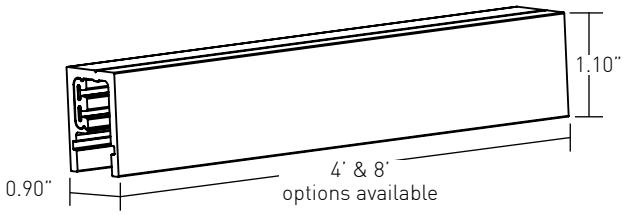


SURFACE TRACK

Straight, isolated, 4' or 8', field cuttable. Requires connection to electrical feed-connector or current limiter, and is available with multiple connectors to support varying configurations.

Qty.

___ ☐ **TCS - TRACK - I4 - **** 4' Length
___ ☐ **TCS - TRACK - I8 - **** 8' Length

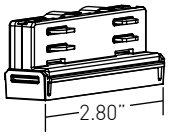


JUMPER

Joins two straight surface track components to form a longer, continuous track system.

Qty.

___ ☐ **TCS - CON - JUMPER - ****



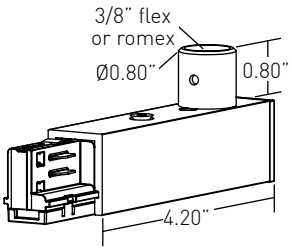
ELECTRICAL FEED CONNECTORS

LEFT END LIVE FEED CONNECTOR

Left end, live feed connector can be fed by MC Cable or Romex Wire directly. Connects to a single surface track component. Includes (1) TCS-CON-DER-** dead-end fitting.

Qty.

___ ☐ **TCS - LIVE - END - ****

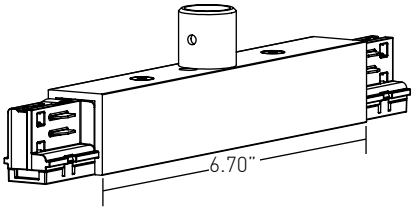


INLINE LIVE FEED CONNECTOR

Inline, live feed connector can be fed by MC Cable or Romex Wire directly. Allows for the joining of two surface track components. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ **TCS - LIVE - INLINE - ****

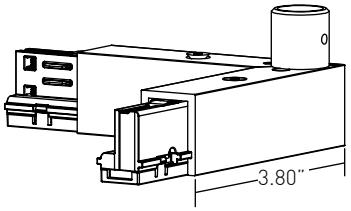


CORNER LIVE FEED CONNECTOR

Corner, live feed connector can be fed by MC Cable or Romex Wire directly. Allows for two surface track components to be joined at a 90° angle. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ **TCS - LIVE - CORNER - ****



****** Track component color: Specify **WH** for white or **BK** for black.

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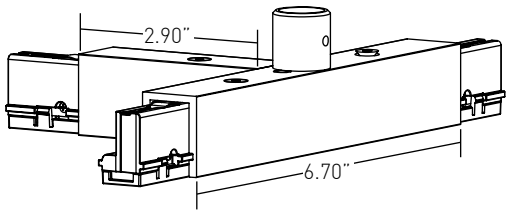
SURFACE TRACK

T LIVE FEED CONNECTOR

T, live feed connector can be fed by MC Cable or Romex Wire directly. Allows for three surface track components to be joined inline and at a 90° angle. Includes (2) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - LIVE - T - **

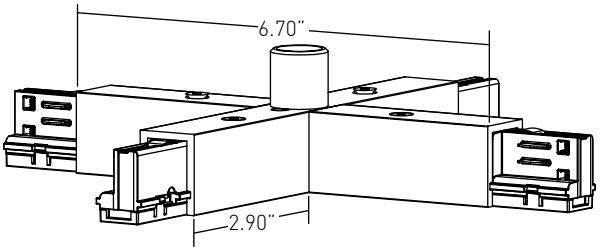


X LIVE FEED CONNECTOR

X, live feed connector can be fed by MC Cable or Romex Wire directly. Allows for four surface track components to be joined. Includes (2) TCS-CON-DEL-** and (2) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - LIVE - X - **

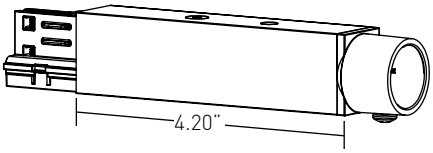


LEFT END CONDUIT FEED CONNECTOR

Left end, live feed connector available for ceiling mount conduit. Includes adaptors for 1/2" and 3/4" EMT conduit and 1/2" flex conduit. Connects to a single surface track component. Includes (1) TCS-CON-DER-** dead-end fitting.

Qty.

___ ☐ TCS - CONDUIT - END - **

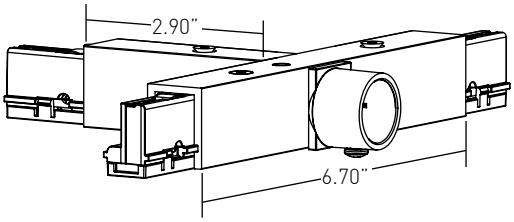


T CONDUIT FEED CONNECTOR

T, live feed connector available for ceiling mount conduit. Includes adaptors for 1/2" and 3/4" EMT conduit and 1/2" flex conduit. Allows for three surface track components to be joined inline and at a 90° angle. Includes (2) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - CONDUIT - T - **

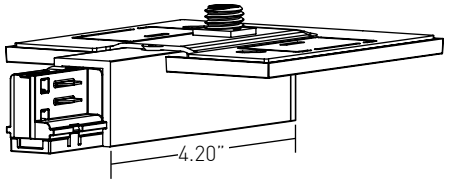


END JUNCTION BOX CONNECTOR

Left end, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Connects to a single surface track component. Not for use with surface mount j-box. Includes (1) TCS-CON-DER-** dead-end fitting.

Qty.

___ ☐ TCS - JBOX - END - **

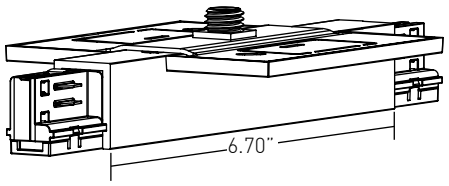


INLINE JUNCTION BOX CONNECTOR

Inline, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Allows for the joining of two surface track components. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings. Not for use with surface mount j-box.

Qty.

___ ☐ TCS - JBOX - INLINE - **



****** Track component color: Specify **WH** for white or **BK** for black.

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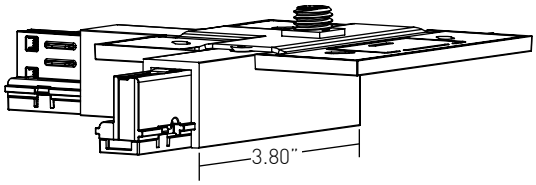
SURFACE TRACK

CORNER JUNCTION BOX CONNECTOR

Corner, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Allows for the joining of two surface track components at a 90° angle. Not for use with surface mount j-box. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - JBOX - CORNER - **

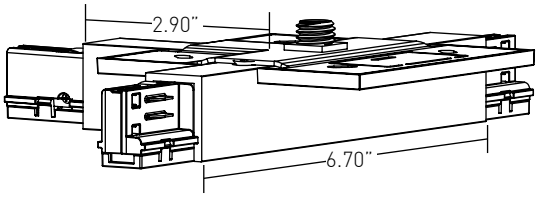


T JUNCTION BOX CONNECTOR

T, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Allows for three surface track components to be joined inline and at a 90° angle. Not for use with surface mount j-box. Includes (2) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - JBOX - T - **



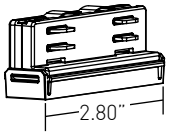
TRACK COUPLER CONNECTORS

JUMPER

Joins two straight surface track components to form a longer, continuous track system.

Qty.

___ ☐ TCS - CON - JUMPER - **

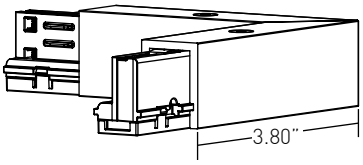


CORNER CONNECTOR

Joins two straight surface track components at a 90° angle to form a longer, continuous track system.

Qty.

___ ☐ TCS - CON - CORNER - **

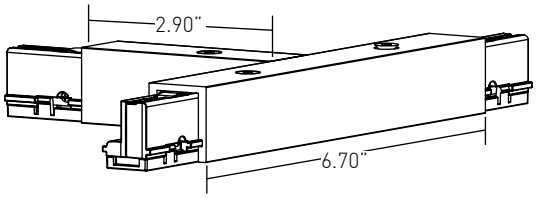


T CONNECTOR

Joins three straight surface track components inline and at a 90° angle to form a longer, continuous track system. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - CON - T - **

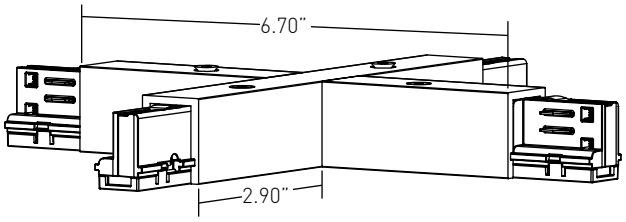


X CONNECTOR

Joins four sections of track to form a longer, continuous track system. Includes (2) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - CON - X - **



**** Track component color: Specify **WH** for white or **BK** for black.

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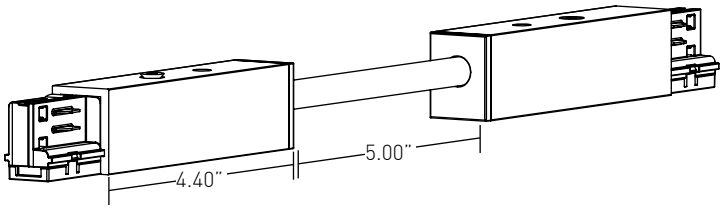
SURFACE TRACK

FLEXIBLE CONNECTOR

Joins two straight surface track components with a flexible connector to form a longer, continuous track system.

Qty.

___ ☐ **TCS - CON - FLEX - ****

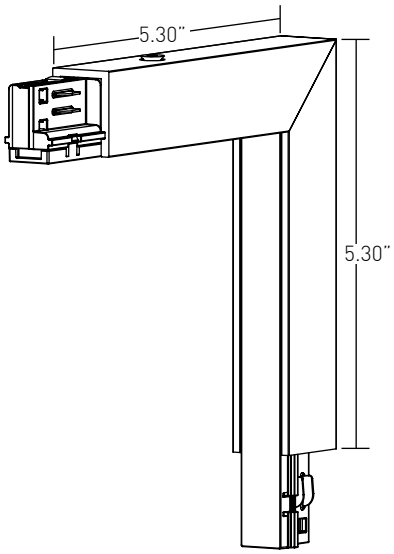


VERTICAL CONNECTOR

Joins two straight surface track components transitioning from the ceiling to the wall to form a longer, continuous track system.

Qty.

___ ☐ **TCS - CON - VERTICAL - ****



ACCESSORIES

Qty.

___ ☐ **TC - CSINK**	Countersink and drill tool guide
___ ☐ **TC - CVR - 8 - ****	Track gap cover, 8' (can be field cut)
___ ☐ **TCS - CON - DEL - ****	Left dead-end fitting, included with power feeds as noted above.
___ ☐ **TCS - CON - DER - ****	Right dead-end fitting, included with power feeds as noted above.

****** Track component color: Specify **WH** for white or **BK** for black.

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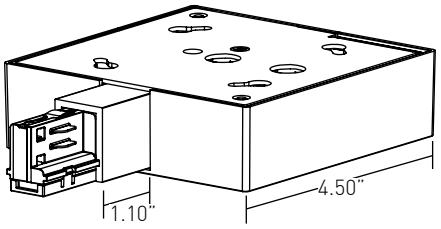
CURRENT LIMITERS

LEFT END CURRENT LIMITER

Left end, current limiter, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Connects to a single surface track component. Not for use with surface mount j-box. Includes (1) TCS-CON-DER-** dead-end fitting

Qty.

___ ☐ TCS - CL - LL - CT12 - ** - ##

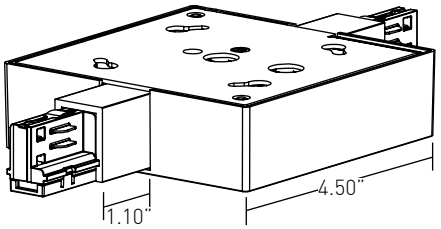


INLINE CURRENT LIMITER

Inline, current limiter, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Allows for the joining of two surface track components. Not for use with surface mount j-box. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - CL - LS - CT12 - ** - ##

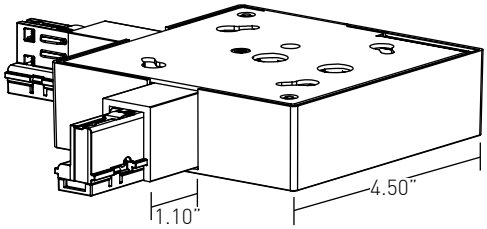


CORNER CURRENT LIMITER

Corner, current limiter, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Allows for the joining of two surface track components at a 90° angle. Not for use with surface mount j-box. Includes (1) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - CL - LC - CT12 - ** - ##

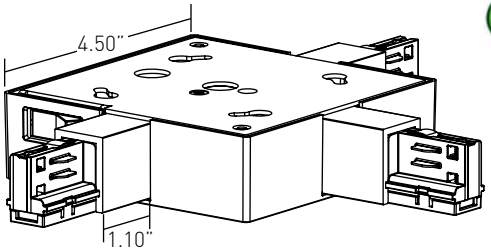


T CURRENT LIMITER

T, current limiter, j-box mounting plate mounts directly to bottom of customer supplied 4" Octagon box. Allows for three surface track components to be joined inline and at a 90° angle. Not for use with surface mount j-box. Includes (2) TCS-CON-DEL-** and (1) TCS-CON-DER-** dead-end fittings.

Qty.

___ ☐ TCS - CL - LT - CT12 - ** - ##



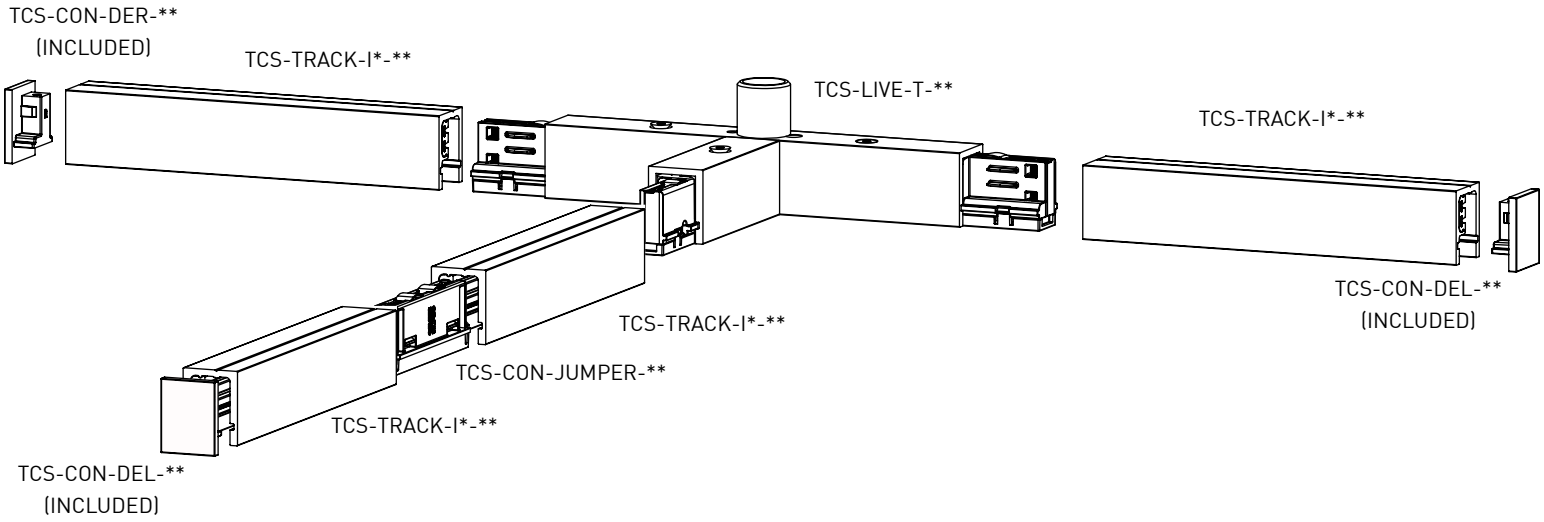
****** Track component color: Specify **WH** for white or **BK** for black.

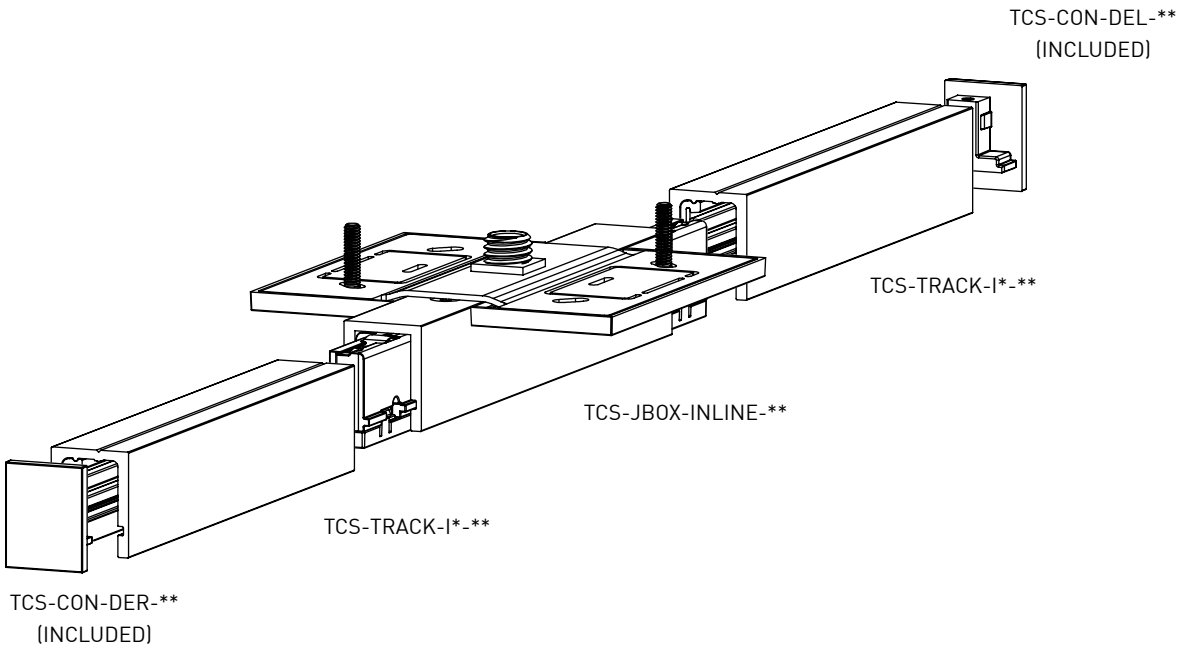
Current: Specify **05** for 0.5A, **10** for 1A, **15** for 1.5A, **20** for 2A, **25** for 2.5A, **30** for 3A, **50** for 5A, or **80** for 8A.

AMPERAGE	WATTAGE
0.5	60
1.0	120
1.5	180
2.0	240
2.5	300
3.0	360
5.0	600
8.0	960

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SURFACE TRACK

TECHNICAL

CONSTRUCTION
Track & Track Connectors: Extruded aluminum; painted finishes are granulated powder coat.

POWER
Must utilize current limiter connector or panel based current limiter (supplied by others), if needed. Available for use with 120V single circuit only. Track powered via live feed connectors or j-box mounting plate connectors. At least one live feed or junction box connector must be selected to provide power to track assembly.

MOUNTING
Track may be mounted to any horizontal surface. Track and Track Components specified separately according to field application conditions. J-box mounting plate connectors provide a minimalist transition from customer supplied 4" Octagon box and accommodates ceiling thicknesses of 0.44" (12mm) to 0.75" (20mm).

LISTING
cTUVus listed to UL1598 standard for Dry locations. Title 24 JA8-2019 Listed.

DECLARE
LBC Red List Approved.

TRACK HEADS
Surface Track is compatible with all Lucifer Lighting Track Heads, specified separately.

WARRANTY
Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG
1. 05/12/2023: ADDED LBC RED LIST APPROVED.

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ATH01A

PROJECT NAME:	TYPE:

TRACK HEAD
MONOPOINT INSPIRED
CTM2 ADJUSTABLE

Highlight art, objects, places, spaces, seating areas, and architectural details with a classic profile that offers easy-to-adjust, in-field versatility.



ORDERING INFORMATION - TRACK HEAD

JA8-2022 COMPLIANCE INDICATED BY SHADING

CYLINDER	FIXTURE	STEM LENGTH	RATING	BODY FINISH	BAFFLE FINISH	STEM FINISH	ADAPTER FINISH	CRI / WATTAGE PACKAGE	CCT	OPTIC (UGR)	DRIVER	MEDIA
CTM2			**1**								**CE3**	
CTM2 3.25"	**A** Adjustable 90° Tilt **L** Locking Track Adaptor, Adjustable 90° Tilt* ***(Required for Wall Mount)**	**LENGTHS** **SL** 1.4" Standard **04** 4" **06** 6" **08** 8" **CUSTOM LENGTHS** **XX** Specify in 1" increments between 2"-7" (Ex. 2" = 02)* ***(Increased lead time)** **STEMS ARE NOT FIELD CUTTABLE**	**1** Dry	**POWDERCOAT** **WH** White **BK** Black **AB** Architectural Bronze **AG** Satin Silver **AU** Cashmere Gold **BB** Burnt Bronze CF - Custom **ALUMINA** **01** Brushed Obsidian **02** Matte Obsidian **03** Brushed Dark Patinated Bronze **04** Matte Dark Patinated Bronze **05** Brushed Aged Aluminum **06** Matte Aged Aluminum **07** Brushed Cast Brass **08** Matte Cast Brass **09** Brushed Light Patinated Bronze **10** Matte Light Patinated Bronze	**POWDERCOAT** **WH** White **BK** Black **AB** Architectural Bronze **AG** Satin Silver **AU** Cashmere Gold **BB** Burnt Bronze CF - Custom **ALUMINA** CONSULT FACTORY FOR ALUMINA FINISHES	**POWDERCOAT** **WH** White **BK** Black **AB** Architectural Bronze **AG** Satin Silver **AU** Cashmere Gold **BB** Burnt Bronze CF - Custom **ALUMINA** CONSULT FACTORY FOR ALUMINA FINISHES	**WH** White **BK** Black CF - Custom	**STATIC WHITE** **80S11A** 80+ CRI, 11 Watts Lumens Delivered - 1216 **80S17A** 80+ CRI, 17 Watts Lumens Delivered - 1843 **90S11A** 90+ CRI, 11 Watts Lumens Delivered - 1045 **90S17A** 90+ CRI, 17 Watts Lumens Delivered - 1583 **97S11A** 97+ CRI, 11 Watts Lumens Delivered - 918 **97S17A** 97+ CRI, 17 Watts Lumens Delivered - 1390 **WARM DIM** **90L17A** 90+ CRI, 17 Watts Incandescent Profile Lumens Delivered - 1244 Halogen Profile Lumens Delivered - 1309 SEE PAGE 2 FOR WARM DIM PROFILE COMPARISON. LUMENS DELIVERED AND T24 COMPLIANCE REFLECT 3000K PAIRED WITH 20° OPTIC AND SOFT FOCUS LENS.	**24** 2400K* *(90+ CRI only) **27** 2700K **30** 3000K **35** 3500K **40** 4000K **WL** 2700K - 1800K **WD** 3000K - 1800K	**10** 10° (>19) **15** 15° (<13) **20** 20° (<10) **25** 25° (<10) **40** 40° (<10) **60** 60° (<16) **15** 15° (<13) **20** 20° (<10) **25** 25° (<10) **40** 40° (<10) **60** 60° (<13)	**INTEGRAL** **CE3** Electronic 2% ELV / TRIAC 120V	**STANDARD MEDIA** **4** Soft Focus Lens* ***(Required for 10° optic)** **ALTERNATE MEDIA** **2** Honeycomb Louver **3** Clear Glass Lens **5** Frosted Glass Lens **6** Frosted Soft Focus Lens **7** Frosted Linear Spread Lens **S** Soft Focus Lens w/ Honeycomb Louver **F** Frosted Glass Lens w/ Honeycomb Louver **N** No Lens

ALUMINA FINISHES BY LUCIFER LIGHTING™

(01) Brushed Obsidian
(03) Brushed Dark Patinated Bronze
(05) Brushed Aged Aluminum
(07) Brushed Cast Brass
(09) Brushed Light Patinated Bronze
(02) Matte Obsidian
(04) Matte Dark Patinated Bronze
(06) Matte Aged Aluminum
(08) Matte Cast Brass
(10) Matte Light Patinated Bronze

POWDERCOAT FINISHES

(WH) White
(BK) Black
(AB) Architectural Bronze
(AG) Satin Silver
(AU) Cashmere Gold
(BB) Burnt Bronze

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ATH01A

TRACK HEAD MONOPOINT INSPIRED CTM2 ADJUSTABLE

ACCESSORIES

ALTERNATE MEDIA

- ☐ **HCL-CT2** Honeycomb Louver
- ☐ **CGL-CT2** Clear Glass Lens
- ☐ **SFL-CT2** Soft Focus Lens
- ☐ **FGL-CT2** Frosted Glass Lens
- ☐ **FSFL-CT2** Frosted Soft Focus Lens
- ☐ **FLSL-CT2** Frosted Linear Spread Lens

REPLACEMENT OPTICS

Interchangeable optics accessible by removing baffle.

Static White		Warm Dim	
☐ **RO-70-15-S**	15° optic	☐ **RO-70-15-W**	15° optic
☐ **RO-70-20-S**	20° optic	☐ **RO-70-20-W**	20° optic
☐ **RO-70-25-S**	25° optic	☐ **RO-70-25-W**	25° optic
☐ **RO-70-40-S**	40° optic	☐ **RO-70-40-W**	40° optic
☐ **RO-70-60-S**	60° optic	☐ **RO-70-60-W**	60° optic

PERFORMANCE - 3000K

JA8-2022 INDICATED BY SHADING

LUMEN PACKAGE	WATTAGE	10° OPTIC SOFT FOCUS LENS		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S11A	11	613	55	1143	104	1216	111	1202	109	1124	102	949	86
80S17A	17	828	49	1750	103	1843	108	1823	107	1690	99	1440	85
90S11A	11	528	48	982	89	1045	95	1033	94	966	88	815	74
90S17A	17	714	42	1503	88	1583	91	1566	92	1452	85	1237	73
97S11A	11	456	41	862	78	918	83	907	82	848	77	716	65
97S17A	17	616	36	1320	78	1390	82	1375	81	1275	75	1086	64
90L17AL (2700K-1800K)	17	-	-	1249	73	1244	73	1229	72	1177	69	1046	62
90L17AD (3000K-1800K)	17	-	-	1314	77	1309	77	1293	76	1238	73	1100	65

MEDIA LIGHT LOSS MULTIPLIER

MEDIA	LIGHT LOSS FACTOR
No Lens	1.05
CGL	0.97
SFL	1.00
FGL	0.85
FSFL	0.82
FLSL	0.78
WDL	0.00
HCL	0.75
SFL W/ HCL	0.68
FGL W/ HCL	0.47

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.000
3500K	1.03
4000K	1.08

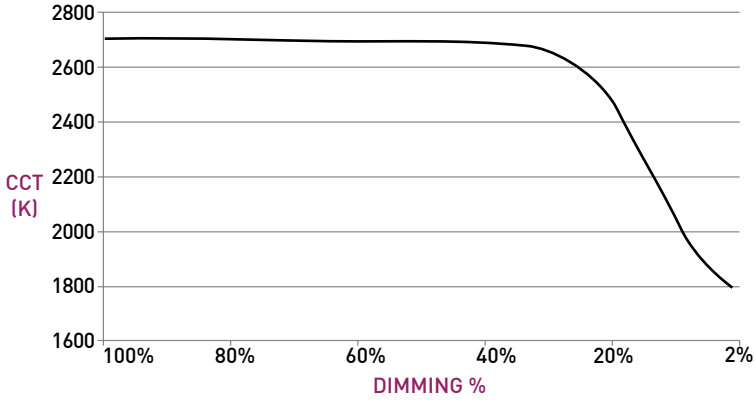
UNIFIED GLARE RATING

10° OPTIC SOFT FOCUS LENS	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS
>19	<13	<10	<10	<10	<16

WARM DIM PERFORMANCE - SOFT FOCUS LENS - 20° OPTIC

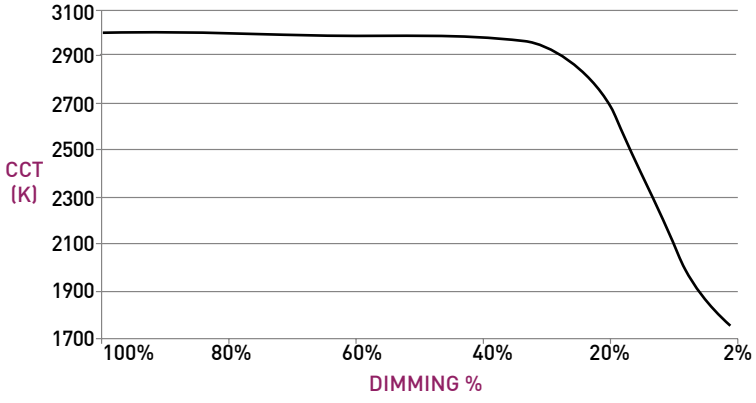
INCANDESCENT PROFILE

90L17AWL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2700	2700	2700	2500	1950	1800
Light Output (Lm)	1244	995	871	622	249	124	25
Power (W)	17	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	73	73	73	73	73	73	73



HALOGEN PROFILE

90L17AWD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000	3000	3000	3000	3000	2150	1800
Light Output (Lm)	1309	1047	916	655	262	131	26
Power (W)	17	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	77	77	77	77	77	77	77



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

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TRACK HEAD MONOPOINT INSPIRED CTM2 ADJUSTABLE

ATH01A

TRACK HEAD

A ADJUSTABILITY
Up to 90° lockable tilt and 370° lockable rotation.

B TRACK ADAPTER
Proprietary asymmetric track adapter; compatible with Lucifer Lighting track only. Available in Black and White finishes to match track systems.

C STEM
Standard length is 1.4", available in even-inch increments from 2"- 8". Stem is not field cuttable. Powdercoat finishes standard, consult factory for Alumina finishes.

D BODY
Power supply integrated into fixture body. Available in powdercoat and Alumina finishes.

E OPTICS
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

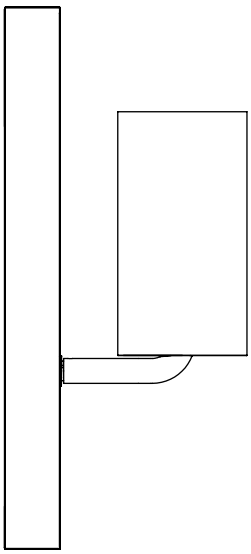
F 10° FIELD REDUCER
Provided with 10° optic, includes honeycomb louver. Reduces field angle by 30%.

G MEDIA
Soft Focus Lens standard. Wet location media sealed in place.

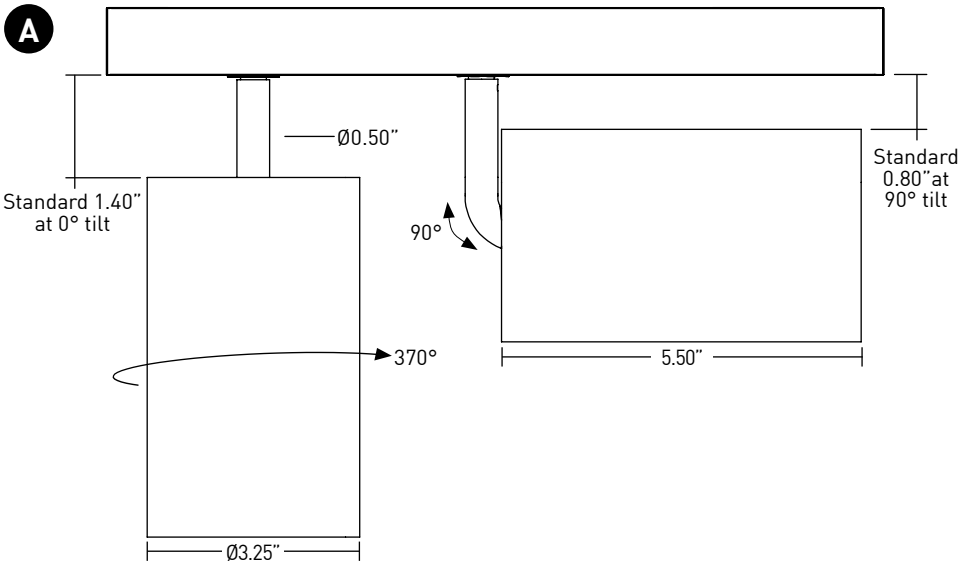
H BAFFLE
Accepts 2 media devices. Baffle minimizes aperture glare and conceals view into fixture. Powdercoat finishes standard, consult factory for Alumina finishes.

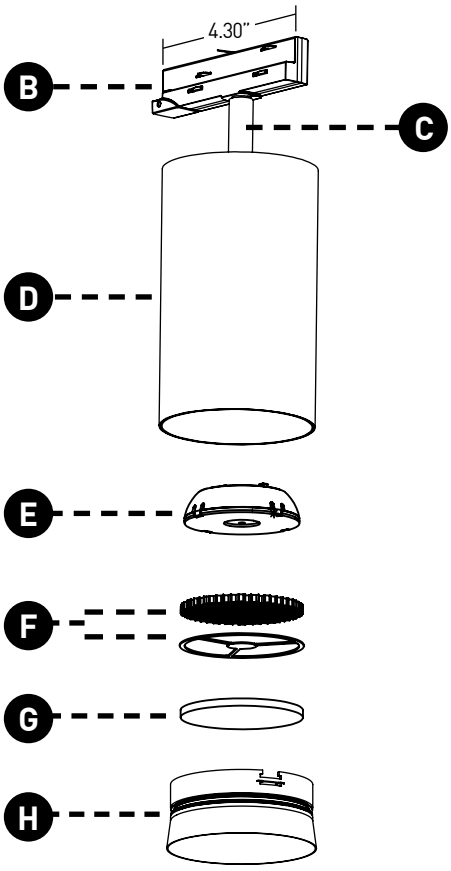
WALL MOUNT

- CTM2 may be installed in vertical track or wall mounted. Must specify fixture as Wall Mount "L".



DIMENSIONS / DRAWINGS





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TRACK HEAD MONOPOINT INSPIRED CTM2 ADJUSTABLE

TECHNICAL

CONSTRUCTION
Track Head: Machined aluminum body; painted finishes are granulated powder coat; Alumina finishes are anodized aluminum.

STATIC WHITE LED
2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temperature of 2400K. Average rated lamp life of 50,000 hours.

WARM DIM LED
3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

Power Supply	CE3
Minimum °C	-20 °C
Maximum °C	40 °C
Dimming %	2.0%

MOUNTING
Cylinder track head mounts to recessed, surface or pendant mount track assemblies, specified separately.

LISTING
Listed to UL1574 standard for Dry locations. JA8-2022 Title 24 listed. NEMA 410 compliant

DECLARE
LBC Red List Approved.

LIMITED WARRANTY
Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service for 1-year. LED and power supplies are warranted to operate with 70% of original flux and remain within a range of 3 duv for a period of 5-years. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG
1. 03/16/2023: REMOVED ALL STEM LENGTH OFFERINGS EXCEPT STANDARD 1.4" LENGTH.
2. 05/12/2023: ADDED LBC RED LIST APPROVED.
3. 08/08/2023: ADDED NEW LED AND OPTIC SYSTEM.
4. 02/08/2024: ADDED 2400K OFFERING.
5. 03/18/2024: UPDATED 10 DEGREE NARROW BEAM TO UTILIZE FIELD REDUCER.
6. 09/19/2024: UPDATED WITH NEW BAFFLE DESIGN.
7. 09/30/2024: ADDED ADDITIONAL STEM LENGTHS UP TO 8" MAX.
8. 11/14/2024: ADDED ADDITIONAL POWDERCOAT FINISHES.
9. 05/07/2025: UPDATED WARM DIM OFFERING.

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ATH01B

PROJECT NAME:	TYPE:

TRACK HEAD
MONOPOINT INSPIRED
CTM2 ADJUSTABLE

Highlight art, objects, places, spaces, seating areas, and architectural details with a classic profile that offers easy-to-adjust, in-field versatility.



ORDERING INFORMATION - TRACK HEAD

JA8-2022 COMPLIANCE INDICATED BY SHADING

CYLINDER	FIXTURE	STEM LENGTH	RATING	BODY FINISH	BAFFLE FINISH	STEM FINISH	ADAPTER FINISH	CRI / WATTAGE PACKAGE	CCT	OPTIC (UGR)	DRIVER	MEDIA
CTM2			1								CE3	
CTM2 3.25"	**A** Adjustable 90° Tilt **L** Locking Track Adaptor, Adjustable 90° Tilt* ***(Required for Wall Mount)**	**LENGTHS** **SL** 1.4" Standard **04** 4" **06** 6" **08** 8" **CUSTOM LENGTHS** **XX** Specify in 1" increments between 2"-7" (Ex. 2" = 02)* ***(Increased lead time)** **STEMS ARE NOT FIELD CUTTABLE**	**1** Dry	**POWDERCOAT** **WH** White **BK** Black **AB** Architectural Bronze **AG** Satin Silver **AU** Cashmere Gold **BB** Burnt Bronze CF - Custom **ALUMINA** **01** Brushed Obsidian **02** Matte Obsidian **03** Brushed Dark Patinated Bronze **04** Matte Dark Patinated Bronze **05** Brushed Aged Aluminum **06** Matte Aged Aluminum **07** Brushed Cast Brass **08** Matte Cast Brass **09** Brushed Light Patinated Bronze **10** Matte Light Patinated Bronze	**POWDERCOAT** **WH** White **BK** Black **AB** Architectural Bronze **AG** Satin Silver **AU** Cashmere Gold **BB** Burnt Bronze CF - Custom **ALUMINA** CONSULT FACTORY FOR ALUMINA FINISHES	**POWDERCOAT** **WH** White **BK** Black **AB** Architectural Bronze **AG** Satin Silver **AU** Cashmere Gold **BB** Burnt Bronze CF - Custom **ALUMINA** CONSULT FACTORY FOR ALUMINA FINISHES	**WH** White **BK** Black CF - Custom	**STATIC WHITE** **80S11A** 80+ CRI, 11 Watts Lumens Delivered - 1216 **80S17A** 80+ CRI, 17 Watts Lumens Delivered - 1843 **90S11A** 90+ CRI, 11 Watts Lumens Delivered - 1045 **90S17A** 90+ CRI, 17 Watts Lumens Delivered - 1583 **97S11A** 97+ CRI, 11 Watts Lumens Delivered - 918 **97S17A** 97+ CRI, 17 Watts Lumens Delivered - 1390 **WARM DIM** **90L17A** 90+ CRI, 17 Watts Incandescent Profile Lumens Delivered - 1244 Halogen Profile Lumens Delivered - 1309 SEE PAGE 2 FOR WARM DIM PROFILE COMPARISON. LUMENS DELIVERED AND T24 COMPLIANCE REFLECT 3000K PAIRED WITH 20° OPTIC AND SOFT FOCUS LENS.	**24** 2400K* *(90+ CRI only) **27** 2700K **30** 3000K **35** 3500K **40** 4000K **WL** 2700K - 1800K **WD** 3000K - 1800K	**10** 10° (>19) **15** 15° (<13) **20** 20° (<10) **25** 25° (<10) **40** 40° (<10) **60** 60° (<16) **15** 15° (<13) **20** 20° (<10) **25** 25° (<10) **40** 40° (<10) **60** 60° (<13)	**INTEGRAL** **CE3** Electronic 2% ELV / TRIAC 120V	**STANDARD MEDIA** **4** Soft Focus Lens* ***(Required for 10° optic)** **ALTERNATE MEDIA** **2** Honeycomb Louver **3** Clear Glass Lens **5** Frosted Glass Lens **6** Frosted Soft Focus Lens **7** Frosted Linear Spread Lens **S** Soft Focus Lens w/ Honeycomb Louver **F** Frosted Glass Lens w/ Honeycomb Louver **N** No Lens

ALUMINA FINISHES BY LUCIFER LIGHTING™

(01) Brushed Obsidian
(03) Brushed Dark Patinated Bronze
(05) Brushed Aged Aluminum
(07) Brushed Cast Brass
(09) Brushed Light Patinated Bronze
(02) Matte Obsidian
(04) Matte Dark Patinated Bronze
(06) Matte Aged Aluminum
(08) Matte Cast Brass
(10) Matte Light Patinated Bronze

POWDERCOAT FINISHES

(WH) White
(BK) Black
(AB) Architectural Bronze
(AG) Satin Silver
(AU) Cashmere Gold
(BB) Burnt Bronze

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ATH01B

TRACK HEAD MONOPOINT INSPIRED CTM2 ADJUSTABLE

ACCESSORIES

ALTERNATE MEDIA

- ☐ **HCL-CT2** Honeycomb Louver
- ☐ **CGL-CT2** Clear Glass Lens
- ☐ **SFL-CT2** Soft Focus Lens
- ☐ **FGL-CT2** Frosted Glass Lens
- ☐ **FSFL-CT2** Frosted Soft Focus Lens
- ☐ **FLSL-CT2** Frosted Linear Spread Lens

REPLACEMENT OPTICS

Interchangeable optics accessible by removing baffle.

Static White		Warm Dim	
☐ **RO-70-15-S**	15° optic	☐ **RO-70-15-W**	15° optic
☐ **RO-70-20-S**	20° optic	☐ **RO-70-20-W**	20° optic
☐ **RO-70-25-S**	25° optic	☐ **RO-70-25-W**	25° optic
☐ **RO-70-40-S**	40° optic	☐ **RO-70-40-W**	40° optic
☐ **RO-70-60-S**	60° optic	☐ **RO-70-60-W**	60° optic

PERFORMANCE - 3000K

JA8-2022 INDICATED BY SHADING

LUMEN PACKAGE	WATTAGE	10° OPTIC SOFT FOCUS LENS		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S11A	11	613	55	1143	104	1216	111	1202	109	1124	102	949	86
80S17A	17	828	49	1750	103	1843	108	1823	107	1690	99	1440	85
90S11A	11	528	48	982	89	1045	95	1033	94	966	88	815	74
90S17A	17	714	42	1503	88	1583	91	1566	92	1452	85	1237	73
97S11A	11	456	41	862	78	918	83	907	82	848	77	716	65
97S17A	17	616	36	1320	78	1390	82	1375	81	1275	75	1086	64
90L17AL (2700K-1800K)	17	-	-	1249	73	1244	73	1229	72	1177	69	1046	62
90L17AD (3000K-1800K)	17	-	-	1314	77	1309	77	1293	76	1238	73	1100	65

MEDIA LIGHT LOSS MULTIPLIER

MEDIA	LIGHT LOSS FACTOR
No Lens	1.05
CGL	0.97
SFL	1.00
FGL	0.85
FSFL	0.82
FLSL	0.78
WDL	0.00
HCL	0.75
SFL W/ HCL	0.68
FGL W/ HCL	0.47

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.000
3500K	1.03
4000K	1.08

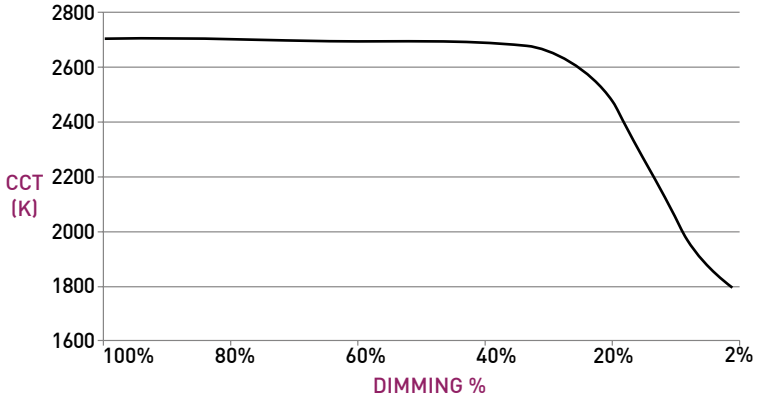
UNIFIED GLARE RATING

10° OPTIC SOFT FOCUS LENS	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS
>19	<13	<10	<10	<10	<16

WARM DIM PERFORMANCE - SOFT FOCUS LENS - 20° OPTIC

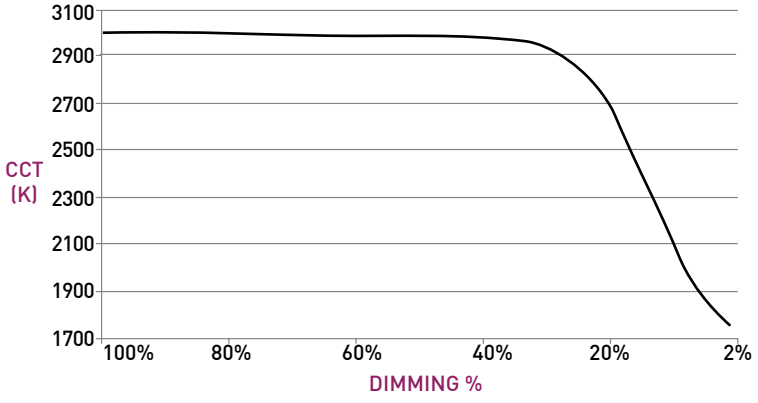
INCANDESCENT PROFILE

90L17AWL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2700	2700	2700	2500	1950	1800
Light Output (Lm)	1244	995	871	622	249	124	25
Power (W)	17	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	73	73	73	73	73	73	73



HALOGEN PROFILE

90L17AWD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000	3000	3000	3000	3000	2150	1800
Light Output (Lm)	1309	1047	916	655	262	131	26
Power (W)	17	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	77	77	77	77	77	77	77



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

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TRACK HEAD MONOPOINT INSPIRED CTM2 ADJUSTABLE

ATH01B

TRACK HEAD

A ADJUSTABILITY
Up to 90° lockable tilt and 370° lockable rotation.

B TRACK ADAPTER
Proprietary asymmetric track adapter; compatible with Lucifer Lighting track only. Available in Black and White finishes to match track systems.

C STEM
Standard length is 1.4", available in even-inch increments from 2"- 8". Stem is not field cuttable. Powdercoat finishes standard, consult factory for Alumina finishes.

D BODY
Power supply integrated into fixture body. Available in powdercoat and Alumina finishes.

E OPTICS
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

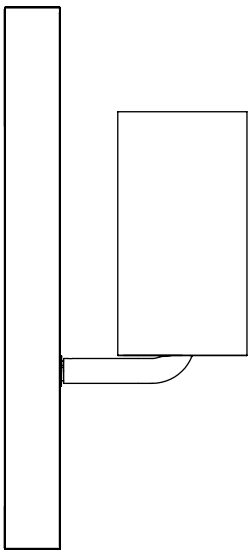
F 10° FIELD REDUCER
Provided with 10° optic, includes honeycomb louver. Reduces field angle by 30%.

G MEDIA
Soft Focus Lens standard. Wet location media sealed in place.

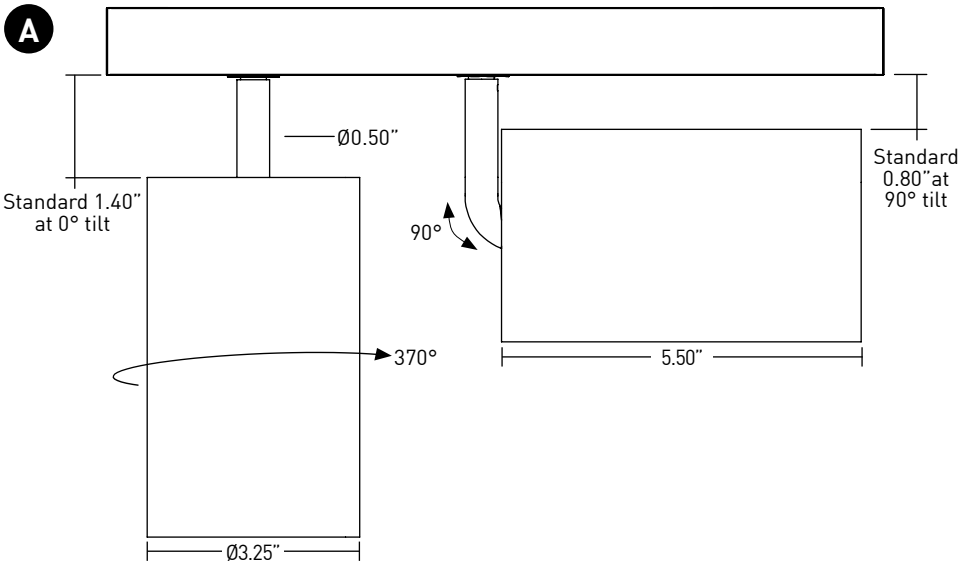
H BAFFLE
Accepts 2 media devices. Baffle minimizes aperture glare and conceals view into fixture. Powdercoat finishes standard, consult factory for Alumina finishes.

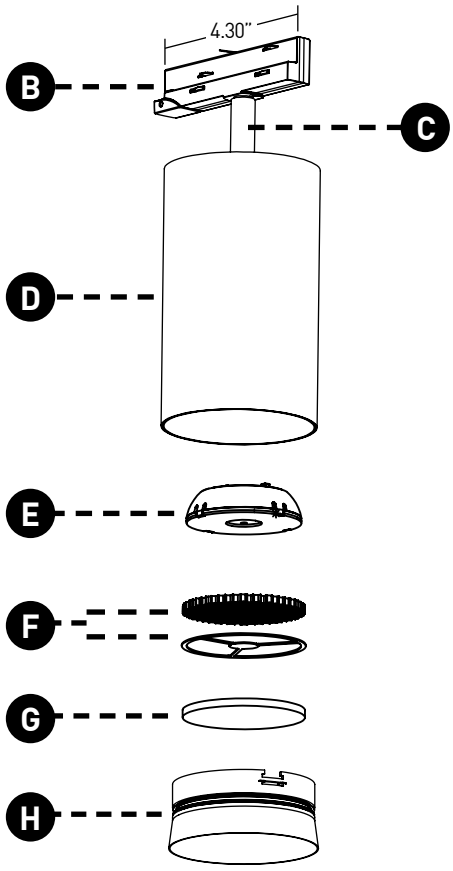
WALL MOUNT

- CTM2 may be installed in vertical track or wall mounted. Must specify fixture as Wall Mount "L".



DIMENSIONS / DRAWINGS





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TRACK HEAD MONOPOINT INSPIRED CTM2 ADJUSTABLE

TECHNICAL

CONSTRUCTION
Track Head: Machined aluminum body; painted finishes are granulated powder coat; Alumina finishes are anodized aluminum.

STATIC WHITE LED
2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temperature of 2400K. Average rated lamp life of 50,000 hours.

WARM DIM LED
3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

Power Supply	CE3
Minimum °C	-20 °C
Maximum °C	40 °C
Dimming %	2.0%

MOUNTING
Cylinder track head mounts to recessed, surface or pendant mount track assemblies, specified separately.

LISTING
Listed to UL1574 standard for Dry locations. JA8-2022 Title 24 listed. NEMA 410 compliant

DECLARE
LBC Red List Approved.

LIMITED WARRANTY
Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service for 1-year. LED and power supplies are warranted to operate with 70% of original flux and remain within a range of 3 duv for a period of 5-years. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG
1. 03/16/2023: REMOVED ALL STEM LENGTH OFFERINGS EXCEPT STANDARD 1.4" LENGTH.
2. 05/12/2023: ADDED LBC RED LIST APPROVED.
3. 08/08/2023: ADDED NEW LED AND OPTIC SYSTEM.
4. 02/08/2024: ADDED 2400K OFFERING.
5. 03/18/2024: UPDATED 10 DEGREE NARROW BEAM TO UTILIZE FIELD REDUCER.
6. 09/19/2024: UPDATED WITH NEW BAFFLE DESIGN.
7. 09/30/2024: ADDED ADDITIONAL STEM LENGTHS UP TO 8" MAX.
8. 11/14/2024: ADDED ADDITIONAL POWDERCOAT FINISHES.
9. 05/07/2025: UPDATED WARM DIM OFFERING.

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AW01

GEN LED acolyte® Architectural Lighting Solutions

Date | Project

Notes

AS2 CHANNEL FIXTURE

Our AS2 Channel Fixture is a slim channel with a 110-degree narrow beam angle ideal for a controlled spread of light. This channel is ideal for compact cove applications, and can also be used in conjunction with our tiltable stands. The AS2 Channel Fixture includes a choice of clear, frosted or milky lens. Custom design a fixture with our AS2 Channel and RibbonLyte products.

- Available for field assembly or factory assembly
- Beam Angle 110°
- Wattage Range from 0.75 W/ft (2.46 W/m) to 8.8 W/ft (28.9 W/m)
- Static White delivered lumen range from 44.1 lm/ft (144.6 lm/m) up to 729 lm/ft (2392.5 lm/m)
- Assembled in USA





HOUSING FINISHES



Silver Standard | **Black*** | **White*** | **Custom RAL***

*Additional fee applies

AVAILABLE LENS FINISHES



Clear Lens
92% Light Transmission

Frosted Lens
85% Light Transmission

Milky Lens
70% Light Transmission

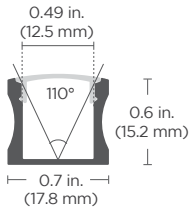
AVAILABLE COLORS & COLOR TEMPERATURES



1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K | VW | WD | Red | Amber | Green | Blue | RGBW | RGBA | RGBWW | RGB

DIMENSIONS

AS2 Channel

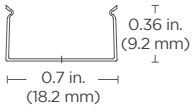


Width: 0.7 in. (17.8 mm)
Height: 0.6 in. (15.2 mm)
Internal Width: 0.49 in. (12.5 mm)

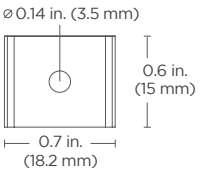
Mounting Clip (Included Accessory)

Material: stainless steel

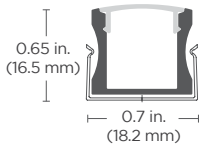
Side View



Top View



Assembled View



Width: 0.6 in. (15 mm)
Length: 0.7 in. (18.2 mm)
Height: 0.36 in. (9.2 mm)

Note:
1. Each section of channel includes **3 mounting clips**.
2. **Magnetic mounting** option available (see page 2)
3. **Exterior channel applications** should be securely attached to the mounting surface with appropriate screws and/or liquid nails. Acolyte strongly recommends field assembly for exterior applications. Use mounting clips for interior applications only.

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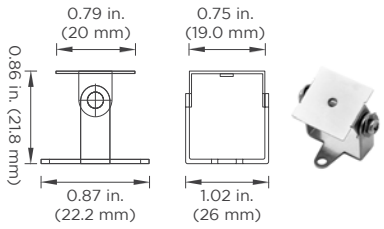
AS2 CHANNEL FIXTURE

SPECIFICATIONS

Beam Angle	110°
Lens Type	Clear Lens, Frosted Lens, Milky Lens
Length	Channel is sold by the foot and cut to your exact desired length. Required amount of mounting clips included.
Operating Voltage	24 V
Dimming	MLV / 0-10 Volt / ELV / DALI / DMX
Operating Temperature	-40 — 158 °F (-40 — 70 °C)
Colors	1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, RGBA, RGBW, RGBWW, VW, Warm Dim (1800K, 2000K, 2200K only available in IP20), Pixel RGB (IP20 only)
CRI	90+ CRI (Static white only)
Lifetime (L70 reported)	50,000 hours
MacAdam ellipse (SDCM)	1-Step Binning (For Static White LEDs only)
Certifications	UL Listed UL 2108 Issued: 2004/02/27 Ed: 1 Rev: 2014/02/24 Low Voltage Lighting Systems CSA C22.2#9.0 Issued: 1996/06/01 Ed: 1 (R2011) General Requirements for Luminaries; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant

ACCESSORIES

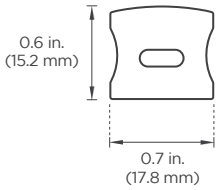
Tiltable Stand (Part #: TILTSTANDST)



Assembled Height with Channel: 1.22 in. (31 mm)

End Caps (Included Accessory)

Material: ABS



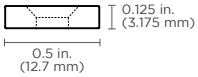
End Cap without hole

End Cap with hole

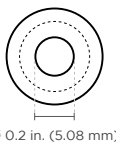
Magnetic Mount (Part #: CHMAG0.5)



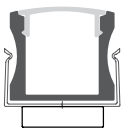
Side View



Top View



Assembled View



Features:
- High-energy neodymium magnets come attached to mounting clips with countersink hex nuts
- Create easy-mount magnetic channels with minimal surface gaps; no tools or drilling necessary
- Magnets rated for 8 lbs. of pull force with static load

Applications:
- Industrial lighting retrofits for troffers and other metal fixtures
- Metal retail shelf lighting
- Temporary light fixture installations

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AS2 CHANNEL FIXTURE

ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL

CHAS2

CHAS2 - AS2 Channel

LENS

C - Clear Lens*
M - Milky Lens
F - Frosted Lens
* Clear lens is the default option if not specified.

HOUSING COLOR

SV - Silver (default)
WH - White
BK - Black
Consult factory for custom colors

STEP 2 Complete RibbonLyte Part Number

CATEGORY

RB

RB - RibbonLyte

CRI

0 - Static Color, Color Changing
90 - 90+ CRI Static White

RIBBON TYPE & IP RATING

SWS220 - Static White Series 2 IP20
SWS265 - Static White Series 2 IP65
SWS268 - Static White Series 2 IP68
SCS220 - Static Color Series 2 IP20
SCS265 - Static Color Series 2 IP65
SCS268 - Static Color Series 2 IP68
LINEA20 - Linea RibbonLyte IP20
RGBWS220 - RGBW Series 2 IP20
RGBWS265 - RGBW Series 2 IP65
RGBWW20 - RGBWW 5-in-1 IP20
WD20 - Warm Dim IP20
WD65 - Warm Dim IP65
VWS220 - VW Series 2 IP20
VWS265 - VW Series 2 IP65
VWS268 - VW Series 2 IP68
XACTA20 - Xacta RibbonLyte IP20
RGBADD - Pixel RGB IP20

NOTE: To ensure waterproofing standards are met, IP65 and IP68 RibbonLyte can NOT be cut in the field.

WATTAGE

0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)
1.0 - 1.0 W/ft (3.3 W/m - Variable White)
1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color, Variable White)
2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)
2.4 - 2.4 W/ft (8 W/m - Static White Linea)
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)
4.3 - 4.3 W/ft (14 W/m - Static White Linea)
4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color, RGBW, RGBWW, RGBA)
4.5 - 4.5 W/ft (14.8 W/m - Static White, Variable White)
5.0 - 5.0 W/ft (16.4 W/m - Static White, Static Color)
5.2 - 5.2 W/ft (17.1 W/m - Warm Dim)
5.3 - 5.3 W/ft (17.5 W/m - Pixel RGB)
5.5 - 5.5 W/ft (18.0 W/m - RGBW, RGBA)
6.0 - 6.0 W/ft (19.7 W/m - Static White, Static Color, Variable White)
6.1 - 6.1 W/ft (20 W/m - Variable White Linea)
8.8 - 8.8 W/ft (28.9 W/m - RGBW, RGBWW)

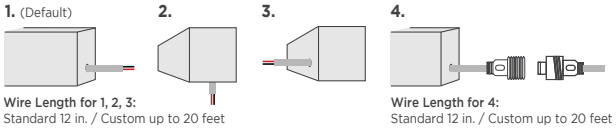
COLOR

18 - 1800K
20 - 2000K
22 - 2200K
24 - 2400K
27 - 2700K
30 - 3000K
35 - 3500K
40 - 4000K
60 - 6000K
R - Red
A - Amber
G - Green
B - Blue
RGB27 - Red, Green, Blue + 2700K
RGB30 - Red, Green, Blue + 3000K
RGB40 - Red, Green, Blue + 4000K
RGB2465 - Red, Green, Blue + 2400K + 6500K
RGBA - Red, Green, Blue + Amber
RGBS - Pixel RGB (SPI)
VW - Variable White
2920 - Warm Dim 2900K-2000K (IP20)
2721 - Warm Dim 2700K - 2100K (IP65+IP68)
Z - Undecided**
** For quotes only. Must be chosen before final order.

CONNECTION OPTIONS (See diagrams on the right)

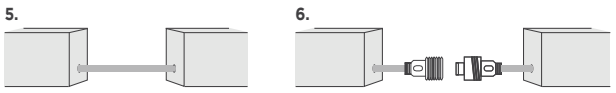
Custom Length (ft.)

1 - End Feed Bare Wire Connection
2 - Back Feed Bare Wire Connection
3 - Side Feed Bare Wire Connection
4 - End Feed with IP67 Male Coupler
5 - Soldered Daisy Chain
6 - Daisy Chain With IP67 Couplers



Wire Length for 1, 2, 3:
Standard 12 in. / Custom up to 20 feet

Wire Length for 4:
Standard 12 in. / Custom up to 20 feet



Wire Length for 5:
Standard 3 in. / Custom up to 3 feet

Wire Length for 6:
Standard 3 in. / Custom up to 18 in.

STEP 3 Complete Assembly Option & Length

ASSEMBLY OPTION

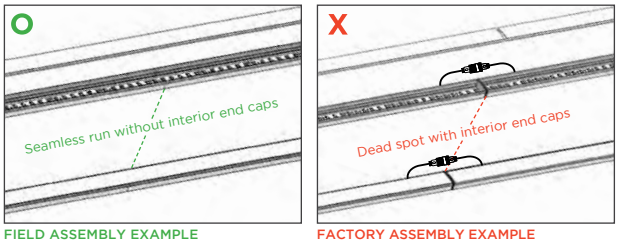
FI - Field Assembly
FA - Factory Assembly* (not recommended for exterior applications)

* Factory assembled runs exceeding 6 ft 6.7 in. (2 m) will be split into multiple daisy chained fixtures.

LENGTH (Standard factory assembled length up to 6 ft 6.7 in. / 2 m)

DO NOT BUTT END CAPS AGAINST EACH OTHER WHEN CREATING LONGER FIXTURES

Acolyte STRONGLY SUGGESTS field assembly (without using interior end caps) for direct-view fixtures of more than 6 ft 6.7 in. (2 m) in length. Field assembly without interior end caps will eliminate gaps or dead spots that can be caused by butting interior end caps against each other.



FIELD ASSEMBLY EXAMPLE

FACTORY ASSEMBLY EXAMPLE

STEP 4 Add Accessories

ACCESSORIES

TILTSTANDST - Tiltable Stand
CHMAG0.5 - Magnetic Mount

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AS2 CHANNEL FIXTURE

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens		Delivered Lumens with Frosted Lens		Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m	lm/ft	lm/m	lm/ft	lm/m		IP20	IP65	IP68
0.75 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	58	190.3	53.6	175.8	44.1	144.6	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2000K	99	68.3	224	63.1	207	52	170.6				
			2200K	109	75.2	246.7	69.5	228	57.2	187.6				
			2400K	113	78	255.8	72	236.2	59.3	194.5				
			2700K	123	84.9	278.5	78.4	257.2	64.6	211.9				
			3000K	123	84.9	278.5	78.4	257.2	64.6	211.9				
			3500K	130	89.7	294.2	82.9	272	68.3	224				
			4000K	134	92.5	303.4	85.4	280.1	70.4	230.9				
			6000K	131	90.4	296.5	83.5	273.9	68.8	225.7				
1.5 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	115.9	380.2	107.1	351.3	88.2	289.3	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2000K	98	135.2	443.5	125	410	102.9	337.5				
			2200K	109	150.4	493.3	139	455.9	114.5	375.6				
			2400K	113	155.9	511.4	144.1		118.7	389.3				
			2700K	123	169.7	556.6	156.8	514.3	129.2	423.8				
			3000K	123	169.7=	556.6	156.8	514.3	129.2	423.8				
			3500K	129	178	583.8	164.5	539.6	135.5	444.4				
			4000K	134	184.9	606.5	170.9	560.6	140.7	461.5				
			6000K	131	180.8	593	167	547.8	137.6	451.3				
2.2 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	83	168	51	155.2	509.1	127.8	419.2	IP20: 42 ft (12.8 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2000K	96	194.3	637.3	179.5	588.8	147.8	484.8				
			2200K	106	214.5	703.6	198.2	650.1	163.2	535.3				
			2400K	111	224.7	737	207.6	680.9	170.9	560.6				
			2700K	120	242.9	796.7	224.4	736	184.8	606.1				
			3000K	122	246.9	809.8	228.1	748.2	187.9	616.3				
			3500K	127	257	843	237.5	779	195.6	641.6				
			4000K	133	269.2	883	248.7	779	204.8	671.7				
			6000K	128	259.1	849.8	239.4	785.2	197.1	646.5				
3.0 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	2400K	109.8	303.1	994.1	280.1	918.6	230.6	756.5	IP20: 36 ft (11 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			2700K	122.9	339.6	1114	313.5	1028.1	258.1	846.7				
			3000K	130	359.1	1177.9	331.4	1087.1	273	895.3				
			3500K	133	367.5	1205.3	339.2	1112.4	279.3	916.1				
			4000K	133	367.5	1205.3	339.2	1112.4	279.3	916.1				
			6000K	127	350.8	1150.5	323.7	1061.8	266.6	874.5				
4.4 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	2400K	109	441.2	1447	407.7	1337.1	335.7	1101.2	28 ft 4 in. (8.64 m)	✓	✓	✓
			2700K	122	494.4	1621.6	456.3	1496.6	375.8	1232.5				
			3000K	129	522.8	1714.7	482.5	1582.5	397.3	1303.2				
			3500K	132	534.9	1754.5	493.7	1619.3	406.6	1333.5				
			4000K	132	534.9	1754.5	493.7	1619.3	406.6	1333.5				
			6000K	126	510.6	1674.8	471.2	1545.7	388.1	1272.9				
5.0 Static White Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	2400K	109.8	505.1	1656.8	466.8	1531	384.4	1260.8	IP20: 33 ft 4 in. (10.1 m) IP65: 32.8 ft (10 m)	✓	✓	
			2700K	122.9	566.1	1856.7	522.4	1713.6	430.2	1411.2				
			3000K	130	598.5	1963.2	552.4	1811.9	454.9	1492.1				
			3500K	133	612.5	2008.9	565.3	1854	465.5	1526.8				
			4000K	133	612.5	2008.9	565.3	1854	465.5	1526.8				
			6000K	127	584.6	1917.6	539.6	1769.7	444.3	1457.4				
6.0 Static White Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	2400K	109	601.6	1973.2	555.9	1823.4	457.8	1501.6	28 ft (8.5 m)	✓	✓	
			2700K	122	674.2	2211.3	622.2	2040.8	512.4	1680.7				
			3000K	129	712.9	2338.2	657.9	2157.9	541.8	1777.1				
			3500K	132	729.4	2392.5	673.2	2208.1	554.4	1818.4				
			4000K	132	729.4 lm/ ft (23	2392.5	673.2	2208.1	554.4	1818.4				
			6000K	126	696.3	2283.8	642.6	2107.7	529.2	1735.8				

GEN LED acolyte® Architectural Lighting Solutions

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens		Delivered Lumens with Frosted Lens		Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m	lm/ft	lm/m	lm/ft	lm/m		IP20	IP65	IP68
0.75 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	41	28	93	26	86	22	70.6	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			Green	175	121	396	112	366	92	301.4				
			Blue	19	13	43	12	40	10	32.7				
			Amber	34	23	77	22	71	18	58.6				
1.5 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	58	190	54	176	44	144.7	IP20: 49 ft (15 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			Green	160	221	724	204	669	168	551.1				
			Blue	18	25	81	23	75	19	62				
			Amber	34	47	154	43	142	36	117.1				
2.2 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	85	279	79	258	65	212.2	IP20: 42 ft (12.8 m) IP65/ IP68: 32.8 ft (10 m)	✓	✓	✓
			Green	145	293	963	271	889	223	732.4				
			Blue	18	36	119	34	110	28	90.9				
			Amber	33	67	219	62	202	51	166.7				
3.0 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	40	110.4	362.1	102	334.6	84	275.52	32.8 ft (10 m)	✓	✓	✓
			Green	127	350.9	1151	323.9	1062.2	266.7	874.7				
			Blue	25	69.1	226.6	63.8	209.1	52.5	172.2				
			Amber	29	80.1	262.8	74	242.6	60.9	199.75				
4.4 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	38	153.8	504.5	142.1	466.2	117	383.89	29 ft (8.8 m)	✓	✓	✓
			Green	117	474.1	1555.1	437.6	1435.3	360.4	1181.98				
			Blue	24	97.3	319	89.8	294.4	73.9	242.4				
			Amber	25	101.3	332.2	93.5	306.7	77	252.56				
5.0 Static Color Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	Red	37	170.2	558.2	157.3	515.8	129.5	424.76	30 ft (9.14 m)	✓	✓	
			Green	116	534.2	1752.1	493	1617	406	1331.68				
			Blue	24	110.5	362.5	102	334.6	84	275.52				
			Amber	26	119.7	392.7	110.5	362.4	91	298.48				
6.0 Static Color Series 2	1.4 in. (35.7 mm)	68 LEDs/ft (224 LEDs/m)	Red	37	204.2	669.8	188.7	618.9	155.4	509.712	28 ft (8.5 m)	✓	✓	
			Green	113	624.4	2048.2	576.3	1890.3	474.6	1556.67				
			Blue	23	127.1	416.9	117.3	384.8	96.6	316.9				
			Amber	24	132.6	435	122.4	401.6	100.8	330.7				
2.4 Static White Linea	1.97 in. (50 mm)	146 LEDs/ft (480 LEDs/m)	2700K	67	148.1	485.8	136.9	448.8	112.7	369.6	21.3 ft (6.5 m)	✓	N/A	N/A
			3000K	71	156.4	514.3	144.5	475.2	119	391.3				
			3500K	83	183.1	601.7	169.2	555.9	139.3	457.8				
			4000K	83	183.1	601.7	169.2	555.9	139.3	457.8				
3.0 Static White Linea	1.97 in. (50 mm)	146 LEDs/ft (480 LEDs/m)	2700K	66	182.2	598	168.3	552.5	138.6	455	21.3 ft (6.5 m)	✓	N/A	N/A
			3000K	73	201.5	661.5	186.2	611.2	153.3	503.3				
			3500K	78	215.3	706.6	198.9	652.8	163.8	537.6				
			4000K	83	229.1	751.6	211.7	694.5	174.3	571.9				
4.3 Static White Linea	1.97 in. (50 mm)	146 LEDs/ft (480 LEDs/m)	2700K	75	297.2	973.4	274.6	899.3	226.1	740.6	24.6 ft (7.5 m)	✓	N/A	N/A
			3000K	78	308.2	1012	284.8	935	234.5	770				
			3500K	86	340.4	1116.9	314.5	1031.9	259	849.8				
			4000K	86	340.4	1116.9	314.5	1031.9	259	849.8				
6.1 Variable White Linea	1.09 in. (27.78 mm)	175 LEDs/ft (576 LEDs/m)	2700K + 6500K	95	533.6	1750.8	493	1617.6	406	1332.1	16.4 ft (5 m)	✓	N/A	N/A

GEN LED acolyte® Architectural Lighting Solutions

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens		Delivered Lumens with Frosted Lens		Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m	lm/ft	lm/m	lm/ft	lm/m		IP20	IP65	IP68
1.5 Static White Xacta	0.2 in. (5 mm)	61 LEDs/ft (200 LEDs/m)	1800K	71	110.2	361.6	101.8	334.1	83.9	275.1	32.74 ft (9.98 m)	✓	n/a	n/a
			2000K	84	130.1	426.8	120.2	394.3	99	324.7				
			2200K	92	142.7	468.3	131.9	432.6	108.6	356.3				
			2400K	96	148.2	486.1	136.9	449.1	112.7	369.8				
			2700K	109	168	551.3	155.3	509.3	127.9	419.4				
			3000K	113	175.3	575	161.9	531.2	133.4	437.5				
			3500K	117	180.7	592.8	166.9	547.7	137.5	451				
			4000K	115	177.1	580.9	163.6	536.7	134.7	442				
			6000K	112	173.5	569.0	160.3	525.7	132	433				
3.0 Static White Xacta	0.2 in. (5 mm)	61 LEDs/ft (200 LEDs/m)	1800K	71	196.3	643.9	181.3	594.9	149.3	489.9	23.62 ft (7.2 m)	✓	n/a	n/a
			2000K	84	231.6	760	214	702.2	176.2	578.3				
			2200K	92	254.2	833.9	234.8	770.5	193.4	634.5				
			2400K	95	263.8	865.6	243.7	799.7	200.7	658.6				
			2700K	108	299.2	981.7	276.4	907	227.7	747				
			3000K	113	312.1	1023.9	288.3	946	237.4	779.1				
			3500K	116	321.7	1055.6	297.2	975.3	244.8	803.2				
			4000K	114	315.3	1034.5	291.3	955.8	239.9	787.1				
			6000K	111	308.9	1013.4	285.4	936.3	235	771.1				
4.5 Static White Xacta	0.2 in. (5 mm)	61 LEDs/ft (200 LEDs/m)	1800K	72	299.6	983	276.8	908.2	228	747.9	19.03 ft (5.8 m)	✓	n/a	n/a
			2000K	85	353.7	1160.3	326.7	1072	269.1	882.8				
			2200K	93	388	1273.1	358.5	1176.2	295.2	968.6				
			2400K	97	402.8	1321.4	372.1	1220.9	306.5	1005.4				
			2700K	110	456.8	1498.7	422	1384.6	347.6	1140.3				
			3000K	114	476.5	1563.1	440.2	1444.2	362.5	1189.3				
			3500K	118	491.2	1611.5	453.8	1488.9	373.7	1226.1				
			4000K	116	481.4	1579.2	444.7	1459.1	366.3	1201.6				
			6000K	113	471.5	1547	435.7	1429.3	358.8	1177.1				
1.5 Variable White Xacta	0.2 in. (5 mm)	122 LEDs/ft (400 LEDs/m)	2400K + 6000K	138	189.1	620.4	174.7	573.2	143.9	472	32.15 ft (9.8 m)	✓	n/a	n/a
3.0 Variable White Xacta	0.2 in. (5 mm)	122 LEDs/ft (400 LEDs/m)	2400K + 6000K	136	371.1	1217.7	342.9	1125.1	282.4	926.5	22.31 ft (6.8 m)	✓	n/a	n/a
4.5 Variable White Xacta	0.2 in. (5 mm)	122 LEDs/ft (400 LEDs/m)	2400K + 6000K	134	524.2	1719.8	484.3	1588.9	398.9	1308.5	19.03 ft (5.8 m)	✓	n/a	n/a
1.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	85	78.2	257	72.3	237	60	200	32.8 ft (10 m)	✓	✓	✓
3.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	80	220.8	725	205	670	168	551.2	32.8 ft (10 m)	✓	✓	✓
6.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	75	415	1,362	382.5	1255	315	1033.5	19 ft 8 in. (6 m)	✓	✓	✓
5.3 Pixel RGB	3.94 in. (100 mm)	18 LEDs/ft (60 LEDs/m)	RGB (all on)	21	114.54	375.36	105.83	346.8	87.15	285.6	24 ft 7.2 in. (7.5 m)	✓	n/a	n/a
4.4 RGBW Series 2	1.97 in. (50 mm)	36 LEDs/ft (120 LEDs/m)	RGBW (all on)	45	188.1	617.2	168.3	552.2	148.5	487.2	19 ft 8 in. (6 m)	✓	N/A	N/A
5.5 RGBW Series 2	1.97 in. (50 mm)	36 LEDs/ft (120 LEDs/m)	RGBW (all on)	59	308.8	1013	275.8	904.9	243.3	798.5	IP65: 16 ft 4 in. (5 m) IP68: 19 ft 7.9 in. (6 m)	N/A	✓	
8.8 RGBW Series 2	1.97 in. (50 mm)	36 LEDs/ft (120 LEDs/m)	RGBW (all on)	61	510.2	1673.8	456.3	1497.1	402.6	1320.9	16 ft 4 in. (5 m)	✓	N/A	N/A
4.4 5-in-1 RGBWW	2.46 in. (62.5 mm)	29 LED/ft (96 LED/m)	RGBWW (all on)	59	241.4	792.1	220.7	724	194.7	638.8	16 ft 4 in (5 m)	✓	N/A	N/A
8.8 5-in-1 RGBWW	2.46 in. (62.5 mm)	29 LED/ft (96 LED/m)	RGBWW (all on)	50	409.2	1342.6	374	1227.1	330	1082.7	11 ft 6 in (3.5 m)	✓	N/A	N/A
5.2 Warm Dim	3.94 in. (100 mm)	36 LEDs/ft (120 LEDs/m)	WARM DIM	55	263.1	863	244.8	803.25	201.6	661.5	16 ft 4 in. (5 m)	✓	✓	

DIODE VISIBILITY CHART (Data below applies to installations with Milky lens only)



No Visible Diode = N

Note: Linea RibbonLyte has no visible diode



With Visible Diode = Y

Static White & Static Color Series 2		Static White & Static Color Xacta	RGBW & RGBA Series 2		5-in-1 RGBWW	5-in-1 RGBWW	Pixel RGB	Variable White Series 2	Warm Dim
0.75/1.5/2.2/3.0/4.4	5.0/6.0	1.5/3.0/4.5	4.4/8.8	5.5	4.4	8.8	5.3	1.0/3.0/6.0	5.2
IP20 / IP65 / IP68	IP20 / IP65	IP20	IP20	IP65	IP20	IP20	IP20	IP20 / IP65	IP20 / IP65
N	N	N	N	N	N	N	N	N	N

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

NON-DIMMING ELECTRONIC DRIVERS



30W, 60W, 96W Non-Dimming Electronic Class 2 Drivers

Part No.:
- DRVW2430 (30 W)
- DRVW2460 (60 W)
- DRVW2496 (96 W)

24 VDC
120-277 VAC
IP65, dry/damp locations
UL Listed



240W, 320W Non-Dimming Electronic Drivers

Part No.:
- DRVW24240 (240 W)
- DRVW24320 (320 W)

24 VDC
90-305 VAC
IP65, dry/damp locations
UL Recognized



60W, 96W Non-Dimming Compact Drivers

Part No.:
- DRV2460C (60 W)
- DRV2496C (96 W)

24 VDC
120-277 VAC
IP20, dry locations
UL Class P

0-10V/ELV/MLV 3-IN-1



60W, 96W, 288W 0-10V/ELV/MLV 3-in-1 Dimmable Drivers

Part No.:
- DRVW2460TRI010 (60 W)
- DRVW2496TRI010 (96 W)
- DRVW24288TRI010 (288 W)

24 VDC
120-277 VAC
IP65, dry/damp/wet locations
UL Listed

ELV



60W Dimmable Driver

Part No.:
- DRVW2460ELV

24 VDC
100-130 VAC
Fits in single-gang switch boxes
IP20, dry locations
UL Recognized

0-10V VW/WD



0-10V Dimmable 90W VW/WD Driver

Part No.:
- DRVRFWDVW2490120

24 VDC
100-277 VAC
IP23, dry/damp locations
UL Listed

ATHENA WIRELESS COMPATIBLE



94W Athena Wireless Compatible Drivers

Part No.:
- DRVW2494ATH1CH (1 channel)
- DRVW2494ATH2CH (2 channel)

24 VDC
100-277 VAC
Dry locations
UL Listed

CASAMBI COMPATIBLE DRIVERS



100W & 200W Casambi Compatible 4 Channel Drivers

Part No.:
- DRVW24100CAS4CH (100 W)
- DRVW24200CAS4CH (200 W)

24 VDC
100-277 VAC
IP66, dry/damp/wet locations
UL Listed, CE, RoHS, Bluetooth, CASAMBI

DIMMABLE DALI-2 DRIVERS



96W DIMMABLE DALI-2 DT6 D4I & DALI-2 DT8 D4I DRIVERS

Part No.:
- DRVW2496DALI1CH (1 channel)
- DRVW2496DALI2CH (2 channel)

24-26 VDC
120-277 VAC
IP67, dry/damp/wet locations
UL Listed

DIMMABLE DALI-2 DRIVERS



75W, 150W, 240W DALI-2 Dimmable Drivers

Part No.:
- DRVW2475DALI1CH (75 W, 1 channel)
- DRVW24150DALI1CH (150 W, 1 channel)
- DRVW24240DALI1CH (240 W, 1 channel)
- DRV24150DALI2CH (150 W, 2 channels)
- DRV24150DALI4CH (150 W, 4 channels)

24 VDC
120-277 VAC
IP67, damp/wet locations (1-channel drivers only)
IP20, dry location (2-channel & 4-channel drivers only)
CE, RoHS, SELV

DMX CONTROLLERS, VARIABLE WHITE DIMMER, WARM DIM DIMMER - FOR COLOR CHANGING FIXTURES



GLASS TOUCH WALL CONTROLLERS
Part No.:
- AWCRGBWWBK
- AWCVWBK



1 ZONE WALL CONTROLLER
Part No.: DMXCTRLG



5 ZONE WALL CONTROLLER
Part No.: DMXCTRL



10 ZONE WALL CONTROLLER
Part No.: DMXCTRLD



6 UNIVERSE DMX CONTROLLER
Part No.: DMXCTRLDR6U



VARIABLE WHITE DIMMER
Part No.:
- RFDIMVWWH (White)
- RFDIMVWBK (Black)



WARM DIM DIMMER
Part No.:
- RFDIMWDWH (White)
- RFDIMWDBK (Black)



4 CHANNEL WATERPROOF DMX INTERFACE
Part No.: DMXINFWLCD4



5 CHANNEL DMX DECODER
Part No.: DMXINF5



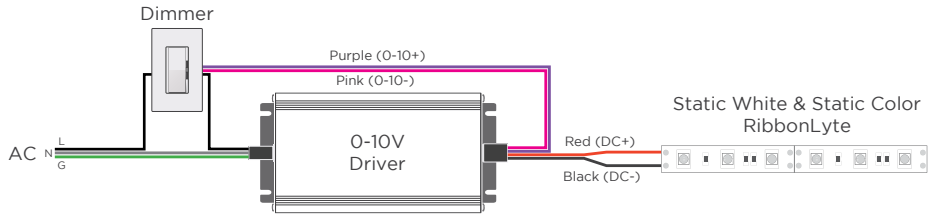
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

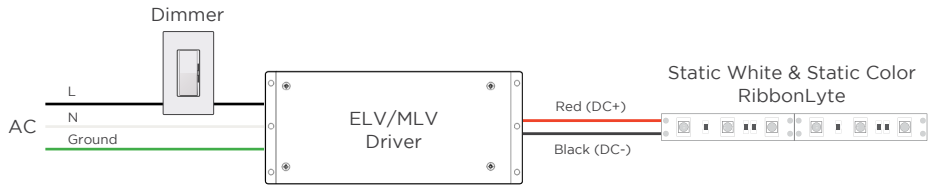
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG / 0.5 mm²	35	10.67	23	7.01	14	4.27	9	2.74	7	2.13	5.75	1.75	4.5	1.37	4.25	1.30
18 AWG / 0.75 mm²	56	17.07	37	11.28	23	7.01	15	4.57	11	3.35	9	2.74	7.5	2.29	7	2.13
16 AWG / 1.5 mm²	90	27.44	60	18.29	37	11.28	24	7.32	18	5.49	15	4.57	12	3.66	11	3.35
14 AWG / 2.5 mm²	142	43.29	95	28.96	59	17.99	38	11.59	28	8.54	23	7.01	19	5.79	17	5.18
12 AWG / 4 mm²	226	68.90	151	46.04	94	28.66	60	18.29	45	13.72	37	11.28	30	9.15	28	8.54
10 AWG / 6 mm²	360	109.76	240	73.17	150	45.73	96	29.27	72	21.95	60	18.29	48	14.63	45	13.72
8 AWG / 10 mm²	574	175.00	381	116.16	239	72.87	153	46.65	115	35.06	95	28.96	76	23.17	71	21.65

WIRING DIAGRAMS - STATIC WHITE / STATIC COLOR / RGBW / RGBA / RGBWW

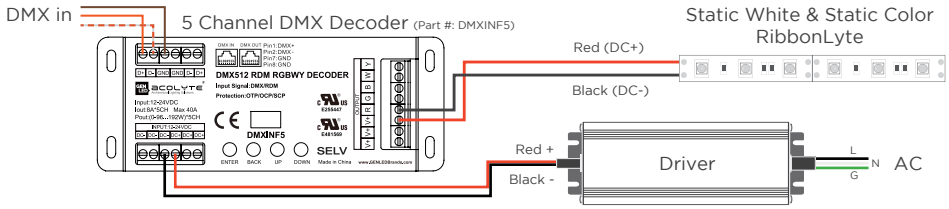
0-10 V



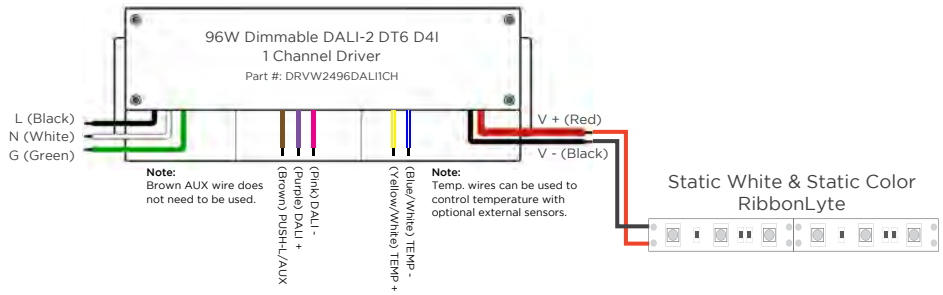
MLV / ELV



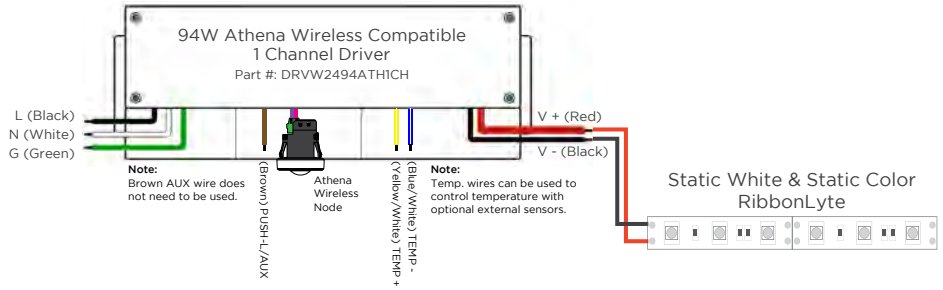
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



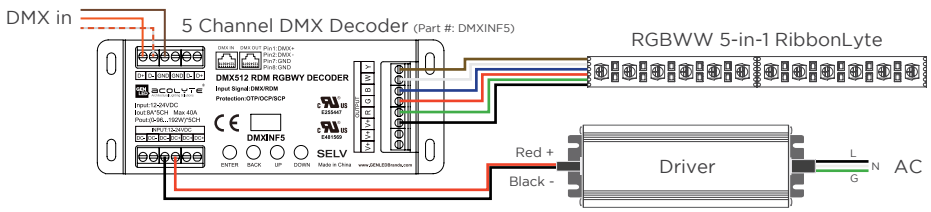
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



STATIC WHITE & STATIC COLOR RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



DMX WITH RGBWW 5-IN-1 RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

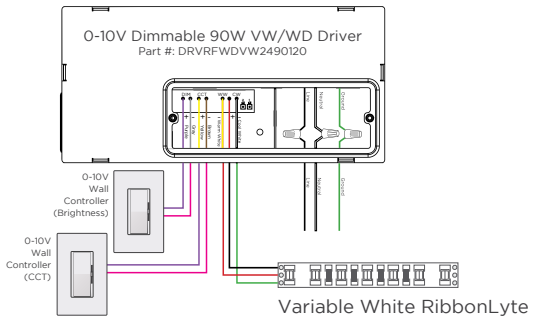
STATIC WHITE + STATIC COLOR
Red Wire (+) Positive
Black Wire (-) Negative

RGBW + RGBA
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

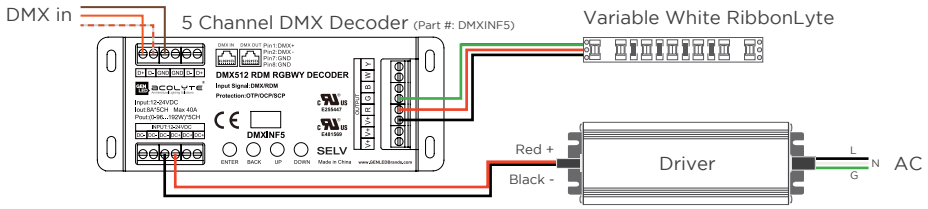
RGBWW
Black (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel 1
Brown Wire (-) goes to White Channel 2

WIRING DIAGRAMS - VARIABLE WHITE

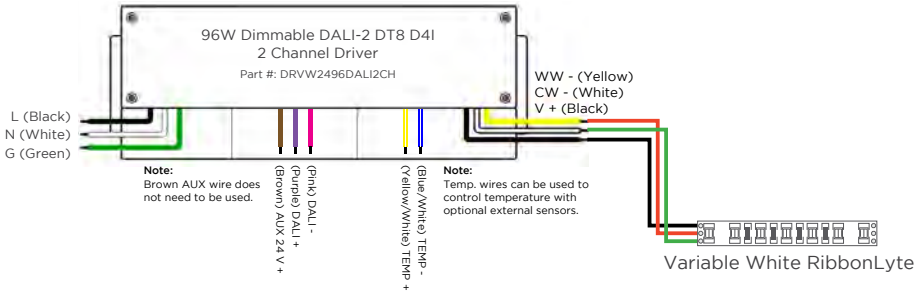
2-CHANNEL VARIABLE WHITE DIMMING



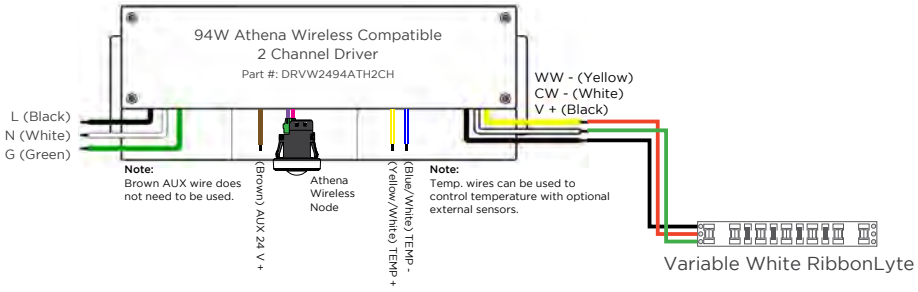
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



WIRE COLORS PER RIBBONLYTE COLOR

VARIABLE WHITE
Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
Green Wire (-) goes to Cool White Channel

REV.24NOV2025

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AW02

Tip Wall Lamp



“Tip Lamp is a simplistic and friendly light with a uniquely architectural silhouette. During the design process, I focused on polishing every single detail to enhance the lamp’s functionality while its molded aluminum body gives it a clean and simple look, highlighting its emphasis on quality. I wanted to reduce the lamp’s design to the very essence of its purpose—creating a design that was easily understood and used in daily life.”

— Jens Fager

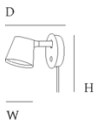
Designed by	Jens Fager
About the Designer	Jens Fager is one of Sweden’s most well-established designers. A graduate from Konstfack University in Stockholm, he has made an international impact with exhibitions in London, Milan, and Stockholm.
Environment	Indoor
Country of Production	China
Preassembled	Yes.
Description	Created from the idea of stripping a design down to its essentials, the Tip Wall Lamp is a simple, functional design that brings careful attention to the subtlety of details. Offering direct as well as ambient light, the lamp's adjustable head feature an opal diffuser and dimmer function that effortlessly alters the volume of light.
Material	Powder coated aluminum. PVC cord. Backplate in injection-molded plastic. Wall bracket in chrome steel. Cord length: 250 cm / 98.4".
Cleaning & Care	Clean with a soft, dry cloth only. Always switch off the electricity supply before cleaning.
Cord Length	250 cm / 98.4"
Light Source Included	Yes.
Dimmable Function	Yes
Additional Information	The power cord of the Tip Wall Lamp can be routed backwards from the lamp through the mounting surface. Please note that the base of the lamp is smaller than a standard junction box and that the lamp is not designed for direct installation on the top of the junction box. When hardwiring, we recommend mounting onto a false wall, onto a headboard or using a trim plate. Please refer to local safety requirements for this type of installation. The lamp head can rotate a total of 100 degrees, with a 50-degree range of motion to each side.

AW02

Tip Wall Lamp

Dimensions

Height:	9,5 cm / 3.7"
Width:	9,5 cm / 3.7"
Depth:	16 cm / 6.3"
Cord Length:	250 cm / 98.4"



Ready-to-Ship

Grey	
Black	
White	

Lamp Rating

Voltage	120V
Frequency	60Hz
IP Rating	IP20
Socket	Non-replaceable LEDs

Light Source Specification

Item	Integrated, non-replaceable LED
Watt	8W
Lumen	220 lm
Lumen Maintenance	35.000h
Kelvin	2.700K
CRI	90
Dimmable	Yes
Risk Group	Except

Tests, Labels & Certifications

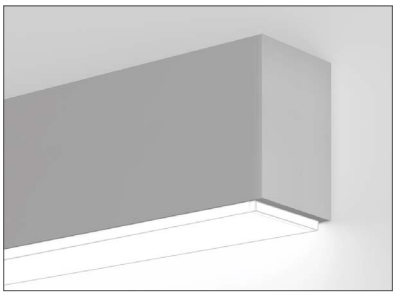
Safety & Regulations cETLus or cULus

IP20

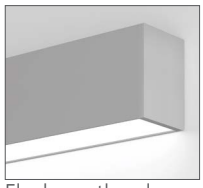
Intertek

Explore Assets **DOWNLOAD SITE**

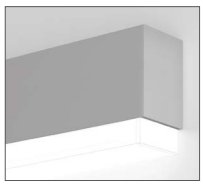
Beam 3 | Wall mount - Direct



Glo Lens - down



Flush spotless lens down



1.25" StepLens - down

Project _____

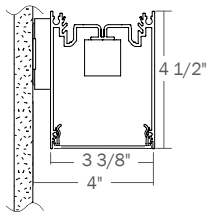
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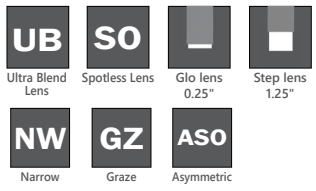
Notes _____

PERFORMANCE PER LINEAR FOOT AT 3500K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1100 lm/ft	8.8 W/ft	125 lm/W	SO
1100 lm/ft	9.7 W/ft	114 lm/W	UB
1100 lm/ft	8.6 W/ft	128 lm/W	0.25G
1100 lm/ft	8.4 W/ft	131 lm/W	1.25M
1000 lm/ft	9.5 W/ft	112 lm/W	NW
1000 lm/ft	9.4 W/ft	113 lm/W	ASO
1000 lm/ft	9.3 W/ft	114 lm/W	GZ

Please consult factory for custom lumen output and wattage.





Declare.

Axitune Tunable White | PoE | bios ILLUMINATED | Control Sensors | c UL us Listed | 5 Year

Ordering Guide

TB3WDLED

PRODUCT ID	NOM. LUM/FT DOWN	CRI	COLOR TEMP. (choose one)	SHIELDING
TB3WDLED BEAM3 - Wall Direct LED	**300** 300 lm/ft - **min** **1000** 1000 lm/ft - **max for GZ, NW, ASO.*** **1100** 1100 lm/ft - **max**	**80** 80 CRI **90** 90 CRI*	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K **B30** 3000 K - BIOS* **B35** 3500 K - BIOS* **B40** 4000 K - BIOS* **TW2750** 2700-5000 K - Tunable White **TW2765** 2700-6500 K - Tunable White **BTW3527** 3500-2700 K - Tunable BIOS **BTW4027** 4000-2700 K - Tunable BIOS	**SO** spotless lens **ASO** asymmetric, flush only **0.25G** 0.25" Glo lens **1.25M** 1.25" StepLens, lum. end cap **UB** Ultra blend lens (Flush only)* **NW** narrow, flush only **GZ** graze, flush only
	Outputs between listed min and max are available. * 1000 lm/ft max. only for GZ, NW and ASO. Consult factory for outputs outside of the listed range. Consult factory for max output with BIOS	* Not available with BIOS.	Consult Axitune technical sheet for more information of color technology. *Consult BIOS guide for more information on BIOS technology	Choose only one of the options above; SurroundLite not available with direct. * Default lens for Tunable white and BIOS. Consult factory for other lens.

LENGTH (FT)	MR (OPTIONAL)	FINISH	VOLTAGE	DRIVER
2 2' **3** 3' **4** 4' **5** 5' **8** 8' **12** 12' **S(L)** System Run	**M16LED(#)** MR16 LED lamp - Line voltage (by other)* **M16LEDB(#)** MR16 LED lamp - Dimmable (provided)**	**AP** aluminum paint **W** white **BLK** black **C** custom **Powder coated BLACK**	**120** 120 V **277** 277 V **347** 347 V **UNV** universal **DC** low voltage*	**DP** dimming (0-10V) 1% **LT(#)** Lutron * **BI** bi-level dimming **O(#)** other ** **DPB(STC)** dimming (0-10V) 1% with BIOS* **DPB(DYN)** Bio-dimming™ 100%-81% with BIOS* **TW(#)** tunable white drivers* **POE(#)** POE drivers*
	*Specify quantity; Available with 120V or 277V only; Line wattage only; Seperate circuits included. **Consult factory; See page 3 for more details; Available with UNV, 120V or 277V only; MR16 constant current for 0-10V & DALI only. Available in 3000K or 4000K. Available in luminaires with Axitune and BIOS but downlight will not be tunable white, color tuning, or BIOS LEDs		* Only available with POE drivers.	* See page 2 to specify system ** Please consult factory; see page 2 Consult factory for other control options.

CIRCUITS	BATTERY (OPTIONAL)	IC CONTROLS (OPT.)	CUSTOM (OPT.)
1 1 circuit **2** 2 circuits **+E(#)** emergency circuit * **+NL(#)** night light circuit * **+GTD(#)** generator transfer device * **+M** MR	**B(#)** battery pack (integral)	**DS(#)** daylight sensor **OS(#)** occupancy sensor **DOS(#)** daylight & occupancy sensor **WC(#)** wireless control dimming	**C** custom
* Specify quantity	Minimum 5ft; Not available with 347V Please consult factory	Specify quantity. Requires 8" blank. See integrated controls guide for more details. Consult factory for Tunable White. Not available with DPB (DYN) driver for BIOS with Dynamic Spectrum.	Please specify

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Beam 3 | Wall mount - Direct

CONSTRUCTION

Housing	Extruded aluminum (0.075'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (20 gauge)
Reflectors	White powder coated sheet steel (22 gauge)
Lenses	Extruded acrylic (0.070'' nominal)
Hanger	Die cast aluminum
Suspension	Sliding aircraft cable along product length

ELECTRICAL

Lutron driver	**LDE1** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black
Other drivers**	**DALI** - Digital Addressable Lighting Interface **DMX** - Digital Multiplex **Xitanium SR** - For wireless sensor
BIOS DPB drivers*	**STC** - BIOS control 0-10V with static spectrum and BIOS SkyBlue enabled from 100% to 1%. **DYN** - BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™, which changes spectral qualities by removing the SkyBlue component when dimming from 100% to 81%, while light output remains relatively constant; bio-dimming reduces CCT to 2700K. Dimming from 80% to 1% will then reduce light output.
Tunable White TW drivers*	**DALIDT6** - DALI Type 6 (Two DALI Addresses) **DALIDT8** - DALI Type 8 (One DALI Address) **DPTW** - two channel 0-10V dimming: one channel for brightness, one channel for CCT. **LDTW** - Lutron DALI Type 8 (One DALI adress) Tunable White series
Power over Ethernet POE drivers* UL2108 certified for integral or remote driver	**MOLEX** **IGOR** **SMARTENGINE** **O** - Other (Consult factory)
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage Flex Whip	120V, 277V, 347V, UNV, DC. Shipped in a separate box for contractors to install

***Choose driver from available options.**

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

WARRANTY

Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

OPTICS



SO Spotless lens
UB Ultra Blend Lens



0.25G Glo lens



1.25M 1.25" StepLens

ULTRA BLEND LENS
Frosted acrylic snap-in micro lens suitable for Tunable White and BIOS applications.

SPOTLESS LENS
Frosted acrylic snap-in micro lens. Used for SO, ASO, NW, and GZ shielding options.

GLO LENS
0.25" frosted acrylic drop lens. Patented design.

STEPLENS
1.25" StepLens, illuminated end cap.

LED SYSTEM

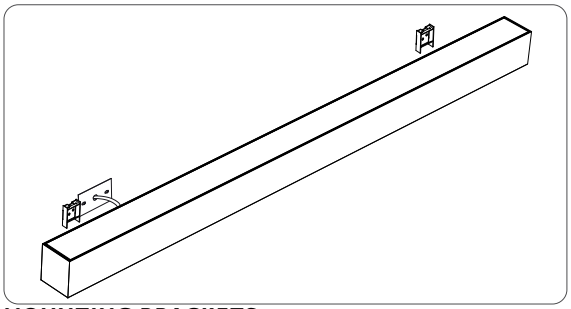
CRI	Minimum 80 or 90 color rendering index.
CRI BIOS	Minimum 80 color rendering index with R9>75 for all CCTs.
CCT Single Color	Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
CCT BIOS	BIOS Static (STC) Choice of 3000K, 3500K and 4000K. BIOS SkyBlue® Dynamic (DYN) Choice of 3000K, 3500K, and 4000K with Bio-Dimming™ BIOS Tunable White (BTW) Choice of 4000-2700K and 3500-2700K; does not use a bio-dimmer, it uses TW drivers, which allow independent control of CCT and intensity; e.g., BTW4027 provides combined SkyBlue + white light at 4000K, SkyBlue is removed at 2700K. Light output can be adjusted for each CCT. Consult BIOS guide for more information on BIOS technology.
CCT Axitune Systems	Consult Axitune technical sheet for more information on color technology.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and damp rated for indoor use only in operating ambient temperatures of 0-40°C (32-104F).

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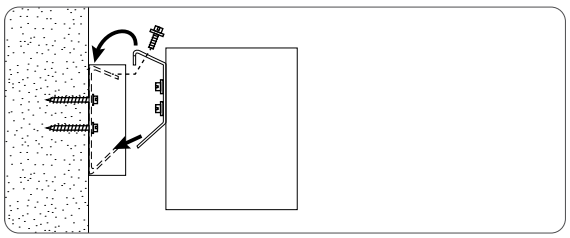
Beam 3 | Wall mount - Direct

MOUNTING OPTIONS

HORIZONTAL MOUNTING DETAILS



MOUNTING BRACKETS



SIDE VIEW

OTHER MOUNTING OPTIONS

BEAM3 SurroundLite is also available with pendant mounted option.

Specification sheets and installation sheets for all mountings for BEAM3 SurroundLite luminaires are available for download at www.axislighting.com

WEIGHT

Wall Direct LED 4 ft	12.3 lbs / 5.0 kg
Wall Direct LED 8 ft	24.6 lbs / 10.1 kg
Wall Direct LED 12 ft	36.9 lbs / 15.1 kg

FINISH

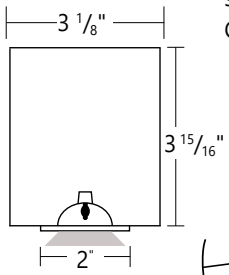
Aluminium paint, powder coated and custom finishes are also available.

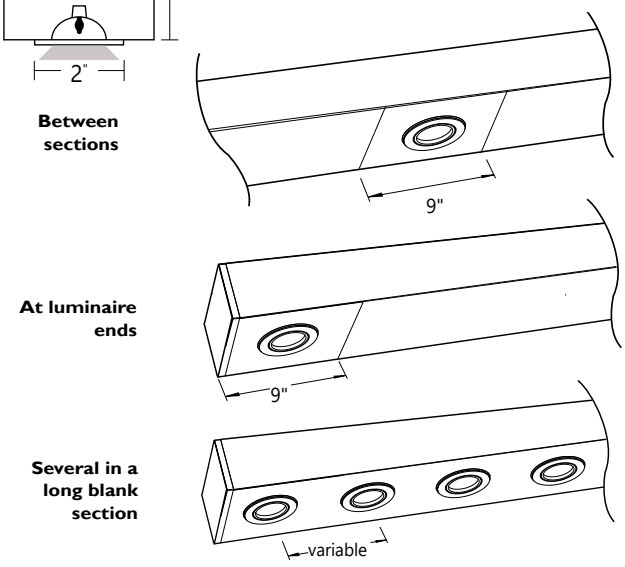
SYSTEM (S#)

BEAM 3 linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs.
Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM 3 that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination of 4', 8' and/or 12' sections to be assembled on site using our joining system. System runs with SurroundLite available in 1' increments only. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

MR16 LED LAMPS

Blank	Extruded aluminum (0.075'' nominal)
MR16 LED	Adjustable LED lamp (provided)
MR16 LEDB	Constant current LED lamp (provided)- Dimmable by control system for 0-10V & DALI only
Quantity	For every 4' section, there may be up to a maximum of 4 x MR16 LED lamps.
Spacing	Each MR16 is placed centered on a blank section 9" in length. Within a given section length, a series of downlights will be spaced evenly on a longer blank section. Custom spacing available on special request.





Base Type	GU 5.3
Beam Angle	40 nominal degrees
Input Watts	6W
Nominal Lumens	300 lumens
Efficacy	50 lumens per watt
Color Rendering Index (CRI)	85
Center Beam Candle Power (CBCP)	584 candelas
Life	25,000 hours at L_{70}
Correlated color temperature (CCT)	3000K, 4000K
Adjustability	15º tilt

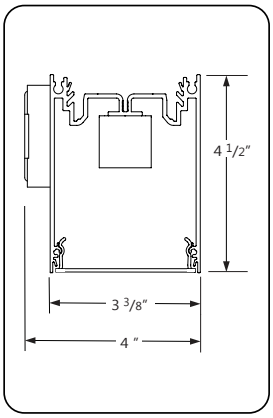
More options are available upon request. Please consult factory.

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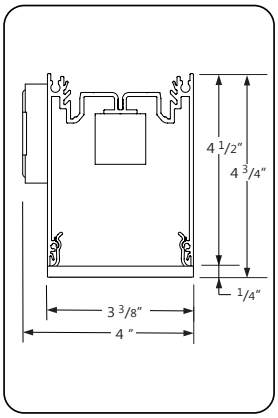
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Beam 3 | Wall mount - Direct

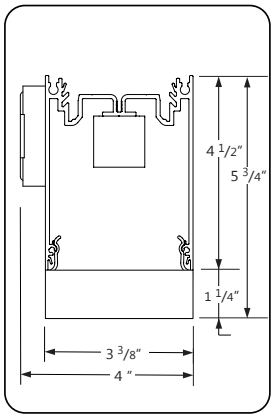
SECTION VIEWS



SO Spotless lens - Direct
ASO Asymm. lens - Direct
NW Narrow lens - Direct
GZ Graze lens - Direct
UB Ultra Blend lens - Direct



0.25G 0.25" Glo lens - Direct



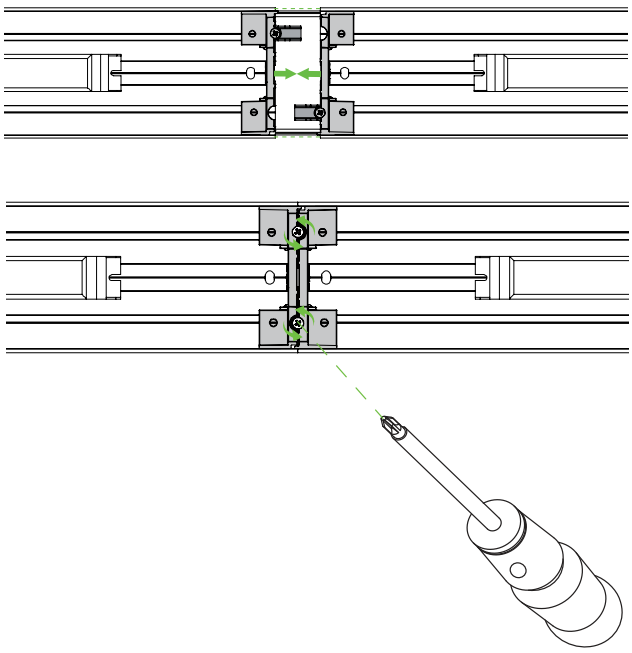
1.25M 1.25" StepLens - Direct

JOINERS

BEAM 3 luminaires feature the joining mechanism shown below. This mechanism joins and aligns multiple luminaires to create long continuous runs of light.

NOTE: Mount each system segment individually.

Do not assemble system prior to mounting



APPROVALS

Certified to UL and CSA standards
Meets NYC requirements
Meets ADA requirements.
Suitable for damp locations.



Declare.

Beam 3
Axis Lighting

Final Assembly: Montreal, Quebec, Canada
Life Expectancy: 7 Year(s)
End of Life Options: Recyclable (87.5%), Landfill (12.5%)

Ingredients:

Recessed Housing: Aluminum 6063; Aluminum hydroxide; Titanium dioxide; Barium sulfate; 1,3,5-Triglycidyl-s-triazinetrione; **Extruded White Beam:** Aluminum 6063; Petroleum distillates; Titanium dioxide; Xylene; 1,2,4-Trimethylbenzene; 2-Butoxyethanol; 2-Pentanone, 4-hydroxy-4-methyl-; Aromatic 100 (Aromatic naphtha, type 1); Ethanol; Ethylbenzene; n-Butanol; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]; Aluminum hydroxide; Toluene; **Lens:** Polymethyl methacrylate; **Reflector:** Aluminum 5052; Polyester Resin; Titanium dioxide; Calcium Carbonate; 1,3,5-Triglycidyl-s-triazinetrione; **End Plate:** Aluminum; Silicon; Copper; Phenol, polymer with formaldehyde; **Bracket:** Steel manufacture, chemicals; (R)-1-chloro-2,3-epoxypropane; Lycopodium (powder); Pitch, gilsonite; **Cover:** Steel; **Small Hardware:** 18-8 Stainless Steel; **Wire 1:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 2:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 3:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 4:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **Wire 5:** Copper; Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene; Ammonium polyphosphate; **3-Way Connector:** Poly[imino(1,6-dioxo-1,6- hexanediyl)imino-1,6-hexanediyl]; Iron; Copper; **Flange Cap:** Polyvinyl chloride

Living Building Challenge Criteria:

I-13 Red List:
- LBC Red List Free
- LBC Red List Approved
- ■ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Compliant
I-14 Responsible Sourcing: Not Applicable

AXS-0001
EXP: 01 OCT 2024
Original Issue Date: 2023

INTERNATIONAL LIVING FUTURE INSTITUTE

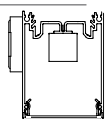
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Beam 3 | Wall mount - Direct

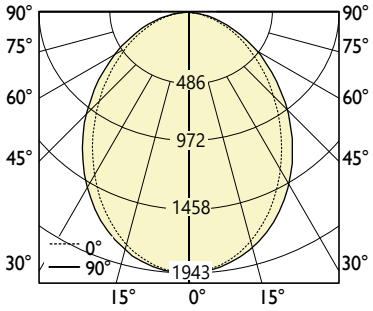
● PHOTOMETRIC DATA

SO Spotless lens

1100 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1942	1942	1942	1942	1942
5	1933	1929	1926	1924	1924
15	1832	1820	1805	1791	1787
25	1637	1619	1583	1550	1541
35	1374	1351	1300	1255	1241
45	1075	1052	1003	951	934
55	777	761	716	672	658
65	501	491	459	427	418
75	263	259	244	227	223
85	80	78	72	66	66
90	9	6	5	4	5

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	182
10-20	507
20-30	726
30-40	810
40-50	768
50-60	634
60-70	448
70-80	250
80-90	74
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	14498	13531	12597
55	12924	11906	10937
65	11296	10353	9428
75	9687	8978	8221
85	8716	7862	7247

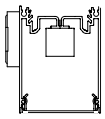
Lumen/ft: 1100 lm/ft
Total Lumens: 4401 lm (for 4ft)
Input Watts: 35.3 W
Efficacy: 125 lm/W

IES FILE: TB3WDLED-1100-80-35-SO-4.IES

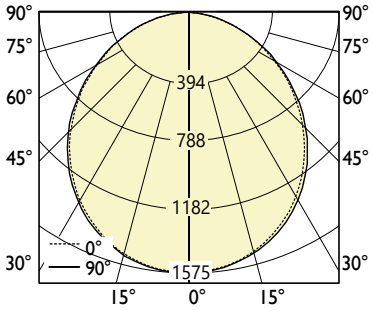
TESTED ACCORDING TO IES LM-79-2008

UB Ultra blend lens

1100 lm/ft



PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1575	1575	1575	1575	1575
5	1569	1569	1568	1569	1569
15	1509	1507	1508	1509	1509
25	1392	1392	1392	1392	1391
35	1229	1228	1228	1224	1222
45	1026	1027	1025	1018	1015
55	795	798	794	786	785
65	546	550	547	542	541
75	301	305	307	305	304
85	95	95	94	91	91
90	8	5	4	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	149
10-20	425
20-30	639
30-40	763
40-50	783
50-60	700
60-70	530
70-80	313
80-90	97
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	13834	13823	13691
55	13224	13200	13042
65	12321	12343	12198
75	11079	11301	11216
85	10433	10286	9998

Lumen/ft: 1100 lm/ft
Total Lumens: 4399 lm (for 4ft)
Input Watts: 38.7 W
Efficacy: 114 lm/W

IES FILE: TB3WDLED-1100-80-35-UB-4.IES

TESTED ACCORDING TO IES LM-79-2008

ⓘ All IES files are available for download at: www.axislighting.com

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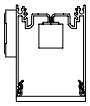
axis lighting.com

Beam 3 | Wall mount - Direct

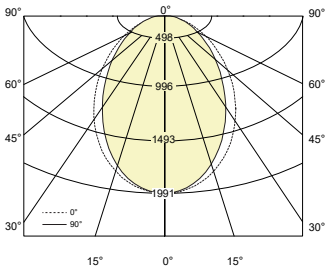
PHOTOMETRIC DATA

0.25G 0.25" Glo lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4400 lm (for 4ft)
Input Watts: 34.4 W
Efficacy: 128 lm/W
IES FILE: TB3WLED-1100-80-35-0.25G-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1991	1991	1991	1991	1991
5	1978	1976	1975	1974	1975
15	1873	1862	1844	1825	1824
25	1666	1647	1603	1556	1547
35	1384	1357	1291	1228	1211
45	1066	1037	971	906	890
55	753	732	680	631	619
65	473	462	436	408	403
75	243	246	244	239	241
85	73	85	100	109	115
90	11	27	46	59	65

ZONAL LUMENS

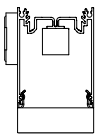
	Lumens
Zone	
0	
0-10	187
10-20	517
20-30	734
30-40	806
40-50	750
50-60	611
60-70	433
70-80	256
80-90	106
90	

LUMINANCE DATA (cd/m²)

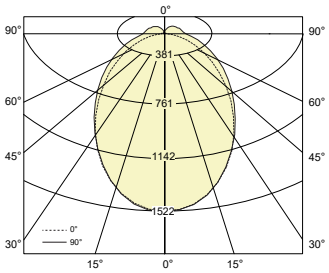
	Horizontal Angles		
Vertical Angle	0	45	90
45	14372	13099	11995
55	12519	11312	10286
65	10664	9831	9091
75	8958	8992	8868
85	7937	10890	12567

1.25M 1.25" Step lens

1100 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1100 lm/ft
Total Lumens: 4400 lm (for 4ft)
Input Watts: 33.7 W
Efficacy: 131 lm/W
IES FILE: TB3WLED-1100-80-35-1.25M-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1522	1522	1522	1522	1522
10	1482	1479	1485	1486	1487
30	1161	1174	1174	1164	1160
50	694	727	751	760	761
70	286	337	388	419	427
90	25	83	145	180	187
110	17	58	98	129	140
130	9	40	73	94	103
150	6	24	44	56	62
170	2	8	15	19	21
180	0	0	0	0	0

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	143
10-20	402
20-30	580
30-40	659
40-50	647
50-60	569
60-70	449
70-80	314
80-90	191
90	
90-100	127
100-110	107
110-120	82
120-130	62
130-140	0
140-150	0
150-160	0
160-170	0
170-180	70
180	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	10929	11514	11535
55	9680	10835	11159
65	8474	10621	11382
75	7563	11618	13117
85	8110	21088	25819

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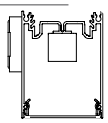
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Beam 3 | Wall mount - Direct

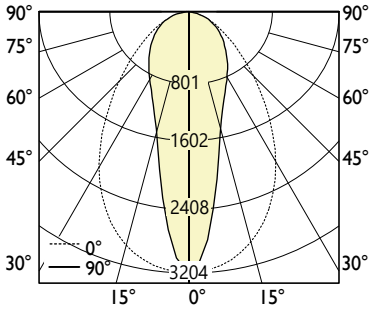
PHOTOMETRIC DATA

NW Narrow lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 4257 lm (for 4ft)
Input Watts: 38 W
Efficacy: 112 lm/W

IES FILE: TB3WDLED-1000-80-35-NW-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3204	3204	3204	3204	3204
5	3180	3125	2988	2870	2777
15	2952	2577	2046	1760	1649
25	2484	1924	1402	1224	1173
35	1853	1396	1044	958	933
45	1241	994	787	745	737
55	766	674	561	556	559
65	436	410	359	370	377
75	201	194	175	184	188
85	38	37	34	34	29
90	2	1	1	1	2

ZONAL LUMENS

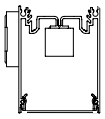
Zone	Lumens
0	
0-10	272
10-20	610
20-30	736
30-40	753
40-50	683
50-60	555
60-70	391
70-80	207
80-90	50
90	

LUMINANCE DATA (cd/m²)

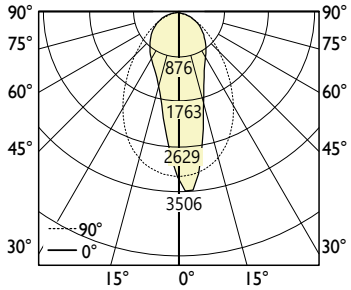
	Horizontal Angles		
Vertical Angle	0	45	90
45	17972	11392	10668
55	13677	10021	9983
65	10567	8693	9148
75	7944	6928	7427
85	4473	3964	3353

GZ Graze lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4246 lm/4ft)
Input Watts: 37.28 W
Efficacy: 114 lm/W

IES FILE: TB3WDLED-1000-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	3204	3204	3204	3204	3204
5	3173	3405	3506	3502	3474
15	2964	3194	2574	2128	1976
25	2503	2380	1592	1315	1250
35	1857	1633	1109	994	969
45	1219	1095	814	771	764
55	746	707	576	572	576
65	425	421	367	381	392
75	197	200	182	195	203
85	39	41	40	44	42
90	2	3	2	1	1

ZONAL LUMENS

Zone	Lumens
0	
0-10	279
10-20	626
20-30	744
30-40	750
40-50	673
50-60	542
60-70	380
70-80	202
80-90	49
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	17701	11826	11087
55	13348	10311	10313
65	10329	8924	9521
75	7828	7223	8067
85	4562	4741	4954

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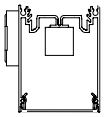
axis lighting.com

Beam 3 | Wall mount - Direct

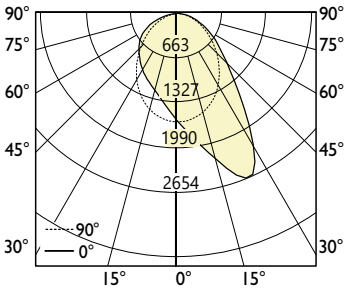
PHOTOMETRIC DATA

ASO Asymmetric lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft down: 1000 lm/ft
Total Lumens: 4259 lm/4ft)
Input Watts: 37.73 W
Efficacy: 113 lm/W
IES FILE: TB3WLED-1000-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1699	1699	1699	1699	1699
5	1683	1765	1844	1897	1936
15	1583	1847	2127	2340	2439
25	1391	1839	2351	2578	2553
35	1139	1705	2108	1790	1597
45	868	1384	1406	1068	961
55	609	943	850	663	610
65	381	547	480	389	356
75	186	246	215	177	159
85	37	47	41	34	28
90	2	1	1	1	2

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	162
10-20	481
20-30	751
30-40	829
40-50	748
50-60	599
60-70	416
70-80	219
80-90	55
90	

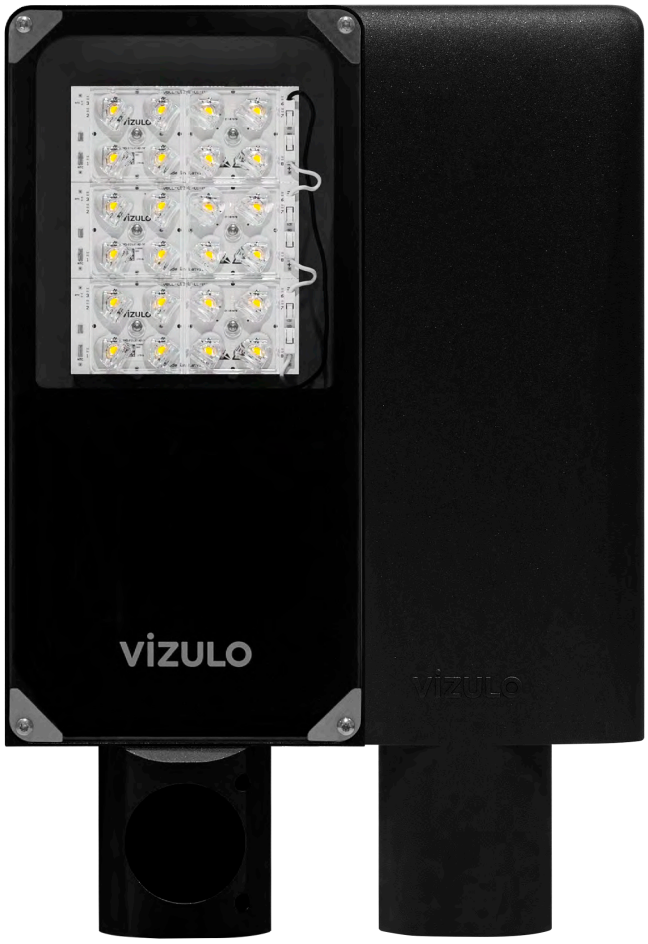
LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	12569	20360	13917
55	10877	15171	10892
65	9224	11630	8628
75	7348	8494	6301
85	4347	4825	3330

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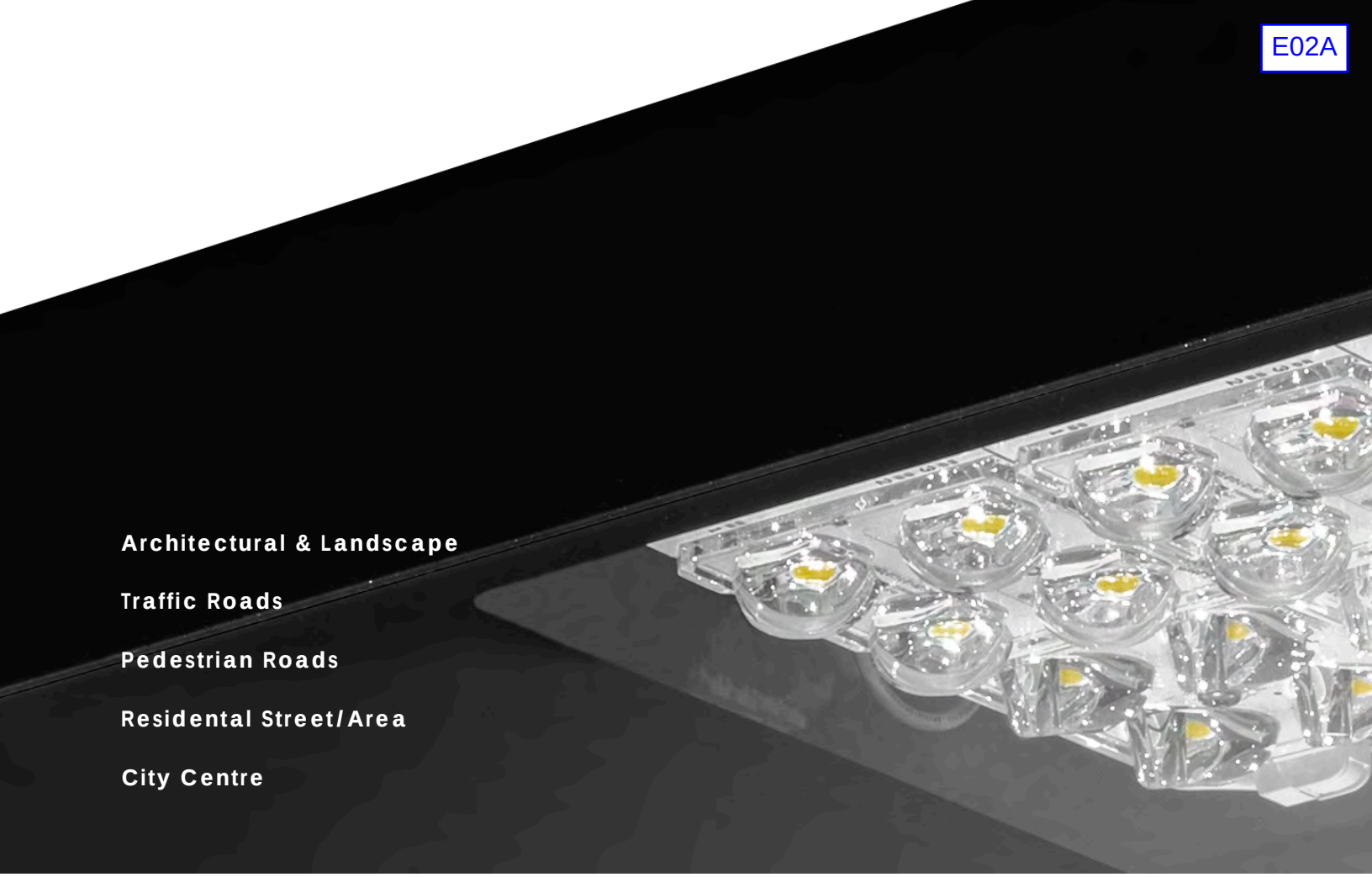
E02A

VIZULO



Colibri

MIDI



Architectural & Landscape

Traffic Roads

Pedestrian Roads

Residental Street/Area

City Centre

Ventilation cable gland
Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity

Glass
Flat glass. Glass is fixed to die-cast aluminium frame with metal clips and can easily be replaced

LED module
High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time.
Available color temperature: 2700 K, 3000 K, 4000 K
(1800 K, 2200 K, 3500 K, 5000 K, 5700 K, 6500 K available on customer request)

Sockets
Zhaga and NEMA sockets compatible

Protection
IP66 for the complete luminaire

Module temperature control
The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB
(function available on customer request)

Body
Die-cast aluminium

Lighting protection
Built-in surge protection starting from 3 kV till 10 kV

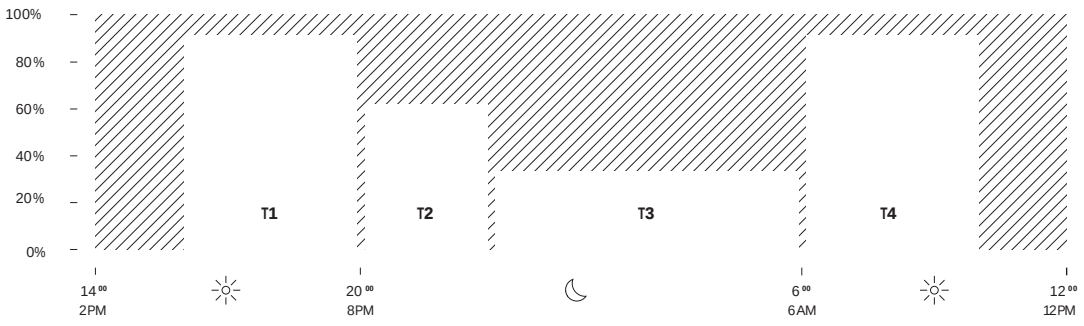
Light regulation
COLIBRI MIDI drivers offer integrated midnight dimming and network-controlled 1-10 V and DALI protocols

Impact resistance
IK09 (Vandal protected) for the complete luminaire



Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.



Colibri midi



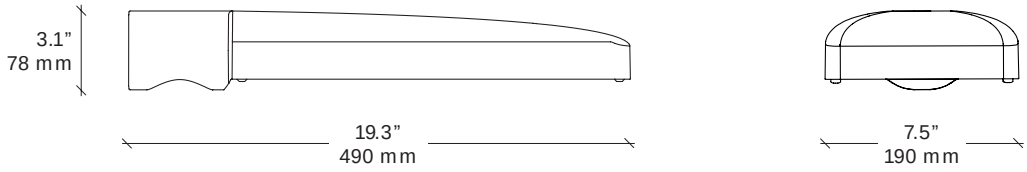


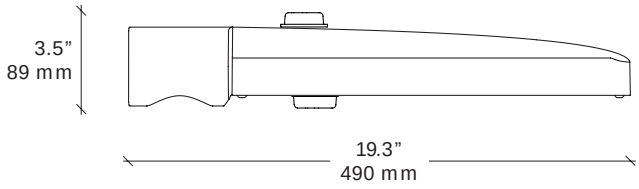


Note! Glass with black print on request!
(standard - gray print glass)

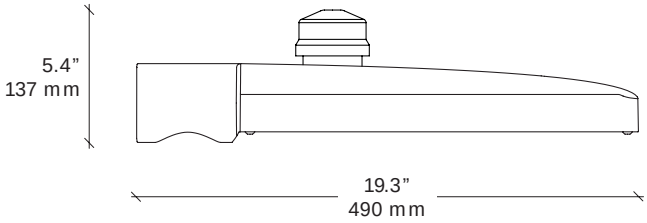
RAL7035 RAL9006 DB703 RAL9005

Other colors
available on request

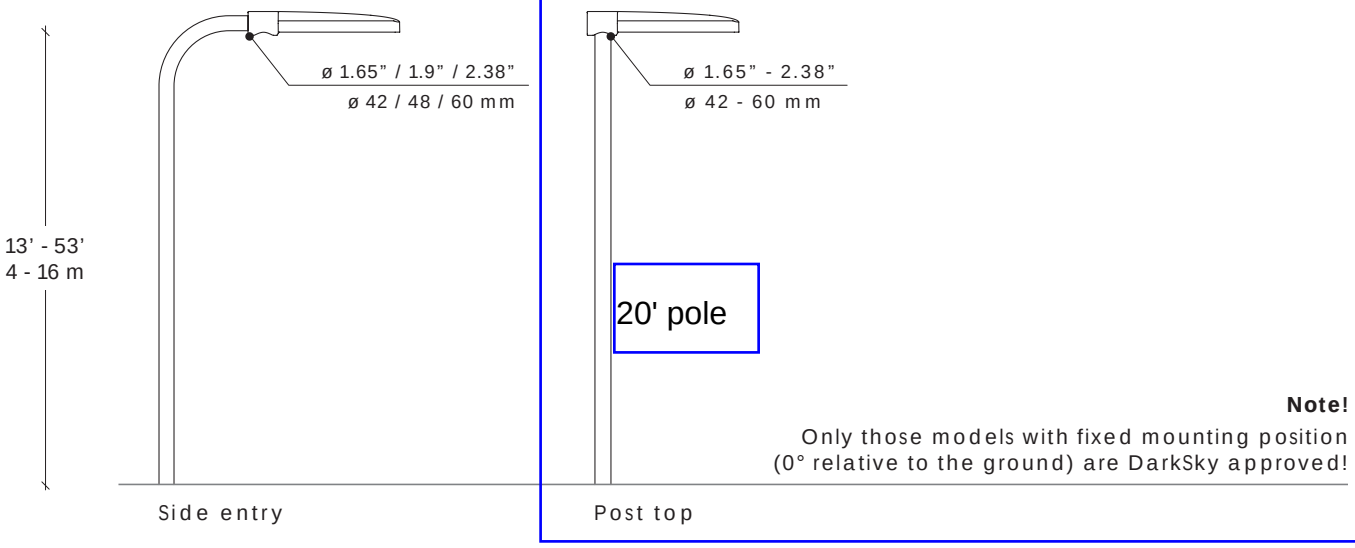




Dimensions with **2 Zhaga connectors**



Dimensions with **NEMA socket**



Features

↘ WHITE OR BLACK PCB - PERFORMANCE MEETS AESTHETICS

Choose **white PCB** for brighter illumination,
or the **black PCB** for a sleek, modern look.

While white PCB offer **~11%** more lumens, black PCB deliver just **2.5%** less light on the road - an impressive result given their design appeal.

Note! Black PCB available on request



Technical information

V	220 - 240
Hz	50 - 60
W	5 - 87 (1
lm	446 - 13 100 (2
lm/W	90 - 164
K	2700 / 3000 / 4000 (3
°F	-40 up to +122 (4
°C	-40 up to +50 (4
CRI	>70 / >80 / >90 (3

Body:	Die-cast aluminium
Dimming:	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	Eco 100 000 h (L90B10) at Ta = 77 °F / 25 °C* Standard 100 000 h (L98B10) at Ta = 77 °F / 25 °C* High density 100 000 h (L98B10) at Ta = 77°F / 25°C*
Warranty:	5 years
Installation:	Pre-wired cable 11.8” / 30 cm (5
Spigot:	1.65” / 1.9” / 2.38” / 3” (6 42 mm / 48 mm / 60 mm / 76 mm (6
Socket:	NEMA Top / Zhaga Top and Bottom
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	4 / 6 / 10 kV (7
Corrosion protection:	Up to C5
Neto weight:	Up to 9.3 lbs / 4.2 kg
Max. wind load area, SCd:	0.39 ft² / 0.036 m²

1) Colibri Midi with Zhaga max power 85 W
2) Lumen output indicated at CRI > 70
3) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
   Note! *Only fixtures with CCT of 3000 K or lower are DarkSky approved!*
4) Operating temperature differs depending on chosen output wattage
5) Other lengths available on request
6) Achievable with pole adapter from luminaire with ø 3” / 76 mm console to pole with ø 1.57” - 2.38” / 40 - 60 mm (on request)
7) 10 kV (L-N; L/N-PE) surge protection device available on request
8) Coming soon
9) EPD registration number: S-P-05886 (link to page)

* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Standard modules

* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			12			16			24	
Nominal current, mA	140	540	700	280	500	660	280	500	760	260	470	700
Power, W	5	15	19	12	20	26	15	25	39	20	35	52
Luminous Flux, lm	520	1840	2300	1530	2590	3300	2160	3560	5300	3060	5240	7400
Efficacy, lm/W	104	123	121	128	130	127	144	142	136	153	150	142
Power factor, PF		Up to 0.94			Up to 0.97			Up to 0.98			Up to 0.97	

Luminaire efficacy	2700 K	5 - 52 W	446 - 6350 lm	90 - 131 lm/W
	3000 K	5 - 52 W	490 - 7000 lm	98 - 144 lm/W
	5000 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W

High density modules

* Data for V01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		16			32			48	
Nominal current, mA	280	480	770	270	510	700	270	350	600
Power, W	15	25	39	27	50	68	39	50	87
Luminous Flux, lm	2010	3310	4920	4000	7111	9280	6400	8035	13100
Efficacy, lm/W	134	132	126	148	142	136	164	161	151
Power factor, PF		Up to 0.98			Up to 0.97			Up to 0.98	

Luminaire efficacy	2700 K	15 - 87 W	1730 - 11210 lm	108 - 140 lm/W
	3000 K	15 - 87 W	1900 - 12320 lm	119 - 155 lm/W
	5000 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W
	5700 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W

Eco modules

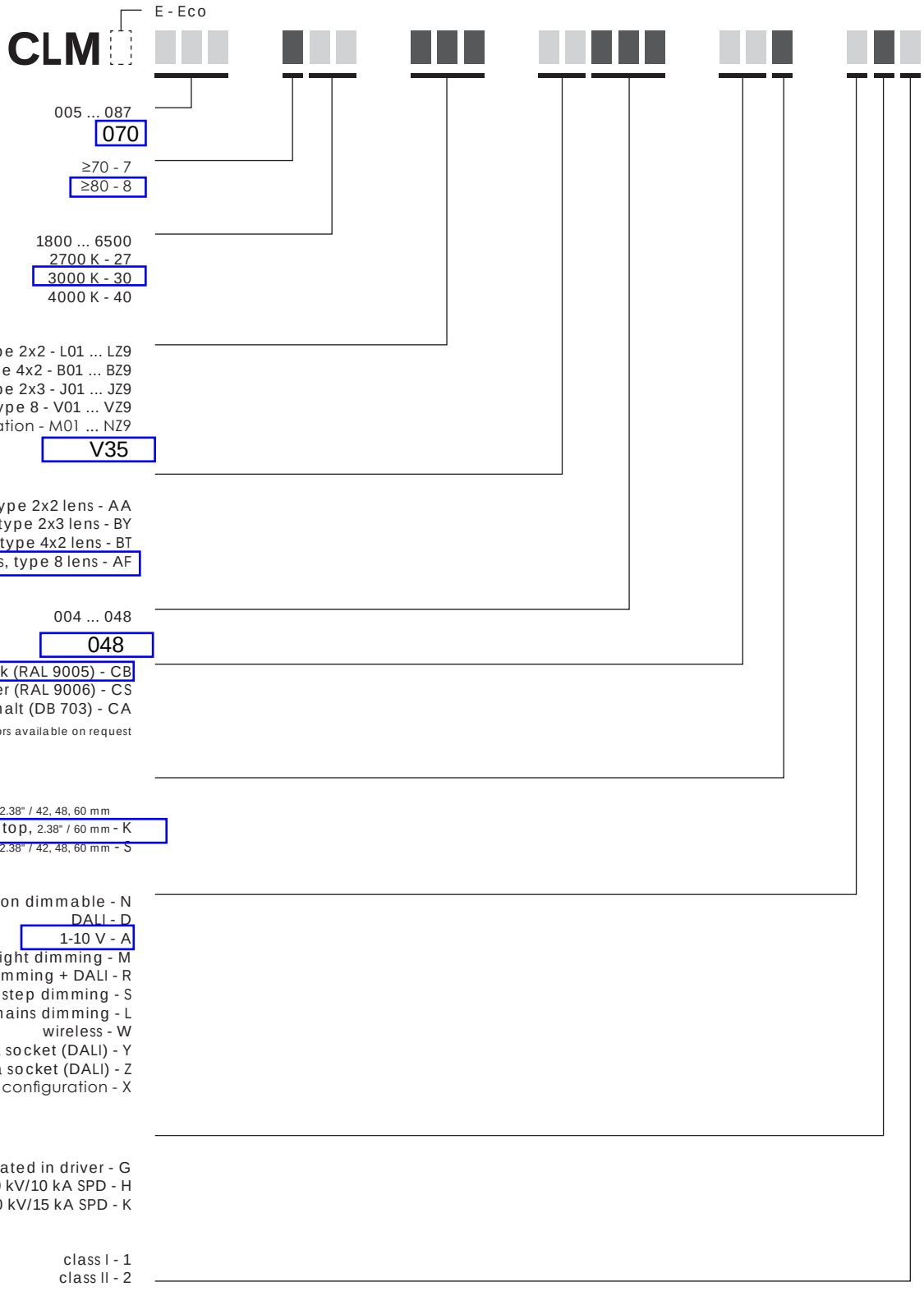
* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			12			16	
Nominal current, mA	280	470	700	280	450	700	280	490	710
Power, W	15	25	38	22	35	55	28	50	74
Luminous Flux, lm	1960	3120	4340	2980	4470	6300	4100	6460	8810
Efficacy, lm/W	131	125	114	135	128	115	146	129	119
Power factor, PF		Up to 0.98			Up to 0.98			Up to 0.97	

Luminaire efficacy	2700 K	5 - 74 W	1833 - 8255 lm	107 - 137 lm/W
	3000 K	5 - 74 W	1960 - 8600 lm	114 - 142 lm/W
	5000 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W
	5700 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W

Model name principles

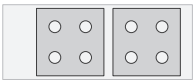
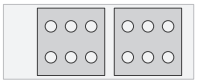
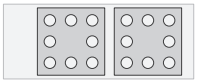
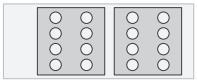


EXAMPLE CLM 020 730 L17 A008 CAK NG1

*** CUSTOM CONFIGURATION EXAMPLE**

NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.
Custom configuration information is available in order confirmation.

LED modules

Type	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
AA	3	4	8	24	2	Standard Eco	type 2x2 L01...LZ9	
BY	3	6	12	36	6	Eco	type 2x3 J01...JZ9	
AF	3	8	16	48	2	Standard	type 8 V01...VZ9	
BT	3	8	16	48	8	Standard Eco	type 4x2 B01...BZ9	

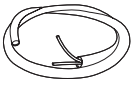
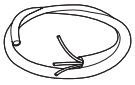
Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count Class I	Input cable core count Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 [1]	4 [1]
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 [2]	2 [2]
Zhaga	Midnight dimming	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 [3]	2 / 4 [3]
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 [1]	4 [1]
NEMA	Mains dimming	X	3	2

[1] 1 core unused
[2] DALI wires used only for internal connection between driver and Zhaga socket(s)
[3] +2 cores for external DALI connection

Cable order information*

* Custom cable lengths available on request

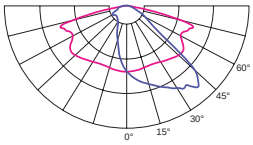


Cable length [ft]	Cable length [m]	2 x 16 AWG/ 1.5 mm²	3 x 16 AWG/ 1.5 mm²	4 x 16 AWG/ 1.5 mm²	5 x 16 AWG/ 1.5 mm²
1.6	0.5	*Art. 70100184*	*Art. 70100179*	*Art. 70100402*	*Art. 70100409*
3.3	1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100220*
4.9	1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70100410*
6.6	2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70100262*
8.2	2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70100411*
9.8	3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70100217*
13.1	4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70100189*
16.4	5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70100185*
19.7	6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000370*
23.0	7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70100201*
26.3	8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70100212*
29.5	9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70100192*
32.8	10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000387*
36.1	11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000388*
39.4	12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70100200*
42.7	13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100412*
45.9	14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100165*
49.2	15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70100183*
65.6	20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70100413*
82.0	25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70100414*

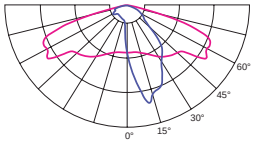
Optics

Standard modules

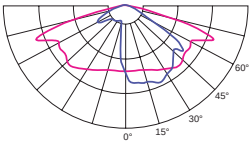
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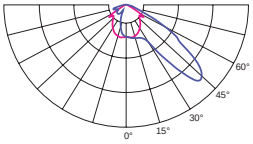
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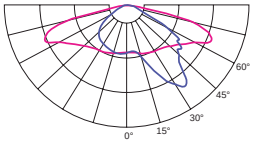
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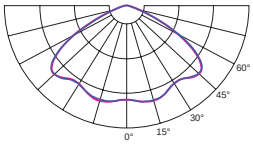
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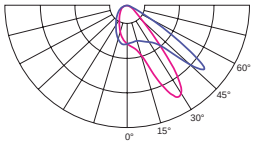
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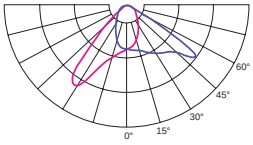
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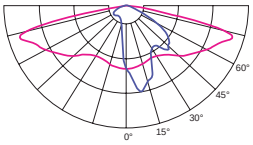
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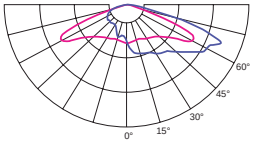
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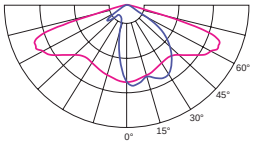
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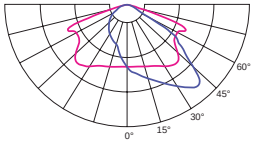
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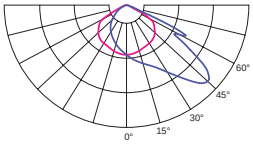
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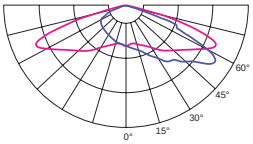
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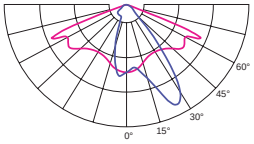
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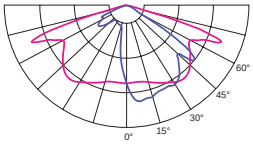
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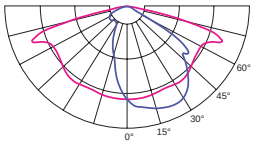
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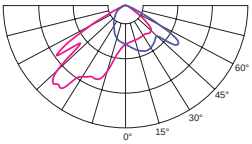
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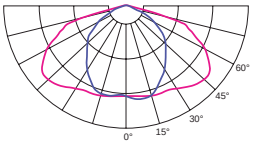
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L84

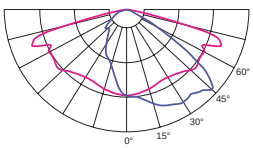


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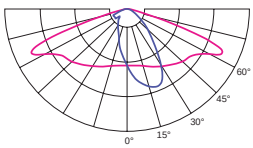


High density modules

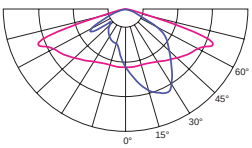
V01



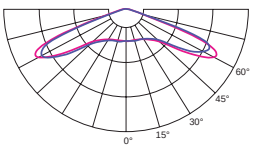
V04



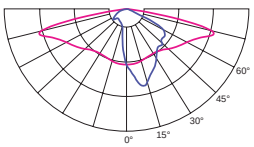
V05



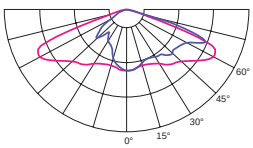
V20



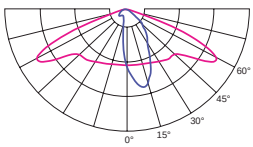
V22



V35



V57





Pedestrian crossing optics

IP66 IK09 RoHS PLUS (8 DARKSKY APPROVED EPD (9

V	220 - 240
Hz	50 - 60
W	5 - 52 (1
	5 - 74 (2
lm	Up to 7 400 (1
	Up to 8 810 (2
lm/W	90 - 153 (1
	107 - 147 (2
K	2700 / 3000 / 4000 (3
°F	-40 up to +122 (4
°C	-40 up to +50 (4
CRI	>70 / >80 / >90 (3

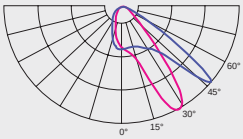
Body:	Die-cast aluminium
Dimming:	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	Eco 100 000 h (L90B10) at Ta = 77 °F / 25 °C* Standard 100 000 h (L98B10) at Ta = 77 °F / 25 °C*
Warranty:	5 years
Installation:	Pre-wired cable 11.8" / 30 cm (5
Spigot:	1.65" / 1.9" / 2.38" / 3" (6 42 mm / 48 mm / 60 mm / 76 mm (6
Socket:	NEMA Top / Zhaga Top and Bottom
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	4 / 6 / 10 kV (7
Corrosion protection:	Up to C5
Neto weight:	Up to 9.3 lbs / 4.2 kg
Max. wind load area, SCd:	0.39 ft^2 / 0.036 m^2

1) Standard modules, lumen output indicated at CRI > 70
2) Eco modules, lumen output indicated at CRI > 70
3) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
   Note! *Only fixtures with CCT of 3000 K or lower are DarkSky approved!*
4) Operating temperature differs depending on chosen output wattage
5) Other lengths available on request
6) Achievable with pole adapter from luminaire with ø 3" / 76 mm console to pole with ø 1.57" - 2.38" / 40 - 60 mm (on request)
7) 10 kV (L-N; L/N-PE) surge protection device available on request
8) Coming soon
9) EPD registration number: S-P-05886 (link to page)

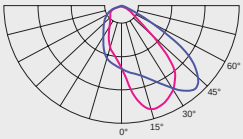
* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Right side traffic

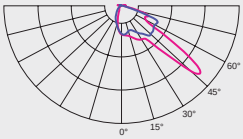
L11



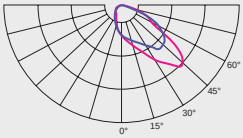
L11
ECO

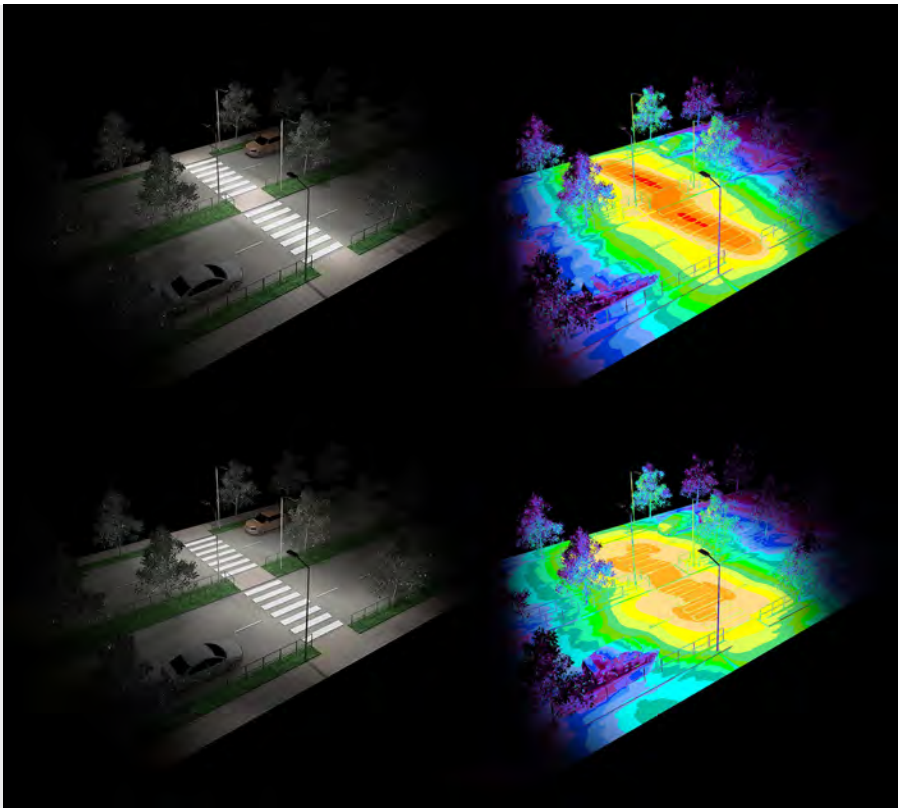


L36



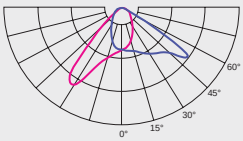
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ECO



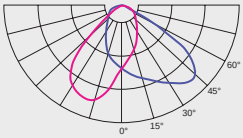


Left side traffic

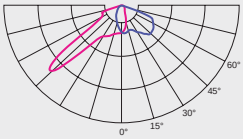
L12



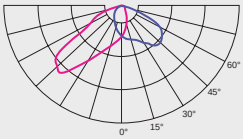
L12
ECO

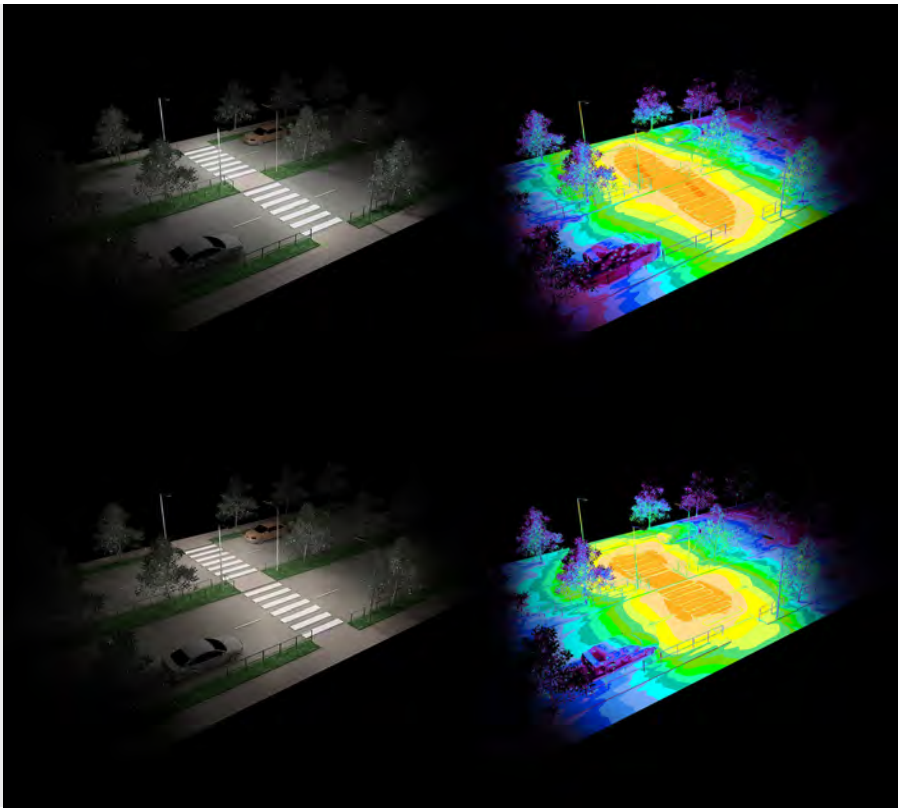


L46



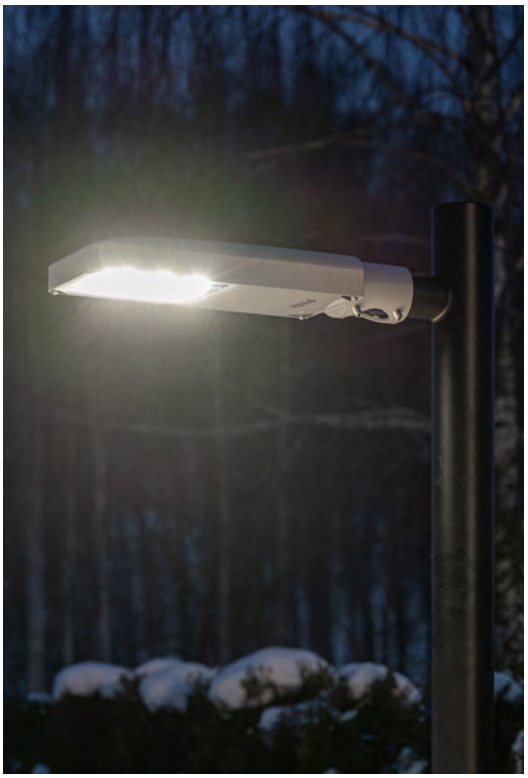
L46
ECO





Backlight cutter





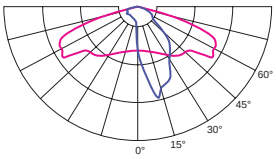
Backlight cutter | black
Art. 70000661

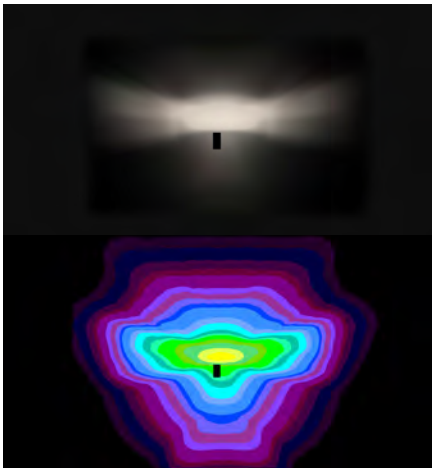
Backlight cutter | white
Art. 70000662



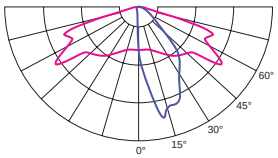
Optical loses from 10% to 31% depending from used optic.

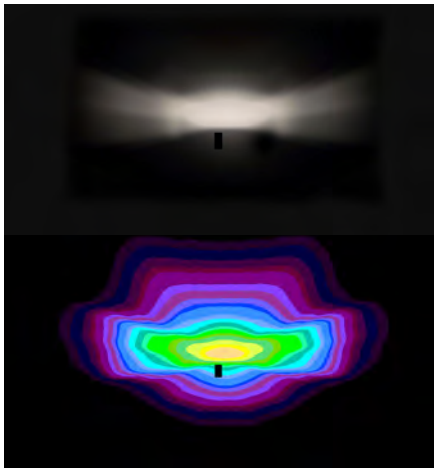
Without backlight cutter



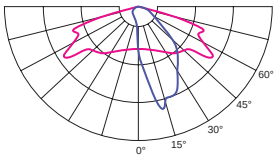


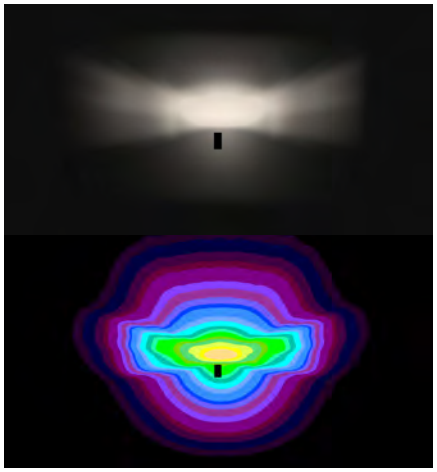
Backlight cutter | black





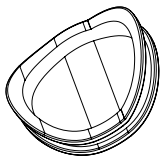
Backlight cutter | white





Accessories

Cover for bottom console opening ..... *Art. 70083001*



NEMA Socket

operating temperature up to 221 °F / 105 °C

2213362-3, 5 pin NEMA socket ..... *Art. 70000362*
2213362-4, 7 pin NEMA socket ..... *Art. 70000333*



Dummy Link for NEMA Socket ..... *Art. 70000113*



Zhaga Socket

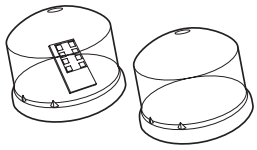
with cap ..... *Art. 70000613*
without cap ..... *Art. 70000612*



Luminaire controller for Zhaga-standard connectors

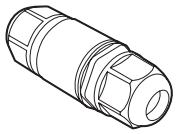
ø 3.15” / 80 mm

MSLC205RG controller with radar ..... *Art. 70010027*
MSLC205RGL controller ..... *Art. 70010029*



IP68 rated wire cable connector

2 wire cable connector ..... *Art. 70000676*
3 wire cable connector ..... *Art. 70000677*
4 wire cable connector ..... *Art. 70000725*
5 wire cable connector ..... *Art. 70000678*



Certification

CE – conformity with European Union's health, safety and environmental protection standards

The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).

UKCA - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.

RoHS – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.

Zhaga-D4i - compliance with the requirements of Zhaga Book 18 or 20 and DALI standard

The Zhaga-D4i Mark represents the fact that a product is certified following the Zhaga-D4i joint certification program – a program established by Zhaga and the DALI Alliance (DiiA). The Zhaga part of the Mark represents that a product meets the requirements of Zhaga Book 18 or 20 – Zhaga standards that describe a smart interface between outdoor luminaires and sensing/ communication nodes. The DALI Alliance part of the Mark signifies that the product conforms with the DALI standard for intelligent, IoT-ready luminaires.

ENEC - compliance with European standards for electrical equipment

The ENEC Mark is the high quality European Mark for electrical equipment. It is governed by the European Testing Inspection Certification System which ensures that the testing of products is conducted at ENEC – accredited laboratories, following additional requirements regarding the testing procedures. The ENEC Mark means that the testing procedure was followed scrupulously and that the consumer can be certain of the product's safety and quality.

ENEC+ - compliance with European standards for LED – based electronic products **[Coming soon]**

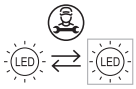
The ENEC+ Mark is the high quality European Mark for LED – based electronic products. It demonstrates the product's compliance with the IEC standards for performance of LED modules and LED based luminaires. The ENEC+ Mark can only be granted to a product that has already acquired the ENEC Mark.

DarkSky Approved - a DarkSky program seal of approval

DarkSky Approved certification is granted to outdoor lighting fixtures meeting the criteria outlined by DarkSky, an organization that aims to reduce light pollution, enabling clearer night skies and mitigating the impact on wildlife and human health. DarkSky Approved luminaires are shielded to cut off uplight, utilize energy-efficient light sources, and employ measures to limit glare. This certification reflects a dedication to responsible outdoor lighting, valued by communities, businesses, and individuals striving to protect nocturnal environments.

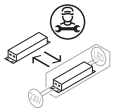
International EPD System – Environmental Product Declaration available

An Environmental Product Declaration (EPD) is a declaration of the materials, energy, transportation and other resources involved in the production, use and end-of life of a specific product. It is based on a Life Cycle Assessment (LCA) study that complies with standards EN ISO 14040 and EN ISO 14044. A product's EPD can help evaluate its impact on the environment and make sustainable choices.



LED module replaceable by a professional

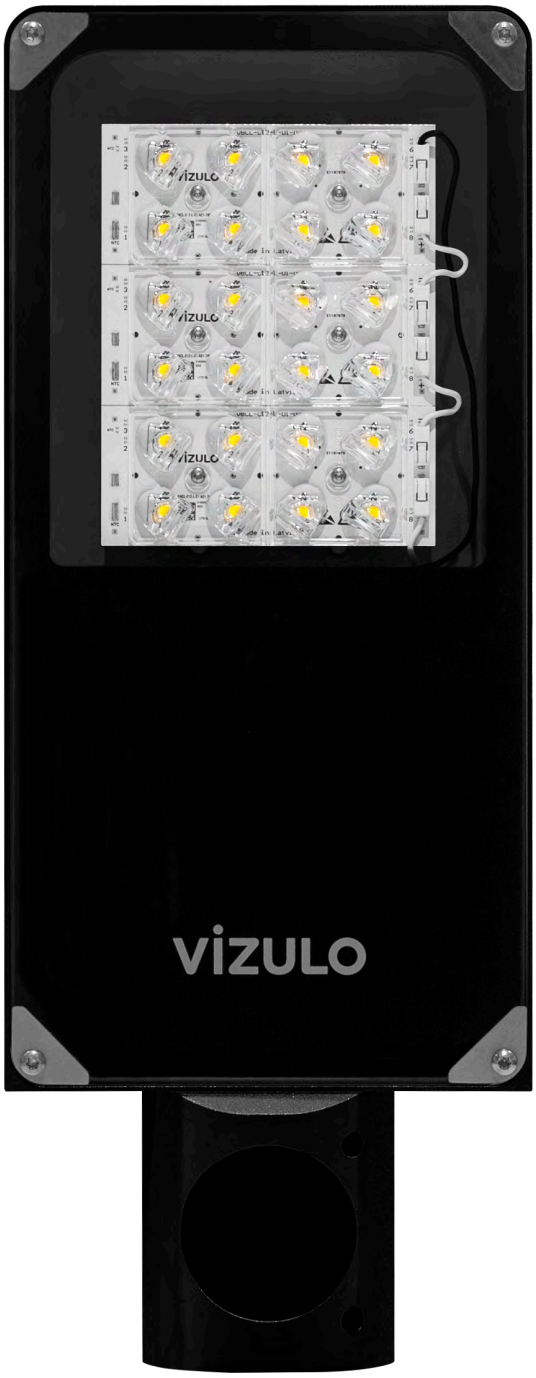
This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



LED driver replaceable by a professional

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

E02A



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Production: + 371 67 383 024

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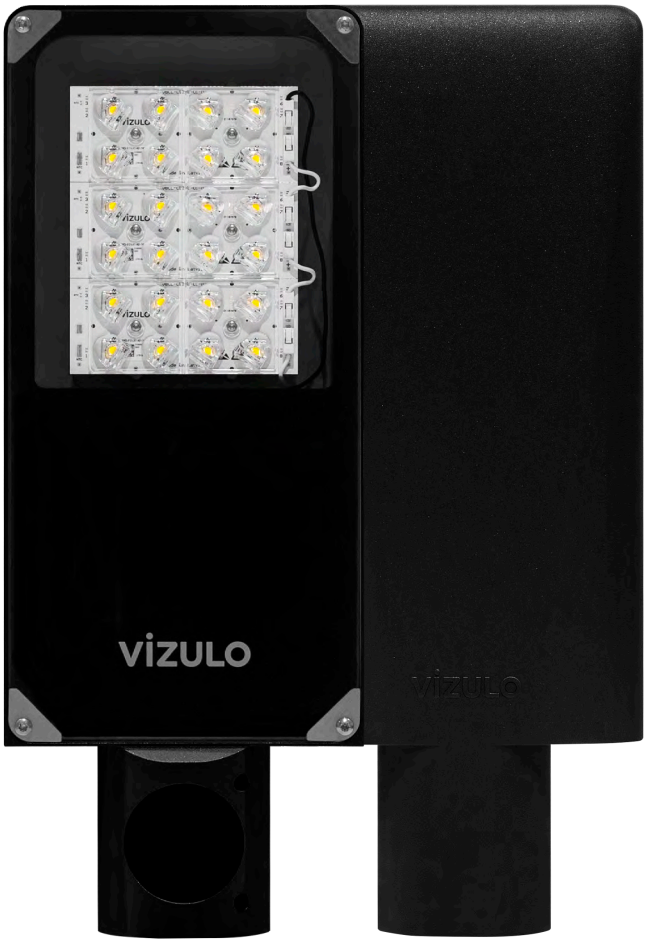
VIZULO

VIZULOSOLUTIONS



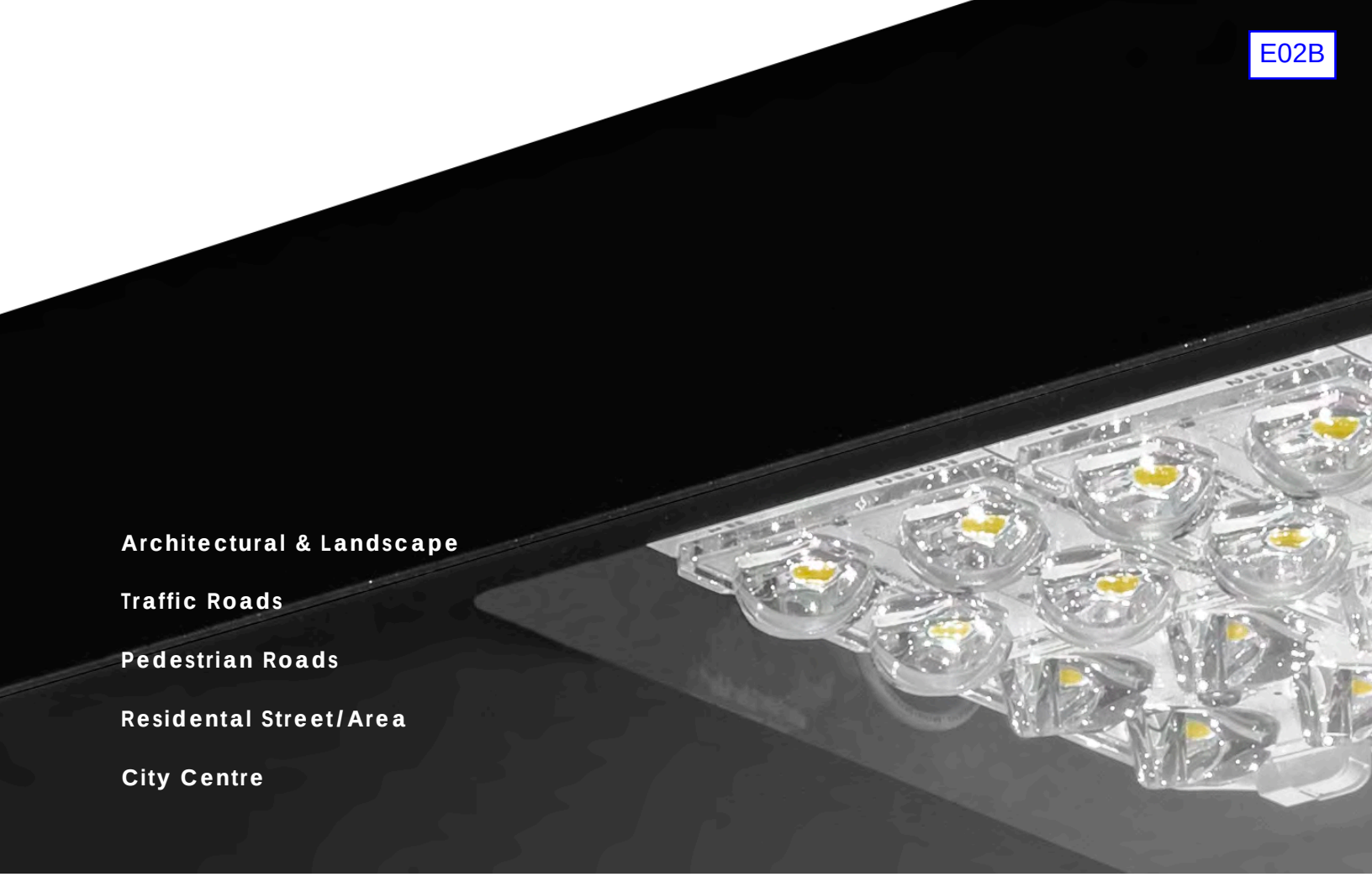
E02B

VIZULO



Colibri

MIDI



Architectural & Landscape

Traffic Roads

Pedestrian Roads

Residental Street/Area

City Centre

Ventilation cable gland
Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity

Glass
Flat glass. Glass is fixed to die-cast aluminium frame with metal clips and can easily be replaced

LED module
High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time.
Available color temperature: 2700 K, 3000 K, 4000 K
(1800 K, 2200 K, 3500 K, 5000 K, 5700 K, 6500 K available on customer request)

Sockets
Zhaga and NEMA sockets compatible

Protection
IP66 for the complete luminaire

Module temperature control
The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB
(function available on customer request)

Body
Die-cast aluminium

Lighting protection
Built-in surge protection starting from 3 kV till 10 kV

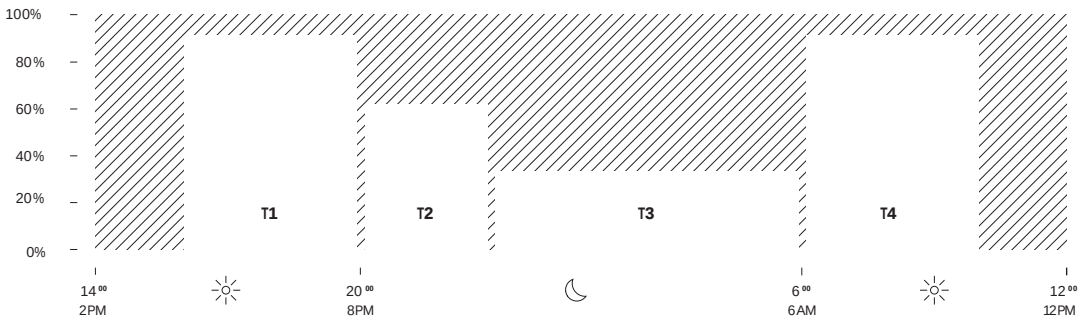
Light regulation
COLIBRI MIDI drivers offer integrated midnight dimming and network-controlled 1-10 V and DALI protocols

Impact resistance
IK09 (Vandal protected) for the complete luminaire



Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.



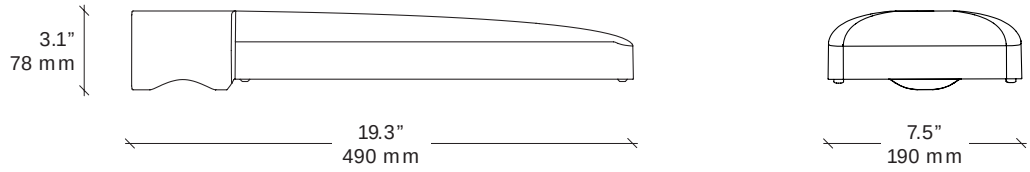
Colibri midi

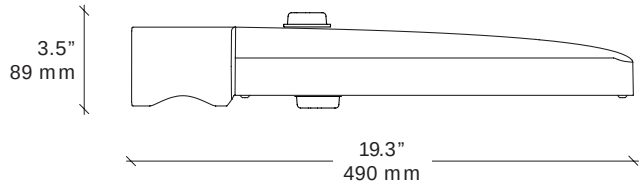


Note! Glass with black print on request!
(standard - gray print glass)

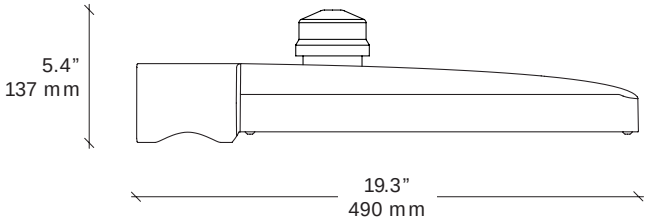
RAL7035 RAL9006 DB703 RAL9005

Other colors
available on request

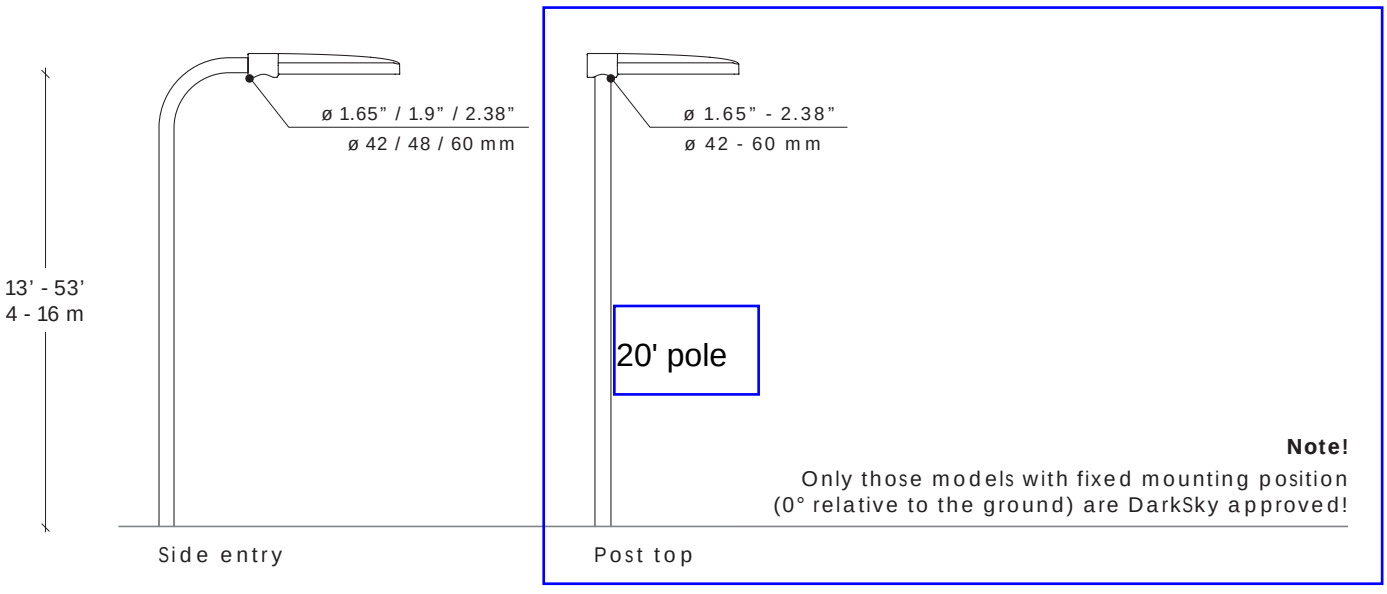




Dimensions with **2 Zhaga connectors**



Dimensions with **NEMA socket**



Features

↘ WHITE OR BLACK PCB - PERFORMANCE MEETS AESTHETICS

Choose **white PCB** for brighter illumination,
or the **black PCB** for a sleek, modern look.

While white PCB offer **~11%** more lumens, black PCB deliver just **2.5%** less light on the road - an impressive result given their design appeal.

Note! Black PCB available on request



Technical information

V	220 - 240
Hz	50 - 60
W	5 - 87 (1
lm	446 - 13 100 (2
lm/W	90 - 164
K	2700 / 3000 / 4000 (3
°F	-40 up to +122 (4
°C	-40 up to +50 (4
CRI	>70 / >80 / >90 (3

Body:	Die-cast aluminium
Dimming:	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	Eco 100 000 h (L90B10) at Ta = 77 °F / 25 °C* Standard 100 000 h (L98B10) at Ta = 77 °F / 25 °C* High density 100 000 h (L98B10) at Ta = 77°F / 25°C*
Warranty:	5 years
Installation:	Pre-wired cable 11.8” / 30 cm (5
Spigot:	1.65” / 1.9” / 2.38” / 3” (6 42 mm / 48 mm / 60 mm / 76 mm (6
Socket:	NEMA Top / Zhaga Top and Bottom
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	4 / 6 / 10 kV (7
Corrosion protection:	Up to C5
Neto weight:	Up to 9.3 lbs / 4.2 kg
Max. wind load area, SCd:	0.39 ft² / 0.036 m²

1) Colibri Midi with Zhaga max power 85 W
2) Lumen output indicated at CRI > 70
3) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
   Note! *Only fixtures with CCT of 3000 K or lower are DarkSky approved!*
4) Operating temperature differs depending on chosen output wattage
5) Other lengths available on request
6) Achievable with pole adapter from luminaire with ø 3” / 76 mm console to pole with ø 1.57” - 2.38” / 40 - 60 mm (on request)
7) 10 kV (L-N; L/N-PE) surge protection device available on request
8) Coming soon
9) EPD registration number: S-P-05886 (link to page)

* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Standard modules

* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			12			16			24	
Nominal current, mA	140	540	700	280	500	660	280	500	760	260	470	700
Power, W	5	15	19	12	20	26	15	25	39	20	35	52
Luminous Flux, lm	520	1840	2300	1530	2590	3300	2160	3560	5300	3060	5240	7400
Efficacy, lm/W	104	123	121	128	130	127	144	142	136	153	150	142
Power factor, PF		Up to 0.94			Up to 0.97			Up to 0.98			Up to 0.97	

Luminaire efficacy	2700 K	5 - 52 W	446 - 6350 lm	90 - 131 lm/W
	3000 K	5 - 52 W	490 - 7000 lm	98 - 144 lm/W
	5000 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W

High density modules

* Data for V01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		16			32			48	
Nominal current, mA	280	480	770	270	510	700	270	350	600
Power, W	15	25	39	27	50	68	39	50	87
Luminous Flux, lm	2010	3310	4920	4000	7111	9280	6400	8035	13100
Efficacy, lm/W	134	132	126	148	142	136	164	161	151
Power factor, PF		Up to 0.98			Up to 0.97			Up to 0.98	

Luminaire efficacy	2700 K	15 - 87 W	1730 - 11210 lm	108 - 140 lm/W
	3000 K	15 - 87 W	1900 - 12320 lm	119 - 155 lm/W
	5000 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W
	5700 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W

Eco modules

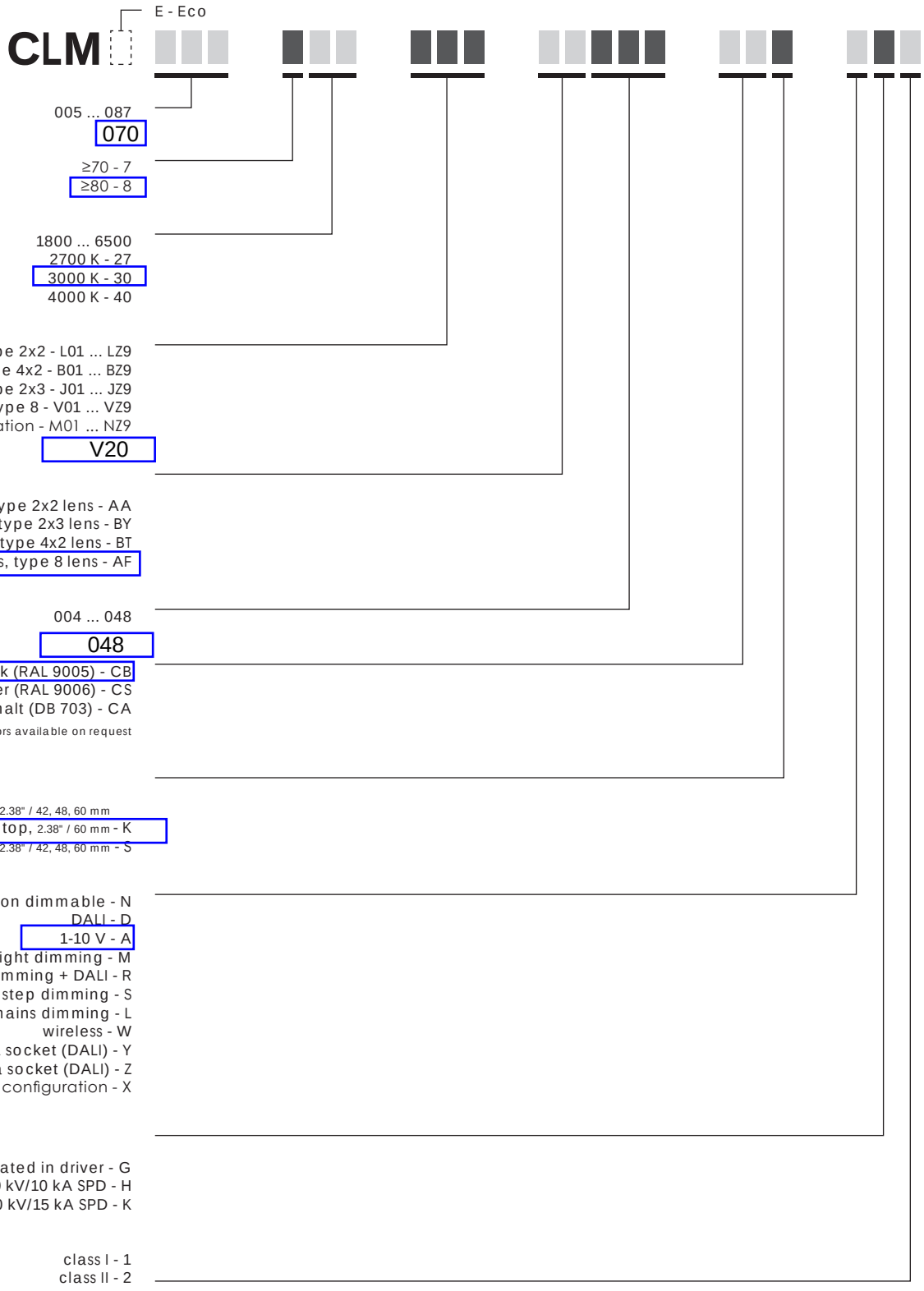
* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			12			16	
Nominal current, mA	280	470	700	280	450	700	280	490	710
Power, W	15	25	38	22	35	55	28	50	74
Luminous Flux, lm	1960	3120	4340	2980	4470	6300	4100	6460	8810
Efficacy, lm/W	131	125	114	135	128	115	146	129	119
Power factor, PF		Up to 0.98			Up to 0.98			Up to 0.97	

Luminaire efficacy	2700 K	5 - 74 W	1833 - 8255 lm	107 - 137 lm/W
	3000 K	5 - 74 W	1960 - 8600 lm	114 - 142 lm/W
	5000 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W
	5700 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W

Model name principles

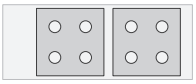
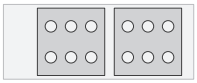
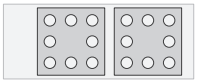
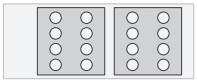


EXAMPLE CLM 020 730 L17 A008 CAK NG1

*** CUSTOM CONFIGURATION EXAMPLE**

NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.
Custom configuration information is available in order confirmation.

LED modules

Type	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
AA	3	4	8	24	2	Standard Eco	type 2x2 L01...LZ9	
BY	3	6	12	36	6	Eco	type 2x3 J01...JZ9	
AF	3	8	16	48	2	Standard	type 8 V01...VZ9	
BT	3	8	16	48	8	Standard Eco	type 4x2 B01...BZ9	

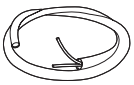
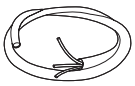
Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count Class I	Input cable core count Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 [1]	4 [1]
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 [2]	2 [2]
Zhaga	Midnight dimming	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 [3]	2 / 4 [3]
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 [1]	4 [1]
NEMA	Mains dimming	X	3	2

[1] 1 core unused
[2] DALI wires used only for internal connection between driver and Zhaga socket(s)
[3] +2 cores for external DALI connection

Cable order information*

* Custom cable lengths available on request

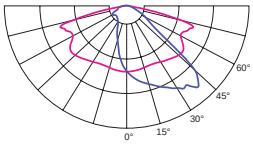


Cable length [ft]	Cable length [m]	2 x 16 AWG/ 1.5 mm²	3 x 16 AWG/ 1.5 mm²	4 x 16 AWG/ 1.5 mm²	5 x 16 AWG/ 1.5 mm²
1.6	0.5	*Art. 70100184*	*Art. 70100179*	*Art. 70100402*	*Art. 70100409*
3.3	1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100220*
4.9	1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70100410*
6.6	2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70100262*
8.2	2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70100411*
9.8	3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70100217*
13.1	4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70100189*
16.4	5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70100185*
19.7	6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000370*
23.0	7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70100201*
26.3	8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70100212*
29.5	9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70100192*
32.8	10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000387*
36.1	11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000388*
39.4	12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70100200*
42.7	13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100412*
45.9	14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100165*
49.2	15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70100183*
65.6	20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70100413*
82.0	25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70100414*

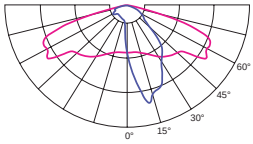
Optics

Standard modules

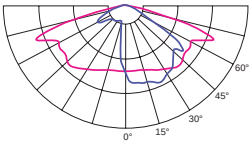
L01



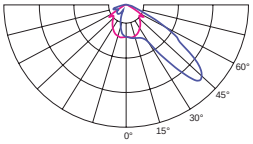
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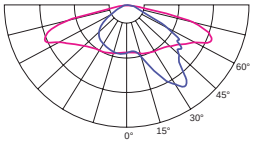
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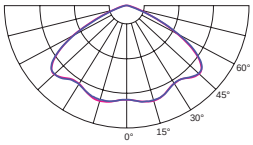
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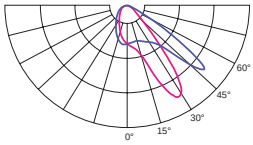
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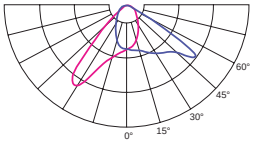
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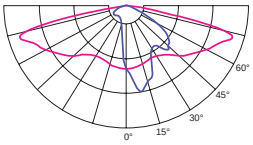
L11



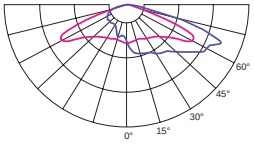
L12



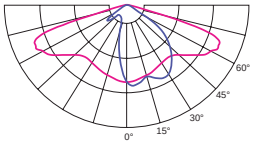
L22



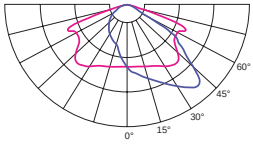
L35



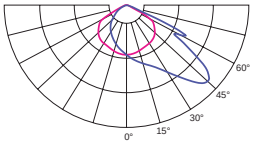
L76



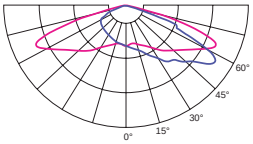
L77



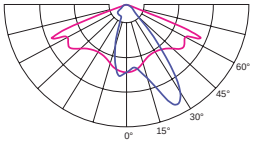
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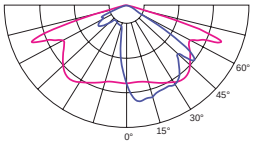
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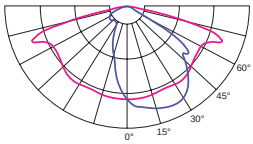
L81



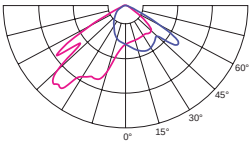
L82



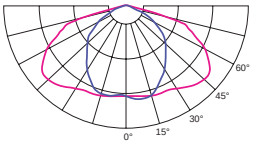
L83



L84

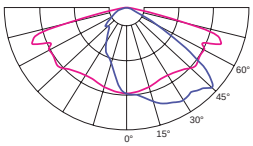


L85

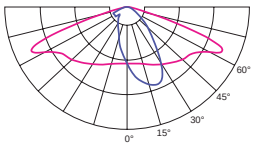


High density modules

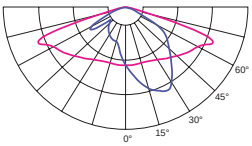
V01



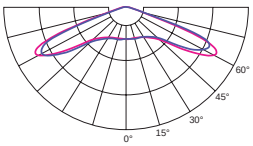
V04



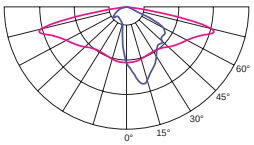
V05



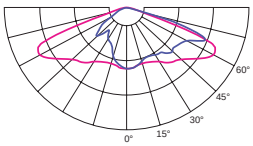
V20



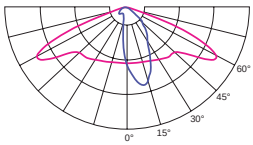
V22



V35



V57





Pedestrian crossing optics

IP66 IK09 RoHS PLUS EPD

V	220 - 240
Hz	50 - 60
W	5 - 52 (1
	5 - 74 (2
lm	Up to 7 400 (1
	Up to 8 810 (2
lm/W	90 - 153 (1
	107 - 147 (2
K	2700 / 3000 / 4000 (3
°F	-40 up to +122 (4
°C	-40 up to +50 (4
CRI	>70 / >80 / >90 (3

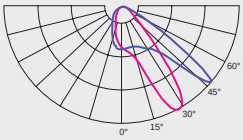
Body:	Die-cast aluminium
Dimming:	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	Eco 100 000 h (L90B10) at Ta = 77 °F / 25 °C* Standard 100 000 h (L98B10) at Ta = 77 °F / 25 °C*
Warranty:	5 years
Installation:	Pre-wired cable 11.8” / 30 cm (5
Spigot:	1.65” / 1.9” / 2.38” / 3” (6 42 mm / 48 mm / 60 mm / 76 mm (6
Socket:	NEMA Top / Zhaga Top and Bottom
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	4 / 6 / 10 kV (7
Corrosion protection:	Up to C5
Neto weight:	Up to 9.3 lbs / 4.2 kg
Max. wind load area, SCd:	0.39 ft² / 0.036 m²

1) Standard modules, lumen output indicated at CRI > 70
2) Eco modules, lumen output indicated at CRI > 70
3) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
   Note! *Only fixtures with CCT of 3000 K or lower are DarkSky approved!*
4) Operating temperature differs depending on chosen output wattage
5) Other lengths available on request
6) Achievable with pole adapter from luminaire with ø 3” / 76 mm console to pole with ø 1.57” - 2.38” / 40 - 60 mm (on request)
7) 10 kV (L-N; L/N-PE) surge protection device available on request
8) Coming soon
9) EPD registration number: S-P-05886 (link to page)

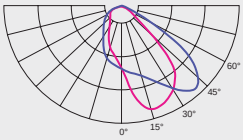
* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Right side traffic

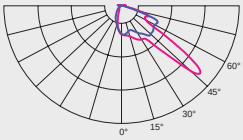
L11



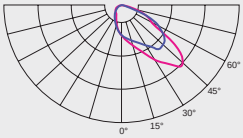
L11
ECO

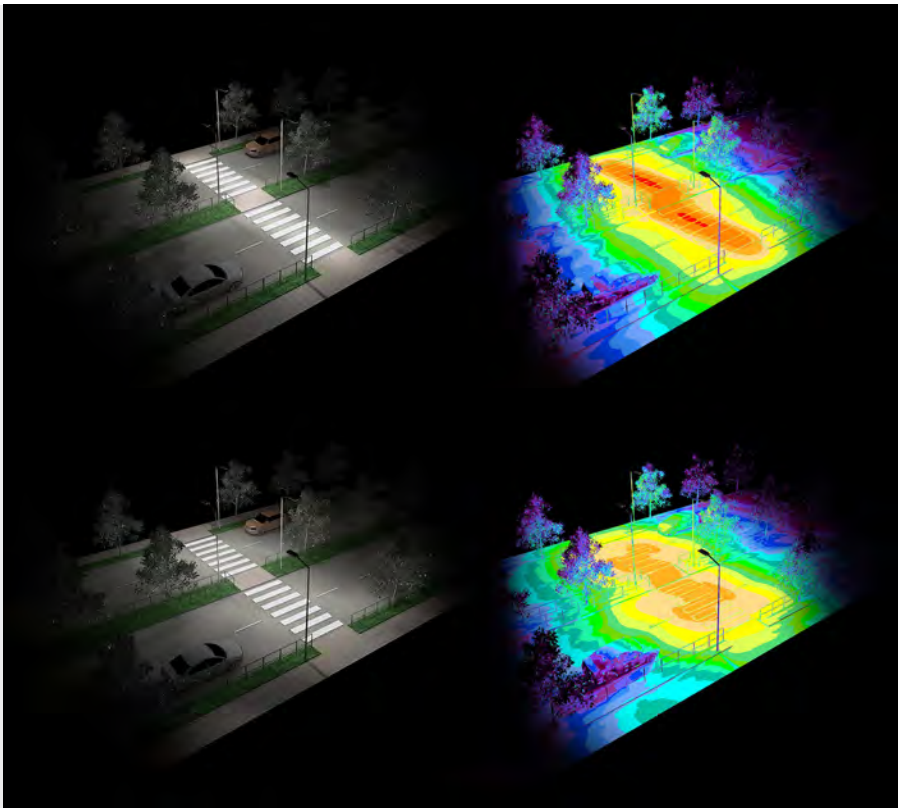


L36



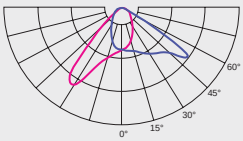
L36
ECO



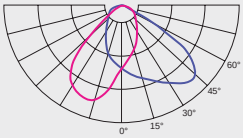


Left side traffic

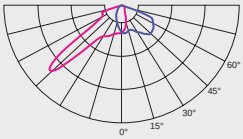
L12



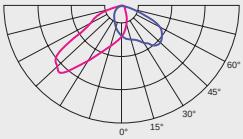
L12
ECO

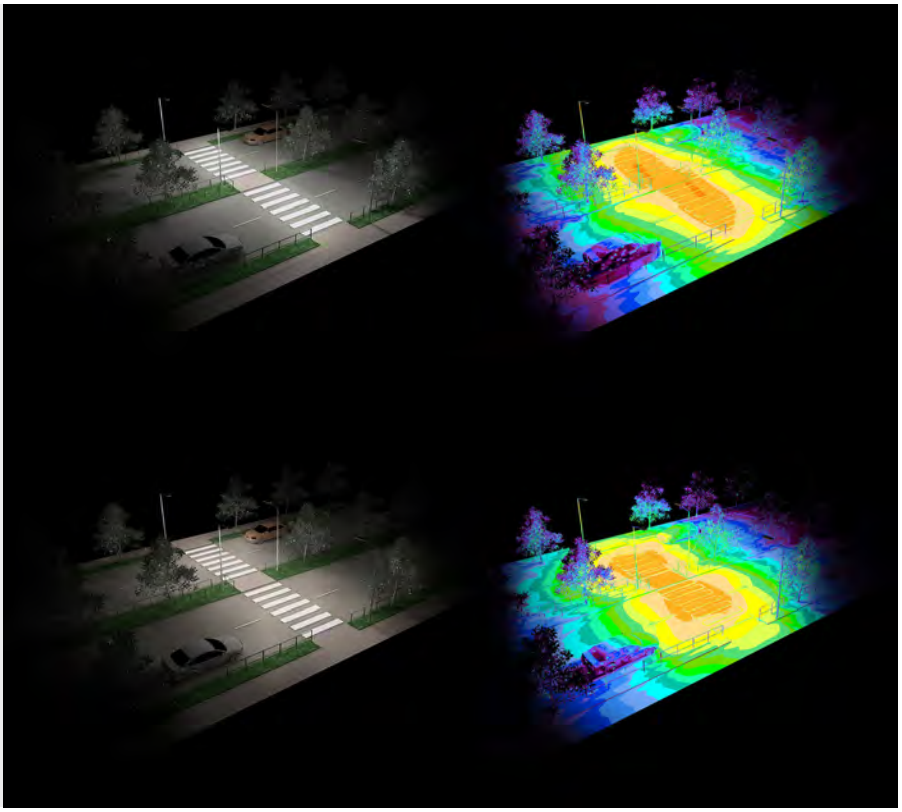


L46



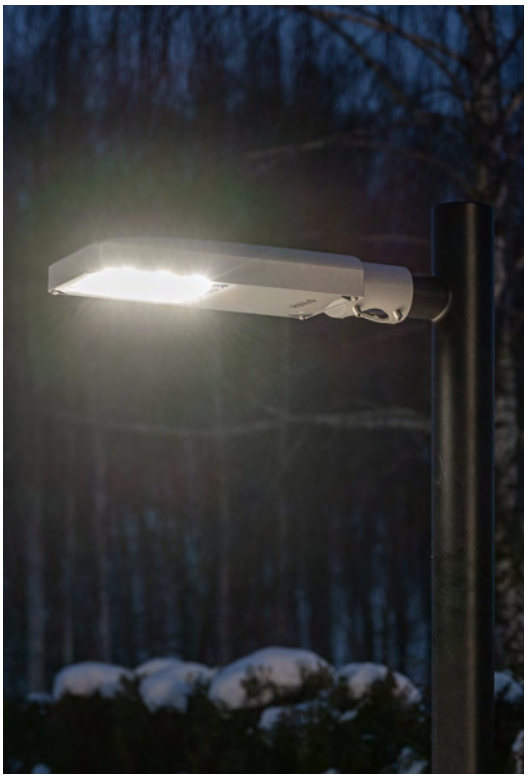
L46
ECO





Backlight cutter





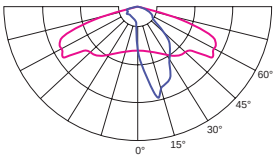
Backlight cutter | black
Art. 70000661

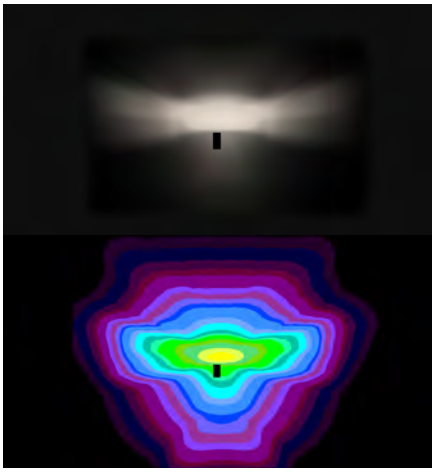
Backlight cutter | white
Art. 70000662



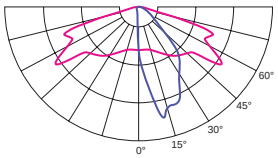
Optical loses from 10% to 31% depending from used optic.

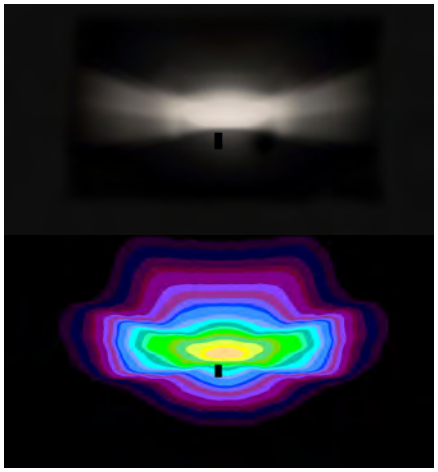
Without backlight cutter



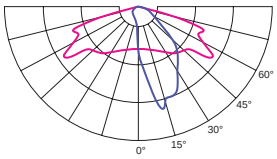


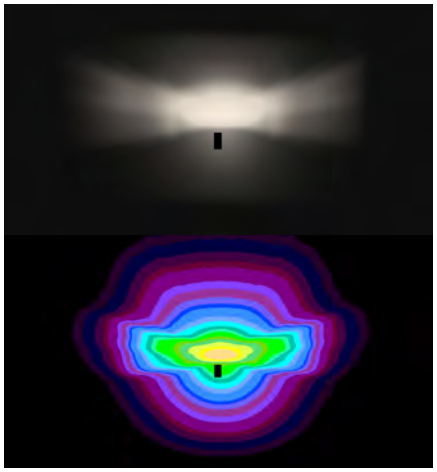
Backlight cutter | black





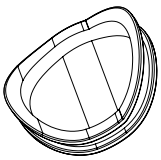
Backlight cutter | white





Accessories

Cover for bottom console opening ..... *Art. 70083001*



NEMA Socket

operating temperature up to 221 °F / 105 °C

2213362-3, 5 pin NEMA socket ..... *Art. 70000362*
2213362-4, 7 pin NEMA socket ..... *Art. 70000333*

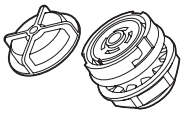


Dummy Link for NEMA Socket ..... *Art. 70000113*



Zhaga Socket

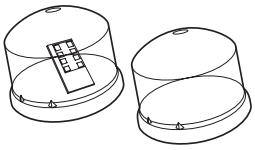
with cap ..... *Art. 70000613*
without cap ..... *Art. 70000612*



Luminaire controller for Zhaga-standard connectors

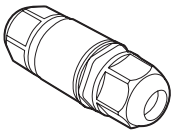
ø 3.15” / 80 mm

MSLC205RG controller with radar ..... *Art. 70010027*
MSLC205RGL controller ..... *Art. 70010029*



IP68 rated wire cable connector

2 wire cable connector ..... *Art. 70000676*
3 wire cable connector ..... *Art. 70000677*
4 wire cable connector ..... *Art. 70000725*
5 wire cable connector ..... *Art. 70000678*



Certification

CE – conformity with European Union's health, safety and environmental protection standards

The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).

UKCA - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.

RoHS – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.

Zhaga-D4i - compliance with the requirements of Zhaga Book 18 or 20 and DALI standard

The Zhaga-D4i Mark represents the fact that a product is certified following the Zhaga-D4i joint certification program – a program established by Zhaga and the DALI Alliance (DiiA). The Zhaga part of the Mark represents that a product meets the requirements of Zhaga Book 18 or 20 – Zhaga standards that describe a smart interface between outdoor luminaires and sensing/ communication nodes. The DALI Alliance part of the Mark signifies that the product conforms with the DALI standard for intelligent, IoT-ready luminaires.

ENEC - compliance with European standards for electrical equipment

The ENEC Mark is the high quality European Mark for electrical equipment. It is governed by the European Testing Inspection Certification System which ensures that the testing of products is conducted at ENEC – accredited laboratories, following additional requirements regarding the testing procedures. The ENEC Mark means that the testing procedure was followed scrupulously and that the consumer can be certain of the product's safety and quality.

ENEC+ - compliance with European standards for LED – based electronic products **[Coming soon]**

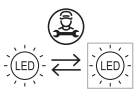
The ENEC+ Mark is the high quality European Mark for LED – based electronic products. It demonstrates the product's compliance with the IEC standards for performance of LED modules and LED based luminaires. The ENEC+ Mark can only be granted to a product that has already acquired the ENEC Mark.

DarkSky Approved - a DarkSky program seal of approval

DarkSky Approved certification is granted to outdoor lighting fixtures meeting the criteria outlined by DarkSky, an organization that aims to reduce light pollution, enabling clearer night skies and mitigating the impact on wildlife and human health. DarkSky Approved luminaires are shielded to cut off uplight, utilize energy-efficient light sources, and employ measures to limit glare. This certification reflects a dedication to responsible outdoor lighting, valued by communities, businesses, and individuals striving to protect nocturnal environments.

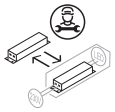
International EPD System – Environmental Product Declaration available

An Environmental Product Declaration (EPD) is a declaration of the materials, energy, transportation and other resources involved in the production, use and end-of life of a specific product. It is based on a Life Cycle Assessment (LCA) study that complies with standards EN ISO 14040 and EN ISO 14044. A product's EPD can help evaluate its impact on the environment and make sustainable choices.



LED module replaceable by a professional

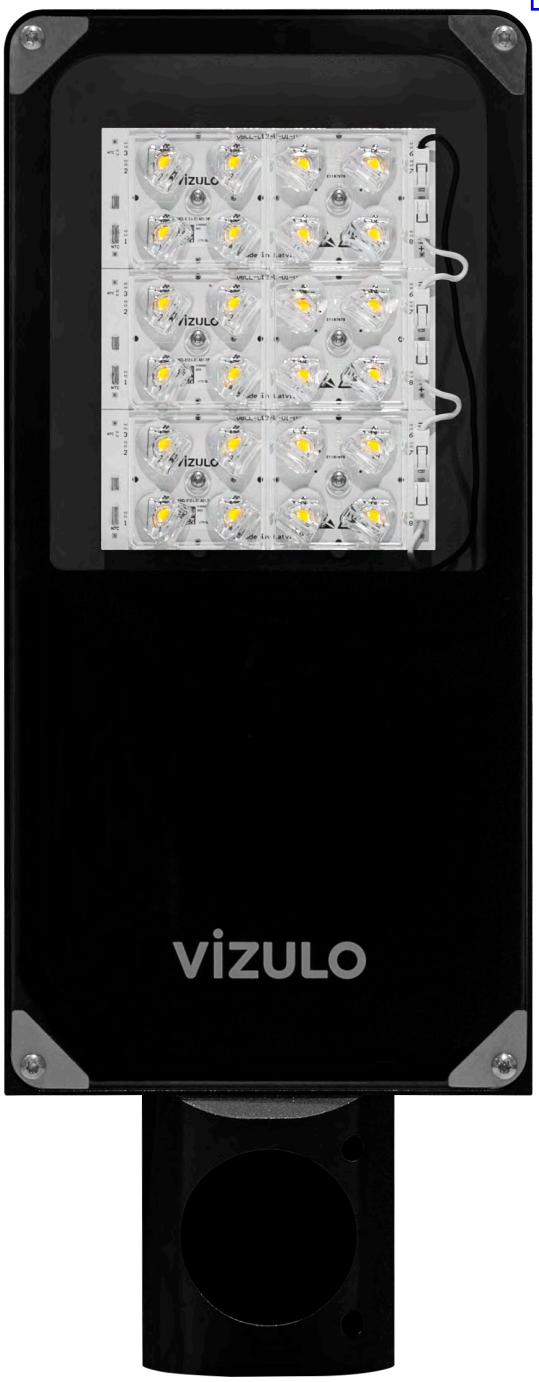
This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



LED driver replaceable by a professional

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

E02B



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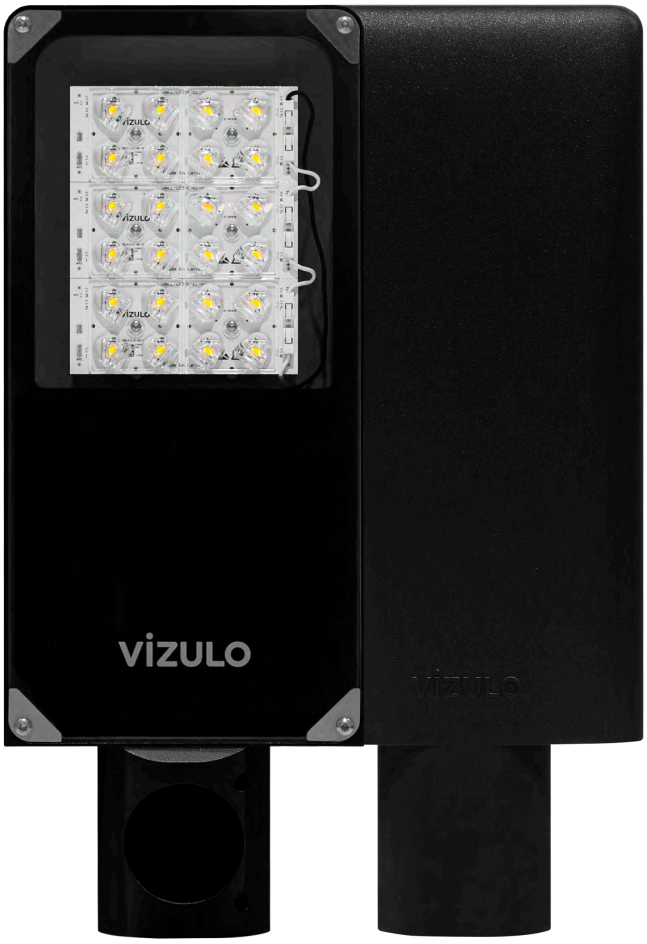
VIZULO

VIZULOSOLUTIONS



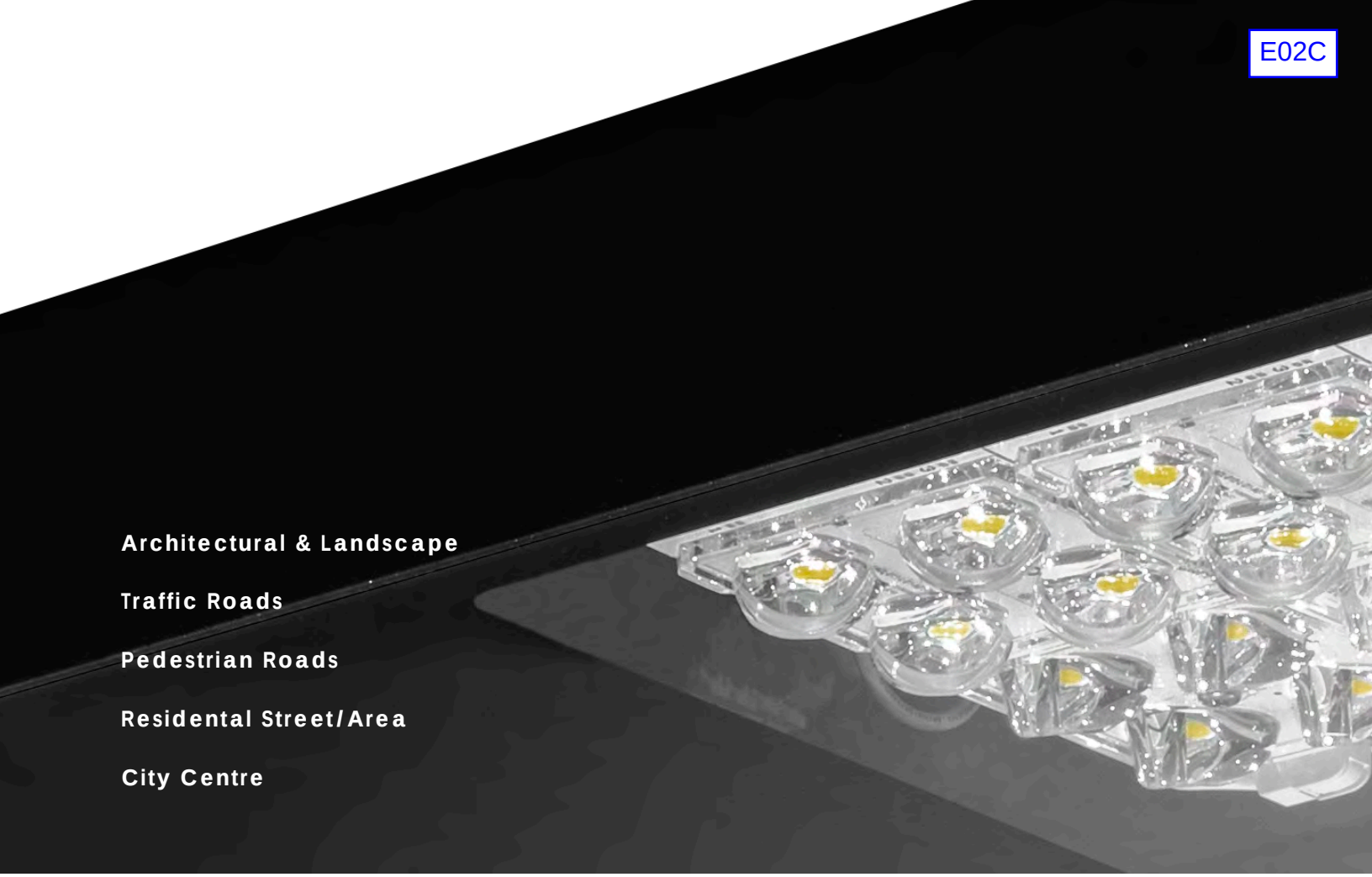
E02C

VIZULO



Colibri

MIDI



Architectural & Landscape

Traffic Roads

Pedestrian Roads

Residental Street/Area

City Centre

Ventilation cable gland
Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity

Glass
Flat glass. Glass is fixed to die-cast aluminium frame with metal clips and can easily be replaced

LED module
High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time.
Available color temperature: 2700 K, 3000 K, 4000 K
(1800 K, 2200 K, 3500 K, 5000 K, 5700 K, 6500 K available on customer request)

Sockets
Zhaga and NEMA sockets compatible

Protection
IP66 for the complete luminaire

Module temperature control
The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB
(function available on customer request)

Body
Die-cast aluminium

Lighting protection
Built-in surge protection starting from 3 kV till 10 kV

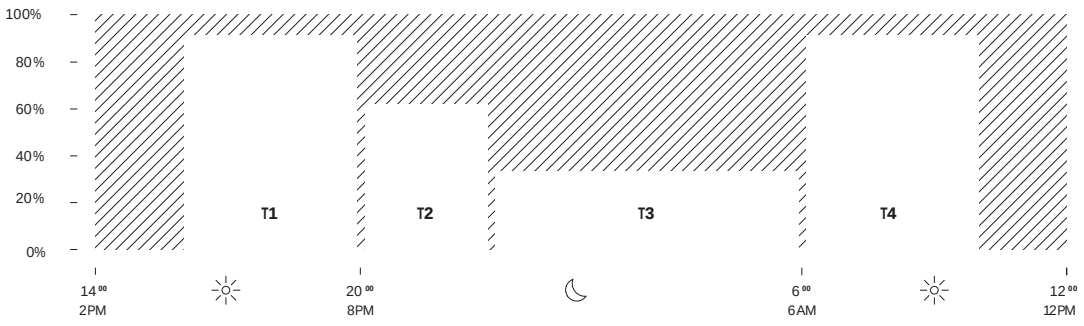
Light regulation
COLIBRI MIDI drivers offer integrated midnight dimming and network-controlled 1-10 V and DALI protocols

Impact resistance
IK09 (Vandal protected) for the complete luminaire



Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.



Colibri midi



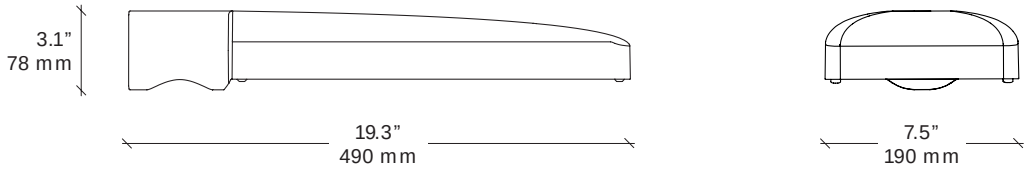


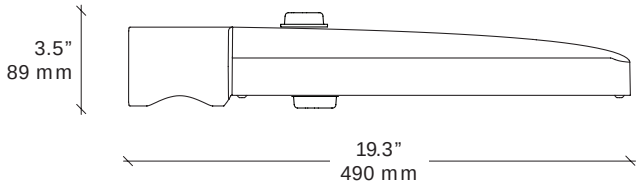


Note! Glass with black print on request!
(standard - gray print glass)

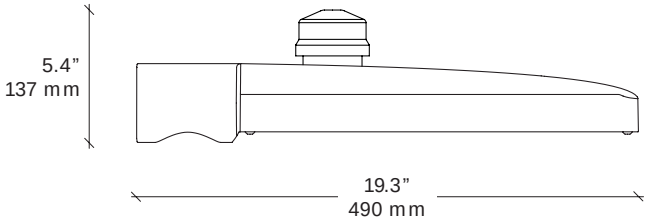
RAL7035 RAL9006 DB703 RAL9005

Other colors
available on request

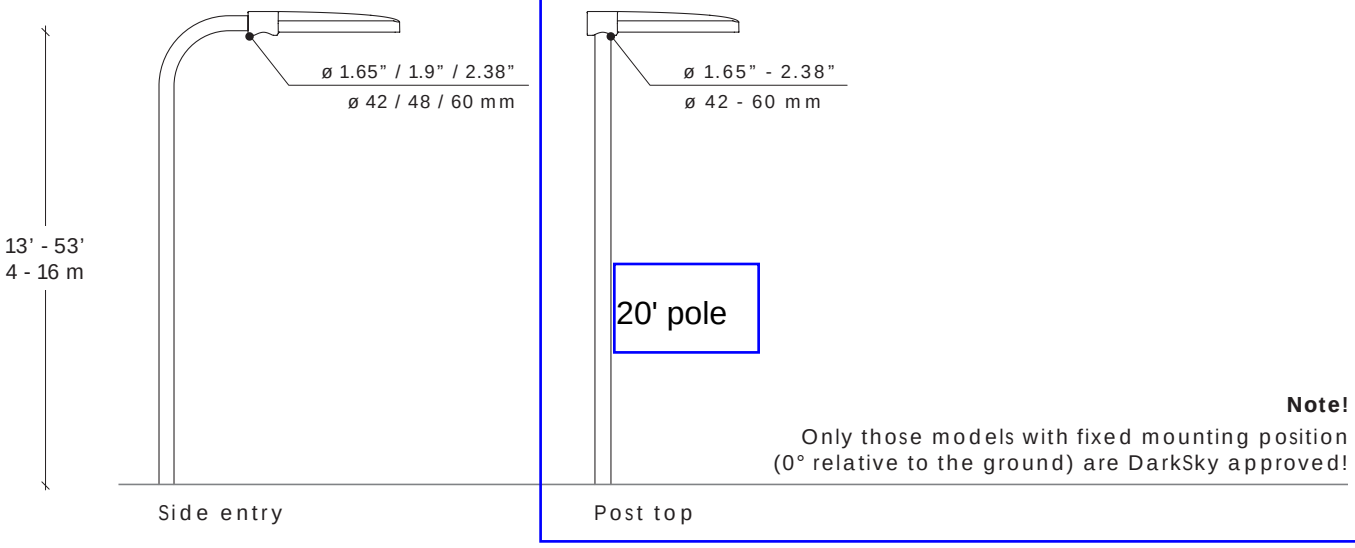




Dimensions with **2 Zhaga connectors**



Dimensions with **NEMA socket**



Features

↘ WHITE OR BLACK PCB - PERFORMANCE MEETS AESTHETICS

Choose **white PCB** for brighter illumination,
or the **black PCB** for a sleek, modern look.

While white PCB offer **~11%** more lumens, black PCB deliver just **2.5%** less light on the road - an impressive result given their design appeal.

Note! Black PCB available on request



Technical information



V	220 - 240
Hz	50 - 60
W	5 - 87 (1
lm	446 - 13 100 (2
lm/W	90 - 164
K	2700 / 3000 / 4000 (3
°F	-40 up to +122 (4
°C	-40 up to +50 (4
CRI	>70 / >80 / >90 (3

Body:	Die-cast aluminium
Dimming:	DALI / 1-10 V / Midnight dimming / Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	Eco 100 000 h (L90B10) at Ta = 77 °F / 25 °C* Standard 100 000 h (L98B10) at Ta = 77 °F / 25 °C* High density 100 000 h (L98B10) at Ta = 77°F / 25°C*
Warranty:	5 years
Installation:	Pre-wired cable 11.8” / 30 cm (5
Spigot:	1.65” / 1.9” / 2.38” / 3” (6 42 mm / 48 mm / 60 mm / 76 mm (6
Socket:	NEMA Top / Zhaga Top and Bottom
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	4 / 6 / 10 kV (7
Corrosion protection:	Up to C5
Neto weight:	Up to 9.3 lbs / 4.2 kg
Max. wind load area, SCd:	0.39 ft² / 0.036 m²

1) Colibri Midi with Zhaga max power 85 W

2) Lumen output indicated at CRI > 70

3) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

Note! *Only fixtures with CCT of 3000 K or lower are DarkSky approved!*

4) Operating temperature differs depending on chosen output wattage

5) Other lengths available on request

6) Achievable with pole adapter from luminaire with ø 3” / 76 mm console to pole with ø 1.57” - 2.38” / 40 - 60 mm (on request)

7) 10 kV (L-N; L/N-PE) surge protection device available on request

8) Coming soon

9) EPD registration number: S-P-05886 (link to page)

* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Standard modules

* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			12			16			24	
Nominal current, mA	140	540	700	280	500	660	280	500	760	260	470	700
Power, W	5	15	19	12	20	26	15	25	39	20	35	52
Luminous Flux, lm	520	1840	2300	1530	2590	3300	2160	3560	5300	3060	5240	7400
Efficacy, lm/W	104	123	121	128	130	127	144	142	136	153	150	142
Power factor, PF		Up to 0.94			Up to 0.97			Up to 0.98			Up to 0.97	

Luminaire efficacy				
	2700 K	5 - 52 W	446 - 6350 lm	90 - 131 lm/W
	3000 K	5 - 52 W	490 - 7000 lm	98 - 144 lm/W
	5000 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W
	5700 K	5 - 52 W	520 - 7400 lm	104 - 153 lm/W

High density modules

* Data for V01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		16			32			48	
Nominal current, mA	280	480	770	270	510	700	270	350	600
Power, W	15	25	39	27	50	68	39	50	87
Luminous Flux, lm	2010	3310	4920	4000	7111	9280	6400	8035	13100
Efficacy, lm/W	134	132	126	148	142	136	164	161	151
Power factor, PF		Up to 0.98			Up to 0.97			Up to 0.98	

Luminaire efficacy				
	2700 K	15 - 87 W	1730 - 11210 lm	108 - 140 lm/W
	3000 K	15 - 87 W	1900 - 12320 lm	119 - 155 lm/W
	5000 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W
	5700 K	15 - 87 W	2010 - 13100 lm	126 - 164 lm/W

Eco modules

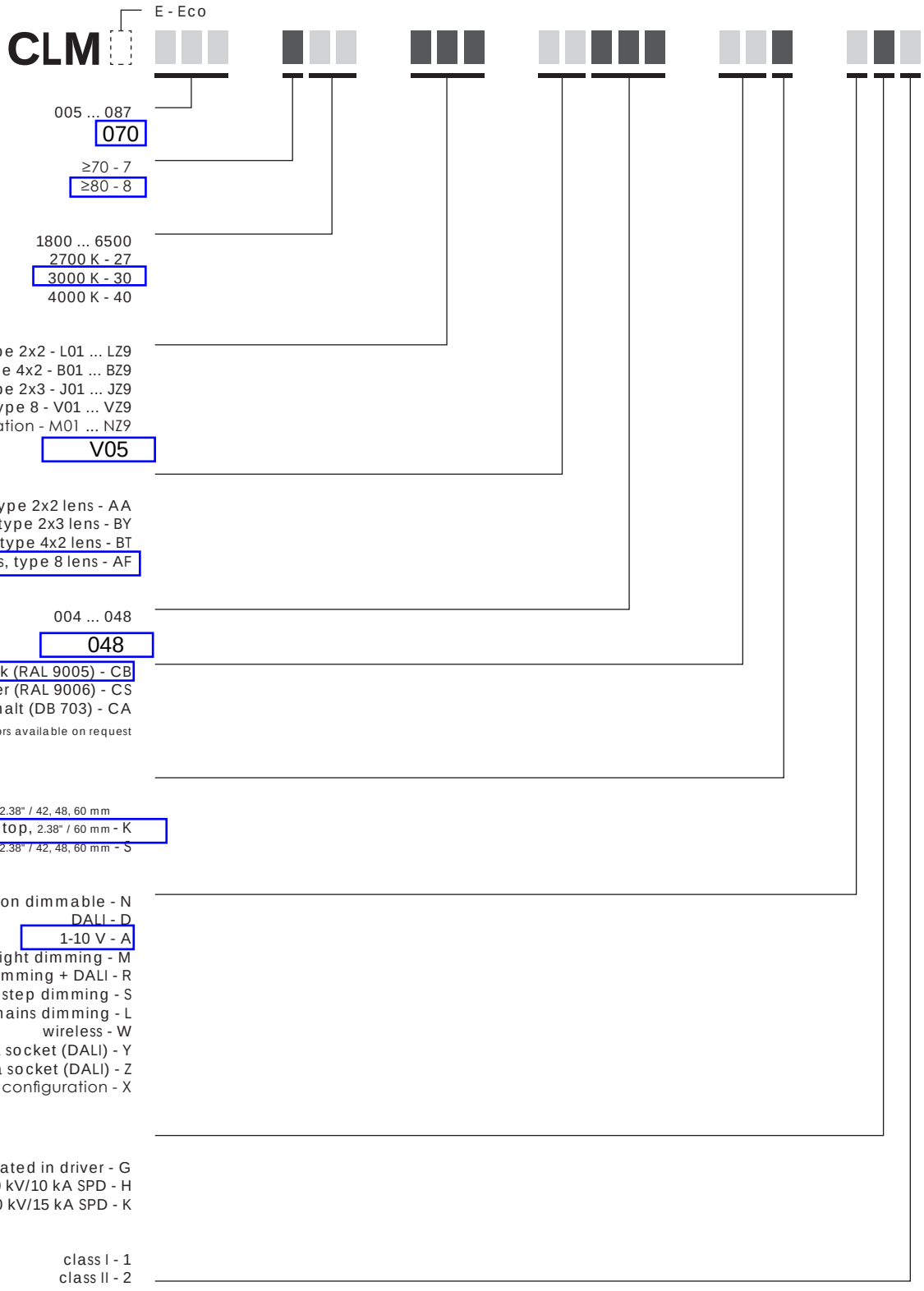
* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		8			12			16	
Nominal current, mA	280	470	700	280	450	700	280	490	710
Power, W	15	25	38	22	35	55	28	50	74
Luminous Flux, lm	1960	3120	4340	2980	4470	6300	4100	6460	8810
Efficacy, lm/W	131	125	114	135	128	115	146	129	119
Power factor, PF		Up to 0.98			Up to 0.98			Up to 0.97	

Luminaire efficacy				
	2700 K	5 - 74 W	1833 - 8255 lm	107 - 137 lm/W
	3000 K	5 - 74 W	1960 - 8600 lm	114 - 142 lm/W
	5000 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W
	5700 K	5 - 74 W	1960 - 8810 lm	114 - 147 lm/W

Model name principles

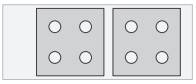
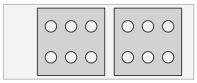
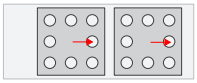
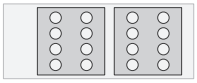


EXAMPLE CLM 020 730 L17 A008 CAK NG1

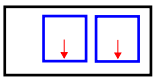
*** CUSTOM CONFIGURATION EXAMPLE**

NEMA socket + Zhaga socket; NEMA socket + Zhaga socket + midnight dimming; etc.
Custom configuration information is available in order confirmation.

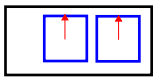
LED modules

Type	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
AA	3	4	8	24	2	Standard Eco	type 2x2 L01...LZ9	
BY	3	6	12	36	6	Eco	type 2x3 J01...JZ9	
AF	3	8	16	48	2	Standard	type 8 V01...VZ9	
BT	3	8	16	48	8	Standard Eco	type 4x2 B01...BZ9	

Configuration pole C1, AF V05:
Rotation of the optics 90 degrees clockwise



Configuration pole C2, AF V05:
Rotation of the optics 90 degrees counter-clockwise



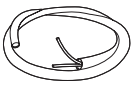
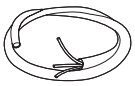
Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count Class I	Input cable core count Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 [1]	4 [1]
None	Mains dimming	L	3	2
Zhaga	DALI	Z	3 [2]	2 [2]
Zhaga	Midnight dimming	X	3	2
Zhaga	Mains dimming	X	3	2
NEMA	DALI	Y	3 / 5 [3]	2 / 4 [3]
NEMA	Midnight dimming	X	3	2
NEMA	Step dimming	X	5 [1]	4 [1]
NEMA	Mains dimming	X	3	2

[1] 1 core unused
[2] DALI wires used only for internal connection between driver and Zhaga socket(s)
[3] +2 cores for external DALI connection

Cable order information*

* Custom cable lengths available on request

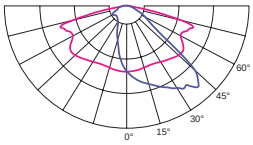


Cable length [ft]	Cable length [m]	2 x 16 AWG/ 1.5 mm²	3 x 16 AWG/ 1.5 mm²	4 x 16 AWG/ 1.5 mm²	5 x 16 AWG/ 1.5 mm²
1.6	0.5	*Art. 70100184*	*Art. 70100179*	*Art. 70100402*	*Art. 70100409*
3.3	1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100220*
4.9	1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70100410*
6.6	2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70100262*
8.2	2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70100411*
9.8	3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70100217*
13.1	4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70100189*
16.4	5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70100185*
19.7	6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000370*
23.0	7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70100201*
26.3	8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70100212*
29.5	9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70100192*
32.8	10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000387*
36.1	11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000388*
39.4	12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70100200*
42.7	13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100412*
45.9	14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100165*
49.2	15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70100183*
65.6	20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70100413*
82.0	25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70100414*

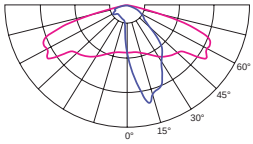
Optics

Standard modules

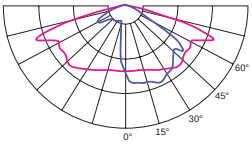
L01



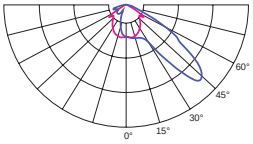
L04



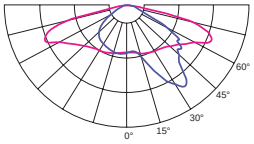
L05



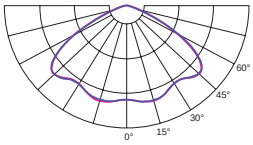
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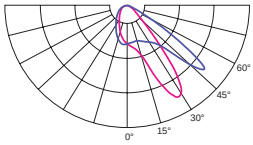
L09



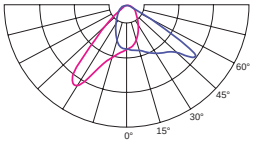
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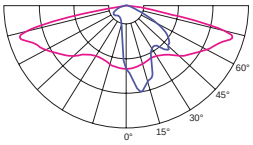
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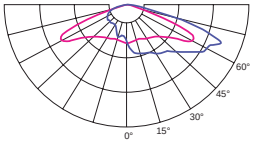
L12



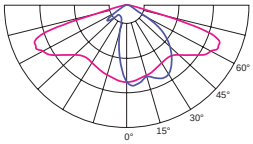
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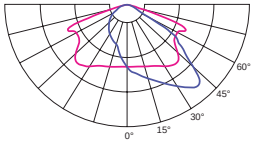
L35



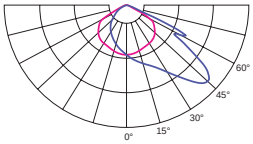
L76



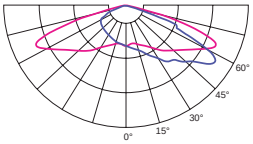
L77



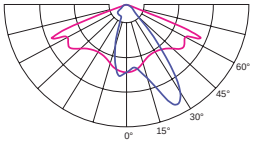
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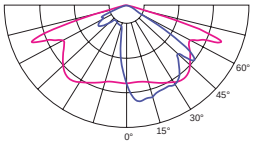
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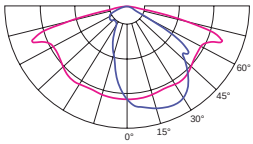
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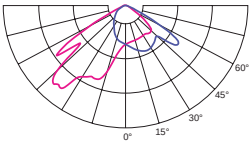
L82



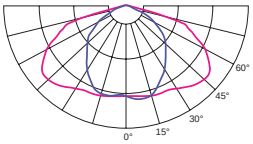
L83



L84

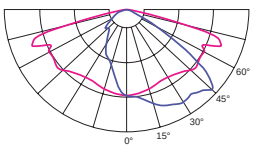


L85

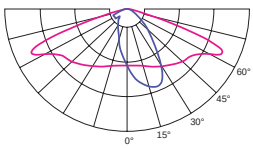


High density modules

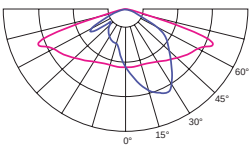
V01



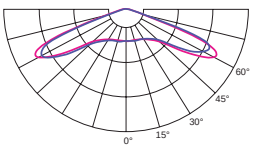
V04



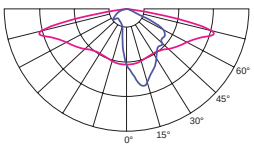
V05



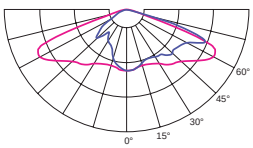
V20



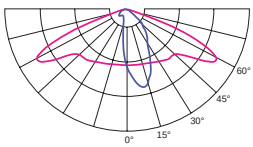
V22



V35



V57





Pedestrian crossing optics

IP66 IK09 RoHS PLUS (8 EPD (9

V	220 - 240
Hz	50 - 60
W	5 - 52 (1
	5 - 74 (2
lm	Up to 7 400 (1
	Up to 8 810 (2
lm/W	90 - 153 (1
	107 - 147 (2
K	2700 / 3000 / 4000 (3
°F	-40 up to +122 (4
°C	-40 up to +50 (4
CRI	>70 / >80 / >90 (3

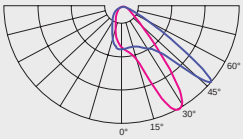
Body:	Die-cast aluminium
Dimming:	DALI / 1-10 V / Midnight dimming /
	Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	Eco 100 000 h (L90B10) at Ta = 77 °F / 25 °C*
	Standard 100 000 h (L98B10) at Ta = 77 °F / 25 °C*
Warranty:	5 years
Installation:	Pre-wired cable 11.8” / 30 cm (5
Spigot:	1.65” / 1.9” / 2.38” / 3” (6
	42 mm / 48 mm / 60 mm / 76 mm (6
Socket:	NEMA Top / Zhaga Top and Bottom
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	4 / 6 / 10 kV (7
Corrosion protection:	Up to C5
Neto weight:	Up to 9.3 lbs / 4.2 kg
Max. wind load area, SCd:	0.39 ft² / 0.036 m²

1) Standard modules, lumen output indicated at CRI > 70
2) Eco modules, lumen output indicated at CRI > 70
3) 1800 / 2200 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT
   Note! *Only fixtures with CCT of 3000 K or lower are DarkSky approved!*
4) Operating temperature differs depending on chosen output wattage
5) Other lengths available on request
6) Achievable with pole adapter from luminaire with ø 3” / 76 mm console to pole with ø 1.57” - 2.38” / 40 - 60 mm (on request)
7) 10 kV (L-N; L/N-PE) surge protection device available on request
8) Coming soon
9) EPD registration number: S-P-05886 (link to page)

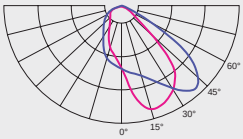
* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.
Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

Right side traffic

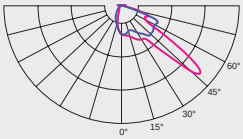
L11



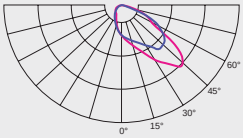
L11
ECO

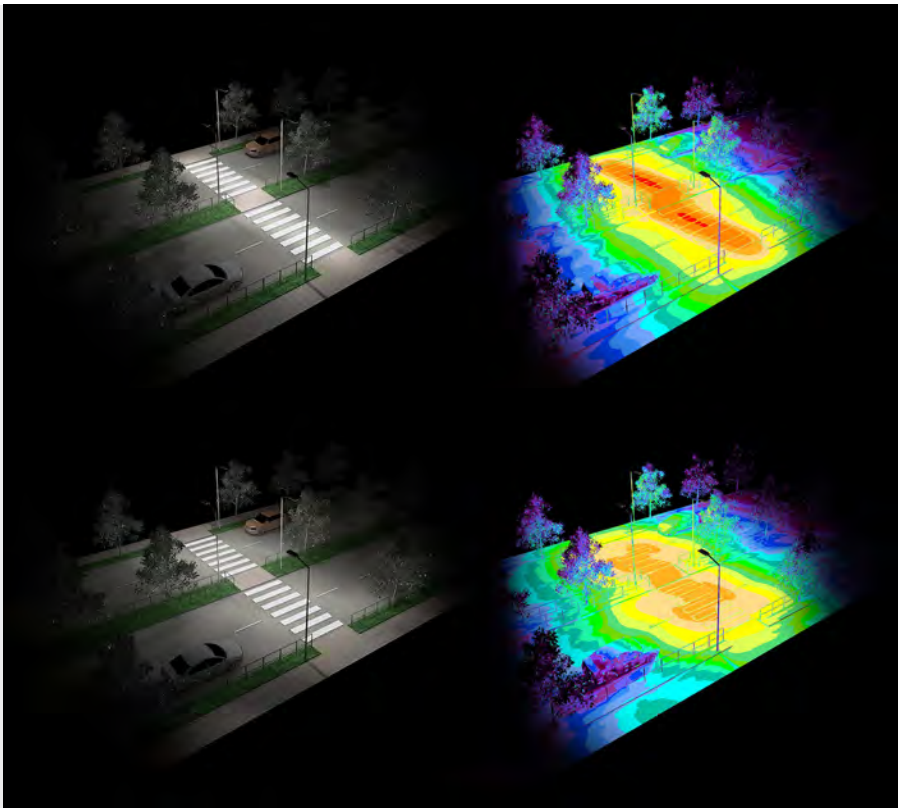


L36



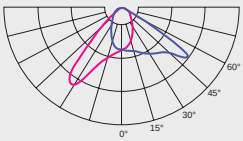
L36
ECO



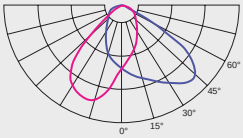


Left side traffic

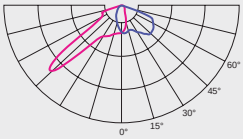
L12



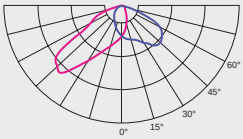
L12
ECO

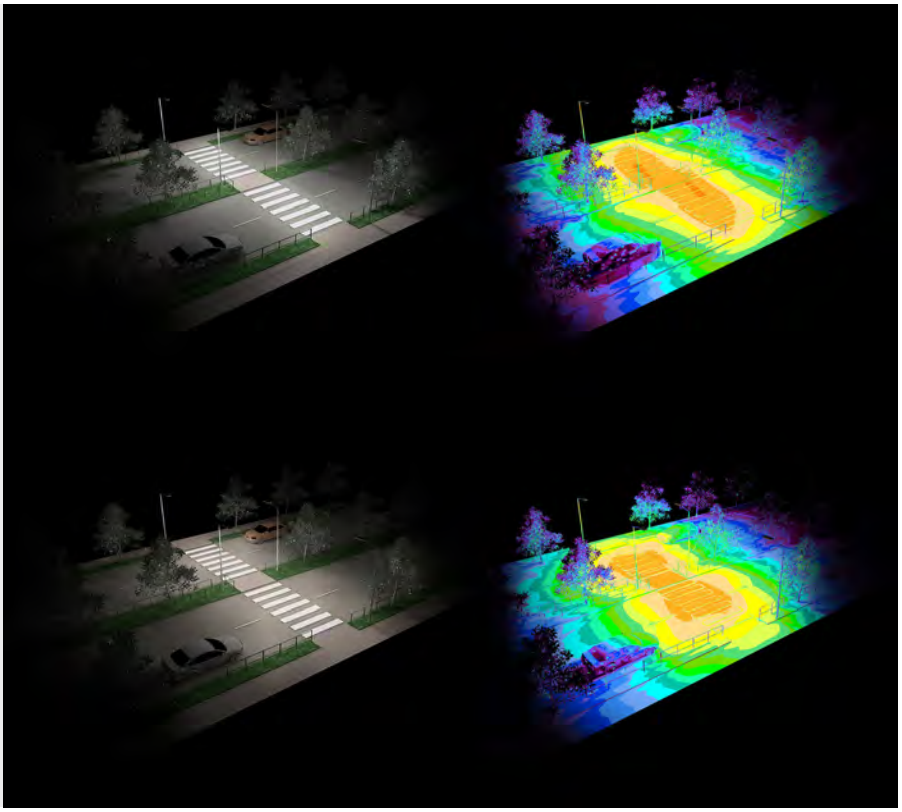


L46



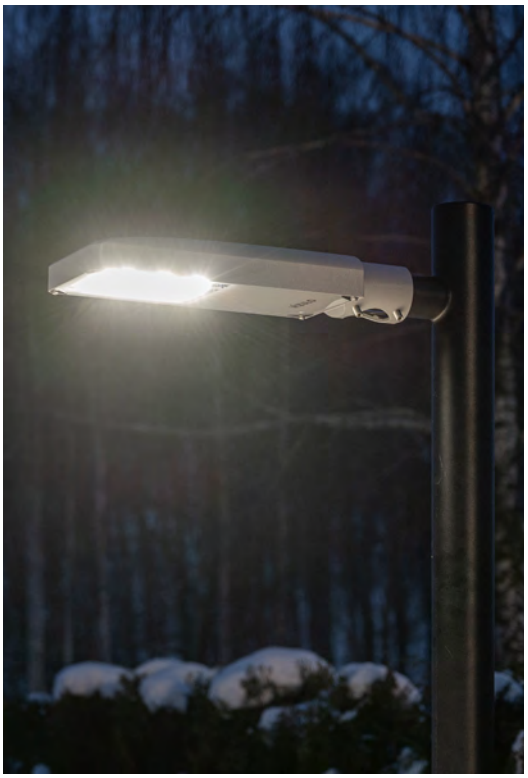
L46
ECO





Backlight cutter





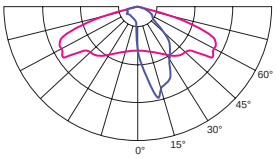
Backlight cutter | black
Art. 70000661

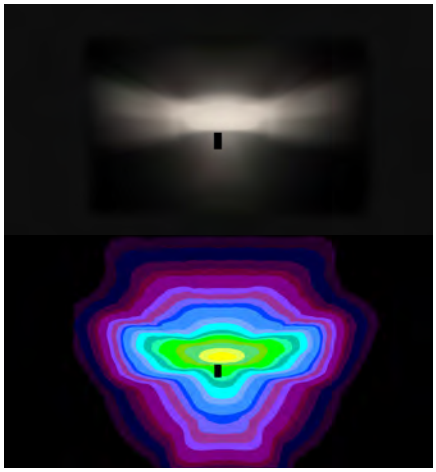
Backlight cutter | white
Art. 70000662



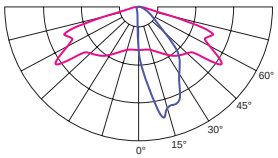
Optical loses from 10% to 31% depending from used optic.

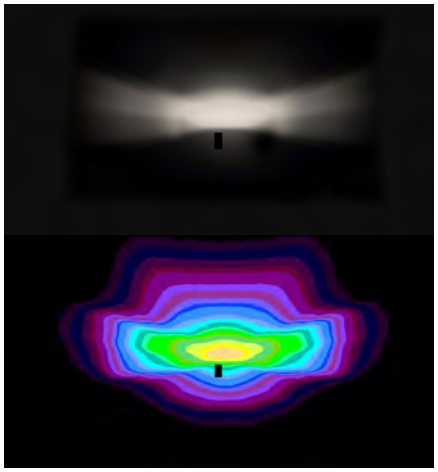
Without backlight cutter



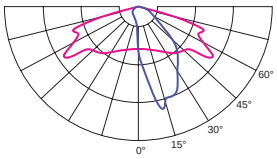


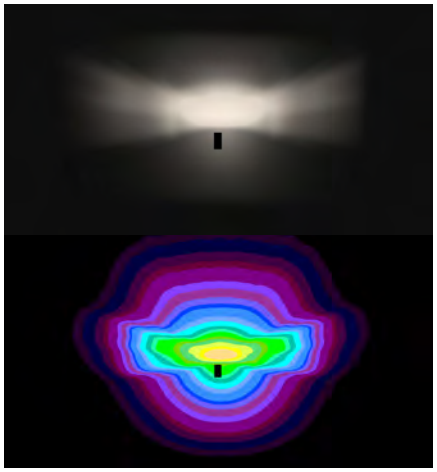
Backlight cutter | black





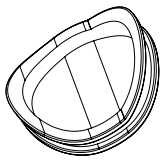
Backlight cutter | white





Accessories

Cover for bottom console opening ..... *Art. 70083001*



NEMA Socket

operating temperature up to 221 °F / 105 °C

2213362-3, 5 pin NEMA socket ..... *Art. 70000362*
2213362-4, 7 pin NEMA socket ..... *Art. 70000333*



Dummy Link for NEMA Socket ..... *Art. 70000113*



Zhaga Socket

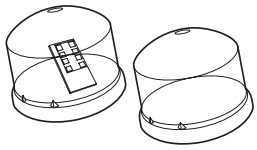
with cap ..... *Art. 70000613*
without cap ..... *Art. 70000612*



Luminaire controller for Zhaga-standard connectors

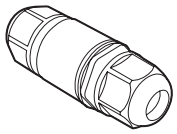
ø 3.15” / 80 mm

MSLC205RG controller with radar ..... *Art. 70010027*
MSLC205RGL controller ..... *Art. 70010029*



IP68 rated wire cable connector

2 wire cable connector ..... *Art. 70000676*
3 wire cable connector ..... *Art. 70000677*
4 wire cable connector ..... *Art. 70000725*
5 wire cable connector ..... *Art. 70000678*



Certification

CE – conformity with European Union's health, safety and environmental protection standards

The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).

UKCA - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.

RoHS – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.

Zhaga-D4i - compliance with the requirements of Zhaga Book 18 or 20 and DALI standard

The Zhaga-D4i Mark represents the fact that a product is certified following the Zhaga-D4i joint certification program – a program established by Zhaga and the DALI Alliance (DiiA). The Zhaga part of the Mark represents that a product meets the requirements of Zhaga Book 18 or 20 – Zhaga standards that describe a smart interface between outdoor luminaires and sensing/ communication nodes. The DALI Alliance part of the Mark signifies that the product conforms with the DALI standard for intelligent, IoT-ready luminaires.

ENEC - compliance with European standards for electrical equipment

The ENEC Mark is the high quality European Mark for electrical equipment. It is governed by the European Testing Inspection Certification System which ensures that the testing of products is conducted at ENEC – accredited laboratories, following additional requirements regarding the testing procedures. The ENEC Mark means that the testing procedure was followed scrupulously and that the consumer can be certain of the product's safety and quality.

ENEC+ - compliance with European standards for LED – based electronic products **[Coming soon]**

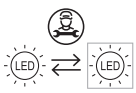
The ENEC+ Mark is the high quality European Mark for LED – based electronic products. It demonstrates the product's compliance with the IEC standards for performance of LED modules and LED based luminaires. The ENEC+ Mark can only be granted to a product that has already acquired the ENEC Mark.

DarkSky Approved - a DarkSky program seal of approval

DarkSky Approved certification is granted to outdoor lighting fixtures meeting the criteria outlined by DarkSky, an organization that aims to reduce light pollution, enabling clearer night skies and mitigating the impact on wildlife and human health. DarkSky Approved luminaires are shielded to cut off uplight, utilize energy-efficient light sources, and employ measures to limit glare. This certification reflects a dedication to responsible outdoor lighting, valued by communities, businesses, and individuals striving to protect nocturnal environments.

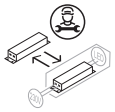
International EPD System – Environmental Product Declaration available

An Environmental Product Declaration (EPD) is a declaration of the materials, energy, transportation and other resources involved in the production, use and end-of life of a specific product. It is based on a Life Cycle Assessment (LCA) study that complies with standards EN ISO 14040 and EN ISO 14044. A product's EPD can help evaluate its impact on the environment and make sustainable choices.



LED module replaceable by a professional

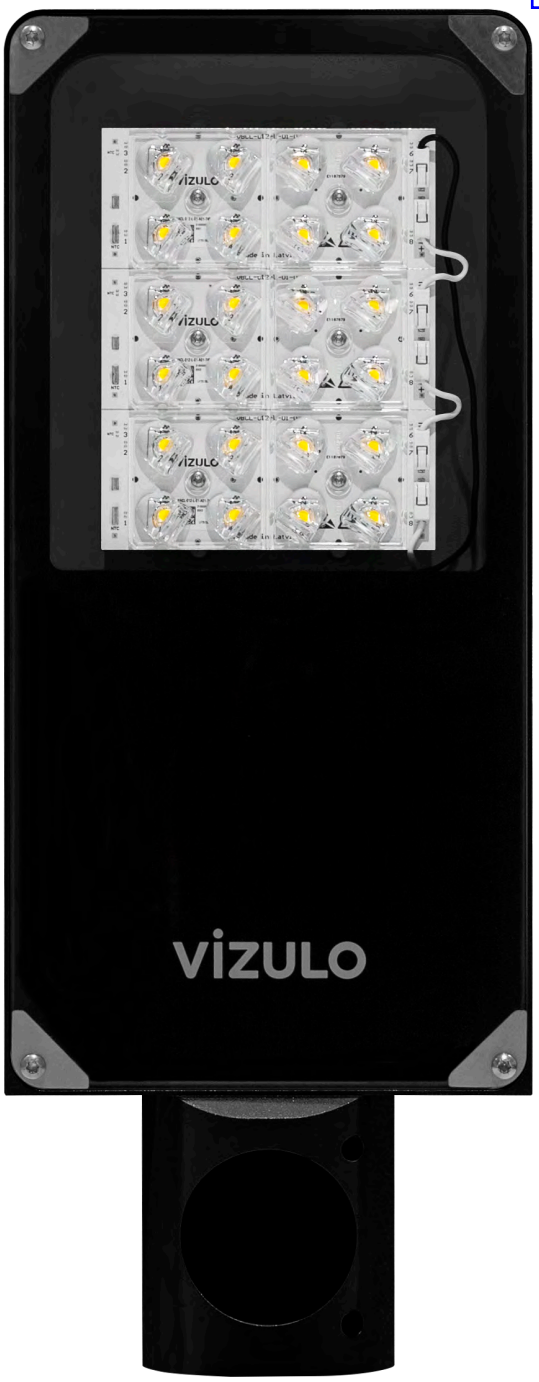
This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



LED driver replaceable by a professional

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

E02C





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www.vizulo.com

VIZULO

VIZULOSOLUTIONS

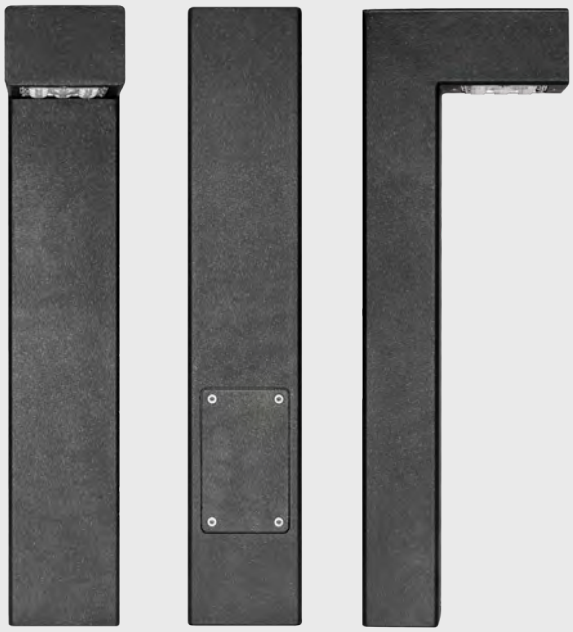
E03

VIZULO

Heron



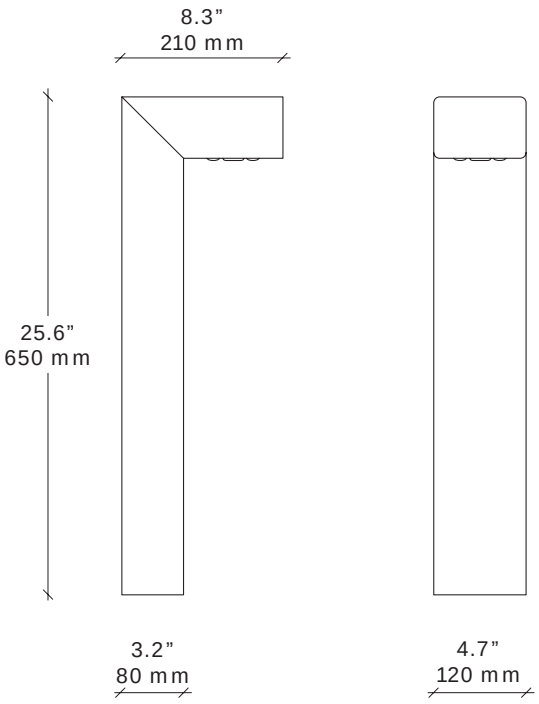
Heron 25.6” / 65 cm



powder coated
version



anodized
version



RAL9006

GALVANIZED

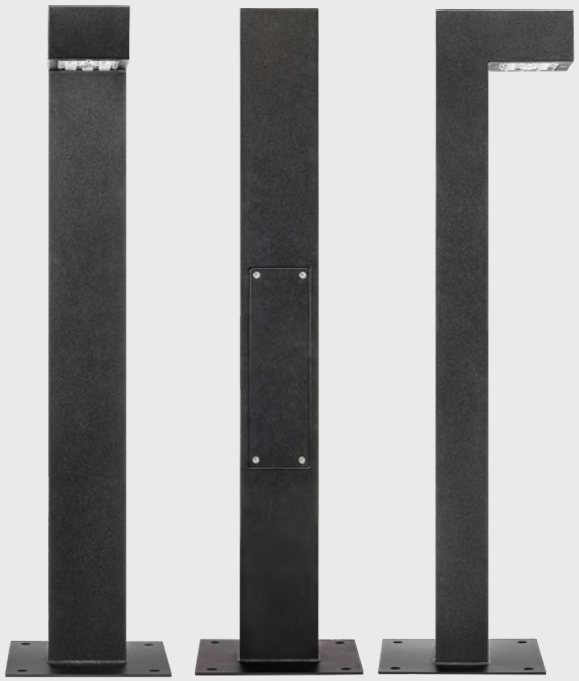
DB703

RAL9005

Other colors
available on request

E03

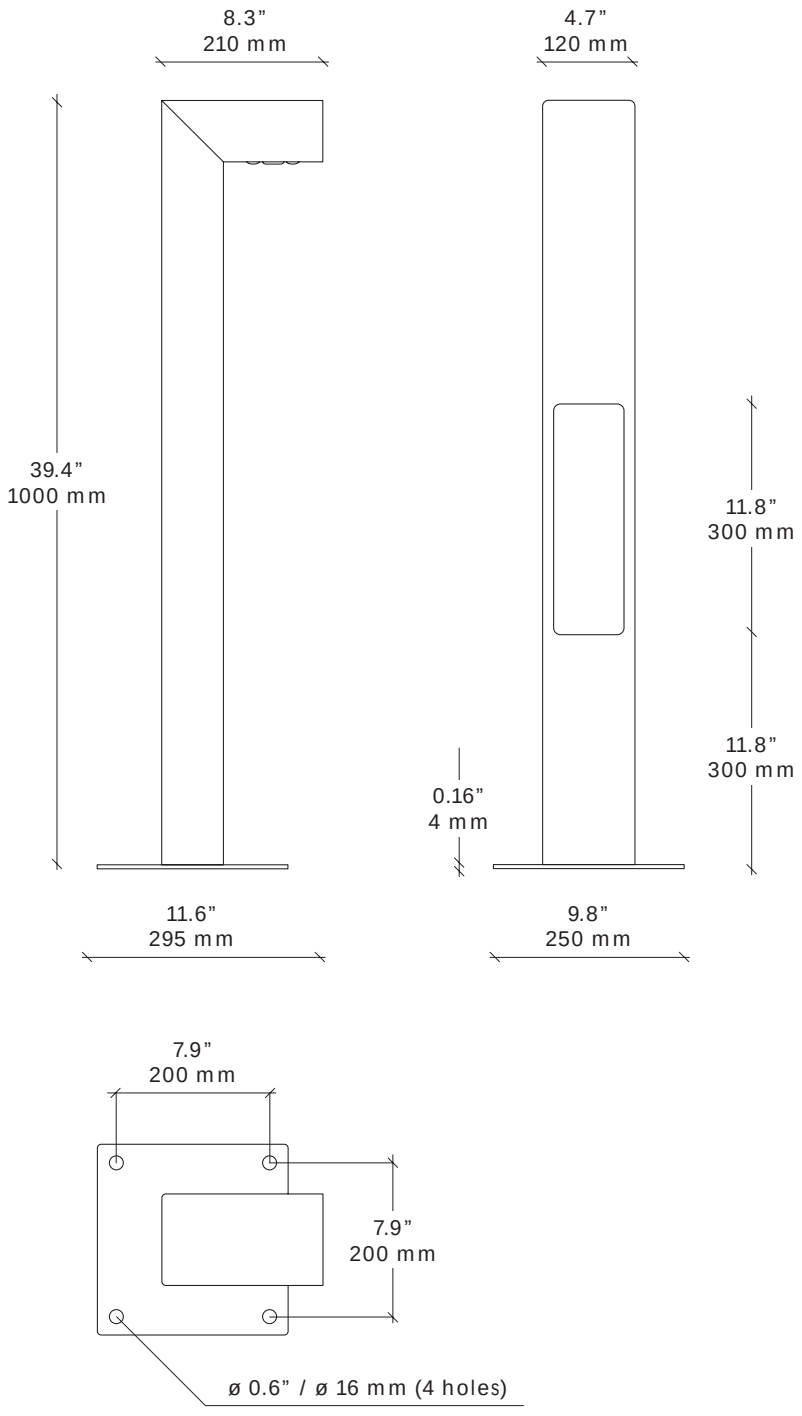
Heron 39.4” / 100 cm



powder coated
version



anodized
version



RAL9006

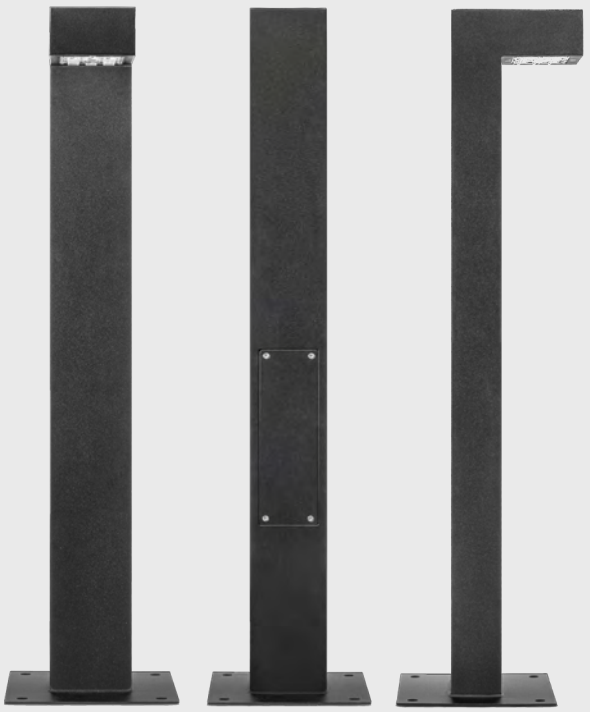
GALVANIZED

DB703

RAL9005

Other colors
available on request

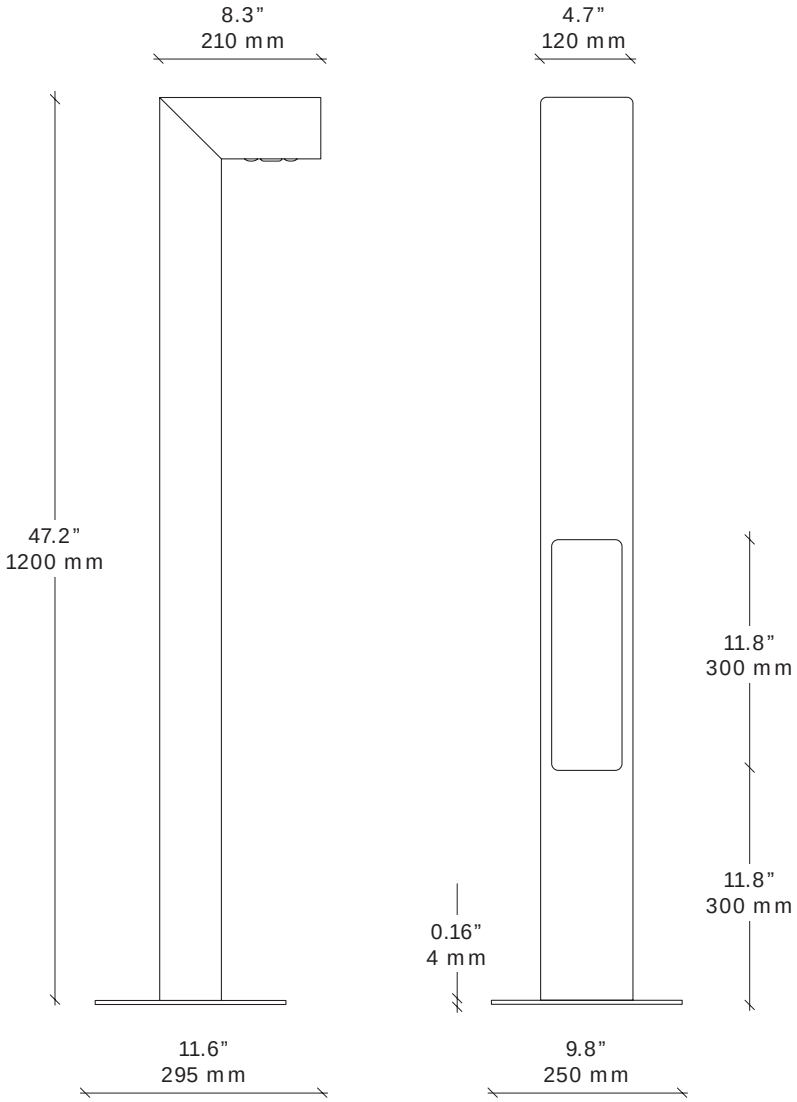
Heron 47.2” / 120 cm

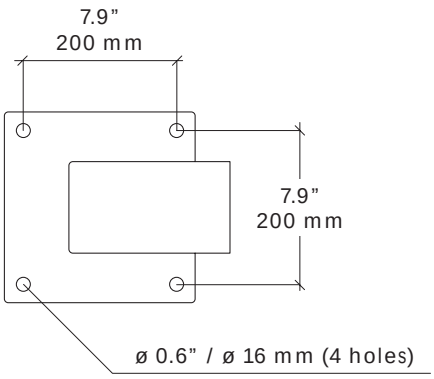


powder coated version



anodized version





RAL9006

GALVANIZED

DB703

RAL9005

Other colors
available on request

Technical information

V	220 - 240
Hz	50 - 60
W	8 - 26
lm	913 - 3350 [1]
lm/W	106 - 135
K	2700 / 3000 / 4000 [2]
°F	-40 to +104
°C	-40 to +40
CRI	>80 / >90 [2]

Body:	Extruded aluminium / Steel
Dimming:	DALI / Midnight dimming / Step dimming / Mains dimming
Initial chromaticity:	MacAdam 5
Lifetime:	100 000 h (L98B10) at Ta = 77 °F* / 25 °C*
Warranty:	5 years
Installation:	IP connector
Mounting:	On flange
Intelligent Control:	Stand-alone / Group / CMS
Sensor:	Motion / Motion + Daylight / Daylight
Surge protection:	1 / 2 / 4 / 10 kV [3]
Nature friendly:	PC Amber / Red / 1800 K
Corrosion protection:	Up to C5
Neto weight:	Up to 10.6 lbs / 4.8 kg [4] Up to 33.1 lbs / 15 kg [5]

[1] Lumen output indicated at CRI > 70

[2] 1800 / 2200 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

[3] 10 kV (L-N; L/N-PE) surge protection device available on request

[4] Aluminium version

[5] Galvanized (steel) version

* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes

Eco modules

* Data for L01 optic.

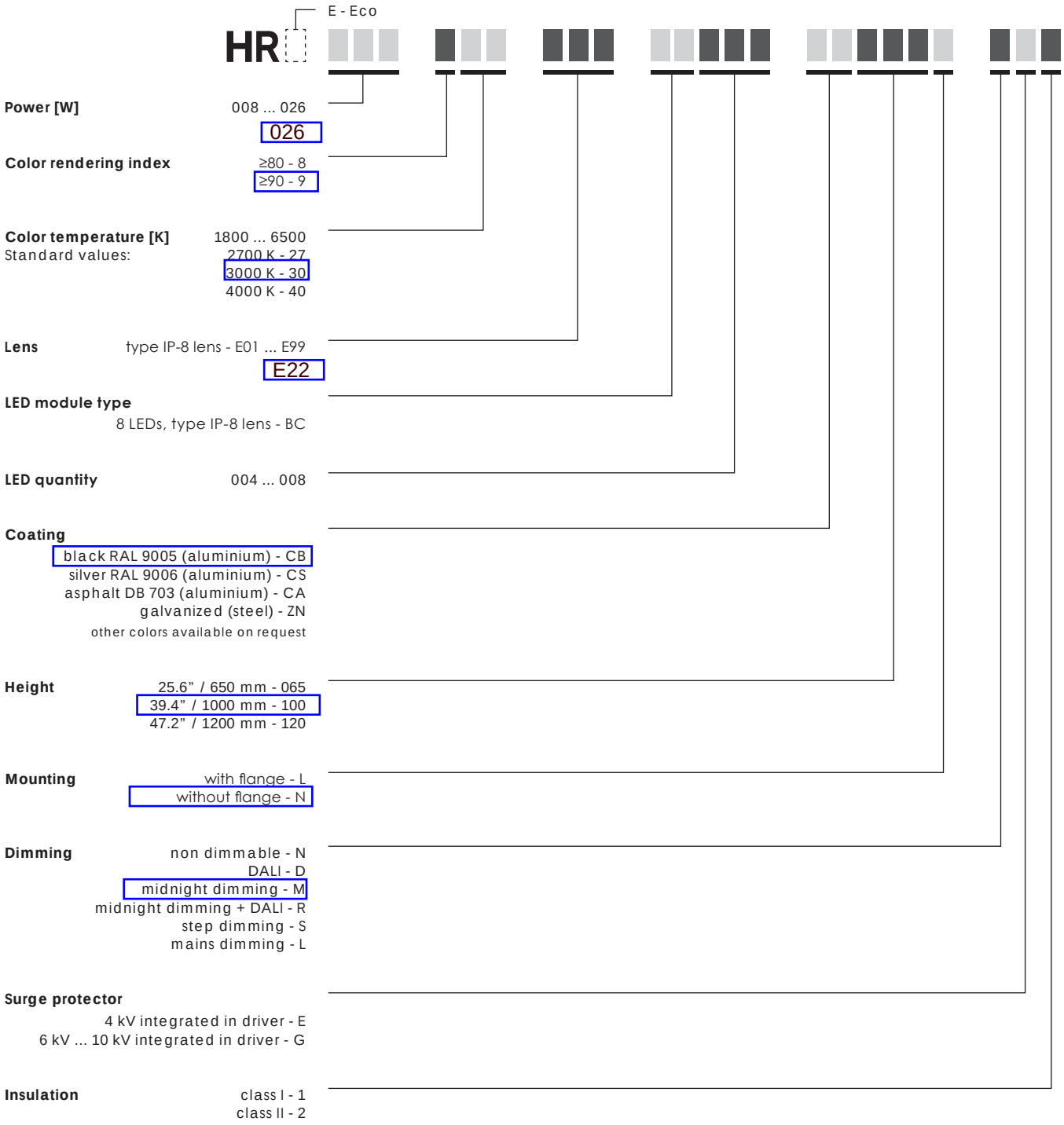
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		4			8	
Nominal current, mA	270	520	700	270	370	490
Power, W	8	15	20	15	20	26
Luminous Flux, lm	990	1780	2290	2020	2670	3350
Efficacy, lm/W	124	119	115	135	134	129
Power factor, PF		Up to 0.95			Up to 0.95	

Luminaire efficacy				
	2700 K	8 - 26 W	913 - 3090 lm	106 - 125 lm/W
	3000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5700 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W

Model name principles



EXAMPLE HRE 008 730 E93 BC004 CB100L NG2

LED modules

Type	Max module QTY	Min LED QTY per module	Max LED QTY per module	Max LED QTY per luminaire	LED step	LED type	Lens type	LED module
BC	1	4	8	8	2	Eco	type IP-8 E01...EZ9	

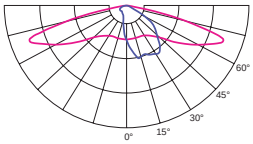
Cable core count

Socket	Dimming	Model number abbreviation	Input cable core count Class I	Input cable core count Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4
None	Step dimming	S	5 [1]	4 [1]
None	Mains dimming	L	3	2

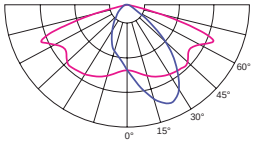
[1] 1 core unused

Optics

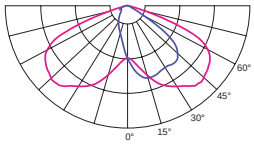
E22



E63



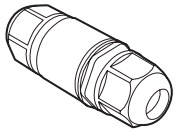
E93



Accessories

IP68 rated wire cable connector

2 wire cable connector ..... *Art. 70000676*
3 wire cable connector ..... *Art. 70000677*
4 wire cable connector ..... *Art. 70000725*
5 wire cable connector ..... *Art. 70000678*



Pre-installed cable sets
For internal power supply *

* Custom cable lengths available on request

Cable length [ft]	Cable length [m]	2 x 16 AWG/ 1.5 mm²	3 x 16 AWG/ 1.5 mm²	4 x 16 AWG/ 1.5 mm²	5 x 16 AWG/ 1.5 mm²
1.6	0.5	*Art. 70100184*	*Art. 70100179*	*Art. 70100402*	*Art. 70100409*
3.3	1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100220*
4.9	1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70100410*
6.6	2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70100262*
8.2	2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70100411*
9.8	3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70100217*
13.1	4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70100189*
16.4	5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70100185*
19.7	6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000370*
23.0	7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70100201*
26.3	8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70100212*
29.5	9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70100192*
32.8	10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000387*
36.1	11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000388*
39.4	12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70100200*
42.7	13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100412*
45.9	14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100165*
49.2	15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70100183*
65.6	20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70100413*
82.0	25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70100414*

Certification

CE – conformity with European Union's health, safety and environmental protection standards

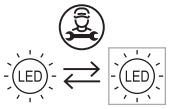
The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).

UKCA - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.

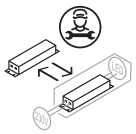
RoHS – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.



LED module replaceable by a professional

This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



LED driver replaceable by a professional

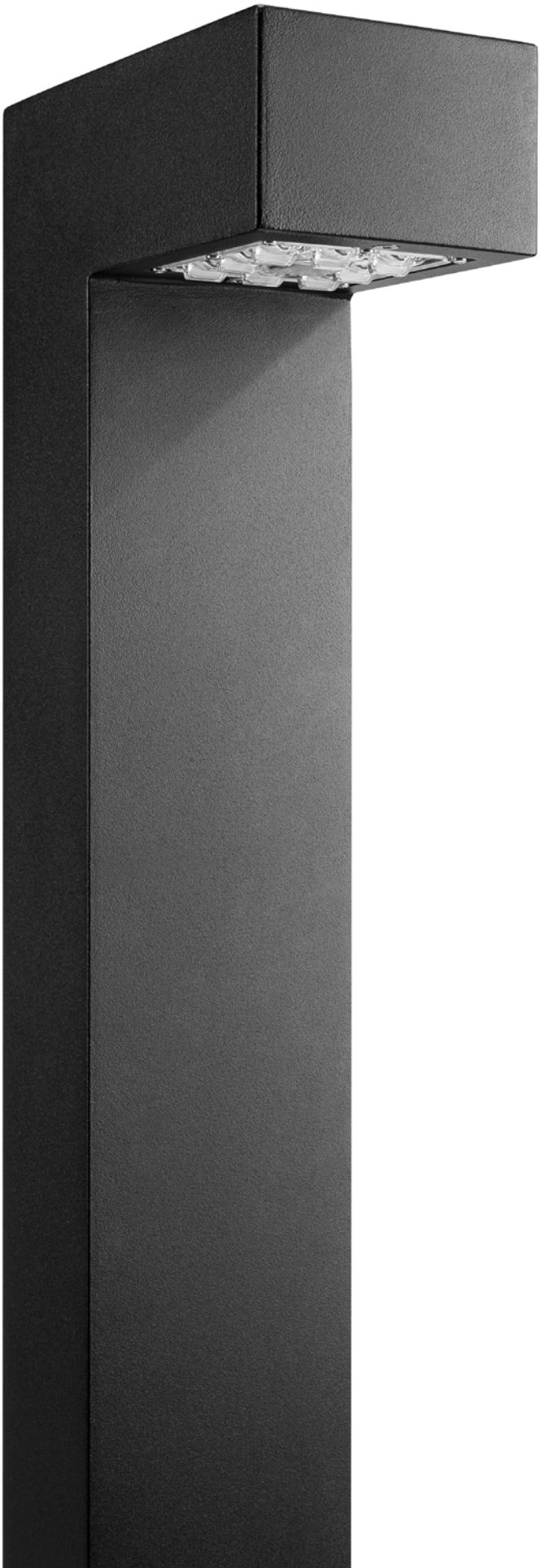
This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

References



↘
Heron,
Latvia

E03



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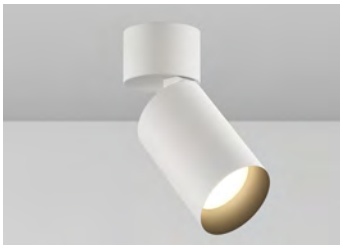
VIZULO

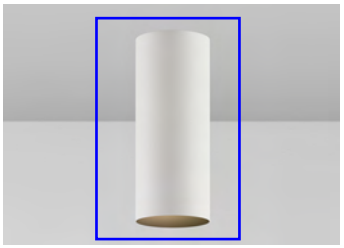
VIZULOSOLUTIONS

CYLINDER 1
SURFACE MOUNT

PROJECT NAME:	TYPE: E05

Our best-selling cylinders keep getting better. Adjustable, fixed, and wallwash are all offered in a broad range of sizes, with lumens from 500 to almost 5000lm, standard 90˚ tilt, and more than a dozen finish options. Now, there's a fixture for anywhere you need to illuminate anything.





ORDERING INFORMATION

JA8-2022 COMPLIANCE INDICATED BY SHADING

CYLINDER	FUNCTION	RATING	CYLINDER FINISH	BAFFLE FINISH	CRI	WATTAGE	CCT	OPTIC (UGR)	MEDIA	POWER SUPPLY	MOUNTING
CY1X											
CY1X 2.5" Ø	**AD** 90° Adjustable **AS** 90° Adjustable Shallow Canopy* *(Remote driver only) **AW** Adjustable Wallwash **FB** Fixed **WW** Wallwash Fixed	**1** Dry / Damp (IP30) **2** Wet (IP65)	**POWDERCOAT FINISHES** **WH** White **AG** Satin Silver **AU** Cashmere Gold **AB** Architectural Bronze **BB** Burnt Bronze **BK** Black **CF** Custom Finish* *(Consult Factory) **ALUMINA FINISHES** **01** Brushed Obsidian **02** Matte Obsidian **03** Brushed Dark Patinated Bronze **04** Matte Dark Patinated Bronze **05** Brushed Aged Aluminum **06** Matte Aged Aluminum **07** Brushed Cast Brass **08** Matte Cast Brass **09** Brushed Light Patinated Bronze **10** Matte Light Patinated Bronze **FINISH IMAGES ON PAGE 2** **ALUMINA NOT RECOMMENDED FOR EXTERIOR APPLICATIONS, FINISHES ARE NOT UV RATED**	**POWDERCOAT FINISHES** **WH** White **AG** Satin Silver **AU** Cashmere Gold **AB** Architectural Bronze **BB** Burnt Bronze **BK** Black **CF** Custom Finish* *(Consult Factory) **ALUMINA FINISHES** **01** Brushed Obsidian **02** Matte Obsidian **03** Brushed Dark Patinated Bronze **04** Matte Dark Patinated Bronze **05** Brushed Aged Aluminum **06** Matte Aged Aluminum **07** Brushed Cast Brass **08** Matte Cast Brass **09** Brushed Light Patinated Bronze **10** Matte Light Patinated Bronze **FINISH IMAGES ON PAGE 2**	**STATIC WHITE** **80S** **90S** **97S** **WARM DIM** **90L** **TUNABLE WHITE** **90T**	**STATIC WHITE** **11A** 11W, 952 Lm **17A** 17W, 1416 Lm **WARM DIM** **17A** 17W Incandescent Profile 1280 Lm Halogen Profile 1346 Lm *SEE PAGE 4 FOR DETAILED PERFORMANCE CONFIGURATIONS AND WARM DIM PROFILE COMPARISON. **TUNABLE WHITE (REMOTE DRIVER ONLY)** **17A** 17W Warm Profile 1291 Lm Cool Profile 1251 Lm *ALL DELIVERED LUMEN OUTPUTS AND T24 COMPLIANCE REFLECT 3000K PAIRED WITH 60° OPTIC AND SOFT FOCUSLENS.	**24** 2400K* *(90CRI only) **27** 2700K **30** 3000K **35** 3500K **40** 4000K **WL** 2700K - 1800K **WD** 3000K - 1800K **TR** 4000K - 1800K **TH** 5000K - 2700K	**10** 10°* (<16) *(17W only) **15** 15° (<16) **20** 20° (<10) **25** 25° (<10) **40** 40° (<10) **60** 60° (<16) **WW** Wallwash* *(Required for WW & AW fixture) *SEE PAGE 4 FOR UGR VALUES	**STANDARD MEDIA** **4** Soft Focus Lens (SFL)* *(Required for 10° optic) **ALTERNATE MEDIA** **0** No Lens* *(Not available for Wet Location) **2** Honey Comb Louver (HCL)* *(Not available for Wet Location) **3** Clear Glass Lens (CGL) **5** Frosted Glass Lens (FGL) **6** Frosted Soft Focus Lens (FSFL) **7** Frosted Linear Spread Lens (FLSL) **C** Clear Glass Film w/ Honeycomb Louver **S** Soft Focus Film w/ Honeycomb Louver **W** Wallwash Lens* *(Required for WW and AW fixture)	**INTEGRAL** **UCA** 0-10V Analog 120-277V, LIN **1CE** 120V Electronic Forward/Reverse **REMOTE (120V)** **1TR** Philips, 2% Forward / Reverse **1RE** Forward / Reverse **REMOTE (120-277V)** **URA** 0-10V Analog, LIN **ULH** Lutron Hi-Lume Ecosystem 1% Fade to Black **UAN** Philips Xitanium 1% 0-10V, LOG **ULN** Philips Xitanium 1% 0-10V, LIN **UEG** eldoLED, 0.1% 0-10V, LOG **UEN** eldoLED, 0.1% 0-10V, LIN **UED** eldoLED, 0.1% DALI-2, LOG **ULD** eldoLED, 0.1% DALI-2, LIN **UAS1/** Athena Control **UASR** EldoLED, 0.1% 120-277V* **UCS1/**Casambi Control **UCSR** EldoLED, 0.1% 120-277V* *(Includes Node. Extended lead time, consult factory. UASR/UCSR includes shunt.) **TUNABLE WHITE REMOTE (0.1%, 120-277V)** **UDD** eldoLED, DUALdrive DALI-2 DT6, LOG **UDG** eldoLED, DUALdrive 0-10V, LOG **UDN** eldoLED, DUALdrive 0-10V, LIN **UAD1/** Athena Control, **UADR** EldoLED, DUALdrive* **UCD1/** Casambi Control, **UCDR** EldoLED, DUALdrive* *(Includes Node. Extended lead time, consult factory. UADR/UCDR includes shunt.)	**ROUGH-IN** **JBMP** 4" Sq. or 4/0 Junction Box Mounting Plate **FINISH OUT** **CMJB** * 1/2" and 3/4" Conduit Ceiling Mount Junction Box* *(Available in powdercoat finishes. Alumina finish fixtures ship with Black powdercoat CMJB. Dry/Damp rated.) **SMK3** 3/0 Surface Mount Kit* **SMK4** 4/0 Surface Mount Kit* *(Available in powdercoat finishes. Dry/Damp rated.)

PART NUMBER NOTES

- CY1X ships as e.g.,CY1XAD1WHWH80S17A304041CE3
- Remote driver ships as e.g., PS-RMT-80S17A-1RE3
- Mounting part numbers listed on page 6

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As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

[PH] +1-210-227-7329
[FAX] +1-210-227-4967

CYLINDER 1 SURFACE MOUNT

ACCESSORIES

REPLACEMENT MEDIA - INCLUDES LENS RETAINER
Dry / Damp location only, consult factory for wet location replacements

- ☐ **SFL-CY1X-01** Soft Focus Lens
- ☐ **HCL-CY1X-01** Honeycomb Louver
- ☐ **CGL-CY1X-01** Clear Glass Lens
- ☐ **FGL-CY1X-01** Frosted Glass Lens
- ☐ **FSFL-CY1X-01** Frosted Soft Focus Lens
- ☐ **FLSL-CY1X-01** Frosted Linear Spread Lens
- ☐ **CGL-HCL-CY1X-01** Clear Glass Film W/ Honeycomb Louver
- ☐ **SFL-HCL-CY1X-01** Soft Focus Film W/ Honeycomb Louver

STATIC WHITE REPLACEMENT OPTICS

- ☐ **RO-50-15-S** 15° optic
- ☐ **RO-50-20-S** 20° optic
- ☐ **RO-50-25-S** 25° optic
- ☐ **RO-50-40-S** 40° optic
- ☐ **RO-50-60-S** 60° optic

WARM DIM REPLACEMENT OPTICS

- ☐ **RO-50-20-W** 20° optic
- ☐ **RO-50-25-W** 25° optic
- ☐ **RO-50-40-W** 40° optic
- ☐ **RO-50-60-W** 60° optic

TUNABLE WHITE REPLACEMENT OPTICS

- ☐ **RO-50-15-T** 15° optic
- ☐ **RO-50-20-T** 20° optic
- ☐ **RO-50-25-T** 25° optic
- ☐ **RO-50-40-T** 40° optic
- ☐ **RO-50-60-T** 60° optic

SUCTION CUP TOOL

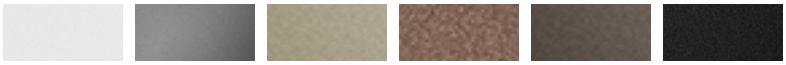
- ☐ **CYX-TOOL-SUCTION** Baffle removal tool, provided with every 5 fixtures

EMERGENCY LIGHTING - REMOTE MOUNT ONLY
During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

- ☐ **EMB-S-25-120/277-LEDX** 25 watt max capacity, 120 or 277 VAC 60Hz
- ☐ **EMB-S-100-120-LEDX** 100 watt max capacity, 120 VAC 60Hz, 0-10V dimmable
- ☐ **EMB-S-100-277-LEDX** 100 watt max capacity, 277 VAC 60Hz, 0-10V dimmable
- ☐ **EMB-S-250-120/277-LEDX** 250 watt max capacity, 120 or 277 VAC 60Hz

***SHUNT REQUIRED FOR USE WITH ATHENA AND CASAMBI CONTROLS, CONSULT FACTORY FOR DETAILS.**

POWDERCOAT FINISHES



(WH) White Powder Coat | (AG) Satin Silver Powder Coat | (AU) Cashmere Gold Powder Coat | (AB) Architectural Bronze Powder Coat | (BB) Burnt Bronze Powder Coat | (BK) Black Powder Coat

ALUMINA FINISHES BY LUCIFER LIGHTING™



(01) Brushed Obsidian | (03) Brushed Dark Patinated Bronze | (05) Brushed Aged Aluminum | (07) Brushed Cast Brass | (09) Brushed Light Patinated Bronze



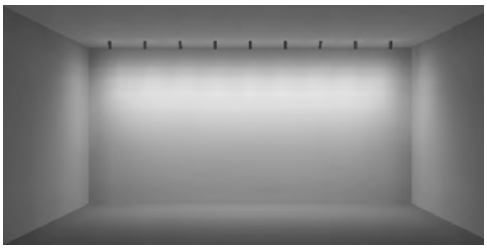
(02) Matte Obsidian | (04) Matte Dark Patinated Bronze | (06) Matte Aged Aluminum | (08) Matte Cast Brass | (10) Matte Light Patinated Bronze

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[DATE OF REV: 05072025]

CYLINDER 1 SURFACE MOUNT

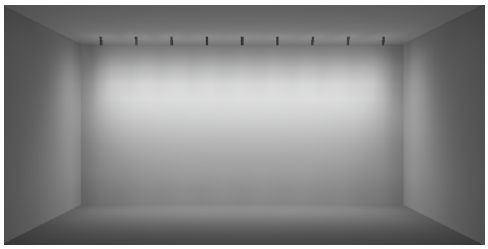
WALLWASH DESIGN GUIDE



10˚ TILT

30" SETBACK / 30" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 24.45
- MAX / MIN: 4.85
- 9 FIXTURES / 25FT WALL SHOWN

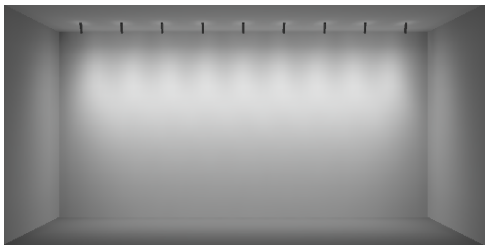


RECOMMENDED

15˚ TILT

36" SETBACK / 36" ON CENTER SPACING

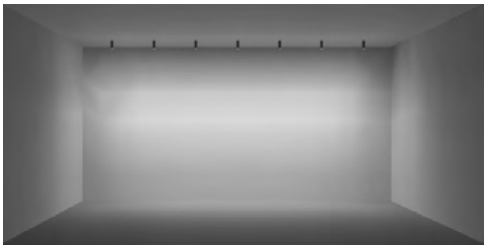
- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 21.75
- MAX / MIN: 4.35
- 9 FIXTURES / 30FT WALL SHOWN



20˚ TILT

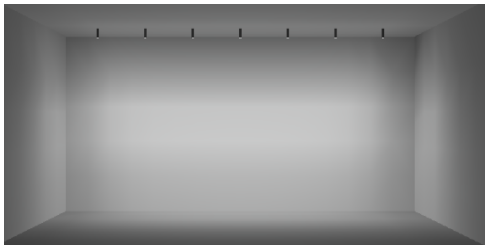
42" SETBACK / 42" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 19.68
- MAX / MIN: 4.03
- 9 FIXTURES / 35FT WALL SHOWN



42" SETBACK / 30" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 23.46
- MAX / MIN: 4.88
- 9 FIXTURES / 25FT WALL SHOWN



RECOMMENDED

48" SETBACK / 36" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 18.62
- MAX / MIN: 4.76
- 9 FIXTURES / 30FT WALL SHOWN



54" SETBACK / 42" ON CENTER SPACING

- 10FT CEILING SHOWN / 8-12FT IDEAL
- AVERAGE FC: 15.07
- MAX / MIN: 4.90
- 9 FIXTURES / 35FT WALL SHOWN

ADDITIONAL SETBACKS AND SPACINGS

ON CENTER SPACING	SETBACK / TILT		
	30" / 10˚	36" / 15˚	42" / 20˚
30"	SHOWN ABOVE	AVERAGE FC: 25.42 MAX / MIN: 4.36	AVERAGE FC: 26.36 MAX / MIN: 4.14
36"	AVERAGE FC: 20.87 MAX / MIN: 4.97	SHOWN ABOVE	AVERAGE FC: 22.56 MAX / MIN: 4.08
42"	AVERAGE FC: 18.21 MAX / MIN: 5.17	AVERAGE FC: 18.94 MAX / MIN: 4.39	SHOWN ABOVE

ON CENTER SPACING	SETBACK		
	30"	36"	42"
42"	SHOWN ABOVE	AVERAGE FC: 20.84 MAX / MIN: 4.90	AVERAGE FC: 18.65 MAX / MIN: 5.04
48"	AVERAGE FC: 20.74 MAX / MIN: 4.66	SHOWN ABOVE	AVERAGE FC: 16.64 MAX / MIN: 5.04
54"	AVERAGE FC: 18.75 MAX / MIN: 4.75	AVERAGE FC: 16.82 MAX / MIN: 4.68	SHOWN ABOVE

***ALL DATA REFLECTS 17A WATTAGE PACKAGE**

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CYLINDER 1 SURFACE MOUNT

STATIC WHITE PERFORMANCE - 3000K

LUMEN PACKAGE	WATTS	10° OPTIC FIELD REDUCER		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS		WALLWASH WALLWASH LENS		ADJ. WALLWASH WALLWASH LENS	
		DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW
80S11A	11	-	-	891	76	1080	98	1088	98	1002	91	1104	100	1160	105	908	82
80S17A/C	17	587	35	1451	73	1623	95	1624	95	1495	88	1643	96	1776	104	1357	79
90S11A	11	-	-	846	76	931	84	938	85	864	78	952	86	1000	90	783	71
90S17A/C	17	506	28	1251	73	1399	82	1400	82	1291	75	1416	83	1531	90	1170	68
97S11A	11	-	-	744	67	819	74	825	75	760	69	838	76	880	80	689	62
97S17A/C	17	437	26	1101	64	1231	72	1232	72	1136	66	1246	73	1347	79	1030	60
90L17AL (2700K-1800K)	18	-	-	1125	66	1262	74	1241	73	1154	68	1280	75	1186	70	687	62
90L17AD (3000K-1800K)	18	-	-	1148	68	1283	75	1284	76	1184	70	1299	76	1405	83	1073	63
90T17ATR (4000K-1800K)	17	-	-	1112	65	1230	72	1234	72	1157	68	1291	75	1192	70	994	58
90T17ATH (5000K-2700K)	17	-	-	1100	64	1213	71	1215	71	1174	69	1251	73	1178	69	982	57

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.76
2700K	0.957
3000K	1.000
3500K	1.019
4000K	1.030

MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
No Lens	1.07
CGL	0.99
SFL	1.00
FGL	0.90
FSFL	0.84
FLSL	0.85
HCL	0.68
SFL+HCL	0.63

TUNABLE WHITE MULTIPLIER

CCT	5000K-2700K	4000K-1800K
5000K	1.16	-
4000K	1.08	1.14
3500K	1.04	1.07
3000K	1.00	1.00
2700K	0.96	0.92
2400K	-	0.84
1800K	-	0.69

JA8-2022 INDICATED BY SHADING

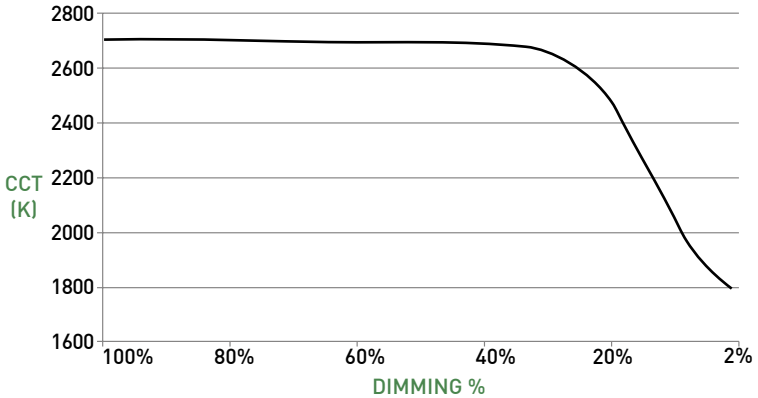
UNIFIED GLARE RATING

10° OPTIC FIELD REDUCER	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS	WALLWASH WALLWASH LENS
<16	<16	<10	<10	<10	<16	>19

WARM DIM PERFORMANCE - SOFT FOCUS LENS - 60° OPTIC

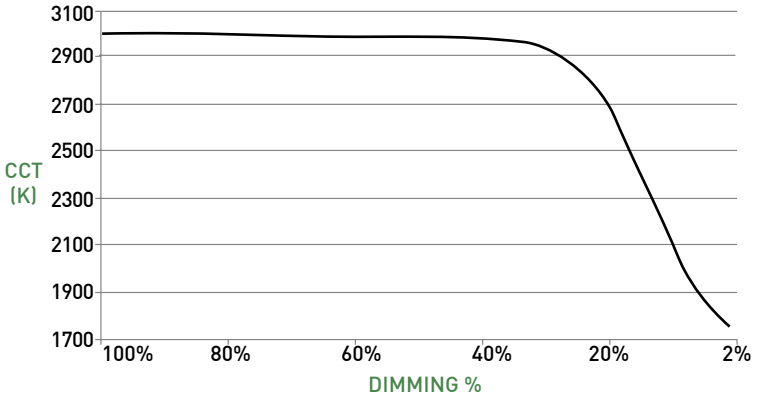
INCANDESCENT PROFILE

17AL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2500K	1950K	1800K
Light Output (Lm)	1280	1024	896	640	256	128	26
Power (W)	17	13.6	11.9	8.5	3.4	1.7	0.3
Efficacy (LPW)	66	66	66	66	66	66	66



HALOGEN PROFILE

17AD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	2150K	1800K
Light Output (Lm)	1299	1039	909	650	260	130	26
Power (W)	17	13.6	11.9	8.5	3.4	1.7	0.3
Efficacy (LPW)	68	68	68	68	68	68	68



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

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CYLINDER 1 SURFACE MOUNT

CYLINDER ASSEMBLY

A ADJUSTABLE - STANDARD CANOPY
Die-cast canopy accommodates flat and sloped ceiling conditions. Conceals hidden mounting hardware. "AD" (90° tilt, 365° rotation) canopy features 1.76" (45mm) tall canopy. Available with integral or remote driver.

B ADJUSTABLE - SHALLOW CANOPY
Die-cast canopy accommodates flat and slope ceiling conditions. Conceals hidden mounting hardware. "AS" (90° tilt, 365° rotation) canopy features 0.65" (17mm) tall canopy, reducing overall height. Requires remote power supply.

C FIXED BODY
Body with integrated heat sink and LED. Conceals mounting hardware. Power supply may be integral or remote mount.

D WALLWASH FIXED BODY

E1 OPTICS
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

E2 10° FIELD REDUCER
Soft Focus Lens, Honeycomb Louver, and Field Reducer provided with 10 degree beam selection. Reduces field angle by 10%

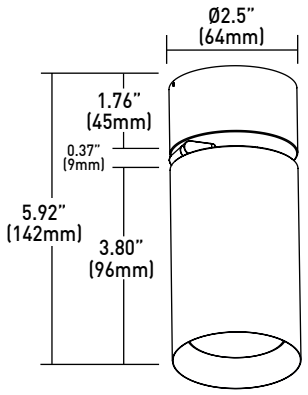
F MEDIA
Cylinder accepts two lenses; soft focus lens, no lens, or wallwash lens standard. Sealed in place for Wet locations.

G BAFFLE
Die-cast baffle minimizes aperture glare and conceals view into fixture.

H WALL-MOUNT
Cylinder may be wall mounted using any mounting option.

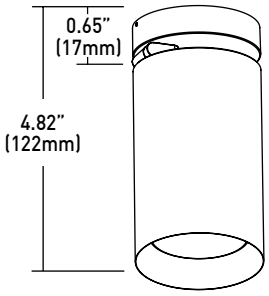
DIMENSIONS / DRAWINGS

A ADJUSTABLE BODY STANDARD CANOPY

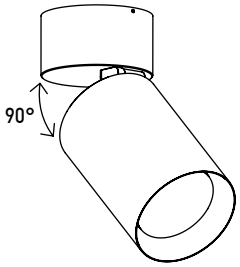


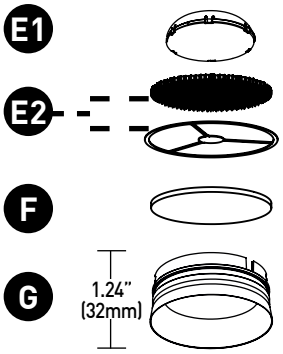
Cylinder weight
0.90 lbs

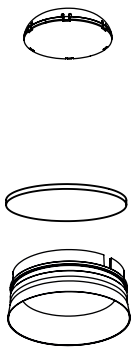
B ADJUSTABLE BODY SHALLOW CANOPY

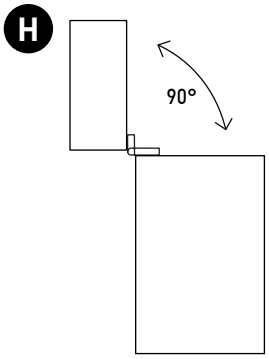


Cylinder weight
0.85 lbs

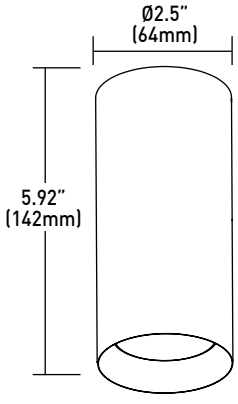




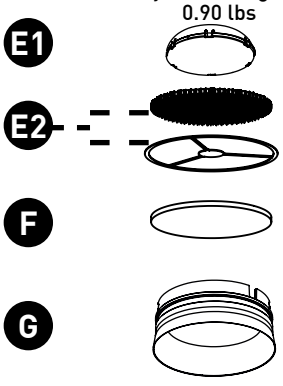




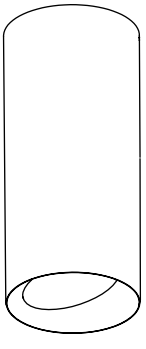
C FIXED BODY



Cylinder weight
0.90 lbs



D WALLWASH FIXED BODY



Cylinder weight
0.90 lbs



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CYLINDER 1 SURFACE MOUNT

MOUNTING

I JBMP
Mounting plate (concealed) for standard 4" square or 4" 4/0 j-box . To be installed during rough-in, prior to substrate, for ceiling thicknesses up to 0.75". Fixture to mount flush with minimalist transition to ceiling.

Part Number - CY1X-JBMP

J SMK3
Surface mount kit includes mounting plate and 4" concealer plate that installs between fixture and standard 3" 3/0 j-box for existing applications where standard j-box cutout is to be concealed.

Part Number - CY1X-SMK-3/0-(FINISH)

K SMK4
Surface mount kit includes mounting plate and 5" concealer plate that installs between fixture and standard 4" 4/0 j-box for existing applications where standard j-box cutout is to be concealed.

Part Number - CY1X-SMK-4/0-(FINISH)

L CMJB
Ceiling mount junction box perfectly matches the cylinder profile for a continuous, integrated look where exposed ceiling mount junction box and conduit applications apply. For use with 1/2" and 3/4" EMT conduit only. Features two conduit entrances on either side and one conduit knockout on top of j-box. J-box is IP10 rated; painted finishes only. Blank off plugs included.

Part Number - CY1X-CMJB-(FINISH)

MOUNTING NOTES

- CY1X-JBMP and CY1X-SMK-3/0 & 4/0 not recommended for use with pancake style j-box.
- Fixtures are surface mount and must have access to free air. For applications involving slat ceilings or confined mounting, consult Comprehensive Install Guide for required clearances for proper air flow and servicing.

REMOTE POWER SUPPLY

M PS-RMT
Remote power supply must be mounted in accessible area. Mounting device still required. Consult page 8 for dimming compatibility list. Consult install guide for complete details of suitable controls, wiring diagrams, and maximum allowable secondary run lengths between PS-RMT and cylinder.

N ATHENA / CASAMBI CONTROL
Controls integrated into remote driver assembly. All equipment is serviceable.

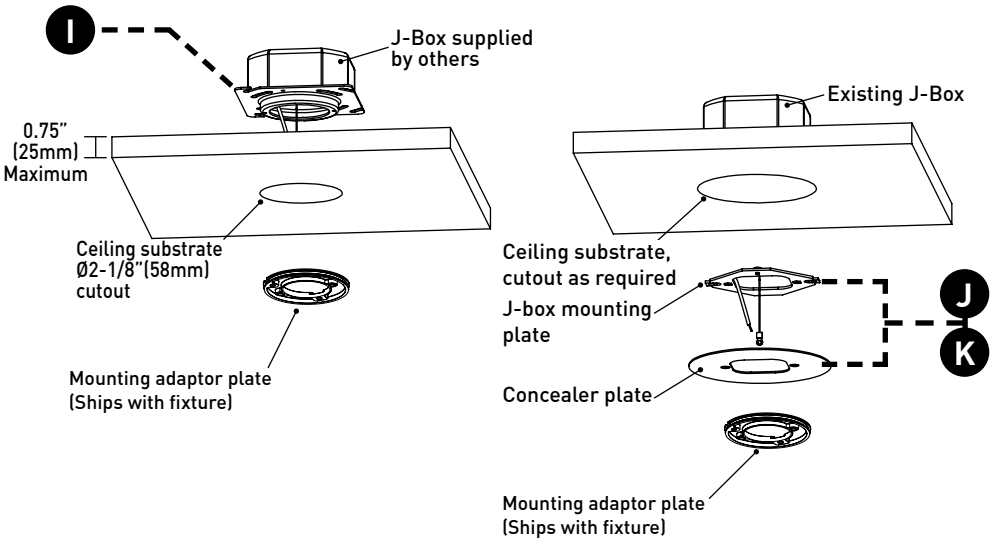
Athena Model Number: A-WN-D01-RF-BL & DC-OEM-DBI

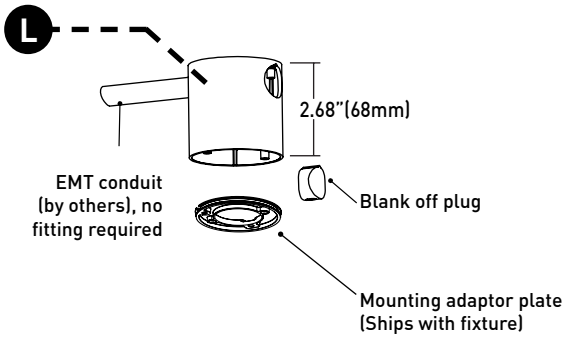
Casambi Model Number: BT-S1E1-5400

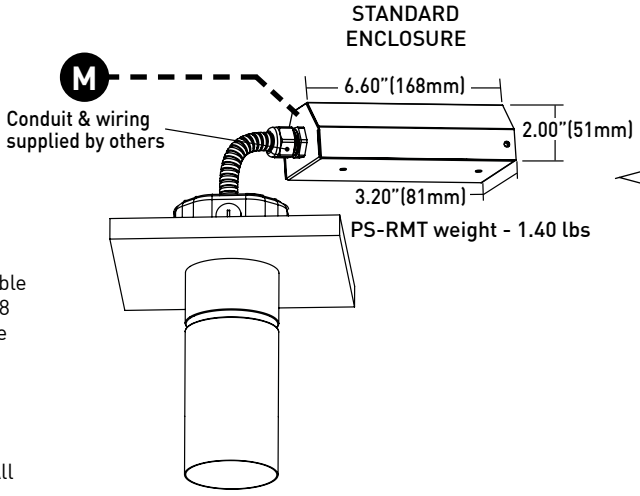
O ATHENA / CASAMBI EM SHUNT
Inlcuded with drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt. Features integrated test switch.

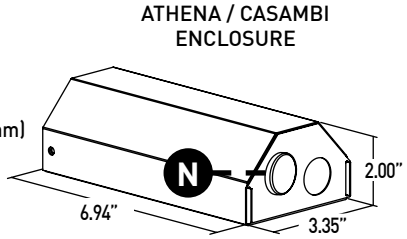
Model Number: PS-RMT-SHUNT

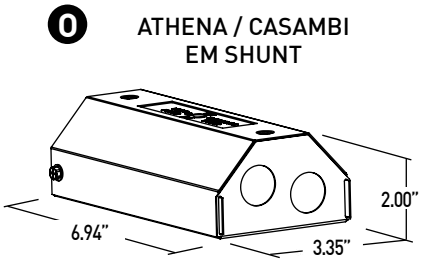
DIMENSIONS / DRAWINGS

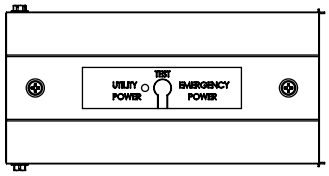












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CYLINDER 1 SURFACE MOUNT

TECHNICAL

CONSTRUCTION
Cylinder: Die-cast aluminum body with integrated heat sink; painted finishes are granulated powder coat. Alumina finishes are anodized aluminum.
CMJB: Die-cast aluminum body; painted finishes are granulated powder coat.
Remote Power Supply: 22 Gauge galvanized steel.

STATIC WHITE LED
2-step MacAdam ellipse LED module available in 80+, 90+ and 95+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K.
3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temprtature of 2400K. Average rated lamp life: 50,000 hours. LED and driver assemblies are field-replaceable.

WARM DIM LED
3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

TUNABLE WHITE LED
3-Step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K and 1800K to 4000K. Average rated lamp life of 50,000 hours. Driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE		0-10V							ECO	DALI			ATHENA	CASAMBI
Power Supply	1CE/1RE	1TR	UCA/URA	UAN	ULN	UEG	UEN	UDG	UDN	ULH	UED	ULD	UDD	UAS/UAD	UCS/UCD
Minimum °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	0 °C	-20 °C	-20 °C	-20 °C	0 °C	-20 °C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	1.0%	2.0%	1.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For 1TR, ULH, UAN, ULN, UEG and UEN drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG				
DRIVER	12	14	16	18	20
URA, 1RE	-	164'	105'	66'	40'
1TR, UAN, ULN	285'	180'	113'	71'	45'
ULH	60'	40'	25'	15'	-
UEG, UEN, UED, ULD, DD1, DG1, DN1, UAS, UCS, UAD, UCD	-	-	118'	72	46'

FIXTURE SPACING
Recommended fixture on-center spacing is 12" (305mm) at minimum. In slat ceiling applications, fixture must have 0.5" (13mm) minimum clearance on no more than two sides. Recessed conditions require 1.5" (38mm) setbacks on all sides.

WALLWASH SPACING AND TILT
Adjustable Wallwash Cylinder must be tilted to achieve wallwashing effect. Recommended adjustable spacing is 36" (914mm) on center with 36" (914mm) setback from wall plane with 15° tilt. Recommended fixed spacing is 36" (914mm) on center spacing with 48" (1219mm) setback from wall plane.

MOUNTING
Cylinder is supplied with a mounting adaptor plate, which integrates with required additional mounting accessories specified separately according to field application conditions, providing a minimalist transition from standard 4/0 or 4" square junction boxes and accommodating ceiling thicknesses of 0.44" (12mm) to 0.75" (19mm). Ceiling-mount junction box available for 1/2" (13mm) and 3/4" (19mm) conduit and feature concealed internal clamps for clean fitting-free conduit exit and entry.

LISTING
cTUVus listed to UL1598 standard for Dry / Damp (IP30) and Wet (IP65) location. Title 24 JA8-2022 Listed. NEMA 410 Compliant. Buy American Act compliant.

DECLARE
LBC Red List Approved.

WARRANTY
Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. 5-year warranty on LED and power supply to operate with 70% of the original flux and remain within a range of 3 duv. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG
1. 03/15/2024: ADDED 10 DEGREE FIELD REDUCER, UPDATED 10 DEGREE PERFORMANCE DATA.
2. 07/22/2024: REMOVED L2 DRIVER.
3. 05/07/2025: UPDATED WARM DIM OFFERINGS AND PERFORMANCE

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[DATE OF REV: 05072025]

CYLINDER 1 SURFACE MOUNT

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply **1TR Manufacturer**	**Family/Model #**
Lutron Electronics	DV-600P
Lutron Electronics	DVELV-303P
Lutron Electronics	NTELV-600
Lutron Electronics	MAELV-600
Lutron Electronics	SELV-300P
Lutron Electronics	DVLV-600P
Lutron Electronics	NFTU-5A
Lutron Electronics	CTCL-153P
Lutron Electronics	GL-600H
Lutron Electronics	S-600P
Lutron Electronics	PHPM
Power supply **UAN / ULN Manufacturer**	**Family/Model #**
Lutron Electronics	DVTV plus PP-DV
Lutron Electronics	DVSCTV plus PP-DV
Lutron Electronics	DVSTV
Lutron Electronics	DVSCSTV
Lutron Electronics	QSGRJ-XP plus GRX-TVI
Lutron Electronics	QSGRJ-XE plus GRX-TVI
Lutron Electronics	QSGR-XE plus GRX-TVI
Lutron Electronics	NFTV plus PP-DV
Lutron Electronics	NTSTV
Lutron Electronics	RMJ-5T
Lutron Electronics	RMJS-8T
Lutron Electronics	FCJS-010
Leviton	IllumaTch IP7 series
Philips	Sunrise - SR1200ZTUNV

LUTRON DRIVER COMPATIBILITY

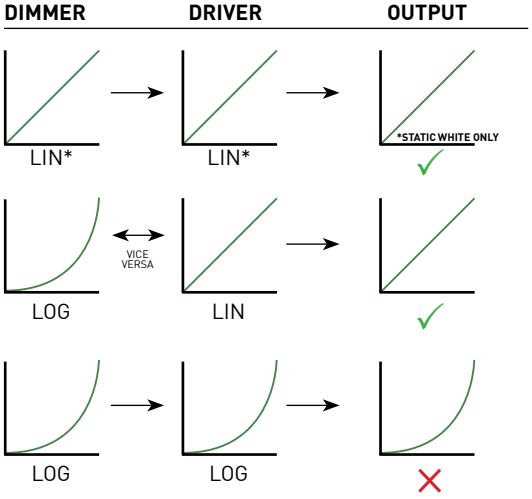
Power supply **ULH Lutron Product Family**	**Part No.**
PowPak Dimming Modules	RMJ-ECO32-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJ-_E (wireless) QSGR-_E
Quantum Hub	QP2-_ _ 2C
Quantum Hub	QP2-_ _ 4C
Quantum Hub	QP2-_ _ 6C
Quantum Hub	QP2-_ _ 8C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D

LUTRON 2016 OEM ADVANTAGE ACCOUNT

eldoLED DRIVER COMPATIBILITY

Power supply **UEG / UEN Dimmer / Switch Control Manufacturer**	**Family/Model #**
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Sensor Switch	nIO EZ
Synergy	ISD BC
Power supply **UEG / UEN Lighting Control Systems Manufacturer**	**Family/Model #**
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
Crestron®	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV8-*
Crestron®	GLPP-DIMFLVEX-PM
Crestron®	GLPP-1DIMFLV2EX-PM
Crestron®	GLPP-1DIMFLV3EX-PM
Crestron®	DIN-AO8
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX
ABB	SD/S 2.16.1

ANALOG DRIVERS AND DIMMERS



LIN = LINEAR
LOG = LOGARITHMIC
*LIN-TO-LIN NOT COMPATIBLE FOR WARM DIM

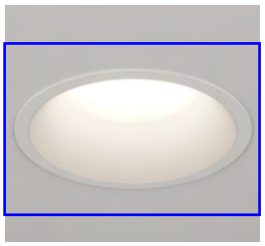
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[DATE OF REV: 05072025]

FRAXION®4 SLIM SHALLOW REGRESS

PROJECT NAME:	TYPE:

- Max output of 3614lm at 80+ CRI
- Baffle options in round and square featuring UGR as low as 11
- Integral drivers for tunable white with our 2 ranges, 1800K to 4000K and 2700K to 5000K
- Concrete Pour applications now available. See separate spec sheet





ORDERING INFORMATION - FIXTURE

JA8-2022 INDICATED BY SHADING

SHAPE	RATING	TYPE	FINISH	BAFFLE FINISH	CRI	WATTAGE	CCT	OPTIC (UGR)	MEDIA	INSTALL TYPE	CEILING THICKNESS	DRIVER
F4RS Round Shallow Regress **F4SS** Square Shallow Regress **F4TS** Square Transitional Shallow Regress* * (Not available for wallwash or natural wood baffles)	1 IP20 Dry/Damp 2 IP64 Wet* * (Suction cup provided for aim and focus)	A Adjustable F Fixed W Wall-wash* * (Not available for natural wood baffles)	**POWDERCOAT MICROFLANGE** WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish* * (Consult Factory) **TRIMLESS** TG Trimless Gypsum 1/16" TM Trimless Millwork	**POWDERCOAT** WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish* * (Consult Factory) **NATURAL WOOD** W0 Customer Supplied Dried Hardwood* * (Not available for IP64 wet locations) W1 Lucifer Lighting Walnut* * (Not available for IP64 wet locations) W2 Lucifer Lighting Maple* * (Not available for IP64 wet locations)	**STATIC WHITE** 80S 80+ 90S 90+ 97S 97+	**STATIC WHITE** 11A 11W - 1351 Lm 15A 15W - 1681 Lm 15C 15W - 638 Lm* * (For use with 10° optic only) 21A 21W - 2271 Lm 30B 30W - 3059 Lm* * (Not available for IC Housings, or Adjustable fixtures) 36B 36W - 3614 Lm* * (Not available for IC Housings, or Adjustable fixtures)	24 2400K* * (90+ CRI 11A, 15A, and 15C only) 27 2700K 30 3000K 35 3500K 40 4000K	10 10°* (<10) * (15C packages only) 15 15° (<16) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) 85 85°* (>19) * (Requires -07 WDL effects device) WW Wallwash* * (Required for wallwash)	**STANDARD MEDIA** 04 Soft Focus Lens* * (Required for 10° Optic) WW Wallwash Lens* * (Required for Wallwash) **ALTERNATE MEDIA** 01 Honeycomb Louver* * (Not available for IP64 Wet Location, or Adjustable Fixtures) 02 Clear Glass Lens 03 Frosted Glass Lens 05 Frosted Soft Focus Lens 06 Frosted Linear Spread Lens 07 Wide Distribution Lens* * (Required and only available for 85° optic) HS Adjustable Honeycomb Louver and Soft Focus Lens * * (Not available for IP64 Wet Location, 21W or 22W, or Fixed Fixtures) NL No Lens * * (Not available for IP64 Wet Location)	**INTEGRAL DRIVER** IC IC NC NIC AT IC, Airtight* * (Airtight & Title 24 compliant housing) CP IC, CCEA Chicago Plenum **REMOTE DRIVER** IR IC NR NIC AR IC, Airtight* * (Airtight & Title 24 compliant housing) CR IC, CCEA Chicago Plenum	1 0.50" -1.375" 2 1.375"-2.125"* * (Adjustable only available for 10° and 15° optic. Not available for Wallwash 90T15B or 90T22B) T 0.50" -1.375"* * (Includes adjustable housing height bracket, recommended for T-Grid applications) G 1.375"-2.125"* * (Adjustable only available for 10° and 15° optic. Includes adjustable housing height bracket, recommended for T-Grid applications. Not available for Wallwash 90T15B or 90T22B)	PH1 Forward / Reverse Phase, 2%, 120V* * (Not available for 30W or 36W) SG3 eldoLED, ECOdrive 1%, 0-10V, LOG, 120V-277V SN3 eldoLED, ECOdrive 1%, 0-10V, LIN, 120V-277V EG1 eldoLED, SOLOdrive 0.1% 0-10V, LOG, 120V-277V EN1 eldoLED, SOLOdrive 0.1% 0-10V, LIN, 120V-277V ED1 eldoLED, SOLOdrive 0.1% DALI-2, LOG, 120V-277V LP1 Lutron, Hi-Lume Premier Ecosystem 0.1% Fade to Black, 120V or 277V* * (Not available for 30W or 36W) AS1 / ASR Athena Control eldoLED, SOLOdrive 0.1%, 120V-277V* * (Includes Athena Node. Extended lead time, consult factory. ASR includes EM Shunt) CS1 / CSR Casambi Control eldoLED, SOLOdrive 0.1%, 120V-277V* * (Includes Casambi Node. Extended lead time, consult factory. CSR includes EM Shunt)
					WARM DIM 90L 90+	**WARM DIM** 15A 90+ CRI, 15 Watts 22A 90+ CRI, 22 Watts 30A 90+ CRI, 30 Watts* * (Not available for IC Housings, or Adjustable fixtures) Incandescent Profile 15A - 1166 Lm 22A - 1511 Lm 30A - 1733 Lm Halogen Profile 15A - 1233 Lm 22A - 1647 Lm 30A - 1908 Lm SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON.	WL 2700K - 1800K WD 3000K - 1800K	15 15° (<16) 20 20° (<10) 25 25° (<10) 40 40° (<10) 60 60° (<13) 85 85°* (>19) * (Requires -07 WDL effects device) WW Wallwash* * (Required for wallwash)				
					TUNABLE WHITE 90T 90+	**TUNABLE WHITE** 15B 15W Warm Profile: 4000K - 1800K 1247 Lm Cool Profile: 5000K - 2700K 1236 Lm 22B 22W Warm Profile: 4000K - 1800K 1710 Lm Cool Profile: 5000K - 2700K 1695 Lm LUMEN DELIVERED OUTPUTS AND T24 COMPLIANCE REFLECT 80+ CRI 3000K PAIRED WITH 25° OPTIC AND SOFT FOCUS LENS	TR 4000K - 1800K TH 5000K - 2700K	15 15° (<16) 20 20° (<10) 25 25° (<10) 40 40° (<10) 60 60° (<13) 85 85°* (>19) * (Requires -07 WDL effects device) WW Wallwash* * (Required for wallwash)				**TUNABLE WHITE POWER SUPPLIES (120-277V)** DG1 eldoLED, DUALdrive 0.1% 0-10V, LOG DN1 eldoLED, DUALdrive 0.1% 0-10V, LIN DD2 eldoLED, DUALdrive 0.1% DALI-2 DT8, LOG AD1 / ADR Athena Control eldoLED, DUALdrive 0.1%* * (Includes Athena Node. Extended lead time, consult factory. ADR includes EM Shunt) CD1 / CDR Casambi Control eldoLED, DUALdrive 0.1%* * (Includes Casambi Node. Extended lead time, consult factory. CDR includes EM Shunt)

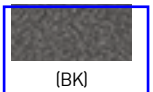
(WH) White Powder Coat


(AB) Architectural Bronze Powder Coat


(AG) Satin Silver Powder Coat


(AU) Cashmere Gold Powder Coat


(BB) Burnt Bronze Powder Coat


(BK) Black Powder Coat


(W1) Lucifer Lighting Walnut


(W2) Lucifer Lighting Maple

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FRAXION4 SLIM SHALLOW REGRESS

ACCESSORIES

ROUND / SQUARE TRANSITIONAL ALTERNATE MEDIA
Dry/Damp location only.
Wet location requires alternate baffle.

☐ **CGL-F4RS** Clear Glass Lens
☐ **FGL-F4RS** Frosted Glass Lens
☐ **SFL-F4RS** Soft Focus Lens
☐ **FSFL-F4RS** Frosted Soft Focus Lens
☐ **WDL-F4RS** Wide Distribution Lens*
* (Required and only available for 85° beam spread)
☐ **FLSL-F4R** Frosted Linear Spread Lens

SQUARE ALTERNATE MEDIA
Dry/Damp location only.
Wet location requires alternate baffle.

☐ **CGL-F4SS** Clear Glass Lens
☐ **FGL-F4SS** Frosted Glass Lens
☐ **SFL-F4SS** Soft Focus Lens
☐ **FSFL-F4SS** Frosted Soft Focus Lens
☐ **WDL-F4SS** Wide Distribution Lens*
* (Required and only available for 85° beam spread)
☐ **FLSL-F4SS** Frosted Linear Spread Lens

ADJUSTABLE HCL ASSEMBLY
Dry / Damp location only.

☐ **OLR-F4RS1-SFL-HCL** Adjustable Honeycomb Louver and Soft Focus Lens*
* (Not available for IP64 Wet Location, 21W or 22W, or Fixed Fixtures)

ASSEMBLY	SHAPE	RATING	FINISH	MEDIA
RBA				
REPLACEMENT BAFFLE ASSEMBLY	F4RS Round Shallow Regress F4RW Round Wallwash F4SS Square Shallow Regress F4SW Square Wallwash F4TS Square Transitional Shallow Regress	1 IP20 Dry/Damp 2 IP64 Wet* * (Requires provided suction cup to service or aim & focus)	WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish * * (Consult Factory)	LEAVE BLANK FOR SOFT FOCUS LENS (SFL) OR WALLWASH (WW) HCL Honeycomb Louver* * (Not available for IP64 Wet Location, or adjustable fixtures) CGL Clear Glass Lens FGL Frosted Glass Lens FSFL Frosted Soft Focus Lens FLSL Frosted Linear Spread Lens WDL Wide Distribution Lens* * (Required and only available for 85° optic) NL No Lens * * (Not available for IP64 Wet Location)

REPLACEMENT OPTICS
Interchangeable optics accessible through fixture aperture.

STATIC WHITE
☐ **RO-70-15-S** 15° optic
☐ **RO-70-20-S** 20° optic
☐ **RO-70-25-S** 25° optic
☐ **RO-70-40-S** 40° optic
☐ **RO-70-60-S** 60° optic
☐ **RO-70-WW-S** Wallwash Optic

WARM DIM
☐ **RO-70-15-W** 15° optic
☐ **RO-70-20-W** 20° optic
☐ **RO-70-25-W** 25° optic
☐ **RO-70-40-W** 40° optic
☐ **RO-70-60-W** 60° optic
☐ **RO-70-WW-W** Wallwash Optic

TUNABLE WHITE
☐ **RO-70-15-T** 15° optic
☐ **RO-70-20-T** 20° optic
☐ **RO-70-25-T** 25° optic
☐ **RO-70-40-T** 40° optic
☐ **RO-70-60-T** 60° optic
☐ **RO-70-WW-T** Wallwash optic

T-GRID ACCESSORY KIT
Supplied with ceiling thickness "T" and recommended for installations in T-Grid up to 1.5" tall. Available for ceiling thicknesses from 0.50" - 2.125".

☐ **DHA-TG-KIT**

FURRING CHANNEL ACCESSORY KIT
Recommended for installations in furring channel. Available for ceiling thicknesses from 0.50" - 2.125".

☐ **DHA-FC-KIT**

HANGER BAR EXTENDER KIT
Extends hanger bars from 24.0" to 46.0" maximum.

☐ **FRX-HBE-46** Extender, Hanger Bar

REPLACEMENT APPLIQUÉ
☐ **DLA-APP-F4RS** Round, Shallow Regress
☐ **DLA-APP-F4SS** Square, Shallow Regress

REPLACEMENT SUCTION TOOL
One included with every six fixtures designated Wet location.

☐ **F4-TOOL-SUCTION** Allows for removal of baffle with Wet location

EMERGENCY LIGHTING - REMOTE MOUNT ONLY
During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

☐ **EMB-S-25-120/277-LEDX** 25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable
☐ **EMB-S-100-120-LEDX** 100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable
☐ **EMB-S-100-277-LEDX** 100 watt max capacity, 277 VAC 60Hz, 0-10V Dimmable
☐ **EMB-S-250-120/277-LEDX** 250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable

NOTE: SHUNT REQUIRED FOR USE WITH ATHENA AND CASAMBI CONTROLS, CONSULT FACTORY FOR DETAILS.

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FRAXION4 SLIM SHALLOW REGRESS

PERFORMANCE - 3000K

JA8-2022 INDICATED BY SHADING

PACKAGE	WATTS	10° OPTIC NO LENS		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS		85° OPTIC WIDE DISTRIBUTION		WW OPTIC	
		DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW
80S11A	11	-	-	1194	109	1255	114	1351	123	1246	113	1122	102	961	87	868	79
80S15A / C	15	638	42	1609	107	1689	113	1681	112	1612	107	1495	100	1296	86	1126	65
80S21A	21	-	-	2228	106	2264	108	2271	108	2179	104	2020	96	1762	84	1275	61
80S30B	30	-	-	2928	97	3104	103	3059	101	2917	97	2739	91	2419	80	2086	70
80S36B	36	-	-	3453	95	3657	101	3614	100	3439	96	3212	89	2851	79	2405	69
90S11A	11	-	-	1026	93	1078	98	1161	106	1070	97	964	88	826	75	746	68
90S15A / C	15	550	36	1382	92	1451	97	1444	96	1385	92	1284	86	1113	74	967	64
90S21A	21	-	-	1914	91	1945	93	1951	93	1872	89	1735	83	1514	72	1095	52
90S30B	30	-	-	2515	84	2667	89	2628	88	2506	84	2353	78	2078	69	1792	60
90S36B	36	-	-	2966	82	3142	87	3105	86	2954	82	2759	77	2449	68	2066	57
97S11A	11	-	-	901	82	946	86	1019	93	939	85	846	77	725	66	655	60
97S15A / C	15	475	31	1213	81	1274	85	1268	85	1216	81	1127	75	977	65	849	57
97S21A	21	-	-	1680	80	1708	81	1713	82	1644	78	1523	73	1329	63	961	46
97S30B	30	-	-	2208	74	2342	78	2307	77	2200	73	2066	69	1824	61	1573	52
97S36B	36	-	-	2604	72	2759	77	2726	76	2594	72	2422	67	2150	60	1814	50
90L15A (WL 27K-18K)	15	-	-	1157	77	1185	79	1166	78	1103	74	995	66	880	59	928	62
90L15A (WD 30K-18K)	15	-	-	1245	83	1235	82	1233	82	1184	79	1118	75	979	65	941	63
90L22A (WL 27K-18K)	22	-	-	1499	68	1535	70	1511	69	1429	65	1289	59	1140	52	1202	55
90L22A (WD 30K-18K)	22	-	-	1663	76	1650	75	1647	75	1582	72	1493	68	1308	59	1257	57
90L30A (WL 27K-18K)	30	-	-	1719	57	1761	59	1733	58	1639	55	1478	49	1308	44	1379	46
90L30A (WD 30K-18K)	30	-	-	1926	64	1911	64	1908	64	1832	61	1730	58	1515	50	1456	49
90T15B (40K-18K)	15	-	-	1203	80	1267	84	1247	83	1191	79	1122	75	969	65	890	59
90T15B (50K-27K)	15	-	-	1192	79	1256	84	1236	82	1180	79	1112	74	960	64	882	59
90T22B (40K-18K)	22	-	-	1664	76	1752	80	1710	78	1651	75	1574	72	1351	61	1241	56
90T22B (50K-27K)	22	-	-	1649	75	1736	79	1695	77	1636	74	1560	71	1339	61	1230	59

PERFORMANCE ATTRIBUTES

OPTIC	10° OPTIC FIELD REDUCER	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS	85° OPTIC WIDE DIST.	WW OPTIC WALLWASH LENS
MAX UGR	<10	>19	<13	<13	<16	>19	>19	>19
MAX TILT	30°	27°	24°	21°	15°	6°	<5°	

*UGR VALUES REFLECT WHITE BAFFLE AND 30 WATTS, LOWER UGR VALUES AVAILABLE WITH DIFFERENT FINISHES AND LOWER WATTAGES.
**MAX TILT REFLECTS TILT ANGLE PRIOR TO BEAM CLIPPING.

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.00
3500K	1.03
4000K	1.08

TUNABLE WHITE MULTIPLIER

CCT	5000K-2700K	4000K-1800K
5000K	1.16	-
4000K	1.08	1.14
3500K	1.04	1.07
3000K	1.00	1.00
2700K	0.96	0.92
2400K	-	0.84
1800K	-	0.69

MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.06
CGL	1.00
SFL	1.00
FGL	0.89
FSFL	0.81
FLSL	0.82
HCL	0.73

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FRAXION4 SLIM SHALLOW REGRESS

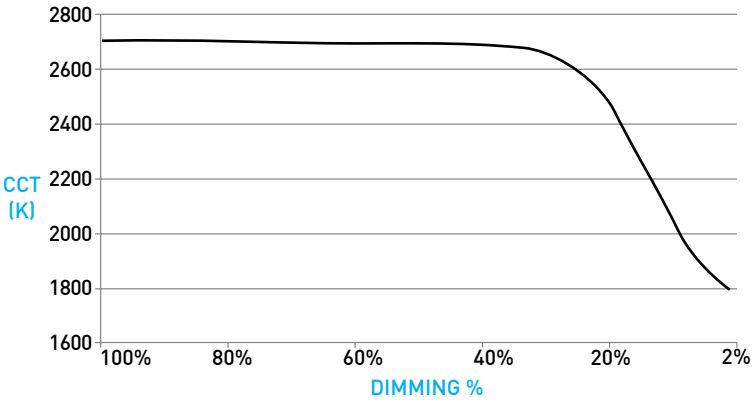
WARM DIM PERFORMANCE - 25° OPTIC - SOFT FOCUS LENS

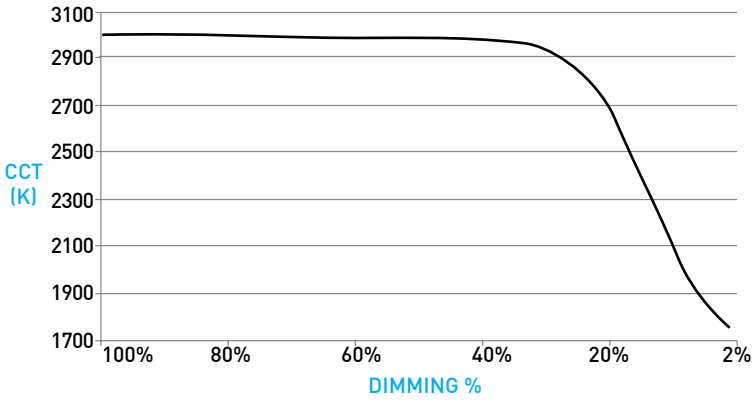
INCANDESCENT PROFILE

90L15AWL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2500K	1900K	1800K
Light Output (Lm)	1185	948	830	593	237	119	24
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	79	79	79	79	79	79	79
90L22AWL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2600K	2100K	1800K
Light Output (Lm)	1535	1228	1075	768	307	154	31
Power (W)	22	17.6	15.4	11	4.4	2.2	0.4
Efficacy (LPW)	70	70	70	70	70	70	70
90L30AWL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700K	2700K	2700K	2700K	2700K	2500K	1800K
Light Output (Lm)	1761	1409	1233	881	352	176	35
Power (W)	30	24	21	15	6	3	0.6
Efficacy (LPW)	59	59	59	59	59	59	59

HALOGEN PROFILE

90L15AWD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	2000K	1800K
Light Output (Lm)	1235	988	865	618	247	124	25
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	82	82	82	82	82	82	82
90L22AWD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	2500K	1800K
Light Output (Lm)	1650	1320	1155	825	330	165	33
Power (W)	22	17.6	15.4	11	4.4	2.2	0.4
Efficacy (LPW)	75	75	75	75	75	75	75
90L30AWD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000K	3000K	3000K	3000K	3000K	3000K	1800K
Light Output (Lm)	1911	1526	1338	956	382	191	38
Power (W)	30	24	21	15	6	3	0.6
Efficacy (LPW)	64	64	64	64	64	64	64





NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

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FRAXION4 SLIM SHALLOW REGRESS

DOWNLIGHT / HOUSING

A DOWNLIGHT / HOUSING
Integral LED module design enables field service / replacement through housing aperture.

B OPTIC
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering wallwash, 10°, 15°, 20°, 25°, 40° & 60° beams.

C 10° FIELD REDUCER
Provided with 10°optic, includes honeycomb louver. Reduces field angle by 30%.

D ADJUSTABLE HCL / SFL ASSEMBLY
Honeycomb Louver and Soft Focus Lens attach directly to optic with clip-on lens retainer and adjusts with fixture. Only compatible with no lens baffle. Dry/Damp locations only. Specified as "HS" Effects Device.

E TRIM EXTENSION
Provided for -2 ceiling thickness; accommodates 2.125" max ceiling thickness.

F MICROFLANGE PROFILE
Provides industry standard 0.43" total contractor (goof) allowance with 0.27" flange. Thickness measures 1/16". IP64 Wet location features integral silicone gasket.

G TRIMLESS GYPSUM PROFILE
Installs totally flush with the ceiling with no visible trim. Features integrated appliqué for plaster floating directly to the baffle. Not recommended for stucco applications.

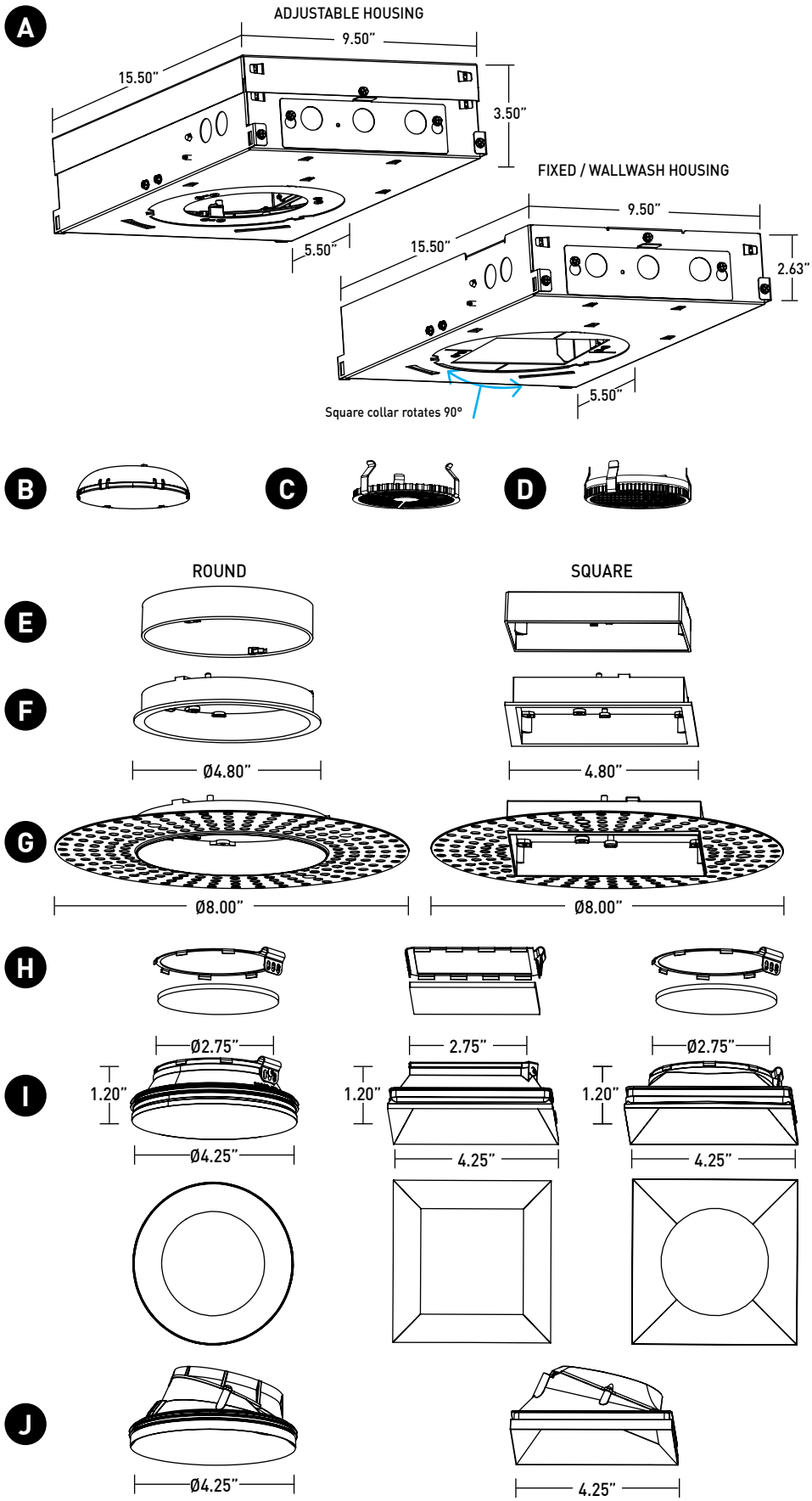
H EFFECTS DEVICES / LENS RETAINER
Fixture is limited to 1 effects device installed on the baffle, see Section D for Adjustable HCL assembly. Wet location effects device is sealed in place on baffle, suction tool provided for removal of baffle. Lens retainer allows effects devices to be changed in Dry /Damp locations.

I ROUND / SQUARE BAFFLE
Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 71° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

SQUARE TRANSITIONAL BAFFLE
Transitions from square aperture at ceiling to round aperture at light source. Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 71° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

J WALLWASH BAFFLE / MEDIA
Die-cast baffle with angled wide aperture for enhanced uniformity. Features asymmetrical spread lens, sealed in place, combined with auxiliary reflector for optimum performance. Includes gasket, mitigating light leak, and Suction Tool to accommodate baffle removal.

DIMENSIONS / DRAWINGS



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FRAXION4 SLIM SHALLOW REGRESS

K IC HOUSING
- For IC ceilings.
- No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

L NIC HOUSING
- Minimum 0.50" setback from combustible and non-combustible materials on all sides and top of housing.
- Minimum 3.00" setback from insulation material having max R-Value 30 on all sides and top of housing.
- Minimum 6.00" setback from polycell spray foam insulation having max R-Value 60.

M ADJUSTABLE HANGER BAR HEIGHT ACCESSORY
Provided with ceiling thickness "T" and recommended for installations in T-Grid up to 1.5" tall. Hanger bars are installed to adjustable bracket. Allows housing to be raised and lowered; ceiling thickness remains 0.5" to 2.125" max.

N ADJUSTABILITY
Aiming mechanism is integral to the housing, providing hot-aim tilt up to 40° with Philips screwdriver and 365° rotation with tooless locking tab. Sliding pivot point optimizes center beam, ensuring unclipped beam of 15° at 27° tilt and 25° at 21° tilt. 1° tilt increments with 5° indicators, tilt guide included.

O TRIMLESS MILLWORK PROFILE / SPACERS
No visible flange, installs totally flush with millwork. Includes (1) 1/16" spacer and (5) 1/8" spacers.

P APPLIQUÉ DETAIL
Appliqué for plaster floating directly to baffle. Provided with 1/16" plaster stop.

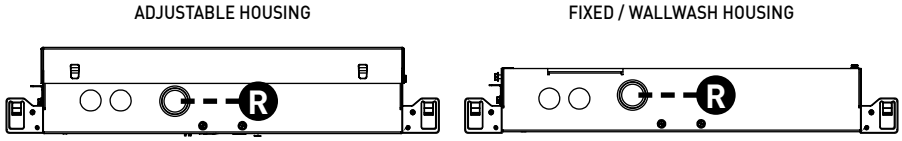
Q REMOTE POWER SUPPLY
Provided with install Types "IR", "NR", "AR", and "CR". Remote power supply provides additional driver options. See page 7 for maximum allowable secondary run lengths between remote driver and fixture. Must be installed in an accessible location.

R ATHENA / CASAMBI CONTROL
Controls integrated into housing or remote driver assembly. All equipment is serviceable.

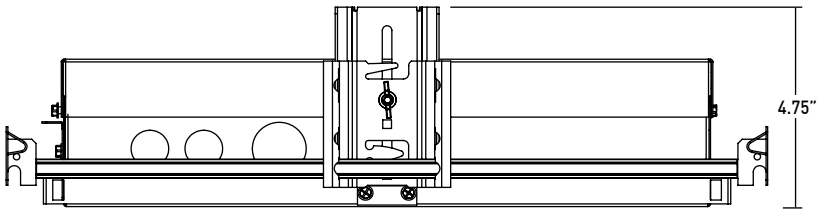
S ATHENA / CASAMBI EM SHUNT
Included with drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt. Features integrated test switch.

Model Number: PS-RMT-SHUNT

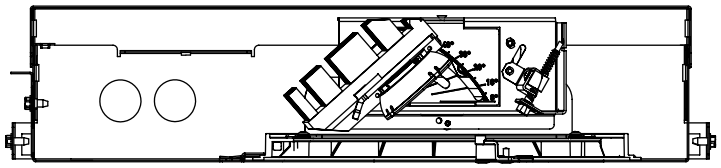
K / L



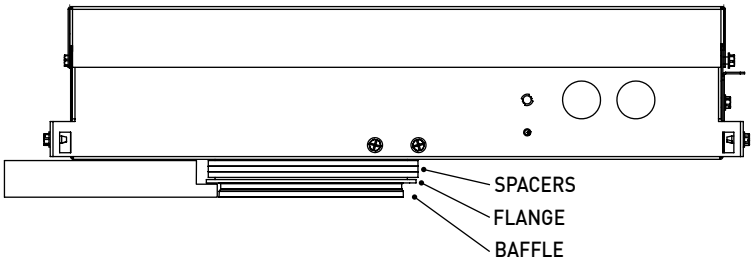
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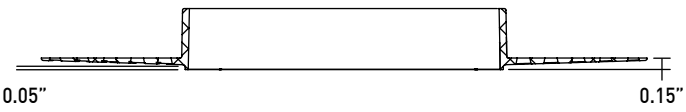
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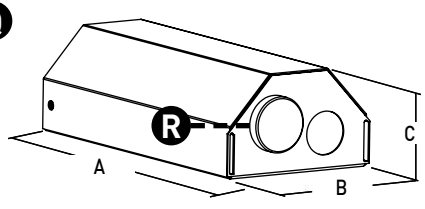
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P

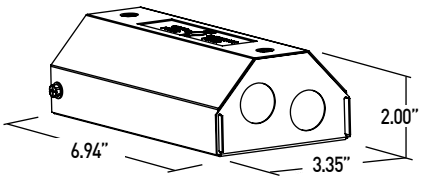


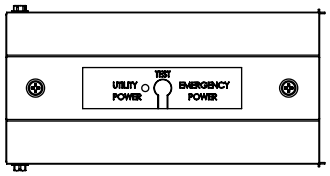
Q



	A	B	C
STATIC WHITE / WARM DIM	6.94"	3.35"	2.00"
TUNABLE WHITE	8.10"	5.00"	2.00"
ATHENA / CASAMBI CONTROLLED	8.10"	5.00"	2.00"

S





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FRAXION4 SLIM SHALLOW REGRESS

TECHNICAL

CONSTRUCTION
Downlight: Painted finishes are granulated powder coat.
Housing: Aluminum and 22 Gauge galvanized steel. Extruded aluminum housing panel to act as heat-sink.
Remote Power Supply: 22 Gauge galvanized steel.
Appliqué: Zinc Alloy

STATIC WHITE LED
2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ CRI configuration in color temperature of 2400K. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

WARM DIM LED
3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

TUNABLE WHITE LED
3-step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning ranges of 1800K to 4000K and 2700K to 5000K. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE	0-10V						ECO	DALI-2		ATHENA		CASAMBI	
Power Supply	PH1	SG3	SN3	EG1	EN1	DG1	DN1	LP1	ED1	DD1	AS1	AD1	CS1	CD1
Minimum °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	0 °C	-20 °C	-20 °C	0 °C	0 °C	- 20°C	- 20°C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	2.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For PH1, LP1, EG1 and EN1 drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG				
DRIVER	12	14	16	18	20
PH1	285'	180'	113'	71'	45'
LP1	60'	40'	25'	15'	-
EG1, EN1, ED1, DG1, DN1, DD2, AS1, AD1, CS1, CD1	-	-	118'	72	46'

WALLWASH SPACING
Recommended fixture spacing is 36" (914mm) on center with 36" (914mm) setback from wall plane.

LISTING
UL listed to UL1598 standard for Dry / Damp and Wet locations. CCEA, Airtight and Title 24 JA8-2022 Listed.
NEMA 410 Compliant.
U.S. Patent: 10,317,066

BUY AMERICAN ACT
All Fraxion4 SLIM configurations are Buy American Act compliant.

DECLARE
LBC Red List Approved.

WEIGHT
Fixture - 7.2 lbs max
Remote Driver - 1.4 lbs

HOUSING NOTES

- Do not install housings in environments where ambient temperatures exceed 40°C (104°F).
- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars fitted to short side of housing or long side when TG accessory is specified; extend from 14.0" to 24.0", but may be field cut to accommodate narrow stud spacing. Can be extended up to 46" maximum with FRX-HBE-46 kit.
- Hanger bars and brackets add 4.00" max to the overall dimension, but are exclusive of the setback requirements.
- Housings for round trims feature a round aperture housing collar. Housings for square trims feature a square housing collar that rotates up to 90 degrees for fixture alignment. Housing collars accommodate ceiling thicknesses between 0.50" and 2.125".

LIMITED WARRANTY

Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service for 1-year. LED and power supplies are warranted to operate with 70% of original flux and remain within a range of 3 duv for a period of 5-years. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG
1. 05/07/2025: UPDATED WARM DIM OFFERING.

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FRAXION4 SLIM SHALLOW REGRESS

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply **PH1** **Manufacturer**	**Family/Model #**
Lutron Electronics	DV-600P
Lutron Electronics	DVELV-303P
Lutron Electronics	NTELV-600
Lutron Electronics	MAELV-600
Lutron Electronics	SELV-300P
Lutron Electronics	DVLV-600P
Lutron Electronics	NFTU-5A
Lutron Electronics	CTCL-153P
Lutron Electronics	GL-600H
Lutron Electronics	S-600P
Lutron Electronics	PHPM

LUTRON DRIVER COMPATIBILITY

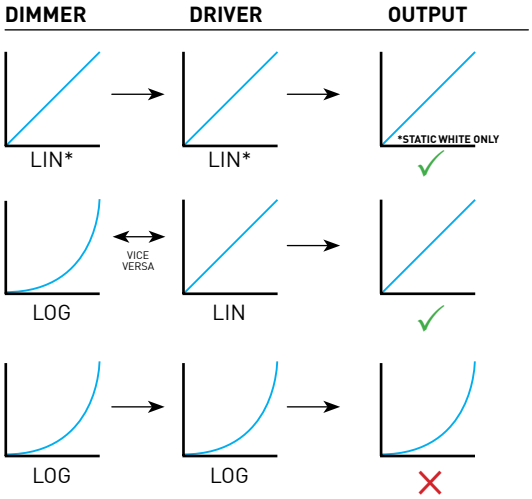
Power supply **LP1** **Lutron Product Family**	**Part No.**
PowPak Dimming Modules	RMJ-ECO32-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJ-_E (wireless) QSGR-_E
Quantum Hub	QP2-_ _ 2C
Quantum Hub	QP2-_ _ 4C
Quantum Hub	QP2-_ _ 6C
Quantum Hub	QP2-_ _ 8C
Homeworks QS power module myRoom Plus power module	LQSE-2ECO-D

LUTRON 2016 OEM ADVANTAGE ACCOUNT

eldoLED DRIVER COMPATIBILITY

Power supply **EG1 / SG3** **Manufacturer**	**Family/Model #**
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Synergy	ISD BC
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
Crestron®	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV8-*
Crestron®	GLPP-DIMFLVEX-PM
Crestron®	GLPP-1DIMFLV2EX-PM
Crestron®	GLPP-1DIMFLV3EX-PM
Crestron®	DIN-AO8
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX
Power supply **EN1 / SN3** **Manufacturer**	**Family/Model #**
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Sensor Switch	nIO EZ
ABB	SD/S 2.16.1

ANALOG DRIVERS AND DIMMERS



LIN = LINEAR
LOG = LOGARITHMIC
*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM

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E07

VIZULO



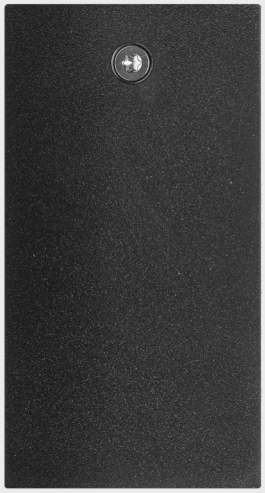




Robin

Robin



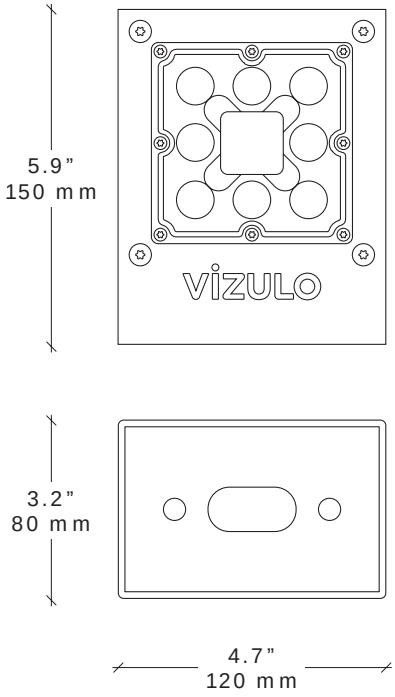




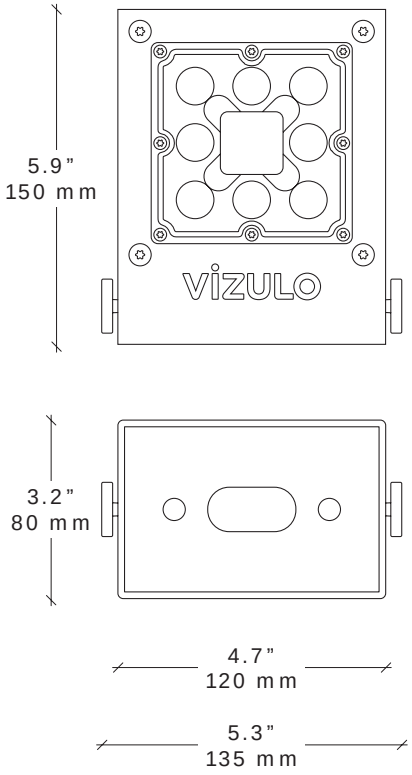
RAL9005

Other colors
available on request

Standard version



Hand screw version



Technical information

IP66 IK10 CE UKCA RoHS

V	220 - 240
Hz	50 - 60
W	8 - 26
lm	913 - 3350 (1
lm/W	106 - 135
K	2700 / 3000 / 4000 (2
°F	-40 to +104
°C	-40 to +40
CRI	>80 / >90 (2

Body:	Die-cast aluminium
Dimming:	DALI / Midnight dimming / Non dimmable
Initial chromaticity:	MacAdam 5
Lifetime:	Up to 100 000 h (L98B10) at Ta = 77 °F / 25 °C*
Warranty:	5 years
Mounting:	On wall
Surge protection:	4 / 6 / 10 kV (3
Nature friendly:	PC Amber / Red / 1800 K
Corrosion protection:	Up to C5
Neto weight:	Up to 2.43 lbs / 1.1 kg
Max. wind load area, SCd:	0.15 ft^2 / 0.014 m^2

1) Lumen output indicated at CRI > 70

2) 1800 / 2200 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

3) 10 kV (L-N; L/N-PE) surge protection device available on request

* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes

Eco modules

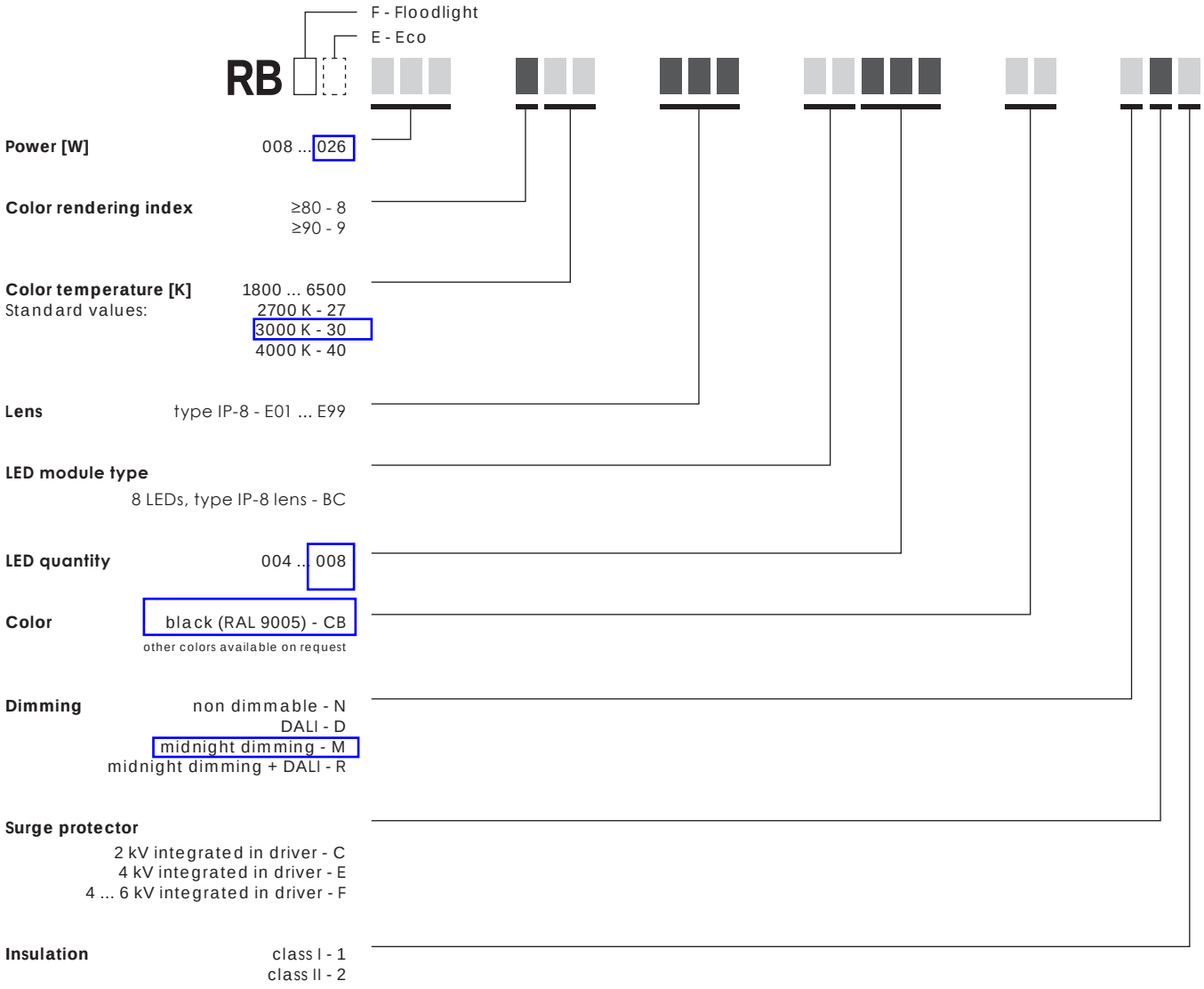
* Data for L01 optic.
Check VIZULO members section for additional information

4000 K | CRI 70

Number of LED's		4			8	
Nominal current, mA	270	520	700	270	370	490
Power, W	8	15	20	15	20	26
Luminous Flux, lm	990	1780	2290	2020	2670	3350
Efficacy, lm/W	124	119	115	135	134	129
Power factor, PF		Up to 0.95			Up to 0.95	

Luminaire efficacy	2700 K	8 - 26 W	913 - 3090 lm	106 - 125 lm/W
	3000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5000 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W
	5700 K	8 - 26 W	990 - 3350 lm	115 - 135 lm/W

Model name principles



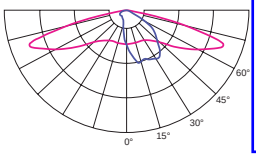
EXAMPLE RBE 008 730 E93 BC004 CB NC1

Cable core count

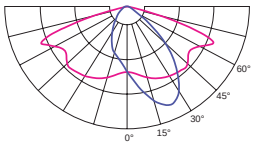
Socket	Dimming	Model number abbreviation	Input cable core count Class I	Input cable core count Class II
None	None	N	3	2
None	DALI	D	5	4
None	Midnight dimming	M	3	2
None	Midnight dimming + DALI	R	5	4

Optics

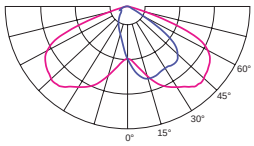
E22



E63



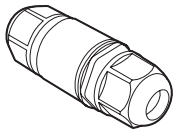
E93



Accessories

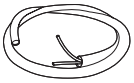
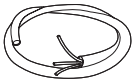
IP68 rated wire cable connector

2 wire cable connector ..... *Art. 70000676*
3 wire cable connector ..... *Art. 70000677*
4 wire cable connector ..... *Art. 70000725*
5 wire cable connector ..... *Art. 70000678*



Pre-installed cable sets for internal power supply *

* Custom cable lengths available on request



Cable length [ft]	Cable length [m]	2 x 16 AWG/ 1.5 mm²	3 x 16 AWG/ 1.5 mm²	4 x 16 AWG/ 1.5 mm²	5 x 16 AWG/ 1.5 mm²
1.6	0.5	*Art. 70100184*	*Art. 70100179*	*Art. 70100402*	*Art. 70100409*
3.3	1	*Art. 70100156*	*Art. 70100193*	*Art. 70000527*	*Art. 70100220*
4.9	1.5	*Art. 70100391*	*Art. 70100258*	*Art. 70100403*	*Art. 70100410*
6.6	2	*Art. 70100202*	*Art. 70100177*	*Art. 70000515*	*Art. 70100262*
8.2	2.5	*Art. 70100392*	*Art. 70100213*	*Art. 70100404*	*Art. 70100411*
9.8	3	*Art. 70100166*	*Art. 70100178*	*Art. 70000529*	*Art. 70100217*
13.1	4	*Art. 70100172*	*Art. 70100144*	*Art. 70000530*	*Art. 70100189*
16.4	5	*Art. 70100173*	*Art. 70100146*	*Art. 70000531*	*Art. 70100185*
19.7	6	*Art. 70100099*	*Art. 70000512*	*Art. 70000532*	*Art. 70000370*
23.0	7	*Art. 70100174*	*Art. 70100182*	*Art. 70000533*	*Art. 70100201*
26.3	8	*Art. 70100152*	*Art. 70000630*	*Art. 70000534*	*Art. 70100212*
29.5	9	*Art. 70100176*	*Art. 70000381*	*Art. 70000535*	*Art. 70100192*
32.8	10	*Art. 70100153*	*Art. 70000631*	*Art. 70000536*	*Art. 70000387*
36.1	11	*Art. 70100191*	*Art. 70100143*	*Art. 70000537*	*Art. 70000388*
39.4	12	*Art. 70100167*	*Art. 70100147*	*Art. 70000538*	*Art. 70100200*
42.7	13	*Art. 70100186*	*Art. 70100187*	*Art. 70000539*	*Art. 70100412*
45.9	14	*Art. 70100204*	*Art. 70100164*	*Art. 70000540*	*Art. 70100165*
49.2	15	*Art. 70100380*	*Art. 70100030*	*Art. 70000541*	*Art. 70100183*
65.6	20	*Art. 70100393*	*Art. 70100397*	*Art. 70100405*	*Art. 70100413*
82.0	25	*Art. 70100276*	*Art. 70100398*	*Art. 70100406*	*Art. 70100414*

Certification

CE – conformity with European Union's health, safety and environmental protection standards

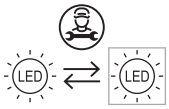
The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).

UKCA - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.

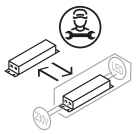
RoHS – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.



LED module replaceable by a professional

This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



LED driver replaceable by a professional

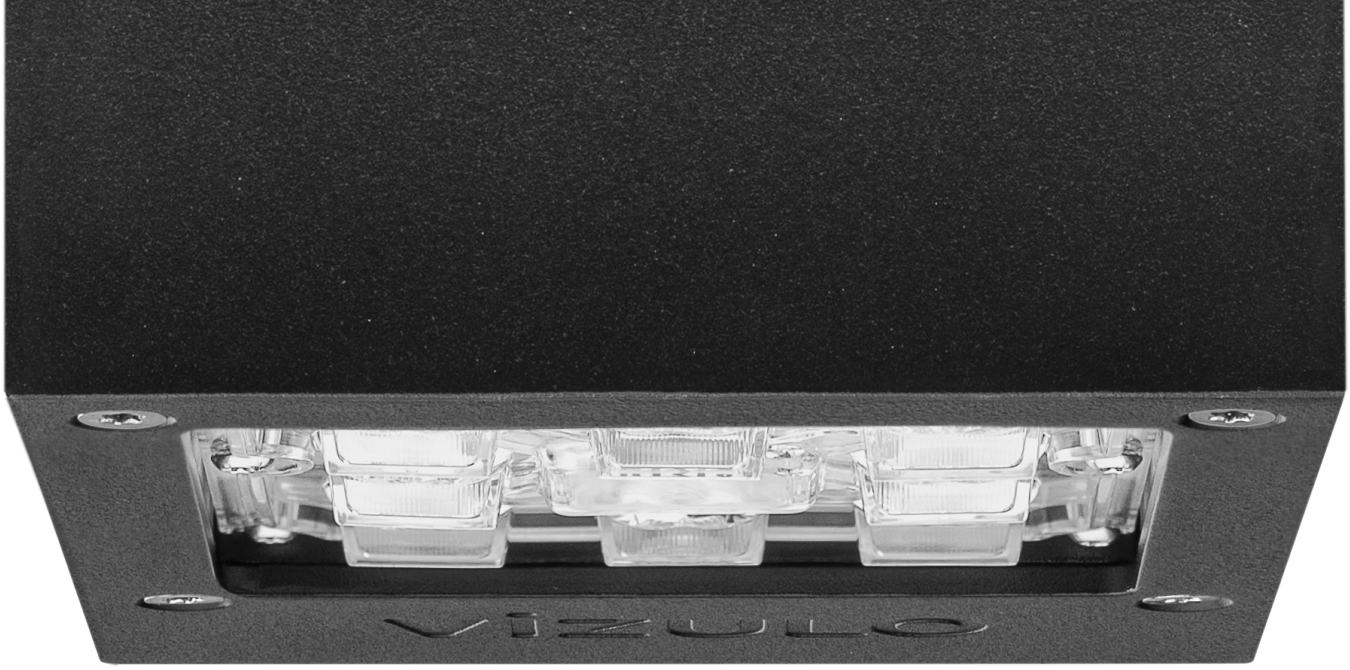
This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement folowing the introdution of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

References



↘ MAAJO Boutique Hotel | Latvia

E07



VIZULO

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Sales: + 371 67 383 023
Production: + 371 67 383 024

sales@vizulo.com
www.vizulo.com

VIZULO

VIZULOSOLUTIONS

Rook X Accent

2" Exterior Adjustable Accent

PROJECT: **TYPE:**

Features

The Rook X takes Adjustable lighting to next level. The family employs solid state technology and precision engineering to provide small scale, but powerful LED solution for landscape, architectural and even post mounted layouts. All components are encapsulated inside a single attractive enclosure designed for superior performance in weather resistant applications. Offered in a choice of beam spreads, finishes, and color temperatures. Two mounting options, and several glare shields are also available. Various optical accessories, beam shaping films or a hexcell louver can be changed or added in the field.



RKX-AS



RKX-AR

Product Overview

Type:	Exterior Adjustable Accent
Wattage:	12W
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ.
Dimming:	Integrated driver with 3 dimming protocols is standard *(TRIAC & ELV or 0-10V)*, 120-277V
Operating Temp:	-40°C to +40°C

Certifications

5 year limited warranty AMERLUX LED

POWDER COATED TOUGH

Fixture Summary

Application:
Exterior accent lighting for landscape, hardscape, buildings, signage or pole mount.

Construction:
- Machined aluminum housing and die-cast knuckle assembly
- IP66 sealed optical chamber and integral driver chamber
- Flush lens prevents puddles/water deposits in upward facing applications
- 180°+ adjustability in the knuckle
- Infinitely adjustable within the vertical aiming range using tapered locking mechanism.

Optics:
- 17°, 22°, 28°, 45°, 60°, 60x20, 90x60 90x60 beam spreads are available with secondary shaping lens

Electrical:
- Integral tri-dim driver
- Input voltage 120V-277V auto-sensing
- Drive current 300mA
- Power consumption 12W

Mounting:
- 1/2" NPT internal threads on the adjustable knuckle
- Supplied with 1/2" NPT to 1/2" NPSM externally threaded stainless steel nipple for mounting to various accessories

Mounting Accessories :
(ordered separately)
- Ground Stake
- Round Junction Box
- Round Cover for JBOX
- Rectangular JBOX
- Rectangular Cover for RT-BOX
- Wall Mount

Optical Accessories:
- Hexcell Louver

Requires AL *(Accessory mount lens):*
- Full Glare Shield
- Half Glare Shield
- Visor Shield

Finish:
- Premium quality thermoset polyester powdercoat for a durable finish.

ETL listed, suitable for wet locations.

Rook X Accent

2" Exterior Adjustable Accent

amerlux

PROJECT: **TYPE:**

Ordering Information - Luminaire

_____.____.____.____.____.____

1 2 3 4 5 6

1 Model	2 Lens Type	3 Beam Spread	4 Color Temp	
RKX-AS side mount knuckle	**F** flush lens	**SP** spot, 15°	83 CRI	90+ CRI
RKX-AR rear mount knuckle	**A** accessory mount lens	**NF** narrow flood, 22°	**27** 2700K-83	**279** 2700K-90+
		MFL medium flood, 25°	**30** 3000K-83	**309** 3000K-90+
		FL flood, 28°	**35** 3500K-83	**359** 3500K-90+
		WF wide flood, 45°	**40** 4000K-83	**409** 4000K-90+
		VWF very wide flood, 60°		
		LS6020 linear spread, 60°x20°		
		LS9060 linear spread, 90°x60°		

5 Finish	6 Optical Accessories
Standard Colors	**HEX** hexcell louver
ABZ architectural bronze	Requires Accessory mount lens *(A)*:
BLK smooth satin black	**FGS** full glare shield
Premium Colors	**HGS** half glare shield
SDS stardust silver	**VS** visor shield
TBK textured black	
WHT white	
RAL or custom colors available, consult factory	

Ordering Information - Mounting Accessories *(ordered separately)*

_____.____

1 2

1 Model	2 Finish
GSP17 ground stake *(black polycarbonate)*	Standard Colors
RDBOX round junction box *(specify finish)*	**ABZ** architectural bronze
RDCOV1 round cover for RDBOX, single mounting hole *(specify finish)*	**BLK** smooth satin black
RDCOV2 round cover for RDBOX, dual mounting hole *(specify finish)*	Premium Colors
RTBOX rectangular junction box *(specify finish)*	**SDS** stardust silver
RTCOV1 rectangular cover for RTBOX, single mounting hole *(specify finish)*	**TBK** textured black
RTCOV2 rectangular cover for RTBOX, dual mounting hole *(specify finish)*	**WHT** white
WMS14 wall mount *(specify finish)*	*RAL or custom colors available, consult factory*

Rook X Accent

2" Exterior Adjustable Accent

PROJECT: **TYPE:**

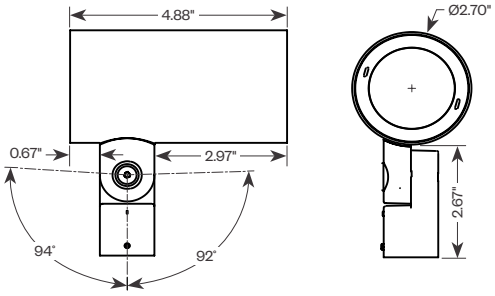
Ordering Information for Additional or Replacement Optical Films

Luminaire Optics			Secondary Optic Information *(Films)*	
Optic	**Nominal Distribution**	**Description**	**Part # for Secondary Optics**	**Description**
SP	17°	Spot	NA	Standard Optic
NF	22°	Narrow Flood	665-0050-1	10° Optical Film
MfL	25°	Medium Flood	665-047-7	15° Optical Film
FL	28°	Flood	665-0051-1	20° Optical Film
WF	45°	Wide Flood	665-0052-1	30° Optical Film
VWF	60°	Very Wide Flood	665-0054-1	60° Optical Film
LS60x20	60°x20°	Asymmetric	665-0062-01	60°x20° Optical Film
LS90x60	90°x60°	Asymmetric	665-0063-04	90°x60° Optical Film
Multiple	Multiple	Kit with all options	301-14781	All above included
All	NA	Film Mounting Ring	607-0386	Mounting Ring for Film

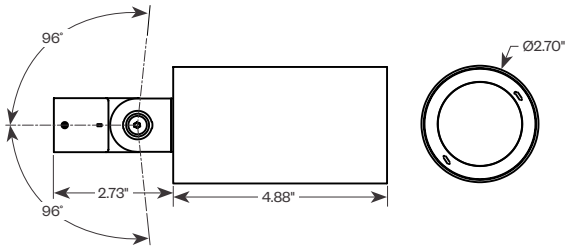
Part #'s above are used to order additional or replacement films. When specifying the original configuration the optic is already included.

Product Details

Side Knuckle Mount *(RKX-AS)*



Rear Knuckle Mount *(RKX-AR)*



Lens Type



Flush Lens *(F)*



Accessory Mount Lens *(A)*

178 Bauer Drive, Oakland, NJ 07436 • P: 973-882-5010 F: 973-882-2605 • amerlux.com
Amerlux reserves the right to change details that do not affect overall function and performance.

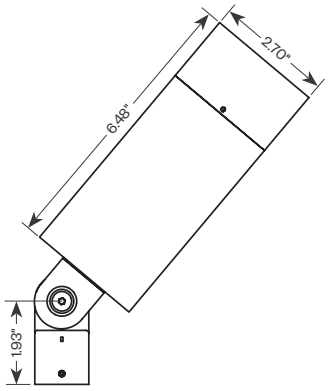
Rook X Accent

2" Exterior Adjustable Accent

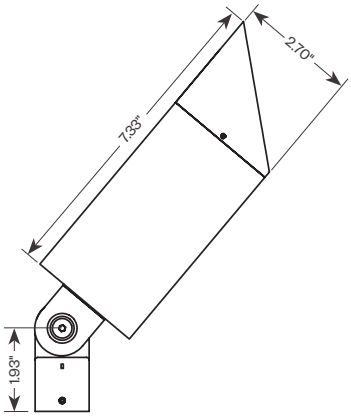
amerlux

PROJECT: **TYPE:**

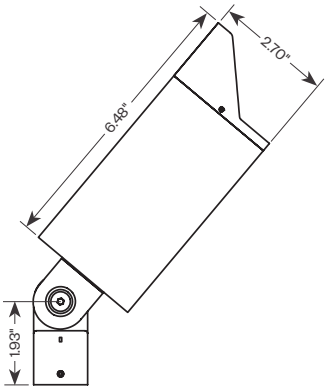
Optical Accessories



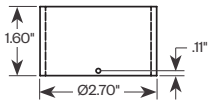
RKX-AR shown with FGS



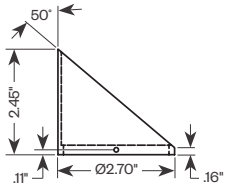
RKX-AR shown with HGS



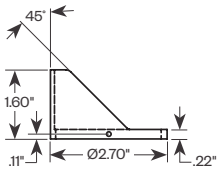
RKX-AR shown with VS



Full Glare Shield *(FGS)**



Half Glare Shield *(HGS)**



Visor Shield *(VS)**

* Requires Accessory mount lens *(A)* option.



Hexcell Louver *(HEX)*
(Available for either lens option)

Mounting Accessories *(ordered separately)*



RDBOX



RDCOV1



RDCOV2



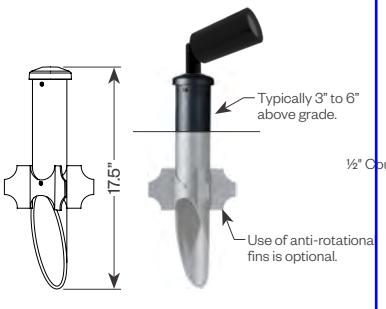
RTBOX



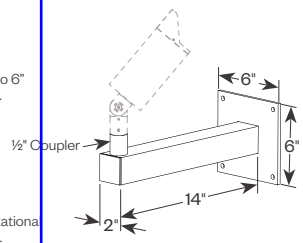
RTCOV1



RTCOV2



Ground Stake *(GSP-17)*
(Black Polycarbonate Only)



Wall Mount *(WMS14)*
Mounting hardware not included
EPA: 0.21

Rook X Accent

2" Exterior Adjustable Accent

PROJECT: **TYPE:**

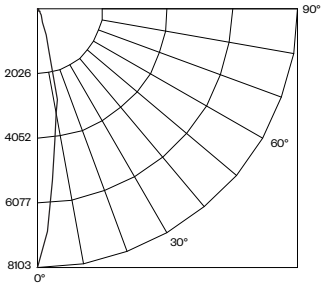
Performance Data

Multiplying Factors: *(Multiplying Factor is based on 3000K-83 120V IES file on website)*

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.87	0.90

Flush Lens

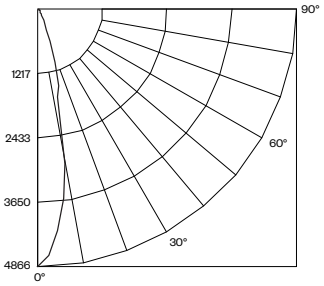
Spot (SP) Distribution, 17°
Lumens: 1093



Candelas

Deg	Candela
0	8103
5	5417
15	1328
25	136
35	53
45	31

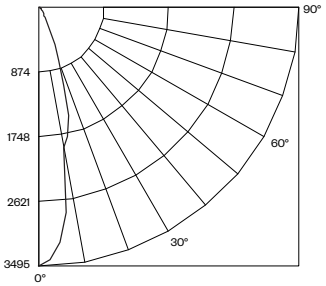
Narrow Flood (NF) Distribution, 22°
Lumens: 1026



Candelas

Deg	Candela
0	4866
5	4199
15	1502
25	242
35	70
45	35

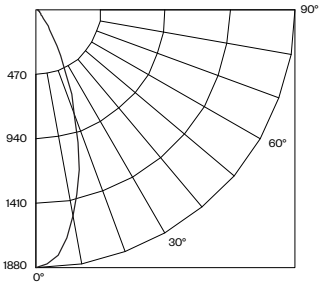
Flood (FL) Distribution, 28°
Lumens: 967



Candelas

Deg	Candela
0	3495
5	3190
15	1525
25	326
35	73
45	28

Wide Flood (WF) Distribution, 45°
Lumens: 986



Candelas

Deg	Candela
0	1880
5	1795
15	1211
25	515
35	147
45	50

Beam Spread	SP	NF	MFL	FL	WF	VWF	LS9060	LS6020
Description	Spot	Narrow Flood	Medium Flood	Flood	Wide Flood	Very Wide Flood	Asymmetric Linear Spread	Asymmetric Linear Spread
Nominal Degree	15	22	25	28	45	60	90x60	60x20
Lumens	**1093**	**1026**	**972**	**967**	**986**	**944**	**907**	**779**

Data shown for 3000K, 80 CRI. For other CCT and CRI options see pg 6.

Performance Data with Optional Shielding

Beam Spread	Accessory	Lumens	Note:
FL	w/o Shielding	962	Performance with shields varies greatly based on beam type. Consult factory for IES files with other beam types.
FL	w/FGS	868	
FL	w/HGS	896	
FL	w/VS	931	

Rook X Accent

2" Exterior Adjustable Accent

PROJECT: **TYPE:**

Dimming Compatibility

Amerlux® Rook® fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration *(Dimmer, Fixture Quantity, Voltage, etc)* may affect dimming performance.

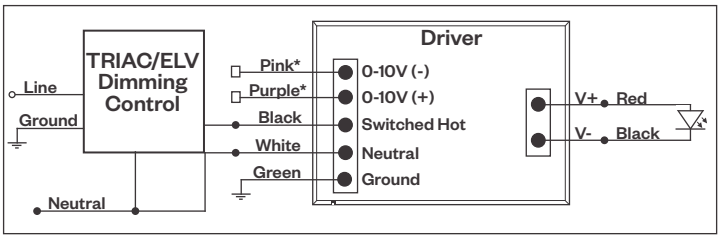
--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC (Forward Phase) DIMMING (Standard) or ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Notes:

- TRIAC/ELV dimming at 120V only (dimming to 1%)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

TRIAC or ELV Wiring Diagram



*** Pink & Purple wires are not used for TRIAC/ELV dimmer.**

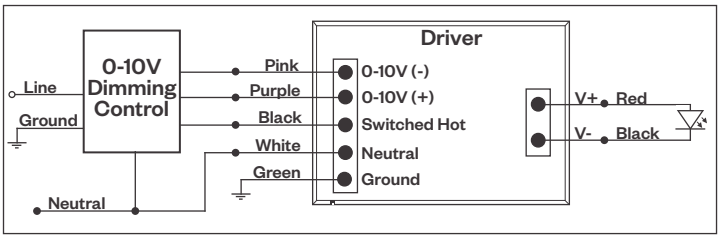
0-10V - DIMMING (-0-10V Option)

Integrates into a variety of building management and daylighting controls

Notes:

- 0-10V diming at 120V or 277V* (dimming to 2%)
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

0-10V Wiring Diagram



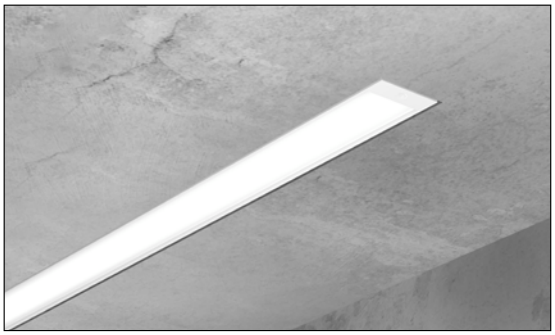
Notes:

* Driver is 277VAC dimmable with appropriate dimmer *(by others)*. All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

Extend 2

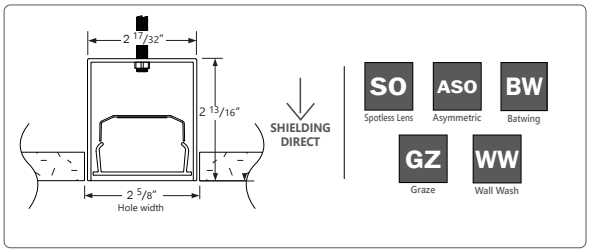
Recessed mount



Project _____

Type _____

Notes _____



PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1000 lm/ft	9.8 W/ft	101 lm/W	SO
750 lm/ft	7.2 W/ft	103 lm/W	GZ
750 lm/ft	7.4 W/ft	101 lm/W	ASO
1000 lm/ft	9.7 W/ft	102 lm/W	BW
750 lm/ft	7.4 W/ft	101 lm/W	WW

*Please consult factory for custom lumen output and wattage.

IC cULus Listed Type I.C. | IK10 | IP66 | cULus Listed | 5 YEAR LIMITED WARRANTY

Ordering Guide

EX2R

PRODUCT ID	NOM. LUM/FT	CRI	COLOR TEMP. (choose one)	SHIELDING DIRECT
EX2R Extend 2 Recessed	**300** 300 lm/ft - **min**	**80** 80 CRI	**27** 2700 K	**SO** spotless lens
	750 750 lm/ft - **max for GZ, WW, ASO***	**90** 90 CRI	**30** 3000 K	**GZ** graze
	1000 1000 lm/ft - **max**		**35** 3500 K	**WW** wallwash
			40 4000 K	**ASO** asymmetric
			50 5000 K	**BW** batwing
Ships with 7/8" hole standard for power connection by others if no optional power feed is specified, see page 3 for details.	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.			Choose only one of the options above;

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTING
2 2′	**AP** aluminum paint	**120** 120 V	**DP** dimming (0-10V) 1%	**1** 1 circuit	**DF** flange
3 3′	**W** white	**277** 277 V	**DPX** dimming (0-10V) 1%, extended	**2** 2 circuits	**D** flangeless
4 4′	**BLK** black	**347** 347 V*	temp. range (-40°C - +50°C)	**+E(#)** emergency circuit*	**DS** drywall spackle flange
5 5′	**C** custom	**UNV** universal	**LT(#)** Lutron*	**+NL(#)** night light circuit*	
6 6′	Powder coated BLACK		**BI** bi-level dimming	**+GTD(#)** generator transfer	
7 7′			**O(#)** other*	device* **	
8 8′					
12 12′					
S(L) System Run					
Lengths are nominal. Exact lengths can be specified, please consult factory.		*Remote surge protection device only	*Please consult factory; see page 2.	*Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.	

BATTERY (OPTIONAL)	IC CONTROLS (OPT.)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
B(#) battery pack (integral)*	**OS(#)** occupancy sensor	**+TF** top feed*	**C** custom
BR(#) battery pack (remote)**	**DOS(#)** daylight & occupancy sensor	**+EF** end feed*	
		+N natatorium finish	
*Minimum 3ft; **Dry/Damp location only. Please consult factory.	Specify quantity. Requires 8" blank. See integrated controls guide for more details.	7/8" diameter top power feed hole provided standard. See page 3 for more details. *Comes with liquid tight connector and 10ft of plenum rated power cable. Not available for 347 V.	Please specify

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Extend 2

Recessed mount

CONSTRUCTION

Housing	Extruded aluminum (0.08'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (18 gauge)
Gaskets	Silicone rubber
Lens Gaskets	Extruded elastomer
Lens	Extruded acrylic
Fasteners	All external fasteners are tamper proof TORX T20

OPTICS

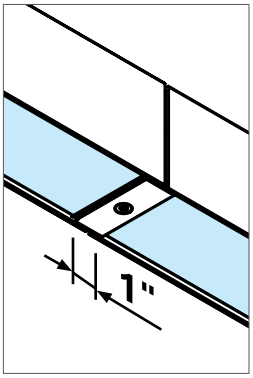


SO	Spotless lens;
ASO	Asymmetric Spotless lens;
WW	Wallwash;
BW	Batwing;
GZ	Graze.

Impact modified PMMA lens used for all shielding options.

SYSTEM (S(L))

Lengths of 2'-12' standalone are available. Runs of EXTEND2 that are greater than 12' in length are designated as systems (S(L)). System runs are comprised of a combination of 4' to 8' sections to be assembled on site using our joining system which includes a 1" sealed joiner plate. For more information on systems and joining, please refer to the EXTEND2 installation sheets available for download at www.axislighting.com.



WEIGHT

Recessed 4 ft	9 lbs / 4.1 kg
Recessed 8 ft	18 lbs / 8.2 kg
Recessed 12 ft	27 lbs / 12.3 kg

FINISHES

Powder coated and custom finishes are also available.

OTHER MOUNTING OPTIONS

EXTEND 2 is also available with pendant, surface and wall mounted options.

Specification sheets and installation sheets for all mountings for EXTEND 2 luminaires are available for download at www.axislighting.com

ELECTRICAL

DP	0-10V dimming driver. Ambient operating temperature -30°C - +40°C
DPX	0-10V dimming driver with extended temperature range (-40°C - +50°C)
Lutron driver	**LDE1** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black (min ambient operating temperature - 0°C (32°F).
Other drivers	**DALI*** - Digital Addressable Lighting Interface **DMX*** - Digital Multiplex **Xitanium SR*** - For wireless sensor

Choose driver from available options.
*** Ambient operating range: -20°C - +40°C**

Emergency	**B(#)** Integral Emergency Battery pack, 3ft minimum. Operating temperature (-20° to 50°C) for 120V to 277V; (0°C to 50°C) for 347V **BR(#)** Remote emergency battery pack operating temperature range (-20°C- +50°C) for 120V to 277V; (0°C - +50°C) for 347V.
Input Voltage	120V, 277V, 347V, UNV.
Surge Protection	Extend comes standard with surge protection device.

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CCT Single Color	Choice of 2700K, 3000K, 3500K, 4000K and 5000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and wet location rated IP66 for outdoor or indoor use. Impact resistant rated IK10. Vandal & ligature resistant (D and DS mounting)

APPROVALS

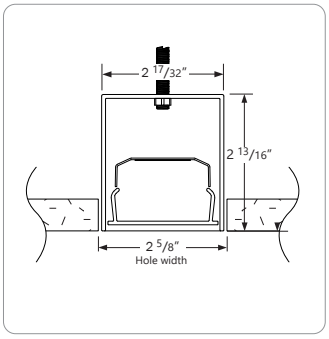
Certified wet locations to UL and CUL standards.
IP66 and IK10 rated.

WARRANTY

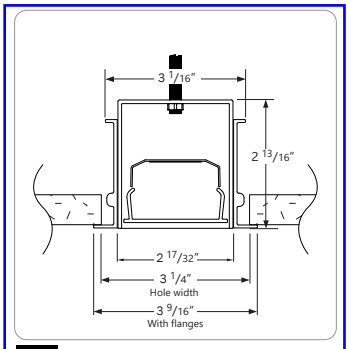
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

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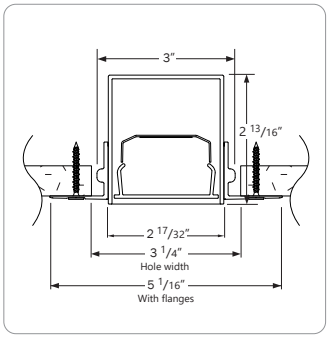
● CEILING MOUNTING OPTIONS



D **FLANGELESS WITH 1/4-20 STUD MOUNTING**

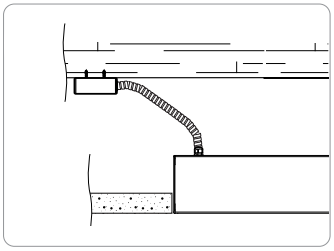


DF **VISIBLE FLANGES WITH 1/4-20 STUD MOUNTING**



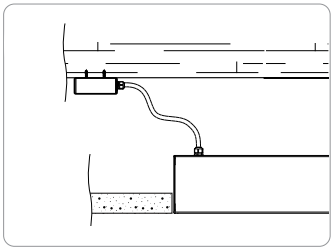
DS **SPACKLE FLANGES**

● POWER FEED



7/8" Diameter opening provided. Conduit and electrical connection by others.

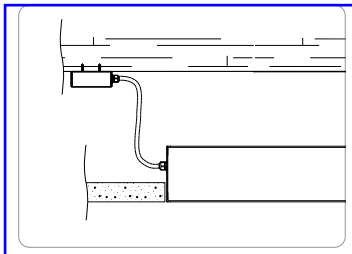
STANDARD



TF **TOP FEED**

OPTIONAL

Liquid tight connector and 10ft of plenum rated power cable provided.



EF **END FEED**

OPTIONAL

Liquid tight connector and 10ft of plenum rated power cable provided.

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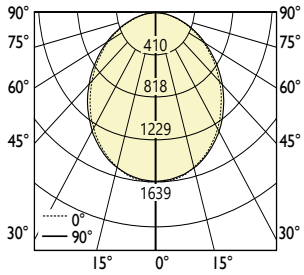
PHOTOMETRIC DATA

SO - Spotless lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 3982 lm (for 4ft)
Input Watts: 39.5 W
Efficacy: 101 lm/W
IES FILE: EX2R-1000-80-35-SO-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1639	1639	1639	1639	1639
5	1626	1621	1622	1620	1626
15	1539	1533	1532	1527	1526
25	1377	1370	1366	1355	1354
35	1165	1159	1150	1134	1134
45	928	923	916	898	897
55	687	682	677	658	657
65	451	445	440	425	421
75	224	221	216	203	203
85	44	43	39	33	33
90	3	3	3	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	154
10-20	432
20-30	630
30-40	722
40-50	709
50-60	608
60-70	439
70-80	233
80-90	54
90	

LUMINANCE DATA (cd/m²)

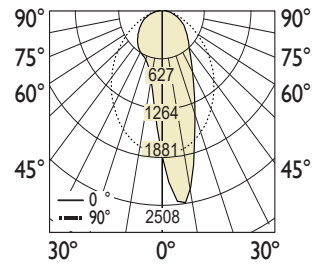
	Horizontal Angles		
Vertical Angle	0	45	90
45	37100	36644	35884
55	33888	33389	32377
65	30182	29417	28191
75	24519	23546	22127
85	14416	12814	10812

GZ Graze

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft 750 lm/ft
Total Lumens: 2971 lm (for 4ft)
Input Watts: 28.8 W
Efficacy: 103 lm/W
IES FILE: EX2R-750-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	2105	2105	2105	2105	2105
5	2092	2304	2435	2492	2508
15	1961	2361	2115	1824	1745
25	1688	1903	1381	1116	1062
35	1294	1295	869	749	738
45	849	786	585	571	583
55	510	462	401	424	438
65	280	263	250	272	276
75	126	122	121	123	117
85	26	27	27	25	25
90	3	3	2	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	190
10-20	453
20-30	544
30-40	534
40-50	468
50-60	371
60-70	254
70-80	128
80-90	30
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	16868	11615	11585
55	12499	9831	10726
65	9313	8296	9160
75	6836	6554	6362
85	4196	4398	4033

All IES files are available for download at: www.axislighting.com

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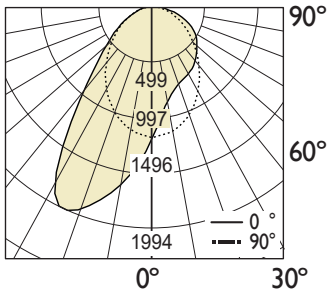
PHOTOMETRIC DATA

WW Walwash



750 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 2987 lm (for 4ft)
Input Watts: 29.6 W
Efficacy: 101 lm/W
IES FILE: EX2R-750-80-35-WW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1232	1232	1232	1232	1232
5	1222	1149	1097	1057	1052
15	1134	948	852	807	797
25	965	752	693	686	690
35	751	584	578	611	634
45	535	440	471	535	570
55	362	313	356	437	477
65	224	203	235	312	343
75	113	103	120	156	162
85	24	23	26	22	21
90	3	4	4	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	117
10-20	342
20-30	541
30-40	610
40-50	527
50-60	404
60-70	274
70-80	139
80-90	33
90	

LUMINANCE DATA (cd/m²)

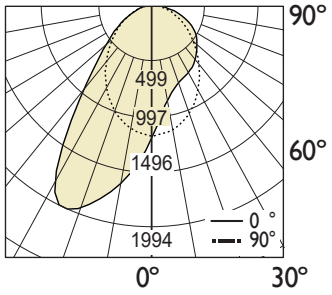
	Horizontal Angles		
Vertical Angle	0	45	90
45	10630	9359	11321
55	8858	8728	11689
65	7462	7806	11399
75	6114	6524	8813
85	3919	4146	3429

ASO Asymmetric



750 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 2987 lm (for 4ft)
Input Watts: 29.6 W
Efficacy: 101 lm/W
IES FILE: EX2R-750-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1232	1232	1232	1232	1232
5	1222	1149	1097	1057	1052
15	1134	948	852	807	797
25	965	752	693	686	690
35	751	584	578	611	634
45	535	440	471	535	570
55	362	313	356	437	477
65	224	203	235	312	343
75	113	103	120	156	162
85	24	23	26	22	21
90	3	4	4	3	3

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	117
10-20	342
20-30	541
30-40	610
40-50	527
50-60	404
60-70	274
70-80	139
80-90	33
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	10630	9359	11321
55	8858	8728	11689
65	7462	7806	11399
75	6114	6524	8813
85	3919	4146	3429

All IES files for other lamping are available for download at: www.axislighting.com

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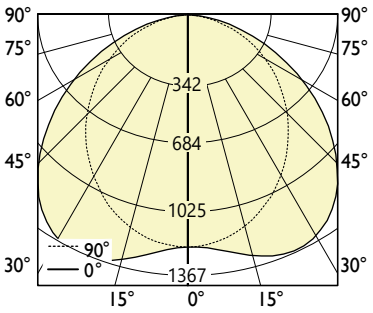
PHOTOMETRIC DATA

BW Batwing

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft 1000 lm/ft
Luminaire Lumens: 3990 lm
Input Watts: 39.1 W
Efficacy: 102 lm/W
IES FILE: EX2R-1000-80-35-BW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1191	1191	1191	1191	1191
5	1184	1187	1194	1201	1204
15	1128	1150	1207	1263	1285
25	1024	1076	1200	1314	1357
35	885	961	1139	1279	1329
45	727	809	1003	1128	1163
55	555	626	796	877	895
65	376	422	539	576	575
75	191	212	265	262	258
85	39	43	46	37	38
90	4	4	4	5	5

ZONAL LUMENS

Zone	Lumens
0	
0-10	114
10-20	342
20-30	553
30-40	705
40-50	755
50-60	684
60-70	508
70-80	268
80-90	60
90	

LUMINANCE DATA (cd/m²)

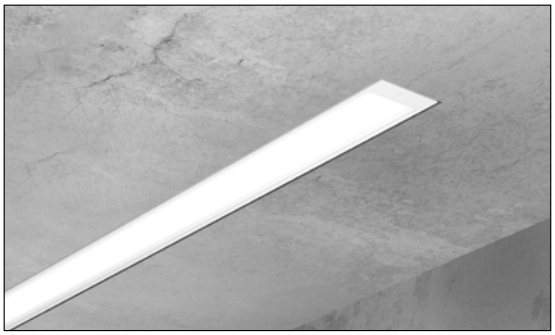
	Horizontal Angles		
Vertical Angle	0	45	90
45	14449	19916	23111
55	13600	19496	21913
65	12488	17902	19111
75	10375	14386	14000
85	6255	7386	6081

All IES files for other lamping are available for download at: www.axislighting.com

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Extend 2

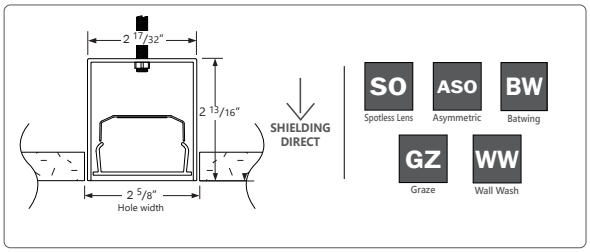
Recessed mount



Project _____

Type _____

Notes _____



PERFORMANCE PER LINEAR FOOT AT 3500K, 80 CRI

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY	SHIELDING
1000 lm/ft	9.8 W/ft	101 lm/W	SO
750 lm/ft	7.2 W/ft	103 lm/W	GZ
750 lm/ft	7.4 W/ft	101 lm/W	ASO
1000 lm/ft	9.7 W/ft	102 lm/W	BW
750 lm/ft	7.4 W/ft	101 lm/W	WW

*Please consult factory for custom lumen output and wattage.

IC cULus Listed Type I.C. · IK10 · IP66 · cULus Listed · 5 Year Limited Warranty

Ordering Guide

EX2R

PRODUCT ID	NOM. LUM/FT	CRI	COLOR TEMP. (choose one)	SHIELDING DIRECT
EX2R Extend 2 Recessed	**300** 300 lm/ft - **min**	**80** 80 CRI	**27** 2700 K	**SO** spotless lens
	750 750 lm/ft - **max for GZ, WW, ASO***	**90** 90 CRI	**30** 3000 K	**GZ** graze
	1000 1000 lm/ft - **max**		**35** 3500 K	**WW** wallwash
			40 4000 K	**ASO** asymmetric
			50 5000 K	**BW** batwing
Ships with 7/8" hole standard for power connection by others if no optional power feed is specified, see page 3 for details.	Outputs between listed min and max are available. * 750 lm/ft max. only for GZ, WW and ASO. Consult factory for outputs outside of the listed range.			Choose only one of the options above;

LENGTH (FT)	FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTING
2 2′	**AP** aluminum paint	**120** 120 V	**DP** dimming (0-10V) 1%	**1** 1 circuit	**DF** flange
3 3′	**W** white	**277** 277 V	**DPX** dimming (0-10V) 1%, extended temp. range (-40°C - +50°C)	**2** 2 circuits	**D** flangeless
4 4′	**BLK** black	**347** 347 V*	**LT(#)** Lutron*	**+E(#)** emergency circuit*	**DS** drywall spackle flange
5 5′	**C** custom Powder coated BLACK	**UNV** universal	**BI** bi-level dimming	**+NL(#)** night light circuit*	
6 6′			**O(#)** other*	**+GTD(#)** generator transfer device* **	
7 7′					
8 8′					
12 12′					
S(L) System Run					
Lengths are nominal. Exact lengths can be specified, please consult factory.		*Remote surge protection device only	*Please consult factory; see page 2.	*Specify quantity. Minimum 3ft fixture length. ** 120V and 277V only. Please specify.	

BATTERY (OPTIONAL)	IC CONTROLS (OPT.)	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
B(#) battery pack (integral)*	**OS(#)** occupancy sensor	**+TF** top feed*	**C** custom
BR(#) battery pack (remote)**	**DOS(#)** daylight & occupancy sensor	**+EF** end feed*	
		+N natatorium finish	
*Minimum 3ft; **Dry/Damp location only. Please consult factory.	Specify quantity. Requires 8" blank. See integrated controls guide for more details.	7/8" diameter top power feed hole provided standard. See page 3 for more details. *Comes with liquid tight connector and 10ft of plenum rated power cable. Not available for 347 V.	Please specify

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Extend 2

Recessed mount

CONSTRUCTION

Housing	Extruded aluminum (0.08'' nominal) Up to 70% recycled content
End Cap	Cast aluminum
Interior Brackets	Die formed sheet steel (18 gauge)
Gaskets	Silicone rubber
Lens Gaskets	Extruded elastomer
Lens	Extruded acrylic
Fasteners	All external fasteners are tamper proof TORX T20

OPTICS

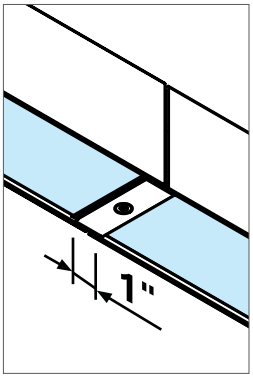


SO	Spotless lens;
ASO	Asymmetric Spotless lens;
WW	Wallwash;
BW	Batwing;
GZ	Graze.

Impact modified PMMA lens used for all shielding options.

SYSTEM (S(L))

Lengths of 2'-12' standalone are available. Runs of EXTEND2 that are greater than 12' in length are designated as systems (S(L)). System runs are comprised of a combination of 4' to 8' sections to be assembled on site using our joining system which includes a 1" sealed joiner plate. For more information on systems and joining, please refer to the EXTEND2 installation sheets available for download at www.axislighting.com.



WEIGHT

Recessed 4 ft	9 lbs / 4.1 kg
Recessed 8 ft	18 lbs / 8.2 kg
Recessed 12 ft	27 lbs / 12.3 kg

FINISHES

Powder coated and custom finishes are also available.

OTHER MOUNTING OPTIONS

EXTEND 2 is also available with pendant, surface and wall mounted options.

Specification sheets and installation sheets for all mountings for EXTEND 2 luminaires are available for download at www.axislighting.com

ELECTRICAL

DP	0-10V dimming driver. Ambient operating temperature -30°C - +40°C
DPX	0-10V dimming driver with extended temperature range (-40°C - +50°C)
Lutron driver	**LDE1** - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black (min ambient operating temperature - 0°C (32°F).
Other drivers	**DALI*** - Digital Addressable Lighting Interface **DMX*** - Digital Multiplex **Xitanium SR*** - For wireless sensor

Choose driver from available options.
*** Ambient operating range: -20°C - +40°C**

Emergency	**B(#)** Integral Emergency Battery pack, 3ft minimum. Operating temperature (-20° to 50°C) for 120V to 277V; (0°C to 50°C) for 347V **BR(#)** Remote emergency battery pack operating temperature range (-20°C- +50°C) for 120V to 277V; (0°C - +50°C) for 347V.
Input Voltage	120V, 277V, 347V, UNV.
Surge Protection	Extend comes standard with surge protection device.

Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

LED SYSTEM

CRI	Minimum 80 or 90 color rendering index.
CCT Single Color	Choice of 2700K, 3000K, 3500K, 4000K and 5000K color temperature with a great color consistency (within 3–step MacAdam ellipse). Both within fixture and fixture to fixture.
LED life	Minimum 50,000h with 85% of lumen maintenance in 25^{0}C ambient temperature, in compliance with IES LM-80 testing measurements.
Thermal Management	Aluminum housing acting as the heat sink to maximize life.
Environment	Dry and wet location rated IP66 for outdoor or indoor use. Impact resistant rated IK10. Vandal & ligature resistant (D and DS mounting)

APPROVALS

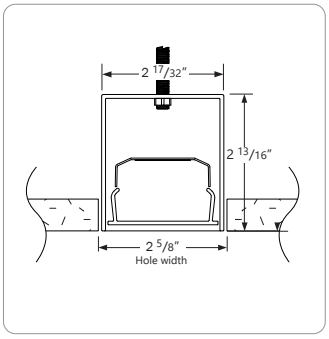
Certified wet locations to UL and CUL standards.
IP66 and IK10 rated.

WARRANTY

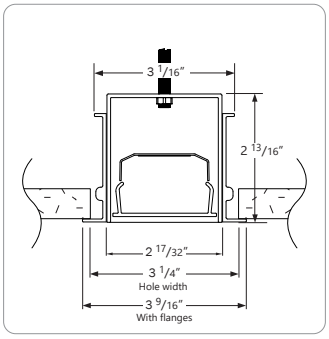
Limited 5-year warranty is available. Warranty is valid provided luminaires are installed and used according to specifications. For full terms and conditions, please consult warranty section at axislighting.com.

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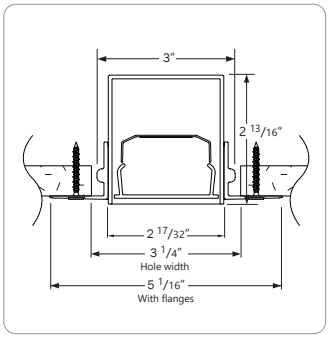
● CEILING MOUNTING OPTIONS



D **FLANGELESS WITH 1/4-20 STUD MOUNTING**

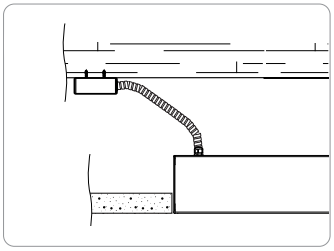


DF **VISIBLE FLANGES WITH 1/4-20 STUD MOUNTING**



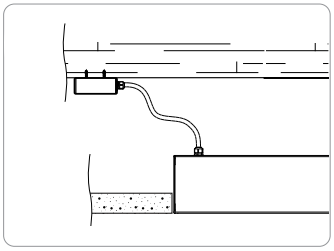
DS **SPACKLE FLANGES**

● POWER FEED



7/8" Diameter opening provided. Conduit and electrical connection by others.

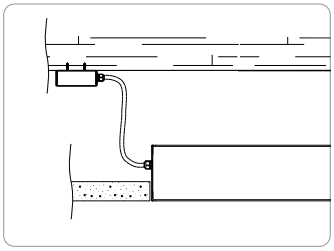
STANDARD



TF **TOP FEED**

OPTIONAL

Liquid tight connector and 10ft of plenum rated power cable provided.



EF **END FEED**

OPTIONAL

Liquid tight connector and 10ft of plenum rated power cable provided.

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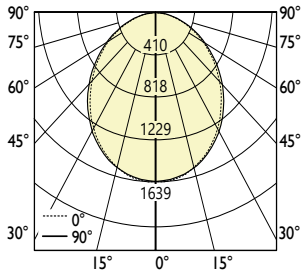
PHOTOMETRIC DATA

SO - Spotless lens

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft: 1000 lm/ft
Total Lumens: 3982 lm (for 4ft)
Input Watts: 39.5 W
Efficacy: 101 lm/W
IES FILE: EX2R-1000-80-35-SO-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1639	1639	1639	1639	1639
5	1626	1621	1622	1620	1626
15	1539	1533	1532	1527	1526
25	1377	1370	1366	1355	1354
35	1165	1159	1150	1134	1134
45	928	923	916	898	897
55	687	682	677	658	657
65	451	445	440	425	421
75	224	221	216	203	203
85	44	43	39	33	33
90	3	3	3	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	154
10-20	432
20-30	630
30-40	722
40-50	709
50-60	608
60-70	439
70-80	233
80-90	54
90	

LUMINANCE DATA (cd/m²)

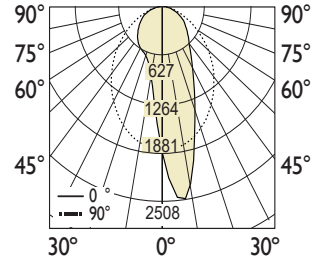
	Horizontal Angles		
Vertical Angle	0	45	90
45	37100	36644	35884
55	33888	33389	32377
65	30182	29417	28191
75	24519	23546	22127
85	14416	12814	10812

GZ Graze

750 lm/ft



PHOTOMETRIC CURVE



Lumen/ft 750 lm/ft
Total Lumens: 2971 lm (for 4ft)
Input Watts: 28.8 W
Efficacy: 103 lm/W
IES FILE: EX2R-750-80-35-GZ-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	2105	2105	2105	2105	2105
5	2092	2304	2435	2492	2508
15	1961	2361	2115	1824	1745
25	1688	1903	1381	1116	1062
35	1294	1295	869	749	738
45	849	786	585	571	583
55	510	462	401	424	438
65	280	263	250	272	276
75	126	122	121	123	117
85	26	27	27	25	25
90	3	3	2	2	2

ZONAL LUMENS

Zone	Lumens
0	
0-10	190
10-20	453
20-30	544
30-40	534
40-50	468
50-60	371
60-70	254
70-80	128
80-90	30
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	16868	11615	11585
55	12499	9831	10726
65	9313	8296	9160
75	6836	6554	6362
85	4196	4398	4033

All IES files are available for download at: www.axislighting.com

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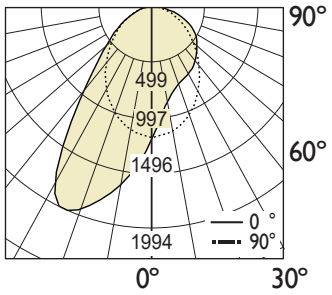
PHOTOMETRIC DATA

WW Walwash



750 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 2987 lm (for 4ft)
Input Watts: 29.6 W
Efficacy: 101 lm/W
IES FILE: EX2R-750-80-35-WW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1232	1232	1232	1232	1232
5	1222	1149	1097	1057	1052
15	1134	948	852	807	797
25	965	752	693	686	690
35	751	584	578	611	634
45	535	440	471	535	570
55	362	313	356	437	477
65	224	203	235	312	343
75	113	103	120	156	162
85	24	23	26	22	21
90	3	4	4	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	117
10-20	342
20-30	541
30-40	610
40-50	527
50-60	404
60-70	274
70-80	139
80-90	33
90	

LUMINANCE DATA (cd/m²)

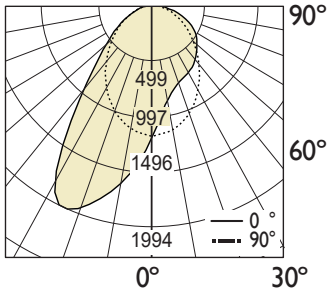
	Horizontal Angles		
Vertical Angle	0	45	90
45	10630	9359	11321
55	8858	8728	11689
65	7462	7806	11399
75	6114	6524	8813
85	3919	4146	3429

ASO Asymmetric



750 lm/ft

PHOTOMETRIC CURVE



Lumen/ft: 750 lm/ft
Total Lumens: 2987 lm (for 4ft)
Input Watts: 29.6 W
Efficacy: 101 lm/W
IES FILE: EX2R-750-80-35-ASO-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1232	1232	1232	1232	1232
5	1222	1149	1097	1057	1052
15	1134	948	852	807	797
25	965	752	693	686	690
35	751	584	578	611	634
45	535	440	471	535	570
55	362	313	356	437	477
65	224	203	235	312	343
75	113	103	120	156	162
85	24	23	26	22	21
90	3	4	4	3	3

ZONAL LUMENS

Zone	Lumens
0	
0-10	117
10-20	342
20-30	541
30-40	610
40-50	527
50-60	404
60-70	274
70-80	139
80-90	33
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	10630	9359	11321
55	8858	8728	11689
65	7462	7806	11399
75	6114	6524	8813
85	3919	4146	3429

All IES files for other lamping are available for download at: www.axislighting.com

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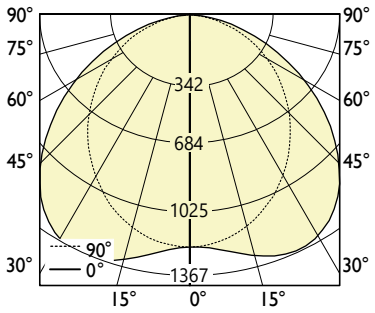
PHOTOMETRIC DATA

BW Batwing

1000 lm/ft



PHOTOMETRIC CURVE



Lumen/ft 1000 lm/ft
Luminaire Lumens: 3990 lm
Input Watts: 39.1 W
Efficacy: 102 lm/W
IES FILE: EX2R-1000-80-35-BW-4.IES

TESTED ACCORDING TO IES LM-79-2019

CANDELA DISTRIBUTION

	Horizontal Angles				
Vertical Angle	0	22.5	45	67.5	90
0	1191	1191	1191	1191	1191
5	1184	1187	1194	1201	1204
15	1128	1150	1207	1263	1285
25	1024	1076	1200	1314	1357
35	885	961	1139	1279	1329
45	727	809	1003	1128	1163
55	555	626	796	877	895
65	376	422	539	576	575
75	191	212	265	262	258
85	39	43	46	37	38
90	4	4	4	5	5

ZONAL LUMENS

	Lumens
Zone	
0	
0-10	114
10-20	342
20-30	553
30-40	705
40-50	755
50-60	684
60-70	508
70-80	268
80-90	60
90	

LUMINANCE DATA (cd/m²)

	Horizontal Angles		
Vertical Angle	0	45	90
45	14449	19916	23111
55	13600	19496	21913
65	12488	17902	19111
75	10375	14386	14000
85	6255	7386	6081

All IES files for other lamping are available for download at: www.axislighting.com

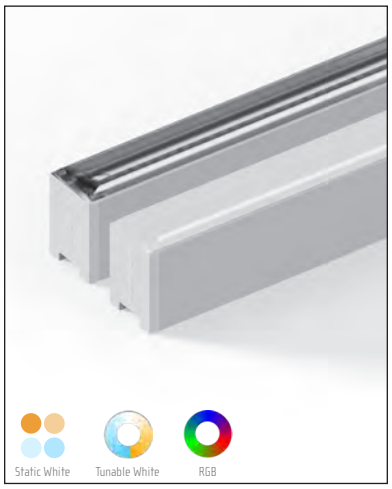
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ADONIS Architectural IP67 Static White/Tunable White/RGB

LED LINEAR
A Fagerhult Group Company

E10



With its powerful light engine within a miniaturized design, the ADONIS Architectural emphasizes the architectural features of building structures. Thanks to its perfect integration, this luminaire is ideal for grazing applications as well as for direct lighting on facades and ceilings.

- A multitude of options include several power levels and color temperatures plus options in tunable white, RGB/W as well as 10°, 30°, 60° and opal optics to choose from.
- Polyurethane is utilized in ADONIS Architectural to make it more resistant to impact from saltwater UV-light and solvents. High protection against vandalism thanks to a robust, powder-coated aluminum profile with an IK10 rating.
- The choice between non-transparent and translucent end caps combined with smart lighting cabling and mounting options enables seamless light lines.

Project name

Specifier

Fixture Type

Date

REEL-TO-REEL R2R PRODUCTION	TJAWAY® THERMAL MANAGEMENT	ONE BIN ONLY	ROLL-OVER	
High Quality Solder Free Reels	Exceptional Thermal Dissipation	3 MacAdam up to 97 CRI	Roll-Over	ETL Listed

INTEGRATED CIRCUIT DRIVER	L/B LIFETIME	IES LM79/LM80	INGROUND	6 DIGIT PHOTOMETRIC CODE
Up to 1000 lm/ft 112 lm/W constant light output	L80/B10 >60,000 hrs /RGB >30,000 hrs	LM79/LM80 Compliant	Inground	Wxxx/ 339

FIXTURE ORDER CODE - Optics

Example Order Code: ADONIS HE 05 W818 W 10E MO S SH IP67

Family	Model	Power	Color Temp.	Length*	Finish	Optics	Cable Configurator	Type	Mounting Type***	Ingress
ADONIS	___	__					__			IP67
	HE - High Efficiency (Static White)	05 - 1.5 w/ft	W818 - 1800K	See Page 4	W - White	10E - 10°	DC - Daisy Chain	S - Stand Alone	SH - Horizontal Mounting Clips	
		10 - 3.1 w/ft	W822 - 2200K		B - Black	30E - 30°	MO - Male One Side Only	B - Beginning	SV - Vertical Mounting Clips	
		15 - 4.6 w/ft	W825 - 2500K		G - Gray	60E - 60°	OO - Open End One Side	M - Middle	SA - Adjustable Brackets	
		20 - 6 w/ft	W827 - 2700K				OT - Open End Two Sides	E - End	ML - Mounting Locks	
		28 - 8.5 w/ft	W830 - 3000K						A0 - Adjustable Arm 40mm/0.13ft	
		36 - 11 w/ft	W835 - 3500K						A1 - Adjustable Arm 100mm/0.33ft	
			W840 - 4000K						A2 - Adjustable Arm 200mm/0.66ft	
									A3 - Adjustable Arm 300mm/0.98ft	
	IQ - IQ White (Tunable White)	HD12 - 3.6 w/ft	2240							
		HD24 - 7.3 w/ft								
									X - No Mounting/Inground Installation Refer to page x for inground accessories; sold seperately	
	RGB	HD20 - 6 w/ft	XX							

* Optic Version NOT Dot Free
* Gray and Black finishes may result in a 5% Light Loss

FIXTURE ORDER CODE - Opal

Example Order Code: ADONIS HE 05 W818 W OL OO S SH IP67

Family	Model	Power	Color Temp.	Length*	Finish	Optics	Cable Configurator	Type	Mounting Type***	Ingress
ADONIS	___	__					__			IP67
	HE - High Efficiency (Static White)	05 - 1.5 w/ft	W818 - 1800K	See Page 4	W - White	OL - Opal (Dot Free)	DC - Daisy Chain	S - Stand Alone	SH - Horizontal Mounting Clips	
		10 - 3.1 w/ft	W821 - 2100K		B - Black		MO - Male One Side Only	B - Beginning	SV - Vertical Mounting Clips	
		15 - 4.6 w/ft	W824 - 2400K		G - Gray		OO - Open End One Side	M - Middle	SA - Adjustable Brackets	
		20 - 6 w/ft	W826 - 2600K				OT - Open End Two Sides	E - End	ML - Mounting Locks	
		28 - 8.5 w/ft	W829 - 2900K						A0 - Adjustable Arm 40mm/0.13ft	
		36 - 11 w/ft	W833 - 3300K						A1 - Adjustable Arm 100mm/0.33ft	
			W838 - 3800K						A2 - Adjustable Arm 200mm/0.66ft	
									A3 - Adjustable Arm 300mm/0.98ft	
	IQ - IQ White (Tunable White)	HD12 - 3.6 w/ft	2138							
		HD24 - 7.3 w/ft								
									X - No Mounting/Inground Installation Refer to page x for inground accessories; sold seperately	
	RGB	HD20 - 6 w/ft	XX							

ADONIS Architectural IP67 Static White/Tunable White/RGB

LED LINEAR
A Fagerhult Group Company

Luminaire lumens/foot (lm/ft)[A]

ADONIS ARCHITECTURAL SW HE		HE05		HE10		HE15		HE20		HE28		HE36	
		1.5 W/ft		3 W/ft		4.5 W/ft		6 W/ft		8.5 W/ft		11 W/ft	
CCT	CRI80	OPTICS	OPAL	OPTICS	OPAL	OPTICS	OPAL	OPTICS	OPAL	OPTICS	OPAL	OPTICS	OPAL
W818	1,800K	106	60	254	143	376	211	512	288	725	408	983	553
W822	2,200K	129	73	292	164	423	239	597	336	868	487	1137	638
W825	2,500K	138	77	321	181	475	268	649	364	934	525	1236	695
W827	2,700K	143	80	339	192	490	275	687	387	967	544	1307	734
W830	3,000K	149	83	358	201	519	292	699	393	1009	568	1356	762
W835	3,500K	152	85	361	202	524	295	716	403	1068	600	1399	788
W840	4,000K	155	88	365	205	536	301	730	411	1100	618	1442	810

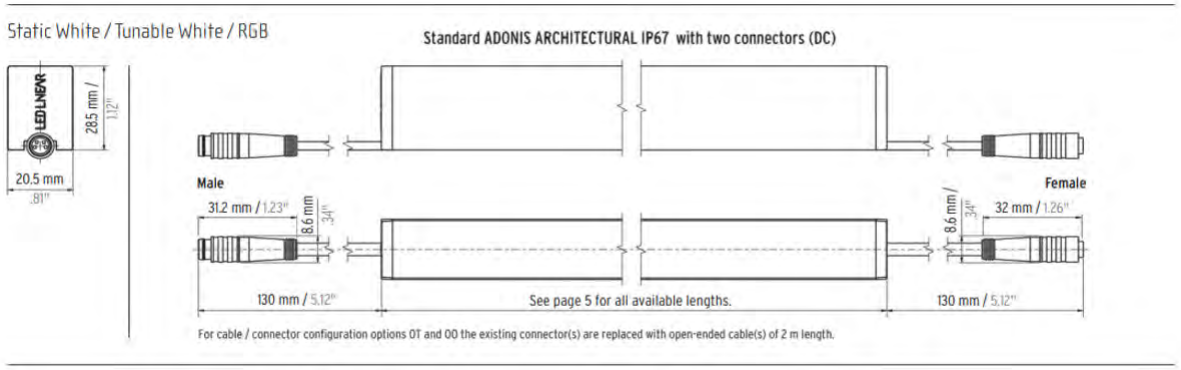
* Grey and Black Finishes result in an apr. 5% light loss
* Opal Finish may result in an apr. 5% warmer delivered CCT of shift

					HD12		HD20		HD24	
			Color Temperature	CCT (Delivered)[A]	Lumen/ft[B]	W/ft[C]	Lumen/ft[B]	W/ft[C]	Lumen/ft[B]	W/ft[C]
TUNABLE WHITE	10/30/60 Degree Optics/ Opal Optics		2240 / 2138	2,200 K / 2,100 K	146 / 82	1.8	-	-	295 / 168	3.6
			2240 / 2138	4,000 K / 3,800 K	171/ 99	1.8	-	-	378 / 214	3.6
			Total	-	317 / 181	3.6	-	-	673 / 382	7.2
RGB	10/30/60 Degree Optics/ Opal Optics		RGB Red		-	-	63 / 24	2.2	-	-
			RGB Green	622 nm	-	-	151 / 57	2.2	-	-
			RGB Blue	532 nm	-	-	29 / 11	2.2	-	-
			RGB Total	466 nm	-	-	244 / 91	6.7	-	-
				-						

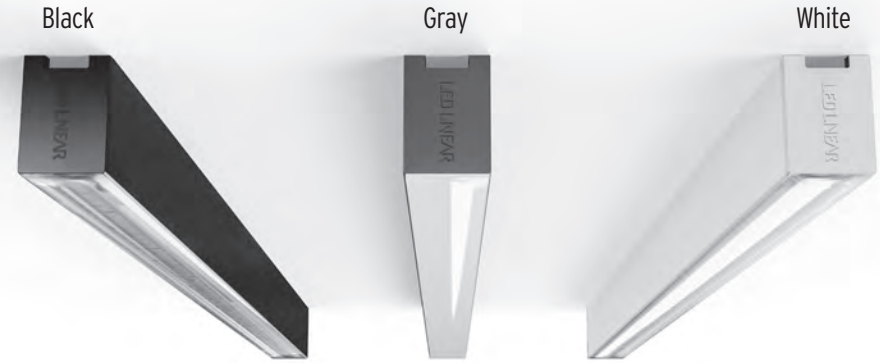
	STATIC WHITE						TUNABLE WHITE		RGB
DEGREE OPTICS	HE05	HE10	HE15	HE20	HE28	HE36	HD12	HD24	HD20
Power (W/ft)[A]/ (W/m)[A]	1.5/5	3..1/10	4.6/15	6/20	8.5/28	11/36	3,6/12	7.3/24	6/20
Efficacy (lm/W)[A]	99	115	117	120	130	131	71	74	30
max. length (ft/m)	13/4.02	13/4.02	13/4.02	13/4.02	13/4.02	10/3.0	13/4.02	13/4.02	13/4.02
max. serial length (ft/m)	39/12.0	26/8.0	23/7.0	16/5.0	13/4.0	10/3.0	16/5.0	13/4.0	13/4.0
CRI/R9 (Up to)	85 / 19	85 / 19	85 / 19	85 / 19	85 / 19	85 / 19	95 / 76	95 / 76	-
Temperature Tc-point (Tc_{max})[C]	158°F/70°C	158°F/70°C	158°F/70°C	167°F/75°C	185°F/85°C	185°F/85°C	158°F/70°C	167°F/75°C	158°F/70°C
max. Ambient Temperature (Tc_{max})	122°F/50°C	122°F/50°C	122°F/50°C	113°F/45°C	104°F/35°C	95°F/35°C	122°F/50°C	104°F/40°C	113°F/45°C

	STATIC WHITE						TUNABLE WHITE		RGB
OPAL OPTICS	HE05	HE10	HE15	HE20	HE28	HE36	HD12	HD24	HD20
Power (W/ft)[A]/ (W/m)[A]	1.5/5	3.1/10	4.6/15	6/20	8.5/28	11/36	3.6/12	7.3/24	6/20
Efficacy (lm/W)[A]	56	65	66	68	73	74	33	35	7
max. length (ft/m)	13/4.02	13/4.02	13/4.02	13/4.02	13/4.02	10/3.0	13/4.02	13/4.02	13/4.02
max. serial length (ft/m)	39/12.0	26/8.0	23/7.0	16/5.0	13/4.0	10/3.0	16/5.0	13/4.0	13/4.0
CRI/R9 (Up to)	85 / 19	85 / 19	85 / 19	85 / 19	85 / 19	85 / 19	95 / 76	95 / 76	-
Temperature Tc-point (Tc_{max})[C]	158°F/70°C	158°F/70°C	158°F/70°C	167°F/75°C	185°F/85°C	185°F/85°C	158°F/70°C	167°F/75°C	158°F/70°C
max. Ambient Temperature (Tc_{max})	122°F/50°C	122°F/50°C	122°F/50°C	113°F/45°C	104°F/35°C	95°F/35°C	122°F/50°C	104°F/40°C	113°F/45°C

DIMENSIONS



AVAILABLE FINISHES



LENGTH CHART - ADONIS ARCHITECTURAL IP67 - STATIC WHITE

Fixture Length		HE05		HE10		HE15		HE20		HE28		HE36	
Feet	mm	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft
1.67	514	3	248	5	597	8	865	10	1165	14	1682	18	2260
1.92	639	3	286	6	686	9	995	12	1340	16	1934	21	2599
2.30	702	3	343	7	824	10	1194	14	1609	20	2322	25	3121
2.51	764	4	373	8	897	11	1301	15	1752	21	2529	28	3399
2.71	827	4	404	8	971	12	1407	16	1895	23	2736	30	3677
2.92	889	4	435	9	1044	13	1514	18	2039	25	2943	32	3955
3.12	952	5	465	9	1118	14	1620	19	2182	27	3150	34	4233
3.33	1014	5	496	10	1191	15	1727	20	2325	28	3357	37	4511
3.53	1077	5	526	11	1264	16	1833	21	2469	30	3564	39	4789
3.74	1139	6	557	11	1338	17	1939	22	2612	32	3771	41	5067
3.94	1202	6	587	12	1411	18	2046	24	2755	34	3977	43	5345
4.15	1264	6	618	12	1485	19	2152	25	2899	35	4184	46	5623
4.35	1327	7	648	13	1558	20	2259	26	3042	37	4391	48	5901
4.56	1389	7	679	14	1631	21	2365	27	3185	39	4598	50	6179
4.76	1452	7	710	14	1705	21	2472	29	3329	40	4805	52	6457
4.97	1514	7	740	15	1778	22	2578	30	3472	42	5012	55	6736
5.17	1577	8	771	16	1852	23	2684	31	3615	44	5219	57	7014
5.38	1639	8	801	16	1925	24	2791	32	3759	46	5426	59	7292
5.58	1702	8	832	17	1998	25	2897	33	3902	47	5633	61	7570
5.79	1764	9	862	17	2072	26	3004	35	4045	49	5839	64	7848
5.99	1827	9	893	18	2145	27	3110	36	4189	51	6046	66	8126
6.20	1889	9	923	19	2219	28	3217	37	4332	53	6253	68	8404
6.40	1952	10	954	19	2292	29	3323	38	4475	54	6460	70	8682
6.61	2014	10	985	20	2366	30	3429	40	4619	56	6667	73	8960
6.81	2077	10	1015	20	2439	31	3536	41	4762	58	6874	75	9238
7.02	2139	11	1046	21	2512	32	3642	42	4905	60	7081	77	9516
7.22	2202	11	1076	22	2586	33	3749	43	5049	61	7288	79	9794
7.43	2264	11	1107	22	2659	33	3855	45	5192	63	7495	82	10072
7.63	2327	11	1137	23	2733	34	3961	46	5335	65	7702	84	10350
7.84	2389	12	1168	24	2806	35	4068	47	5479	67	7908	86	10628
8.04	2452	12	1198	24	2879	36	4174	48	5622	68	8115	88	10906
8.25	2514	12	1229	25	2953	37	4281	49	5765	70	8322	91	11184
8.45	2577	13	1260	25	3026	38	4387	51	5909	72	8529	93	11462
8.66	2639	13	1290	26	3100	39	4494	52	6052	74	8736	95	11740
8.86	2702	13	1321	27	3173	40	4600	53	6195	75	8943	97	12018
9.07	2764	14	1351	27	3246	41	4706	54	6339	77	9150	100	12297
9.27	2827	14	1382	28	3320	42	4813	56	6482	79	9357	102	12575
9.48	2889	14	1412	28	3393	43	4919	57	6625	81	9564	104	12853
9.68	2952	15	1443	29	3467	44	5026	58	6769	82	9771	107	13131
9.89	3014	15	1473	30	3540	44	5132	59	6912	84	9977	109	13409
10.09	3077	15	1504	30	3613	45	5239	61	7055	86	10184	111	13687
10.30	3139	15	1534	31	3687	46	5345	62	7199	88	10391	113	13965
10.50	3202	16	1565	32	3760	47	5451	63	7342	89	10598	116	14243
10.71	3264	16	1596	32	3834	48	5558	64	7485	91	10805	118	14521
10.91	3327	16	1626	33	3907	49	5664	65	7629	93	11012	120	14799
11.12	3389	17	1657	33	3981	50	5771	67	7772	95	11219	122	15077
11.32	3452	17	1687	34	4054	51	5877	68	7915	96	11426	125	15355
11.53	3514	17	1718	35	4127	52	5983	69	8059	98	11633	127	15633
11.73	3577	18	1748	35	4201	53	6090	70	8202	100	11840	129	15911
11.94	3639	18	1779	36	4274	54	6196	72	8345	101	12046	131	16189
12.14	3702	18	1809	36	4348	55	6303	73	8489	103	12253	134	16467
12.35	3764	19	1840	37	4421	56	6409	74	8632	105	12460	136	16745
12.55	3827	19	1871	38	4494	56	6516	75	8775	107	12667	138	17023
12.76	3889	19	1901	38	4568	57	6622	77	8919	108	12874	140	17301
12.96	3952	19	1932	39	4641	58	6728	78	9062	110	13081	143	17580

*** based on white finish, optics and 3000K**

LENGTH CHART - ADONIS ARCHITECTURAL IP67 - TUNABLE WHITE / RGB

Fixture Length		IQ HD12		IQ HD24		RGB HD20	
Feet	mm	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft	Watts/ Fixture	Lumens/Fixture lm/ft
1.67	514	6	528	12	1122	10	407
1.92	639	7	608	14	1290	12	468
2.30	702	9	730	17	1549	14	562
2.51	764	9	795	18	1687	15	612
2.71	827	10	860	20	1825	16	662
2.92	889	11	925	21	1963	18	712
3.12	952	12	990	23	2101	19	762
3.33	1014	12	1055	24	2239	20	812
3.53	1077	13	1120	26	2377	21	862
3.74	1139	14	1185	27	2515	22	912
3.94	1202	15	1250	29	2653	24	962
4.15	1264	15	1315	30	2791	25	1012
4.35	1327	16	1380	32	2929	26	1062
4.56	1389	17	1445	33	3067	27	1112
4.76	1452	18	1510	35	3205	29	1162
4.97	1514	18	1575	36	3343	30	1212
5.17	1577	19	1640	38	3481	31	1262
5.38	1639	20	1705	39	3619	32	1312
5.58	1702	21	1770	41	3757	33	1362
5.79	1764	21	1835	42	3895	35	1412
5.99	1827	22	1900	44	4033	36	1462
6.20	1889	23	1965	45	4171	37	1512
6.40	1952	24	2030	47	4309	38	1562
6.61	2014	24	2095	48	4447	40	1612
6.81	2077	25	2160	50	4585	41	1662
7.02	2139	26	2225	51	4723	42	1712
7.22	2202	27	2290	53	4861	43	1762
7.43	2264	27	2355	54	4999	45	1812
7.63	2327	28	2420	56	5137	46	1862
7.84	2389	29	2485	57	5275	47	1912
8.04	2452	30	2550	59	5413	48	1962
8.25	2514	31	2615	60	5551	49	2013
8.45	2577	31	2680	62	5689	51	2063
8.66	2639	32	2745	63	5827	52	2113
8.86	2702	33	2810	65	5965	53	2163
9.07	2764	34	2875	66	6103	54	2213
9.27	2827	34	2940	68	6241	56	2263
9.48	2889	35	3005	69	6379	57	2313
9.68	2952	36	3070	71	6517	58	2363
9.89	3014	37	3135	72	6655	59	2413
10.09	3077	37	3200	74	6793	61	2463
10.30	3139	38	3265	75	6931	62	2513
10.50	3202	39	3330	77	7069	63	2563
10.71	3264	40	3395	78	7207	64	2613
10.91	3327	40	3460	80	7345	65	2663
11.12	3389	41	3525	81	7483	67	2713
11.32	3452	42	3590	83	7621	68	2763
11.53	3514	43	3655	84	7759	69	2813
11.73	3577	43	3720	86	7897	70	2863
11.94	3639	44	3785	87	8035	72	2913
12.14	3702	45	3850	89	8173	73	2963
12.35	3764	46	3915	90	8311	74	3013
12.55	3827	46	3980	92	8449	75	3063
12.76	3889	47	4045	93	8587	77	3113
12.96	3952	48	4110	95	8725	78	3163

*** based on white finish, optics and 3000K**

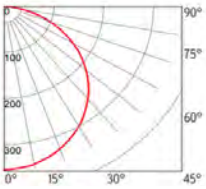
TECHNICAL SPECIFICATION

Voltage	24 Volt (23 Vmin, 25 Vmax)
Case Temperature[A]	Tcmin = -13°F/-25°C, Tcmax = specific, see table
Storage Temperature	Tsmin = -22°F/-30°C, Tsmax = 185°F/85°C
Ambient Temperature	Tamin = -13°F/-25°C, Tamax = specific, see table below

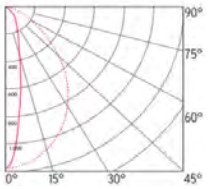
[A] The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in the thermal equilibrium according to IEC EN 60598-1.

AVAILABLE OPTICS

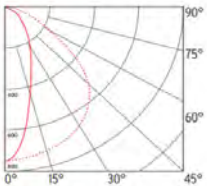
OPAL



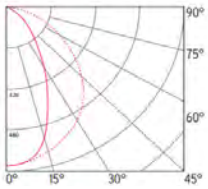
LENS 10°



LENS 30°



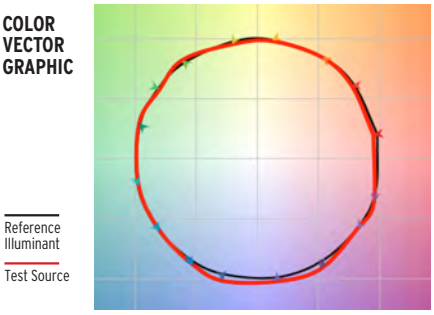
LENS 60°



COLORMETRIC DETAILS - ADONIS ARCHITECTURAL 1P67

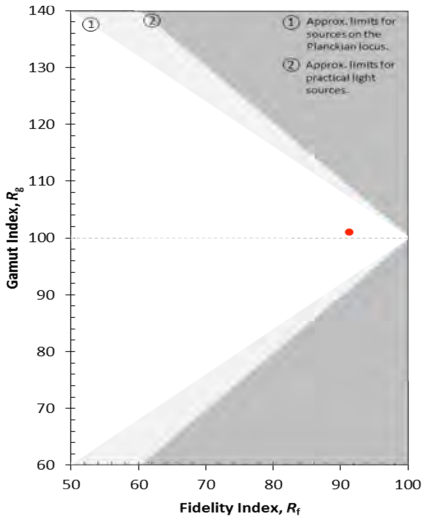
Photometric Code	CCT	R_a / CRI	R9	TM-30-15 / R_f	TM-30-15 / R_g
W830/339	3000 K	82	4	82	97

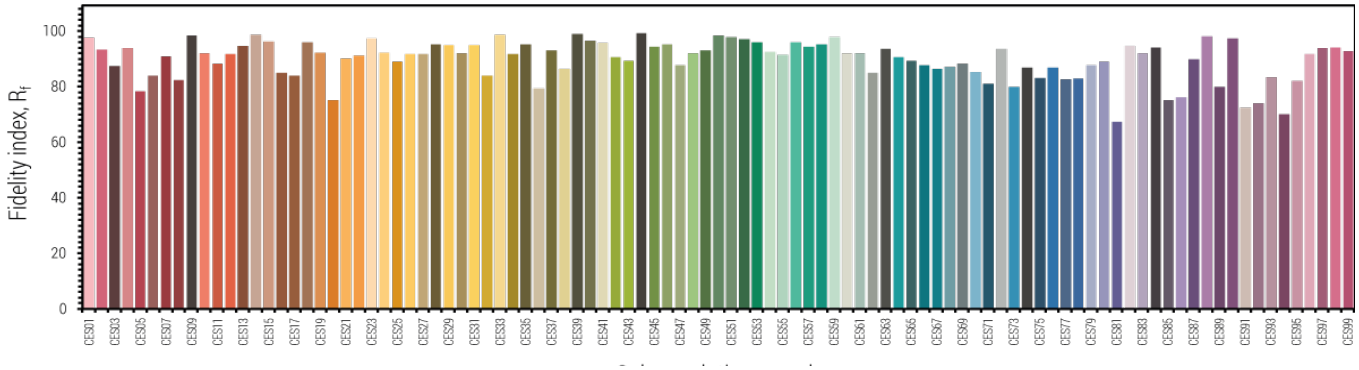
COLOR VECTOR GRAPHIC



COLOR DISTORTION GRAPHIC







VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (PSU / CONTROL TO FIXTURE)

0.34mm² / AWG 22

		STATIC WHITE						TUNABLE WHITE		RGB
ADONIS ARCHITECTURAL IP67		HE05	HE10	HE15	HE20	HE28	HE36	HD12	HD24	HD20
Product Run Length										
ft	m									
3.3	1	127.3 / 38.8	63.6 / 19.4	42.3 / 12.9	32.0 / 9.7	22.6 / 6.9	17.4 / 5.3	52.8 / 16.1	26.2 / 8	32.0 / 9.7
6.6	2	63.6 / 19.4	32.0 / 9.7	21.0 / 6.4	15.7 / 4.8	11.2 / 3.4	8.5 / 2.6	26.2 / 8	13.1 / 4	15.7 / 4.8
9.8	3	42.3 / 12.9	21.0 / 6.4	14.1 / 4.3	10.5 / 3.2	7.5 / 2.3	5.6 / 1.7	17.4 / 5.3	8.5 / 2.6	10.5 / 3.2
13.1	4	32.0 / 9.7	15.7 / 4.8	10.5 / 3.2	7.9 / 2.4	5.6 / 1.7	- / -	13.1 / 4	6.6 / 2	7.9 / 2.4
16.4	5	25.3 / 7.7	12.5 / 3.8	8.2 / 2.5	6.2 / 1.9	- / -	- / -	10.5 / 3.2	- / -	- / -
19.6	6	21.0 / 6.4	10.5 / 3.2	6.9 / 2.1	- / -	- / -	- / -	- / -	- / -	- / -
23.0	7	18.0 / 5.5	8.9 / 2.7	5.9 / 1.8	- / -	- / -	- / -	- / -	- / -	- / -

1.5mm² / AWG 15

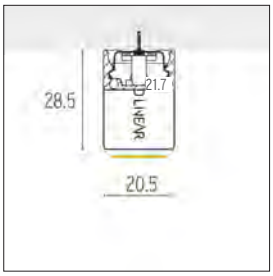
		STATIC WHITE						TUNABLE WHITE		RGB
ADONIS ARCHITECTURAL IP67		HE05	HE10	HE15	HE20	HE28	HE36	HD12	HD24	HD20
Product Run Length										
ft	m									
3.3	1	562.0 / 171.3	280.8 / 85.6	187.3 / 57.1	140.4 / 42.8	100.4 / 30.6	78.1X / 23.8	234.3 / 71.4	117.1 / 35.7	140.4 / 42.8
6.6	2	280.8 / 85.6	140.4 / 42.8	93.5 / 28.5	70.2 / 21.4	50.2 / 15.3	39.0 / 11.9	117.1 / 35.7	58.4 / 17.8	70.2 / 21.4
9.8	3	187.3 / 57.1	93.5 / 28.5	62.3 / 19	46.6 / 14.2	33.5 / 10.2	26.0 / 7.9	78.1 / 23.8	39.0 / 11.9	46.6 / 14.2
13.1	4	140.4 / 42.8	70.2 / 21.4	46.6 / 14.2	35.1 / 10.7	25.0 / 7.6	- / -	58.4 / 17.8	29.1 / 8.9	35.1 / 10.7
16.4	5	112.2 / 34.2	56.1 / 17.1	37.4 / 11.4	27.9 / 8.5	- / -	- / -	46.6 / 14.2	- / -	- / -
19.6	6	93.5 / 28.5	46.6 / 14.2	31.2 / 9.5	- / -	- / -	- / -	- / -	- / -	- / -
23.0	7	80.1 / 24.4	40.0 / 12.2	26.6 / 8.1	- / -	- / -	/ -	- / -	- / -	- / -

Calculation refers to the cable configuration on site.
The information listed in the table only refers to the conductor-based voltage drop of max. 0.85V at 24V DC input voltage.

Regarding the electromagnetic combability (EMC) the maximum cable length is defined by the power supply manufacturer.
A cable length between power supply and planned product longer than indicated by the datasheet of the power supply is possible. However the electromagnetic combability can then be influenced by the conditions of the installation site. There is no data on electromagnetic compatibility for longer cable lengths, which might lead to the necessity of an evaluation of the electromagnetic compatibility by a third party.
Datasheets and mounting instructions of the components in combination with the planned product must be carefully read and followed.

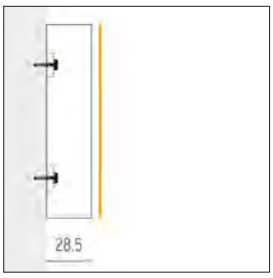
INCLUDED MOUNTING ACCESSORIES

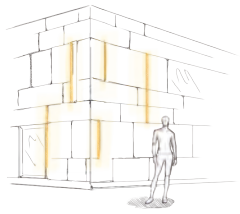
SURFACE MOUNTING FIXED HORIZONTAL (SH)



MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **VarioClip 010 Set** Digits in order code: SH	Aluminum mounting clip with washer. Clips inside the fixture profile for invisible mounting. Use according to the mounting instruction.	

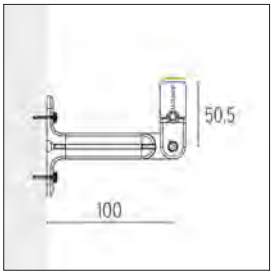
SURFACE MOUNTING FIXED VERTICAL (SV)

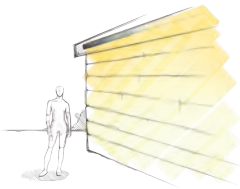


MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **VarioClip 010** Digits in order code: SV	Aluminum mounting clip with washer. Clips inside the fixture profile for invisible mounting. Use according to the mounting instruction.	
 **Sliding block C010 incl. screw** Digits in order code: SV	Metal mounting block with set screw for vertical applications. Install inside the fixture profile to stop the fixture from sliding. Use according to the mounting instruction.	

ADJUSTABLE ARM





MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **Adjustable Arm L40** Digits in order code: A0	40 mm adjustable mounting arm. Supplied according to the selected profile color (RAL9003, RAL9005, RAL9022). The set includes mounting clip incl. screws for fixing the luminaire. Allows tilting by 120° in any direction. Use according to the installation instructions.	
 **Adjustable Arm L100** Digits in order code: A1	100 mm adjustable mounting arm. Supplied according to the selected profile color (RAL9003, RAL9005, RAL9022). The set includes mounting clip incl. screws for fixing the luminaire. Allows tilting by 120° in any direction. Use according to the installation instructions.	

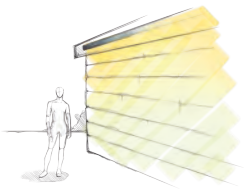
*Mounting accessories are included with fixtures. Additional accessories can be purchased upon request.

INCLUDED MOUNTING ACCESSORIES

ADJUSTABLE ARM

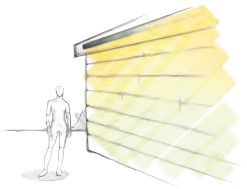




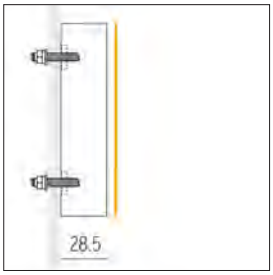
MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **Adjustable Arm L200** Digits in order code: A2	200 mm adjustable mounting arm. Supplied according to the selected profile color (RAL9003, RAL9005, RAL9022). The set includes mounting clip incl. screws for fixing the luminaire. Allows tilting by 120° in any direction. Use according to the installation instructions.	
 **Adjustable Arm L300** Digits in order code: A3	300 mm adjustable mounting arm. Supplied according to the selected profile color (RAL9003, RAL9005, RAL9022). The set includes mounting clip incl. screws for fixing the luminaire. Allows tilting by 120° in any direction. Use according to the installation instructions.	

SURFACE MOUNTING ADJUSTABLE (SA)



MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **Adjustable Mounting Clip C007/C010 L140 (silver anodized)** Digits in order code: SA	140 mm adjustable mounting clip with a tilt of 60° to each side, comes together with profile colors white and gray. Use according to the mounting instruction.	
 **Adjustable Mounting Clip C007/C010 L140 (black anodized)** Digits in order code: SA	140 mm adjustable mounting clip with a tilt of 60° to each side, comes together with profile color black. Use according to the mounting instruction.	

MOUNTING LOCK (ML)

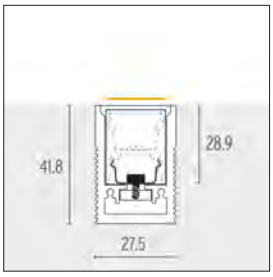


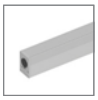
MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **Screw Kit M5 for Mounting Lock** Digits in order code: ML	25 mm threaded pin with washer and nut. For a vandal resistant installation. Use according to the mounting instruction.	

*Mounting accessories are included with fixtures. Additional accessories can be purchased upon request.

INCLUDED MOUNTING ACCESSORIES

INGROUND MOUNTING FRAME (IF)

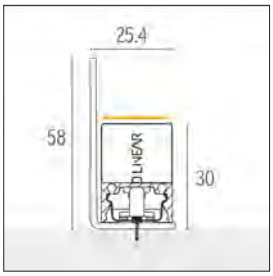


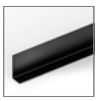
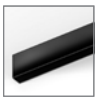
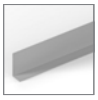
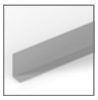
MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **Inground Frame Set** (L x H x W) luminaire length x 41.8 mm x 27.5 mm Digits in order code: IF	Aluminum frame (silver anodized) cut to luminaire length incl. styrofoam dummy and endcap/clipset for stand-alone luminaire applications. Use according to the mounting instruction.	
 **Inground Frame 2 m w/ dummy** (L x H x W) 2000 mm x41.8 mm x 27.5 mm Art.-#: 10000639-2m	Aluminum frame (silver anodized) in 2 m length incl. styrofoam dummy for lightline applications. Use according to the mounting instruction.	
 **Inground Frame 4 m w/ dummy** (L x H x W) 4000 mm x41.8 mm x 27.5 mm Art.-#: 10000639-4m	Aluminum frame (silver anodized) in 4 m length incl. styrofoam dummy for lightline applications. Use according to the mounting instruction.	
 **Inground Frame Endcap Set** Art.-#: 11000310-SIL	Aluminum endcap with screws and sealing plug. Required to cover the ends of the inground frame before installation. Use according to the mounting instruction.	
Inground Frame Clip Set Art.-#: 13000504	Clip with mounting lock, screw and washer for inground frame. Use according to the mounting instruction.	
 **Inground Frame Connector** Art.-#: 13000503	Aluminium connector for joining inground frames to create lightlines. Use according to the mounting instruction.	
 **Disassembly Tool For Inground Frame** Art.-#: 13100032	Use to take the fixture out of the inground frame. Use according to the mounting instruction.	

*Mounting accessories are included with fixtures. Additional accessories can be purchased upon request.

INCLUDED MOUNTING ACCESSORIES

GLARE PROTECTION



MOUNTING ACCESSORIES	DESCRIPTION	APPLICATION EXAMPLE
 **Glare Shield white - 1m** Art.-#: 10000622-RAL9003-1m	Aluminium glare shield in 1 m length. For a better glare control for people passing by. Use according to the mounting instruction.	
 **Glare Shield white - 2m** Art.-#: 10000622-RAL9003-2m	Aluminium glare shield in 2 m length. For a better glare control for people passing by. Use according to the mounting instruction.	
 **Glare Shield black - 1m** Art.-#: 10000622-RAL9005-1m	Aluminium glare shield in 1 m length. For a better glare control for people passing by. Use according to the mounting instruction.	
 **Glare Shield black - 2m** Art.-#: 10000622-RAL9005-2m	Aluminium glare shield in 2 m length. For a better glare control for people passing by. Use according to the mounting instruction.	
 **Glare Shield gray - 1m** Art.-#: 10000622-RAL9022-1m	Aluminium glare shield in 1 m length. For a better glare control for people passing by. Use according to the mounting instruction.	
 **Glare Shield gray - 2m** Art.-#: 10000622-RAL9022-2m	Aluminium glare shield in 2 m length. For a better glare control for people passing by. Use according to the mounting instruction.	

*Mounting accessories are included with fixtures. Additional accessories can be purchased upon request.

CABLES AND CONNECTORS

	Item	Description	Model	Dimensions	Order Code
 	Female Connector IP67	Use to run cable from the driver to the first fixture of the run or to the next fixture. Female connector on one side and open end cable on the other side. Available with staright or 90° L-shaped connector.	Static White	2 x 22 Awg, 4 in	15000071
			Static White	2 x 22 Awg, 3.2 ft	15000090
			Static White	2 x 22 Awg, 6.5 ft	15000091
			Static White	2 x 22 Awg, 16.5 ft	15000092
			Static White / 90°	2 x 22 Awg, 6.5 ft	15000089
			RGB / Tunable White	4 x 23 Awg, 4 in	15000094
			RGB / Tunable White	4 x 23 Awg, 3.2 ft	15000095
			RGB / Tunable White	4 x 23 Awg, 6.5 ft	15000096
			RGB / Tunable White	4 x 23 Awg, 16.5 ft	15000097
			RGB / Tunable White / 90°	4 x 23 Awg, 6.5 ft	15000098
	Male Connector IP67	Use to run cable from the fixture to the driver or to the previous fixture. Male connector on one side and open end cable on the other side.	Static White	2 x 22 Awg, 4 in	15000070
			Static White	2 x 22 Awg, 3.2 ft	15000093
			RGB / Tunable White	2 x 23 Awg, 4 in	15000099
			RGB / Tunable White	2 x 23 Awg, 3.2 ft	15000100
	Extension IP67	Use to extend the distance between connection points. Female connector on one side and male connector on the other side.	Static White / RGB / Tunable White	4 x 23 Awg, 3 in	15000101
			Static White / RGB / Tunable White	4 x 23 Awg, 3.3 ft	15000207
			Static White / RGB / Tunable White	4 x 23 Awg, 6.5 ft	15000102
			Static White / RGB / Tunable White	4 x 23 Awg, 16.5 ft	15000103
	Female Protection Cap IP67	Use to seal unused connectors and maintain IP67 ingress protection.	Static White / RGB / Tunable White	—	15000115

ADONIS Architectural IP67 Static White/Tunable White/RGB

LED LINEAR
A Fagerhult Group Company

DRIVERS

ITEM		SPECIFICATIONS	DOWNLOADS
LED LINEAR™ Non-Dimmable Drivers		- UL 8750 Listed Enclosure – With Built-In Junction Boxes - Universal Input Voltage 120V - 277V - IP65 – For Both Indoor and Outdoor Use - No Minimum Load Requirement - 24V Constant Voltage Output, Class 2 - Available in three wattages 30W, 60W and 96W - Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ 0-10V Dimmable Drivers		- UL 8750 Listed Enclosure – With Built-In Junction Boxes - 0-10V Dimmable - Flicker Free Down to 1% - Universal Input Voltage 120V - 277V - IP65 – For Both Indoor and Outdoor Use - 24V Constant Voltage Output, Class 2, Class P - Available in three wattages 30W, 60W and 96W - Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8"	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ ELV/Triac Dimmable Drivers		- UL 8750 Listed Class 2 Enclosure - 24V constant voltage output - Compact size yet high efficiency and performance in dry and damp environments (IP67) - Multiple Inputs: 120V or 277V - Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge - Available in two wattages 48W and 96W	48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
MEAN WELL PWM Dimmable Drivers		- Universal AC input / Full range (up to 305VAC) - Constant voltage PWM style output - Built-in 3 in 1 dimming function (0~10Vdc or PWM signal or resistance) - Dimming range : 0~100% - Class 2 power unit - Suitable for dry / damp / wet locations - UL Recognized component, 5 years warranty	30 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS
LUTRON Dimmable Drivers		- UL Listed Enclosure - Dimming Range: 100% to 1% and 0.1% (Premiere) - LED lighting turns on to any dimmed level without flashing to full brightness - Operating Voltage: 120V~ to 277V~ at 50/60 Hz - Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading - For rated warranty, ambient temperature not to exceed 40°C (104°F) - Open-circuit protected output	HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS
eldoLED DALI/DMX Dimmable Drivers		- Available in linear or rectangular format - 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications - 4 control channels - 24V constant voltage, 4 x 24V outputs - Metal or plastic case options	100 W SPEC SHEET INSTALLATION INSTRUCTIONS

CONTROLLERS

ITEM		SPECIFICATIONS	DOWNLOADS
eldoLED Controllers		**180/D** DMX Controller for RGB/W and Tunable White Applications **210/D** Dali Contoller for Static White Applications **211/D-LG** 0-10V Logarithmic Dimming Controller **211/D-LN** 0-10V Linear Dimming Controller **212/D** DMX Controller for Static White and Static Color Applications	180/D SPEC SHEET 210/D SPEC SHEET 211/D-LG SPEC SHEET 212/D SPEC SHEET

Click for more information

INSTALLATION | IES FILES | LED LINEAR TECHNOLOGY

Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FP01

ECH

ECHELĂN HIGH PERFORMANCE HIGH BAY

FEATURES

- Industrial design delivers a small, lightweight fixture for ease of installation
- Electrical architecture delivers industry leading efficiencies (up to 201 LPW) that translate into lowest life cycle cost
- Designed for ambient temperature settings from -30°C up to 55°C
- Offers lumen outputs up to 60,000 to accommodate various ceiling heights, fixture spacings, and application requirements
- Four optical distribution available to meet any design requirement
- Broad offering of integrated sensor options provide energy savings, code compliance, fixture grouping, and wireless connectivity
- Optimized bulk packaging to minimize job site space requirements and ease waste removal
- Uplight options available to illuminate ceiling above fixture

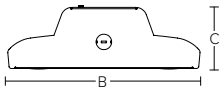
ECHELĂN



SERVICE PROGRAM

QS10

(-BAA Option)



Typical Dimensions and Weights				
Sizes	(A) Length Inches	(B) Width Inches	(C) Height Inches	Weight (lbs)
1	13.75	10.88	3.46	10.0
2	27.30	10.88	3.60	20.0
3	27.30	15.58	3.60	22.0

*Size dependent on Lumen code. See dimensions page.

CONTROL TECHNOLOGY

SPECIFICATIONS

CONSTRUCTION

- Fixture housing is a combination of steel and aluminum for exceptional durability and heat dissipation
- Fixture design provides easy access to electrical components by removal of bottom channel cover
- Robust white powder coating prevents chipping and/or flaking while providing protection in more demanding environments
- Access plate mounted on back of fixture providing easy access to make wiring connections
- Knockouts on both ends of fixture for electrical connection options

OPTICS

- Diffuse optic options, plus wide, narrow, and aisle light distributions to meet any application requirement
- Field changeable lens for maintenance and flexibility

INSTALLATION

- Mounting options include Chain/Cable mount, Surface mount, and Pendant mount

ELECTRICAL

- Light engine utilizing metal clad boards with high efficacy (up to 201 LPW), long life LEDs protect the fixtures lumen maintenance
- Driver options include 3kV standard surge protection in 120–277V input or 6kV standard surge protection in 347–480V input
- Power Factor >0.9 and THD <20 converts power efficiently and effectively into light
- Driver options for fixed light output or 0-10V dimming down to 10% is available to customize light levels

CONTROLS

- Integration of sensors (NX and Other) accomplished though knockout in bottom middle of fixture which eliminates fixture potentially blocking sensor
- High-end trim, occupancy and ambient light detection with dimming available
- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments.
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices.
- DLC 5.1 LLC: Integrated/embedded networked lighting controls, luminaire-level lighting control (LLLC)

CERTIFICATIONS

- Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant
- All luminaires are built to UL1598 standard
- Damp location labeling is standard
- UL/cUL Listed
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC® website for specific product qualifications at www.designlights.org
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions
- -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). See Buy America(n) Solutions

WARRANTY

- 5 year warranty. See HLI Solutions Standard Warranty for additional information.

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Columbia LIGHTING

DATE: LOCATION: FP01

TYPE: PROJECT:

CATALOG #:

ECH

ECHELÃN HIGH PERFORMANCE HIGH BAY

ORDERING GUIDE

Gray Shading = Service Program Limit of 800 luminaires QS10

Example: ECH1-840-L24-CW-ED-U-ST

CATALOG #

ECH1 –		–		–		–		–		–	
Model		**CRI/CCT**		**Lumen Output**		**Optics**		**Driver**		**Voltage**		**Mounting**	
ECH1	High Performance High Bay	**740**	4000K 70 CRI	**L09**	9,000 lm	**CW**	No Lens (120°)	**ED**	0-10V Dimming	**U**[6]	120-277V	**ST**	Standard
		750	5000K 70 CRI	**L12**	12,000 lm	**DW**[9]	Diffuse Optic Wide (120°)	**E**	Fixed Output	**120**	120V	**SM**	Surface Mount
		830	3000K 80 CRI	**L15**	15,000 lm	**DN**[9]	Diffuse Optic Narrow (55°)			**277**	277V	**PM**	Pendant Mount
		835	3500K 80 CRI	**L18**	18,000 lm	**DA**[9]	Diffuse Optic Aisle (30°)			**347**	347V		
		840	4000K 80 CRI	**L24**	24,000 lm					**480**	480V		
		850	5000K 80 CRI	**L30**	30,000 lm								
		935	3500K 90 CRI	**L36**	36,000 lm								
		940	4000K 90 CRI	**L48**	48,000 lm								
				L60	60,000 lm								

– **Integrated Sensors (Leave Blank If None Needed)**

NX Lighting Controls

Networked Wireless

NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor
NXWHM	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming

Networked Wired

NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor
NXEHM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming

Independent Control

NXCHM	NX Connect NXC-WHS20 Wireless High Bay Occupancy & Photocell Sensor [8, 14]
WSPD360	Integral WSPEMUNV PIR Occupancy Sensor with photocell and 360° Lens
WSPDA	Integral WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens
WSPDBT360	Bluetooth® Programmable, WSPDBEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
WSPDBTA	Bluetooth® Programmable, WSPDBEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens
OS1360	On/Off WASP2 Occupancy/Daylight Sensor, 1-relay, 360 lens
OS1A	On/Off WASP2 Occupancy/Daylight Sensor, 1-relay, Aisle lens

Other

Independent Control

OS	On/Off Sensor 360° high mount sensor [7]
OCS	On/ Off Occupancy/ Daylight Sensor 360° high mount sensor [7]
ODS	Dimming Occupancy Sensor 360° high mount sensor [7]

– **Options (Leave Blank If None Needed)**

PI	Packaged Individually
ELL20	20W Emergency Battery Pack (CEC Title 20 Compliant) Installed [1, 2, 15]
ELL30	30W Emergency Battery Pack (CEC Title 20 Compliant) installed [16]
DTS	Dimming Bypass Module [11]
BAA	Buy American Act (FAR 52.225-9) Compliant

Cord Options

F3C006	6', 3 conductor cord
F3C012	12', 3 conductor cord
F4C006	6', 4 conductor cord (for ELL20 option)
F4C012	12', 4 conductor cord (for ELL20 option)
F5C006	6', 5 conductor cord (Line + dimming)
F5C012	12', 5 conductor cord (Line + dimming)

Flexible Metal Conduit Options

C00388	6', 3 wire flexible metal conduit
C00488	6', 4 wire flexible metal conduit
C00588	6', 5 wire flexible metal conduit

Cord with Plug Options (See NEMA Table Below)

C6TL15	6' Cord with 15A TL Plug (Only available when specifying discrete voltage codes 120 or 277) [3]
C6TL20	6' Cord with 20A TL Plug (Only available when specifying discrete voltage code 120, 277, 347 or 480) [4]
C6P151	6' Cord with 15A straight blade plug (Only available when specifying discrete voltage code 120, 277 or 347) [5]

Specialty Modular Cord Sets

LE	ACS-MC Flex + 10ft 2EA 10-LW 277/480 # 16AWG [13]
NE	ACS-MC Flex + 10ft 2EA 12-LW 277/480 # 16AWG [13]

Uplight (nominal lumens) [10, 11, 12]

U1	1000 lumens	
U2	2000 lumens	
U3	3000 lumens	
U4	4000 lumens	**830** 3000K

Uplight separately controlled

Notes:

1. ELL20 with 347/480V not available with mounting options SM and PM.
2. Quick Ship 10 not available for E20 with cord options
3. Only available with 120V or 277V
4. Only available with 120V, 277V, 347V or 480V
5. Only available with 120V, 277V or 347V
6. Cords/Plugs and Third Party Sensors not available with the U voltage code option
7. Third party sensor are programmable and sensors are typically side mounted.
8. NX Connect devices can be customized with the NX Connect app, available on the Apple® App Store. NX Connect sensors are typically bottom mounted.
9. DW is polycarbonate, DN and DA are acrylic
10. ST mounting option only
11. For 347/480V contact factory
12. Uplight max ambient temperature = +40°C
13. Only available with 277V or 480V
14. High mount lens provided. For low, medium, or aisle distribution order appropriate lens accessory and field change
15. To determine the lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
16. Please consult factory on leadtime for this option

Provide with Custom finish **BLACK**

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ECH

ECHELÃN HIGH PERFORMANCE HIGH BAY

ACCESSORY ORDERING GUIDE

MOUNTING AND ACCESSORIES				
Mounting Options		Description	Configurable Order Logic Code	Accessories
☐	**Standard Chain/ Cable Mount**	Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.	**ST =** Standard (No chain or mounting hardware included)	n/a
☐	**Surface Mount (optional)**	Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)	**SM** = Surface Mount	SKU: 93165274 Description: ½" Surface Mounting Kit NOTE: Kit included two (2) brackets.
☐	**Pendant Mount (optional)**	Available on all fixture configurations. Attaches to ¾" threaded conduit. (conduit not included).	**PM** = ¾" Pendant Mount Kit	SKU: 93165273 Description: ¾" Pendant Mounting Kit
☐	**Y-Cable w/hook (optional)**	Use with Standard Mounting Option only. Order separately. Priced per pair. 5 ft., 10 ft., 15 ft., 20 ft. lengths available	n/a	5' Y Cable/Hook: 93302310 10' Y Cable/Hook: 93302311 15' Y Cable/Hook: 93306699 20' Y Cable/Hook: 93306750
☐	**V-Clips w/ chains (optional)**	Use with Standard Mounting Option only. Order separately. Priced per pair. 3 ft. length chains included.	n/a	93146133G

WIRE GUARDS			
ECH Body Size		SAP #	SAP Description
☐	ECH Size 1	93318569	CUR HB WG 2 10PK
☐	ECH Size 1 + End Mount Sensor	93318570	CUR HB WG 2 SMS 10PK
☐	ECH Size 2	93318571	CUR HB WG 3 10PK
☐	ECH Size 2 + End Mount Sensor	93318572	CUR HB WG 3 SMS 10PK
☐	ECH Size 3	93318573	CUR HB WG 4 5PK
☐	ECH Size 3 + End Mount Sensor	93318574	CUR HB WG 4 SMS 5PK

*SMS = Use with end mount sensor. If ordering fixture with sensor, refer to chart on page 6 of spec sheet to determine if sensor is end mounted. If sensor is end mounted, order wireguard for fixture body size with 'SMS' in description.

All highbay wireguards are priced as single accessories and must be ordered as single accessories. Standard packaging is a master carton containing 5 or 10 wireguards depending on fixture body size.

See Highbay Wireguard Installaton sheet (hyperlink) for more details.

NEMA PLUG TYPE TABLE			
Voltage	TL15 15A Twist Lock	TL20 20A Twist Lock	P151 15A Straight
120V	L5-15P	L5-20P	5-15P
277V	L7-15P	L7-20P	7-15P
347V	N/A	L24-20P	24-15P
480V	N/A	L8-20P	N/A

FIELD INSTALLABLE 20W BATTERY KITS*		
	Ordering SKU	ECH Body Size
☐	93313452	Size 1
☐	93313453	Size 2, Size 3

*Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant

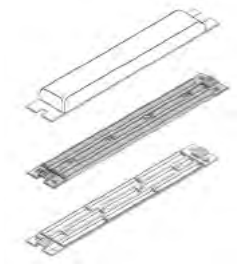
FIELD CHANGEABLE NX-WHS20 SENSOR ACCESSORIES



Ordering Sku	Ordering Cat# Logic	Description
93134999	**NX- WHS20_LOW_LENS_KIT_10**	**Low Lens: 2.5m (8ft) - 10pk**
93135001	**NX- WHS20_MED_LENS_KIT_10**	**Med Lens: 6m (20ft) - 10pk**
93135003	**NX- WHS20_HIGH_LENS_KIT_10**	**High Lens: 12m (40ft) - 10pk**
93134985	**NX- WHS20_SNAP_AISLE_MASK_KIT_10**	**Snap on Aisle Mask**

NOTE: See below for NX-WHS20 coverage patterns

REPLACEMENT PARTS



REPLACEMENT LENSES & OPTICS			
Ordering SKU	Ordering Cat# Logic	Fixture Optic Ordering Code	Description
93164585	ECH-WIDE DIFFUSED LENS KIT	DW	Diffuse Optic Wide (120°)
93164587	ECH-DN OPTIC KIT	DN	Diffuse Optic Narrow (55°)ractors in kit
93164588	ECH-DA OPTIC KIT	DA	Diffuse Optic Aisle (30°)

Body Size and number of lenses required:
Size 1 = 2 lens = 1 kit
Size 2 = 4 lens = 2 kits
Size 3 = 8 lens = 4 kits

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ECH

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DELIVERED LUMENS

DELIVERED LUMENS AND ELECTRICAL CHARACTERISTICS FOR ECH1								
Ordering Code			Delivered Lumens	120–277V		347/480V		Body
CRI/CCT	Lumen	Optic		Watts	LPW	Watts	LPW	
740 750	L09	DW	9,100	49	186	51	178	Size 1
	L12		12,100	66	183	68	178	
	L15		15,100	85	178	86	176	
	L18		18,200	106	172	104	175	
	L24		24,000	147	163	144	167	
	L30		30,000	168	179	170	176	Size 2
	L36		36,400	212	172	209	174	
	L48		48,000	294	163	289	166	
	L60		60,300	343	176	336	179	Size 3
830	L09	DW	8,500	53	160	56	152	Size 1
	L12		11,400	72	158	74	154	
	L15		14,300	94	152	93	154	
	L18		17,200	116	148	114	151	
	L24		22,600	164	138	161	140	
	L30		28,300	186	152	185	153	Size 2
	L36		34,300	232	148	229	150	
	L48		45,200	328	138	322	140	
	L60		56,700	380	149	372	152	Size 3
835	L09	DW	8,800	53	166	56	157	Size 1
	L12		11,900	72	165	74	161	
	L15		14,800	94	157	93	159	
	L18		17,800	116	153	114	156	
	L24		23,500	164	143	161	146	
	L30		29,300	186	158	185	158	Size 2
	L36		35,600	232	153	229	155	
	L48		46,900	328	143	322	146	
	L60		58,800	380	155	372	158	Size 3
840 850	L09	DW	9,100	53	172	56	163	Size 1
	L12		12,100	72	168	74	164	
	L15		15,100	94	161	93	162	
	L18		18.200	116	157	114	160	
	L24		24,000	164	146	161	149	
	L30		30,000	186	161	185	162	Size 2
	L36		36,400	232	157	229	159	
	L48		48,000	328	146	322	149	
	L60		60,300	380	159	372	162	Size 3
935	L09	DW	7,900	53	149	56	141	Size 1
	L12		10,600	72	147	74	143	
	L15		13,200	94	140	93	142	
	L18		15,900	116	137	114	139	
	L24		21,000	164	128	161	130	
	L30		26,200	186	141	185	142	Size 2
	L36		31,800	232	137	229	139	
	L48		41,900	328	128	322	130	
	L60		52,600	380	138	372	141	Size 3
940	L09	DW	8,100	53	153	56	145	Size 1
	L12		10,900	72	151	74	147	
	L15		13,500	94	144	93	145	
	L18		16,300	116	141	114	143	
	L24		21,500	164	131	161	134	
	L30		26,900	186	145	185	145	Size 2
	L36		32,600	232	141	229	142	
	L48		43,000	328	131	322	134	
	L60		53,900	380	142	372	145	Size 3

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DELIVERED LUMENS (CONTINUED)

LUMEN OUTPUT MULTIPLIER FOR OPTIC ORDERING CODE		
Optic Ordering Code	**Optic Description**	**Lumen Output Multiplier**
CW	No Lens (120°)	108%
DW	Diffuse Optic Wide (120°)	100%
DN	Diffuse Optic Narrow (55°)	101%
DA	Diffuse Optic Aisle (30°)	102%

Delivered Lumens (in Table on Previous Page) x **Lumen Output Multiplier** = **Delivered Lumens for fixture with CW, DN, or DA Lens**

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs
TM-21-11	25C/77F	0.96	0.94	0.93
	40C/104F	0.95	0.91	0.90
TM-21-21	25C/77F	0.96	0.94	0.93
	40C/104F	0.95	0.91	0.89

AMBIENT TEMPERATURE RATINGS

Lumen Code	L09	L12	L15	L18	L24	L30	L36	L48	L60
Max Ambient	55°C	55°C	55°C	55°C	55°C	55°C	55°C	55°C	55°C
Min Ambient	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C

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NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
			Networkable	Standalone Grouping	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
	NXWHM	NX Networked Wireless Enabled Integral NXSMP2-HMO Wireless High Bay Occupancy & Photocell Sensor	✓	✓	✓	✓	✓	✓	✓	✓	Max: 45ft		NXSMP2-HMO
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓**	–		NXFSP
	NXEHM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	Max: 45ft		NXFSP NXSMP2-HMO
NX Independent	NXCHM	NX Connect NXC-WHS20 Wireless High Bay Occupancy & Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓*	Low Max: 8ft Med. Max: 20ft High Max: 40ft		NXC-WHS20
	WSPD360	End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	–	–	Max: 45ft		WSPDEMUNV
	WSPDA	End Mounted WSPDEMUNV PIR Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens	–	–	–	✓	✓	✓	–	–	Max: 45ft		WSPDEMUNV
	WSPDBT360	End Mounted Bluetooth® Programmable, WSPDBEMUNV Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	Max: 45ft		WSPDBEMUNV
	WSPDBTA	End Mounted Bluetooth® Programmable, WSPDBEMUNV Occupancy Sensor with Automatic Dimming Photocell and Aisle Lens	–	–	–	✓	✓	✓	✓	✓	Max: 45ft		WSPDBEMUNV
	OS1360	End Mounted WSPEMUNV PIR On/Off Occupancy/ Daylight Sensor with 360° Lens	–	–	–	✓	✓	–	On/Off Only No Dim	–	Max: 45ft		WSPEMUNV
	OS1A	End Mounted WSPEMUNV PIR On/Off Occupancy/ Daylight Sensor with Aisle Lens	–	–	–	✓	✓	–	On/Off Only No Dim	–	Max: 45ft		WSPEMUNV
Other Independent Control	OS	End Mounted LSXR PIR On/Off Sensor 360° High Mount Sensor	–	–	–	✓	-	–	On/Off Only No Dim	–	Max: 45ft		LSXR6LT
	OCS	End Mounted LSXR PIR On/ Off Occupancy/Daylight Sensor 360° High Mount Sensor	–	–	–	✓	✓	–	On/Off Only No Dim	–	Max: 45ft		LSXR6PLT
	ODS	End Mounted LSXR PIR Dimming Occupancy Sensor 360° High Mount Sensor	–	–	–	✓	–	✓		–	Max: 45ft		LSXR6HLLT

* Requires use of NX Connect App available for download from Apple app store
** Requires NXBTC (bluetooth programming tool), order separately

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ECH

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CONTROLS

DEFAULT SETTINGS

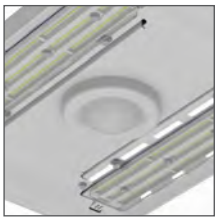
NX Wirelss & Wired	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	"Passcode Factory Passcode: HubbN3T!"	Enabled

NX Independent - WSPDBT360/WSPDBTA	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled

NX Independent - NX Connect	Settling/Dwell Time	5 sec
	Hold Time	15 min
	Group Hold Time	15 min
	Grace Time	0 sec
	Strategy	-
	Occupancy Sensitivity	5 (highest)
	Occupancy Indicator	1 (enabled)
	Partial Off/Standby	0%
	Background Level	10%
	Task Level	100%
	Daylight Harvesting	1 (enabled)
	Low Ambient Output	250% (of fixtures light output)
	High Ambient Output	OFF

NX Independent - WSPD360/WSPDA	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Full Off Timeout	Disabled
	Daylight Sensor	Disabled

PRODUCT IMAGES



NXWHM / NXEHM



NXCHM



WSPD360 / WSPDA
WSPDBT360 / WSPDBTA
OS1350 / OS1A



OS / OCS
ODS

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android

Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

Apple iOS

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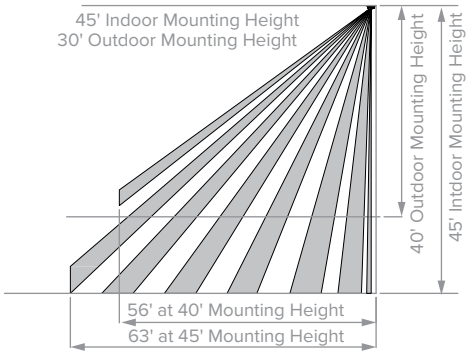
ECH

ECHELÃN HIGH PERFORMANCE HIGH BAY

CONTROLS (CONTD.)

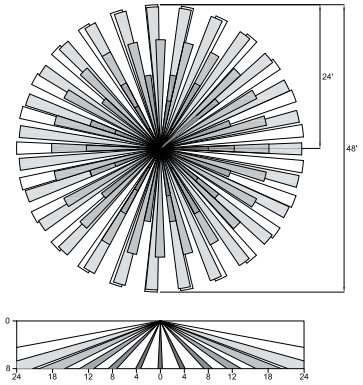
COVERAGE PATTERNS

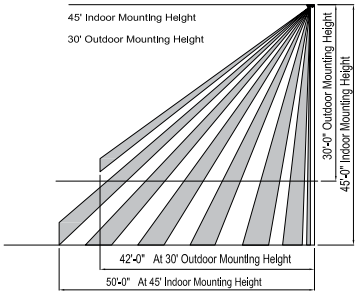
NXWHM (NXSMP2-HMO SENSOR)
NXEHM (NXSMP2-HMO)



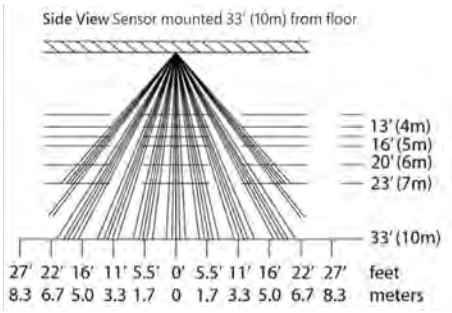
Sensor lens coverage and detection patterns when mounted at 40ft and 45ft with Standard lens

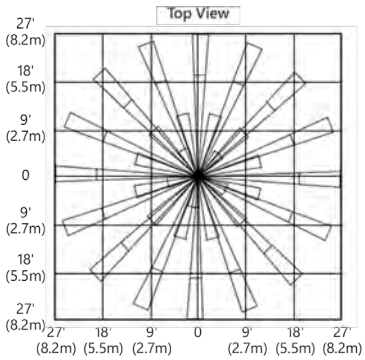
WSPD360/WSPDA/WSPDBT360/ WASDBTA/OS1360/OS1A



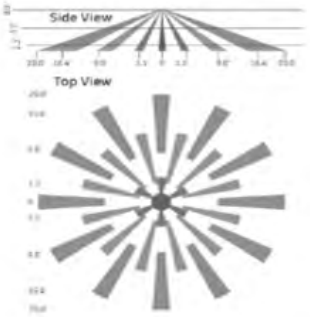


NXCHM (NXC-WHS20 SENSOR)
HIGH LENS: 12.2M (40FT)
27ft Radius/54ft Diameter

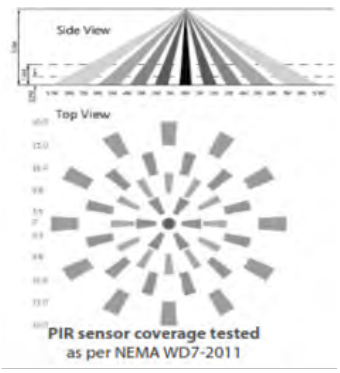




NXCHM (NXC-WHS20 SENSOR)
LOW LENS: 2.5M (8FT)
20ft Radius/40ft Diameter



NXCHM (NXC-WHS20 SENSOR)
MED LENS: 6M (20FT)
30ft Radius/60ft Diameter



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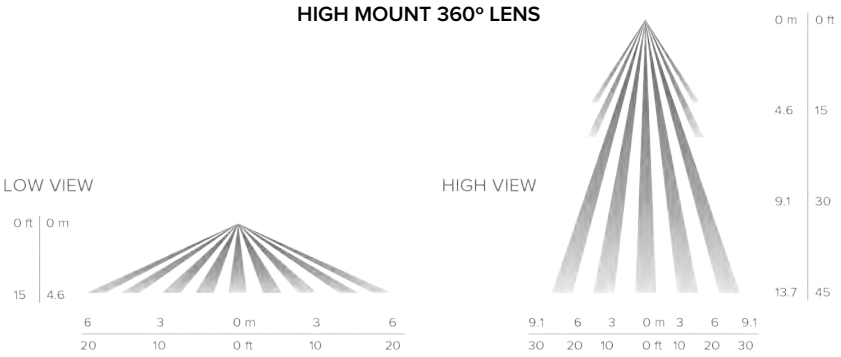
ECHELĀN HIGH PERFORMANCE HIGH BAY

OTHER LIGHTING CONTROLS

OS, OCS, ODS (THIRD PARTY)

COVERAGE PATTERNS

HIGH MOUNT 360° LENS



FUNCTIONALITY AND DEFAULT SETTINGS

Name	Description	Minimum Value	Maximum Value	Default Values for Cat Logic Choice		
				OS	OCS	ODS
Occupancy Time Delay (1 Pole)	The length of time the sensor will keep the lights controlled by relay 1 on at full bright after it last detects occupancy, assuming Minimum On Time has been met.	30 sec	30 min	10 min	10 min	10 min
Occupancy Time Delay (2 Pole)	The length of time the sensor will keep the lights controlled by relay 2 on after it last detects last occupancy, assuming Minimum On Time has been met.	N/A	30 min	10 min	10 min	10 min
Photocell Set-Point	The target light level (at the sensor) that is to be maintained.	Auto	64fc	N/A	N/A	4fc
Sunlight Discount Factor	Value used to improve the tracking for accuracy of a sensor with a photocell during periods of high daylight. Decreasing the value will lower the controlled level of the lights.	x/1	x/10	N/A	N/A	x/1
Dimming Range Max (High Trim)	The maximum output level of a sensor with dimming.	Off	10 VDC	N/A	10 VDC	10 VDC
Dimming Range Low (Low Trim)	The minimum output level to which the photocell will dim the lights.	Off	10 VDC	N/A	1 VDC	1 VDC
Dual Zone Photocell %	Relative value of photocell set-point that is used to control relay 2.	110%	200%	N/A	N/A	150%
Dim to Off Occupancy Time Delay	After Occupancy Time Delay has expired, this setting specifies the amoutn of time lights are held at minimum dim before turning off.	0 sec	Never Off	0 sec	0 sec	0 sec

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ECH

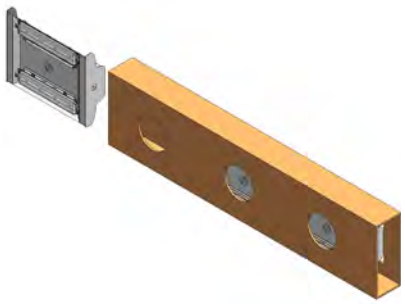
ECHELĀN HIGH PERFORMANCE HIGH BAY

PACKAGING/SHIPPING INFO

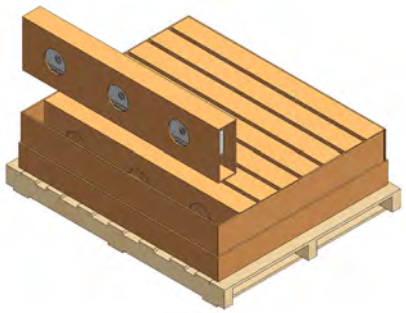
JOB PACKAGING IS STANDARD

Note: Orders less than 14 fixtures are typically sent packaged Individually

SLEEVE



LAYER



PALLET



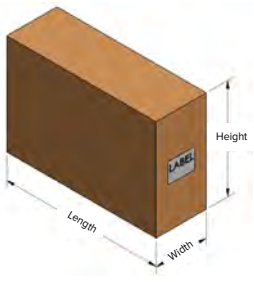
JOB PACK DETAILS			
Size	Fixtures per Sleeve	Sleeves per Layer	Layers per Pallet
1	3	8	3
2	1	8	3
3	1	8	3

JOB PACK PALLET QTYS			
		Pallet Dimensions	
Size	Standard Fixture Qty	L (in) x W(in)	H (in)
1	72	52 x 42	39.0
2	24	52 x 42	39.0
3	24	52 x 42	54.0

JOB PACK PALLET QTYS FOR FIXTURES W/ OPTIONS					
			Fixture Options		
Cord	EL Pack	Bottom Sensor	Bottom Mt Sensor & Cord	Side Mt Sensor	Side Mt Sensor & Cord
63	48	72	63	48	48
21	21	24	21	24	21
21	21	24	21	24	21

PACKAGED INDIVIDUALLY: OPTION SELECTION PI





Packaged Individually Box Dimensions			
Size	Length (in)	Width (in)	Height (in)
1	22.3	7.5	15.0
2	36.5	7.5	15.0
3	39.0	9.5	22.0

Packaged Individually Pallet Qty & Dimensions			
Size	Qty	L (in) x W (in)	Height (in)
1	30	52 x 42	49.0
2	20	52 x 42	48.0
3	6	52 x 42	44.5



Note: Packaged Individually dimensions do not change if sensor, cord, or EMBB option is added to fixture

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ECH

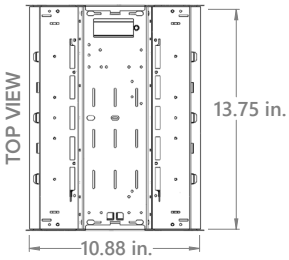
ECHELÃN HIGH PERFORMANCE HIGH BAY

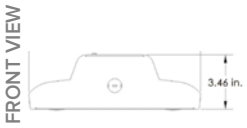
DIMENSIONS

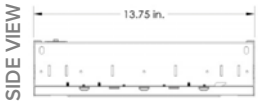
ECH SIZE 1

L09, L12, L15, L18 & L24 LUMEN OUTPUT

Max Weight: 10 lbs



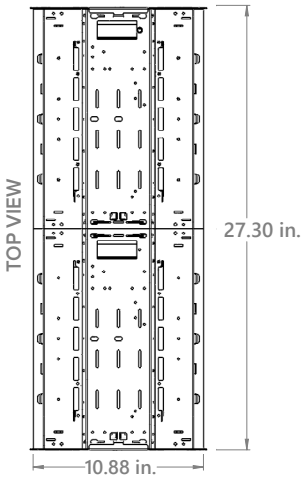


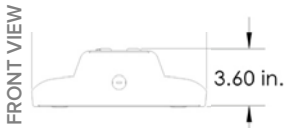


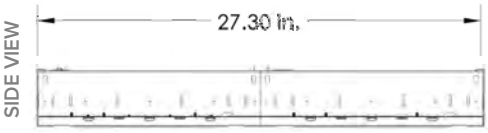
ECH SIZE 2

L30, L36 & L48 LUMEN OUTPUT

Max Weight: 20 lbs



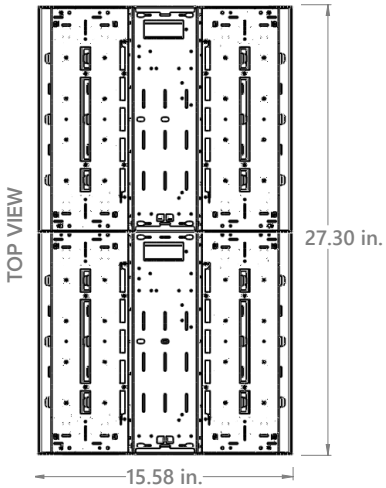




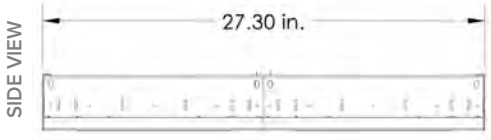
ECH SIZE 3

L60 LUMEN OUTPUT

Max Weight: 22 lbs







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ECH

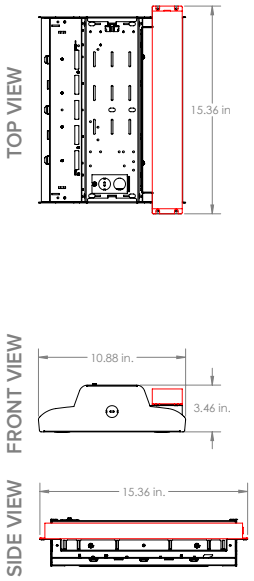
ECHELĀN HIGH PERFORMANCE HIGH BAY

EMERGENCY BATTERY INFORMATION

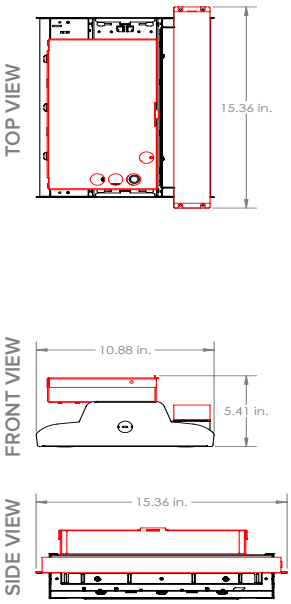
Lumens in Emergency Mode = LPW of Fixture x EM Pack Wattage (20 watts)

ECH SIZE 1

L09, L12, L15, L18 & L24 LUMEN OUTPUT
VOLTAGE: U, 120V, & 277V

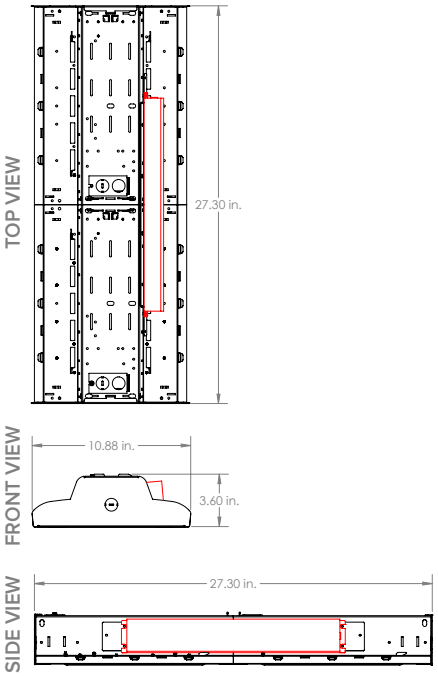


VOLTAGE: 347V & 480V

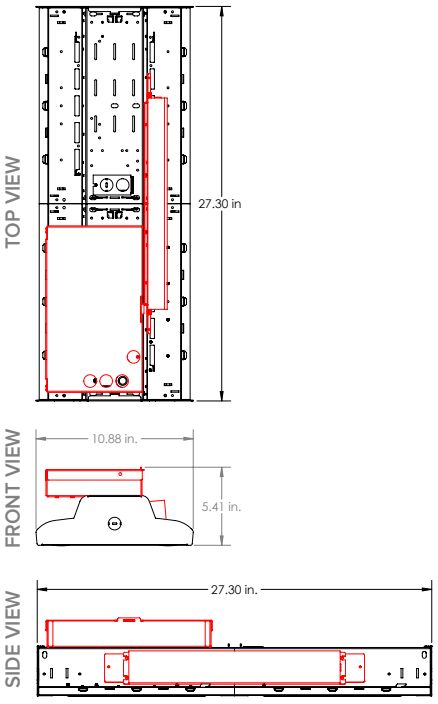


ECH SIZE 2

L30, L36 & L48 LUMEN OUTPUT
VOLTAGE: U, 120V, & 277V

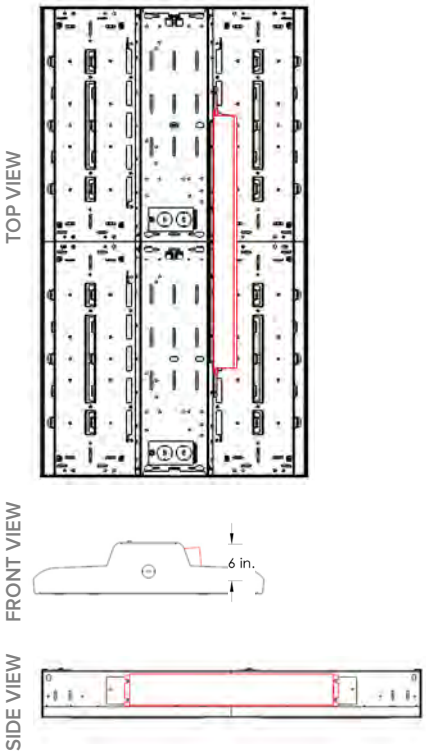


VOLTAGE: 347V & 480V

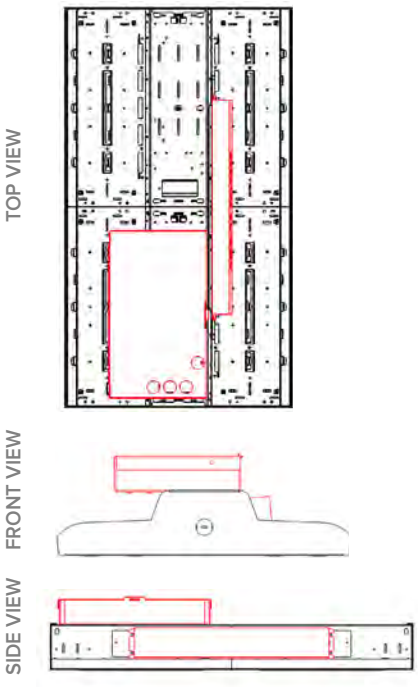


ECH SIZE 3

L60 LUMEN OUTPUT
VOLTAGE: U, 120V, & 277V



VOLTAGE: 347V & 480V



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ECH

ECHELĀN HIGH PERFORMANCE HIGH BAY

PHOTOMETRY

ECH1-840-L24-DW-EDU-U4

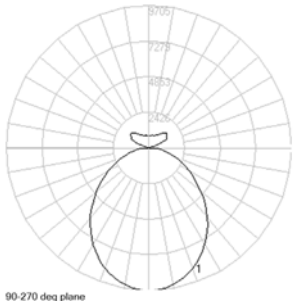
LUMINAIRE DATA

Description	**LED Highbay; 24,000 Lumens; Diffuse Optic Wide; Uplight**
Delivered Lumens	**24,001**
Watts	**164**
Efficacy	**146**
Spacing Criterion	**0°= 1.20 90 = 1.18**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	7319	30.3
0–40	11697	48.5
0–60	19467	80.9
0–90	23943	99.8
0–180	24001	100

POLAR GRAPH



ECH1-840-L24-DN-EDU

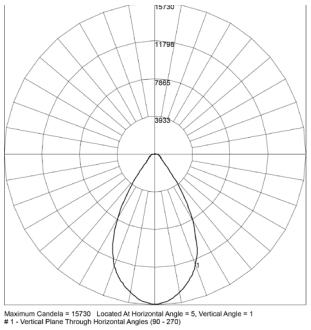
LUMINAIRE DATA

Description	**LED Highbay; 24,000 Lumens; Diffuse Optic Narrow**
Delivered Lumens	**24,240**
Watts	**164**
Efficacy	**148**
Spacing Criterion	**0°= 1.36 90°= .94**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	11280	46.5
0–40	16767	69.2
0–60	22365	92.3
0–90	24153	99.6
0–180	24240	100

POLAR GRAPH



ECH1-840-L24-DA-EDU

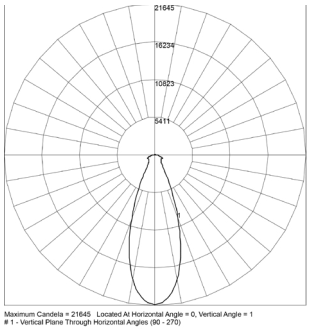
LUMINAIRE DATA

Description	**LED Highbay; 24,000 Lumens; Diffuse Optic Aisle**
Delivered Lumens	**24,480**
Watts	**164**
Efficacy	**149**
Spacing Criterion	**0°= 1.32 90°= .62**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	12337	50.4
0–40	16790	68.6
0–60	22082	90.2
0–90	24367	99.5
0–180	24480	100

POLAR GRAPH



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Columbia LIGHTING

FP02

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

FEATURES

- Uniform end-to-end lens brightness with optional continuous row mounting that gives an uninterrupted ribbon of light
- Superior color consistency within a 3-step MacAdam ellipse and greater than 80 CRI
- Available in 2', 4' or 8' lengths
- Optional 90 or 120 min integral emergency battery pack (CEC Title 20 Compliant)
- Curved and flat acrylic and curved polycarbonate lens options or a no lens (NL) version. Wide and Narrow distributions available
- Modular replaceable LED boards and driver accessible for future maintenance or upgrades
- Surface mount, wall mount or suspended mounting





NXWSM, NXESM



NXCS

SERVICE PROGRAMS

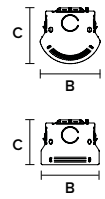
STOCK QS10

CONTROLS TECHNOLOGY

SpectraSync Color Tuning Technology | NX WIRELESS | NX WIRED | NX CONNECT | OCCUPANCY SENSING | DAYLIGHT HARVESTING

End View Curve Lens

End View Flat Lens



Typical Dimensions and Weights					
Sizes	(B) Width Inches (mm)		(C) Height Inches (mm)		Weight lbs (kg)
	Curve Lens	Flat Lens	Curve Lens	Flat Lens	
2'	3.11 (79)	3.00 (76)	3.06 (78)	2.44 (62)	4.0 (1.8)
4'					6.0 (2.7)
8'					12.0 (5.4)

SPECIFICATIONS

CONSTRUCTION

- Housing, wireway, and ends are formed from code-gauge steel
- Housing components act as heat sink for LED heat dissipation
- White painted parts are treated with a five stage phosphate bonding process and finished with high reflectance baked enamel

OPTICS

- Available with or without frosted lens

INSTALLATION

- Knockouts are provided for electrical access and mounting
- WARNING – Removing the lens during installation exposes the LEDs and due to their fragility they could be damaged. Handle the LED reflector plate with care, do not rest the LED reflector plate upside down directly on its LEDs as this could result in damage. Damage to LEDs from mishandling during installation will not be covered under warranty

ELECTRICAL

- Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance
- Driver options include fixed output for on/off function, step dimming (high/low/off), or continuous 0–10V dimming
- Superior drivers and long-life LEDs provide quality illumination for prolonged service life

ELECTRICAL (CONTINUED)

- Drivers < 10% THD at 120V, power factor > 0.95
- Lumen packages up to 10,000 lumens rated to 40°C (104°F) max ambient. Lumen packages up to 5,000 lumens rated to 50°C (122°F) max ambient. Minimum ambient temperature -20°C (-4°F)

CONTROLS

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices
- SpectraSync (TM) Color Tuning Technology offers a tunable white solution and integrates seamlessly into a variety of control systems

CERTIFICATIONS

- All luminaires are built to UL 1598 standards, and bear appropriate cCSAus labels
- Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- DLC® (DesignLights Consortium) Qualified, Please refer to the DLC website for specific product qualifications at www.designlights.org
- Adheres to LM79, LM80, and TM21 industry standards
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

- 5 year warranty

STOCK GUIDE

STOCK

	Catalog No.	UPC	Description	Weight (lbs)	Pallet Qty	DLC QPL
☐	MPS4-35ML-CW-EDU	078531138714	4', 80 CRI, 3500K, 4556 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 114 LPW, White	6.1	56	PKQ78077
☐	MPS4-35ML-FW-EDU	603134946413	4', 80 CRI, 3500K, 4230 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 134 LPW, White	6.1	56	P9P5CV62
☐	MPS4-40ML-CW-EDU	078531138721	4', 80 CRI, 4000K, 4614 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 115 LPW, White	6.1	56	P04CB2S2
☐	MPS4-40ML-FW-EDU	603134946420	4', 80 CRI, 3500K, 4277 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 135 LPW, White	6.1	56	PLLGKQUG
☐	MPS8-50ML-CW-EDU	078531138752	8', 80 CRI, 5000K, 9532 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 80W, 119 LPW, White	13.6	56	PSCRMP7L
☐	CSHC	078531000868	Chain Hanging Assembly - (2) 14" Chains and V-Hooks	0.2	N/A	N/A

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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

Gray Shading = Service Program Limit of 150 Luminaries QS10

ORDERING GUIDE

Example: MPS4–40ML–CW–EDU

MPS –

Model	Size [1]	CRI
MPS MultiPurpose Linear	**2** 2'	**Blank** >80
	4 4'	**9** 90
	8 8'	

–

Color Temp	Nominal Lumens
30 3000K	**XW** 4' (2600), 8' (5200)
35 3500K	**VW** 2'(1600), 4'(3300), 8' (6600)
40 4000K	**MW** 2'(2200), 4'(3600), 8' (7200)
50 5000K	**LW** 2'(2400), 4'(4000), 8' (7900)
2765T 2700K–6500K SpectraSync™ Tunable White [2]	**ML** 2'(3400), 4'(4500), 8' (8900)
	HL 2'(3700), 4'(5800), 8' (11,500)
	VL 2' (4400), 4' (6800), 8' (13,500)
	XL 2' (5400), 4' (7,800), 8' (15,500)
	UL 2'(6200), 4'(10,000), 8'(20,000)

–

Lens	Distribution
C Curve, Frosted Acrylic	**N** Narrow Distribution [3]
F Flat, Frosted Acrylic	**W** Wide Distribution
NL No Lens	
CP Curve, Frosted Polycarbonate	

–

Driver [4]
ED 0-10V Dimming
ED1 0-10V 1% Dimming
EDD 0-10V Dim-to-Off
ESD Step Dimming [5, 9]
LUTH Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [5, 6]
DALIP Powered by DALI [5]

–

Voltage
U 120V-277V
347 347V (ED, ED1 only)

–

Options	
ELL14	10W Emergency Battery Pack (CEC Title 20 Compliant) Installed [5, 7, 8]
ELL14H2	9W Emergency Battery Pack (CEC Title 20 Compliant) Installed, 2-Hour Run Time [5, 7, 8, 10]
DTS	Dimming Bypass Module [5, 11]
MPSCE	Injection Molded ABS Material Curve Endcap [12]
MPSCE-MB	Injection Molded ABS Material Curve Endcap, Matte Black [13]
MPSFE	Injection Molded ABS Material Flat Endcap [12]
MPSFE-MB	Injection Molded ABS Material Flat Endcap, Matte Black [13]
MB	Matte Black
SLV	Silver
PAF	Painted After Fabrication
MST	MASTER fixture that controls one or more SATELLITE fixtures in a continuous row application [14, 15, 16, 17, 18, 19, 20]
SAT	SATELLITE fixture controlled by MASTER fixture in a continuous row application [15, 16, 17, 18, 19, 20]
INT	Intermediate (provides ends with wiring access for continuous row mounting) [19, 20, 21]
EOR	End of Row (provides end wiring access for continuous row mounting) [19, 20, 21]
GLR	Fast Blow Fuse [5]

–

Control Options [12, 22, 23, 24]	
NX Lighting Controls	
Networked Wireless	
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [25, 26]
NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Networked Wired	
NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor [25, 26]
NXESM	NX Wired Dual RJ45 SmartPORTS & Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Independent Control	
NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy & Photocell Sensor [5, 27, 28, 29]
BTSL	Bluetooth Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [25, 26]
Other Lighting Controls	
Networked Wireless	
LVR	Lutron Vive Integral Fixture Control DFCSJ-OEM-RF (RF only) [5, 27, 28, 30]
LVS	Lutron Vive Integral Fixture Control DFCSJ-OEM-OCC (RF with daylight and occupancy sensing) [5, 27, 28, 30]
AWNR	Lutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) [5, 25, 28]
AWNS	Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing [5, 25, 28]
Independent Control	
ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 [5, 27, 28]
ZLS05	Occupancy & Daylight Sensor, Leviton ZLS05 [5, 25, 28]

Notes:

1 Refer to Row Mount Ordering Instructions for Continuous Row applications
2 Refer to SpectraSync and NX Availability table. Only available with ED driver and 80 CRI.
3 Only available with Curve, Frosted Acrylic lens option
4 Dimming curves may vary dependent upon lumen output and driver option chosen Separate dimming circuits are recommended if multiple driver options are chosen
5 Not available in 347V
6 Not available with 2ft: VW, MW, LW lumen packages, 4ft: XW, VL lumen packages or 8ft: MW, VL lumen packages
7 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
8 Not available with 2ft fixture. Not available with thru wire and XL or UL lumen package on 4ft and 8ft fixtures
9 Max ambient temperature, 25°C
10 Not available for use in Canada
11 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram. Cannot be combined with SpectraSync or Controls options in 2ft fixture
12 PAF option included when this option is chosen
13 Only available with MB or SLV finish options

Continuous Row Options

14 Not available with INT option
15 One MST fixture can control multiple SAT fixtures but a SAT fixture can only be controlled by one MST fixture
16 Only available with NX Networked, NX Wired and NX Wireless Controls, consult factory for applications
17 Not available with LUTH
18 Not available with DTS
19 All fixtures in a continuous row application must use the same driver type and voltage
20 Quick connect wiring harness included
21 Suspension support required at every fixture coupling, see Mounting Accessories Guide

All Controls

22 Control Options include injection molded ABS end cap
23 Dry location rated only
24 Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls

25 Only available with ED, ED1 or EDD driver options
26 Not available in 2ft when combined with SpectraSync

Other Lighting Controls Options

27 Only available with DALIP driver option
28 Not available with SpectraSync
29 Not available with 2ft: VW, MW and LW lumen packages or 4ft: XW lumen package
30 Vive is a trademark of Lutron Electronics Co., Inc.

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MPS

MULTIPURPOSE LINEAR

ORDERING GUIDE (CONTINUED)

Accessories	
☐ **S18**	18" Stem, Canopy
☐ **SS18**	18" Swivel Stem—45° Swivel
☐ **CM24SCF3-KIT**	24" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM48SCF3-KIT**	48" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM24NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-24"
☐ **CM48NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-48"
☐ **CSHC**	Chain Hanger Assembly
☐ **MPSZT**	Zip Tee Hanger - 1 ½" Spacer on T-Bar Ceiling
☐ **MPSTH**	Slide Tong Hanger
☐ **MPSCRK-C**	Continuous Row Kit, Curve
☐ **MPSCRK-F**	Continuous Row Kit, Flat
☐ **MPSWG2**	2' Wire Guard
☐ **MPSWG4**	4' Wire Guard[1]
☐ **MPSCE**	Injection Molded ABS Material Curve Endcap
☐ **MPSCE-MB**	Injection Molded ABS Material Curve Endcap, Matte Black
☐ **MPSFE**	Injection Molded ABS Material Flat Endcap
☐ **MPSFE-MB**	Injection Molded ABS Material Flat Endcap, Matte Black
☐ **REFL-MPS4 STL SLD W16**	4' Symmetric Reflector Solid[1]
☐ **REFL-MPS4 STL SLTD W16**	4' Symmetric Reflector Slotted[1]
☐ **REFL-MPS4 STL SLD ASYMW16**	4' Asymmetric Reflector Solid[1]
☐ **CBL-HB-120-6Y-PAD**	10ft Adjustable 10' aircraft cable Y hanger paddle ends (1 pair, must be used in conjunction with MPSTH accessory.)

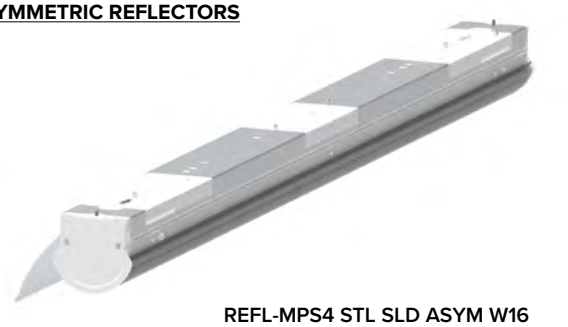
Notes:
1 Two Required for 8' fixture

SYMMETRIC REFLECTORS



REFL-MPS4 STL SLD W16
4' Symmetric Reflector Solid

ASYMMETRIC REFLECTORS



REFL-MPS4 STL SLD ASYM W16
4" Asymmetric Reflector Solid

CONTINUOUS ROW MOUNT EXAMPLE GUIDE					
Continuous Row Length	MPS4	MPS8	MPSCRK-*	CM**SCF*-KIT	CM**NF-KIT
12' — Option 1	1	1	1	1	1
12' — Option 2	3	0	2	1	1
16' — Option 1	0	2	1	1	1
16' — Option 2	2	1	2	1	2
32' — Option 1	0	4	3	2	1
32' — Option 2	2	3	4	2	1

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FP02

MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS

STANDARD EFFICACY PERFORMANCE TABLE — 2'

FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS2-VW	3500K	CURVE	WIDE	1560	10.4	150
			NARROW	1544	10.4	149
		FLAT	WIDE	1513	10.4	146
		NO LENS		1669	10.4	161
	4000K	CURVE	WIDE	1587	10.4	153
			NARROW	1571	10.4	151
		FLAT	WIDE	1539	10.4	148
		NO LENS		1698	10.4	163
MPS2-MW	3500K	CURVE	WIDE	2069	13.6	153
			NARROW	2048	13.6	151
		FLAT	WIDE	2007	13.6	148
		NO LENS		2214	13.6	163
	4000K	CURVE	WIDE	2104	13.6	155
			NARROW	2083	13.6	153
		FLAT	WIDE	2041	13.6	150
		NO LENS		2251	13.6	166
MPS2-LW	3500K	CURVE	WIDE	2639	17.2	153
			NARROW	2613	17.2	152
		NO LENS	WIDE	2560	17.2	149
				2824	17.2	164
	4000K	CURVE	WIDE	2683	17.2	156
			NARROW	2656	17.2	154
		FLAT	WIDE	2603	17.2	151
		NO LENS		2871	17.2	167
MPS2-ML	3500K	CURVE	WIDE	3262	21.5	152
			NARROW	3229	21.5	150
		FLAT	WIDE	3164	21.5	147
		NO LENS		3490	21.5	162
	4000K	CURVE	WIDE	3317	21.5	155
			NARROW	3284	21.5	153
		FLAT	WIDE	3217	21.5	150
		NO LENS		3549	21.5	165
MPS2-HL	3500K	CURVE	WIDE	3617	24.1	150
			NARROW	3581	24.1	149
		FLAT	WIDE	3508	24.1	146
		NO LENS		3870	24.1	161
	4000K	CURVE	WIDE	3678	24.1	153
			NARROW	3641	24.1	151
		FLAT	WIDE	3568	24.1	148
		NO LENS		3935	24.1	163
MPS2-VL	3500K	CURVE	WIDE	4433	28.1	158
			NARROW	4389	28.1	156
		FLAT	WIDE	4300	28.1	153
		NO LENS		4743	28.1	169
	4000K	CURVE	WIDE	4508	28.1	160
			NARROW	4463	28.1	159
		FLAT	WIDE	4373	28.1	156
		NO LENS		4824	28.1	172
MPS2-XL	3500K	CURVE	WIDE	5409	34.9	155
			NARROW	5355	34.9	153
		FLAT	WIDE	5247	34.9	150
		NO LENS		5788	34.9	166
	4000K	CURVE	WIDE	5500	34.9	158
			NARROW	5445	34.9	156
		FLAT	WIDE	5335	34.9	153
		NO LENS		5885	34.9	169
MPS2-UL	3500K	CURVE	WIDE	6202	40.6	153
			NARROW	6140	40.6	151
		FLAT	WIDE	6016	40.6	148
		NO LENS		6636	40.6	163
	4000K	CURVE	WIDE	6307	40.6	153
			NARROW	6244	40.6	154
		FLAT	WIDE	6118	40.6	151
		NO LENS		6748	40.6	166

STANDARD EFFICACY PERFORMANCE TABLE — 4'

FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS4-XW	3500K	CURVE	WIDE	2560	16.2	158
			NARROW	2534	16.2	156
		FLAT	WIDE	2483	16.2	153
		NO LENS		2739	16.2	169
	4000K	CURVE	WIDE	2603	16.2	161
			NARROW	2577	16.2	159
		FLAT	WIDE	2525	16.2	156
		NO LENS		2785	16.2	172
MPS4-VW	3500K	CURVE	WIDE	3271	20.5	160
			NARROW	3238	20.5	158
		FLAT	WIDE	3173	20.5	155
		NO LENS		3500	20.5	171
	4000K	CURVE	WIDE	3326	20.5	162
			NARROW	3293	20.5	161
		FLAT	WIDE	3226	20.5	157
		NO LENS		3559	20.5	174
MPS4-MW	3500K	CURVE	WIDE	3659	23.0	159
			NARROW	3622	23.0	157
		FLAT	WIDE	3549	23.0	154
		NO LENS		3915	23.0	170
	4000K	CURVE	WIDE	3721	23.0	162
			NARROW	3684	23.0	160
		FLAT	WIDE	3609	23.0	157
		NO LENS		3981	23.0	173
MPS4-LW	3500K	CURVE	WIDE	4270	26.9	159
			NARROW	4227	26.9	157
		FLAT	WIDE	4142	26.9	154
		NO LENS		4569	26.9	170
	4000K	CURVE	WIDE	4342	26.9	161
			NARROW	4299	26.9	160
		FLAT	WIDE	4212	26.9	157
		NO LENS		4646	26.9	173
MPS4-ML	3500K	CURVE	WIDE	4941	31.2	158
			NARROW	4892	31.2	157
		FLAT	WIDE	4793	31.2	154
		NO LENS		5287	31.2	169
	4000K	CURVE	WIDE	5025	31.2	161
			NARROW	4975	31.2	159
		FLAT	WIDE	4874	31.2	156
		NO LENS		5377	31.2	172
MPS4-HL	3500K	CURVE	WIDE	5918	37.6	157
			NARROW	5859	37.6	156
		FLAT	WIDE	5740	37.6	153
		NO LENS		6332	37.6	168
	4000K	CURVE	WIDE	6018	37.6	160
			NARROW	5958	37.6	158
		FLAT	WIDE	5837	37.6	155
		NO LENS		6439	37.6	171
MPS4-VL	3500K	CURVE	WIDE	7128	46.5	153
			NARROW	7057	46.5	152
		FLAT	WIDE	6914	46.5	149
		NO LENS		7627	46.5	164
	4000K	CURVE	WIDE	7249	46.5	156
			NARROW	7177	46.5	154
		FLAT	WIDE	7032	46.5	151
		NO LENS		7756	46.5	167
MPS4-XL	3500K	CURVE	WIDE	8715	55.1	158
			NARROW	8628	55.1	157
		FLAT	WIDE	8454	55.1	153
		NO LENS		9325	55.1	169
	4000K	CURVE	WIDE	8863	55.1	161
			NARROW	8774	55.1	159
		FLAT	WIDE	8597	55.1	156
		NO LENS		9483	55.1	172
MPS4-UL	3500K	CURVE	WIDE	10168	65.6	155
			NARROW	10066	65.6	153
		FLAT	WIDE	9863	65.6	150
		NO LENS		10880	65.6	166
	4000K	CURVE	WIDE	10340	65.6	158
			NARROW	10237	65.6	156
		FLAT	WIDE	10030	65.6	153
		NO LENS		11064	65.6	169

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MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS (CONTINUED)

STANDARD EFFICACY PERFORMANCE TABLE — 8'						
FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS8-XW	3500K	CURVE	WIDE	5120	31.2	164
			NARROW	5069	31.2	162
		FLAT	WIDE	4966	31.2	159
		NO LENS		5478	31.2	176
	4000K	CURVE	WIDE	5207	31.2	167
			NARROW	5155	31.2	165
		FLAT	WIDE	5051	31.2	162
		NO LENS		5571	31.2	179
MPS8-VW	3500K	CURVE	WIDE	6542	39.7	165
			NARROW	6477	39.7	163
		FLAT	WIDE	6346	39.7	160
		NO LENS		7000	39.7	176
	4000K	CURVE	WIDE	6653	39.7	168
			NARROW	6586	39.7	166
		FLAT	WIDE	6453	39.7	163
		NO LENS		7119	39.7	179
MPS8-MW	3500K	CURVE	WIDE	7318	44.7	164
			NARROW	7245	44.7	162
		FLAT	WIDE	7098	44.7	159
		NO LENS		7830	44.7	175
	4000K	CURVE	WIDE	7442	44.7	166
			NARROW	7368	44.7	165
		FLAT	WIDE	7219	44.7	161
		NO LENS		7963	44.7	178
MPS8-LW	3500K	CURVE	WIDE	8539	52.8	162
			NARROW	8454	52.8	160
		FLAT	WIDE	8283	52.8	157
		NO LENS		9137	52.8	173
	4000K	CURVE	WIDE	8684	52.8	164
			NARROW	8597	52.8	163
		FLAT	WIDE	8423	52.8	160
		NO LENS		9292	52.8	176
MPS8-ML	3500K	CURVE	WIDE	9882	61.5	161
			NARROW	9783	61.5	159
		FLAT	WIDE	9586	61.5	156
		NO LENS		10574	61.5	172
	4000K	CURVE	WIDE	10049	61.5	163
			NARROW	9949	61.5	162
		FLAT	WIDE	9748	61.5	158
		NO LENS		10752	61.5	175
MPS8-HL	3500K	CURVE	WIDE	11835	75.0	158
			NARROW	11717	75.0	156
		FLAT	WIDE	11480	75.0	153
		NO LENS		12663	75.0	169
	4000K	CURVE	WIDE	12036	75.0	160
			NARROW	11916	75.0	159
		FLAT	WIDE	11675	75.0	156
		NO LENS		12879	75.0	172
MPS8-VL	3500K	CURVE	WIDE	14257	93.1	153
			NARROW	14114	93.1	152
		FLAT	WIDE	13829	93.1	149
		NO LENS		15255	93.1	164
	4000K	CURVE	WIDE	14498	93.1	156
			NARROW	14353	93.1	154
		FLAT	WIDE	14063	93.1	151
		NO LENS		15513	93.1	167
MPS8-XL	3500K	CURVE	WIDE	17431	110.8	157
			NARROW	17257	110.8	156
		FLAT	WIDE	16908	110.8	153
		NO LENS		18651	110.8	168
	4000K	CURVE	WIDE	17726	110.8	160
			NARROW	17549	110.8	158
		FLAT	WIDE	17194	110.8	155
		NO LENS		18967	110.8	171
MPS8-UL	3500K	CURVE	WIDE	20336	131.3	155
			NARROW	20133	131.3	153
		FLAT	WIDE	19726	131.3	150
		NO LENS		21760	131.3	166
	4000K	CURVE	WIDE	20680	131.3	158
			NARROW	20473	131.3	156
		FLAT	WIDE	20060	131.3	153
		NO LENS		22128	131.3	169

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AMBIENT TEMPERATURE RATINGS

TEMPERATURE TABLE (C°) — 2', 4' & 8'						
80 CRI, Ceiling/Surface Mount						
Size	Lumen Package		Without Battery		With ELL14	With ELL14ST
			ED/ED1/EDD	ED347	ED/ED1/EDD	ED/ED1/EDD
2'	VW	1600	35	35	--	--
	MW	2200	35	35	--	--
	LW	2400	35	35	--	--
	ML	3400	35	35	--	--
	HL	3700	35	35	--	--
	VL	4400	35	35	--	--
	XL	5400	35	35	--	--
	UL	6200	35	35	--	--
4'	XW	2600	50	50	35	50
	VW	3300	50	50	35	50
	MW	3600	50	50	35	50
	LW	4000	50	50	35	50
	ML	4500	50	50	35	50
	HL	5800	45	45	35	40
	VL	6800	45	45	35	40
	XL	7800	45	45	35	40
	UL	10000	45	45	35	40
8'	XW	5200	50	50	35	50
	VW	6600	50	50	35	50
	MW	7200	50	50	35	50
	LW	7900	50	50	35	50
	ML	8900	50	50	35	50
	HL	11500	45	45	35	40
	VL	13500	45	45	35	40
	XL	15500	45	45	35	40
	UL	20000	45	45	35	40

Minimum ambient temperature is -30°C without battery and 0°C with battery

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.93	0.86	0.84
TM-21-22	25C/77F	0.93	0.86	0.84

* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

NX LIGHTING CONTROLS

NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓[1]		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓[2]		NXC-WIZ20
	BTSL	Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓		BTSMP-LMI

1 Requires NXBTC, order separately.

2 Requires use of NX Connect App available for download from Apple app store.

DEFAULT SETTINGS

NX Wirelss & Wired	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	Passcode Factory Passcode: HubbN3T!	Enabled

NX Independent - NX Connect (NXCS)	Settling/Dwell Time	5 sec
	Hold Time	10 min
	Group Hold Time	10 min
	Grace Time	-
	Strategy	Auto ON/OFF
	Occupancy Sensitivity	5 (highest)
	Occupancy Indicator	ON
	Partial Off/Standby	0%
	Background Level	50%
	Task Level	100%
	Daylight Harvesting	-
	Low Ambient Output	250%
	High Ambient Output	OFF

NX Independent - BTSL	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled

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NX LIGHTING CONTROLS (CONTINUED)

PRODUCT IMAGES



NXWSM
NXESM



NXCS



BTSL

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android

Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

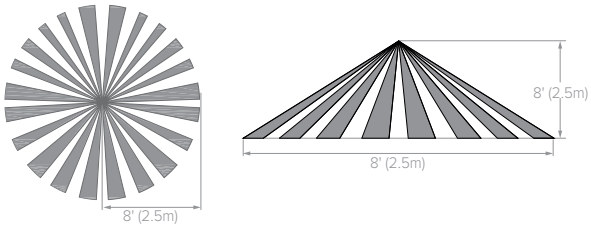
Apple iOS

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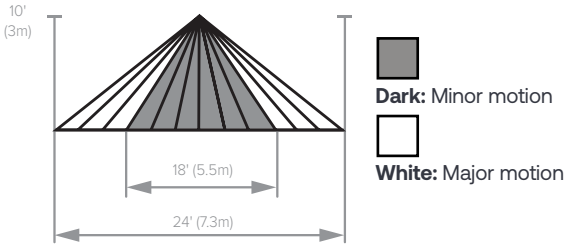
NX LIGHTING CONTROLS (CONTINUED)

COVERAGE PATTERNS

NXWSM/NXESM (NXSMP2-SMI SENSOR)

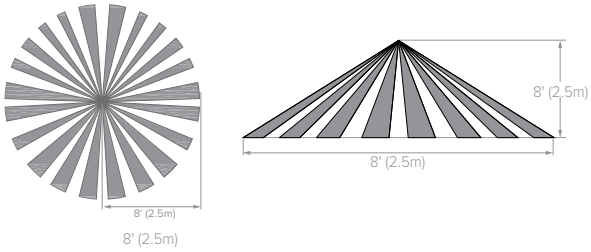


NXCS (NXC-WIZ20 SENSOR)



PIR sensor coverage tested as defined in NEMA WD7-2011

BTSL



OTHER LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.[1]	–	✓	–	✓	✓	✓	✓	✓[3]		SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs.[2]	✓	✓	✓	–	–	–	✓	–		DFCSJ-OEM-RF
	LVS		✓	✓	✓	✓	✓	–	✓	–		DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.[3]	✓	✓	–	–	–	✓	✓	–		A-WN-D01-RF-WH
	AWNS		✓	✓	✓	✓	✓	✓	✓	–		A-WN-D01-OCC-WH

1 Philips MasterConnect App required for field configuration.
2 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.
3 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

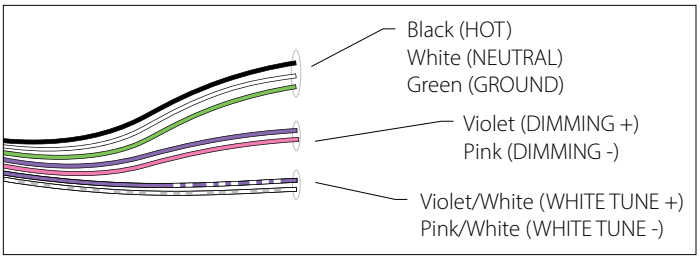
SPECTRASYNC™ COLOR TUNING TECHNOLOGY

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White

Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

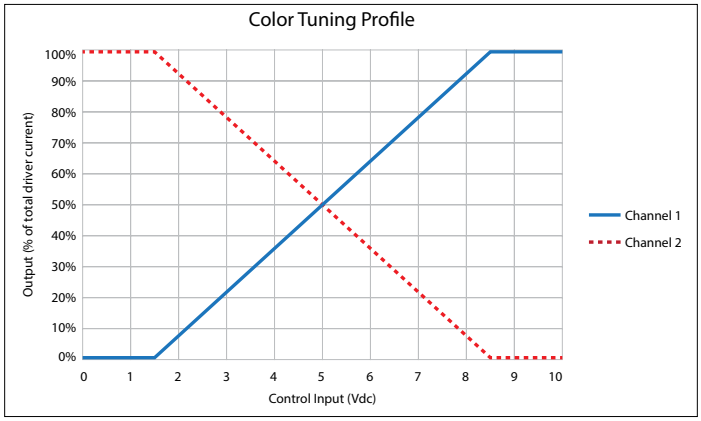


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

SPECTRASYNC™ AND NX AVAILABILITY TABLE

		Only With 80 CRI No Battery Pack			Only With 80 CRI With Battery Pack		
Size	Lumen package	CTC	NX	CTC+NX	CTC	NX	CTC+NX
2ft	VW	Y	Y	N	—	—	—
	MW	Y	Y	N	—	—	—
	LW	Y	Y	N	—	—	—
	ML	N	Y	N	—	—	—
	HL, VL, XL, UL	N	Y	N	—	—	—
4ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	Y	Y	Y	Y	Y	Y
	LW	Y	Y	Y	Y	Y	Y
	ML	Y	Y	Y	Y	Y	Y
	HL	Y	Y	Y	Y	Y	Y
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N
8ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	N	Y	N	N	Y	N
	LW	N	Y	N	N	Y	N
	ML	N	Y	N	N	Y	N
	HL	N	Y	N	N	Y	N
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N

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Columbia LIGHTING

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TYPE: PROJECT:

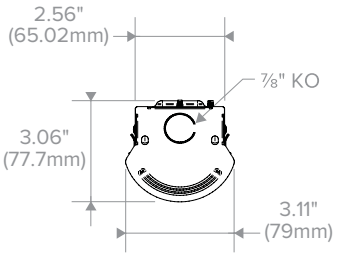
CATALOG #:

MPS

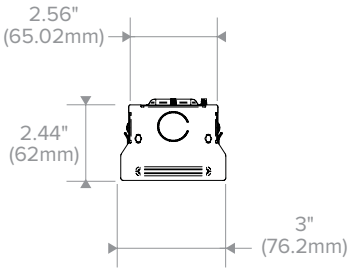
MULTIPURPOSE LINEAR

DIMENSIONS

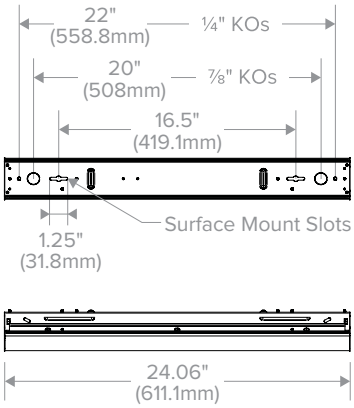
MPS END View - Curve Lens



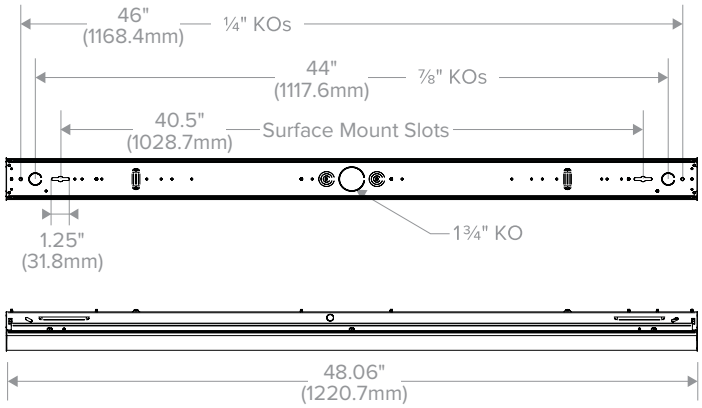
MPS END View - FLAT Lens



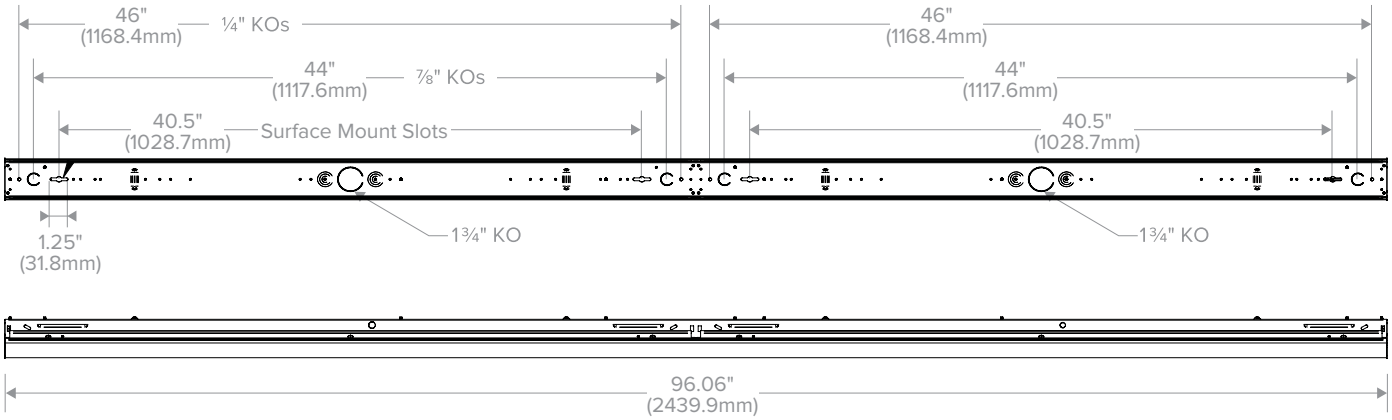
MPS 2' Dimensions



MPS 4' Dimensions



MPS 8' Dimensions



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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

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MPS

MULTIPURPOSE LINEAR

PHOTOMETRY

MPS4-40ML-CW-EDU

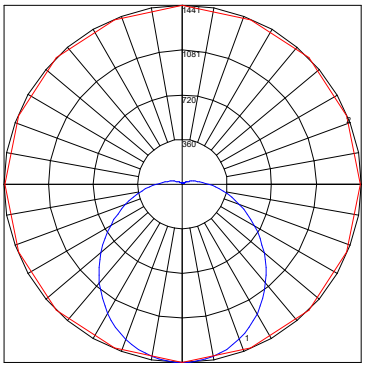
LUMINAIRE DATA

Test No.	**23.0113**
Description	**4' Multi-Purpose Strip-Light w/ Diffuse, Curved Acrylic Lens**
Delivered Lumens	**5025**
Watts	**31.2**
Efficacy	**161**
Mounting	**Surface**
Spacing Criterion	**0° = 1.20 90° = 1.32**

ZONAL LUMEN SUMMARY

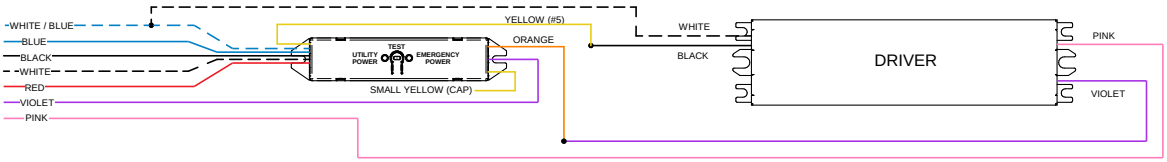
Zone	Lumens	% Luminaire
0–30	1145.29	22.8
0–40	1872.04	37.3
0–60	3334.68	66.4
0–90	4648.46	92.5
0–180	5024.73	100.0

POLAR GRAPH



Maximum Candela = 1440.943 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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FR01A

Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

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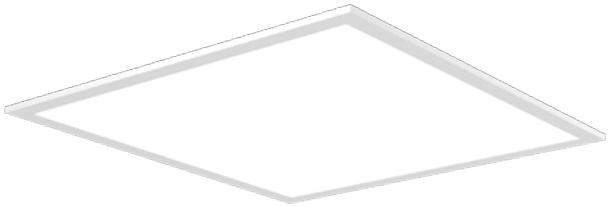
CBT LSCS 120-347V

BACK-LIT TROFFER

tradeSELECT

FEATURES

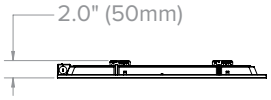
- Switchable Lumen technology: 4400/3300/2750 lumens (1x4, 2x2) 5500/4400/3300 lumens (2x4)
- Switchable CCT technology: 3500/4000/5000K
- 0-10V 1% Dim to Off driver (standard) provides superior dimming capabilities
- IC rated
- Back-lit design and frosted lens provides smooth, even illumination across the face of the luminaire
- All CBT LSCS Generation B fixtures are priced as single fixtures and must be ordered as single fixtures. Standard packaging is a master carton containing four individually boxed fixtures



SERVICE PROGRAMS

STOCK

SWITCHABLE LUMEN & CCT | CERTIFIED | DLC LISTED | DAMP LOCATION | ISO 4 | UL Sanitation



Typical Dimensions and Weights			
	CBT14 (1x4)	CBT22 (2x2)	CBT24 (2x4)
Length	11.9" / 303 mm	23.7"/ 603 mm	23.7"/ 603 mm
Width	47.8" / 1213 mm	23.7"/ 603 mm	47.8" / 1213 mm
Height	2.0" / 50 mm	2.0" / 50 mm	2.0" / 50 mm
Weight*	4.99lbs / 2.26kg	4.92lbs / 2.23kg	9.37lbs / 4.25kg

SPECIFICATIONS

CONSTRUCTION

- Aluminum lens frame has a matte white finish
- Luminaire housing is die formed code-gauge steel
- Low profile design is ideal for shallow plenum applications

OPTICS

- Acrylic micro-optics over each LED provide edge to edge illumination without pixelation or bright spots
- Frosted acrylic textured lens provides smooth surface brightness

INSTALLATION

- Integral T-bar clips for secure mounting to 9/16" and 15/16" grid ceiling
- For surface mount applications use surface mount kit accessories
- For plaster or sheet rock installations, use flange kit accessories

ELECTRICAL

- 60,000 hour LEDs at L90 for reduced maintenance
- Operates at 120–347V. 1V minimum low-end trim recommended when paired with a 0-10V dimmer
- 0–10V 1% Dim to Off driver is standard. See additional info on page 6
- Switchable luminaire default settings at highest lumen output and 3500K

PACKAGING

- All CBT LSCS Generation B fixtures are priced as single fixtures and must be ordered as single fixtures. Standard packaging is a master carton containing four individually boxed fixtures. It should be noted in receiving documents that one master carton includes four individually boxed fixtures and should be received as four fixtures
- Ordering example; If a customer orders 21 fixtures they will receive (5) master cartons containing four fixtures and (1) individually boxed fixture.

CERTIFICATIONS

- All luminaires are built to UL 1598 standards and bear appropriate cULus labels
- Damp location label standard
- Adheres to LM79, LM80, and TM21 industry standards for photometrics and lifetime calculations
- DLC® (DesignLights Consortium Qualified.) Please refer to the DLC website for specific product qualifications at www.designlights.org
- UL Sanitation Certified to NSF 2 Food Equipment standard for non-food zones
- Tested in accordance with ISO 14644-1; suitable for ISO Class 4 positive and negative pressure clean rooms

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	2856 - 5997
Wattage Range	23W - 45W
Efficacy Range (LPW)	113 - 143
Reported Life (Hours)	L90/60,000

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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

CBT LSCS 120-347V

BACK-LIT TROFFER

ORDERING GUIDE

Example: CBT24-B-LSCS-EDD

CATALOG # _____

CBT		–		–		–	
Model	**Size**		**Generation**		**Selectable**		**Driver**
CBT Back-lit Troffer	**14** 1x4 **22** 2x2 **24** 2x4		**B** Generation B		**LSCS** Lumen Selectable, CCT Selectable		**EDD** 0-10V Dim to Off [1]

Notes:

1 EDD - Dim to Off Standard. See additional detail on page 6

STOCKED OPTIONS

	Catalog No.	SKU UPC	Master Carton UPC	Description	Setting	Lumens 3500K	Lumens 4000K	Lumens 5000K	Watts	LPW 3500K	LPW 4000K	LPW 5000K	Weight	Carton QTY	DLC
☐	**CBT14-B-LSCS-EDD**	840141430312	10840141430314	1x4 Back-Lit Troffer; **4400**/3300/2750 Switciable Lumens; **3500**/4000/5000K Switchable CCT 80 CRI; 0-10V 1% Dim to Off; 120-347V	LOW	2856	3012	2957	23	124	131	129	4.99 lbs. (2.19kg)	4	S-CNZD50
					MED	3323	3521	3438	27	123	130	127			
					HIGH	4423	4761	4577	39	113	122	117			
☐	**CBT22-B-LSCS-EDD**	840141430324	10840141430321	2x2 Back-Lit Troffer; **4400**/3300/2750 Switciable Lumens; **3500**/4000/5000K Switchable CCT 80 CRI; 0-10V 1% Dim to Off; 120-347V	LOW	2955	3091	3040	23	128	134	132	4.92lbs (2.23kg)	4	S-DMXVQI
					MED	3437	3616	3542	27	127	134	131			
					HIGH	4593	4897	4714	38	121	129	124			
☑	**CBT24-B-LSCS-EDD**	840141430331	10840141430338	2x4 Back-Lit Troffer; **5500**/4400/3300 Switchable Lumens; **3500**/4000/5000K Switchable CCT 80 CRI; 0-10V 1% Dim to Off; 120-347V	LOW	3457	3564	3545	25	138	143	142	9.37 lb (4.25 kg)	4	S-EJO95G S-VGWHF3
					MED	4610	4791	4722	35	132	137	135			
					HIGH	5727	5997	5858	45	127	133	130			

Bold indicates default settings

MADE TO ORDER OPTIONS

Factory Installed Flexible Conduit & Battery Options

	Catalog Number	UPC	Description	Carton Qty
☐	**CBT14-A-LSCS-EDD-ELL14** *	840141430058	1x4 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery (CEC Title 20 Compliant)	1
☐	**CBT22-A-LSCS-EDD-ELL14** *	840141430065	2x2 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery (CEC Title 20 Compliant)	1
☐	**CBT24-A-LSCS-EDD-ELL14** *	840141430072	2x4 Back-lit LED Troffer, 5500/4400/3300lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery (CEC Title 20 Compliant)	1
☐	**CBT14-A-LSCS-EDD-C588**	603134946468	1x4 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 5 Wire Flexible Conduit	1
☐	**CBT22-A-LSCS-EDD-C588**	603134946482	2x2 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 5 Wire Flexible Conduit	1
☐	**CBT24-A-LSCS-EDD-C588**	603134946505	2x4 Back-lit LED Troffer, 5500/4400/3300lm, 3500/4000/5000K, Dim to Off, Factory Installed 5 Wire Flexible Conduit	1
☐	**CBT14-A-LSCS-EDD-ELL14-C688** *	603134946475	1x4 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery & 6 Wire Flexible Conduit	1
☐	**CBT22-A-LSCS-EDD-ELL14-C688** *	603134946499	2x2 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery & 6 Wire Flexible Conduit	1
☐	**CBT24-A-LSCS-EDD-ELL14-C688** *	603134946512	2x4 Back-lit LED Troffer, 5500/4400/3300lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery & 6 Wire Flexible Conduit	1

* ELL14 options are only available for use with 120-277V.

* ELL14 option uses a 10 watt Emergency Battery. To determine lumen output in emergency mode, multiply 10w by the fixture lumens per watt (LPW). EX: 10w x 123LPW = 1230 Lumens in Emergency Mode

* CBT Gen A fixtures with factory installed ELL14 option require a remote mounted test switch. The Dual Lite PLRTS is included with each CBT that has a factory installed ELL14 option, standard.

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Columbia LIGHTING

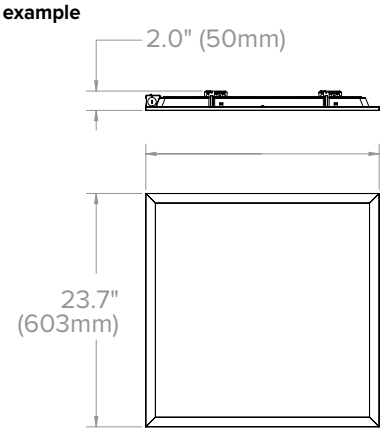
CBT LSCS 120-347V

BACK-LIT TROFFER

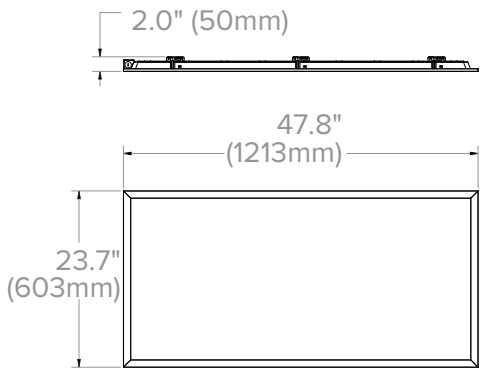
Accessories (Order Separately)	Part #	UPC	Notes & Restrictions
Flange Kits			
☐ **FK14**	FK14	078531000745	1x4 Single Flange Kit
☐ **FK22**	FK22	078531000752	2x2 Single Flange Kit
☐ **FK24**	FK24	078531038991	2x4 Single Flange Kit
Surface Mount Kits			
☐ **PSMK14**	93302543	662055127905	1x4 Shallow Surface Mount Kit, 63mm
☐ **PSMK22**	93302544	662055127912	2x2 Shallow Surface Mount Kit, 63mm
☑ **PSMK24**	93302545	662055127929	2x4 Shallow Surface Mount Kit, 63mm
☐ **DSMK14**	93313908	840141433134	1x4 Deep Surface Mount Kit, 110mm, for use with ELL14 and EMBB options
☐ **DSMK22**	93313898	840141433219	2x2 Deep Surface Mount Kit, 110mm, for use with ELL14 and EMBB options
☐ **DSMK24**	93313899	840141433226	2x4 Deep Surface Mount Kit, 110mm, for use with ELL14 and EMBB options
Switch Cover			
☐ **PSC Switch Cover 50PK**	93167456	840141413426	CBP Gen A Selectable Driver Switch Cover

DIMENSIONS

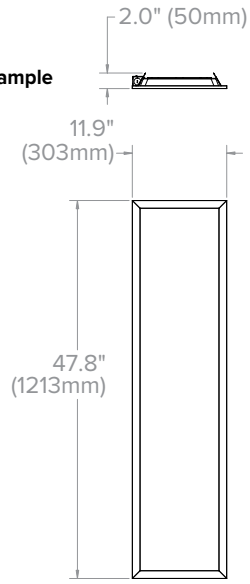
2x2 example



2x4 example



1x4 example



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Columbia LIGHTING

CBT LSCS 120-347V

BACK-LIT TROFFER

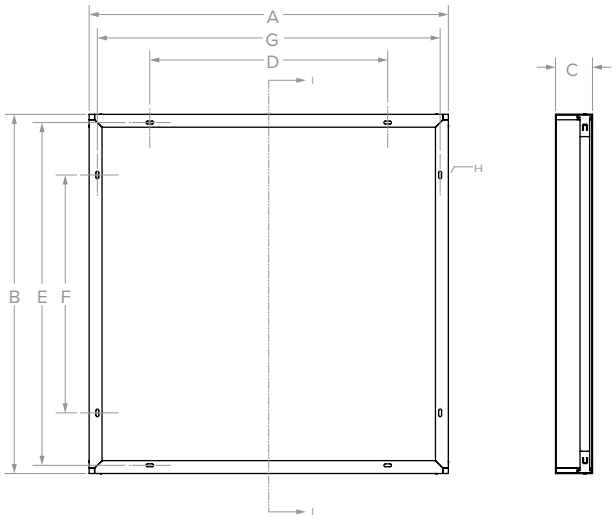
DATE: LOCATION:

TYPE: PROJECT:

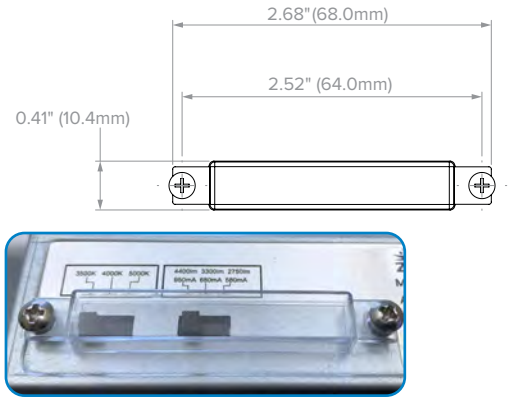
CATALOG #:

ACCESSORY DIMENSIONS

Surface Mount PSMK Dimensions - 2x2
example see below chart for all size dimensions



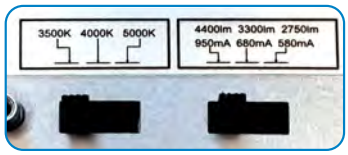
PSC Switch Cover



Product Code	Description	A (in)	B (in)	C (in)	D (in)	E (in)	F (in) Between Holes	G (in)
93302543	PSMK14 1x4 SMK - 63mm	12.32	48.09	2.48	-	46.91	16.0 (3 holes)	11.14
93302544	PSMK22 2x2 SMK - 63mm	24.25	24.25	2.48	16.0	23.06	16.0	23.06
93302545	PSMK24 2x4 SMK - 63mm	24.25	48.09	2.48	16.0	46.91	16.0 (3 holes)	23.06
93313908	DSMK14 1x4 SMK - 110mm	12.35	48.07	4.34	-	46.91	16.0 (3 holes)	11.14
93313898	DSMK22 2x2 SMK - 110mm	24.27	24.27	4.34	16.0	23.06	16.0	23.06
93313899	DSMK24 2x4 SMK - 110mm	24.27	48.07	4.34	16.0	46.91	16.0 (3 holes)	23.06

ADDITIONAL INFO

LSCS Switches Default Settings
Maximum Lumen Output and 3500K CCT



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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

CBT LSCS 120-347V

BACK-LIT TROFFER

0-10V DIMMER COMPATIBILITY

Fixture operates at 120-277V. 0-10V dimmable driver, down to 1%.

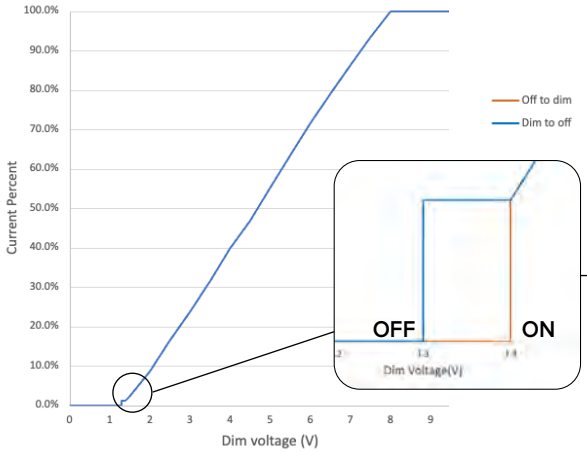
1V minimum low-end trim recommended when paired with a 0-10V dimmer.

List of suitable dimmers based on laboratory testing. Compatibility must be verified by customer before install. Columbia cannot guarantee dimmer compatibility

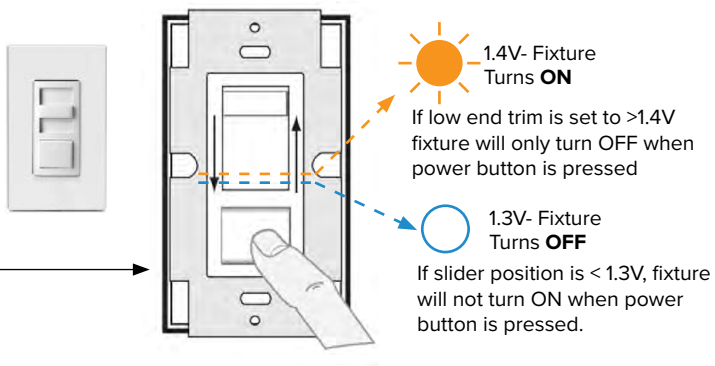
- NX Lighting Controls RSD710
- NX Lighting Controls PSD710
- Lutron® Diva DVST
- LUTRON DVTV
- LUTRON NTSTV-DV
- Eaton® DF10P-C1
- Synergy® ISD BC120/277
- Enerlites® 51300L

ADDITIONAL DIMMING INFORMATION: DIMMING CURVE

0-10V DIMMING CURVE



WALLBOX DIMMER EXAMPLE



DIM TO DARK FUNCTION

Dimmer Low End Trim Settings	ON/OFF Operation		Dimmer Control Range
> 1.4V	**ON/OFF** Toggle power control only		Full output to Low End Trim Setting
1.3V to 1.4V	**ON** Adjust dimmer control above 1.4V + Set power control to ON	**OFF** Set power control to OFF	Full output to Low End Trim Setting
< 1.3V	**ON** Adjust dimmer control above 1.4V + Set power control to ON	**OFF** Set power control to OFF or Adjust dimmer below 1.3V level	Full output to OFF

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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FR01B

LJT24

2' × 4' LED TROFFER

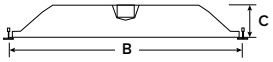
FEATURES

- Full distribution LED troffer
- Direct replacement of fluorescent 2x4
- Wet location option available
- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs
- Four LED color choices and 80 CRI
- Many shielding choices
- Two door frame choices
- Metal to metal light leak protection on all four sides of shielding frame
- Fixed output, step dimming (high/low/off), 0-10V dimming, 0-10V dimming-dim to off drivers available
- Hinged optical system allows easy access to LED modules and electrical from below the ceiling
- UL Sanitation certified per NSF standards
- All models standard with IC rating



SERVICE PROGRAMS

QS10



Typical Dimensions and Weights				
Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
2x4	48 (1219)	24 (610)	3.125 (79)	16 (7.3)

SPECIFICATIONS

CONSTRUCTION

- Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel
- Optical system hinges from either side for easy access to LED module and electrical components
- Mechanical light trap prevents light leaks

FINISH

- All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel

SHIELDING

- Lens is high transmission pattern #12 acrylic (A12) for light diffusion without compromise to light output
- Other shielding may be specified
- If desired shielding media is not shown in ordering guide, contact your local representative

INSTALLATION

- An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway

CEILING COMPATIBILITY

- Designed for recessed installation in standard inverted tee grid ceilings (G)
- Four integral T-bar clips standard
- Also available for recessed installation in hard ceilings (G with FK accessory), surface mount at ceiling plane (SM), or cable mount suspension below ceiling plane (CM)
- For compatibility with specific ceilings contact your representative

CERTIFICATIONS

- All luminaires are built to UL 1598 standards, and bear appropriate CSA labels
- UL Sanitation Certified per NSF Standards
- Damp location labeling standard, wet location labeling is optional
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- Adheres to LM79, LM80 and TM21 industry standards
- IC rating is standard on all models
- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org

CERTIFICATIONS (CONTINUED)

- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

- 5 year warranty

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Columbia LIGHTING

LJT24

2' × 4' LED TROFFER

DATE: | LOCATION: | FR01B

TYPE: | PROJECT:

CATALOG #:

Gray Shading = Service Program Limit of 250 Luminaries QS10

ORDERING GUIDE

Example: LJT24-35MLG-FSA12-EU

LJT 24 – – – –

Model	Size
LJT LED Lensed Troffer	**24** 2'x4'

Color Temp	
30	3000K
35	3500K
40	4000K
50	5000K

Lumen Output	
XW	Extra Low Watt
VW	Very Low Watt
MW	Medium Low Watt
LW	Low Watt
ML	Medium Lumen
HL	High Lumen
VL	Very High Lumen
XL	Extra High Lumen
UL	Ultra High Lumen
EL	Extreme Lumen
VEL	Very Extreme Lumen

See Product Availability Table Below

Ceiling Type	
G	Grid [1]
SM	Surface Mount
CM	Cable Mount

Door	
FS	White Flush Steel
FA	White Flush Aluminum
RA	Regressed Aluminum [2]

Shielding	
A12	Pattern 12 Acrylic Lens
A12125	Pattern 12 Acrylic Lens, 0.125" Nominal
A12F	Pattern 12 Frosted Acrylic Lens
A12125F	Pattern 12 Frosted Acrylic Lens, 0.125" Nominal
A19	Pattern 19 Acrylic Lens, 0.156" Nominal
A19F	Pattern 19 Frosted Acrylic Lens 0.156"
CP	Clear Polycarbonate
SFA	Smooth Frosted Acrylic

–

Driver	
E	Fixed Output
ED	0–10V Dimming
ED1	0–10V 1% Dimming
EDD	0-10V Dimming, Dim to Off [3]
ESD	Step Dimming [3,4]
LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [3,4]

Voltage	
U	120–277V
347	347V

–

Options	
ELL14	Emergency Battery Pack (CEC Title 20 compliant) Installed [4,5,6,7]
C388	3-wire Flex
C488	4-wire Flex
C588	5-wire Flex
C688	6-wire Flex
GLR	Fast Blow Fuse
GTD	Generator Transfer Device [8]
DTS	Dimming Bypass Module [4,6,9]
G1	Single Gasketing (Door to Housing)
G2	Double Gasketing (G1 and Lens to Door)
G3	Triple Gasketing (G2 and Housing to Ceiling)
WL	Wet Location (Select G2 or G3 Gasketing) [10]
EOR	End of Row (SM and CM only. Provides end wiring access for continuous row mounting.)
INT	Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.)
CP	Chicago Plenum
PAF	Paint After Fabrication

ACCESSORY ORDERING GUIDE

Accessories	
☐ **FK24**	2' × 4' Single Flange Kit (Shipped separately)
☐ **CM48YSC3F-KIT**	48" Cable Mount Kit for CM ceiling type, 3 Wire Feed Cord

Notes:

1 For drywall, order G with flange kit accessory
2 Option increases overall fixture height to 4.25"
3 Not available in all lumen packages, refer to Driver Availability table
4 Not available in 347V
5 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
6 For compatibility with Dual-Lite Litegear inverters, contact lighting representative
7 UL, EL and VEL lumen packages are not available with thru wiring when combined with ELL14 option
8 Only available with E, Fixed Output driver option
9 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram
10 Only available with FA door and Grid ceiling mount

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LJT24

2' × 4' LED TROFFER

PRODUCT EXCEPTIONS & DETAILS

Driver options listed below are available for the outputs as shown.

DRIVER AVAILABILITY TABLE											
	XW	VW	MW	LW	ML	HL	VL	XL	UL	EL	VEL
E	x	x	x	x	x	x	x	x	x	x	x
ED	x	x	x	x	x	x	x	x	x	x	x
ED1	x	x	x	x	x	x	x	x	x	x	x
EDD	x	x	x	x	x	x	x				
ESD			x	x	x	x	x				
LUTH	x	x	x	x	x	x					

DELIVERED LUMENS

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
LJT24-50XWG-FSA12-EU	2919	20	145
LJT24-40XWG-FSA12-EU	2681	20	133
LJT24-35XWG-FSA12-EU	2640	20	131
LJT24-30XWG-FSA12-EU	2563	20	127
LJT24-50VWG-FSA12-EU	3806	27	142
LJT24-40VWG-FSA12-EU	3495	27	130
LJT24-35VWG-FSA12-EU	3441	27	128
LJT24-30VWG-FSA12-EU	3341	27	125
LJT24-50MWG-FSA12-EU	4297	31	140
LJT24-40MWG-FSA12-EU	3946	31	129
LJT24-35MWG-FSA12-EU	3886	31	127
LJT24-30MWG-FSA12-EU	3772	31	123
LJT24-50LWG-FSA12-EU	4720	34	139
LJT24-40LWG-FSA12-EU	4334	34	127
LJT24-35LWG-FSA12-EU	4268	34	126
LJT24-30LWG-FSA12-EU	4144	34	122
LJT24-50MLG-FSA12-EU	5218	38	136
LJT24-40MLG-FSA12-EU	4792	38	125
LJT24-35MLG-FSA12-EU	4718	38	123
LJT24-30MLG-FSA12-EU	4581	38	119
LJT24-50HLG-FSA12-EU	6017	45	133
LJT24-40HLG-FSA12-EU	5526	45	122
LJT24-35HLG-FSA12-EU	5441	45	120
LJT24-30HLG-FSA12-EU	5286	45	117

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
LJT24-50VLG-FSA12-EU	8191	59	138
LJT24-40VLG-FSA12-EU	7522	59	127
LJT24-35VLG-FSA12-EU	7407	59	125
LJT24-30VLG-FSA12-EU	7192	59	121
LJT24-50XLG-FSA12-EU	9763	73	134
LJT24-40XLG-FSA12-EU	8966	73	123
LJT24-35XLG-FSA12-EU	8829	73	121
LJT24-30XLG-FSA12-EU	8571	73	117
LJT24-30ULG-FSA12-EU	9578	74.8	128
LJT24-35ULG-FSA12-EU	9865	74.8	132
LJT24-40ULG-FSA12-EU	10018	74.8	134
LJT24-50ULG-FSA12-EU	10909	74.8	146
LJT24-30ELG-FSA12-EU	11460	92	125
LJT24-35ELG-FSA12-EU	11804	92	128
LJT24-40ELG-FSA12-EU	11987	92	130
LJT24-50ELG-FSA12-EU	13053	92	142
LJT24-30VELG-FSA12-EU	13126	100.1	131
LJT24-35VELG-FSA12-EU	13520	100.1	135
LJT24-40VELG-FSA12-EU	13730	100.1	137
LJT24-50VELG-FSA12-EU	14951	100.1	149

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Columbia LIGHTING

LJT24

2' × 4' LED TROFFER

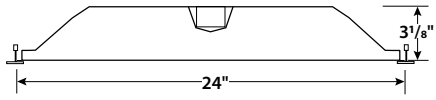
DATE: | LOCATION:

TYPE: | PROJECT:

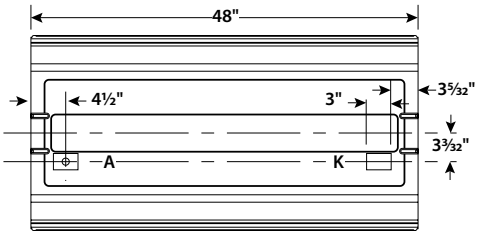
CATALOG #:

FR01B

DIMENSIONS



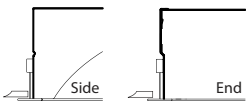
2' × 4' 2-Lamp Lay-In



A: ⅞" Diameter knockout
K: 2" × 3" through hole for access plate.

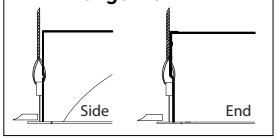
CEILING COMPATIBILITY

Type G



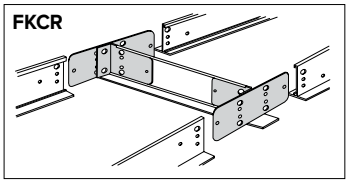
For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK24 Flange Kit



For hard ceiling applications, order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

FKCR

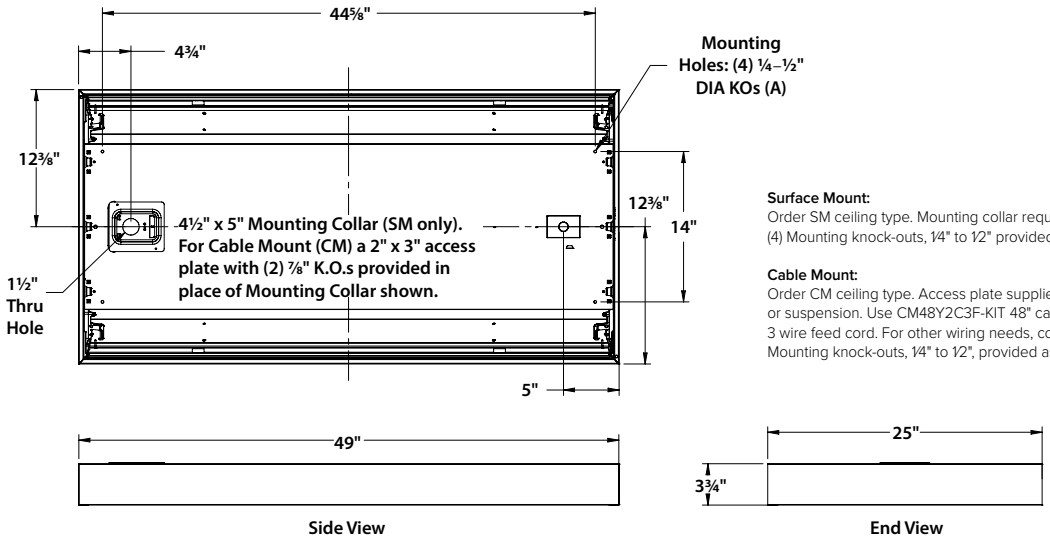


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters:
Width 24⅜", Length [48" × (# in row)] + ⅜".
Example: (48" × 2) + ⅜" = 96⅜"

Flange kit cut out dimension for single unit only: 24⅜" × 48⅜"

SURFACE MOUNT OR CABLE MOUNT



Side View

End View

Surface Mount:
Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ¼" to ½" provided as shown, marked "A".

Cable Mount:
Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact your representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

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Columbia LIGHTING

LJT24

2' × 4' LED TROFFER

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FR01B

PHOTOMETRY

Test **16399** Test Date **06/28/2016**

LUMINAIRE DATA

Luminaire	**LJT24-40LWG-FSA12-EU** **LJT LED, Lensed Troffer** **2' X 4' LED with A12 pattern acrylic prismed lens**
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4334**
Watts	**34.00**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.19 90° = 1.19**
Luminous Opening in feet	**Length: 3.92** **Width: 1.92** **Height: 0.00**

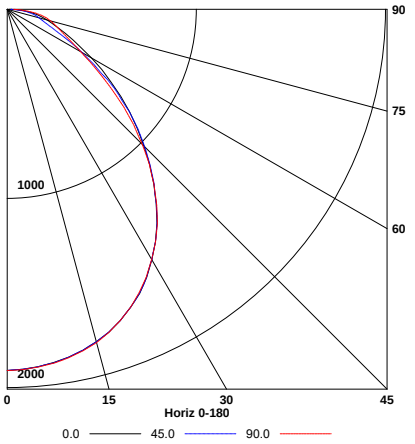
ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**127**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.89 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1456	33.6	33.6
0-40	2317	53.5	53.5
0-60	3680	84.9	84.9
0-90	4334	100.0	100.0
0-180	4334	100.0	100.0

INDOOR CANDELA PLOT



Test **16402** Test Date **06/27/2016**

LUMINAIRE DATA

Luminaire	**LJT24-40MLG-FSA12-EU** **LJT LED, Lensed Troffer** **2' X 4' LED with A12 pattern acrylic prismed lens**
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4792**
Watts	**38.40**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.19 90° = 1.19**
Luminous Opening in feet	**Length: 3.81** **Width: 1.80** **Height: 0.00**

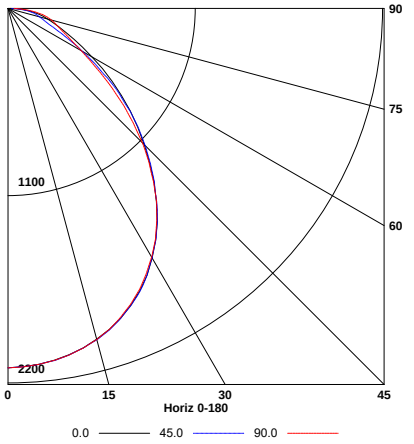
ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**125**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.90 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1609	33.6	33.6
0-40	2562	53.5	53.5
0-60	4069	84.9	84.9
0-90	4792	100.0	100.0
0-180	4792	100.0	100.0

INDOOR CANDELA PLOT



Test **16405** Test Date **06/28/2016**

LUMINAIRE DATA

Luminaire	**LJT24-40HLG-FSA12-EU** **LJT LED, Lensed Troffer** **2' X 4' LED with A12 pattern acrylic prismed lens**
Ballast	**XI054C150V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**5526**
Watts	**45.20**
Mounting	**Recessed**
Shielding Angle	**0° = 90 90° = 90**
Spacing Criterion	**0° = 1.18 90° = 1.18**
Luminous Opening in feet	**Length: 3.81** **Width: 1.80** **Height: 0.00**

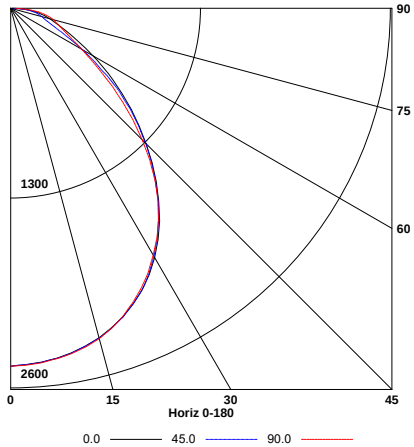
ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**122**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.95 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1870	33.8	33.8
0-40	2975	53.8	53.8
0-60	4704	85.1	85.1
0-90	5526	100.0	100.0
0-180	5526	100.0	100.0

INDOOR CANDELA PLOT



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LJT24

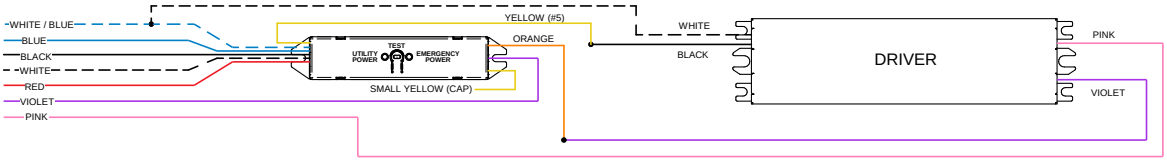
2' × 4' LED TROFFER

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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Columbia LIGHTING

FP02

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

FEATURES

- Uniform end-to-end lens brightness with optional continuous row mounting that gives an uninterrupted ribbon of light
- Superior color consistency within a 3-step MacAdam ellipse and greater than 80 CRI
- Available in 2', 4' or 8' lengths
- Optional 90 or 120 min integral emergency battery pack (CEC Title 20 Compliant)
- Curved and flat acrylic and curved polycarbonate lens options or a no lens (NL) version. Wide and Narrow distributions available
- Modular replaceable LED boards and driver accessible for future maintenance or upgrades
- Surface mount, wall mount or suspended mounting





NXWSM, NXESM



NXCS

SERVICE PROGRAMS

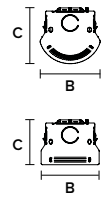
STOCK QS10

CONTROLS TECHNOLOGY

SpectraSync Color Tuning Technology | NX WIRELESS | NX WIRED | NX CONNECT | OCCUPANCY SENSING | DAYLIGHT HARVESTING

End View Curve Lens

End View Flat Lens



Typical Dimensions and Weights					
Sizes	(B) Width Inches (mm)		(C) Height Inches (mm)		Weight lbs (kg)
	Curve Lens	Flat Lens	Curve Lens	Flat Lens	
2'	3.11 (79)	3.00 (76)	3.06 (78)	2.44 (62)	4.0 (1.8)
4'					6.0 (2.7)
8'					12.0 (5.4)

SPECIFICATIONS

CONSTRUCTION

- Housing, wireway, and ends are formed from code-gauge steel
- Housing components act as heat sink for LED heat dissipation
- White painted parts are treated with a five stage phosphate bonding process and finished with high reflectance baked enamel

OPTICS

- Available with or without frosted lens

INSTALLATION

- Knockouts are provided for electrical access and mounting
- WARNING – Removing the lens during installation exposes the LEDs and due to their fragility they could be damaged. Handle the LED reflector plate with care, do not rest the LED reflector plate upside down directly on its LEDs as this could result in damage. Damage to LEDs from mishandling during installation will not be covered under warranty

ELECTRICAL

- Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance
- Driver options include fixed output for on/off function, step dimming (high/low/off), or continuous 0–10V dimming
- Superior drivers and long-life LEDs provide quality illumination for prolonged service life

ELECTRICAL (CONTINUED)

- Drivers < 10% THD at 120V, power factor > 0.95
- Lumen packages up to 10,000 lumens rated to 40°C (104°F) max ambient. Lumen packages up to 5,000 lumens rated to 50°C (122°F) max ambient. Minimum ambient temperature -20°C (-4°F)

CONTROLS

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices
- SpectraSync (TM) Color Tuning Technology offers a tunable white solution and integrates seamlessly into a variety of control systems

CERTIFICATIONS

- All luminaires are built to UL 1598 standards, and bear appropriate cCSAus labels
- Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- DLC® (DesignLights Consortium) Qualified, Please refer to the DLC website for specific product qualifications at www.designlights.org
- Adheres to LM79, LM80, and TM21 industry standards
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

- 5 year warranty

STOCK GUIDE

STOCK

	Catalog No.	UPC	Description	Weight (lbs)	Pallet Qty	DLC QPL
☐	MPS4-35ML-CW-EDU	078531138714	4', 80 CRI, 3500K, 4556 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 114 LPW, White	6.1	56	PKQ78077
☐	MPS4-35ML-FW-EDU	603134946413	4', 80 CRI, 3500K, 4230 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 134 LPW, White	6.1	56	P9P5CV62
☐	MPS4-40ML-CW-EDU	078531138721	4', 80 CRI, 4000K, 4614 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 115 LPW, White	6.1	56	P04CB2S2
☐	MPS4-40ML-FW-EDU	603134946420	4', 80 CRI, 3500K, 4277 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 135 LPW, White	6.1	56	PLLGKQUG
☐	MPS8-50ML-CW-EDU	078531138752	8', 80 CRI, 5000K, 9532 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 80W, 119 LPW, White	13.6	56	PSCRMP7L
☐	CSHC	078531000868	Chain Hanging Assembly - (2) 14" Chains and V-Hooks	0.2	N/A	N/A

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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

Gray Shading = Service Program Limit of 150 Luminaries QS10

ORDERING GUIDE

Example: MPS4–40ML–CW–EDU

MPS – – –

Model	Size [1]	CRI
MPS MultiPurpose Linear	**2** 2'	**Blank** >80
	4 4'	**9** 90
	8 8'	

Color Temp	
30	3000K
35	3500K
40	4000K
50	5000K
2765T	2700K–6500K SpectraSync™ Tunable White [2]

Nominal Lumens	
XW	4' (2600), 8' (5200)
VW	2'(1600), 4'(3300), 8' (6600)
MW	2'(2200), 4'(3600), 8' (7200)
LW	2'(2400), 4'(4000), 8' (7900)
ML	2'(3400), 4'(4500), 8' (8900)
HL	2'(3700), 4'(5800), 8' (11,500)
VL	2' (4400), 4' (6800), 8' (13,500)
XL	2' (5400), 4' (7,800), 8' (15,500)
UL	2'(6200), 4'(10,000), 8'(20,000)

Lens	
C	Curve, Frosted Acrylic
F	Flat, Frosted Acrylic
NL	No Lens
CP	Curve, Frosted Polycarbonate

Distribution	
N	Narrow Distribution [3]
W	Wide Distribution

Driver [4]	
ED	0-10V Dimming
ED1	0-10V 1% Dimming
EDD	0-10V Dim-to-Off
ESD	Step Dimming [5, 9]
LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [5, 6]
DALIP	Powered by DALI [5]

–

Voltage	
U	120V-277V
347	347V (ED, ED1 only)

–

Options	
ELL14	10W Emergency Battery Pack (CEC Title 20 Compliant) Installed [5, 7, 8]
ELL14H2	9W Emergency Battery Pack (CEC Title 20 Compliant) Installed, 2-Hour Run Time [5, 7, 8, 10]
DTS	Dimming Bypass Module [5, 11]
MPSCE	Injection Molded ABS Material Curve Endcap [12]
MPSCE-MB	Injection Molded ABS Material Curve Endcap, Matte Black [13]
MPSFE	Injection Molded ABS Material Flat Endcap [12]
MPSFE-MB	Injection Molded ABS Material Flat Endcap, Matte Black [13]
MB	Matte Black
SLV	Silver
PAF	Painted After Fabrication
MST	MASTER fixture that controls one or more SATELLITE fixtures in a continuous row application [14, 15, 16, 17, 18, 19, 20]
SAT	SATELLITE fixture controlled by MASTER fixture in a continuous row application [15, 16, 17, 18, 19, 20]
INT	Intermediate (provides ends with wiring access for continuous row mounting) [19, 20, 21]
EOR	End of Row (provides end wiring access for continuous row mounting) [19, 20, 21]
GLR	Fast Blow Fuse [5]

–

Control Options [12, 22, 23, 24]	
NX Lighting Controls	
Networked Wireless	
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [25, 26]
NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Networked Wired	
NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor [25, 26]
NXESM	NX Wired Dual RJ45 SmartPORTS & Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Independent Control	
NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy & Photocell Sensor [5, 27, 28, 29]
BTSL	Bluetooth Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [25, 26]
Other Lighting Controls	
Networked Wireless	
LVR	Lutron Vive Integral Fixture Control DFCSJ-OEM-RF (RF only) [5, 27, 28, 30]
LVS	Lutron Vive Integral Fixture Control DFCSJ-OEM-OCC (RF with daylight and occupancy sensing) [5, 27, 28, 30]
AWNR	Lutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) [5, 25, 28]
AWNS	Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing [5, 25, 28]
Independent Control	
ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 [5, 27, 28]
ZLS05	Occupancy & Daylight Sensor, Leviton ZLS05 [5, 25, 28]

Notes:

1 Refer to Row Mount Ordering Instructions for Continuous Row applications
2 Refer to SpectraSync and NX Availability table. Only available with ED driver and 80 CRI.
3 Only available with Curve, Frosted Acrylic lens option
4 Dimming curves may vary dependent upon lumen output and driver option chosen Separate dimming circuits are recommended if multiple driver options are chosen
5 Not available in 347V
6 Not available with 2ft: VW, MW, LW lumen packages, 4ft: XW, VL lumen packages or 8ft: MW, VL lumen packages
7 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
8 Not available with 2ft fixture. Not available with thru wire and XL or UL lumen package on 4ft and 8ft fixtures
9 Max ambient temperature, 25°C
10 Not available for use in Canada
11 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram. Cannot be combined with SpectraSync or Controls options in 2ft fixture
12 PAF option included when this option is chosen
13 Only available with MB or SLV finish options

Continuous Row Options

14 Not available with INT option
15 One MST fixture can control multiple SAT fixtures but a SAT fixture can only be controlled by one MST fixture
16 Only available with NX Networked, NX Wired and NX Wireless Controls, consult factory for applications
17 Not available with LUTH
18 Not available with DTS
19 All fixtures in a continuous row application must use the same driver type and voltage
20 Quick connect wiring harness included
21 Suspension support required at every fixture coupling, see Mounting Accessories Guide

All Controls

22 Control Options include injection molded ABS end cap
23 Dry location rated only
24 Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls

25 Only available with ED, ED1 or EDD driver options
26 Not available in 2ft when combined with SpectraSync

Other Lighting Controls Options

27 Only available with DALIP driver option
28 Not available with SpectraSync
29 Not available with 2ft: VW, MW and LW lumen packages or 4ft: XW lumen package
30 Vive is a trademark of Lutron Electronics Co., Inc.

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MPS

MULTIPURPOSE LINEAR

ORDERING GUIDE (CONTINUED)

Accessories	
☐ **S18**	18" Stem, Canopy
☐ **SS18**	18" Swivel Stem—45° Swivel
☐ **CM24SCF3-KIT**	24" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM48SCF3-KIT**	48" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM24NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-24"
☐ **CM48NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-48"
☐ **CSHC**	Chain Hanger Assembly
☐ **MPSZT**	Zip Tee Hanger - 1 ½" Spacer on T-Bar Ceiling
☐ **MPSTH**	Slide Tong Hanger
☐ **MPSCRK-C**	Continuous Row Kit, Curve
☐ **MPSCRK-F**	Continuous Row Kit, Flat
☐ **MPSWG2**	2' Wire Guard
☐ **MPSWG4**	4' Wire Guard[1]
☐ **MPSCE**	Injection Molded ABS Material Curve Endcap
☐ **MPSCE-MB**	Injection Molded ABS Material Curve Endcap, Matte Black
☐ **MPSFE**	Injection Molded ABS Material Flat Endcap
☐ **MPSFE-MB**	Injection Molded ABS Material Flat Endcap, Matte Black
☐ **REFL-MPS4 STL SLD W16**	4' Symmetric Reflector Solid[1]
☐ **REFL-MPS4 STL SLTD W16**	4' Symmetric Reflector Slotted[1]
☐ **REFL-MPS4 STL SLD ASYMW16**	4' Asymmetric Reflector Solid[1]
☐ **CBL-HB-120-6Y-PAD**	10ft Adjustable 10' aircraft cable Y hanger paddle ends (1 pair, must be used in conjunction with MPSTH accessory.)

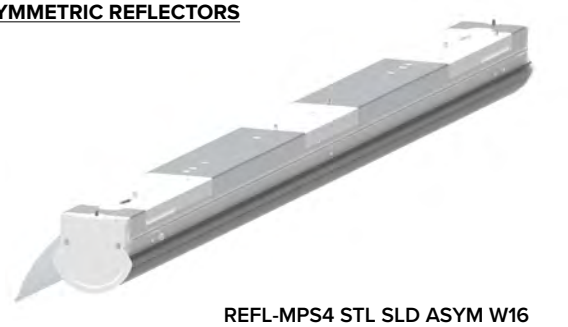
Notes:
1 Two Required for 8' fixture

SYMMETRIC REFLECTORS



REFL-MPS4 STL SLD W16
4' Symmetric Reflector Solid

ASYMMETRIC REFLECTORS



REFL-MPS4 STL SLD ASYM W16
4" Asymmetric Reflector Solid

CONTINUOUS ROW MOUNT EXAMPLE GUIDE					
Continuous Row Length	MPS4	MPS8	MPSCRK-*	CM**SCF*-KIT	CM**NF-KIT
12' — Option 1	1	1	1	1	1
12' — Option 2	3	0	2	1	1
16' — Option 1	0	2	1	1	1
16' — Option 2	2	1	2	1	2
32' — Option 1	0	4	3	2	1
32' — Option 2	2	3	4	2	1

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS

STANDARD EFFICACY PERFORMANCE TABLE — 2'						
FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS2-VW	3500K	CURVE	WIDE	1560	10.4	150
			NARROW	1544	10.4	149
		FLAT	WIDE	1513	10.4	146
		NO LENS		1669	10.4	161
	4000K	CURVE	WIDE	1587	10.4	153
			NARROW	1571	10.4	151
		FLAT	WIDE	1539	10.4	148
		NO LENS		1698	10.4	163
MPS2-MW	3500K	CURVE	WIDE	2069	13.6	153
			NARROW	2048	13.6	151
		FLAT	WIDE	2007	13.6	148
		NO LENS		2214	13.6	163
	4000K	CURVE	WIDE	2104	13.6	155
			NARROW	2083	13.6	153
		FLAT	WIDE	2041	13.6	150
		NO LENS		2251	13.6	166
MPS2-LW	3500K	CURVE	WIDE	2639	17.2	153
			NARROW	2613	17.2	152
		NO LENS	WIDE	2560	17.2	149
				2824	17.2	164
	4000K	CURVE	WIDE	2683	17.2	156
			NARROW	2656	17.2	154
		FLAT	WIDE	2603	17.2	151
		NO LENS		2871	17.2	167
MPS2-ML	3500K	CURVE	WIDE	3262	21.5	152
			NARROW	3229	21.5	150
		FLAT	WIDE	3164	21.5	147
		NO LENS		3490	21.5	162
	4000K	CURVE	WIDE	3317	21.5	155
			NARROW	3284	21.5	153
		FLAT	WIDE	3217	21.5	150
		NO LENS		3549	21.5	165
MPS2-HL	3500K	CURVE	WIDE	3617	24.1	150
			NARROW	3581	24.1	149
		FLAT	WIDE	3508	24.1	146
		NO LENS		3870	24.1	161
	4000K	CURVE	WIDE	3678	24.1	153
			NARROW	3641	24.1	151
		FLAT	WIDE	3568	24.1	148
		NO LENS		3935	24.1	163
MPS2-VL	3500K	CURVE	WIDE	4433	28.1	158
			NARROW	4389	28.1	156
		FLAT	WIDE	4300	28.1	153
		NO LENS		4743	28.1	169
	4000K	CURVE	WIDE	4508	28.1	160
			NARROW	4463	28.1	159
		FLAT	WIDE	4373	28.1	156
		NO LENS		4824	28.1	172
MPS2-XL	3500K	CURVE	WIDE	5409	34.9	155
			NARROW	5355	34.9	153
		FLAT	WIDE	5247	34.9	150
		NO LENS		5788	34.9	166
	4000K	CURVE	WIDE	5500	34.9	158
			NARROW	5445	34.9	156
		FLAT	WIDE	5335	34.9	153
		NO LENS		5885	34.9	169
MPS2-UL	3500K	CURVE	WIDE	6202	40.6	153
			NARROW	6140	40.6	151
		FLAT	WIDE	6016	40.6	148
		NO LENS		6636	40.6	163
	4000K	CURVE	WIDE	6307	40.6	153
			NARROW	6244	40.6	154
		FLAT	WIDE	6118	40.6	151
		NO LENS		6748	40.6	166

STANDARD EFFICACY PERFORMANCE TABLE — 4'						
FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS4-XW	3500K	CURVE	WIDE	2560	16.2	158
			NARROW	2534	16.2	156
		FLAT	WIDE	2483	16.2	153
		NO LENS		2739	16.2	169
	4000K	CURVE	WIDE	2603	16.2	161
			NARROW	2577	16.2	159
		FLAT	WIDE	2525	16.2	156
		NO LENS		2785	16.2	172
MPS4-VW	3500K	CURVE	WIDE	3271	20.5	160
			NARROW	3238	20.5	158
		FLAT	WIDE	3173	20.5	155
		NO LENS		3500	20.5	171
	4000K	CURVE	WIDE	3326	20.5	162
			NARROW	3293	20.5	161
		FLAT	WIDE	3226	20.5	157
		NO LENS		3559	20.5	174
MPS4-MW	3500K	CURVE	WIDE	3659	23.0	159
			NARROW	3622	23.0	157
		FLAT	WIDE	3549	23.0	154
		NO LENS		3915	23.0	170
	4000K	CURVE	WIDE	3721	23.0	162
			NARROW	3684	23.0	160
		FLAT	WIDE	3609	23.0	157
		NO LENS		3981	23.0	173
MPS4-LW	3500K	CURVE	WIDE	4270	26.9	159
			NARROW	4227	26.9	157
		FLAT	WIDE	4142	26.9	154
		NO LENS		4569	26.9	170
	4000K	CURVE	WIDE	4342	26.9	161
			NARROW	4299	26.9	160
		FLAT	WIDE	4212	26.9	157
		NO LENS		4646	26.9	173
MPS4-ML	3500K	CURVE	WIDE	4941	31.2	158
			NARROW	4892	31.2	157
		FLAT	WIDE	4793	31.2	154
		NO LENS		5287	31.2	169
	4000K	CURVE	WIDE	5025	31.2	161
			NARROW	4975	31.2	159
		FLAT	WIDE	4874	31.2	156
		NO LENS		5377	31.2	172
MPS4-HL	3500K	CURVE	WIDE	5918	37.6	157
			NARROW	5859	37.6	156
		FLAT	WIDE	5740	37.6	153
		NO LENS		6332	37.6	168
	4000K	CURVE	WIDE	6018	37.6	160
			NARROW	5958	37.6	158
		FLAT	WIDE	5837	37.6	155
		NO LENS		6439	37.6	171
MPS4-VL	3500K	CURVE	WIDE	7128	46.5	153
			NARROW	7057	46.5	152
		FLAT	WIDE	6914	46.5	149
		NO LENS		7627	46.5	164
	4000K	CURVE	WIDE	7249	46.5	156
			NARROW	7177	46.5	154
		FLAT	WIDE	7032	46.5	151
		NO LENS		7756	46.5	167
MPS4-XL	3500K	CURVE	WIDE	8715	55.1	158
			NARROW	8628	55.1	157
		FLAT	WIDE	8454	55.1	153
		NO LENS		9325	55.1	169
	4000K	CURVE	WIDE	8863	55.1	161
			NARROW	8774	55.1	159
		FLAT	WIDE	8597	55.1	156
		NO LENS		9483	55.1	172
MPS4-UL	3500K	CURVE	WIDE	10168	65.6	155
			NARROW	10066	65.6	153
		FLAT	WIDE	9863	65.6	150
		NO LENS		10880	65.6	166
	4000K	CURVE	WIDE	10340	65.6	158
			NARROW	10237	65.6	156
		FLAT	WIDE	10030	65.6	153
		NO LENS		11064	65.6	169

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MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS (CONTINUED)

STANDARD EFFICACY PERFORMANCE TABLE — 8'						
FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS8-XW	3500K	CURVE	WIDE	5120	31.2	164
			NARROW	5069	31.2	162
		FLAT	WIDE	4966	31.2	159
		NO LENS		5478	31.2	176
	4000K	CURVE	WIDE	5207	31.2	167
			NARROW	5155	31.2	165
		FLAT	WIDE	5051	31.2	162
		NO LENS		5571	31.2	179
MPS8-VW	3500K	CURVE	WIDE	6542	39.7	165
			NARROW	6477	39.7	163
		FLAT	WIDE	6346	39.7	160
		NO LENS		7000	39.7	176
	4000K	CURVE	WIDE	6653	39.7	168
			NARROW	6586	39.7	166
		FLAT	WIDE	6453	39.7	163
		NO LENS		7119	39.7	179
MPS8-MW	3500K	CURVE	WIDE	7318	44.7	164
			NARROW	7245	44.7	162
		FLAT	WIDE	7098	44.7	159
		NO LENS		7830	44.7	175
	4000K	CURVE	WIDE	7442	44.7	166
			NARROW	7368	44.7	165
		FLAT	WIDE	7219	44.7	161
		NO LENS		7963	44.7	178
MPS8-LW	3500K	CURVE	WIDE	8539	52.8	162
			NARROW	8454	52.8	160
		FLAT	WIDE	8283	52.8	157
		NO LENS		9137	52.8	173
	4000K	CURVE	WIDE	8684	52.8	164
			NARROW	8597	52.8	163
		FLAT	WIDE	8423	52.8	160
		NO LENS		9292	52.8	176
MPS8-ML	3500K	CURVE	WIDE	9882	61.5	161
			NARROW	9783	61.5	159
		FLAT	WIDE	9586	61.5	156
		NO LENS		10574	61.5	172
	4000K	CURVE	WIDE	10049	61.5	163
			NARROW	9949	61.5	162
		FLAT	WIDE	9748	61.5	158
		NO LENS		10752	61.5	175
MPS8-HL	3500K	CURVE	WIDE	11835	75.0	158
			NARROW	11717	75.0	156
		FLAT	WIDE	11480	75.0	153
		NO LENS		12663	75.0	169
	4000K	CURVE	WIDE	12036	75.0	160
			NARROW	11916	75.0	159
		FLAT	WIDE	11675	75.0	156
		NO LENS		12879	75.0	172
MPS8-VL	3500K	CURVE	WIDE	14257	93.1	153
			NARROW	14114	93.1	152
		FLAT	WIDE	13829	93.1	149
		NO LENS		15255	93.1	164
	4000K	CURVE	WIDE	14498	93.1	156
			NARROW	14353	93.1	154
		FLAT	WIDE	14063	93.1	151
		NO LENS		15513	93.1	167
MPS8-XL	3500K	CURVE	WIDE	17431	110.8	157
			NARROW	17257	110.8	156
		FLAT	WIDE	16908	110.8	153
		NO LENS		18651	110.8	168
	4000K	CURVE	WIDE	17726	110.8	160
			NARROW	17549	110.8	158
		FLAT	WIDE	17194	110.8	155
		NO LENS		18967	110.8	171
MPS8-UL	3500K	CURVE	WIDE	20336	131.3	155
			NARROW	20133	131.3	153
		FLAT	WIDE	19726	131.3	150
		NO LENS		21760	131.3	166
	4000K	CURVE	WIDE	20680	131.3	158
			NARROW	20473	131.3	156
		FLAT	WIDE	20060	131.3	153
		NO LENS		22128	131.3	169

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AMBIENT TEMPERATURE RATINGS

TEMPERATURE TABLE (C°) — 2', 4' & 8'						
80 CRI, Ceiling/Surface Mount						
Size	Lumen Package		Without Battery		With ELL14	With ELL14ST
			ED/ED1/EDD	ED347	ED/ED1/EDD	ED/ED1/EDD
2'	VW	1600	35	35	--	--
	MW	2200	35	35	--	--
	LW	2400	35	35	--	--
	ML	3400	35	35	--	--
	HL	3700	35	35	--	--
	VL	4400	35	35	--	--
	XL	5400	35	35	--	--
	UL	6200	35	35	--	--
4'	XW	2600	50	50	35	50
	VW	3300	50	50	35	50
	MW	3600	50	50	35	50
	LW	4000	50	50	35	50
	ML	4500	50	50	35	50
	HL	5800	45	45	35	40
	VL	6800	45	45	35	40
	XL	7800	45	45	35	40
	UL	10000	45	45	35	40
8'	XW	5200	50	50	35	50
	VW	6600	50	50	35	50
	MW	7200	50	50	35	50
	LW	7900	50	50	35	50
	ML	8900	50	50	35	50
	HL	11500	45	45	35	40
	VL	13500	45	45	35	40
	XL	15500	45	45	35	40
	UL	20000	45	45	35	40

Minimum ambient temperature is -30°C without battery and 0°C with battery

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.93	0.86	0.84
TM-21-22	25C/77F	0.93	0.86	0.84

* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

NX LIGHTING CONTROLS

NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓[1]		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓[2]		NXC-WIZ20
	BTSL	Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓		BTSMP-LMI

1 Requires NXBTC, order separately.

2 Requires use of NX Connect App available for download from Apple app store.

DEFAULT SETTINGS

NX Wirelss & Wired	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	Passcode Factory Passcode: HubbN3T!	Enabled

NX Independent - NX Connect (NXCS)	Settling/Dwell Time	5 sec
	Hold Time	10 min
	Group Hold Time	10 min
	Grace Time	-
	Strategy	Auto ON/OFF
	Occupancy Sensitivity	5 (highest)
	Occupancy Indicator	ON
	Partial Off/Standby	0%
	Background Level	50%
	Task Level	100%
	Daylight Harvesting	-
	Low Ambient Output	250%
	High Ambient Output	OFF

NX Independent - BTSL	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled

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NX LIGHTING CONTROLS (CONTINUED)

PRODUCT IMAGES



NXWSM
NXESM



NXCS



BTSL

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android

Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

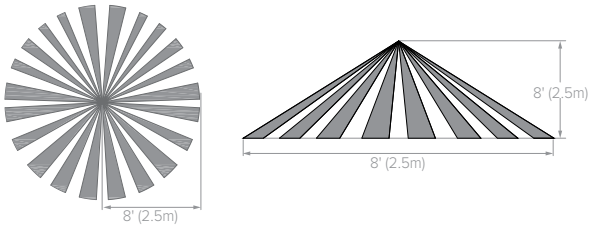
Apple iOS

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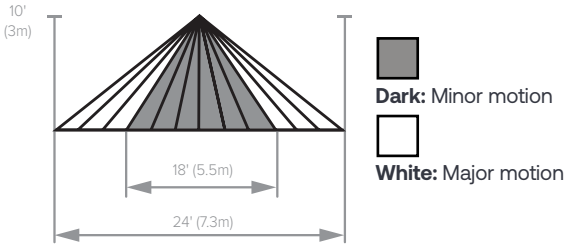
NX LIGHTING CONTROLS (CONTINUED)

COVERAGE PATTERNS

NXWSM/NXESM (NXSMP2-SMI SENSOR)

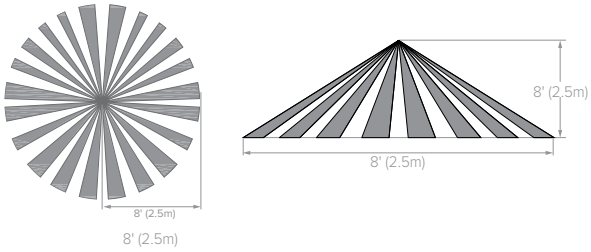


NXCS (NXC-WIZ20 SENSOR)



PIR sensor coverage tested as defined in NEMA WD7-2011

BTSL



OTHER LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.[1]	–	✓	–	✓	✓	✓	✓	✓[3]		SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs.[2]	✓	✓	✓	–	–	–	✓	–		DFCSJ-OEM-RF
	LVS		✓	✓	✓	✓	✓	–	✓	–		DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.[3]	✓	✓	–	–	–	✓	✓	–		A-WN-D01-RF-WH
	AWNS		✓	✓	✓	✓	✓	✓	✓	–		A-WN-D01-OCC-WH

1 Philips MasterConnect App required for field configuration.
2 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.
3 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION:

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CATALOG #:

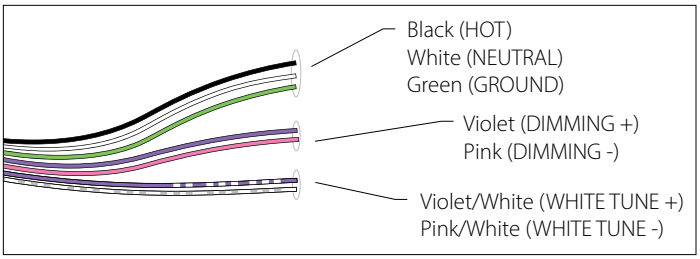
SPECTRASYNC™ COLOR TUNING TECHNOLOGY

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White

Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

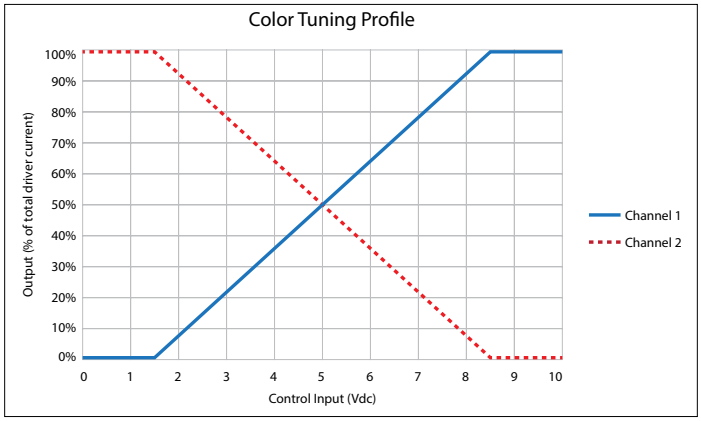


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

SPECTRASYNC™ AND NX AVAILABILITY TABLE

		Only With 80 CRI No Battery Pack			Only With 80 CRI With Battery Pack		
Size	Lumen package	CTC	NX	CTC+NX	CTC	NX	CTC+NX
2ft	VW	Y	Y	N	—	—	—
	MW	Y	Y	N	—	—	—
	LW	Y	Y	N	—	—	—
	ML	N	Y	N	—	—	—
	HL, VL, XL, UL	N	Y	N	—	—	—
4ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	Y	Y	Y	Y	Y	Y
	LW	Y	Y	Y	Y	Y	Y
	ML	Y	Y	Y	Y	Y	Y
	HL	Y	Y	Y	Y	Y	Y
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N
8ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	N	Y	N	N	Y	N
	LW	N	Y	N	N	Y	N
	ML	N	Y	N	N	Y	N
	HL	N	Y	N	N	Y	N
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N

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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

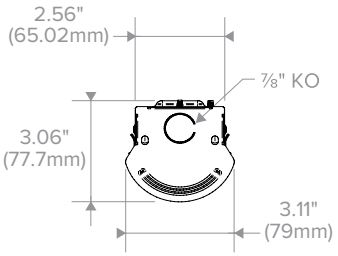
CATALOG #:

MPS

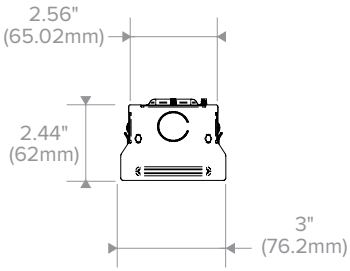
MULTIPURPOSE LINEAR

DIMENSIONS

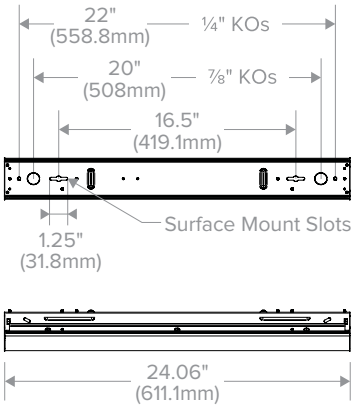
MPS END View - Curve Lens



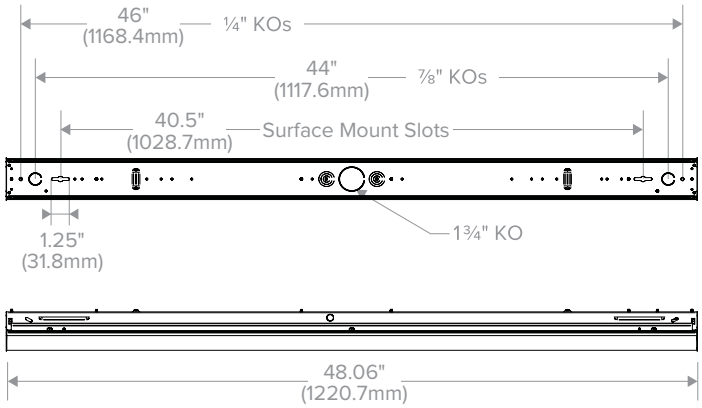
MPS END View - FLAT Lens



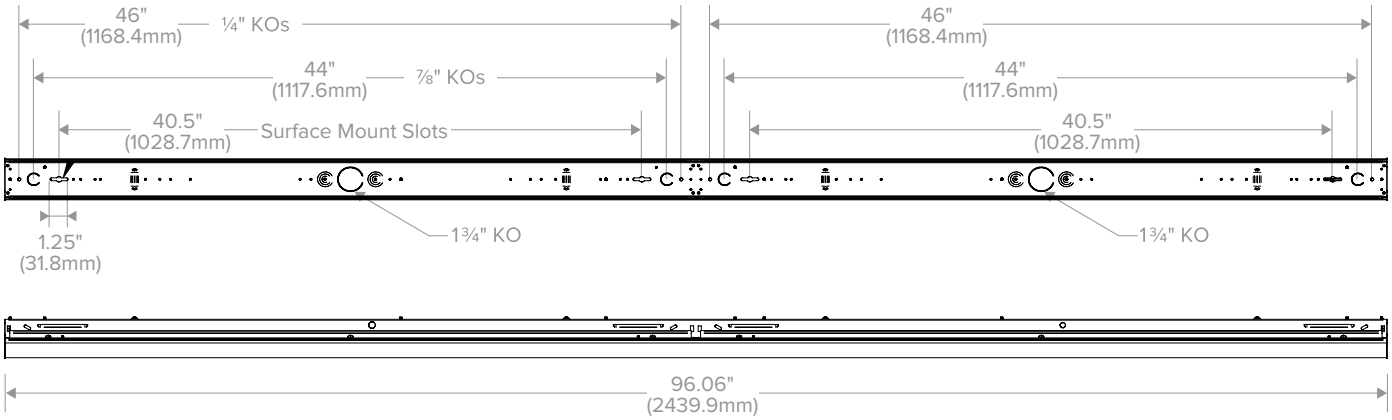
MPS 2' Dimensions



MPS 4' Dimensions



MPS 8' Dimensions



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Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

PHOTOMETRY

MPS4-40ML-CW-EDU

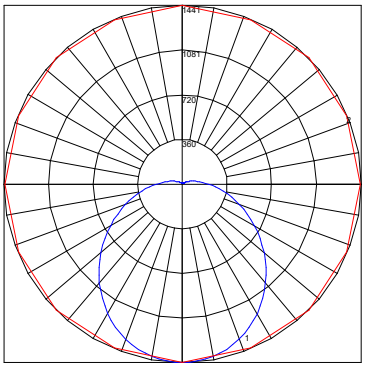
LUMINAIRE DATA

Test No.	**23.0113**
Description	**4' Multi-Purpose Strip-Light w/ Diffuse, Curved Acrylic Lens**
Delivered Lumens	**5025**
Watts	**31.2**
Efficacy	**161**
Mounting	**Surface**
Spacing Criterion	**0° = 1.20 90° = 1.32**

ZONAL LUMEN SUMMARY

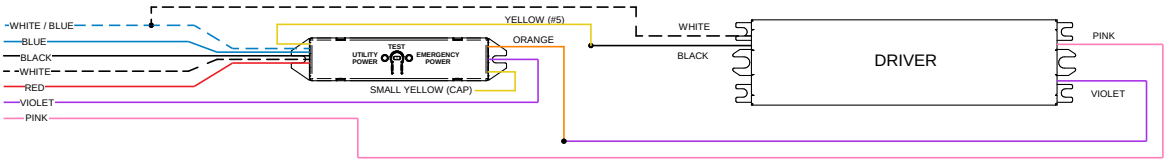
Zone	Lumens	% Luminaire
0–30	1145.29	22.8
0–40	1872.04	37.3
0–60	3334.68	66.4
0–90	4648.46	92.5
0–180	5024.73	100.0

POLAR GRAPH



Maximum Candela = 1440.943 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FW01

FEATURES

- Uniform end-to-end lens brightness with optional continuous row mounting that gives an uninterrupted ribbon of light
- Superior color consistency within a 3-step MacAdam ellipse and greater than 80 CRI
- Available in 2', 4' or 8' lengths
- Optional 90 or 120 min integral emergency battery pack (CEC Title 20 Compliant)
- Curved and flat acrylic and curved polycarbonate lens options or a no lens (NL) version. Wide and Narrow distributions available
- Modular replaceable LED boards and driver accessible for future maintenance or upgrades
- Surface mount, wall mount or suspended mounting





NXWSM, NXESM



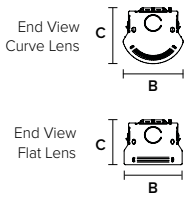
NXCS

SERVICE PROGRAMS

STOCK QS10

CONTROLS TECHNOLOGY

SpectraSync Color Tuning Technology | NX WIRELESS | NX WIRED | NX CONNECT | OCCUPANCY SENSING | DAYLIGHT HARVESTING



Typical Dimensions and Weights					
Sizes	(B) Width Inches (mm)		(C) Height Inches (mm)		Weight lbs (kg)
	Curve Lens	Flat Lens	Curve Lens	Flat Lens	
2'	3.11 (79)	3.00 (76)	3.06 (78)	2.44 (62)	4.0 (1.8)
4'					6.0 (2.7)
8'					12.0 (5.4)

SPECIFICATIONS

CONSTRUCTION

- Housing, wireway, and ends are formed from code-gauge steel
- Housing components act as heat sink for LED heat dissipation
- White painted parts are treated with a five stage phosphate bonding process and finished with high reflectance baked enamel

OPTICS

- Available with or without frosted lens

INSTALLATION

- Knockouts are provided for electrical access and mounting
- WARNING – Removing the lens during installation exposes the LEDs and due to their fragility they could be damaged. Handle the LED reflector plate with care, do not rest the LED reflector plate upside down directly on its LEDs as this could result in damage. Damage to LEDs from mishandling during installation will not be covered under warranty

ELECTRICAL

- Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance
- Driver options include fixed output for on/off function, step dimming (high/low/off), or continuous 0–10V dimming
- Superior drivers and long-life LEDs provide quality illumination for prolonged service life

ELECTRICAL (CONTINUED)

- Drivers < 10% THD at 120V, power factor > 0.95
- Lumen packages up to 10,000 lumens rated to 40°C (104°F) max ambient. Lumen packages up to 5,000 lumens rated to 50°C (122°F) max ambient. Minimum ambient temperature -20°C (-4°F)

CONTROLS

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices
- SpectraSync (TM) Color Tuning Technology offers a tunable white solution and integrates seamlessly into a variety of control systems

CERTIFICATIONS

- All luminaires are built to UL 1598 standards, and bear appropriate cCSAus labels
- Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- DLC® (DesignLights Consortium) Qualified, Please refer to the DLC website for specific product qualifications at www.designlights.org
- Adheres to LM79, LM80, and TM21 industry standards
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

- 5 year warranty

STOCK GUIDE

STOCK

	Catalog No.	UPC	Description	Weight (lbs)	Pallet Qty	DLC QPL
☐	MPS4-35ML-CW-EDU	078531138714	4', 80 CRI, 3500K, 4556 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 114 LPW, White	6.1	56	PKQ78077
☐	MPS4-35ML-FW-EDU	603134946413	4', 80 CRI, 3500K, 4230 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 134 LPW, White	6.1	56	P9P5CV62
☐	MPS4-40ML-CW-EDU	078531138721	4', 80 CRI, 4000K, 4614 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 115 LPW, White	6.1	56	P04CB2S2
☐	MPS4-40ML-FW-EDU	603134946420	4', 80 CRI, 3500K, 4277 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 135 LPW, White	6.1	56	PLLGKQUG
☐	MPS8-50ML-CW-EDU	078531138752	8', 80 CRI, 5000K, 9532 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 80W, 119 LPW, White	13.6	56	PSCRMP7L
☐	CSHC	078531000868	Chain Hanging Assembly - (2) 14" Chains and V-Hooks	0.2	N/A	N/A

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MPS

MULTIPURPOSE LINEAR

Gray Shading = Service Program Limit of 150 Luminaries QS10

ORDERING GUIDE

Example: MPS4–40ML–CW–EDU

MPS –

Model	Size [1]	CRI
MPS MultiPurpose Linear	**2** 2'	**Blank** >80
	4 4'	**9** 90
	8 8'	

–

Color Temp	Nominal Lumens
30 3000K	**XW** 4' (2600), 8' (5200)
35 3500K	**VW** 2'(1600), 4'(3300), 8' (6600)
40 4000K	**MW** 2'(2200), 4'(3600), 8' (7200)
50 5000K	**LW** 2'(2400), 4'(4000), 8' (7900)
2765T 2700K–6500K SpectraSync™ Tunable White [2]	**ML** 2'(3400), 4'(4500), 8' (8900)
	HL 2'(3700), 4'(5800), 8' (11,500)
	VL 2' (4400), 4' (6800), 8' (13,500)
	XL 2' (5400), 4' (7,800), 8' (15,500)
	UL 2'(6200), 4'(10,000), 8'(20,000)

–

Lens	Distribution
C Curve, Frosted Acrylic	**N** Narrow Distribution [3]
F Flat, Frosted Acrylic	**W** Wide Distribution
NL No Lens	
CP Curve, Frosted Polycarbonate	

–

Driver [4]	
ED	0-10V Dimming
ED1	0-10V 1% Dimming
EDD	0-10V Dim-to-Off
ESD	Step Dimming [5, 9]
LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [5, 6]
DALIP	Powered by DALI [5]

–

Voltage	
U	120V-277V
347	347V (ED, ED1 only)

–

Options	
ELL14	10W Emergency Battery Pack (CEC Title 20 Compliant) Installed [5, 7, 8]
ELL14H2	9W Emergency Battery Pack (CEC Title 20 Compliant) Installed, 2-Hour Run Time [5, 7, 8, 10]
DTS	Dimming Bypass Module [5, 11]
MPSCE	Injection Molded ABS Material Curve Endcap [12]
MPSCE-MB	Injection Molded ABS Material Curve Endcap, Matte Black [13]
MPSFE	Injection Molded ABS Material Flat Endcap [12]
MPSFE-MB	Injection Molded ABS Material Flat Endcap, Matte Black [13]
MB	Matte Black
SLV	Silver
PAF	Painted After Fabrication
MST	MASTER fixture that controls one or more SATELLITE fixtures in a continuous row application [14, 15, 16, 17, 18, 19, 20]
SAT	SATELLITE fixture controlled by MASTER fixture in a continuous row application [15, 16, 17, 18, 19, 20]
INT	Intermediate (provides ends with wiring access for continuous row mounting) [19, 20, 21]
EOR	End of Row (provides end wiring access for continuous row mounting) [19, 20, 21]
GLR	Fast Blow Fuse [5]

Control Options [12, 22, 23, 24]	
NX Lighting Controls	
Networked Wireless	
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [25, 26]
NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Networked Wired	
NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor [25, 26]
NXESM	NX Wired Dual RJ45 SmartPORTS & Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Independent Control	
NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy & Photocell Sensor [5, 27, 28, 29]
BTSL	Bluetooth Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [25, 26]
Other Lighting Controls	
Networked Wireless	
LVR	Lutron Vive Integral Fixture Control DFCSJ-OEM-RF (RF only) [5, 27, 28, 30]
LVS	Lutron Vive Integral Fixture Control DFCSJ-OEM-OCC (RF with daylight and occupancy sensing) [5, 27, 28, 30]
AWNR	Lutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) [5, 25, 28]
AWNS	Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing [5, 25, 28]
Independent Control	
ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 [5, 27, 28]
ZLS05	Occupancy & Daylight Sensor, Leviton ZLS05 [5, 25, 28]

Notes:

1 Refer to Row Mount Ordering Instructions for Continuous Row applications
2 Refer to SpectraSync and NX Availability table. Only available with ED driver and 80 CRI.
3 Only available with Curve, Frosted Acrylic lens option
4 Dimming curves may vary dependent upon lumen output and driver option chosen Separate dimming circuits are recommended if multiple driver options are chosen
5 Not available in 347V
6 Not available with 2ft: VW, MW, LW lumen packages, 4ft: XW, VL lumen packages or 8ft: MW, VL lumen packages
7 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
8 Not available with 2ft fixture. Not available with thru wire and XL or UL lumen package on 4ft and 8ft fixtures
9 Max ambient temperature, 25°C
10 Not available for use in Canada
11 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram. Cannot be combined with SpectraSync or Controls options in 2ft fixture
12 PAF option included when this option is chosen
13 Only available with MB or SLV finish options

Continuous Row Options

14 Not available with INT option
15 One MST fixture can control multiple SAT fixtures but a SAT fixture can only be controlled by one MST fixture
16 Only available with NX Networked, NX Wired and NX Wireless Controls, consult factory for applications
17 Not available with LUTH
18 Not available with DTS
19 All fixtures in a continuous row application must use the same driver type and voltage
20 Quick connect wiring harness included
21 Suspension support required at every fixture coupling, see Mounting Accessories Guide

All Controls

22 Control Options include injection molded ABS end cap
23 Dry location rated only
24 Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls

25 Only available with ED, ED1 or EDD driver options
26 Not available in 2ft when combined with SpectraSync

Other Lighting Controls Options

27 Only available with DALIP driver option
28 Not available with SpectraSync
29 Not available with 2ft: VW, MW and LW lumen packages or 4ft: XW lumen package
30 Vive is a trademark of Lutron Electronics Co., Inc.

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MPS

MULTIPURPOSE LINEAR

ORDERING GUIDE (CONTINUED)

Accessories	
☐ **S18**	18" Stem, Canopy
☐ **SS18**	18" Swivel Stem—45° Swivel
☐ **CM24SCF3-KIT**	24" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM48SCF3-KIT**	48" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM24NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-24"
☐ **CM48NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-48"
☐ **CSHC**	Chain Hanger Assembly
☐ **MPSZT**	Zip Tee Hanger - 1½" Spacer on T-Bar Ceiling
☐ **MPSTH**	Slide Tong Hanger
☐ **MPSCRK-C**	Continuous Row Kit, Curve
☐ **MPSCRK-F**	Continuous Row Kit, Flat
☐ **MPSWG2**	2' Wire Guard
☐ **MPSWG4**	4' Wire Guard[1]
☐ **MPSCE**	Injection Molded ABS Material Curve Endcap
☐ **MPSCE-MB**	Injection Molded ABS Material Curve Endcap, Matte Black
☐ **MPSFE**	Injection Molded ABS Material Flat Endcap
☐ **MPSFE-MB**	Injection Molded ABS Material Flat Endcap, Matte Black
☐ **REFL-MPS4 STL SLD W16**	4' Symmetric Reflector Solid[1]
☐ **REFL-MPS4 STL SLTD W16**	4' Symmetric Reflector Slotted[1]
☐ **REFL-MPS4 STL SLD ASYMW16**	4' Asymmetric Reflector Solid[1]
☐ **CBL-HB-120-6Y-PAD**	10ft Adjustable 10' aircraft cable Y hanger paddle ends (1 pair, must be used in conjunction with MPSTH accessory.)

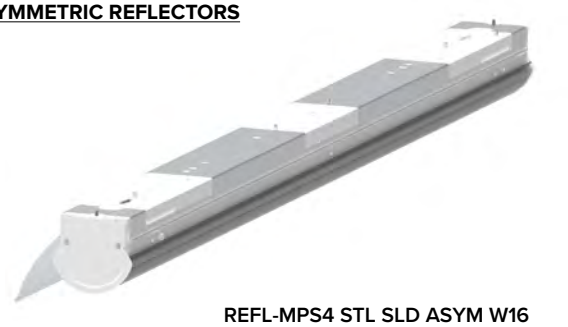
Notes:
1 Two Required for 8' fixture

SYMMETRIC REFLECTORS



REFL-MPS4 STL SLD W16
4' Symmetric Reflector Solid

ASYMMETRIC REFLECTORS



REFL-MPS4 STL SLD ASYM W16
4" Asymmetric Reflector Solid

CONTINUOUS ROW MOUNT EXAMPLE GUIDE					
Continuous Row Length	MPS4	MPS8	MPSCRK-*	CM**SCF*-KIT	CM**NF-KIT
12' — Option 1	1	1	1	1	1
12' — Option 2	3	0	2	1	1
16' — Option 1	0	2	1	1	1
16' — Option 2	2	1	2	1	2
32' — Option 1	0	4	3	2	1
32' — Option 2	2	3	4	2	1

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MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS

STANDARD EFFICACY PERFORMANCE TABLE — 2'

FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS2-VW	3500K	CURVE	WIDE	1560	10.4	150
			NARROW	1544	10.4	149
		FLAT	WIDE	1513	10.4	146
		NO LENS		1669	10.4	161
	4000K	CURVE	WIDE	1587	10.4	153
			NARROW	1571	10.4	151
		FLAT	WIDE	1539	10.4	148
		NO LENS		1698	10.4	163
MPS2-MW	3500K	CURVE	WIDE	2069	13.6	153
			NARROW	2048	13.6	151
		FLAT	WIDE	2007	13.6	148
		NO LENS		2214	13.6	163
	4000K	CURVE	WIDE	2104	13.6	155
			NARROW	2083	13.6	153
		FLAT	WIDE	2041	13.6	150
		NO LENS		2251	13.6	166
MPS2-LW	3500K	CURVE	WIDE	2639	17.2	153
			NARROW	2613	17.2	152
		NO LENS	WIDE	2560	17.2	149
				2824	17.2	164
	4000K	CURVE	WIDE	2683	17.2	156
			NARROW	2656	17.2	154
		FLAT	WIDE	2603	17.2	151
		NO LENS		2871	17.2	167
MPS2-ML	3500K	CURVE	WIDE	3262	21.5	152
			NARROW	3229	21.5	150
		FLAT	WIDE	3164	21.5	147
		NO LENS		3490	21.5	162
	4000K	CURVE	WIDE	3317	21.5	155
			NARROW	3284	21.5	153
		FLAT	WIDE	3217	21.5	150
		NO LENS		3549	21.5	165
MPS2-HL	3500K	CURVE	WIDE	3617	24.1	150
			NARROW	3581	24.1	149
		FLAT	WIDE	3508	24.1	146
		NO LENS		3870	24.1	161
	4000K	CURVE	WIDE	3678	24.1	153
			NARROW	3641	24.1	151
		FLAT	WIDE	3568	24.1	148
		NO LENS		3935	24.1	163
MPS2-VL	3500K	CURVE	WIDE	4433	28.1	158
			NARROW	4389	28.1	156
		FLAT	WIDE	4300	28.1	153
		NO LENS		4743	28.1	169
	4000K	CURVE	WIDE	4508	28.1	160
			NARROW	4463	28.1	159
		FLAT	WIDE	4373	28.1	156
		NO LENS		4824	28.1	172
MPS2-XL	3500K	CURVE	WIDE	5409	34.9	155
			NARROW	5355	34.9	153
		FLAT	WIDE	5247	34.9	150
		NO LENS		5788	34.9	166
	4000K	CURVE	WIDE	5500	34.9	158
			NARROW	5445	34.9	156
		FLAT	WIDE	5335	34.9	153
		NO LENS		5885	34.9	169
MPS2-UL	3500K	CURVE	WIDE	6202	40.6	153
			NARROW	6140	40.6	151
		FLAT	WIDE	6016	40.6	148
		NO LENS		6636	40.6	163
	4000K	CURVE	WIDE	6307	40.6	153
			NARROW	6244	40.6	154
		FLAT	WIDE	6118	40.6	151
		NO LENS		6748	40.6	166

STANDARD EFFICACY PERFORMANCE TABLE — 4'

FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS4-XW	3500K	CURVE	WIDE	2560	16.2	158
			NARROW	2534	16.2	156
		FLAT	WIDE	2483	16.2	153
		NO LENS		2739	16.2	169
	4000K	CURVE	WIDE	2603	16.2	161
			NARROW	2577	16.2	159
		FLAT	WIDE	2525	16.2	156
		NO LENS		2785	16.2	172
MPS4-VW	3500K	CURVE	WIDE	3271	20.5	160
			NARROW	3238	20.5	158
		FLAT	WIDE	3173	20.5	155
		NO LENS		3500	20.5	171
	4000K	CURVE	WIDE	3326	20.5	162
			NARROW	3293	20.5	161
		FLAT	WIDE	3226	20.5	157
		NO LENS		3559	20.5	174
MPS4-MW	3500K	CURVE	WIDE	3659	23.0	159
			NARROW	3622	23.0	157
		FLAT	WIDE	3549	23.0	154
		NO LENS		3915	23.0	170
	4000K	CURVE	WIDE	3721	23.0	162
			NARROW	3684	23.0	160
		FLAT	WIDE	3609	23.0	157
		NO LENS		3981	23.0	173
MPS4-LW	3500K	CURVE	WIDE	4270	26.9	159
			NARROW	4227	26.9	157
		FLAT	WIDE	4142	26.9	154
		NO LENS		4569	26.9	170
	4000K	CURVE	WIDE	4342	26.9	161
			NARROW	4299	26.9	160
		FLAT	WIDE	4212	26.9	157
		NO LENS		4646	26.9	173
MPS4-ML	3500K	CURVE	WIDE	4941	31.2	158
			NARROW	4892	31.2	157
		FLAT	WIDE	4793	31.2	154
		NO LENS		5287	31.2	169
	4000K	CURVE	WIDE	5025	31.2	161
			NARROW	4975	31.2	159
		FLAT	WIDE	4874	31.2	156
		NO LENS		5377	31.2	172
MPS4-HL	3500K	CURVE	WIDE	5918	37.6	157
			NARROW	5859	37.6	156
		FLAT	WIDE	5740	37.6	153
		NO LENS		6332	37.6	168
	4000K	CURVE	WIDE	6018	37.6	160
			NARROW	5958	37.6	158
		FLAT	WIDE	5837	37.6	155
		NO LENS		6439	37.6	171
MPS4-VL	3500K	CURVE	WIDE	7128	46.5	153
			NARROW	7057	46.5	152
		FLAT	WIDE	6914	46.5	149
		NO LENS		7627	46.5	164
	4000K	CURVE	WIDE	7249	46.5	156
			NARROW	7177	46.5	154
		FLAT	WIDE	7032	46.5	151
		NO LENS		7756	46.5	167
MPS4-XL	3500K	CURVE	WIDE	8715	55.1	158
			NARROW	8628	55.1	157
		FLAT	WIDE	8454	55.1	153
		NO LENS		9325	55.1	169
	4000K	CURVE	WIDE	8863	55.1	161
			NARROW	8774	55.1	159
		FLAT	WIDE	8597	55.1	156
		NO LENS		9483	55.1	172
MPS4-UL	3500K	CURVE	WIDE	10168	65.6	155
			NARROW	10066	65.6	153
		FLAT	WIDE	9863	65.6	150
		NO LENS		10880	65.6	166
	4000K	CURVE	WIDE	10340	65.6	158
			NARROW	10237	65.6	156
		FLAT	WIDE	10030	65.6	153
		NO LENS		11064	65.6	169

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DELIVERED LUMENS (CONTINUED)

STANDARD EFFICACY PERFORMANCE TABLE — 8'						
FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS8-XW	3500K	CURVE	WIDE	5120	31.2	164
			NARROW	5069	31.2	162
		FLAT	WIDE	4966	31.2	159
		NO LENS		5478	31.2	176
	4000K	CURVE	WIDE	5207	31.2	167
			NARROW	5155	31.2	165
		FLAT	WIDE	5051	31.2	162
		NO LENS		5571	31.2	179
MPS8-VW	3500K	CURVE	WIDE	6542	39.7	165
			NARROW	6477	39.7	163
		FLAT	WIDE	6346	39.7	160
		NO LENS		7000	39.7	176
	4000K	CURVE	WIDE	6653	39.7	168
			NARROW	6586	39.7	166
		FLAT	WIDE	6453	39.7	163
		NO LENS		7119	39.7	179
MPS8-MW	3500K	CURVE	WIDE	7318	44.7	164
			NARROW	7245	44.7	162
		FLAT	WIDE	7098	44.7	159
		NO LENS		7830	44.7	175
	4000K	CURVE	WIDE	7442	44.7	166
			NARROW	7368	44.7	165
		FLAT	WIDE	7219	44.7	161
		NO LENS		7963	44.7	178
MPS8-LW	3500K	CURVE	WIDE	8539	52.8	162
			NARROW	8454	52.8	160
		FLAT	WIDE	8283	52.8	157
		NO LENS		9137	52.8	173
	4000K	CURVE	WIDE	8684	52.8	164
			NARROW	8597	52.8	163
		FLAT	WIDE	8423	52.8	160
		NO LENS		9292	52.8	176
MPS8-ML	3500K	CURVE	WIDE	9882	61.5	161
			NARROW	9783	61.5	159
		FLAT	WIDE	9586	61.5	156
		NO LENS		10574	61.5	172
	4000K	CURVE	WIDE	10049	61.5	163
			NARROW	9949	61.5	162
		FLAT	WIDE	9748	61.5	158
		NO LENS		10752	61.5	175
MPS8-HL	3500K	CURVE	WIDE	11835	75.0	158
			NARROW	11717	75.0	156
		FLAT	WIDE	11480	75.0	153
		NO LENS		12663	75.0	169
	4000K	CURVE	WIDE	12036	75.0	160
			NARROW	11916	75.0	159
		FLAT	WIDE	11675	75.0	156
		NO LENS		12879	75.0	172
MPS8-VL	3500K	CURVE	WIDE	14257	93.1	153
			NARROW	14114	93.1	152
		FLAT	WIDE	13829	93.1	149
		NO LENS		15255	93.1	164
	4000K	CURVE	WIDE	14498	93.1	156
			NARROW	14353	93.1	154
		FLAT	WIDE	14063	93.1	151
		NO LENS		15513	93.1	167
MPS8-XL	3500K	CURVE	WIDE	17431	110.8	157
			NARROW	17257	110.8	156
		FLAT	WIDE	16908	110.8	153
		NO LENS		18651	110.8	168
	4000K	CURVE	WIDE	17726	110.8	160
			NARROW	17549	110.8	158
		FLAT	WIDE	17194	110.8	155
		NO LENS		18967	110.8	171
MPS8-UL	3500K	CURVE	WIDE	20336	131.3	155
			NARROW	20133	131.3	153
		FLAT	WIDE	19726	131.3	150
		NO LENS		21760	131.3	166
	4000K	CURVE	WIDE	20680	131.3	158
			NARROW	20473	131.3	156
		FLAT	WIDE	20060	131.3	153
		NO LENS		22128	131.3	169

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AMBIENT TEMPERATURE RATINGS

TEMPERATURE TABLE (C°) — 2', 4' & 8'						
80 CRI, Ceiling/Surface Mount						
Size	Lumen Package		Without Battery		With ELL14	With ELL14ST
			ED/ED1/EDD	ED347	ED/ED1/EDD	ED/ED1/EDD
2'	VW	1600	35	35	--	--
	MW	2200	35	35	--	--
	LW	2400	35	35	--	--
	ML	3400	35	35	--	--
	HL	3700	35	35	--	--
	VL	4400	35	35	--	--
	XL	5400	35	35	--	--
	UL	6200	35	35	--	--
4'	XW	2600	50	50	35	50
	VW	3300	50	50	35	50
	MW	3600	50	50	35	50
	LW	4000	50	50	35	50
	ML	4500	50	50	35	50
	HL	5800	45	45	35	40
	VL	6800	45	45	35	40
	XL	7800	45	45	35	40
	UL	10000	45	45	35	40
8'	XW	5200	50	50	35	50
	VW	6600	50	50	35	50
	MW	7200	50	50	35	50
	LW	7900	50	50	35	50
	ML	8900	50	50	35	50
	HL	11500	45	45	35	40
	VL	13500	45	45	35	40
	XL	15500	45	45	35	40
	UL	20000	45	45	35	40

Minimum ambient temperature is -30°C without battery and 0°C with battery

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.93	0.86	0.84
TM-21-22	25C/77F	0.93	0.86	0.84

* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

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MPS

MULTIPURPOSE LINEAR

NX LIGHTING CONTROLS

NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓[1]		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓[2]		NXC-WIZ20
	BTSL	Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓		BTSMP-LMI

1 Requires NXBTC, order separately.

2 Requires use of NX Connect App available for download from Apple app store.

DEFAULT SETTINGS

NX Wirelss & Wired	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7 Minutes
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0% (OFF)
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	Off
Passcode Factory Passcode: HubbN3T!	Enabled

NX Independent - NX Connect (NXCS)	
Settling/Dwell Time	5 sec
Hold Time	10 min
Group Hold Time	10 min
Grace Time	-
Strategy	Auto ON/OFF
Occupancy Sensitivity	5 (highest)
Occupancy Indicator	ON
Partial Off/Standby	0%
Background Level	50%
Task Level	100%
Daylight Harvesting	-
Low Ambient Output	250%
High Ambient Output	OFF

NX Independent - BTSL	
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0% (OFF)
Daylight Sensor	Disabled

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NX LIGHTING CONTROLS (CONTINUED)

PRODUCT IMAGES



NXWSM
NXESM



NXCS



BTSL

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android

Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

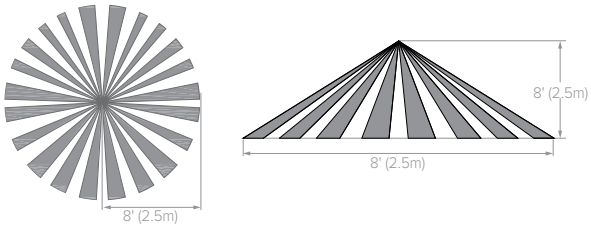
Apple iOS

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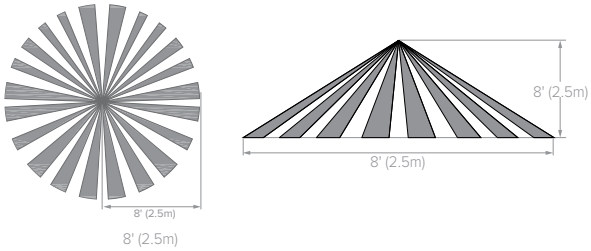
NX LIGHTING CONTROLS (CONTINUED)

COVERAGE PATTERNS

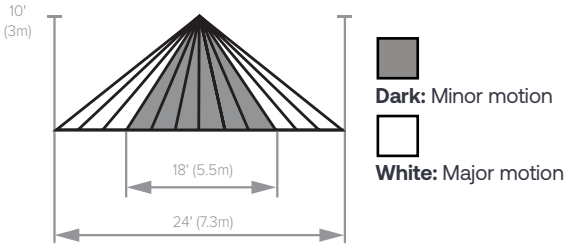
NXWSM/NXESM (NXSMP2-SMI SENSOR)



BTSL



NXCS (NXC-WIZ20 SENSOR)



PIR sensor coverage tested as defined in NEMA WD7-2011

OTHER LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.[1]	–	✓	–	✓	✓	✓	✓	✓[3]		SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs.[2]	✓	✓	✓	–	–	–	✓	–		DFCSJ-OEM-RF
	LVS		✓	✓	✓	✓	✓	–	✓	–		DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.[3]	✓	✓	–	–	–	✓	✓	–		A-WN-D01-RF-WH
	AWNS		✓	✓	✓	✓	✓	✓	✓	–		A-WN-D01-OCC-WH

1 Philips MasterConnect App required for field configuration.
2 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.
3 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

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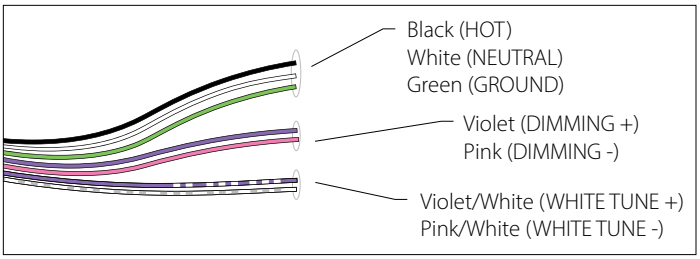
SPECTRASYNC™ COLOR TUNING TECHNOLOGY

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White

Requires two 0–10V controllers, one for intensity and one for CCT.
Minimum 5% dimming.

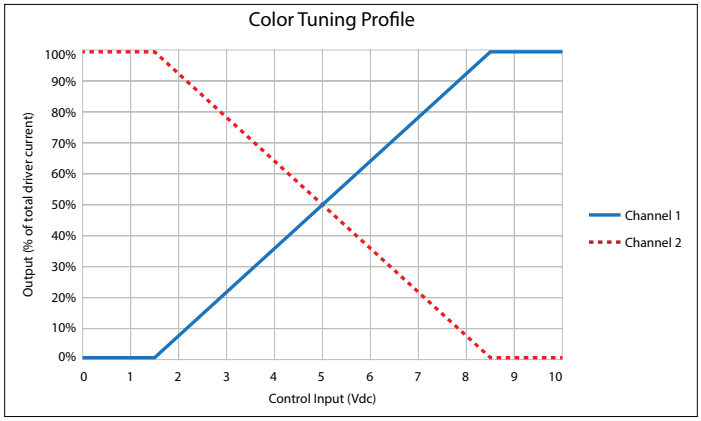


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

SPECTRASYNC™ AND NX AVAILABILITY TABLE

		Only With 80 CRI No Battery Pack			Only With 80 CRI With Battery Pack		
Size	Lumen package	CTC	NX	CTC+NX	CTC	NX	CTC+NX
2ft	VW	Y	Y	N	—	—	—
	MW	Y	Y	N	—	—	—
	LW	Y	Y	N	—	—	—
	ML	N	Y	N	—	—	—
	HL, VL, XL, UL	N	Y	N	—	—	—
4ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	Y	Y	Y	Y	Y	Y
	LW	Y	Y	Y	Y	Y	Y
	ML	Y	Y	Y	Y	Y	Y
	HL	Y	Y	Y	Y	Y	Y
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N
8ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	N	Y	N	N	Y	N
	LW	N	Y	N	N	Y	N
	ML	N	Y	N	N	Y	N
	HL	N	Y	N	N	Y	N
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N

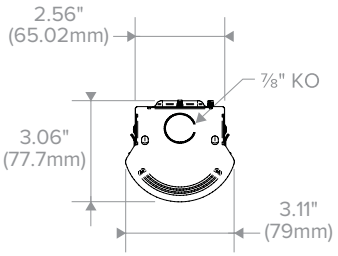
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MPS

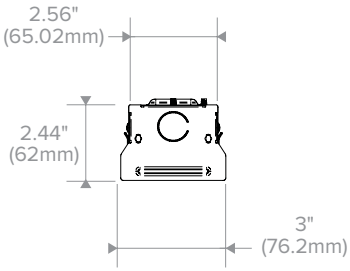
MULTIPURPOSE LINEAR

DIMENSIONS

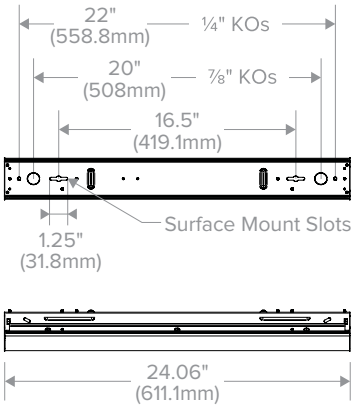
MPS END View - Curve Lens



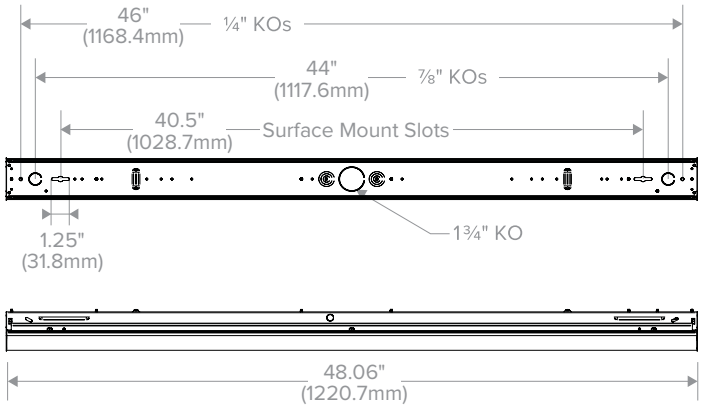
MPS END View - FLAT Lens



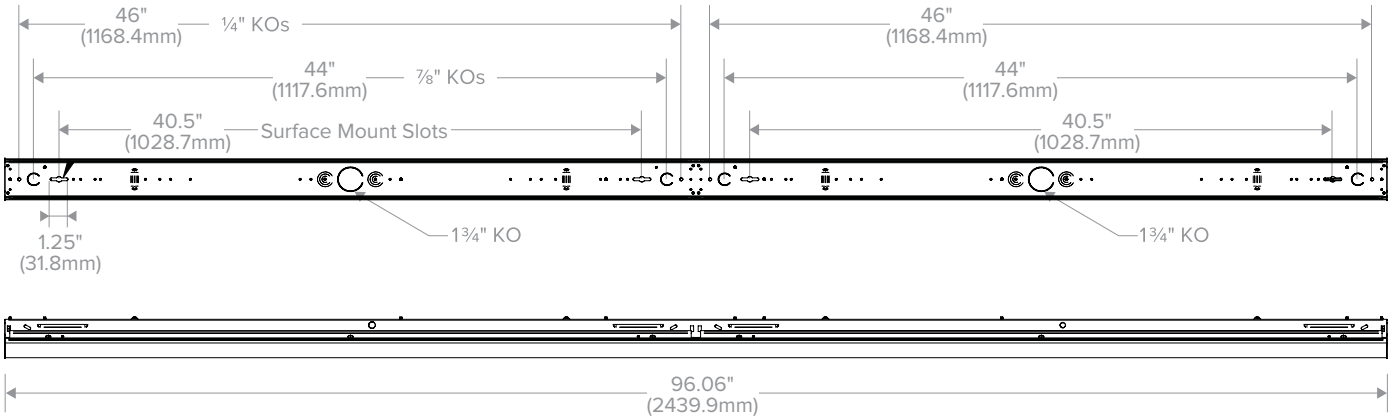
MPS 2' Dimensions



MPS 4' Dimensions



MPS 8' Dimensions



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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FW01

PHOTOMETRY

MPS4-40ML-CW-EDU

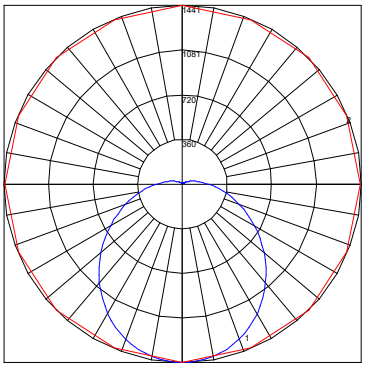
LUMINAIRE DATA

Test No.	**23.0113**
Description	**4' Multi-Purpose Strip-Light w/ Diffuse, Curved Acrylic Lens**
Delivered Lumens	**5025**
Watts	**31.2**
Efficacy	**161**
Mounting	**Surface**
Spacing Criterion	**0° = 1.20 90° = 1.32**

ZONAL LUMEN SUMMARY

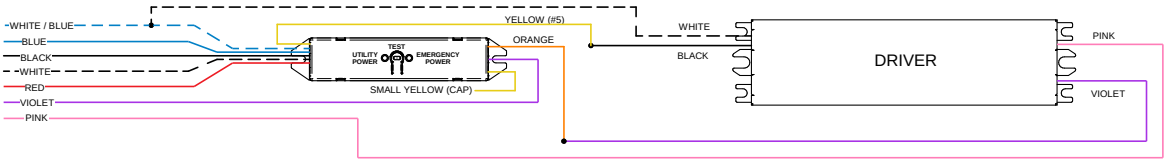
Zone	Lumens	% Luminaire
0–30	1145.29	22.8
0–40	1872.04	37.3
0–60	3334.68	66.4
0–90	4648.46	92.5
0–180	5024.73	100.0

POLAR GRAPH



Maximum Candela = 1440.943 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION: FW02

TYPE: PROJECT:

CATALOG #:

FEATURES

- Uniform end-to-end lens brightness with optional continuous row mounting that gives an uninterrupted ribbon of light
- Superior color consistency within a 3-step MacAdam ellipse and greater than 80 CRI
- Available in 2', 4' or 8' lengths
- Optional 90 or 120 min integral emergency battery pack (CEC Title 20 Compliant)
- Curved and flat acrylic and curved polycarbonate lens options or a no lens (NL) version. Wide and Narrow distributions available
- Modular replaceable LED boards and driver accessible for future maintenance or upgrades
- Surface mount, wall mount or suspended mounting





NXWSM, NXESM



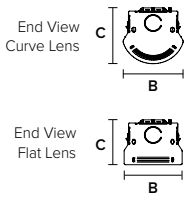
NXCS

SERVICE PROGRAMS

STOCK QS10

CONTROLS TECHNOLOGY

SpectraSync Color Tuning Technology | NX WIRELESS | NX WIRED | NX CONNECT | OCCUPANCY SENSING | DAYLIGHT HARVESTING



Typical Dimensions and Weights					
Sizes	(B) Width Inches (mm)		(C) Height Inches (mm)		Weight lbs (kg)
	Curve Lens	Flat Lens	Curve Lens	Flat Lens	
2'	3.11 (79)	3.00 (76)	3.06 (78)	2.44 (62)	4.0 (1.8)
4'					6.0 (2.7)
8'					12.0 (5.4)

SPECIFICATIONS

CONSTRUCTION

- Housing, wireway, and ends are formed from code-gauge steel
- Housing components act as heat sink for LED heat dissipation
- White painted parts are treated with a five stage phosphate bonding process and finished with high reflectance baked enamel

OPTICS

- Available with or without frosted lens

INSTALLATION

- Knockouts are provided for electrical access and mounting
- WARNING – Removing the lens during installation exposes the LEDs and due to their fragility they could be damaged. Handle the LED reflector plate with care, do not rest the LED reflector plate upside down directly on its LEDs as this could result in damage. Damage to LEDs from mishandling during installation will not be covered under warranty

ELECTRICAL

- Long-life LEDs are rated for 60,000 hours at L80 lumen maintenance
- Driver options include fixed output for on/off function, step dimming (high/low/off), or continuous 0–10V dimming
- Superior drivers and long-life LEDs provide quality illumination for prolonged service life

ELECTRICAL (CONTINUED)

- Drivers < 10% THD at 120V, power factor > 0.95
- Lumen packages up to 10,000 lumens rated to 40°C (104°F) max ambient. Lumen packages up to 5,000 lumens rated to 50°C (122°F) max ambient. Minimum ambient temperature -20°C (-4°F)

CONTROLS

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices
- SpectraSync (TM) Color Tuning Technology offers a tunable white solution and integrates seamlessly into a variety of control systems

CERTIFICATIONS

- All luminaires are built to UL 1598 standards, and bear appropriate cCSAus labels
- Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- DLC® (DesignLights Consortium) Qualified, Please refer to the DLC website for specific product qualifications at www.designlights.org
- Adheres to LM79, LM80, and TM21 industry standards
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

- 5 year warranty

STOCK GUIDE

STOCK

	Catalog No.	UPC	Description	Weight (lbs)	Pallet Qty	DLC QPL
☐	MPS4-35ML-CW-EDU	078531138714	4', 80 CRI, 3500K, 4556 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 114 LPW, White	6.1	56	PKQ78077
☐	MPS4-35ML-FW-EDU	603134946413	4', 80 CRI, 3500K, 4230 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 134 LPW, White	6.1	56	P9P5CV62
☐	MPS4-40ML-CW-EDU	078531138721	4', 80 CRI, 4000K, 4614 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 40W, 115 LPW, White	6.1	56	P04CB2S2
☐	MPS4-40ML-FW-EDU	603134946420	4', 80 CRI, 3500K, 4277 Lumens, Flat Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 31W, 135 LPW, White	6.1	56	PLLGKQUG
☐	MPS8-50ML-CW-EDU	078531138752	8', 80 CRI, 5000K, 9532 Lumens, Curved Frosted Acrylic Wide Distribution Lens, 0-10V Dimming Driver, 120-277V, 80W, 119 LPW, White	13.6	56	PSCRMP7L
☐	CSHC	078531000868	Chain Hanging Assembly - (2) 14" Chains and V-Hooks	0.2	N/A	N/A

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Columbia LIGHTING

MPS

MULTIPURPOSE LINEAR

DATE: LOCATION: FW02

TYPE: PROJECT:

CATALOG #:

Gray Shading = Service Program Limit of 150 Luminaries QS10

ORDERING GUIDE

Example: MPS4–40ML–CW–EDU

MPS –

Model	Size [1]	CRI
MPS MultiPurpose Linear	**2** 2'	**Blank** >80
	4 4'	**9** 90
	8 8'	

–

Color Temp	Nominal Lumens
30 3000K	**XW** 4' (2600), 8' (5200)
35 3500K	**VW** 2'(1600), 4'(3300), 8' (6600)
40 4000K	**MW** 2'(2200), 4'(3600), 8' (7200)
50 5000K	**LW** 2'(2400), 4'(4000), 8' (7900)
2765T 2700K–6500K SpectraSync™ Tunable White [2]	**ML** 2'(3400), 4'(4500), 8' (8900)
	HL 2'(3700), 4'(5800), 8' (11,500)
	VL 2' (4400), 4' (6800), 8' (13,500)
	XL 2' (5400), 4' (7,800), 8' (15,500)
	UL 2'(6200), 4'(10,000), 8'(20,000)

–

Lens	Distribution
C Curve, Frosted Acrylic	**N** Narrow Distribution [3]
F Flat, Frosted Acrylic	**W** Wide Distribution
NL No Lens	
CP Curve, Frosted Polycarbonate	

–

Driver [4]	
ED	0-10V Dimming
ED1	0-10V 1% Dimming
EDD	0-10V Dim-to-Off
ESD	Step Dimming [5, 9]
LUTH	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [5, 6]
DALIP	Powered by DALI [5]

–

Voltage	
U	120V-277V
347	347V (ED, ED1 only)

–

Options	
ELL14	10W Emergency Battery Pack (CEC Title 20 Compliant) Installed [5, 7, 8]
ELL14H2	9W Emergency Battery Pack (CEC Title 20 Compliant) Installed, 2-Hour Run Time [5, 7, 8, 10]
DTS	Dimming Bypass Module [5, 11]
MPSCE	Injection Molded ABS Material Curve Endcap [12]
MPSCE-MB	Injection Molded ABS Material Curve Endcap, Matte Black [13]
MPSFE	Injection Molded ABS Material Flat Endcap [12]
MPSFE-MB	Injection Molded ABS Material Flat Endcap, Matte Black [13]
MB	Matte Black
SLV	Silver
PAF	Painted After Fabrication
MST	MASTER fixture that controls one or more SATELLITE fixtures in a continuous row application [14, 15, 16, 17, 18, 19, 20]
SAT	SATELLITE fixture controlled by MASTER fixture in a continuous row application [15, 16, 17, 18, 19, 20]
INT	Intermediate (provides ends with wiring access for continuous row mounting) [19, 20, 21]
EOR	End of Row (provides end wiring access for continuous row mounting) [19, 20, 21]
GLR	Fast Blow Fuse [5]

Control Options [12, 22, 23, 24]	
NX Lighting Controls	
Networked Wireless	
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [25, 26]
NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Networked Wired	
NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor [25, 26]
NXESM	NX Wired Dual RJ45 SmartPORTS & Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [25, 26]
Independent Control	
NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy & Photocell Sensor [5, 27, 28, 29]
BTSL	Bluetooth Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [25, 26]
Other Lighting Controls	
Networked Wireless	
LVR	Lutron Vive Integral Fixture Control DFCSJ-OEM-RF (RF only) [5, 27, 28, 30]
LVS	Lutron Vive Integral Fixture Control DFCSJ-OEM-OCC (RF with daylight and occupancy sensing) [5, 27, 28, 30]
AWNR	Lutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) [5, 25, 28]
AWNS	Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing [5, 25, 28]
Independent Control	
ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 [5, 27, 28]
ZLS05	Occupancy & Daylight Sensor, Leviton ZLS05 [5, 25, 28]

Notes:

1 Refer to Row Mount Ordering Instructions for Continuous Row applications
2 Refer to SpectraSync and NX Availability table. Only available with ED driver and 80 CRI.
3 Only available with Curve, Frosted Acrylic lens option
4 Dimming curves may vary dependent upon lumen output and driver option chosen Separate dimming circuits are recommended if multiple driver options are chosen
5 Not available in 347V
6 Not available with 2ft: VW, MW, LW lumen packages, 4ft: XW, VL lumen packages or 8ft: MW, VL lumen packages
7 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
8 Not available with 2ft fixture. Not available with thru wire and XL or UL lumen package on 4ft and 8ft fixtures
9 Max ambient temperature, 25°C
10 Not available for use in Canada
11 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram. Cannot be combined with SpectraSync or Controls options in 2ft fixture
12 PAF option included when this option is chosen
13 Only available with MB or SLV finish options

Continuous Row Options

14 Not available with INT option
15 One MST fixture can control multiple SAT fixtures but a SAT fixture can only be controlled by one MST fixture
16 Only available with NX Networked, NX Wired and NX Wireless Controls, consult factory for applications
17 Not available with LUTH
18 Not available with DTS
19 All fixtures in a continuous row application must use the same driver type and voltage
20 Quick connect wiring harness included
21 Suspension support required at every fixture coupling, see Mounting Accessories Guide

All Controls

22 Control Options include injection molded ABS end cap
23 Dry location rated only
24 Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls

25 Only available with ED, ED1 or EDD driver options
26 Not available in 2ft when combined with SpectraSync

Other Lighting Controls Options

27 Only available with DALIP driver option
28 Not available with SpectraSync
29 Not available with 2ft: VW, MW and LW lumen packages or 4ft: XW lumen package
30 Vive is a trademark of Lutron Electronics Co., Inc.

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MPS

MULTIPURPOSE LINEAR

ORDERING GUIDE (CONTINUED)

Accessories	
☐ **S18**	18" Stem, Canopy
☐ **SS18**	18" Swivel Stem—45° Swivel
☐ **CM24SCF3-KIT**	24" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM48SCF3-KIT**	48" Adjustable Cable Mounting Kit, 3-wire feed
☐ **CM24NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-24"
☐ **CM48NF-KIT**	Single Point Non-Feed Cable Mount with Canopy, Single-48"
☐ **CSHC**	Chain Hanger Assembly
☐ **MPSZT**	Zip Tee Hanger - 1½" Spacer on T-Bar Ceiling
☐ **MPSTH**	Slide Tong Hanger
☐ **MPSCRK-C**	Continuous Row Kit, Curve
☐ **MPSCRK-F**	Continuous Row Kit, Flat
☐ **MPSWG2**	2' Wire Guard
☐ **MPSWG4**	4' Wire Guard[1]
☐ **MPSCE**	Injection Molded ABS Material Curve Endcap
☐ **MPSCE-MB**	Injection Molded ABS Material Curve Endcap, Matte Black
☐ **MPSFE**	Injection Molded ABS Material Flat Endcap
☐ **MPSFE-MB**	Injection Molded ABS Material Flat Endcap, Matte Black
☐ **REFL-MPS4 STL SLD W16**	4' Symmetric Reflector Solid[1]
☐ **REFL-MPS4 STL SLTD W16**	4' Symmetric Reflector Slotted[1]
☐ **REFL-MPS4 STL SLD ASYMW16**	4' Asymmetric Reflector Solid[1]
☐ **CBL-HB-120-6Y-PAD**	10ft Adjustable 10' aircraft cable Y hanger paddle ends (1 pair, must be used in conjunction with MPSTH accessory.)

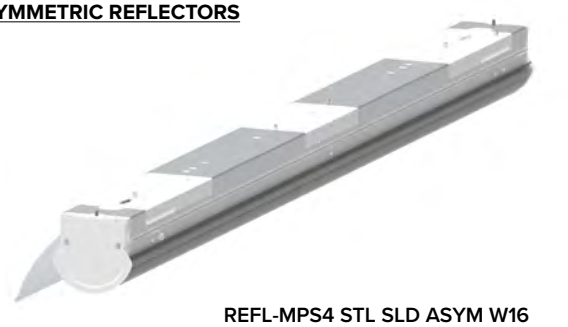
Notes:
1 Two Required for 8' fixture

SYMMETRIC REFLECTORS



REFL-MPS4 STL SLD W16
4' Symmetric Reflector Solid

ASYMMETRIC REFLECTORS



REFL-MPS4 STL SLD ASYM W16
4" Asymmetric Reflector Solid

CONTINUOUS ROW MOUNT EXAMPLE GUIDE					
Continuous Row Length	MPS4	MPS8	MPSCRK-*	CM**SCF*-KIT	CM**NF-KIT
12' — Option 1	1	1	1	1	1
12' — Option 2	3	0	2	1	1
16' — Option 1	0	2	1	1	1
16' — Option 2	2	1	2	1	2
32' — Option 1	0	4	3	2	1
32' — Option 2	2	3	4	2	1

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS

STANDARD EFFICACY PERFORMANCE TABLE — 2'

FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS2-VW	3500K	CURVE	WIDE	1560	10.4	150
			NARROW	1544	10.4	149
		FLAT	WIDE	1513	10.4	146
		NO LENS		1669	10.4	161
	4000K	CURVE	WIDE	1587	10.4	153
			NARROW	1571	10.4	151
		FLAT	WIDE	1539	10.4	148
		NO LENS		1698	10.4	163
MPS2-MW	3500K	CURVE	WIDE	2069	13.6	153
			NARROW	2048	13.6	151
		FLAT	WIDE	2007	13.6	148
		NO LENS		2214	13.6	163
	4000K	CURVE	WIDE	2104	13.6	155
			NARROW	2083	13.6	153
		FLAT	WIDE	2041	13.6	150
		NO LENS		2251	13.6	166
MPS2-LW	3500K	CURVE	WIDE	2639	17.2	153
			NARROW	2613	17.2	152
		NO LENS	WIDE	2560	17.2	149
				2824	17.2	164
	4000K	CURVE	WIDE	2683	17.2	156
			NARROW	2656	17.2	154
		FLAT	WIDE	2603	17.2	151
		NO LENS		2871	17.2	167
MPS2-ML	3500K	CURVE	WIDE	3262	21.5	152
			NARROW	3229	21.5	150
		FLAT	WIDE	3164	21.5	147
		NO LENS		3490	21.5	162
	4000K	CURVE	WIDE	3317	21.5	155
			NARROW	3284	21.5	153
		FLAT	WIDE	3217	21.5	150
		NO LENS		3549	21.5	165
MPS2-HL	3500K	CURVE	WIDE	3617	24.1	150
			NARROW	3581	24.1	149
		FLAT	WIDE	3508	24.1	146
		NO LENS		3870	24.1	161
	4000K	CURVE	WIDE	3678	24.1	153
			NARROW	3641	24.1	151
		FLAT	WIDE	3568	24.1	148
		NO LENS		3935	24.1	163
MPS2-VL	3500K	CURVE	WIDE	4433	28.1	158
			NARROW	4389	28.1	156
		FLAT	WIDE	4300	28.1	153
		NO LENS		4743	28.1	169
	4000K	CURVE	WIDE	4508	28.1	160
			NARROW	4463	28.1	159
		FLAT	WIDE	4373	28.1	156
		NO LENS		4824	28.1	172
MPS2-XL	3500K	CURVE	WIDE	5409	34.9	155
			NARROW	5355	34.9	153
		FLAT	WIDE	5247	34.9	150
		NO LENS		5788	34.9	166
	4000K	CURVE	WIDE	5500	34.9	158
			NARROW	5445	34.9	156
		FLAT	WIDE	5335	34.9	153
		NO LENS		5885	34.9	169
MPS2-UL	3500K	CURVE	WIDE	6202	40.6	153
			NARROW	6140	40.6	151
		FLAT	WIDE	6016	40.6	148
		NO LENS		6636	40.6	163
	4000K	CURVE	WIDE	6307	40.6	153
			NARROW	6244	40.6	154
		FLAT	WIDE	6118	40.6	151
		NO LENS		6748	40.6	166

STANDARD EFFICACY PERFORMANCE TABLE — 4'

FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS4-XW	3500K	CURVE	WIDE	2560	16.2	158
			NARROW	2534	16.2	156
		FLAT	WIDE	2483	16.2	153
		NO LENS		2739	16.2	169
	4000K	CURVE	WIDE	2603	16.2	161
			NARROW	2577	16.2	159
		FLAT	WIDE	2525	16.2	156
		NO LENS		2785	16.2	172
MPS4-VW	3500K	CURVE	WIDE	3271	20.5	160
			NARROW	3238	20.5	158
		FLAT	WIDE	3173	20.5	155
		NO LENS		3500	20.5	171
	4000K	CURVE	WIDE	3326	20.5	162
			NARROW	3293	20.5	161
		FLAT	WIDE	3226	20.5	157
		NO LENS		3559	20.5	174
MPS4-MW	3500K	CURVE	WIDE	3659	23.0	159
			NARROW	3622	23.0	157
		FLAT	WIDE	3549	23.0	154
		NO LENS		3915	23.0	170
	4000K	CURVE	WIDE	3721	23.0	162
			NARROW	3684	23.0	160
		FLAT	WIDE	3609	23.0	157
		NO LENS		3981	23.0	173
MPS4-LW	3500K	CURVE	WIDE	4270	26.9	159
			NARROW	4227	26.9	157
		FLAT	WIDE	4142	26.9	154
		NO LENS		4569	26.9	170
	4000K	CURVE	WIDE	4342	26.9	161
			NARROW	4299	26.9	160
		FLAT	WIDE	4212	26.9	157
		NO LENS		4646	26.9	173
MPS4-ML	3500K	CURVE	WIDE	4941	31.2	158
			NARROW	4892	31.2	157
		FLAT	WIDE	4793	31.2	154
		NO LENS		5287	31.2	169
	4000K	CURVE	WIDE	5025	31.2	161
			NARROW	4975	31.2	159
		FLAT	WIDE	4874	31.2	156
		NO LENS		5377	31.2	172
MPS4-HL	3500K	CURVE	WIDE	5918	37.6	157
			NARROW	5859	37.6	156
		FLAT	WIDE	5740	37.6	153
		NO LENS		6332	37.6	168
	4000K	CURVE	WIDE	6018	37.6	160
			NARROW	5958	37.6	158
		FLAT	WIDE	5837	37.6	155
		NO LENS		6439	37.6	171
MPS4-VL	3500K	CURVE	WIDE	7128	46.5	153
			NARROW	7057	46.5	152
		FLAT	WIDE	6914	46.5	149
		NO LENS		7627	46.5	164
	4000K	CURVE	WIDE	7249	46.5	156
			NARROW	7177	46.5	154
		FLAT	WIDE	7032	46.5	151
		NO LENS		7756	46.5	167
MPS4-XL	3500K	CURVE	WIDE	8715	55.1	158
			NARROW	8628	55.1	157
		FLAT	WIDE	8454	55.1	153
		NO LENS		9325	55.1	169
	4000K	CURVE	WIDE	8863	55.1	161
			NARROW	8774	55.1	159
		FLAT	WIDE	8597	55.1	156
		NO LENS		9483	55.1	172
MPS4-UL	3500K	CURVE	WIDE	10168	65.6	155
			NARROW	10066	65.6	153
		FLAT	WIDE	9863	65.6	150
		NO LENS		10880	65.6	166
	4000K	CURVE	WIDE	10340	65.6	158
			NARROW	10237	65.6	156
		FLAT	WIDE	10030	65.6	153
		NO LENS		11064	65.6	169

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MPS

MULTIPURPOSE LINEAR

DELIVERED LUMENS (CONTINUED)

STANDARD EFFICACY PERFORMANCE TABLE — 8'						
FIXTURE	COLOR	LENS	DISTRIBUTION	LUMENS	WATTS	LPW
MPS8-XW	3500K	CURVE	WIDE	5120	31.2	164
			NARROW	5069	31.2	162
		FLAT	WIDE	4966	31.2	159
		NO LENS		5478	31.2	176
	4000K	CURVE	WIDE	5207	31.2	167
			NARROW	5155	31.2	165
		FLAT	WIDE	5051	31.2	162
		NO LENS		5571	31.2	179
MPS8-VW	3500K	CURVE	WIDE	6542	39.7	165
			NARROW	6477	39.7	163
		FLAT	WIDE	6346	39.7	160
		NO LENS		7000	39.7	176
	4000K	CURVE	WIDE	6653	39.7	168
			NARROW	6586	39.7	166
		FLAT	WIDE	6453	39.7	163
		NO LENS		7119	39.7	179
MPS8-MW	3500K	CURVE	WIDE	7318	44.7	164
			NARROW	7245	44.7	162
		FLAT	WIDE	7098	44.7	159
		NO LENS		7830	44.7	175
	4000K	CURVE	WIDE	7442	44.7	166
			NARROW	7368	44.7	165
		FLAT	WIDE	7219	44.7	161
		NO LENS		7963	44.7	178
MPS8-LW	3500K	CURVE	WIDE	8539	52.8	162
			NARROW	8454	52.8	160
		FLAT	WIDE	8283	52.8	157
		NO LENS		9137	52.8	173
	4000K	CURVE	WIDE	8684	52.8	164
			NARROW	8597	52.8	163
		FLAT	WIDE	8423	52.8	160
		NO LENS		9292	52.8	176
MPS8-ML	3500K	CURVE	WIDE	9882	61.5	161
			NARROW	9783	61.5	159
		FLAT	WIDE	9586	61.5	156
		NO LENS		10574	61.5	172
	4000K	CURVE	WIDE	10049	61.5	163
			NARROW	9949	61.5	162
		FLAT	WIDE	9748	61.5	158
		NO LENS		10752	61.5	175
MPS8-HL	3500K	CURVE	WIDE	11835	75.0	158
			NARROW	11717	75.0	156
		FLAT	WIDE	11480	75.0	153
		NO LENS		12663	75.0	169
	4000K	CURVE	WIDE	12036	75.0	160
			NARROW	11916	75.0	159
		FLAT	WIDE	11675	75.0	156
		NO LENS		12879	75.0	172
MPS8-VL	3500K	CURVE	WIDE	14257	93.1	153
			NARROW	14114	93.1	152
		FLAT	WIDE	13829	93.1	149
		NO LENS		15255	93.1	164
	4000K	CURVE	WIDE	14498	93.1	156
			NARROW	14353	93.1	154
		FLAT	WIDE	14063	93.1	151
		NO LENS		15513	93.1	167
MPS8-XL	3500K	CURVE	WIDE	17431	110.8	157
			NARROW	17257	110.8	156
		FLAT	WIDE	16908	110.8	153
		NO LENS		18651	110.8	168
	4000K	CURVE	WIDE	17726	110.8	160
			NARROW	17549	110.8	158
		FLAT	WIDE	17194	110.8	155
		NO LENS		18967	110.8	171
MPS8-UL	3500K	CURVE	WIDE	20336	131.3	155
			NARROW	20133	131.3	153
		FLAT	WIDE	19726	131.3	150
		NO LENS		21760	131.3	166
	4000K	CURVE	WIDE	20680	131.3	158
			NARROW	20473	131.3	156
		FLAT	WIDE	20060	131.3	153
		NO LENS		22128	131.3	169

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AMBIENT TEMPERATURE RATINGS

TEMPERATURE TABLE (C°) — 2', 4' & 8'						
80 CRI, Ceiling/Surface Mount						
Size	Lumen Package		Without Battery		With ELL14	With ELL14ST
			ED/ED1/EDD	ED347	ED/ED1/EDD	ED/ED1/EDD
2'	VW	1600	35	35	--	--
	MW	2200	35	35	--	--
	LW	2400	35	35	--	--
	ML	3400	35	35	--	--
	HL	3700	35	35	--	--
	VL	4400	35	35	--	--
	XL	5400	35	35	--	--
	UL	6200	35	35	--	--
4'	XW	2600	50	50	35	50
	VW	3300	50	50	35	50
	MW	3600	50	50	35	50
	LW	4000	50	50	35	50
	ML	4500	50	50	35	50
	HL	5800	45	45	35	40
	VL	6800	45	45	35	40
	XL	7800	45	45	35	40
	UL	10000	45	45	35	40
8'	XW	5200	50	50	35	50
	VW	6600	50	50	35	50
	MW	7200	50	50	35	50
	LW	7900	50	50	35	50
	ML	8900	50	50	35	50
	HL	11500	45	45	35	40
	VL	13500	45	45	35	40
	XL	15500	45	45	35	40
	UL	20000	45	45	35	40

Minimum ambient temperature is -30°C without battery and 0°C with battery

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.93	0.86	0.84
TM-21-22	25C/77F	0.93	0.86	0.84

* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

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MPS

MULTIPURPOSE LINEAR

NX LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓[1]		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓[2]		NXC-WIZ20
	BTSL	Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓		BTSMP-LMI

1 Requires NXBTC, order separately.

2 Requires use of NX Connect App available for download from Apple app store.

DEFAULT SETTINGS

NX Wirelss & Wired	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7 Minutes
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	Passcode Factory Passcode: HubbN3T!	Enabled

NX Independent - NX Connect (NXCS)	Settling/Dwell Time	5 sec
	Hold Time	10 min
	Group Hold Time	10 min
	Grace Time	-
	Strategy	Auto ON/OFF
	Occupancy Sensitivity	5 (highest)
	Occupancy Indicator	ON
	Partial Off/Standby	0%
	Background Level	50%
	Task Level	100%
	Daylight Harvesting	-
	Low Ambient Output	250%
	High Ambient Output	OFF

NX Independent - BTSL	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (OFF)
	Daylight Sensor	Disabled

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NX LIGHTING CONTROLS (CONTINUED)

PRODUCT IMAGES



NXWSM
NXESM



NXCS



BTSL

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android

Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

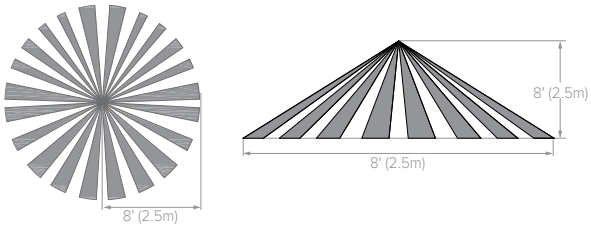
Apple iOS

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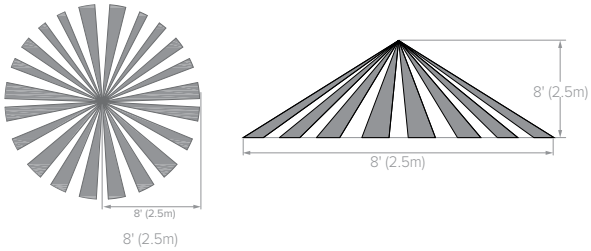
NX LIGHTING CONTROLS (CONTINUED)

COVERAGE PATTERNS

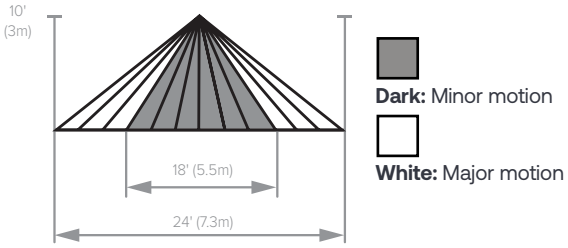
NXWSM/NXESM (NXSMP2-SMI SENSOR)



BTSL



NXCS (NXC-WIZ20 SENSOR)



PIR sensor coverage tested as defined in NEMA WD7-2011

OTHER LIGHTING CONTROLS

	Control Option Ordering Logic & Description		Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.[1]	–	✓	–	✓	✓	✓	✓	✓[3]		SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs.[2]	✓	✓	✓	–	–	–	✓	–		DFCSJ-OEM-RF
	LVS		✓	✓	✓	✓	✓	–	✓	–		DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.[3]	✓	✓	–	–	–	✓	✓	–		A-WN-D01-RF-WH
	AWNS		✓	✓	✓	✓	✓	✓	✓	–		A-WN-D01-OCC-WH

1 Philips MasterConnect App required for field configuration.
2 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.
3 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

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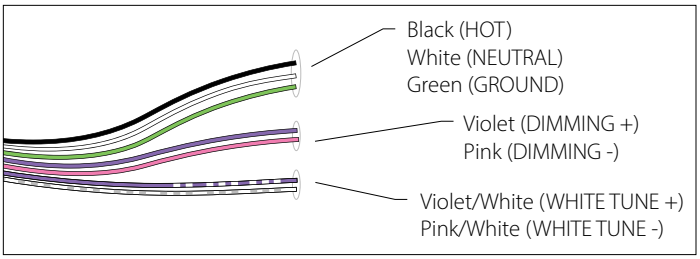
SPECTRASYNC™ COLOR TUNING TECHNOLOGY

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White

Requires two 0–10V controllers, one for intensity and one for CCT.
Minimum 5% dimming.

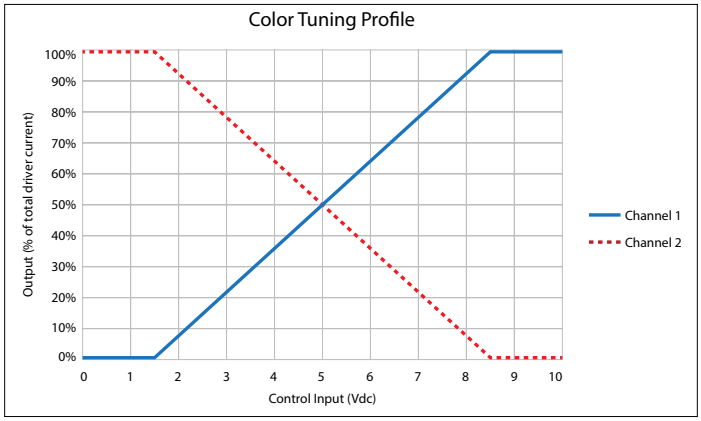


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

SPECTRASYNC™ AND NX AVAILABILITY TABLE

		Only With 80 CRI No Battery Pack			Only With 80 CRI With Battery Pack		
Size	Lumen package	CTC	NX	CTC+NX	CTC	NX	CTC+NX
2ft	VW	Y	Y	N	—	—	—
	MW	Y	Y	N	—	—	—
	LW	Y	Y	N	—	—	—
	ML	N	Y	N	—	—	—
	HL, VL, XL, UL	N	Y	N	—	—	—
4ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	Y	Y	Y	Y	Y	Y
	LW	Y	Y	Y	Y	Y	Y
	ML	Y	Y	Y	Y	Y	Y
	HL	Y	Y	Y	Y	Y	Y
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N
8ft	XW	Y	Y	Y	Y	Y	Y
	VW	Y	Y	Y	Y	Y	Y
	MW	N	Y	N	N	Y	N
	LW	N	Y	N	N	Y	N
	ML	N	Y	N	N	Y	N
	HL	N	Y	N	N	Y	N
	VL	N	Y	N	N	Y	N
	XL, UL	N	Y	N	N	Y	N

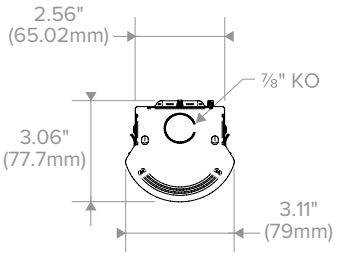
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MPS

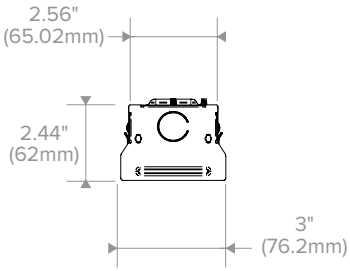
MULTIPURPOSE LINEAR

DIMENSIONS

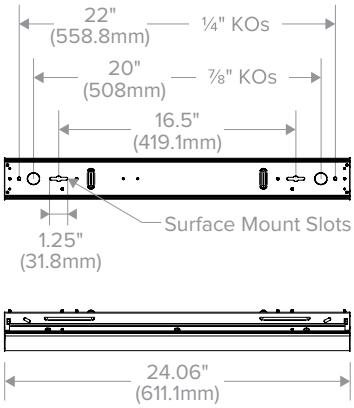
MPS END View - Curve Lens



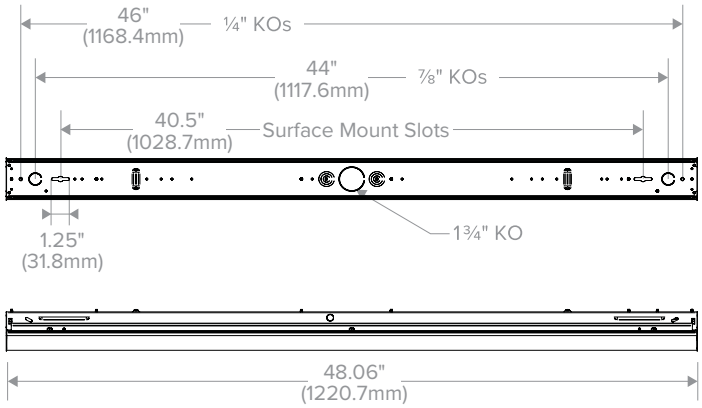
MPS END View - FLAT Lens



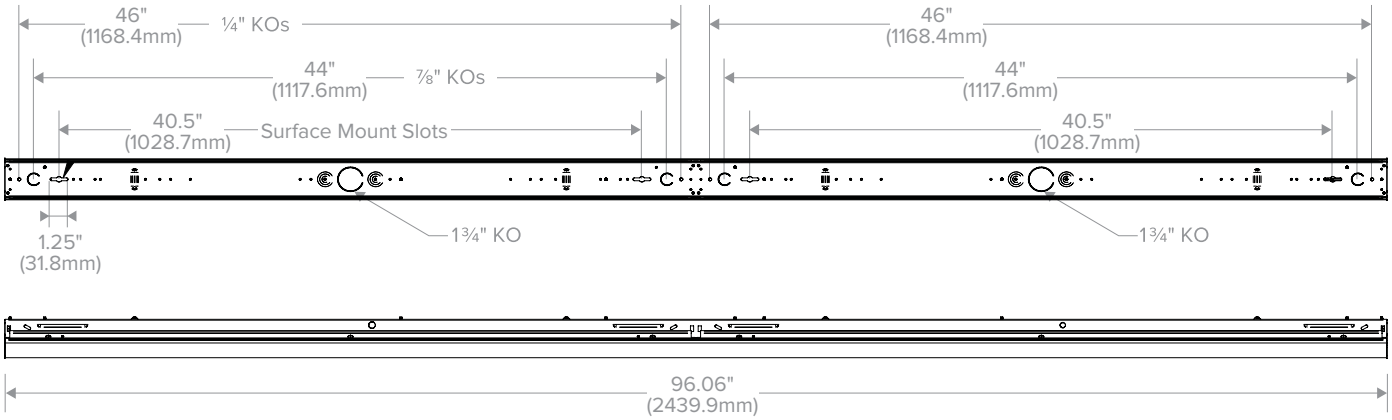
MPS 2' Dimensions



MPS 4' Dimensions



MPS 8' Dimensions



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MPS

MULTIPURPOSE LINEAR

PHOTOMETRY

MPS4-40ML-CW-EDU

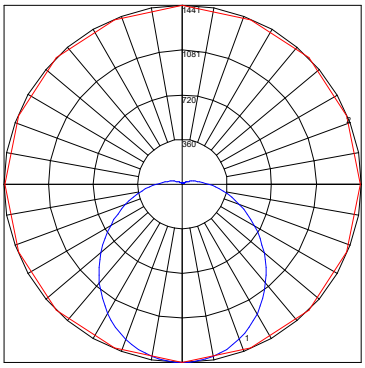
LUMINAIRE DATA

Test No.	**23.0113**
Description	**4' Multi-Purpose Strip-Light w/ Diffuse, Curved Acrylic Lens**
Delivered Lumens	**5025**
Watts	**31.2**
Efficacy	**161**
Mounting	**Surface**
Spacing Criterion	**0° = 1.20 90° = 1.32**

ZONAL LUMEN SUMMARY

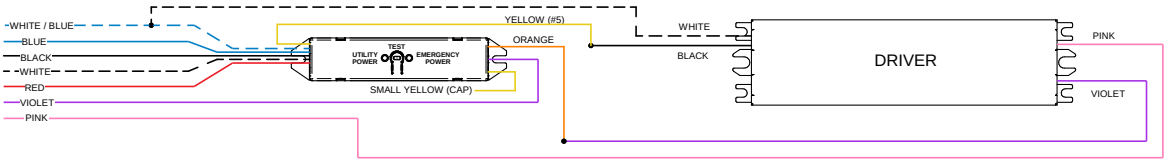
Zone	Lumens	% Luminaire
0–30	1145.29	22.8
0–40	1872.04	37.3
0–60	3334.68	66.4
0–90	4648.46	92.5
0–180	5024.73	100.0

POLAR GRAPH



Maximum Candela = 1440.943 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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VRSE-5

LED - Architectural Vandal Resistant Surface Luminaire

FW03

Project:	Catalog:	Type:
Notes:		

Product Description

The VRSE-5 series by Certolux is a specification-grade LED architectural luminaire for high abuse/vandal resistant applications. The housing is an extruded aluminum construction with die-cast end plates. The polycarbonate lens and tamper resistant fasteners allow this unit to be used in high abuse areas. The luminaire can be ceiling or wall mounted and is suitable for wet locations (ceiling mount) and damp locations (wall mount). Ideal for Schools, Community centers, and Stairwells. Operating ambient temperature range as low as -30°C to as high as 40°C on most models.

Feature Options

- Die Cast Endcaps
- Extruded aluminum housing
- Standard low voltage dimming (0-10v)
- ADA compliant design with Emergency
- Surface Mount to Wall or Ceiling
- Available in 2,3, 4, 6 and 8 foot assemblies

Options

- IP65 Water and Dust resistance
- Integral Emergency Driver
- Continuous Row Mounting



Approvals

c UL us LISTED

WET LOC | IK 10 | IP 64 | IP 65 Optional



Housing

Heavy gauge marine grade extruded aluminum with die-cast end caps. Includes knockouts for surface conduit and tandem or row mounting.

Endcap

Precision die cast marine grade low copper aluminum. Choose from flat or radius styles. Conduit entry is obsured.

Lens & Lens Retention

Standard lens; Opal, high impact extruded UV stablilized polycarbonate. Smooth external surface for easy cleaning, internal ribs for optical efficiency. Retained and locked by stainless steel tamper-resistant Torx™ fasteners with center rejection pins. See order code for other options.

Gasket Systems

Highly resilient and chemical resistant CertaSeal microcellular closed-cell gasket seals lens to the housing and Endcaps. Optional neoprene gasket for surface/ ceiling interface. IP65 option includes flush endcap screws.

LED

LED board modules are high efficiency and closely regulated to maintain CRI, color consistency, lumen performance, and efficacy. Select from 3000K, 3500K, 4000K, and 5000K color temperatures with a color consistency of 3 SDCM, standard 80 CRI, optional 90 CRI. Tunable White CCT range is 2700-6500K. Lifetime L70 is greater than 60,000 hrs. Modules are field replaceable and commercially available. Optional amber and red LEDs arrays available alone or in combination with white LEDs. Tunable White and Bios SkyBlue® options are also available.

Electrical

The standard electronic driver is constant current, programmable and dimmable to 1% using a 0-10V protocol. High efficiency (>85%) and low THD (<10%). Certified to FCC Part 15, Class A. 120-277Vac or 347Vac, 50/60hz. See “Options” for Lutron™ or DALI driver choices. Internal Emergency Drivers are serviceable from the room side unless otherwise.

Finish

5 Stage pretreatement and textured architectural white polyester powder coated after fabrication. Custom Colors are available, consult factory for details.

Installation

Two point mounting for 24”, 36” & 48” nominal size. Four point mounting for 72” and 96” nominal size. Row mounting requires selection of M56, M57 or M58 options to properly arrange rows. Row mounting provides through wiring to adjacent fixtures. Surface conduit connections are available at each end of fixture and rows. For Pendant mount see VRSD-5. Ambient operating temperture: -22°F (-30°C) to 104°F (40°C). Surface conduit connections are available at each end of fixture and rows via hidden break-away knockouts.

Listings, Certifications and Ratings

UL listed for wet locations ceiling mounted. Suitable for Damp locations when wall mounted. (CAN & USA, ANSI/UL1598 & UL8750). IEC60598 IP64 or optional IP65 (Certified dust-tight and resistant to jets of water). Exceeding IK10 impact resistance rating.

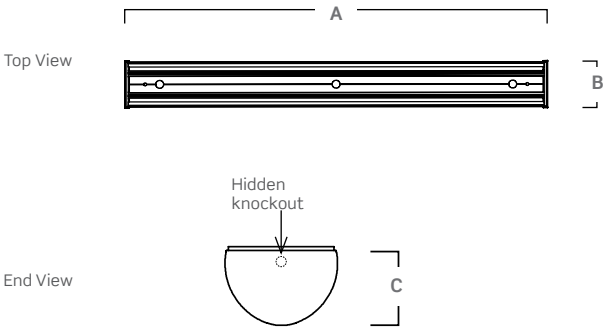
Warranty

10 Year Limited Warranty for LEDs. Unbreakable Warranty against abuse. Warranty

SPEEDSHIP

Refer to page 2 of the spec sheet for Speedship Items.

Dimensions



	Dimensions (inch) & Weights		
	A	B	C
24	24”	5 5/16”	3 1/2”
36	35”	5 5/16”	3 1/2”
48	47 1/4”	5 5/16”	3 1/2”
72	69 5/8”	5 5/16”	3 1/2”
96	94 1/4”	5 5/16”	3 1/2”

Consult installation guide for exact dimensions.

VRSE-5

LED - Architectural Vandal Resistant Surface Luminaire

LEVITON | Certolux Visioneering

FW03

Project:	Catalog:	Type:
Notes:		

SPEEDSHIP

Order Key for items that ship within 5 days.

SKU	Description
VRSE5-48FC-LED8xxK055LUNV-DPP	**VRSE-5** **Size:** 48 **Endcap:** Flat **CRI:** 80+ **CCT:** 3000K, 3500K, 4000K & 5000K **Lumens:** 035L & 055L **Voltage:** UNV - 120-277V **Lens:** DPP - Diffuse Pearlescent Polycarbonate, High Effiency (Std.)
VRSE5-48FC-LED8xxK035LUNV-DPP	
VRSE5-48RC-LED8xxK035LUNV-DPP	**VRSE-5** **Size:** 48 **Endcap:** Rounded **CRI:** 80+ **CCT:** 3000K, 3500K, 4000K & 5000K **Lumens:** 035L & 055L **Voltage:** UNV - 120-277V **Lens:** DPP - Diffuse Pearlescent Polycarbonate, High Effiency (Std.)
VRSE5-48RC-LED8xxK055LUNV-DPP	

Order Key

EXAMPLE: VRSE5-48RC-LED840K055LUNV-DPP

VRSE | 5 | | | - | LED | | | | | | - | | |

Series

VRSE

Type

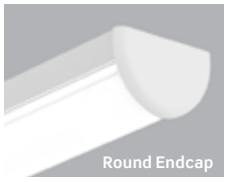
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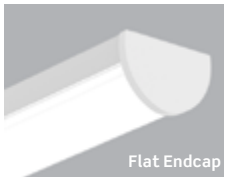
Size

24
36
48
72 (2x36)
96 (2x48)

Endcap

FC - Flat
RC - Rounded





CRI

8 - (80+)
9 - (90+)

CCT

30K - 3000 K
35K - 3500 K
40K - 4000 K
50K - 5000 K
AMB - Amber***
2765KT-2700-6500K**
(Tunable White)

Nominal Lumens

24"	White	
	025L - 2500	
	035L - 3500	
36"	025L - 2500	
	035L - 3500	
48"	035L - 3500	
	055L - 5500	
72" (2x36)	050L - 5000	
	070L - 7000	
96" (2x48)	070L - 7000	
	110L - 11000	

xxxLC= Specified lumens (must be < max. value per size) Consult factory for higher lumen options.

Voltage

UNV - 120-277V
347 - 347V

Lens

DPP - Diffuse Pearlescent Polycarbonate, High Effiency (Std.)

DFP - Full Diffusion Polycarbonate

Options

Driver Options

B02	Dimming Addressable Digital (DALI)
B39	Emergency Bat. Pack -LED 10 Watts *
B39(ST)	Emergency Bat. Pack, Self Testing -LED 10 Watts *
V33	Two Circuit Switching

Wiring Options

T6	Fuse and fuseholder (internal)
V25	Radio Frequency Filter
V68	Microwave Occupancy Sensor

Construction Options

C64	Natatorium Construction
C120	No lens screws#

Finish Options

-	Textured Architectural White (Std)
F99	Custom Color
C77	Color Matched Stainless lens Screws
F47	Antimicrobial Gloss White Powder Coat

Certification

X8	IP65 Rated (Surface Mount Only)

Mounting Options

M56	Start of Row Fixture
M57	Middle of Row Fixture
M58	End of Row Fixture Not Available with IP65 Option (X8)

* Standard emergency battery packs are 90 minutes, 32°F/0°C (4' only)

** When Selecting 2765KT, if a tunable white-compatible control is not selected the luminaire will come standards with two sets of 0-10V wires for dimming and color tuning. For compatible control options please consult factory

*** Do not specify a CRI for Amber CCT Source

Abuse warranty not provided without lens screws

VRSE-5

LED - Architectural Vandal Resistant Surface Luminaire

FW03

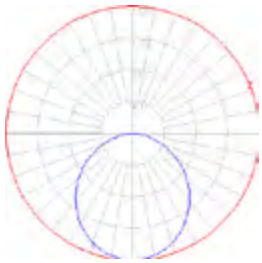
Project:	Catalog:	Type:
Notes:		

Performance Data				
Size	**Nominal Lumens**	**Delivered Lumens**	**Watts**	**Efficacy**
24	2500	2542	19.3	131.5
	3500	3524	27.8	126.8
36	2500	2569	19.0	135.4
	3500	3529	26.6	132.0
48	3500	3555	26.3	135.1
	5500	5583	42.8	130.3
72 (2x36)	5000	5138	38	135.2
	7000	7058	53.2	132.7
96 (2x48)	7000	7110	52.6	135.2
	11000	11166	85.6	130.4

* Lumen values are based on 4000K, 80 CRI erformance.
See Lumen Multipliers below for other CCT or CRI perfomance data.

Photometric Performance

Characteristics	
Luminaire Lumens	5583
Efficacy Rating	130
Total Luminaire Watts	42.8
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38



Lumminance Data (cd/sq.m)			
Degrees	**0-Deg**	**45-Deg**	**90-Deg**
45	13248	9806	8676
55	13579	8847	7284
65	14598	7900	5591
75	17652	7045	3375
85	31611	6536	659

Zonal Lumens	
Zone	**Lumens**
0-30	1260
0-40	2067
0-60	3707
0-90	5180
90-180	403

See Page 4 for Installation Details

VRSE-5

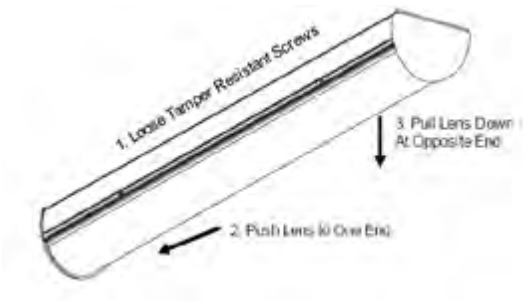
LED - Architectural Vandal Resistant Surface Luminaire

FW03

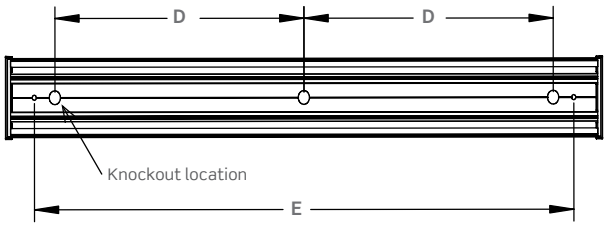
Project:	Catalog:	Type:
Notes:		

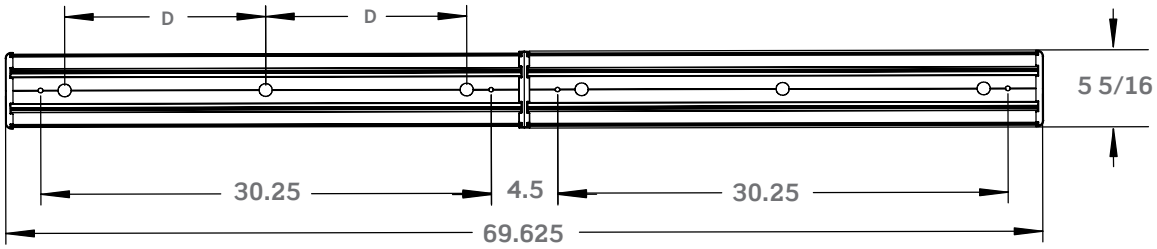
Installation Details

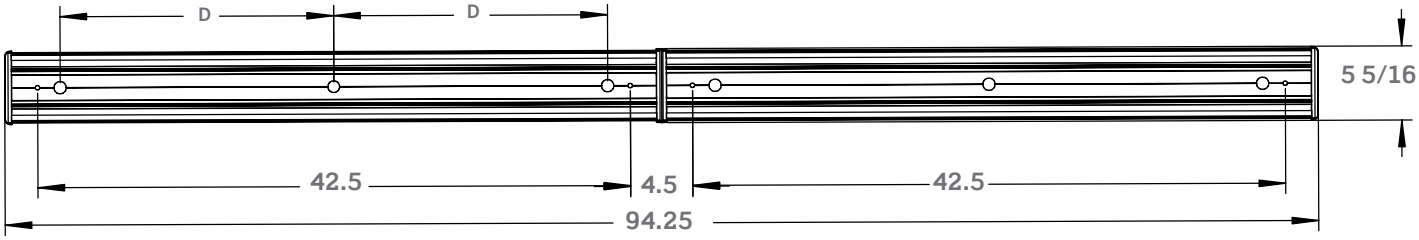
Fixture Opening Method



Surface Mount (all mounting point required)







	A	B	C	D	E
24	24”	5 5/16”	3 1/2”	-	19 1/4”
36	35”	5 5/16”	3 1/2”	13 1/2”	30 1/4”
48	47 1/4”	5 5/16”	3 1/2”	20”	42 1/2”
72	69 5/8”	5 5/16”	3 1/2”	13 1/2”	-
96	94 1/4”	5 5/16”	3 1/2”	20”	-

S/G

INSTALLATION INSTRUCTIONS

MODEL SG10-RG (INCANDESCENT LAMPS)
and MODEL SG10-RG-LED (LED LAMPS)
STOP & GO COMMUNICATION LIGHTS

c UL US LISTED 1P23

MODEL: SG10 and SG10B (Black Housing)
The SG10 contains no internal logic or flashing circuitry. The lamps operate when the user provides the correct power. The SG10 can be powered independently or in combination with other SG products.

CAUTION:

- **SG10's with incandescent lamps require a flashing power supply to avoid heat damage to the lens.**
- **All LED models may operate in either steady burn or flashing modes.**

INSTALLATION:

1) Choose location within convenient distance of your power source that is clearly visible to users. The power connection can be made either through the underside of the housing by removing the plug and using the ½" EMT fitting provided, or through the back plate. The EMT fitting may be employed on the back panel as well.

2) Using the housing as a template, drill four (4) holes. If you are mounting to a brick or masonry wall, we recommend sizing the holes to accept ¼" diameter lag-type mounting hardware. For mounting to a surface with access to the rear you may use appropiate fasteners and size the holes accordingly.

3) Use the gasket provided when mounting the unit to the wall to seal the back plate.

VOLTAGE REQUIREMENTS:

- **INCANDESCENT Models:** Provide suitable AC or DC voltage: **CAUTION: USE A FLASHER**

- **LED Models:** Provide **ONLY** DC power to 12 and 24-volt units. **Important Note:** The 24 volt LED models require careful control of the DC input voltages if generated from AC power sources. Carefully measure "rectifying modules" that turn ac signals into dc signals and adjust the input ac voltages to insure the dc voltages **do not exceed a peak of 26.4 VDC.**
- Provide 110-120 VAC **ONLY** to 115-volt model.

Replacement Parts List

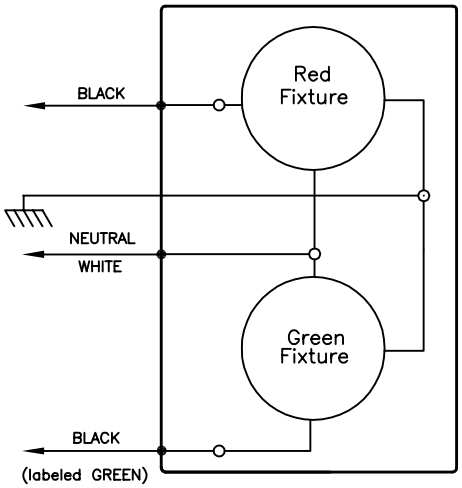
Part #	Incandescent Lamp Models	Part #	LED Models
203011	Red lens w/ housing	A16115R	Red signal assembly, 115 VAC
203012	Green lens w/ housing	A16115G	Green signal assembly, 115 VAC
420705	Lamp, type 25T7, 120 V.	A1612R	Red signal assembly, 12 VDC
420336	Lamp, type 1156, 12 V	A1612G	Green signal assembly, 12 VDC
423036	Lamp, type 2023, 24 V	A1624R	Red signal assembly, 24 VDC
533004	Lamp harness, 120 VAC	A1624G	Green signal assembly, 24 VDC
533003	Lamp harness, 12/24 VDC	813008*	Wall Gasket
203014T*	Yellow Housing, with rear panel	533030*	Flasher, 120 VAC *available separately*
203107T*	Black Housing, with rear panel	163295T*	Flasher, 24 VDC-*available separately*
410403*	½" EMT fitting	163296T*	Flasher, 12 VDC-*available separately*
			*Applies to all models

953063 6/06

S/G

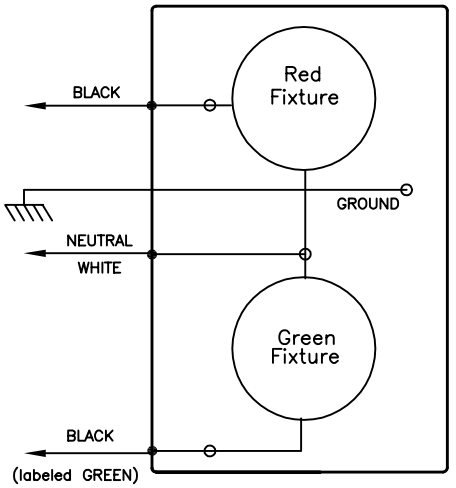
120 VAC MODELS

SG10(B)–115RG
(Stand Alone Drone Unit)
with Incandescent Lamps



Model SG10–115RG MUST be used with a flasher or overheating will occur.

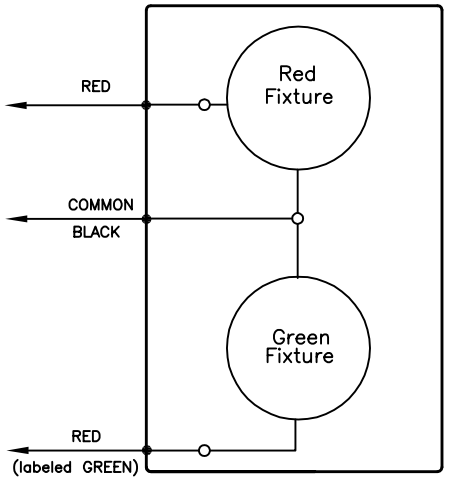
SG10(B)–115RG–LED
(Stand Alone Drone Unit)
with LED Lamps



Model SG10–115RG–LED may be used with or without a flasher.

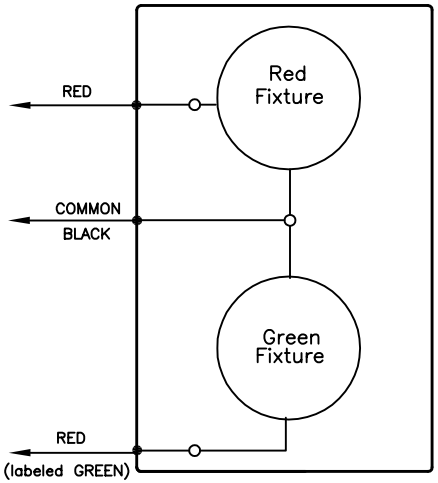
12 and 24 VDC MODELS

SG10(B)–12RG
SG10–24RG
(Stand Alone Drone Units)
with Incandescent Lamps



Model SG10–12RG or –24RG MUST be used with a flasher or overheating will occur.

SG10(B)–12RG–LED
SG10–24RG–LED
(Stand Alone Drone Units)
with LED Lamps

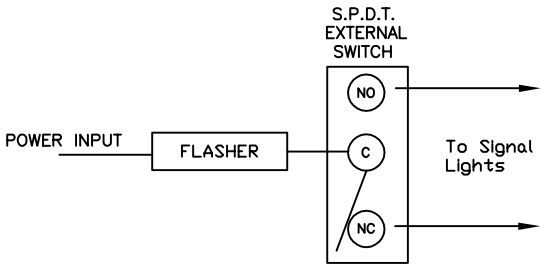


LED Models may be used with or without a flasher.
DO NOT EXCEED peak voltages of 26.4 VDC for 24 v. LED models

TRI LITE

c UL us LISTED 1P23

Customer supplied



Suggested arrangement for external control:
Use NO (Normally Open) or NC (Normally Closed) switch contacts to control RED & GREEN signals as desired. The switch may be activated by external conditions as required.

Room
100
Apparatus Bay

PLYMOVENT®
clean air at work

100.01



REMOVE DIESEL EXHAUST FROM YOUR FIRE STATION



SOURCE CAPTURE

PLYMOVENT SOURCE CAPTURE SYSTEMS: AN INDUSTRY STANDARD

At source capture of airborne particles, prior to their spreading in the local environment, is the most efficient method to achieve a safe and healthy working environment. It minimizes the amount of air that needs to be removed, thereby reducing the total investment in air handling equipment and also reducing the total energy consumption.

A key component to our system is the sealed nozzle design, in both a pneumatic and magnetic version: the Grabber®. With the Grabber®, the Plymovent system can provide a virtually 100% source capture performance hereby meeting various regulations.

The Grabber® connects to the tail pipe, capturing and eliminating virtually all exhaust fumes, plus it is simple to use:

- For the magnetic version just attach it to the tail pipe and you are done. We call this the Plymovent "click and seal" principle.
- For the pneumatic version just attach it to the tailpipe, push the fill valve and quickly ensure a positive seal around any size tailpipe; capturing and eliminating the chance that dangerous exhaust fumes will escape into your station.



BACK IN SYSTEMS

KEY ADVANTAGES SBT SYSTEM:

- Models handle up to 12 metres deep back-in bays
- Auto-disconnect at the exit door
- Attach the Grabber® from the vertical position
- Aluminium track: light-weight and strong
- End stops with rubber shock absorbers take up kinetic energy from trolleys
- Adjustable release points depending on the speed of the vehicle
- Pre-fitted yellow/black extraction hose
- Virtually 100% source capture through a unique automatic Grabber® nozzle; available in sizes to fit all emergency response vehicle tailpipe sizes
- Automatic start- stop of fan by an exhaust sensor
- Safety disconnect coupling; fail safe system, easily re-connectable
- Suitable for existing fire stations and new design-built stations

The Sliding Balancer Track System (SBT) has set the standard for vehicle emission control for fire and emergency response vehicles around the world.

The SBT system is the preferred system for back-in apparatus bays, and is designed to connect to any motor vehicle tailpipe while capturing virtually 100% of the exhaust emissions. The SBT system is used in single, back-in bay applications where the vehicle tailpipe is within 12 metres of the door. It is a fully automatic system, including fan activation and system disconnect from the exiting vehicle. The SBT system is fully code compliant, and there is a one-step connection to the system as a vehicle enters the station. If you are looking for an exhaust removal system that you can connect at the door before backing in and have it automatically disconnect when you leave, the SBT is right for your application.





IMPORTANT FACTS...

...ABOUT DIESEL EXHAUST

- The EPA has determined that the sixe of the average diesel exhaust particle size is 0.2 microns. These particles are typically not visible to the human eye.
- Diesel exhaust particles are often too small to be captured by onboard filters. Toxic gases are not captured by particulate filters, and only partially by activated carbon filters. The Plymovent source capture system captures these particles and gases before they enter the fire station, and expels them to the outside.
- As a fire truck exits the station, diesel exhaust is expelled with force. The Plymovent source capture system prevents it from being spread throughout the fire station* including the living quarters.
- The Plymovent source capture system captures diesel exhaust before it enters the fire station, thereby preventing diesel exhaust from entering the breathing zone.
- Diesel exhaust particles and gases are suspended in the air, so exposure to this pollutant occurs whenever a person breathes air that contains these substances.
- Like all fuel-burning equipment, diesel exhaust contains nitrogen oxides. Nitrogen oxides can damage lung tissue, lower the body's resistance to respiratory infection and worsen chronic lung diseases, such as asthma.
- Plymovent source capture systems provide a sealed nozzle system which have been proven in over 50.000 installations over the past 30 years. **

* The operation of exhaust extraction systems can be affected by various factors including proper deesign of the system, operating procedures, and service and maintenance. Exposure levels should be checked upon installation and periodically thereafter to ensure that they fall within applicable regulations and exposure limit values.

** Plymovent systems are made code compliant, please ensure the system is properly designed, operated, serviced and maintained.

WHY CONTROL EQUIPMENT:

FINANCIAL REASONS

A fully automatic controlled system will enable you to substantially lower your use of electricity and overall energy consumption. This creates a solid and viable investment for your station.

ENVIRONMENTAL REASONS

The control equipment which we have in our product range enables an on-demand use of the system. The result of installing our control equipment is a reduction of electricity consumption and lower heating cost due to the fact that the system is only used when needed. Obviously lower energy consumption will also have a positive effect on the global environment.

Investing in a Plymovent system will not only save you money by reducing your use of energy, it will also enable you to help reducing global warming.

ADVANCE TABCO®
SMART FABRICATION™

STAINLESS STEEL
HAND SINKS NSF
STANDARD

SPLASH MOUNTED FAUCETS



7-PS-68

Item #: _____ ***Qty #:*** _____

Model #: _____

Project #: _____

Keyhole Bracket for easier installation and greater stability.



FEATURES:

One piece **Deep Drawn** sink bowl design.

Sink bowl is 10" x 14" x 5". (

7-PS-45 sink bowl size is 16" x 20" x 8"

7-PS-49 sink bowl size is 16" x 14" x 8"

All sink bowls have a large liberal radii with a minimum dimension of 2" and are rectangular in design for increased capacity.

Keyhole wall mount bracket.

Stainless steel basket drain 1-1/2" IPS.

Specific Features:

7-PS-50 features lever operated drain and built-in overflow with plastic overflow tube and spring clamps. P-Trap is 1 1/2".

7-PS-54 features P-Trap only. P-Trap is 1 1/2".

7-PS-20 4" O.C. deck mounted centerset faucet furnished with aerator.

7-PS-50 & 7-PS-60 4" O.C. splash mounted gooseneck faucet, chrome plated & furnished with aerator.

7-PS-45 Same as above plus 2 Support Brackets (Hardware Included).

7-PS-67 features lever operated drain.

7-PS-68 4" O.C. splash mounted gooseneck faucet with Wrist Handles, chrome plated & furnished with aerator.

CONSTRUCTION:

All TIG welded.

Welded areas blended to match adjacent surfaces and to a satin finish.

Die formed Countertop Edge with a No-Drip offset.

One sheet of stainless steel - No Seams.

MATERIAL:

Heavy gauge type 304 series stainless steel.

Wall mounting bracket is Galvanized and of offset design.

All fittings are brass / chrome plated unless otherwise indicated.

MECHANICAL:

Faucet supply is 1/2" IPS male thread hot and cold.

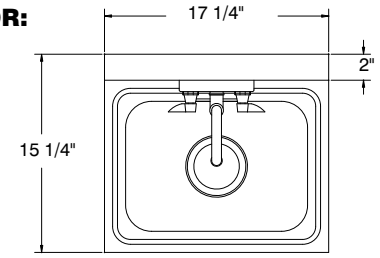
Standard Faucet conforms to NSF 61 Standard 9. An optional faucet upgrade is required for compliance to AB 1953 Standards.

For Replacement Faucets & Upgrades, Drains & Accessories visit our website at www.advancetabco.com

DIMENSIONS and SPECIFICATIONS

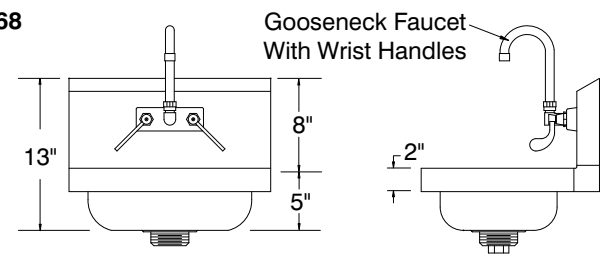
TOL Overall: ± .500" Interior: ± .250" **FITTINGS SUPPLIED AS SHOWN** **ALL DIMENSIONS ARE TYPICAL**

TOP VIEW FOR:
7-PS-50
7-PS-54
7-PS-60
7-PS-68
7-PS-70



Sink Bowl 10" x 14" x 5"

7-PS-68



13 lbs.

ADVANCE TABCO®
SMART FABRICATION™

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

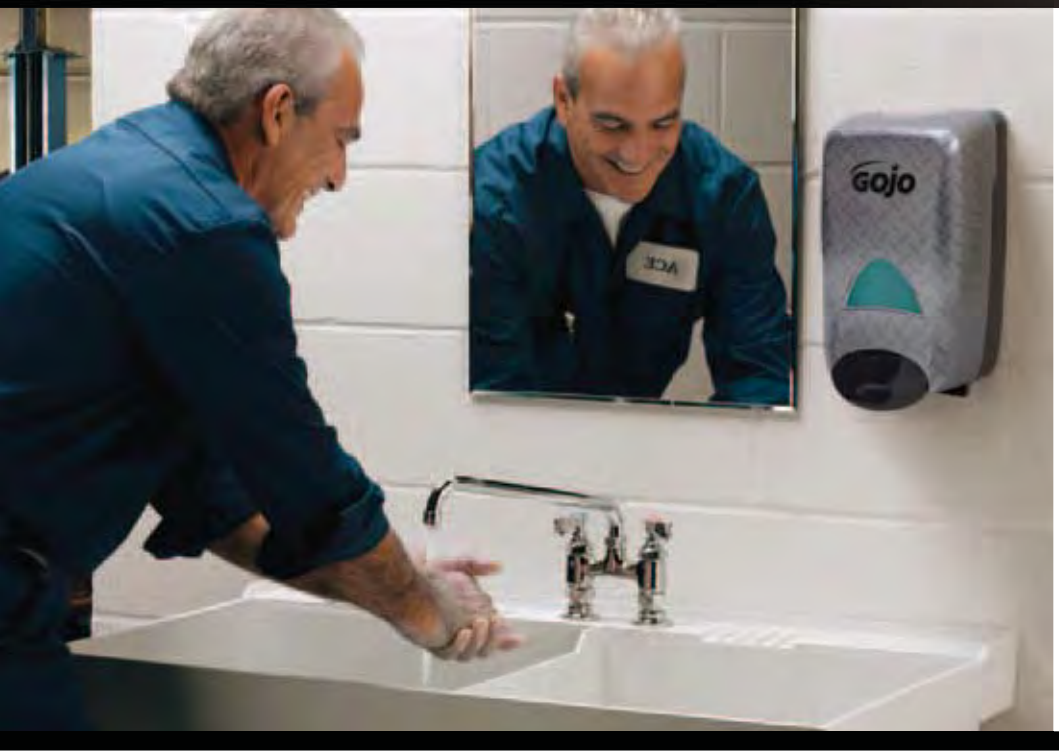
© ADVANCE TABCO, OCTOBER 2011



GOJO®

Dispensing systems
so ***curiously cool***…

People *can't wait* to use them!



And, naturally, the more people use them, the more likely they are to *keep their hands clean and healthy*. That can translate into:

- **Less skin disease**
- **Less spreading of illness-causing germs**
- **Less absenteeism**… which can have a profound impact on the bottom line of your business!

Dirty hands are the **pickpockets** of an otherwise healthy business.



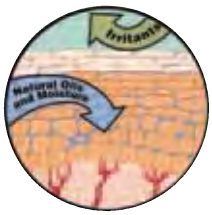
Skin disease is the leading cause of occupational illness.[1] Direct medical expenses for contact dermatitis alone are **more than $1.4 billion**. And productivity losses are estimated to **add another $500 million** on top of that.[2] When your employees suffer with skin disease, your business winds up paying the price a number of ways:

- Lost work time and absenteeism
- Lower productivity and efficiency
- Unskilled temporary labor & overtime
- Higher insurance premiums and Worker's Compensation costs

Maintaining skin's natural protectiveness.



Dry, damaged skin isn't just a cosmetic issue. It's a symptom indicating that the skin's natural protective barrier has been compromised. This permits natural oils and moisture to escape and lets outside irritants in, possibly entering the bloodstream and leading to infection.



Heathy, well-conditioned skin retains more moisture and is less likely to absorb and react to incidental exposure to irritants. Our strategy is to use the mildest, most effective hand cleaner for each application, maintaining as much of the skin's natural barrier function as possible.

It's a DIRTY JOB, but someone has to do it.

Since all dirt is *not* created equal, you need options.



KIND OF DIRTY?

Get GOJO® DPX™.

With continued advancements in technology and processes, work environments are getting cleaner. But when hands do get dirty, workers want to remove light and medium soils without using overly aggressive solvents and abrasives. **Now they can.** With GOJO ECO SOY™ Foaming Hand Cleaner in the cool new DPX dispenser. The grit-free foaming action gently releases dirt and moderate soils from skin.

GOJO DPX Foam Soap Dispenser with GOJO ECO SOY Foaming Hand Cleaner

- Ideal for distribution, warehouse, labs, restrooms, and production areas
- Diamond-plate dispenser design connects with workers
- Cleaning powered by soy, a renewable, natural resource
- Invigorating fresh scent



REALLY DIRTY?

Get GOJO PRO™ TDX™.

Hands that get really dirty need an effective cleaner that won't tear up the skin. Like GOJO Cherry Gel Pumice Hand Cleaner in the upgraded PRO TDX dispenser. Gel-style hand cleaner quickly cleans heavy dirt, grease and oil. The advanced gel technology encapsulates pumice scrubbers and contains skin conditioners for a unique pH-balanced wash experience that leaves skin clean and feeling refreshed.

GOJO PRO TDX 2000 Dispenser with GOJO Cherry Gel Pumice Hand Cleaner

- Ideal for locker rooms, production, tool crib/rooms, clean-up sinks, maintenance areas
- Modern design with diamond-plate effect looks great in tough soils environments
- Gel formula clings to hands for easy cleaning
- Pleasant cherry fragrance eliminates soil odors without any lingering scent.





Healthy hands for the lives you touch.

GOJO®, the #1 brand of heavy duty hand cleaner.[3]

Description	Size	Order No.	Use Dispenser
PRO™ TDX™ 5000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	5000 mL	7590-02	7500-01
PRO TDX 2000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	2000 mL	7290-04	7200-01
GOJO Cherry Gel Pumice Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	7290-D2	—
GOJO DPX™ Foam Soap System			
GOJO ECO SOY™ Foaming Hand Cleaner Refill	2000 mL	5268-03	5254-06
GOJO ECO SOY Foaming Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	5268-D2	—

www.GOJO.com

For more information on our complete line of skin care products for soil removal, general cleansing, skin conditioning and sanitizing, visit www.GOJO.com or contact GOJO Customer Service at 1-800-321-9647.

1. Bureau of Labor Statistics, U.S. Department of Labor, December 2004.
2. The Lewin Group, Inc. 2005. The Burden of Skin Diseases. Prepared for The Society for Investigative Dermatology and The Academy of Dermatology Association.
3. Results based on Feb/March 2010 survey, administered by a third party where GOJO was not identified as sponsor of the research. Survey of 500 employees in U.S. and Canada in industries where tough soils are encountered. Survey respondents mentioned GOJO more than any other hand cleaner brand in unaided awareness.

Visit our website: www.GOJO.com

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LIT-TS-SYS (05/2011)

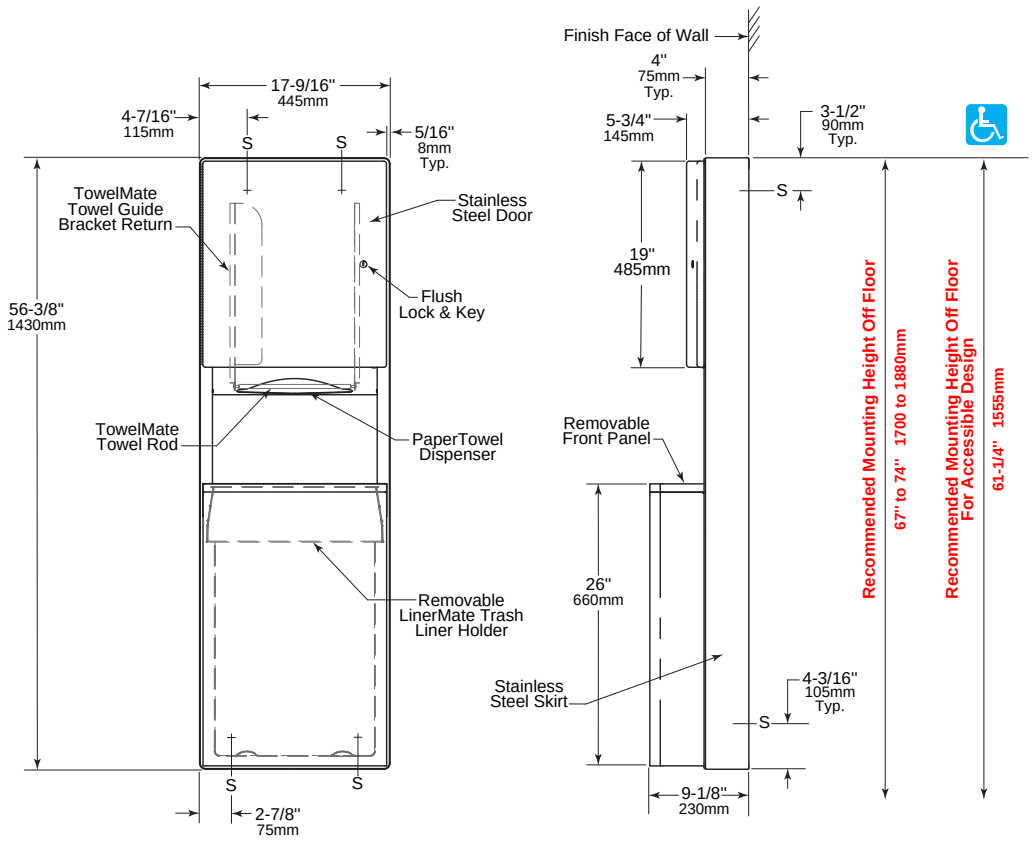
BOBRICK

Technical Data

ConturaSeries® SURFACE-MOUNTED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE

B-43949





MATERIALS:

Cabinet — 18-8, Type-304, 22-gauge (0.8mm) stainless steel. All-welded construction. Exposed surfaces have satin-finish.

Skirt — 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin finish. Radius on corners complement corners and edges of flange, door, and waste receptacle.

Flange — 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin-finish. Drawn, one-piece, seamless construction. Radius on corners and return edges complement corners and edges of door, skirt, and waste receptacle.

Door — 18-8, Type-304, 18-gauge (1.2mm) stainless steel with satin-finish. Drawn, one-piece, seamless construction. Front of door has same degree of arc as front of waste receptacle and other Bobrick ConturaSeries washroom accessories. Radius on corners and edges of door match side edges of waste receptacle and other ConturaSeries accessories. Secured to cabinet with a full-length stainless steel piano-hinge. Equipped with a stainless steel cable door-swing limiter and flush tumbler lock keyed like other Bobrick washroom accessories.

Paper Towel Dispenser — 18-8, Type-304, 22-gauge (0.8mm) stainless steel with satin-finish. Cabinet inside equipped with 90° return towel guide angle to prevent paper towels from falling forward out when door is opened for servicing. Rounded towel tray has hemmed opening to dispense paper towels without tearing. Unit equipped with TowelMate consisting of a 90° return towel guide angle inside cabinet to prevent paper towels from falling forward out when door is opened for servicing and a Nylon Rod across the center of the towel tray to dispense paper towels one at a time. Waste receptacle shall have a formed, 18-gauge (1.2mm), one-piece, seamless, removable front panel with top edge hemmed. Capacity: 600 C-fold or 800 multifold paper towels.

TowelMate® Towel Rod Assembly — Consisting of a round Nylon Rod and (2) stainless steel Rod Screws for attachment, is field replaceable. Stainless steel Stop Screws (2) lock TowelMate Towel Rod assembly in place.

To retrofit TowelMate into existing installed units manufactured prior to April 2010, order TowelMate Accessory Bobrick Part

continued . . .

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet.
The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions.

Revised 11/15/18 Printed in U.S.A.
© 2018 by Bobrick Washroom Equipment, Inc.

No. 3944-130

Waste Receptacle — 18-8, Type-304, 18-gauge (1.2mm) stainless steel with satin-finish. Formed, one-piece, seamless construction. Removable front has same degree of arc as front of paper towel dispenser door and other Bobrick ConturaSeries washroom accessories. Top edge hemmed for safe handling. Radius on side edges of waste receptacle match corners and edges of door and other ConturaSeries accessories. Secured to cabinet with two keyholes over studs on bottom and two tamper-resistant setscrews on top. Capacity: 15.0-gal. (56.8-L).

LinerMate® Bag Holder — Unit equipped with LinerMate trash liner holder fabricated with molded plastic trash liner holder sleeve and a 20-gauge (0.91mm) stainless steel, U-shaped support strap; riveted construction. Trash liner holder shall have an arc at front and same shape as inside of waste receptacle area. LinerMate facilitates installation and removal of disposable trash liners and retains liner inside waste receptacle.

To retrofit LinerMate into existing installed units manufactured prior to December 2009, order LinerMate Accessory Bobrick Part No. 43944-134

OPERATION:

Paper towel dispenser will dispense C-fold or multifold paper towels without adjustment or use of adapters. Cable door-swing limiter prevents damage to washroom accessories and walls. Load paper in towel tray, and then pull one sheet of paper towel over the TowelMate towel rod and out to conceal rod and start dispense. Front of waste receptacle panel is removable for cleaning cabinet interior. To insert disposable trash liner, lift LinerMate bag holder up and forward and rest over edge of waste receptacle front panel with the bottom notches of LinerMate engaged on top front edge of receptacle. Place disposable trash liner inside LinerMate and fold disposable trash liner over LinerMate sleeve. Tie a knot in the corner of the disposable trash liner, then place LinerMate with disposable trash liner back into receptacle. To empty, gather disposable trash liner from LinerMate trash liner holder sleeve and lift bag up. Front of waste receptacle panel is removable for cleaning cabinet interior.

INSTALLATION:

Mount unit on wall with #8 x 1-1/4" (4.2 x 32mm) sheet-metal screws (not furnished) at points indicated by an *S*. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 1/8" (3mm) toggle bolts or expansion bolts. If unit projects above top of wainscot, provide aluminum channel or other filler to eliminate gap between cabinet and finish face of wall.

SPECIFICATION:

Surface-mounted paper towel dispenser and waste receptacle shall be Type-304 stainless steel with all-welded construction; exposed surfaces shall have satin-finish. Front of paper towel dispenser door and waste receptacle shall have same degree of arc and match other Bobrick ConturaSeries accessories in the washroom. Radius on corners and edges of flange, skirt, door, and waste receptacle shall complement other Bobrick ConturaSeries washroom accessories. Flange shall be drawn, one-piece, seamless construction. Paper towel dispenser door shall be drawn, 18-gauge (1.2mm), one-piece, seamless construction; secured to cabinet with a full-length stainless steel piano-hinge; and equipped with a stainless steel cable door swing limiter and flush tumbler lock keyed like other Bobrick washroom accessories. Paper towel dispenser shall dispense 600 C-fold or 800 multifold paper towels. Unit equipped with TowelMate consisting of a 90° return towel guide angle inside cabinet to prevent paper towels from falling forward out when door is opened for servicing and a Nylon Rod across the center of the towel tray to dispense paper towels one at a time. Waste receptacle shall have a formed, 18-gauge (1.2mm), one-piece, seamless, removable front panel with top edge hemmed. Unit equipped with LinerMate trash liner holder fabricated with molded plastic trash liner holder sleeve and a 20-gauge (0.91mm) stainless steel, U-shaped support strap; riveted construction. Trash liner holder shall have an arc at front and same shape as inside of waste receptacle area. LinerMate facilitates installation and removal of disposable trash liners and retains liner inside waste receptacle. Capacity of waste receptacle shall be 15.0-gal. (56.8-L).

Surface-Mounted Paper Towel Dispenser And Waste Receptacle shall be Model B-43949 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet.
The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions.

B-43949 r11/15/18 Printed in U.S.A.
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G1643 100.05 Emergency Showers

☐ **G1643** Emergency Shower, Horizontally Mounted, Plastic Shower Head

☐ **G1643SSH** Emergency Shower, Horizontally Mounted, Stainless Steel Shower Head

Application: Emergency shower for horizontal mounting.

Shower Head: 10” diameter. Shower head is orange ABS plastic (G1643) or stainless steel (G1643SSH).

Valve: 1” IPS chrome plated brass stay-open ball valve. Valve is US-made with chrome plated brass ball and Teflon® seals. Furnished with stainless steel actuating arm and 29” stainless steel pull rod.

Pipe and Fittings: 1” IPS galvanized steel nipple with orange ABS plastic elbow (G1643) or galvanized street elbow (G1643SSH).

Supply: 1” NPT female inlet.

Sign: ANSI-compliant identification sign.



Pull rod rotated 90° for viewing.

Available Options

☐ **PCC** All-polished chrome plated brass construction.

☐ **GRN** Safety green ABS plastic shower head.

☐ **YEL** Safety yellow ABS plastic shower head.

☐ **PCH** Polished chrome plated cast brass shower head.

☐ **FC20** Regulates shower flow rate to 20 GPM.

☐ **SC** Self-closing ball valve.
Note: Emergency showers with self-closing valves do not comply with ANSI Z358.1 - 2004.

☐ **AP280-100 Electric Light and Alarm Horn**
Flashing light and horn serve to summon assistance when shower is activated.

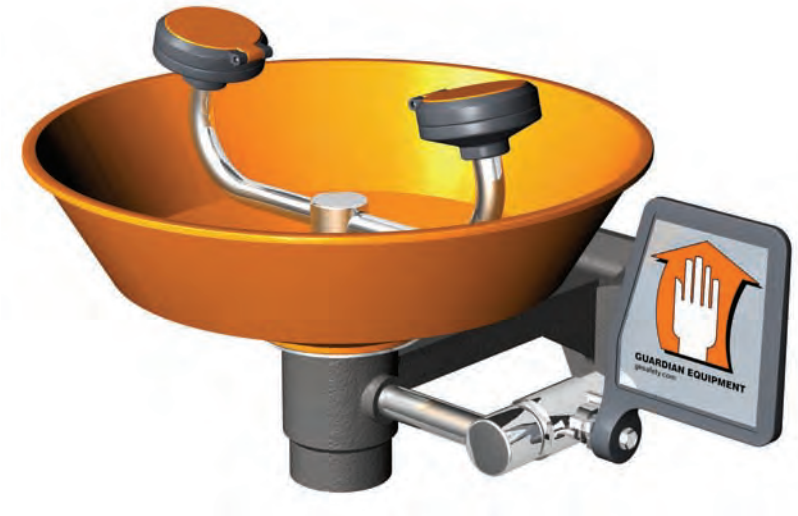
☐ **TMV** G3800 thermostatic mixing valve precisely blends hot and cold water to deliver warm (tepid) water as provided by ANSI Z358.1-2004. Refer to “Tempering Units” section for complete technical and product selection information.

☐ **AP250-015 Modesty Curtain**
Modesty curtain for horizontal shower installation.

GUARDIAN EQUIPMENT
660 North Union Street • Chicago, IL 60610 • 312 733 2626 • gesafety.com

ETL Listed 101496. Units have been tested to and comply with ANSI Z358.1 - 2004

☐ **G1750P** Eye/Face Wash, Wall Mounted, Plastic Bowl



Application: Eye/face wash for wall mounting. Two large FS-Plus™ spray-type outlet heads deliver a flood of water for rinsing eyes and face.

Spray Head Assembly: Two FS-Plus™ spray heads. Each head has a "flip top" dust cover, internal flow control and filter to remove impurities from the water flow.

Valve: 1/2" IPS chrome plated brass stay-open ball valve. Valve is US-made with chrome plated brass ball and Teflon® seals.

Bowl: 11 1/2" diameter orange ABS plastic.

Mounting: Heavy duty cast aluminum wall bracket with corrosion resistant powder coated finish.

Supply: 1/2" NPT female inlet.

Waste: 1 1/4" NPT female outlet.

Sign: ANSI-compliant identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

Available Options

☐ **DC** Stainless steel dust cover for each spray head.

☐ **GRN** Green ABS plastic bowl.

☐ **YEL** Yellow ABS plastic bowl.

☐ **HS** Auxiliary hand-held drench hose for rinsing eyes, face or body.

☐ **SC** Self-closing ball valve.
Note: Eye/face washes with self-closing valves do not comply with ANSI Z358.1 - 2004.

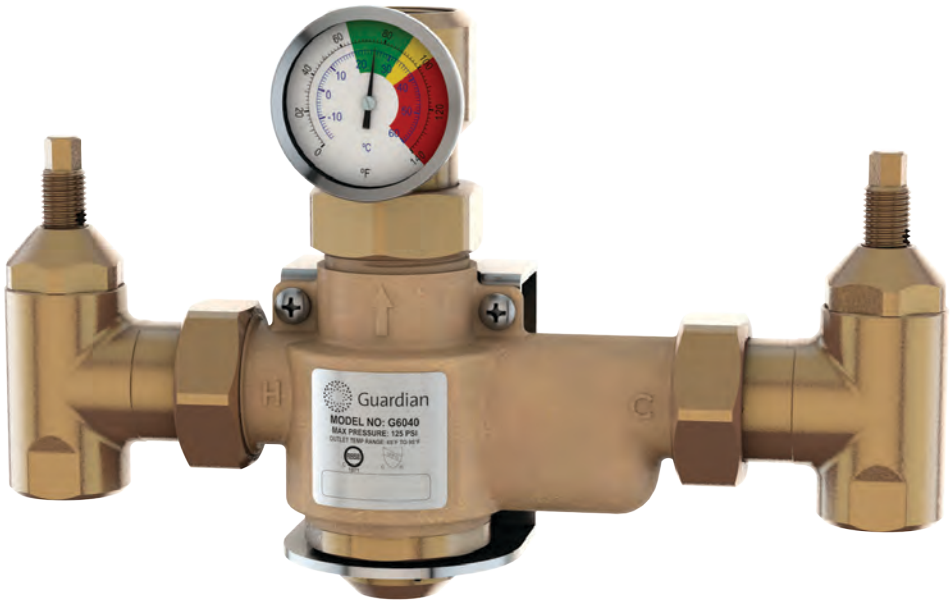
☐ **T** Chrome plated brass tailpiece and trap with 1 1/2" IPS waste connection.

☐ **TP** 1 1/2" OD Chrome plated brass tailpiece.

☐ **TMV** G3600 thermostatic mixing valve precisely blends hot and cold water to deliver warm (tepid) water as provided by ANSI Z358.1-2004. Refer to "Tempering Units" section for complete technical and product selection information.

ETL Listed 101496. Units have been tested to and comply with ANSI Z358.1 - 2004

G6040 Thermostatic Mixing Valve, 50 Gallon/189 Liter Capacity



Application: Thermostatic mixing valve to blend hot and cold water to deliver tepid water. Valve has flow capacity of 50 gallons (189 liters) per minute at 30 PSI (2.1 bar) pressure drop. Valve can be used to supply emergency shower or combination safety station. Depending on water supply size and pressure, valve can supply multiple units.

Mounting: Valve inlets can be positioned on top, back or bottom of valve. Outlet can be on top or bottom. Valve can be configured in the field for any mounting position. Furnished with heavy duty stainless steel mounting bracket.

Temperature Control: Valve has precision thermal actuator that senses incoming water temperature and automatically blends water to preset temperature. Valve is factory set to deliver 85°F (29°C) water. Temperature of tepid water can be adjusted as required and then locked. Furnished with dial temperature gauge as standard to monitor temperature of tepid water.

Cold Water Bypass: If the supply of hot water is restricted or interrupted, an internal bypass allows the valve to deliver cold water only. In bypass mode, the valve delivers 38 GPM (144 L/min) at 30 PSI (2.1 bar) pressure drop.

Hot Water Shutoff: Valve has internal PTFE valve seat. If the supply of cold water is interrupted, the valve will close completely and *not deliver any water at all,* eliminating any possibility of scalding.

Flow Capacity: Refer to table below for flow capacity of valve at specified pressure drops.

Checkstops/Filters: Each inlet has a lockable shutoff valve for maintenance, internal check valve to prevent backflow and stainless steel basket filter to remove debris from the water flow.

Construction: Valve meets the requirements of the U.S. Safe Drinking Water Act as lead-free.

Inlet/Outlet: 1" NPT female inlets and 1-1/4" NPT female outlet as standard.

Quality Assurance: Valve is ASSE certified under ANSI/ASSE 1071. Valve is fully assembled and factory tested prior to shipment.

Water Pressure/Temperature Requirements

Supply Pressure: Maximum incoming water pressure is 125 PSI (8.6 bar). Pressure of hot and cold water supplies can vary up to 25% and still deliver the flow and temperature required by ANSI/ASSE 1071.

Hot Water Supply Temperature: Incoming hot water temperature range is 120° - 180°F (49° - 82°C). Guardian recommends that the hot water temperature not exceed 140°F (60°C).

Cold Water Supply Temperature: Incoming cold water temperature range is 40° - 70°F (4° - 21°C). Cold water temperature must be at least 10°F (5.6°C) less than the temperature of the delivered tepid water.

Tepid Water Temperature: Temperature of tepid water is adjustable within a range of 65° - 95°F (18° - 35°C) and then locks in position. High temperature limit stop is set at 90°F (32°C) to prevent misadjustment.

G6040 Thermostatic Mixing Valve, 50 Gallon/189 Liter Capacity

Pressure Drop (PSI)	1	5	10	15	20	25	30	35	40
Flow Rate (GPM)	0.5	17	28	34	41	46	50	55	59
Bypass Flow Rate (GPM)	0.5	13	20	25	30	34	38	41	45

Pressure Drop (Bar)	0.1	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8
Flow Rate (L/min)	2	64	106	129	155	174	189	208	223
Bypass Flow Rate (L/min)	2	49	76	95	114	129	144	155	170

Ordering Information

Models

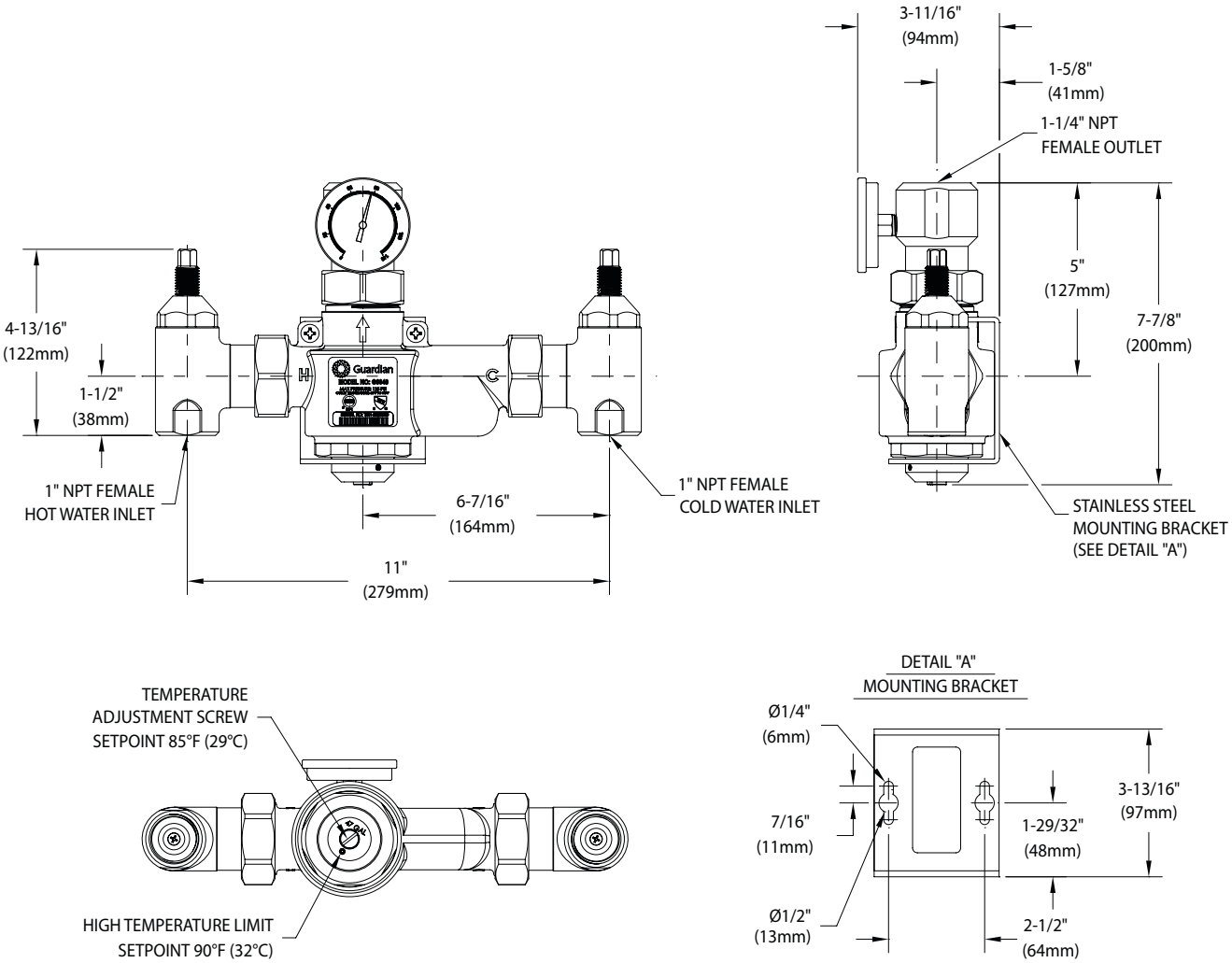
☐	G6040	Thermostatic Mixing Valve, 50 Gallon/189 Liter Capacity
☐	G6041-XXX	G6040 valve installed in surface mounted powder coated steel cabinet
☐	G6042-XXX	G6040 valve installed in surface mounted stainless steel cabinet
☐	G6043-XXX	G6040 valve installed in recess mounted powder coated steel cabinet
☐	G6044-XXX	G6040 valve installed in recess mounted stainless steel cabinet

Available Options

☐	Finish	Chrome plated finish in place of raw brass (add suffix “CP”)
☐	Inlet/Outlet Threads	G1 female thread on inlets and G1-1/4 female thread on outlet (add suffix “G”)
☐	Temperature Gauges	Temperature gauges on hot and cold water inlets (add suffix “IT”)
☐	Pressure Gauges	Pressure gauges on hot and cold water inlets (add suffix “IP”)
☐	Temperature/Pressure Gauges	Temperature and pressure gauges on hot and cold water inlets (add suffix “ITP”)

Note: *Installation of temperature and/or pressure gauges will change rough-in dimensions of valve. Contact factory for catalog drawing.*

G6040 Thermostatic Mixing Valve, 50 Gallon/189 Liter Capacity



Notes:

1. ANSI Z358.1-2014 states that the water temperature delivered by emergency equipment should be “tepid”. Tepid is defined as 60°F - 100°F (16°C - 38°C). However, in circumstances where a chemical reaction can be accelerated by water temperature, a medical professional should be consulted to determine the optimum water temperature for the application.
2. For thermostatic mixing valves to deliver the required water temperature and volume, the system must be sized correctly. Please refer to the flow capacity, pressure and temperature requirements herein when designing the tepid water system.
3. Valve is factory set to deliver 85°F (29°C) tepid water. Depending on pressure and temperature of the incoming water supplies, this setting may require adjustment in the field. The adjustment screw is locked in position after adjusting.
4. Thermostatic mixing valves, like all emergency equipment, must be installed in accordance with the manufacturer’s instructions and maintained on a regular basis. Per ANSI Z358.1-2014, all emergency equipment should be activated weekly and inspected at least annually. Thermostatic mixing valves should be treated the same.
5. Per ANSI Z358.1-2014, plumbed emergency equipment must be connected to a potable water supply. This valve meets the requirements of the U.S. Safe Drinking Water Act as lead-free and is safe for use with potable water.
6. This valve is supplied with shutoff valves. Per ANSI Z358.1-2014, if shutoff valves are installed on the water supply to emergency equipment, the valves must be lockable to prevent unauthorized shutoff. Accordingly, each shutoff valve stem on this valve has a hole for installing a lock to secure the stem in the open position.

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

Due to continuing product improvement, the information contained in this document is subject to change without notice. All dimensions are ± 1/4” (6mm). Rev. 022420

Series **N800**

- **Fuel Dispensing** (Consult Factory)
- **Waste Oil Evacuation • Air/Water**

To handle 3/4" or 1" I.D. hose.

- Narrow frame and compact mounting base.
- Non-sparking ratchet assembly.
- Declutching arbor to prevent damage from reverse winding.
- Standard inlet: 90° balanced pressure swivel joint, 1" female NPT threads.
- Standard outlet: 1" female NPT threads.
- Standard pressures to 2000 psi (138 bar), available up to 6000 psi (414 bar) – must specify.
- Temperatures from -40° F to +400° F (-40° C to +204° C).
- 4-way roller assembly. SR and VR roller positions: swivel joint is standard on the right. TR roller positions: swivel joint is standard on the left. Other configurations available, must specify.
- Constant tension is available – consult factory.



Optional TR configuration shown

PARTS DRAWING – ISO 81

Model Number	Hose Capacity of Reel feet m			Approx. Weight lb. kg			Standard Roller Assy.	Reel Dimensions*** in. mm							
	I.D. in. mm	3/4 19	1 25	NET	UPS/ FedEx SHIP Wt.	Freight SHIP Wt.		A	B	C	E	F	G	H	X
	O.D. in. mm	1-9/32 33	1-1/2 38												
N816-19-20-10.5J		**25** 8	**15** 5	**75** 34	**83*** 38	**110** 50	N204	**10** 254	**4** 102	**10.5** 267	**20.75** 527	**13** 330	**20** 508	**10.62** 270	**8** 203
†N818-23-24-10.5J		**50†** 15†	**25†** 8†	**87** 39	**–** –	**122** 55	N206	**12** 305	**6** 152	**10.5** 267	**24** 610	**15** 381	**24** 610	**12.62** 321	**10** 254
N816-25-26-10.5B		**60** 18	**35** 11	**96** 44	**–** –	**131** 59	N204	**10** 254	**4** 102	**10.5** 267	**25.5** 648	**13** 330	**26** 660	**13.62** 346	**8** 203
N818-25-26-10.5B		**70** 21	**50** 15	**102** 46	**–** –	**137** 62	N206	**12** 305	**6** 152	**10.5** 267	**25.5** 648	**15** 381	**26** 660	**13.62** 346	**10** 254

Notes:

A hose stop is necessary to keep spring from unwinding.

1. Specifications subject to change.
2. Reel models and capacities shown are for standard drag applications; for vertical lift applications, consult factory.
3. Other sizes, from standard components, available on request.
4. **Finish:** Refer to page 3.
5. **Be sure to check dimensions and weights prior to ordering.**

NOTICE: A flexible connector must be used between the inlet pipe and the inlet swivel joint.

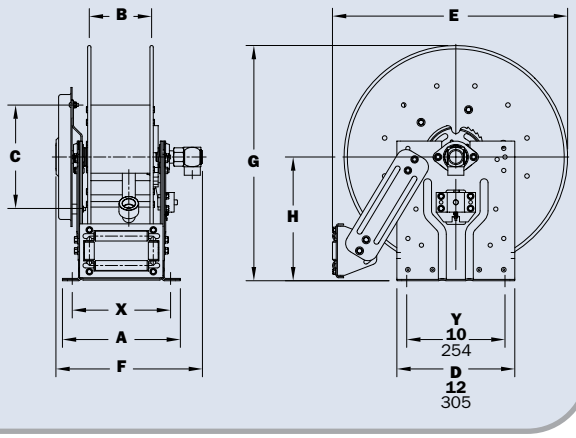
*Dimensional weight may apply when shipped as a parcel package (via FedEx or UPS Ground).

*** X, Y indicate mounting holes. See page 5.

†Capacity based on low pressure air hose only.

Available Roller Positions

SR (STD) **VR** (OPT) **TR** (OPT) **TR** (Wallmount)



Phone: **518-797-3791** | Toll Free: **1-877-467-3357** | FAX: **518-797-3259** | Email: **reels@hannay.com** | **hannay.com**

100.06a

Gilmour

Professional Classic Fireman's Nozzle

Designed for the pros, this watering tool delivers the durability of die-cast zinc construction and comfortable, ergonomic handle for superior comfort and control.



100.06

Specifications

Item #	855032-1001
UPC	0034411029718
Duty	Professional Grade
Material	Zinc
Trigger	Fireman-Style
Type	Professional Grade
Warranty	Lifetime
Weight	1.5 lbs
Dimensions	3.4 × 4.9 × 9.2 in
Warranty	Lifetime
Material Type	Zinc
Duty	Professional Grade
Control Type	Fireman-Style

Red - Green Light

RGL24LY

0.0 (0) Write a Review

LOCATE A DEALER

Add to Wishlist



Dramatically reduces the chance of damage to your door and engine. The light will change from flashing Red to solid Green when the door reaches the full open position, indicating when it is clear to exit.

Find a Part

Features

Safety and Security

Customer Reviews

Write a Review

AVERAGE RATING

There are no reviews for this item

For wiring, see video: https://youtu.be/VLsGIHZWkKk

Hose Reels Cord Reels Cable Reels Retractable Industrial Manufacturer

Power Cord Reels

PC SERIES

AVAILABLE IN: SPRING DRIVEN | ELECTRIC | EZ-COIL®

TWO YEAR 2 WARRANTY — USA MADE + UNMATCHED SUPPORT

COXREELS® PC Series spring driven "Power Cord" reels are heavy duty, industrial grade power sources. They replace tangled extension cords and self-retract to increase safety, productivity and efficiency. Modeled after the P and SH Series, the PC Series are designed for long-lasting, trouble-free performance even under the most demanding conditions.

***PC SERIES** Offers...*

AWG: 10, 12, & 16 Gauge
- ✔ Includes 5' Pigtail & Grounding Plug (Except On Less Hose Models)
- ✔ Heavy Gauge Powder Coated Steel Components Cover
- ✔ Choice Of Electrical Accessories
- ✔ "Super Hub" Dual Axle Support On Models With Size Index #3 & #4

SPRING DRIVEN FEATURES:
- ✔ Auto Rewind Easily Wraps, Stores & Protects Electrical Cord
- ✔ Heavy Gauge Steel Base & Support Post
- ✔ Factory-Matched Cartridge-Style Spring Motor
- ✔ 1" Solid Steel Axle With 1" Lubricated Precision Bearings
- ✔ Guide Arm Adjusts To Wall, Floor & Overhead Positions
- ✔ Multi-Position Lock Ratchet Secures Cord At Desired Length
- ✔ Non-Corrosive Stainless Steel Spring, Pawl & Zinc Plated Ratchet

COXREELS® SIGNATURE FEATURES:
- ✔ Professional Grade Heavy Duty Steel Construction
- ✔ Durable Proprietary CPC™ Powder Coat Process
- ✔ Rolled Edges & Ribbed Discs Provide Strength & Safety
- ✔ Leading 2-Year Manufacturer's Limited Warranty
- ✔ Made In The U.S.A. Sold & Supported Worldwide



REEL SELECTION
▼PC Series

Technical Information Center
▼Reel Dimensions ▼Technical Support Documents

CUSTOMIZE... YOUR REEL FOR MOST APPLICATIONS
✔ Mounting Brackets
✔ Hose Guides
✔ Assemblies & More...
Click Here For More Info

UPGRADE TO COXREELS EZ-COIL
Up To 80% Slower Retraction
✔ Increase Operator Safety
✔ Controlled Retraction
✔ Avoid Personal Injury
✔ Longer Reel Life
Click Here For More Info

Technical Information Center

⚠ - Please review our "Safety First" information page before choosing your reel. Please click here.

***PC SERIES** Offers...*



FOR INDOOR USE ONLY
All models rated at 115 volts, 60 hz single phase only.
*Consult factory with 4- conductor requirements
**When not using specified cord type capacity may vary.

Listed † Recognized ††

CORD & ACCESSORIES

MODEL	ACCESSORY	AWG.	NO. COND.*	CORD FT.	TYPE	VOLT	AMPS.	APRX. LBS.	AVAILABLE IN EZ-COIL	SIZE INDEX
PC13-3516-A†	Single Industrial Receptacle	16 GA.	3	35	SJO	115	13	34	-	1
PC13-5016-A†		16 GA.	3	50	SJO	115	13	36	EZ-COIL	1
PC19-7516-A		16 GA.	3	75	SJO	115	13	60	-	3
PC24-0016-A		16 GA.	3	100	SJO	115	13	73	EZ-COIL	4
PC13-3512-A†		12 GA.	3	35	SJO	115	20	37	-	1

UPGRADE TO EZ-COIL Click Here
HOW TO ORDER? Click Here

CUSTOMIZE... YOUR REEL FOR MOST APPLICATIONS

SWING BRACKET



#15720 - For vertical surface mounting, allows reel to swing 180˚. Powder coated crinkle black 3⁄16" steel.
Weight: 5 lbs.
Maximum reel weight: 70 lbs

PC13-5012-A†		12 GA.	3	50	SJO	115	20	40	-	1
PC19-7512-A		12 GA.	3	75	SJO	115	20	67	-	3
PC24-0012-A		12 GA.	3	100	SJO	115	20	81	EZ-COIL	4
PC13-3512-B†	 Quad "4 Plug "Industrial Receptacle	12 GA.	3	35	SJO	115	20	38	-	1
PC13-5012-B†		12 GA.	3	50	SJO	115	20	41	EZ-COIL	1
PC19-7512-B		12 GA.	3	75	SJO	115	20	68	-	3
PC24-0012-B		12 GA.	3	100	SJO	115	20	84	EZ-COIL	4
PC13-3516-C†	 Fluorescent Tube Light - Shock Absorbing & Shatter Resistant	16 GA.	3	35	SJTO	115	0.3	35	-	1
PC13-5016-C†		16 GA.	3	50	SJTO	115	0.3	37	EZ-COIL	1
PC24-0016-C		16 GA.	3	100	SJTO	115	13	75	EZ-COIL	4
PC13-3516-D†	 Fluorescent Angle Light with Tool Tap Plug	16 GA.	3	35	SJTO	115	13	35	-	1
PC13-5016-D†		16 GA.	3	50	SJTO	115	13	37	EZ-COIL	1
PC24-0016-D		16 GA.	3	100	SJTO	115	13	73	EZ-COIL	4
PC13-3516-E†	 Incandescent Caged Drop Light with Tool Tap Plug	16 GA.	3	35	SJTO	115	13	34	-	1
PC13-5016-E†		16 GA.	3	50	SJTO	115	13	36	EZ-COIL	1
PC19-7516-E		16 GA.	3	75	SJTO	115	13	60	-	3
PC24-0016-E		16 GA.	3	100	SJTO	115	13	73	EZ-COIL	4
PC13-3516-F†	 Duplex G.F.C.I. Metal Industrial Receptical	16 GA.	3	35	SJO	115	13	36	-	1
PC13-5016-F†		16 GA.	3	50	SJO	115	13	38	-	1
PC19-7516-F		16 GA.	3	75	SJO	115	13	60	-	3
PC24-0016-F		16 GA.	3	100	SJO	115	13	73	-	4
PC13-3512-F†		12 GA.	3	35	SJO	115	20	39	-	1
PC13-5012-F†		12 GA.	3	50	SJO	115	20	42	EZ-COIL	1
PC19-7512-F		12 GA.	3	75	SJO	115	20	67	-	3
PC24-0012-F		12 GA.	3	100	SJO	115	20	83	EZ-COIL	4
PC13L-5016††	Less Cord, Less Accessory	16 GA.	3	50**	SJO	115	25	31	-	1
PC19L-7516		16 GA.	3	75**	SJO	115	13	52	-	3
PC24L-0016		16 GA.	3	100**	SJO	115	13	62	-	4
PC13L-5012††		12 GA.	3	50**	SJO	115	25	29	-	1
PC19L-7512		12 GA.	3	75**	SJO	115	25	53	-	3
PC24L-0012		12 GA.	3	100**	SJO	115	25	64	-	4
PC17L-5010††		10 GA.	3	-	-	115	35	49	-	2
PC19-7516-X	With Cord, Less Accessory	16 GA.	3	75	SJO	115	13	60	-	3
PC24-0016-X		16 GA.	3	100	SJO	115	13	71	-	4
PC13-5012-X††		12 GA.	3	50	SJO	115	20	40	-	1
PC19-7512-X		12 GA.	3	75	SJO	115	20	66	-	3
PC24-0012-X		12 GA.	3	100	SJO	115	20	81	-	4
PC17-3510-X††		10 GA.	3	35	SO	115	30	62	-	2
PC17-5010-X††		10 GA.	3	50	SO	115	30	67	-	2

For use with P, SH, MP & HP, EN, PC, P-W & SHW, P-WC, Alumi-Pro Series & EZ versions
Please use #15725 for T, C Series & EZ versions

SWIVEL BRACKET



#15721 - For horizontal surface mounting, ball bearing rotation, allows reel to swivel 345˚. Powder coated crinkle black heavy gauge steel.
Weight: 6 lbs.
Maximum reel weight: 120 lbs

For use with P, SH, MP & HP, EN, PC, P-W & SHW, P-WC, Alumi-Pro, T, C Series & EZ versions

EZ-UP BRACKET



#15723 - Reel easily slides in & out for easy overhead mounting. Use as an alternative to the #MR-1. Must be ordered with #15724 for "I" or "H" beam installations.
Weight: 6.5 lbs.
Maximum reel weight: 70 lbs

For use with P, SH, MP & HP, EN, PC, P-W & SHW, P-WC, Alumi-Pro Series & EZ versions

EZ-UP "I" OR "H" BEAM ADAPTOR



#15724 - Must be ordered with PART #15723. Powder coated crinkle black, all steel construction.
Weight: 5 lbs.
Maximum reel weight: 70 lbs

For use with P, SH, MP & HP, EN, PC, P-W & SHW, P-WC, Alumi-Pro Series & EZ versions

MOUNTING BRACKET



#MR-1 - For overhead mounting, fits 3" to 81⁄2" flange on "I" or "H" beam. Powder coated crinkle black 3⁄16" bent steel.
Weight: 13 lbs.
Maximum reel weight: 120 lbs

For use with P, SH, MP & HP, EN, PC, P-W & SHW, P-WC, Alumi-Pro Series & EZ versions
Please use #MRT-1 for T, C Series & EZ versions

AVAILABLE ACCESSORIES

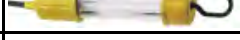
SINGLE INDUSTRIAL RECEPTACLE - SUFFIX "A"



QUAD "4 PLUG" INDUSTRIAL RECEPTACLE - SUFFIX "B"



FLUORESCENT TUBE LIGHT - SUFFIX "C" - Shock absorbing & shatter resistant.



FLUORESCENT ANGLE LIGHT WITH TOOL TAP PLUG - SUFFIX "D"



CAGED INCANDESCENT DROPLIGHT WITH TOOL TAP PLUG - SUFFIX "E"

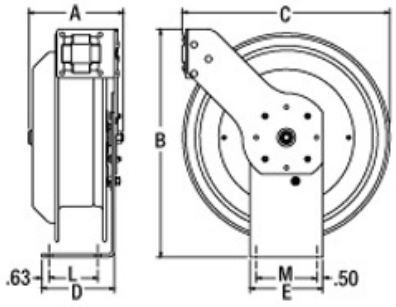


DUPLEX G.F.C.I. METAL INDUSTRIAL RECEPTACLE - SUFFIX "F"



REEL DIMENSIONS

SIZE INDEX	A	B	C	D	E	MOUNT L-M
1	8-1⁄2”	14-1⁄2”	13-3⁄4”	5”	6”	3”- 5”
2	11”	18-1⁄4”	17-1⁄4”	6”	6”	4”- 5”
3	9-3⁄4”	21”	19-5⁄8”	6”	6”	4”- 5”
4	9-3⁄4”	25-1⁄4”	23”	6”	6”	4”- 5”



TECHNICAL SUPPORT DOCUMENTS



PC Series

- Product Manual
- PC13 Exploded Drawings
- PC17 Exploded Drawings
- PC19 Exploded Drawings
- PC24 Exploded Drawings

To Top

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COXREELS... *Your Reel Source Since 1923*

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info@coxreels.com • 6720 S. Clementine Ct., Tempe, AZ 85283

I-Grips for Insulated Cables

Kellems® I-Grips are made of high strength, plastic coated galvanized steel strand. They are offered in six sizes to fit all cable diameters used with Hubbell Insulgrip® Kellems I-Grips will control cable arc-of-bend and reduce high pull tensions from being transmitted to the wiring terminals.

IMPORTANT:
Read all safety and technical data relating to this product.

Refer to pages V-61 through V-68.



Application

Kellems® I-Grips will fit 2, 3, 4 and 5 wire Hubbell Insulgrip® plugs and connector bodies. The eye tabs fit under the nylon cord clamp and the screws slide through the eyelets, securing the grip in place.

I-Grips can be used on any Insulgrip cord set which requires cable, arc-of-bend control or heavy duty strain relief. Cord sets used at in-door construction sites or for plant maintenance jobs are examples.

These grips are for indoor use only.

Benefits

- Easily attached to Insulgrip plugs and connector bodies
- Controls cable arc-of-bend
- Provides heavy-duty strain relief
- Fits all sizes



I-Grips

Cable Diameter Range Inches (cm)	E Inches (cm)	M Inches (cm)	Catalog Number
.32"-.43" (.81-1.09)	1.25" (3.17)	4" (10.16)	**07310001**
.43"-.56" (1.09-1.42)	1.25" (3.17)	4.75" (12.06)	**07310002**
.56"-.73" (1.42-1.85)	1.50" (3.81)	6" (15.24)	**07310003**
.73"-.85" (1.85-2.16)	1.50" (3.81)	6.5" (16.51)	**07310004**
.85"-1.00" (2.16-2.54)	1.50" (3.81)	8" (20.32)	**07310005**
1.00"-1.25" (2.54-3.17)	1.50" (3.81)	10" (25.40)	**07310006**

Note: E-Eye length. M-Mesh length at nominal diameter.
Eyelet hole diameter .203" (.52cm).
I-Grips should not be used on Insulgrip devices when "Seal-Tite®" weatherproof covers are to be installed.

Dimensions in Inches (mm)

T&S BRASS AND BRONZE WORKS, INC.
2 Saddleback Cove / P.O. Box 1088
Travelers Rest, SC 29690

Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

Model No.
PB-8WOSN00PZLUB

Item No.

This Space for Architect/Engineer Approval

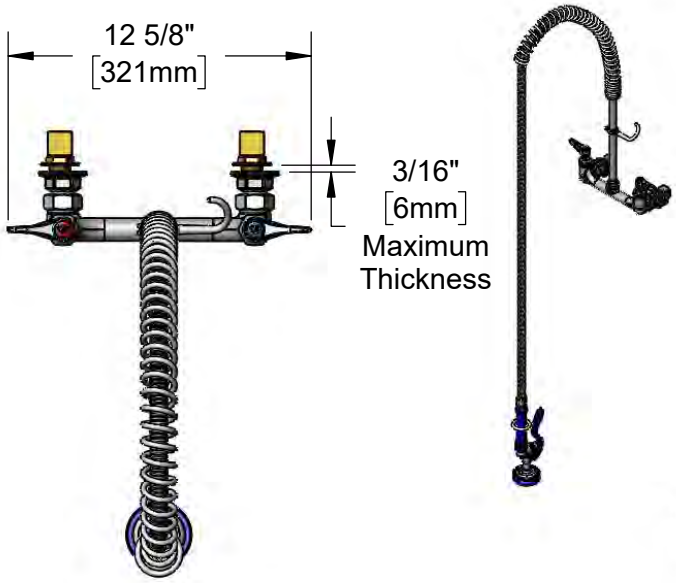
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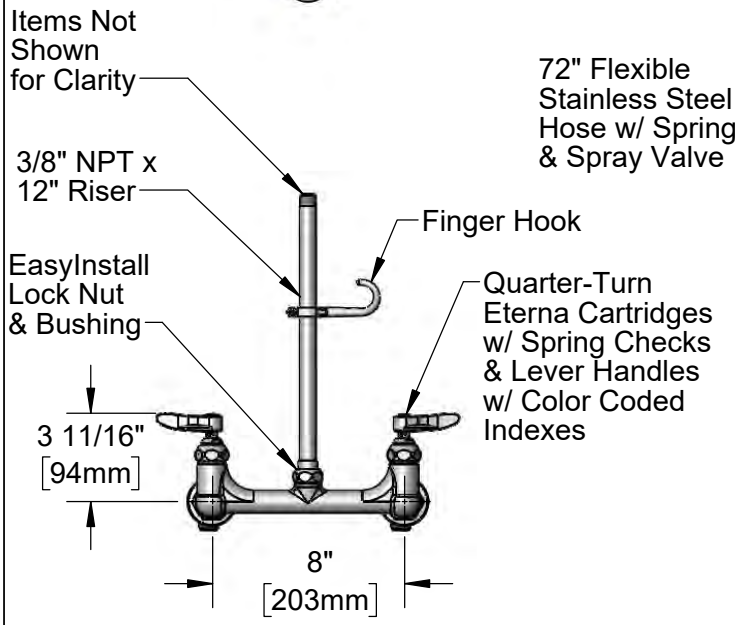
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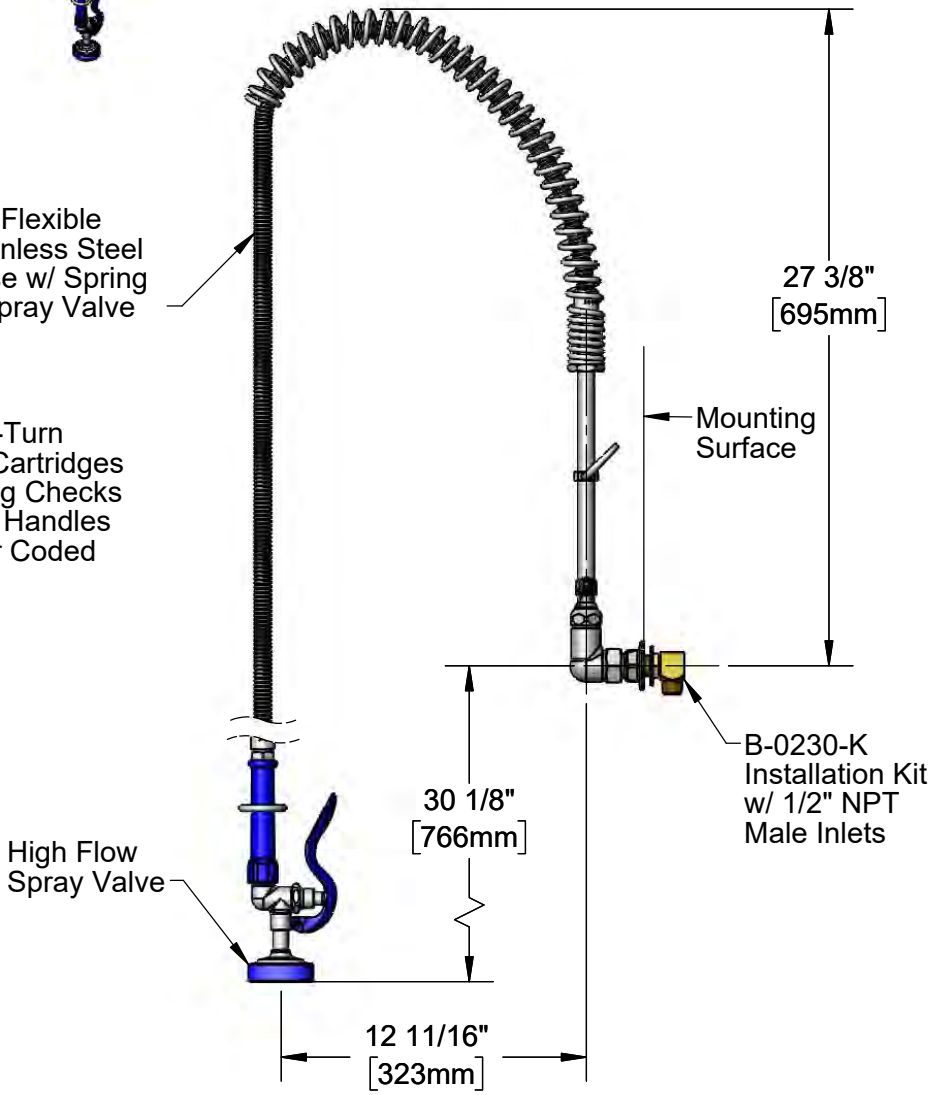
Customer/Wholesaler_____

Contractor_____

Architect/Engineer_____







Product Specifications:
8" Wall Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 72" Flexible Stainless Steel Hose, 12" Riser, High Flow Spray Valve (Blue) & Installation Kit w/ 1/2" NPT Male Inlets

Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 Exempt (Non-Potable)
2019 DOE PRSV Non-Compliant

Drawn:	LSA	Checked:	MRC	Approved:	JHB	Date:	12/20/19	Scale:	1:8	Sheet:	1 of 2

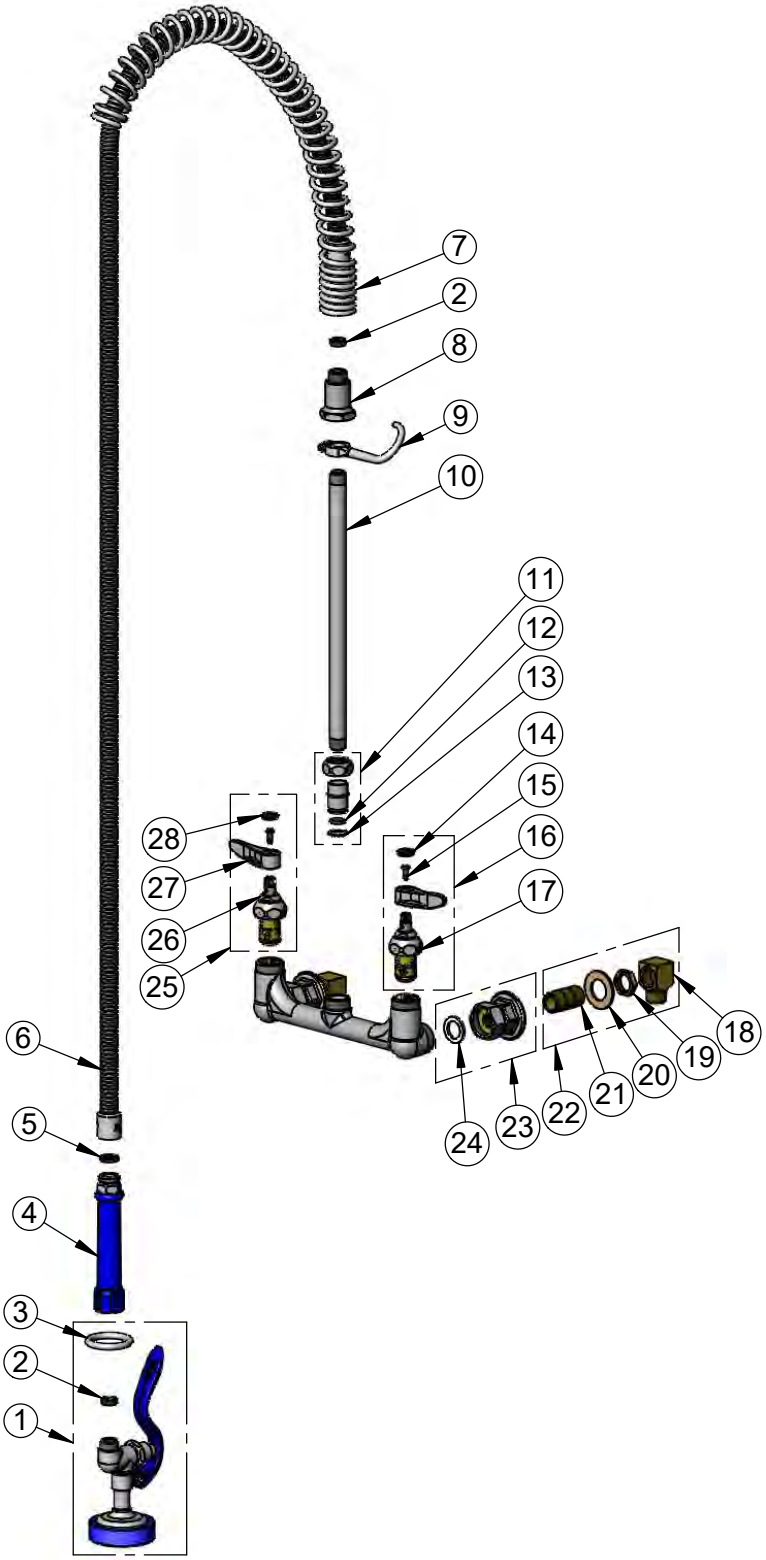
T&S BRASS AND BRONZE WORKS, INC.

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Travelers Rest, SC: 800-476-4103 • Simi Valley, CA: 800-423-0150 • Fax: 864-834-3518 • www.tsbrass.com

Model No.
PB-8WOSN00PZLUB

Item No.

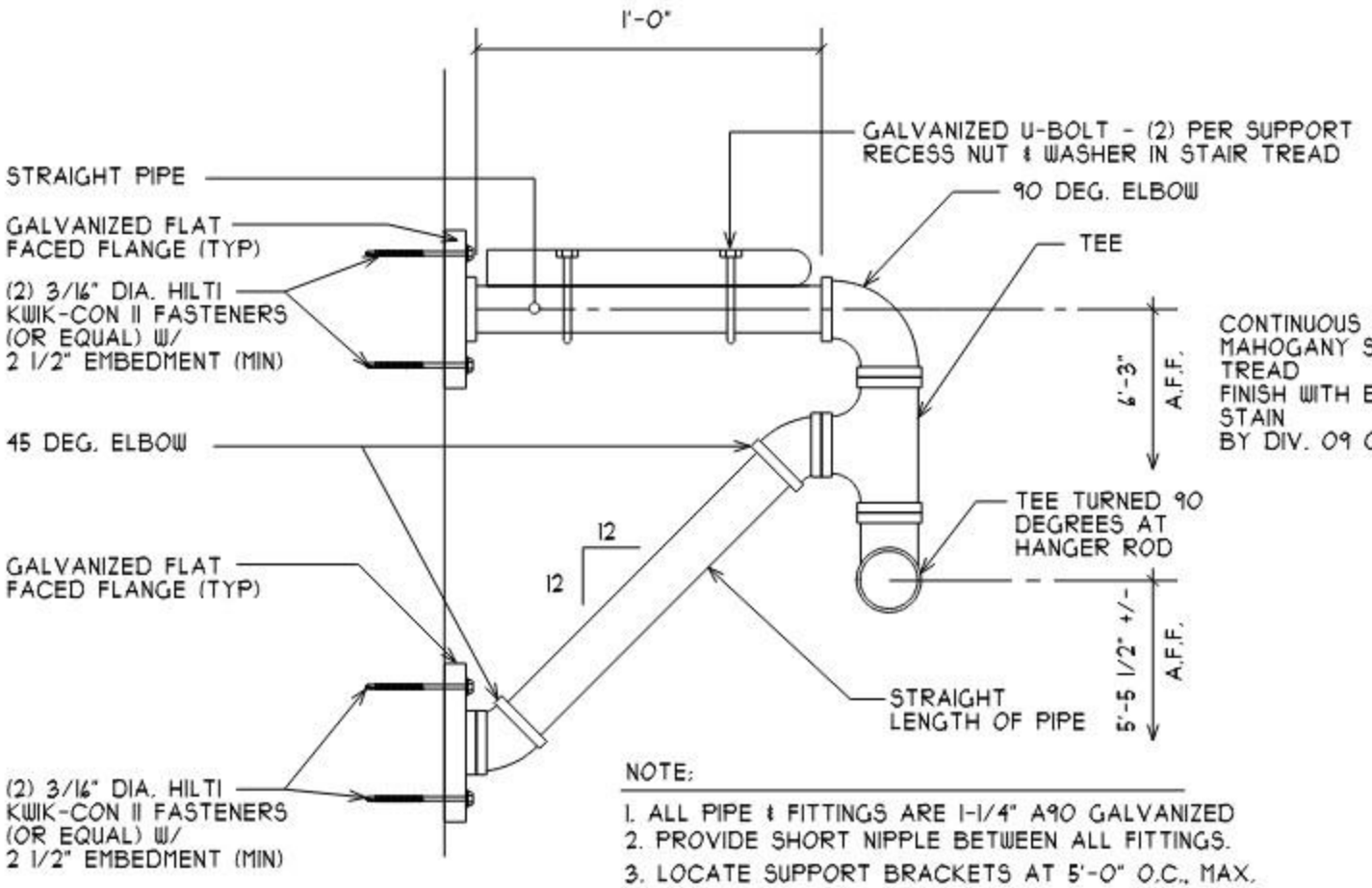


ITEM NO.	SALES NO.	DESCRIPTION
1	EB-0107	High Flow Spray Valve
2	010476-45	#27 Washer
3	000907-45	Spray Valve Hold Down Ring
4	011482-40	Blue Grip Handle
5	001014-45	Washer, B-0100 Hose Barrel
6	B-0072-H2A	72" Flexible Stainless Steel Hose, Less Handle
7	000888-45	EasyInstall Overhead Spring
8	000821-40	Spring Body
9	004R	Finger Hook
10	145X	Nipple, 3/8" NPT x 12"
11	EZ-K	EasyInstall Kit: Nut, Bushing, O-Ring & Lock Washer
12	001065-45	O-Ring
13	014200-45	Star Washer, Anti-Rotation
14	018506-19NS	Blue Button Index, Press-in
15	000925-45	Lab Handle Screw
16	002711-40NS	Quarter-Turn Eterna Cartridge, LTC w/ Spring Check, Handle, Index & Screw
17	012442-40NS	Quarter-Turn Eterna Cartridge, LTC w/ Spring Check
18	B-1100-K	1/2" NPT Male Inlet Elbow
19	002954-45	Shank Lock Nut
20	000999-45	Brass Lock Washer
21	013357-20	1/2" NPT x 1 5/8" Close Nipple
22	B-0230-K	Short Elbow Installation Kit
23	00AA	1/2" NPT Female Eccentric Flange
24	001019-45	Coupling Nut Washer
25	002712-40NS	Quarter-Turn Eterna Cartridge, RTC w/ Spring Check, Handle, Index & Screw
26	012443-40NS	Quarter-Turn Eterna Cartridge, RTC w/ Spring Check
27	001638-45NS	Lever Handle (New Style)
28	001193-19NS	Red Button Index, Press-in

Product Specifications:
8" Wall Mount Mixing Faucet, Quarter-Turn Eterna Cartridges w/ Spring Checks, Lever Handles, 72" Flexible Stainless Steel Hose, 12" Riser, High Flow Spray Valve (Blue) & Installation Kit w/ 1/2" NPT Male Inlets

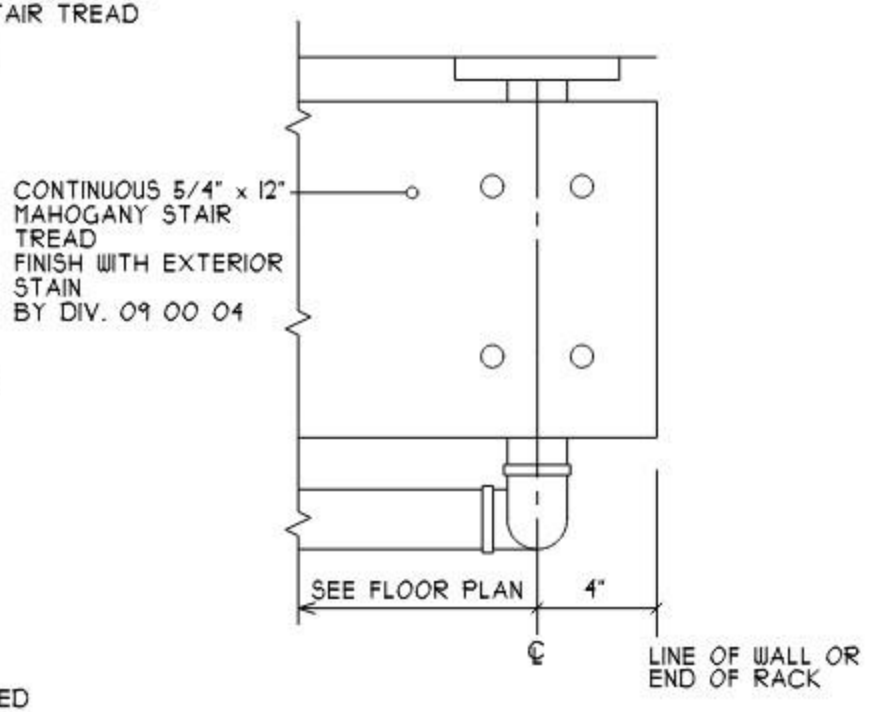
Product Compliance:
ASME A112.18.1 / CSA B125.1
NSF 61 Exempt (Non-Potable)
2019 DOE PRSV Non-Compliant

Drawn:	Checked:	Approved:	Date:	Scale:	Sheet:
LSA	MRC	JHB	12/20/19	NTS	2 of 2



NOTE:

1. ALL PIPE & FITTINGS ARE 1-1/4" A90 GALVANIZED
2. PROVIDE SHORT NIPPLE BETWEEN ALL FITTINGS.
3. LOCATE SUPPORT BRACKETS AT 5'-0" O.C., MAX.
4. GROUT C.M.U. CORES AT ALL MOUNTING LOCATIONS



PLAN VIEW AT END CONDITION

GEAR HANGING RACK FURNISHED AND INSTALLED BY DIV. 05 50 01 - METAL FABRICATION

6 TURNOUT GEAR HANGING RACK

SCALE: 1 1/2" = 1'-0"

1/APS13.14

ENVIROFAN

100.18

Gold Line – 160C-7 WH

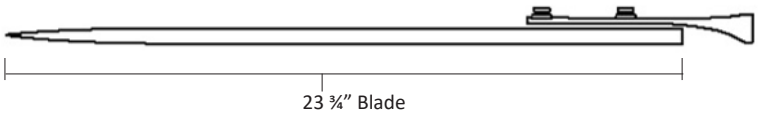
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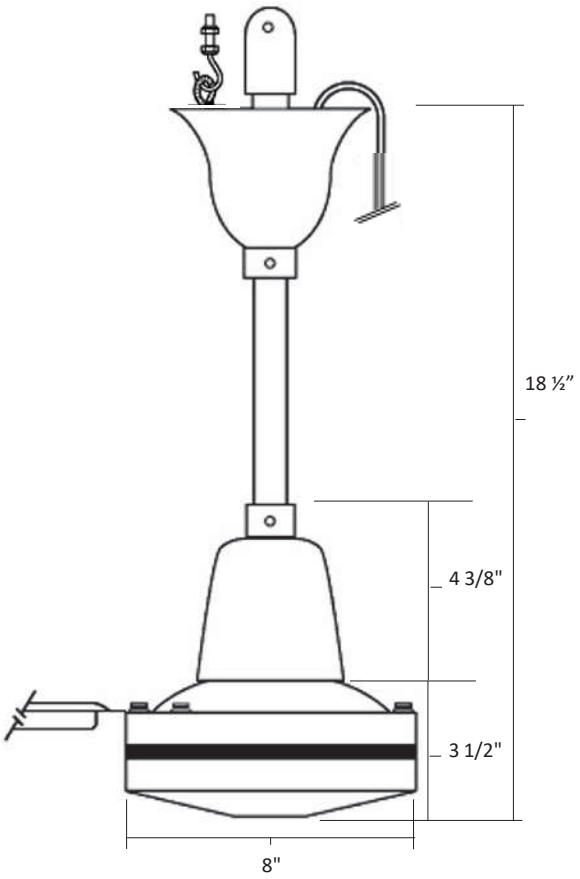
Fan Diameter: 56”
Color: White
Weight: 23 lbs.
Direction: Upblowing & Downblowing
Coverage Area: 2100 sq.ft.
RPM: 352
Amps: .688
Watts: 82.55
Volts: 120V, 60 Hz
Wiring: Wire Leads (extend about 16" from top)

EnergyGuide

Estimated Yearly Energy Cost: $23.14
Cubic Feet per Minute (CFM): 7212 **
CFM/Watt: 87.36

Based on 12 cents per kWh and 6.4 hours use per day
Your cost depends on rates and use
All estimates based on typical use
The higher the airflow, the more air the fan will move





Features:

Thermo Protected Motor
Secondary Support Cable - Extends about 18” from top
Cast Iron Motor Housing
Aluminum Blades
UL 507 Listed
10" Downrod (1" OD)
5 Year Warranty
2 Mounting Options: J-Bolt or EZ Mount Bracket to UL approved fan box

Note: Per UL 507 Regulations, fan blades must be 10 feet or more above floor
If fan blades are less than 10 feet above floor, a ceiling fan guard is required
CFM Measured from fan hung from 10' high ceiling with standard downrod
Technical specifications subject to change without notice

Northwest Envirofan
A Division of Northwest Environmental Systems, Inc.

Envirofan Ceiling Fans • Protecto-Guard Ceiling Fan Guards • Fan Controls

info@envirofan.com
(920) 235-7808
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Room
101
SCBA Fill

ADVANCE TABCO®
SMART FABRICATION™

STAINLESS STEEL

REGALINE SINKS

Two Compartment - Two Drainboards

YES! It's SeaMLess!

NSF

Item #: _____ Qty #: _____

Model #: _____

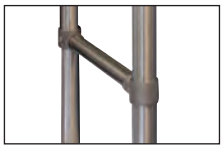
Project #: _____



93 & 9 SERIES
Adjustable Side Cross-Bracing



94 SERIES
Adjustable Side & Front Cross-Bracing



93 & 9 Series Adjustable Side Cross-Bracing



94 Series Adjustable Side & Front Cross-Bracing



Recessed Bowl Surface Accommodates Poly-Vance Cutting Boards & Sink Covers

FEATURES:

Tile edge for ease of installation.

One piece **Deep Drawn** sink bowls with integral drainboards with splash.

All sink bowls have a large liberal 3" radius.

"94" Series is supplied with adjustable front and side cross braces featuring leg clamps.

"93" & "9" Series is supplied with adjustable side cross braces featuring leg clamps.

CONSTRUCTION:

All TIG welded.

Welded areas blended to match adjacent surfaces and to a satin finish.

MATERIALS:

Spec-Line (94 Series): 14 gauge type 304 stainless steel
11" High Splash.

Standard (93 Series): 16 gauge type 304 stainless steel
8" High Splash.

Super Saver (9 Series): 18 gauge type 304 stainless steel
8" High Splash.

LEGS:
- 1 5/8" diameter tubular stainless steel.
- Stainless steel gussets.
- Stainless Steel 1" adjustable bullet feet.

Bowl Size	O.A. Length	DRBD. Size	SPEC-LINE 94 Series Model #	WT.	STANDARD 93 Series Model #	WT.	SUPER SAVER 9 Series Model #	WT.	Cu. Ft.
			14 Ga. 304 S/S 14" Water Level		16 Ga. 304 S/S 12" Water Level		18 Ga. 304 S/S 12" Water Level		
16" x 20"	72"	18"	94-2-36-18RL	141 lbs.	93-2-36-18RL	118 lbs.	9-2-36-18RL	100 lbs.	40
	85"	24"	94-2-36-24RL	156 lbs.	93-2-36-24RL	130 lbs.	9-2-36-24RL	110 lbs.	46
	109"	36"*	94-2-36-36RL	212 lbs.	93-2-36-36RL	169 lbs.	9-2-36-36RL	144 lbs.	58
20" x 20"	81"	18"	94-22-40-18RL	176 lbs.	93-22-40-18RL	147 lbs.	9-22-40-18RL	125 lbs.	44
	93"	24"	94-22-40-24RL	220 lbs.	93-22-40-24RL	184 lbs.	9-22-40-24RL	162 lbs.	50
	117"	36"*	94-22-40-36RL	273 lbs.	93-22-40-36RL	237 lbs.	9-22-40-36RL	215 lbs.	72
24" x 24"	101"	24"	94-42-48-24RL	339 lbs.	93-42-48-24RL	295 lbs.	9-42-48-24RL	259 lbs.	65
	125"	36"*	94-42-48-36RL	391 lbs.	93-42-48-36RL	339 lbs.	9-42-48-36RL	314 lbs.	96
20" x 28"	81"	18"	94-82-40-18RL	251 lbs.	93-82-40-18RL	219 lbs.	9-82-40-18RL	194 lbs.	64
	93"	24"	94-82-40-24RL	294 lbs.	93-82-40-24RL	253 lbs.	9-82-40-24RL	228 lbs.	73
	117"	36"*	94-82-40-36RL	333 lbs.	93-82-40-36RL	287 lbs.	9-82-40-36RL	261 lbs.	96
* Regalines with 36" Drainboards are Supplied with Two Additional Legs (per drainboard) for Support.			14" Water Level 18" Flood Level		12" Water Level 16" Flood Level		12" Water Level 16" Flood Level		

Weights & Cubes Are Approximate

ADVANCE TABCO®
SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 7:00 pm E.S.T.

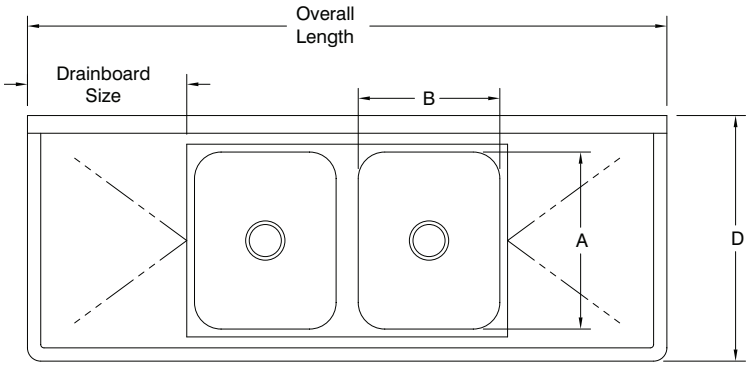
For Orders & Customer Service:
Email: customer@advancetabco.com or **Fax:** 631-242-6900

For Smart Fabrication™ Quotes:
Email: smartfab@advancetabco.com or **Fax:** 631-586-2933

DIMENSIONS and SPECIFICATIONS

TOL Overall: ± .500”
Interior: ± .250”

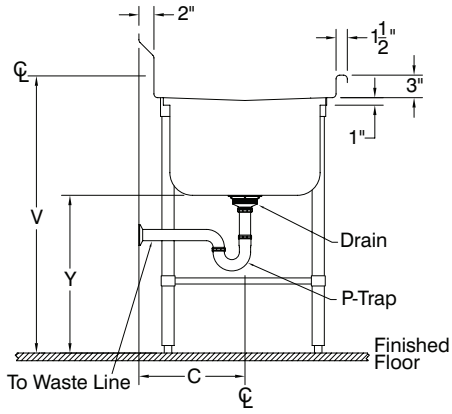
ALL DIMENSIONS ARE TYPICAL



DESCRIPTION								94 SERIES					9 & 93 SERIES				
BOWL SIZE	Overall Length	DRBD SIZE	Recommended Use	A	B	C	D	V	W	X	Y	Z	V	W	X	Y	Z
16”x20”	72” 85” 109”	18” 24” *36”	**DISH SINKS**	20”	16”	14 1/8”	28”	**38”**	**11”**	**14”**	**19”**	**45”**	**38”**	**8”**	**12”**	**21”**	**42”**
20”x20”	81” 93” 117”	18” 24” *36”	**DISH & POT SINKS**	20”	20”	14 1/8”	28”	**38”**	**11”**	**14”**	**19”**	**45”**	**38”**	**8”**	**12”**	**21”**	**42”**
24”x24”	101” 125”	24” *36”	**POT SINKS**	24”	24”	16 1/8”	32”	**38”**	**11”**	**14”**	**19”**	**45”**	**38”**	**8”**	**12”**	**21”**	**42”**
20”x28”	81” 93” 117”	18” 24” *36”	**PAN SINKS**	28”	20”	18 1/8”	36”	**38”**	**11”**	**14”**	**19”**	**45”**	**38”**	**8”**	**12”**	**21”**	**42”**

*** Regalines with 36” Drainboards are Supplied with Two Additional Legs (per drainboard) for Support.**

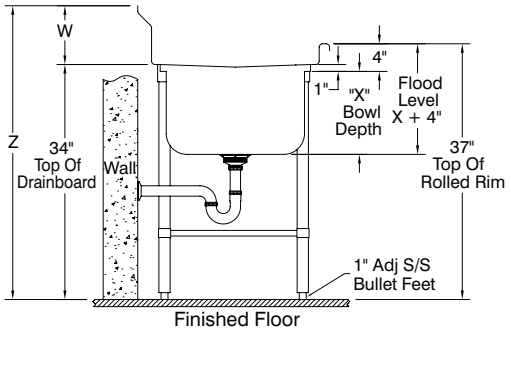
PLUMBING ROUGH-IN



MECHANICAL:

- Supply is 1/2” IPS hot & cold.
- Faucet holes on 8” centers.
- Faucets are not included **(see accessories)**.
- Waste drains are 1 1/2” IPS S/S basket type, located in center of sink bowl, and are included.

SECTION



ADVANCE TABCO
SMART FABRICATION™

325 Wireless Boulevard, Hauppauge, NY 11788

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

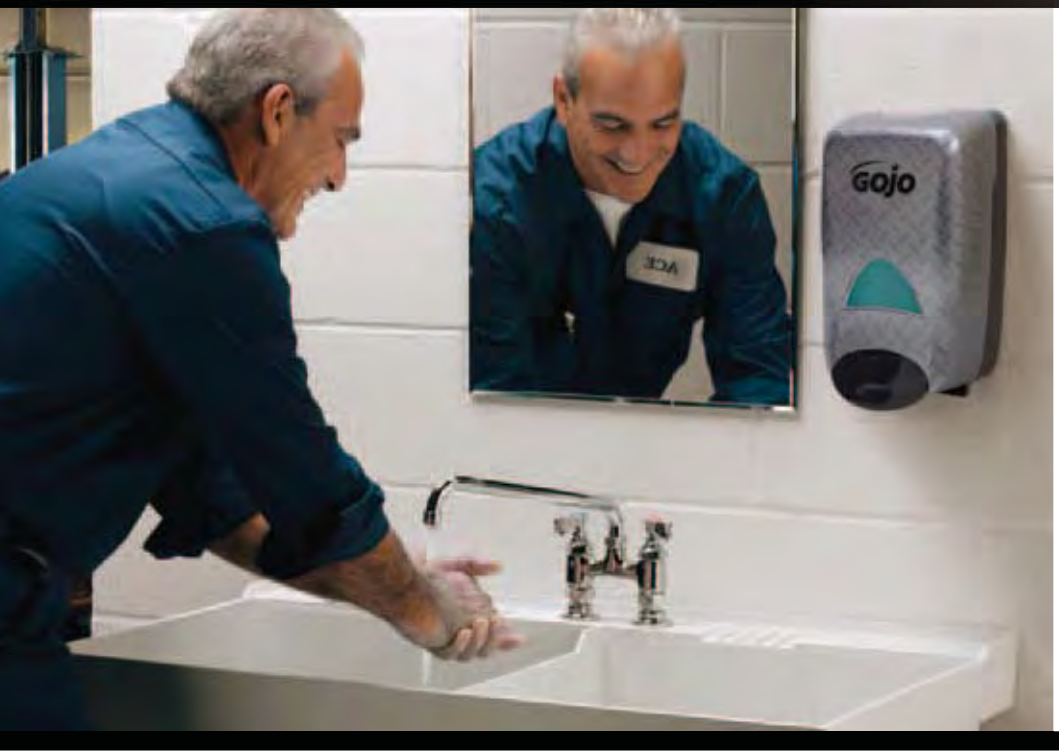
© ADVANCE TABCO, JULY 2024



GOJO®

Dispensing systems
so ***curiously cool***…

People *can't wait* to use them!



And, naturally, the more people use them, the more likely they are to *keep their hands clean and healthy*. That can translate into:

- **Less skin disease**
- **Less spreading of illness-causing germs**
- **Less absenteeism**… which can have a profound impact on the bottom line of your business!

Dirty hands are the **pickpockets** of an otherwise healthy business.



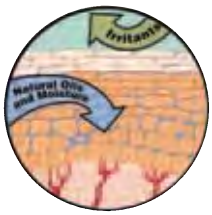
Skin disease is the leading cause of occupational illness.[1] Direct medical expenses for contact dermatitis alone are **more than $1.4 billion**. And productivity losses are estimated to **add another $500 million** on top of that.[2] When your employees suffer with skin disease, your business winds up paying the price a number of ways:

- Lost work time and absenteeism
- Lower productivity and efficiency
- Unskilled temporary labor & overtime
- Higher insurance premiums and Worker's Compensation costs

Maintaining skin's natural protectiveness.



Dry, damaged skin isn't just a cosmetic issue. It's a symptom indicating that the skin's natural protective barrier has been compromised. This permits natural oils and moisture to escape and lets outside irritants in, possibly entering the bloodstream and leading to infection.



Heathy, well-conditioned skin retains more moisture and is less likely to absorb and react to incidental exposure to irritants. Our strategy is to use the mildest, most effective hand cleaner for each application, maintaining as much of the skin's natural barrier function as possible.

It's a DIRTY JOB, but someone has to do it.

Since all dirt is *not* created equal, you need options.



KIND OF DIRTY?

Get GOJO® DPX™.

With continued advancements in technology and processes, work environments are getting cleaner. But when hands do get dirty, workers want to remove light and medium soils without using overly aggressive solvents and abrasives. **Now they can.** With GOJO ECO SOY™ Foaming Hand Cleaner in the cool new DPX dispenser. The grit-free foaming action gently releases dirt and moderate soils from skin.

GOJO DPX Foam Soap Dispenser with GOJO ECO SOY Foaming Hand Cleaner

- Ideal for distribution, warehouse, labs, restrooms, and production areas
- Diamond-plate dispenser design connects with workers
- Cleaning powered by soy, a renewable, natural resource
- Invigorating fresh scent



REALLY DIRTY?

Get GOJO PRO™ TDX™.

Hands that get really dirty need an effective cleaner that won't tear up the skin. Like GOJO Cherry Gel Pumice Hand Cleaner in the upgraded PRO TDX dispenser. Gel-style hand cleaner quickly cleans heavy dirt, grease and oil. The advanced gel technology encapsulates pumice scrubbers and contains skin conditioners for a unique pH-balanced wash experience that leaves skin clean and feeling refreshed.

GOJO PRO TDX 2000 Dispenser with GOJO Cherry Gel Pumice Hand Cleaner

- Ideal for locker rooms, production, tool crib/rooms, clean-up sinks, maintenance areas
- Modern design with diamond-plate effect looks great in tough soils environments
- Gel formula clings to hands for easy cleaning
- Pleasant cherry fragrance eliminates soil odors without any lingering scent.





Healthy hands for the lives you touch.

GOJO®, the #1 brand of heavy duty hand cleaner.[3]

Description	Size	Order No.	Use Dispenser
PRO™ TDX™ 5000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	5000 mL	7590-02	7500-01
PRO TDX 2000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	2000 mL	7290-04	7200-01
GOJO Cherry Gel Pumice Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	7290-D2	—
GOJO DPX™ Foam Soap System			
GOJO ECO SOY™ Foaming Hand Cleaner Refill	2000 mL	5268-03	5254-06
GOJO ECO SOY Foaming Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	5268-D2	—

www.GOJO.com

For more information on our complete line of skin care products for soil removal, general cleansing, skin conditioning and sanitizing, visit www.GOJO.com or contact GOJO Customer Service at 1-800-321-9647.

1. Bureau of Labor Statistics, U.S. Department of Labor, December 2004.
2. The Lewin Group, Inc. 2005. The Burden of Skin Diseases. Prepared for The Society for Investigative Dermatology and The Academy of Dermatology Association.
3. Results based on Feb/March 2010 survey, administered by a third party where GOJO was not identified as sponsor of the research. Survey of 500 employees in U.S. and Canada in industries where tough soils are encountered. Survey respondents mentioned GOJO more than any other hand cleaner brand in unaided awareness.

Visit our website: www.GOJO.com

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LIT-TS-SYS (05/2011)

ADVANCE TABCO®
SMART FABRICATION™

SINGLE BAR POT RACKS

Item #: _____ Qty #: _____
Model #: _____
Project #: _____



FEATURES:

Wall mounted single bar Pot Rack .

MATERIAL:

Flat steel bar is 2" x 1/4", either stainless steel, powder coated or aluminum (as specified).

Pot hooks are double prong plated. (6-9 per unit)

CONSTRUCTION:

All welded stainless steel units are blended to a satin finish.

All powder coated units are coated with FDA approved material.

Aluminum is die formed from single piece.

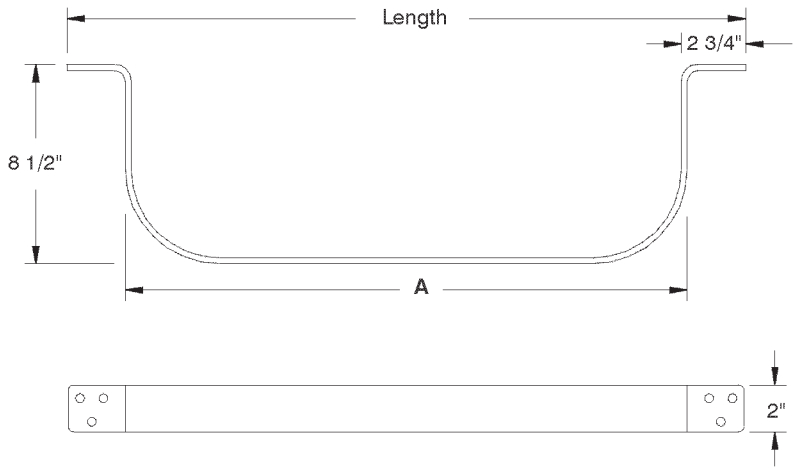
Length	A	S/S	Wt.	POWDER COATED	Wt.	ALUMINUM	Wt.	# of Hooks
29"	24"					ALW-24	5 lbs.	6
41"	36"	SW1-36	13 lbs.	GW1-36	13 lbs.	ALW-36	6 lbs.	6
53"	48"	SW1-48	15 lbs.	GW1-48	15 lbs.	ALW-48	7 lbs.	6
65"	60"	SW1-60	17 lbs.	GW1-60	17 lbs.			9
77"	72"	SW1-72	19 lbs.	GW1-72	19 lbs.			9
89"	84"	SW1-84	21 lbs.	GW1-84	21 lbs.			9
101"	96"	SW1-96	23 lbs.	GW1-96	23 lbs.			9
113"	108"	SW1-108	25 lbs.	GW1-108	25 lbs.			9
125"	120"	SW1-120	27 lbs.	GW1-120	27 lbs.			9

Units 7 ft. and larger are furnished with three (3) sets of brackets.

DETAILS and SPECIFICATIONS

TOL ± .500"

ALL DIMENSIONS ARE TYPICAL



ADVANCE TABCO®
SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 8:00 pm E.S.T.

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Email: customer@advancetabco.com or **Fax:** 631-242-6900

For Smart Fabrication™ Quotes:
Email: smartfab@advancetabco.com or **Fax:** 631-586-2933

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice. © ADVANCE TABCO, MAY 2016 REF-L

QUALITY IN PRODUCT • PRECISION IN PROCESS • STRENGTH IN PEOPLE

STAINLESS STEEL



STAINLESS STEEL

mott MANUFACTURING

ISO 9001:2008 REGISTERED

QUALITY BY DESIGN

Mott Manufacturing provides complete solutions for all your laboratory needs. We offer a full line of products featuring quality steel laboratory furniture, premium grade architectural wood casework, flexible and mobile furniture systems, high performance and custom fume hoods, custom stainless steel work surfaces and sinks. We have been serving the industrial, pharmaceutical, education, health care and government markets since the early 1960's. Since each laboratory's needs are unique, we can design and engineer products to meet your exact requirements.

Customer Satisfaction is Mott's First Priority

Delivering industry-leading customer service is more than just words to the Mott Team. We know that satisfied customers drive our success. We therefore provide our customers with the following key values:

Consistent Product Quality

Our ISO 9001 Registered Quality Management System, supported by quality materials and skilled employees, ensures only high quality product is shipped.

Just-in-Time Delivery Capability

Our six week manufacturing lead time, along with our high on-time and complete shipment performance, provide exceptional reliability to our customers.

Adaptable Product Line

Our extensive modular product line permits our customers to readily configure the most productive solution to meet their specific requirements. Our flexible manufacturing capabilities allow convenient modification of standard components to fit the unique requirements of each laboratory.

Competitive Value

Our several decades of application experience allows us to provide productive furniture solutions to our customers. This experience, along with our high product quality, custom manufacturing capability, consistently strong service levels, and competitive pricing provide high value to our customers.

Extensive Dealer Network

Our dealers are the best. We build strong relationships with our dealers to provide, in partnership, industry-leading service levels. Our dealers' on site leadership and years of experience combined with our design and manufacturing skills deliver the very best in laboratory furniture solutions.





mott MANUFACTURING

ISO 9001:2008 REGISTERED

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T. 304.497.2115

www.mott.ca

SEFA

AUGUST 2011

mott MANUFACTURING

ISO 9001:2008 REGISTERED

Quality Assured...

Mott's extensive stainless steel product offering is designed and manufactured to deliver practical solutions to specialized laboratory environments. Mott's stainless steel furniture and fume hoods are highly durable, easy to clean, simple to maintain and have an extended product life providing an exceptional value.

Mott's entire standard product line is available in stainless steel or can be custom designed for specific applications. The manufacturing process begins with the selection of quality ASTM A 240 Type 304 or 316 stainless steel and is welded using the Tungsten Inert Gas (TIG) method. The result is truly attractive laboratory furniture that will justifiably complement any laboratory.

Numerous North American laboratories feature Mott's stainless steel furniture. Applications include clean rooms, operating rooms, animal facilities, wash up areas, pharmaceutical and food manufacturing environments that feature high use of water wash-down to eliminate contamination and maintain excellent cleanliness.

Mott's commitment to quality through our ISO Quality Management system assures the reliable, long life of our entire product line of stainless steel furniture and fume hoods.



- **Moisture & Corrosion Resistance** - Properly selected and maintained stainless steel provides excellent moisture and corrosion resistance in several applications.
- **Impact Resistance** - Stainless steel's high yield strength, even at elevated temperatures, provides high impact strength and therefore ensures durability and extended product life.
- **Easy to Sanitize** - Stainless steel work surfaces with smooth radius corners make it ideal for environments requiring high levels of cleanliness. This includes applications such as pharmaceutical manufacturing, food processing, health care, agricultural products and services, clean rooms, operating rooms, animal labs, autopsy areas, and radioactive processes.
- **Attractive & Aesthetic Appearance** - Polished stainless steel provides bright, easily maintainable surfaces resulting in contemporary furniture design.
- **Fume Hoods** - All Mott's standard and premium fume hood designs are readily available in stainless steel construction. Hoods can be custom designed and manufactured to meet specific application requirements. Features can include cove corner liners with integral work surfaces where high levels of cleanliness are required.
- **Friendly to the Environment** - Stainless steel products are 100% recyclable and have value even after a very long life in the laboratory. 60% - 85% of new stainless steel comes from old remelted stainless steel scrap; which contributes to LEED® credit MR4.

CLASSIFIED UL

Mott's fume hoods meet UL 1805 requirements and are classified by Underwriters Laboratories Inc. as to fire, electrical, and mechanical hazards only. Control number 68SN.

STAINLESS STEEL PRODUCTS

Stainless Steel Introduction

The full range of Mott cabinetry - from base cabinets to tall floor mounted cabinets - are available in 304 or 316 stainless steel. Mott Manufacturing specializes in the integration of custom design features and/or dimensions into stainless steel laboratory furniture components. The following is a sample listing of other furniture components that can be manufactured in 304 or 316 stainless steel:

- Counter tops
- Filler panels
- Aprons
- Tables - fixed and mobile
- Exhaust canopies

Stainless Steel Grades

The most common stainless steel grades required in laboratory applications are 304 or 316. 304 grade is widely used for cabinetry while the 316 grade is more often specified for more demanding applications such as counter tops and fume hood liners.

304 grade stainless steel is the most versatile and one of the most widely applied stainless steel grades for laboratory use. High quality laboratory furniture components can be readily manufactured from this grade because it has excellent forming and welding characteristics. This grade also has excellent corrosion resistance, further corrosion resistance details are available from Mott Manufacturing or its dealers upon request.

316 grade stainless steel is specified for the more demanding laboratory environments. This molybdenum bearing, higher nickel content grade delivers superior corrosion resistance, improved stain resistance and strengthened chloride attack resistance benefits to laboratory furniture. This grade has excellent corrosion resistance to a wider range of chemicals, including the complex sulphur compounds.

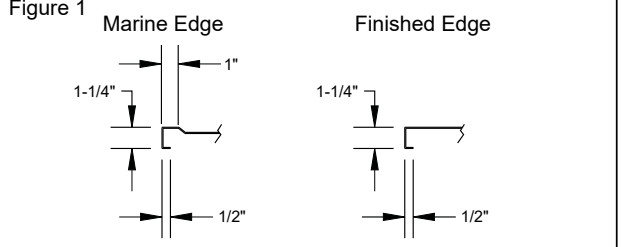
All Mott stainless steel laboratory furniture components are manufactured to a No.4 finish to deliver a smooth sanitary surface. This finish is widely used in laboratory applications where a uniform bright finish is required. The No.4 finish delivered by Mott Manufacturing is often slightly brighter than industry standard as the mesh finish is in the range of 120 to 150 resulting from the stainless steel sheets being polished with lubricating oil and abrasive belts with a 180 to 200 grit. No.4 finish samples are available from Mott or its dealers upon request.

Counter Tops

Counter tops can be designed to exactly match customer specifications and include features such as:

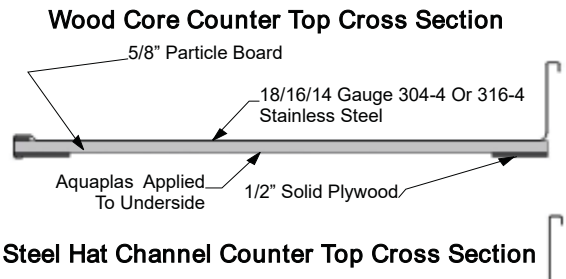
- Marine or finished edges (figure 1)
- Integral sinks in a wide variety of configurations
- Sloping drain boards

Figure 1



Standard construction includes either 304 or 316 stainless steel, backed by a 43 lb density particle board and plywood core (figure 2). Steel hat channel

Figure 2



construction is also available with 16 gauge type 304 stainless steel or satin coat finished stiffeners. Hat channel construction is recommended for long length counter tops that support heavy equipment or instruments (figure 2). All Mott counter tops have a sound deadening Aquaplas sealer applied to their underside.

All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

STAINLESS STEEL
CASEWORK CONSTRUCTION DETAILS AND SPECIFICATIONS

Overview

Cabinets

Standard cabinets are fabricated using prime quality furniture grade 304-4 stainless steel. (Optional 316-4 Stainless Steel is also available using option code -51.) All components are die formed, notched, keyed and tightly fitted to form a

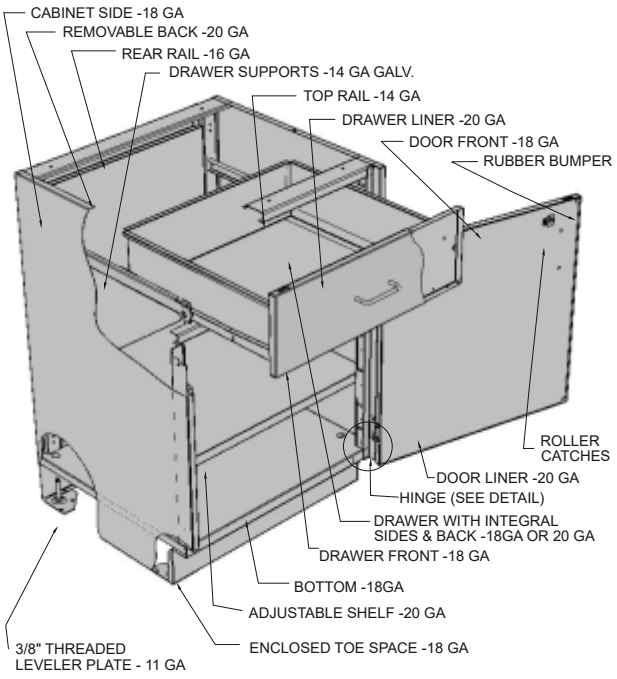
Stainless Steel Cabinet Gauges and Materials	
Drawer Bodies*, Shelves, Door and Drawer Liners, Removable Backs.	20 gauge 304-4 S/S
Cabinet Gables, Tops, Bottoms, Toekicks, Outer Door and Drawer Front Panels, Table Frames, Filler Panels, Sloping Tops.	18 gauge 304-4 S/S
Top and Intermediate Channels, Table Legs.	16 gauge 304-4 S/S
Drawer Suspension, Hinge Plates.	14 gauge 304-4 S/S
Cabinet Leveler Support	11 gauge 304-4 S/S
Five Knuckle Hinges (with s/s fasteners)	14 gauge 304-4 S/S
Door / Drawer Pulls	S/S Bar Pull
Door Roller Catch	Zinc Plated
3/8 Hex Head Leveler Bolts	Electro Plated
Drawer Roller Bearings	Zinc plated with Nylon rim
Full Extension Drawer Glides	Zinc plated
Shelf Clips	Zinc plated
Sliding Glass Doors Shoes & Tracks	Aluminum
Framed Glass Door lower Tracks	PVC
Cabinet Leveler Access Covers	PVC

Note: * 30” wide or larger drawers are 18 gauge, otherwise drawers are standard 20 gauge.

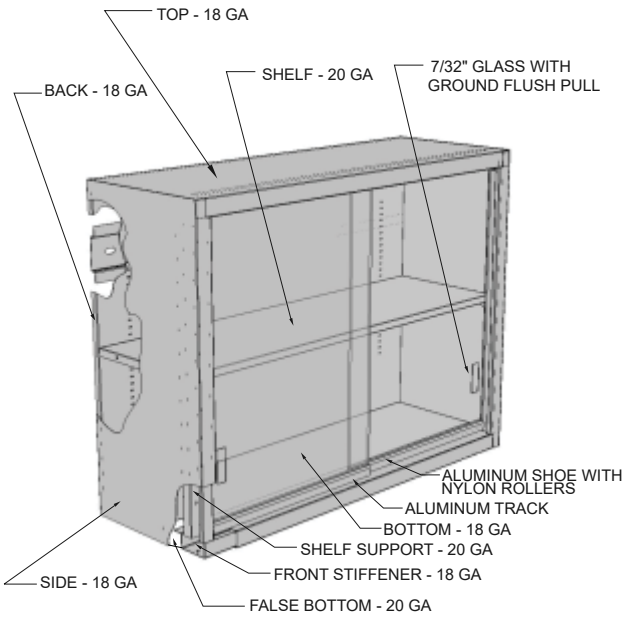
Finish

All cabinets surfaces are finished to a No.4 brush. All weld marks on the cabinet front and sides, exterior and interior of drawer / door heads have the color removed. All welds including the rear and interior of the cabinet, and outside of drawer housings are left natural.

BASE CABINET DETAIL



WALL CABINET DETAIL



All dimensions and sizes shown are nominal.
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Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

BAUER COMPRESSORS
Quality. Our DNA

CFS5.5®

CONTAINMENT FILL STATIONS FOR AIR AND OXYGEN

Choose from a complete line of containment fill stations suitable for SCBA or SCUBA cylinders. Whether you need a 3-, 2- or single-position fill station, be assured each model was proof tested by an independent lab to safely contain fragments of a ruptured 5500 psi 110 cu. ft. SCBA cylinder at maximum operating pressure in accordance with the 2016 Edition of NFPA 1901. Ask about our custom options to tailor a model to your specific requirements.

EFFECTIVE: 01/01/20

› **FILL POSITIONS:**
- One, two, or three
- Mobile or Stationary

› **CUSTOM DESIGNED SYSTEM:**
- Dual function cascade controls (2 or 3 position)
- Top mounted panels
- Remote fill outlets



› CFS5.5-3S/DF/TM



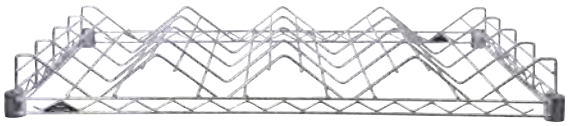
› CFS5.5-2S

101.06

SCBA MOBILE BOTTLE CART

Units provide safe and organized storage for SCBA cylinders and allow you to unload empty bottles and reload apparatus easily and efficiently.

- Made of chrome plated steel
- Built with newly designed v-shelving
- Comes with split sleeves to attach shelves to posts
- (4) heavy-duty 5" casters; (2) with foot operated brakes





VBR-16

ITEM #:	DESCRIPTION:	SIZE:
VBR-16:	Holds 16 bottles – 4 Shelves	36" x 24" x 40"
VBR-24:	Holds 24 bottles – 6 Shelves	36" x 24" x 61"
VBR-28:	Holds 28 bottles – 7 Shelves	36" x 24" x 71.5"
VBR-36:	Holds 36 bottles – 6 Shelves	54" x 24" x 61"
VBR-42:	Holds 42 bottles – 7 Shelves	54" x 24" x 71.5"

COLLAPSIBLE BOTTLE CARRIER

Transport or store bottles in this convenient bottle carrier.

- Heavy-duty reinforced steel construction with a nylon coating
- Holds up to (8) cylinders of 45-minute and 60-minute bottles
- Stays up even when empty

ITEM #:	SIZE:
BC-8	31" x 16" x 23" / 6.5" (collapsed)







GearGrid - Slinger Tool Grid Wall Mount

710002457

Additional freight charges will apply on this product

Product Size

- Slinger Grid 4'W unit includes 3 Large Tool hangers & 1 four prong rack
- Slinger Grid 6'W unit includes 4 Large Tool hangers & 2 four prong rack

GearGrid to provide (6) short GearGrid Hooks in Lieu of standard rack assortment/rack.

1

LOGIN FOR PRICE

0 Units available

Accessory Products



GearGrid - Topside Wall Mount S...

Description

Fast, convenient tool access and storage, easily configured to meet your specific needs. Mounts quickly and easily with four wall mount brackets.

Specifications:

*Our standard color is Red

- Available in 4', 5' and 6' widths
- 25.25"h
- 4' Unit includes 3 Large Tool Hangers & 1 Four-Prong Rack
- 5' Unit includes 3 Large Tool Hangers & 2 Four-Prong Racks
- 6' Unit includes 4 Large Tool Hangers & 2 Four-Prong Racks
- Additional Hangers and Racks available
- Heavy duty 1.25" tubing frame with high-strength 1.25" wire with 3" x 3" square grid pattern

Other options available upon request:

- Other configuration such as: Slinger Grid 5'W unit includes 3 Large Tool hangers & 2 four prong rack
- Other colors: Red, Black, Blue, Green, Maroon, Grey,White



WFR Wholesale Fire & Rescue Ltd.

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Rocky View County AB T1X 0R4
Canada

1-800-561-0400 / 1-403-279-0400

sales@wfrfire.com

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101.07a

Fire & EMS Products > Hose & Cylinder Systems > Accessories >







Tool Holder – Fire & EMS

$11.00

Add GearGrid's Tool Holder to any of our storage systems with our standard 3" x 3" square grid pattern for quick and convenient access to a variety of tools and equipment – the storage possibilities are endless!

Color Undecided



› CFS5.5®-3S



› CFS5.5®-2S

CFS5.5®

STANDARD SCOPE OF SUPPLY

- Complete with SCBA fill connection, fill hose and bleed valve
- Fill control panel with an adjustable regulator, relief valve, manual control valve and pressure gauge for each fill position
- Convenient door handle actuation, bottom venting and reduced footprint
- Hands-free door interlock
- Compliant with NFPA 1901 2016 Edition
- Four bank dual function cascade controls
- Air direction valve

SYSTEM FOOTPRINT

CFS5.5®-3S

DIMENSIONS L X W X H inches (mm)

- 41" x 21" x 57" (1041mm x 533mm x 1448mm)

WEIGHT pounds (kg)

- 1000 lb (454 kg)

CFS5.5®-2S

DIMENSIONS L X W X H inches (mm)

- 30" x 21" x 57" (762mm x 533mm x 1448mm)

WEIGHT pounds (kg)

- 750 lb (390.2 kg)

TECHINICAL DATA

Model	Description
CFS5.5®-3S	Three position CFS equipped with inlet pressure gauge adjustable regulator, regulated pressure gauge, fill control valve and fill pressure gauges. Unit will consist of Dual function, top mount, four bank cascade panel. The dual function feature offers the ability to refill a storage bank, even with the bank valve closed, while filling SCBA's from another bank. It also includes an air direction valve allowing the operator to select "fill from storage" or "fill from compressor", additionally the system includes a regulated remote fill outlet.
CFS5.5®-2S	Two position CFS equipped with inlet pressure gauge adjustable regulator, regulated pressure gauge, fill control valve and fill pressure gauges. Unit will consist of Dual function, top mount, four bank cascade panel. The dual function feature offers the ability to refill a storage bank, even with the bank valve closed, while filling SCBA's from another bank. It also includes an air direction valve allowing the operator to select "fill from storage" or "fill from compressor", additionally the system includes a regulated remote fill outlet.

AIR STORAGE

STANDARD SCOPE OF SUPPLY

- The scope of supply for the ASME cylinder assembly includes four ASME coded cylinders, an ASME safety relief valve, cylinder valve and drain valve for each cylinder
- Assemblies are designed to be used with a BAUER four-bank cascade panel. Gauges are not included on the individual cylinders as they are on the cascade pane.
- ASME-7K-3:1 is a heavy-duty, welded steel rack designed for vertical cylinder configuration for stationary or mobile applications. Each cylinder is independently affixed to the rack with unistrut type clamps
- ASME-7K-4:1 is a heavy-duty, welded steel rack designed for horizontal cylinder configuration for stationary applications. Each cylinder is independently affixed to the rack with clamps

SYSTEM FOOTPRINT

ASME-7K-3

DIMENSIONS L X W X H inches (mm)

- 52" x 17.5" x 69.5" (1320.8mm x 444.5mm x 1765.3mm)

WEIGHT pounds (kg)

- 2000 lb (3220 kg)

ASME-7K-4

DIMENSIONS L X W X H inches (mm)

- 95" x 34" x 44" (2413mm x 864mm x 1118mm)

WEIGHT pounds (kg)

- 7100 lb (3220 kg)



› ASME-7K-3:1

TECHINICAL DATA

Model	Description
ASME-7K-3:1	4 Cylinder System with maximum operating pressure of 7000 PSIG installed in a vertical rack. System shall provide a 3:1 structural safety factor
ASME-7K-4:1	4 Cylinder System with maximum operating pressure of 7000 PSIG installed in a horizontal rack. System shall provide a 4:1 structural safety factor

FIRE

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BREATHING AIR CATALOG

High-Pressure Systems for Safety & Sports Applications





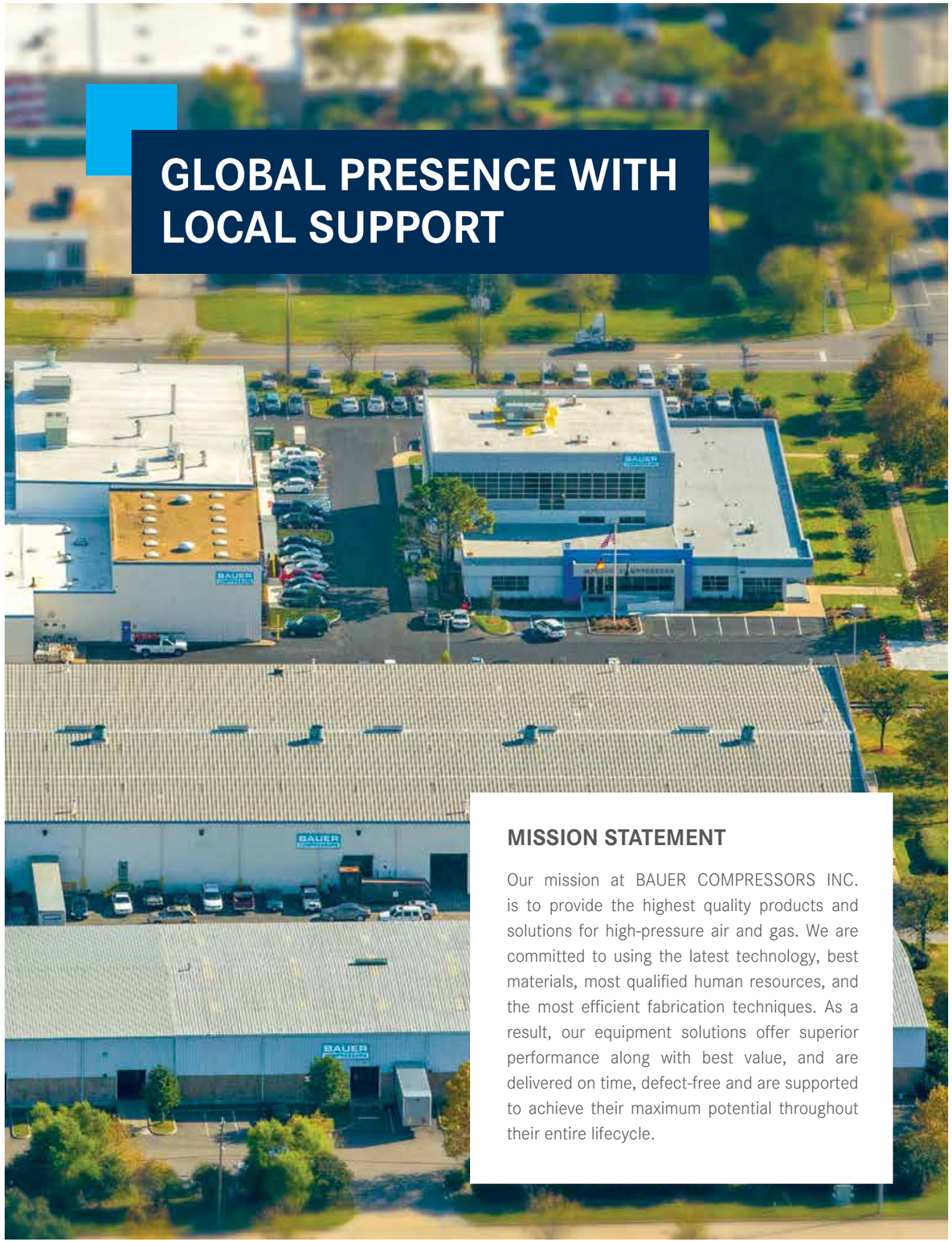




WORLDWIDE QUALITY INNOVATION RELIABILITY

npp gov

GLOBAL PRESENCE WITH LOCAL SUPPORT



MISSION STATEMENT

Our mission at BAUER COMPRESSORS INC. is to provide the highest quality products and solutions for high-pressure air and gas. We are committed to using the latest technology, best materials, most qualified human resources, and the most efficient fabrication techniques. As a result, our equipment solutions offer superior performance along with best value, and are delivered on time, defect-free and are supported to achieve their maximum potential throughout their entire lifecycle.

BAUER Corporate Headquarters: North American Manufacturing – Norfolk, Virginia



DISTRIBUTOR NETWORK

Supporting you after the sale is a global network of compressor specialists that is unmatched in the industry. Each of our trusted Distributor partners is staffed with BAUER Factory-Trained Technicians and is stocked with a full inventory of products and parts – insuring you receive unsurpassed 24/7 Customer Support, no matter where you are in the world.

Additionally, BAUER has U.S. Sales & Service operations that include branch offices in California and New York.

OUR EXPERIENCE. YOUR BENEFIT.

Our 75 years of experience continues to be a benefit to our worldwide customers by providing them with a diverse selection of field-proven high-pressure breathing air solutions. We are world renowned for reliability and durability, and BAUER as a company is recognized as the world's foremost innovative designer and manufacturer of high-pressure compressors of the very highest quality.

BAUER's state-of-the-art 250,000 square-foot facility in Norfolk, Virginia means we can stand behind all of the research and development in our breathing-air systems, which are made right here in the U.S.A.

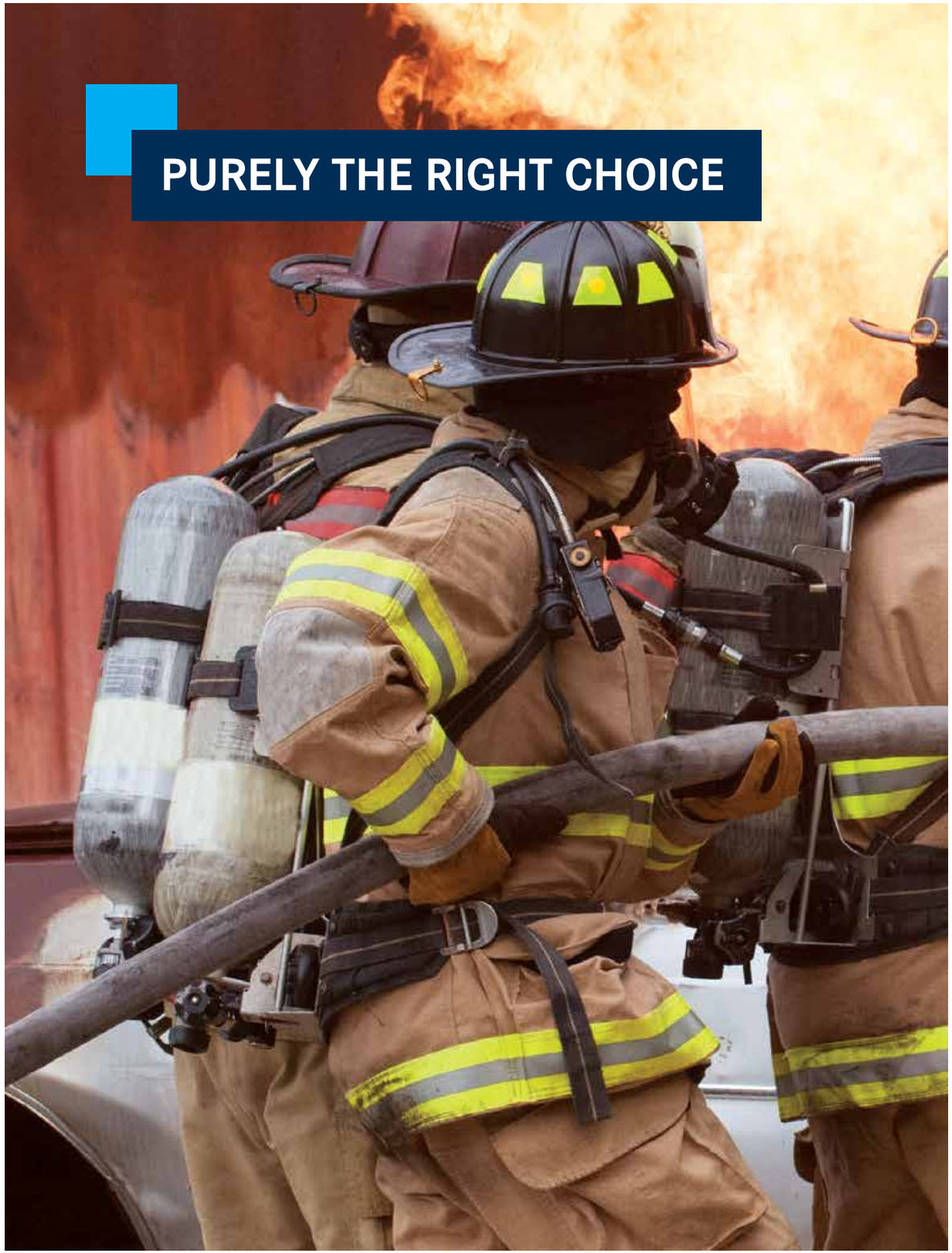
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SINGLE SOURCE RESPONSIBILITY

LOW COST OF OWNERSHIP

LIFECYCLE PERFORMANCE





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VERTECON®

3-, 4-, AND 5-STAGE OPEN HIGH-PRESSURE BREATHING AIR COMPRESSORS

BAUER's VERTECON® series of high-pressure breathing air compressor systems have been an industry leader for many years. We combined the simplistic platform with an economical design, featuring the latest BAUER technological enhancements. The series now features an integral base that eliminates the guesswork of product placement, ensuring the system has been installed correctly for system ventilation and maintenance accessibility. With the advent of the integral base, the compressor package can also have a sound attenuated enclosure optionally installed at a later date. A refreshed HMI operations panel and electrical control system allow you to tailor the system to your specific requirements. When simple is what you want, look to BAUER.

- **PRESSURE:**
  Up to 6000 PSIG
  (414 BAR)
- **CHARGING RATE:**
  5 to 26.4 SCFM
  (142 to 748 L/MIN)
- **POWER:**
  5 to 20 HP (3.7 to 15 kW)



› VERTECON

DIVE FIRE

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system
- Open vertical cabinet made of formed sheet and plate goods provide a firm foundation for all pressure bearing components
- Modern design with unsurpassed maintenance accessibility (no hand tools are required for normal maintenance checks and fluid level confirmation)
- BAUER PLC based controller with 7" color HMI touchscreen display
- Belt adjustment tool
- NEMA 4 rated electrical enclosure with UL® listed control panel
- All wiring harnesses incorporated within a corrugated loom with number coding for easy system diagnosis
- Emergency stop push button
- .049 wall thickness stainless steel tubing throughout; no cheap plastic tubing
- Rugged powder coat finish
- Zero loss automatic condensate drain system
- Interstage pressure gauges (locally mounted)
- Compressor on/off, final pressure, oil pressure and high-temperature shutdown
- Motor overload indication
- Final separator counter with shutdown and operator indication
- Unique integrated positioning base which ensures correct installation every time

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- B-SECURUS - Electronic moisture monitoring for the purification system
- B-Kool (floor mount only)
- H_2S monitoring system with audible alarm

SYSTEM FOOTPRINT

VEC05 - VEC13:

DIMENSIONS L X W X H inches (mm)

- 54" x 34" x 56" (1372.6mm x 863.6mm x 1422.4mm)
- **WEIGHT pounds (kg)**
- 800 - 900 lb (363 - 408.2 kg)

VEC18 - VEC26:

DIMENSIONS L X W X H inches (mm)

- 54" x 34" x 63" (1372.6mm x 863.6mm x 1600.2mm)
- **WEIGHT pounds (kg)**
- 1200 - 1300 lb (544.3 - 589.7 kg)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
5000 PSIG (345 BAR)								
VEC08-E1/E3	8.4	238	3	7.5	5.6	7	1250	P31
VEC20-E3	21	595	4	15	11	17.5	1300	P5
VEC26-E3	26.4	748	4	20	15	22	1350	P5
6000 PSIG (414 BAR)								
VEC05-E1/E3	5	142	3	5	3.7	4	1050	P2
VEC10-E1/E3	9.7	275	4	7.5	5.6	8.1	1180	P2
VEC13-E1/E3	13	368	4	10	7.5	10.8	1420	P2
VEC18-E3	18	510	4	15	11	15	1325	P5
VEC25-E3	25.2	714	5	20	15	21	1300	P5

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
E1= Single phase electric, 230 VAC/60 Hz. E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. Dimensions and weight are approximate and are subject to change.

DIVE FIRE

DIVE FIRE

VERTICUS®

3-, 4-, AND 5-STAGE ENCLOSED HIGH-PRESSURE BREATHING AIR COMPRESSORS

The days of “Breadbox” designed compressor packages are over! Step up to the BAUER VERTICUS®. The updated, sound-attenuated cabinet is equipped with an aesthetically pleasing operations panel, ensuring easy access to the drive belts. Vertically hinged and lift-off side access doors incorporate fast pin technology for fast removal of the doors for maintenance – no hand tools required! The rear panel incorporates integral handles and a tabbed lift-off design. The front access door includes a hex-keyed latch to eliminate any accidental door openings while the system is operating. Sound attenuation has been incorporated on every possible panel to provide a nice and quiet operating level of approximately 72 dB (within one meter). One package size accommodates BAUER high-pressure air-cooled compressors from 5 to 20 Hp motors. Our new, larger, 7” HMI enhances the monitoring of system functions.

- **PRESSURE:**
  Up to 6000 PSIG
  (414 BAR)
- **CHARGING RATE:**
  5 to 26.4 SCFM
  (142 to 748 L/MIN)
- **POWER:**
  5 to 20 HP (3.7 to 15 kW)



› VERTICUS

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC based controller with 7” color HMI touchscreen display
- NEMA 4 rated electrical enclosure with UL® listed control panel
- Compressor low oil pressure and high-temperature safety shutdowns
- Emergency stop push button and automatic start/stop control
- Zero loss automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic “Full” indication and compressor shutdown
- Interstage pressure gauges (locally mounted)
- Vertically hinged front operations panel and lift-off side maintenance access doors
- Inlet filter maintenance indicator
- Unique hinged front operations panel

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- B-Kool
- H_2S monitoring system with audible alarm

SYSTEM FOOTPRINT

VERTICUS:
VAC5 - VAC26

DIMENSIONS L X W X H inches (mm)

- 55” x 35” x 70” (1397mm x 737mm x 1778mm)

WEIGHT pounds (kg)

- 1000 - 1400 lb (453.6 - 635 kg)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
5000 PSIG (345 BAR)								
VAC20-E3	21	595	4	15	11	17.5	1300	P5 B-SECURUS
VAC26-E3	26.4	748	4	20	15	22	1350	P5 B-SECURUS
6000 PSIG (414 BAR)								
VAC5-E1/E3	5	142	3	5	3.7	4	1050	P2 B-SECURUS
VAC08-E-1/E3	8	227	3	7.5	5.6	7	1450	P2 B-SECURUS
VAC10-E1/E3	9.7	275	4	7.5	5.6	8.1	1180	P2 B-SECURUS
VAC13-E1/E3	13	368	4	10	7.5	10.8	1420	P2 B-SECURUS
VAC18-E3	18	510	4	15	11	15	1325	P5 B-SECURUS
VAC25-E3	25.2	714	5	20	15	21	1300	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
3) 30 HP units are in a cabinet other than depicted.
E1= Single phase electric, 230 VAC/60 Hz. E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. Dimensions and weight are approximate and are subject to change.

7000 PSIG Breathing Air Systems



FIRE

7000 PSIG HIGH-PRESSURE BREATHING AIR COMPRESSORS SYSTEMS

As SCBA working pressures increase, so must the fire department's high-pressure breathing air compressor system. If left unchecked, the department runs the risk of not supporting their breathing air demand for grade "E" breathing air. BAUER Compressors is the first company in the industry to offer a wide and varied product portfolio to meet your specific needs. We start with a performance-proven BAUER air-cooled high-pressure compressor designed, built, and rated for continuous duty operations at 7000 PSIG. The compressor has been in existence long before others. It has proven itself since 1992 in the high-pressure, non-breathing air market where up-time demands are far more stringent than the breathing air market. We couple the compressor to one of our BAUER high-pressure breathing air purification systems, designed for continuous operations at 7000 PSIG while meeting the Compressed Gas Association's rigorous breathing air quality standards for grade "E" air and/or the National Fire Protection Association (1989 standard for high-pressure breathing air) along with many other recognized global standards.

BAUER Compressors offers two (2) models of 7000 PSIG compressor packages, each outfitted to meet your specific requirements. A simplistic component system utilizing one of our VERTECON® compressor packages. Along with an independently tested and verified CFS5.5®-3S or CFS5.5®-2S SCBA containment fill station and an ASME coded air storage system; Or step up to either a UNICUS® 4S or UNICUS® 4i All-In-One compressor package, each outfitted to meet your specific needs. No matter which compressor system you select, rest assured all of the components were chosen in strict adherence to NFPA 1901-2016 edition, calling for a 4:1 structural safety factor.

VERTECON®

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system
- Open vertical cabinet made of formed sheet steel providing a firm foundation for all pressure bearing components
- Modern design with unsurpassed maintenance accessibility (no hand tools are required for normal maintenance checks and fluid level confirmation)
- BAUER PLC based controller with 7" color HMI touchscreen display
- Self-adjusting drive belt tensioner
- NEMA 4 rated electrical enclosure with UL® listed control panel
- All wiring harnesses incorporated within a corrugated loom with number coding for easy system diagnosis
- Emergency stop push button
- Stainless steel tubing throughout, no cheap plastic tubing
- Rugged powder coat finish
- Automatic condensate drain system with integral reservoir level sensor to provide system shutdown when the reservoir is full
- Interstage pressure gauges (locally mounted)
- SECURUS Moisture Monitor



SYSTEM FOOTPRINT

DIMENSIONS L X W X H inches (mm)

- 54" x 34" x 63" (1372mm x 864mm x 1600mm)

WEIGHT pounds (kg)

- 1075 lb (488 kg)

PLC CONTROLLER

- Compressor on/off, final pressure, oil pressure, high temperature shutdown
- Supports automatic condensate drain system
- Motor overload indication
- Final separator counter with shutdown and operator indication

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- H_2S monitoring system

TECHINICAL DATA

Model	Block	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
		SCFM	L/MIN		HP	kW			
7000 PSIG (476 BAR)									
VTC-7K/20	IK18.1II	20	566	5	20	15	17	1300	P5 B-SECURUS
VTC-7K/15	IK15.11	13	368	4	15	11	11	960	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig. 2) Compressor capacity referenced to standard inlet conditions.
E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request.

FIRE



› CFS5.5®-3S



› CFS5.5®-2S

FIRE

CFS5.5®

STANDARD SCOPE OF SUPPLY

- Complete with SCBA fill connection, fill hose and bleed valve
- Fill control panel with an adjustable regulator, relief valve, manual control valve and pressure gauge for each fill position
- Convenient door handle actuation, bottom venting and reduced footprint
- Hands-free door interlock
- Compliant with NFPA 1901 2016 Edition
- Four bank dual function cascade controls
- Air direction valve

SYSTEM FOOTPRINT

CFS5.5®-3S

DIMENSIONS L X W X H inches (mm)

- 41” x 21” x 57” (1041mm x 533mm x 1448mm)

WEIGHT pounds (kg)

- 1000 lb (454 kg)

CFS5.5®-2S

DIMENSIONS L X W X H inches (mm)

- 30” x 21” x 57” (762mm x 533mm x 1448mm)

WEIGHT pounds (kg)

- 750 lb (390.2 kg)

TECHINICAL DATA

Model	Description
CFS5.5®-3S	Three position CFS equipped with inlet pressure gauge adjustable regulator, regulated pressure gauge, fill control valve and fill pressure gauges. Unit will consist of Dual function, top mount, four bank cascade panel. The dual function feature offers the ability to refill a storage bank, even with the bank valve closed, while filling SCBA's from another bank. It also includes an air direction valve allowing the operator to select “fill from storage” or “fill from compressor”, additionally the system includes a regulated remote fill outlet.
CFS5.5®-2S	Two position CFS equipped with inlet pressure gauge adjustable regulator, regulated pressure gauge, fill control valve and fill pressure gauges. Unit will consist of Dual function, top mount, four bank cascade panel. The dual function feature offers the ability to refill a storage bank, even with the bank valve closed, while filling SCBA's from another bank. It also includes an air direction valve allowing the operator to select “fill from storage” or “fill from compressor”, additionally the system includes a regulated remote fill outlet.

AIR STORAGE

STANDARD SCOPE OF SUPPLY

- The scope of supply for the ASME cylinder assembly includes four ASME coded cylinders, an ASME safety relief valve, cylinder valve and drain valve for each cylinder
- Assemblies are designed to be used with a BAUER four-bank cascade panel. Gauges are not included on the individual cylinders as they are on the cascade pane.
- ASME-7K-3:1 is a heavy-duty, welded steel rack designed for vertical cylinder configuration for stationary or mobile applications. Each cylinder is independently affixed to the rack with unistrut type clamps
- ASME-7K-4:1 is a heavy-duty, welded steel rack designed for horizontal cylinder configuration for stationary applications. Each cylinder is independently affixed to the rack with clamps

SYSTEM FOOTPRINT

ASME-7K-3

DIMENSIONS L X W X H inches (mm)

- 52” x 17.5” x 69.5” (1320.8mm x 444.5mm x 1765.3mm)

WEIGHT pounds (kg)

- 2000 lb (3220 kg)

ASME-7K-4

DIMENSIONS L X W X H inches (mm)

- 95” x 34” x 44” (2413mm x 864mm x 1118mm)

WEIGHT pounds (kg)

- 7100 lb (3220 kg)



› ASME-7K-3:1

TECHINICAL DATA

Model	Description
ASME - 7K-3:1	4 Cylinder System with maximum operating pressure of 7000 PSIG installed in a vertical rack. System shall provide a 3:1 structural safety factor
ASME - 7K-4:1	4 Cylinder System with maximum operating pressure of 7000 PSIG installed in a horizontal rack. System shall provide a 4:1 structural safety factor

FIRE

7000 PSIG ALL IN ONE SYSTEM: UNICUS®4S & 4i

BAUER COMPRESSORS, INC. is the first company to offer a fully unitized compressor system built for 7000 PSIG service. Let's start with continuous duty BAUER 7000 PSIG compressors, which were in existence well before others put pen to paper. We couple the compressor to a BAUER high pressure breathing air purification system that meets the rigorous CGA, NFPA, and many other global standards for high pressure breathing air. A sound attenuated cabinet enclosure incorporates a four (4) cylinder 7000 PSI ASME air storage system along with an NFPA compliant 3-positon containment SCBA fill station. Operations and systems functions are simplified with everything located on a centrally located and illuminated operations panel, including an ergonomic and intuitive HMI touchscreen.

Additionally, we are offering you two (2) modes of operation, analog or automatic. The UNICUS® 4S is your choice for all things manually controlled. Should your department wish the automated path, select the UNICUS® 4i. If you want to dress your unit in concert with the Fire Departments theme, ask about our Fire Edition package. Look to BAUER COMPRESSORS when your department needs the best all-in-one compressor system on the market today, backed by our global network of service partners.

FIRE

- **PRESSURE:** Up to 7000 PSIG (483 BAR)
- **CHARGING RATE:** 13 to 20 SCFM (368 to 566 L/MIN)
- **POWER:** 15 to 20 HP (11 to 15 kW)



- UNICUS® 4i

OPTIONAL



UNICUS® 4i
FIRE EDITION
OPTIONAL FIRE EDITION PAINT SCHEME (SHOWN HERE)

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC based controller with 7" color HMI touchscreen display on 4S; 15" HMI on 4i
- NEMA 4 rated electrical enclosure with UL® listed control panel
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Hinged cascade fill control panel with Lexan laminate air flow/fill schematic
- Audible alarm on safety shutdowns
- Inlet filter maintenance indicator
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic "Full" indication and compressor shutdown
- Four (4) ASME 7000 PSI code stamped air cylinders; Cylinders are rated with a 3:1 SF
- Sound attenuating enclosure with slam-action latches and lift-off type hinges
- NFPA 1901 2016 edition compliant 3 position containment fill station accommodates SCBA or SCUBA cylinders up to 31" overall length
- Manually controlled dual-function 4 bank cascade controls with air direction valve are standard on the 4S models; Automatic cascade controlled logic is standard on the 4i models

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- BAUER RFIDPro™ SCBA data logging (UNICUS 4S)
- RFID data tags (UNICUS 4i & UNICUS 4S)
- RFID SCBA data logging intergrated into fill station (UNICUS 4i)
- 100 ft high-pressure cabinet enclosed hose reel
- Panel mounted remote fill hose connection
- Dual Fill-all SCBA positions
- Tri Fill-all SCBA positions

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm)
- 101" x 38" x 80" (2565mm x 965mm x 2032mm)

WEIGHT pounds (kg)
- 4350 - 4550 lb (1973 - 2064 kg)

FIRE

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
7000 PSIG (483 BAR)								
UN 4S-15/7K	13	368	4	15	11	10.8	960	P5 B-SECURUS
UN 4S-20/7K	20	566	5	20	15	17	1300	P5 B-SECURUS
UN 4i-15/7K	13	368	4	15	11	10.8	960	P5 B-SECURUS
UN 4i-20/7K	20	566	5	20	15	17	1300	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig. 2) Compressor capacity referenced to standard inlet conditions.
E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. Dimensions and weight are approximate and are subject to change.

OPTIONAL ACCESSORIES - 7000 SERIES UNICUS 4S & UNICUS 4I

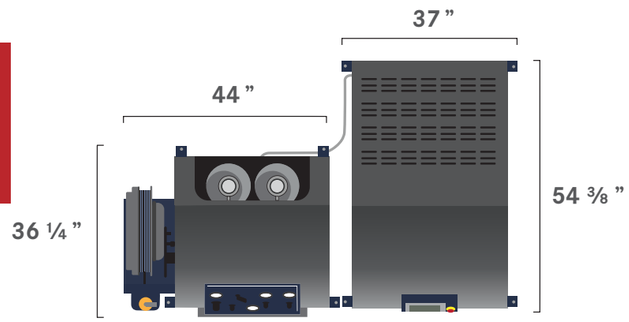
Item	Description	
0001	BAUER Gas-Tek™ Electronic carbon monoxide monitor complete with calibration kit wired for alarm and shutdown. (calibration gas included)	GT/CO/III
0002	Panel mounted remote fill hose connection. Includes bulkhead fitting, adjustable regulator for up to 6000 PSIG service, gauge, isolation valve and quick connect/disconnect fitting (hose no included)	/RF/REG
0003	UN4 remote fill hose connection including adjustable regulator for up to 6000 PSIG service, gauge and isolation valve connected to a cabinet enclosed hose reel with 100 feet of hose rated for 6000 PSIG service	UN4/RF/REL-9
0004	DUAL-FILL, high/low, quick connect fill system (specify fill presures)	DUAL-FILL/3 position
0005	TRI-FILL, high/low/SCUBA, quick connect fill system (specify fill pressures)	TRI-FILL/3 position
0006	Fire Edition paint scheme	
FOR UNICUS® 4i ONLY		
0007	RFID SCBA Data Logging	RFID4i
0008	RFID DATA TAGS Each Kit inclues 25-each tags	KIT-0557

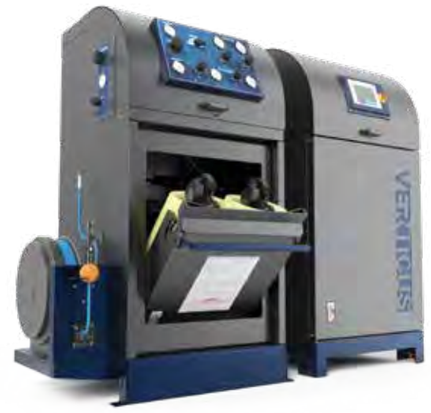
PLUS MODULE

3- AND 4-STAGE MULTI-FUNCTIONAL HIGH-PRESSURE BREATHING AIR COMPRESSORS VERTICUS PLUS®

The same package amenities found in the VERTICUS® high pressure breathing air compressor system, plus a free-standing aesthetically pleasing multi-functional fill station module, are combined to create the BAUER VERTICUS PLUS®. BAUER's performance-proven CFS5.5®-2S NFPA compliant containment fill station; two (2) bank dual function cascade controls; integral air storage rack with two (2) UN/ISO code air storage cylinders; 3-way selector valve to select either air from the compressor or onboard air storage system all come together creating the ultimate fill station. Install the two (2) modules side by side as an all-in-one configuration or apart based on the installation site specifics. Flexibility is the key; look to BAUER to unlock the possibilities.

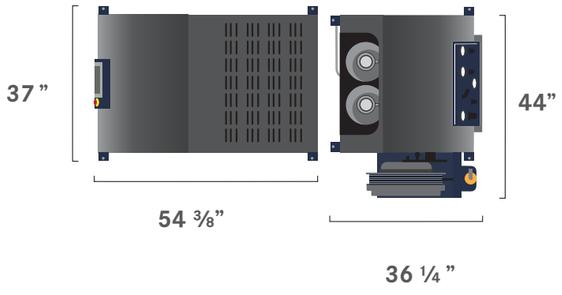
› CONFIGURATION 1





Fill station module showing optional hose reel

› CONFIGURATION 2





Fill station module showing optional hose reel

NOW AVAILABLE IN TWO NEW EXCITING OFFERINGS!

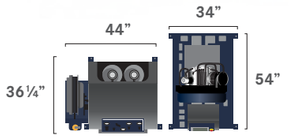
VERTECON® PLUS

BAUER's series of high-pressure breathing air compressor systems have been an industry leader for many years. An economical design featuring the latest BAUER technological enhancements and unsurpassed maintenance accessibility is incorporated within the simplistic platform. The series now features an integral base that eliminates the guesswork of product placement, ensuring the system has been installed correctly for system ventilation and maintenance accessibility.

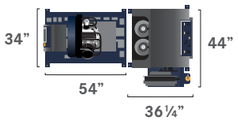
Matched with the VERTECON® Compressor is the CFS5.5®-2/PLUS: A two-position Fully NFPA Compliant (1901 & 1989) SCBA/SCUBA Fill Station. The CFS5.5®-2/PLUS includes an attractive, ergonomically designed, two-bank Cascade Fill Control Panel and an integral air storage system consisting of two 6000 PSIG UN/ISO air storage cylinders. The VERTECON® PLUS System can be further enhanced by the substitution of ASME air storage cylinders in lieu of UN and the addition of the optional Regulated Remote Fill Outlet, including a high-pressure hose reel and 100 ft. of 6000 PSIG High-Pressure Hose!



Fill station module showing optional hose reel



› CONFIGURATION 1



› CONFIGURATION 2

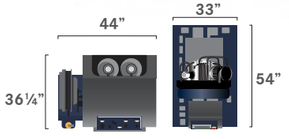
BAUER LEGACY® PLUS

The BAUER LEGACY™ Series built in the rugged and proven VERTECON® Frame offers "Back To Basics Simplicity" while still incorporating PLC Control! Replacing the HMI/Touchscreen will be a simple, illuminated On/ Off Switch and a set of flashing indicator lamps; the lamps will flash a code representing fault warnings and shutdowns.

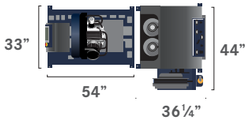
Matched with the BAUER LEGACY™ Compressor is the CFS5.5®-2/PLUS: A two-position Fully NFPA Compliant (1901 & 1989) SCBA/SCUBA Fill Station. The CFS5.5®-2/PLUS includes an attractive, ergonomically designed, two-bank Cascade Fill Control Panel and an integral air storage system consisting of two 6000 PSIG UN/ISO air storage cylinders. The BAUER LEGACY™ System can be further enhanced by the substitution of ASME air storage cylinders in lieu of UN/ISO and the addition of the optional Regulated Remote Fill Outlet including a high-pressure hose reel and 100 ft. of 6000 PSIG High-Pressure Hose!



Fill station module showing optional hose reel



› CONFIGURATION 1



› CONFIGURATION 2

0320-E/D

4-STAGE HIGH PRESSURE BREATHING AIR COMPRESSORS

The 0320-E/D series of compressors are your solution for onshore and offshore applications when an efficient compressor is required for the budget consciousness oil and gas market. Corrosion resistant components, which are assembled and tubed with stainless steel fasteners and fittings, make the 0320-E/D an ideal choice when a robust compressor is required for the extremes of the drilling environment. Enhanced purification and diesel engine upgrades allow us to have third party certification for operations at temperatures up to 55°C (131°F).

- **PRESSURE:**
  Up to 6000 PSIG (414 BAR)
- **CHARGING RATE:**
  13 SCFM (368 L/MIN)
- **POWER:**
  10 to 18 HP (7.5 to 13 kW)



0320-E/D
(SHOWN WITH OPTIONAL CO AND H_2S MONITORS)



STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system
- TEFC motor
- NEMA 4 rated electrical enclosure with **UL®** listed control panel
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float switch and automatic “Full” indication and compressor shutdown
- Gauge panel
- Lifting eyes integral to unit frame
- Inlet particulate filter and maintenance indicator
- On/off switch and final air pressure switch
- Powder coated aluminum frame and cabinet enclosure
- 316 stainless steel tubing
- Stainless steel fittings, fixtures and fastening devices
- 3rd party certified for operations at 55°C

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- CO monitoring system
- SECURUS - Electronic moisture monitoring for the purification system
- H_2S monitoring system with audible alarm

SYSTEM FOOTPRINT

DIMENSIONS L X W X H inches (mm)

- 61” x 37” x 41” (1549.4mm x 940mm x 1041.4mm)

WEIGHT pounds (kg)

- 650 - 750 lb (295 - 340 kg)

DIESEL ENGINE DRIVEN MODELS

- Name plated for operations at 55°C
- Air-cooled diesel
- Electric clutch and speed control solenoid
- Spark arrestor muffler
- Anti-vibration mounts for engine

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
6000 PSIG (414 BAR)								
0320-D	13	368	4	18	13	10.8	1420	P2
0320-E	13	368	4	10	7.5	10.8	1420	P2

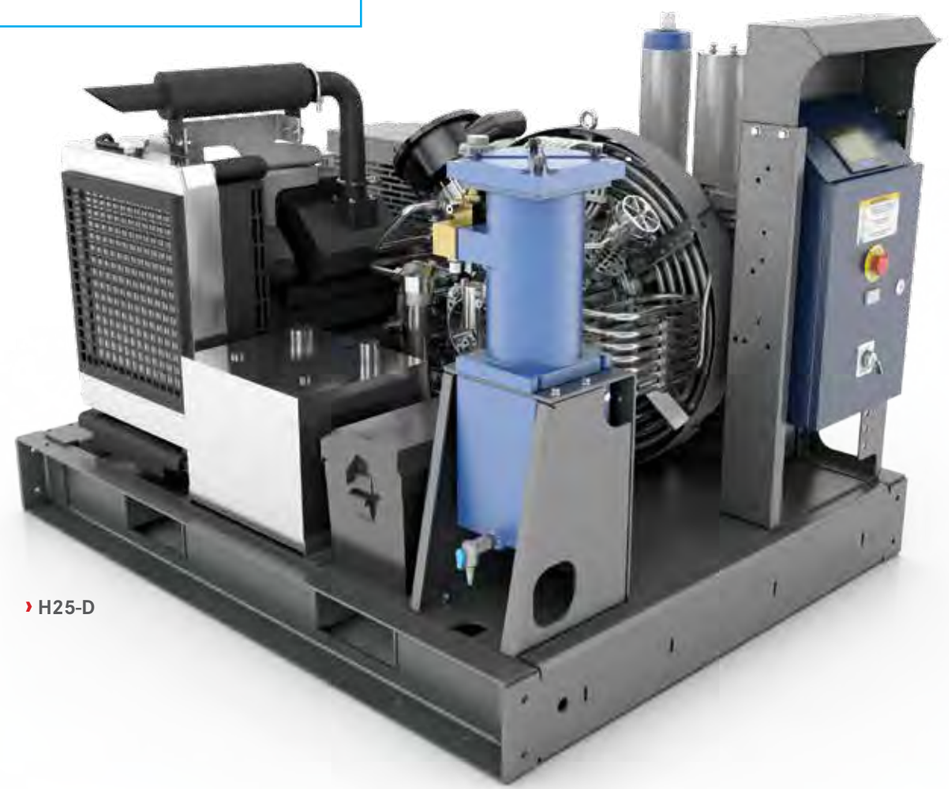
1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
D=Diesel engine driven. E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. Dimensions and weight are approximate and are subject to change.

ENGINE DRIVEN

4- AND 5-STAGE HIGH-PRESSURE BREATHING AIR COMPRESSORS

The ENGINE DRIVEN compressor for recharging SCBA or SCUBA cylinders combines compressor, purification system, and engine drive. The frame's rugged design is specific to the requirements of the engine drive/compressor block assembly.

- **PRESSURE:**
  Up to 6000 PSIG (414 BAR)
- **CHARGING RATE:**
  13 to 60 SCFM
  (368 to 1700 L/MIN)
- **POWER:**
  18 to 60 HP (13 to 45 kW)



› H25-D

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC base controller with four line text display
- NEMA 4 rated electrical enclosure with hourmeter
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic "Full" indication and compressor shutdown
- Interstage pressure gauges
- Electric start package including electric clutch and speed control solenoid
- Closed loop water-cooled diesel

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- H_2S monitoring system

SYSTEM FOOTPRINT

H13-K26:

DIMENSIONS L X W X H inches (mm)

- 63" x 49" x 46" (1600mm x 1245mm x 1168mm)

WEIGHT pounds (kg)

- 1300 - 3750 lb (590 - 1700 kg)

H35-K42:

DIMENSIONS L X W X H inches (mm)

- 95" x 52" x 49" (2413mm x 1320mm x 1245mm)

WEIGHT pounds (kg)

- 1300 - 3750 lb (590 - 1700 kg)

K60:

DIMENSIONS L X W X H inches (mm)

- 112" x 52" x 53" (2845mm x 1346mm x 1320mm)

WEIGHT pounds (kg)

- 1300 - 3750 lb (590 - 1700 kg)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
5000 PSIG (345 BAR)								
K20-D	21	595	4	27	20	17.5	1300	P5 B-SECURUS
K26-D	26.4	748	4	27	20	22	1350	P5 B-SECURUS
K42-D	42	1190	4	44	33	35	1300	P10 B-SECURUS
K60-D	60	1700	4	60	45	50	1350	P12 B-SECURUS
6000 PSIG (414 BAR)								
H13-D	13	368	4	18	13	10.8	1420	P2 B-SECURUS
H18-D	18	510	4	27	20	15	1325	P5 B-SECURUS
H25-D	25.2	714	5	27	20	21	1300	P5 B-SECURUS
H35-D	35.9	1017	4	44	33	29.8	1200	P10 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.

FIRE

TCOM® TRAILER

4- AND 5-STAGE HIGH-PRESSURE MOBILE BREATHING AIR RECHARGING SYSTEMS

When your needs require a rugged trailer built for the fire service, rather than a cheap lightweight imitation, look to BAUER. Our TCOM® TRAILER designs are powered by a unique diesel/electric dual drive system. Each system is equipped with a 2 position containment fill station, an enclosed fill control panel, four ASME storage cylinders and integral SCBA storage for up to twelve SCBA cylinders all incorporated onto a heavy duty frame built by BAUER.

- **PRESSURE:**
  6000 PSIG (414 BAR)
- **CHARGING RATE:**
  13 to 25.2 SCFM (368 to 714 L/MIN)
- **ELECTRIC MOTOR:**
  10 to 20 HP (7.5 to 15 kW)
- **DIESEL ENGINE (**EPA Tier 4 Compliant)**:**
  27 to 37 HP (20 to 27 kW)



- **TCOM TRAILER**

FIRE

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC based controller with four line text display
- NEMA 4 rated electrical enclosure with UL® listed control panel
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic “Full” indication and compressor shutdown
- Four (4) 6000 PSIG ASME code stamped air cylinders
- Integral SCBA storage for up to twelve (12) SCBA cylinders
- NFPA 1901 2016 edition compliant 2 position containment fill station accommodates SCBA or SCUBA cylinders up to 31” overall length
- Unique diesel/electrical dual drive system incorporating our exclusive automatic belt tensioning system
- High gloss powder coat paint for a hard durable finish
- Hydraulic surge brakes with breakaway actuator
- Four (4) bank dual function cascade controls with air direction valve
- Formed structural steel frame designed and built by BAUER
- Rolled shutter door protection for the operations panel and fill station
- Refill port
- BAUER Gas-Tek™ CO monitoring system with calibration kit
- Lunette eye hitch

SYSTEM FOOTPRINT

DIMENSIONS L x W x H* inches (mm)

- 200” x 90” x 105”* (5080mm x 2286mm x 2267mm)

WEIGHT pounds (kg)

- 8400 lb (3810 kg)

* with optional light mast

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- **Option Package A** - Telescoping light mast with four (4) 500 watt fixtures, snorkel tube for compressor air inlet integrated with light mast and 7500 watt auxiliary generator
- **Option Package B** - Spare tire and wheel chocks with fender well storage
- **Option Package C** - 100 ft hose reel and interior lights
- **Option Package D** - 2 5/16” ball hitch
- **Option Package E** - 100 ½” L x 5 ½” H sign boards

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor/Engine		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
6000 PSIG (414 BAR)								
TCOM-13H	13	368	4	10 - 27	7.5 - 20	10.8	1420	P5 B-SECURUS
TCOM-25H	25.2	714	5	20 - 37	15 - 27	21	1300	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
Image shown with additional accessories. Dimensions and weight are approximate and are subject to change.

FIRE

TCOM LITE®

4- AND 5-STAGE HIGH-PRESSURE MOBILE BREATHING AIR RECHARGING SYSTEMS

If your needs do not require the amenities of the full-sized TCOM® look to the TCOM LITE®. Designed and manufactured by BAUER for the budget minded customer, the TCOM LITE® utilizes a multi-stage air-cooled compressor coupled to a water-cooled diesel engine (EPA Tier 4 compliant). Our aesthetically pleasing enclosure encompasses the compressor system from inclement weather and road debris and the heavy-duty frame provides a firm foundation for up to four air storage cylinders. The single axle design enhances mobility with most smaller vehicles.

- **PRESSURE:**
  6000 PSIG (414 BAR)
- **CHARGING RATE:**
  13 to 25.2 SCFM (368 to 714 L/MIN)
- **POWER:**
  18 to 27 HP (13.4 to 20 kW)

FIRE



TIER 4 COMPLIANT

› TCOM LITE

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC based controller with four line text display
- NEMA 4 rated electrical enclosure
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic “Full” indication and compressor shutdown
- Two (2) 6000 PSIG UN code stamped air cylinders
- NFPA 1901 2016 edition compliant 2 position containment fill station accommodates SCBA or SCUBA cylinders up to 31” overall length
- Unique diesel drive system incorporating our exclusive automatic belt tensioning system
- High gloss powder coat paint for a hard durable finish
- Hydraulic surge brakes with breakaway actuator
- Four (4) bank dual function cascade controls with air direction valve
- Formed structural steel frame designed and built by BAUER
- Hypalon® type cover protection for the operations panel and fill station
- Refill port
- BAUER Gas-Tek™ CO monitoring system with calibration kit
- 2” ball hitch

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm)

- 144” x 77” x 72” (3658mm x 1956mm x 1830mm)

WEIGHT pounds (kg)

- 5400 lb (2450 kg)

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- **Option Package A** - Spare tire with cover
- **Option Package B** - 100 ft hose reel and interior lights
- **Option Package C** - Lunette eye hitch
- **Option Package D** - Two (2) additional 6000 PSIG UN code stamped air cylinders
- **Option Package E** - Two (2) ASME cylinders in lieu of standard Two (2) UN cylinders

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
6000 PSIG (414 BAR)								
TCL-13H	13	368	4	18	13.4	10.8	1420	P5 B-SECURUS
TCL-25H	25.2	714	5	27	20	21	1300	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
Image shown with additional accessories. Dimensions and weight are approximate and are subject to change.

FIRE

MOBILE PACKAGE

When your department requires the need for a mobile breathing air truck, look no further than BAUER. For 75 years, BAUER has been the industry leader in high pressure breathing air compressor systems. We start with critical components designed, engineered, and manufactured in our factories. Our sales & engineering staff work closely with your truck manufacturer of choice to ensure the entire system meets your department's critical needs. Your closest factory authorized BAUER Partner is brought into the equation to maximize customer satisfaction and support with the product after the truck has been delivered to you.



CUSTOM DESIGNED SYSTEM:

- Up to 7,000 PSIG
- 13 to 35 SCFM (368 to 1017 l/min) Charging Rate
- 10 to 30HP (7.5 to 22kw)
- Electric and diesel driven
- UN and ASME air storage cylinders
- Custom air flow control panels
- NFPA 1901 Approved, 3rd Party Tested Containment Fill Stations
- Proven performance with over 35 years of experience



STANDARD SCOPE OF SUPPLY

- Skid mounted BAUER multi-stage air-cooled compressor.
- BAUER breathing air purification system with B-SECURUS electronic moisture monitoring system.
- BAUER B-drain automatic condensate drain system with integral skid mounted collection reservoir
- BAUER Gas-Tek™ CO monitoring system with calibration kit
- BAUER PLC based controller with 7” color HMI touchscreen display
- NEMA 4 rated electrical enclosure with UL® listed control panel
- Single Phase & Three Phase Electrical Motor Voltage options
- Soft start electronics to reduce initial start-up load on the truck mounted generator system
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Stainless steel interconnecting piping
- Air Storage Refill Port

BAUER CFS5.5® FILL STATIONS:

- Designed & Tested to meet NFPA 1901 2016 Edition Standards
- BAUER CFS5.5® fill stations were tested & passed a 5500 PSIG SCBA rupture with 110 cu ft cylinder
- Our standard fill stations can be supplied in a single, two, or three position configurations
- Dual two & three position fill stations are popular with larger fire departments
- Can accommodate many sized steel & Aluminum Dive Tanks
- Remote Mounted HMI Compressor Controls are integrated into our fill station control panels
- Top or Side Mounted DUAL Function Cascade Control Panels
- Air selector valve to select filling “From Compressor / Fill From Storage”
- ABS Risers located in each fill position to ensure proper height of SCBA cylinder within Fill Station
- Custom Fill Control Panels to include High Pressure & Low-Pressure Hose Reel Controls

AIR STORAGE OPTIONS:

- UN DOT cylinders are rate to 6000 PSIG working pressure
- 10 Year retest requirement for UN/ISO Cylinders.
- ASME coded cylinders rated to 7000 PSIG working pressure (3:1 structural safety factor)
- Safety Relief Valve installed on each ASME Cylinder along with moisture drain valve
- All Cylinders are pre-piped with stainless steel tubing within compressor skid package
- Cylinders can be shipped loose for custom installation within truck body



UNICUS® 4S

4- AND 5-STAGE ALL-IN-ONE HIGH-PRESSURE BREATHING AIR COMPRESSORS

A modern upgrade with the simplicity of analog controls; Aesthetically pleasing yet robust design found only in the UNICUS® 4S All-In-One platform. The system is available in either 5000 or 6000 PSIG with discharge capacities ranging from 13 SCFM charge rate to 26 SCFM charge rate. Unsurpassed maintenance accessibility abounds as we have provided all access doors with snap pin technology – pull the pin and lift the door; no hand tools are required. Should you require access to the back of the operations panel, no problem; we have your back, the panel tilts forward. All requisite panels are equipped with sound attenuated material. An integral rack built to accommodate four (4) storage cylinders is standard, along with the piping. Additionally, we provide two (2) ASME-coded air storage cylinders as a part of the standard scope of supply. If you want to dress your unit up in concert with the Fire Department theme, ask about our Fire Edition package. When your department needs the best All-In-One compressor system on the market today and backed by our global network of service partners, look to BAUER.

FIRE

- **PRESSURE:** Up to 6000 PSIG (414 BAR)
- **CHARGING RATE:** 13 to 25 SCFM (368 to 714 L/MIN)
- **POWER:** 10 to 20 HP (7.5 to 15 kW)



OPTIONAL



UNICUS® 4S
FIRE EDITION
OPTIONAL FIRE EDITION PAINT SCHEME (SHOWN HERE)

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC based controller with 7" color HMI touchscreen display
- NEMA 4 rated electrical enclosure with UL® listed control panel
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Hinged cascade fill control panel with Lexan laminate air flow/fill schematic
- Audible alarm on safety shutdowns
- Inlet filter maintenance indicator
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic "Full" indication and compressor shutdown
- Two (2) ASME code stamped air cylinders installed in an integral rack designed to hold four cylinders
- Sound attenuating enclosure with slam-action latches and lift-off type hinges
- NFPA 1901 2016 edition compliant 3 position containment fill station accommodates SCBA or SCUBA cylinders up to 31" overall length

SYSTEM FOOTPRINT

UN 4S/13H-E1/E3 - UN 4S/26-E3:

DIMENSIONS L X W X H inches (mm)

- 101" x 38" x 80" (2565mm x 965mm x 2032mm)

WEIGHT pounds (kg)

- 4350 - 4550 lb (1973 - 2064 kg)

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- 100 ft high pressure cabinet enclosed hose reel
- Panel mounted remote fill hose connection
- Dual Fill/3 position
- Tri Fill/3 position

FIRE

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
5000 PSIG (345 BAR)								
UN 4S/20-E3	21	595	4	15	11	17.5	1300	P5 B-SECURUS
UN 4S/26-E3	26.4	748	4	20	15	22	1350	P5 B-SECURUS
6000 PSIG (414 BAR)								
UN 4S/13H-E1/E3	13	368	4	10	7.5	10.8	1420	P2 B-SECURUS
UN 4S/18H-E3	18	510	4	15	11	15	1325	P5 B-SECURUS
UN 4S/25H-E3	25.2	714	5	20	15	21	1300	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
E1=Single phase electric, 230 VAC/60 Hz. E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. Dimensions and weight are approximate and are subject to change.

OPTIONAL ACCESSORIES

Item	Description	Part Number
0001	BAUER Gas-Tek™ Electronic carbon monoxide monitor complete with calibration kit wired for alarm and shutdown. (calibration gas included)	GT/CO/III
0002	Each additional ASME 5000 PSIG cylinder with relief valve and mounting clamps	/CYL-9/5K
0003	Each additional ASME 6000 PSIG cylinder with relief valve and mounting clamps	/CYL-9/6K
0003	Panel mounted remote fill hose connection. Includes bulkhead fitting, adjustable regulator for up to 6000 PSIG service, gauge, isolation valve and quick connect/disconnect fitting (hose no included)	/RF/REG
0004	UN4 remote fill hose connection including adjustable regulator for up to 6000 PSIG service, gauge and isolation valve connected to a cabinet enclosed hose reel with 100 feet of hose rated for 6000 PSIG service	UN4/RF/REL-12
0005	DUAL-FILL, high/low, quick connect fill system (specify fill presures)	DUAL-FILL/3 position
0006	TRI-FILL, high/low/SCUBA, quick connect fill system (specify fill pressures)	TRI-FILL/3 position
0007	Fire Edition paint scheme	

INNOVATION
AT YOUR FINGERTIPS



NEWLY REDESIGNED



- Motor ratings from 10 to 20 hp
- Discharge capacity from 13 to 26.4 scfm charge rate
- Industrial grade 15”-HMI/Interactive Touchscreen
- Operational pressures from 5000 to 7000 psig

INCREASED UPTIME
QUICKER AND SECURE ACCESS

Our auto cascade system has replaced all operations panel-mounted valves and pressure gauges which help reduce human error when filling SCBA and SCUBA cylinders.

All system controls are within the panel-mounted HMI and include:

- Airstorage controls
- Independent SCBA fill pressures
- Independent SCBA fill speed
- Automatic cascade control system rated for 7000 psi service
- Secure and quicker way to log into the unit with a BAUER key fob

Manual cascade bypass control comes standard to fill cylinders in case of a system power loss.

Optional Features:

- RFID Reader interface, automatically read & records the SCBA fill event in accordance with NFPA 1989 data collection requirements
- Gas-Tek monitoring systems allow you to tailor the system to your departments specific requirements

FIRE

UNICUS®4i

4- AND 5-STAGE HIGH-PRESSURE BREATHING AIR COMPRESSORS

This game-changing filling station employs our state-of-the-art control system centered around a 15-inch HMI touch screen interface, which allows the operator to manage the entire system from the single-point touch screen. UNICUS®4i has several innovative optional features including BAUER Gas-Tek™ monitoring system, and RFID Reader.

- **PRESSURE:**
  5000 to 6000 PSIG
  (345 to 414 BAR)
- **CHARGING RATE:**
  13 to 26.4 SCFM
  (368 to 748 L/MIN)
- **POWER:**
  10 to 20 HP
  (7.5 to 15 kW)



› **UNICUS® 4i**



› **UNICUS® 4i**
(SHOWING INSIDE FRONT)



› **UNICUS® 4i**
(SHOWING INSIDE BACK)

FIRE

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- **BAUER 15-inch HMI touch-screen** interface
- Solid state auto cascade system
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Ergonomic system-operations panel
- Ergonomically designed stainless steel fill adaptors with integral bleed valve
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic “Full” indication and compressor shutdown
- Two (2) ASME code stamped air cylinders installed in an integral rack designed to hold four cylinders
- NFPA 1901 2016 edition compliant 3 position containment fill station accommodates SCBA or SCUBA cylinders up to 31” overall length

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm)

- 101” x 38” x 80” (2565mm x 965mm x 2032mm)

WEIGHT pounds (kg)

- 4350 - 4550 lb (1973 - 2064 kg)

*Weights are based on a unit equipped with 4 ASMEs

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- **BAUER Gas-Tek™** CO monitoring system
- **RFID Reader** which reads and records data from the RFID equipped cylinders
- Hose reel for 100’ of high pressure breathing air hose
- Reg/RF
- Dual Fill/3 position
- Tri Fill/3 position

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	Purification System
	SCFM	L/MIN		HP	kW		
5000 PSIG (345 BAR)							
UNICUS 4i -26 - E3	26.4	748	4	20	15	22	P5 B-SECURUS
UNICUS 4i -20 - E3	21	595	4	15	11	17.5	P5 B-SECURUS
6000 PSIG (414 BAR)							
UNICUS 4i -13- E1/E3	13	368	4	10	7.5	10.8	P2 B-SECURUS
UNICUS 4i -18- E3	18	510	4	15	11	15	P5 B-SECURUS
UNICUS 4i -25- E3	25.2	714	5	20	15	21	P5 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions. Tolerance +/- 5%

OPTIONAL ACCESSORIES

Item	Description	Part Number
0001	BAUER Gas-Tek™ electronic carbon monoxide monitor complete with calibration kit wired for alarm and shutdown. (calibration gas included)	GT/CO/III
0002	Each additional ASME 5000 PSIG cylinder with relief valve and mounting clamps	/CYL-9/5K
0003	Each additional ASME 6000 PSIG cylinder with relief valve and mounting clamps	/CYL-9/6K
0004	Panel mounted remote fill hose connection. Includes bulkhead fitting, adjustable regulator for up to 6000 PSIG service, gauge, isolation valve and quick connect/disconnect fitting (hose no included)	/RF/REG
0005	UN4 remote fill hose connection including adjustable regulator for up to 6000 PSIG service, gauge and isolation valve connected to a cabinet enclosed hose reel with 100 feet of hose rated for 6000 PSIG service	UN4/RF/REL-12
0006	DUAL-FILL, high/low, quick connect fill system (specify fill presures)	DUAL-FILL/3 position
0007	TRI-FILL, high/low/SCUBA, quick connect fill system (specify fill pressures)	TRI-FILL/3 position
0008	Fire Edition paint scheme	
FOR UNICUS® 4i ONLY		
0009	RFID SCBA Data Logging	RFID4i
0010	RFID DATA TAGS Each Kit inclues 25-each tags	KIT-0557

OPEN DESIGNS

4- AND 5-STAGE HIGH-PRESSURE BREATHING AIR COMPRESSORS

Open packages in horizontal or vertical configurations combine compressor and air purification system in a space saving design. These compressors set the standard for larger capacity requirements.

- **PRESSURE:**
  Up to 6000 PSIG (414 BAR)
- **CHARGING RATE:**
  35.9 to 145 SCFM
  (1017 to 4106 L/MIN)
- **POWER:**
  30 to 100 HP (22 to 75 kW)



› K60

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system
- BAUER PLC based controller with 7" color HMI touchscreen display
- NEMA 4 rated electrical enclosure with UL® listed control panel
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button
- Automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic "Full" indication and compressor shutdown
- Beltguard designed to meet OSHA guidelines
- Soft start, isolation contactor, and circuit breaker providing instantaneous short circuit protection
- Interstage pressure gauges (locally mounted)

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- BAUER Gas-Tek™ CO monitoring system
- B-SECURUS - Electronic moisture monitoring for the purification system (K42V-E3 and K42-E3 only)
- H_2S monitoring system with audible alarm

SYSTEM FOOTPRINT

VERTICAL:

DIMENSIONS L X W X H inches (mm)

- **K42V/H35V:** 65" x 42" x 75" (1667mm x 1051mm x 1905mm)

WEIGHT pounds (kg)

- 1200 - 2800 lb (544 - 1270 kg)

HORIZONTAL:

DIMENSIONS L X W X H inches (mm)

- **K42/H35:** 95" x 44" x 61" (2413mm x 1117mm x 1549.4mm)
- **K60:** 92" x 44" x 61" (2337mm x 1117mm x 1549.4mm)
- **K80/K145:** 116" x 84" x 67" (2946.4mm x 2134mm x 1702mm)

WEIGHT pounds (kg)

- 1200 - 5000 lb (544 - 2268 kg)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
5000 PSIG (345 BAR)								
K42V-E3[3]	42	1190	4	30	22	35	1300	P10
K42-E3[3]	42	1190	4	30	22	35	1300	P10
K60-E3	60	1700	4	40	30	50	1350	P12 B-SECURUS
K80-E3	80.4	2277	4	60	45	67	1225	P14 B-SECURUS
K145-E3	145	4106	4	100	75	121	1125	P14 B-SECURUS
6000 PSIG (414 BAR)								
H35V-E3	35.9	1017	4	30	22	29.8	1200	P10 B-SECURUS
H35-E3	35.9	1017	4	30	22	29.8	1200	P10 B-SECURUS
H80-E3	80.4	2277	5	60	45	67	1180	2x P10 B-SECURUS
H96-E3	96	2718	5	75	56	80	1100	2x P10 B-SECURUS

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
3) SECURUS electronic moisture monitoring is not standard.
E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. KV/HV= VERTICAL. K/H= HORIZONTAL. Dimensions and weight are approximate and are subject to change.

FIRE

PORTABLES

DIVE

3-STAGE HIGH-PRESSURE BREATHING AIR COMPRESSORS

JUNIOR II and OCEANUS – include an air purification system and fill hose. These safe and reliable 3-stage compressors are designed for serious sport divers. Available in 1-phase 115/230 VAC and 3-phase 230/460 VAC electric motor or gasoline drives.

- **PRESSURE:** 5000 PSIG (345 BAR)
- **CHARGING RATE:** 2.9 to 4.9 SCFM (82 to 139 L/MIN)
- **POWER:** 2 to 6 HP (1.5 to 4.5 kW)



ENGINE DRIVE
*Gasoline Engine



ELECTRIC DRIVE



YACHTING PACKAGE

DIVE

STANDARD SCOPE OF SUPPLY

- BAUER P0 breathing air purification system
- Belt guard designed to meet OSHA guidelines
- Inlet filter
- Vibration isolators
- High-temperature switch (G drives)
- Five-foot fill hose assembly with SCUBA yoke, bleed valve and pressure gauge

OCEANUS MODELS (ADD TO ABOVE)

- Sturdy, long lasting low pressure oil pump
- Large oil sump allows shipboard inclination of 30°(20° G drive)
- Capable of filling/maintaining up to a two cylinder 5000 PSIG UN storage system
- Corrosion-resistant coolers and stainless steel frame

YACHTING PACKAGE (ADD TO ABOVE)

- NEMA - 4 electrical box
- Motor starter
- Automatic condensate drain with muffler/separator and condensate reservoir
- Pressure switch
- Stainless steel fittings

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- Visual CO/Moisture monitor indicator
- Final pressure switch for gasoline engine
- Hourmeter/Tachometer (G drive)
- B-Timer

SYSTEM FOOTPRINT

JUNIOR II:

DIMENSIONS L x W x H inches (mm)

- **JRII-E1/E3:** 27” x 14” x 17” (686mm x 356mm x 432mm)
- **JRII-GK:** 31” x 14” x 17” (787mm x 356mm x 432mm)
- **JRII-EY:** 32” x 16” x 24” (813mm x 406.4mm x 610mm)
- **WEIGHT pounds (kg)** 89 - 165 lb (40 - 75 kg)

OCEANUS:

DIMENSIONS L x W x H inches (mm)

- **OCEANUS-E1/E3:** 27” x 17” x 17” (686mm x 432mm x 432mm)
- **OCEANUS-GK:** 31” x 14” x 17” (787mm x 356mm x 432mm)
- **OCEANUS-EY:** 32” x 20” x 17” (686mm x 432mm x 432mm)
- **WEIGHT pounds (kg)** 96 - 135 lb (44 - 61 kg)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System
	SCFM	L/MIN		HP	kW			
JUNIOR II 5000 PSIG (345 BAR)								
JRII-E1/115	2.9	82	3	2	1.5	2.5	1500	P0
JRII-E1	3.9	110	3	3	2.2	3.2	2100	P0
JRII-E3	3.9	110	3	3	2.2	3.2	2100	P0
JRII-GK	4.3	122	3	6	4.5	3.6	2300	P0
JUNIOR II YACHTING PACKAGE								
JRII-E1Y/115	2.9	82	3	2	1.5	2.5	1500	P0
JRII-E1Y	3.9	110	3	3	2.2	3.2	2100	P0
JRII-E3Y	3.9	110	3	3	2.2	3.2	2100	P0
OCEANUS 5000 PSIG (345 BAR)								
OCEANUS-E1	4.9	139	3	5	3.7	4.1	2150	P0
OCEANUS-E3	4.9	139	3	5	3.7	4.1	2150	P0
OCEANUS-GK	4.9	139	3	6	4.5	4.1	2150	P0
OCEANUS YACHTING PACKAGE								
OCEANUS-E1Y	4.9	139	3	5	3.7	4.1	2150	P0
OCEANUS-E3Y	4.9	139	3	5	3.7	4.1	2150	P0

Note: JRII is designed for filling an individual SCUBA or SCBA. It is neither designed nor intended for filling cascade storage systems of any kind. 1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig. 2) Compressor capacity referenced to standard inlet conditions. E1/115= Single phase electric, 115 VAC/60 Hz. E1=Single phase electric, 230 VAC/60 Hz. E3=Three phase electric, 208/230/460 VAC/60 Hz. GK=Gasoline engine drive, KOHLER. Y=Yachting package. Dimensions and weight are approximate and are subject to change.

DIVE

DMT II

3 AND 4-STAGE HIGH-PRESSURE BREATHING AIR COMPRESSORS

We reinvented our BAUER DIVE MATE® product family for 2022. Introducing the new DMT II package. A combination of a high-strength aluminum alloy tubular frame and a formed motor baseplate create a durable foundation for this lightweight, yet robust, package. We have increased the number of compressor offerings and motor drives to allow you to tailor the package to your specific requirements. We challenge you to find a more flexible package or greater variety of amenities: from 8.4 to 13.0 scfm charge rate, three (3) or four (4) stage BAUER compressor and BAUER purification. Electric motor, gasoline, or diesel engine drives allow you to select the mode of power best suited to your specific requirements. Furthermore, we even offer two (2) trim levels to allow you to select the appropriate package, to meet the buyer's needs.

- **PRESSURE:** Up to 6000 PSIG (414 BAR)
- **CHARGING RATE:** 8.4 to 13 SCFM (170 to 368 L/MIN)
- **POWER:** 7.5 to 14 HP (5.6 to 10.4 kW)



› DMT II

TIER 4 COMPLIANT



DIVE

STANDARD SCOPE OF SUPPLY

- Available in three sizes 8,10 &13 SCFM charge rate
  - Choice of prime mover/drive
  - Electric motor, 1-phase or 3-phase
  - Gasoline engine (pull start)
  - Diesel engine (DMTII 08-DY & DMTII 10-DY, EPA Tier 4 Final, Pull start)
- Inlet filter
- Stainless steel intercoolers and aftercooler
- High temperature switch (except D drive)
- Vibration isolators
- P31 Purification for 5000 PSIG systems
- P41 Purification for 6000 PSIG systems
- Low oil pressure switch (electric drive)
- Motor starter with NEMA 4 enclosure (electric drive units)
- Hourmeter (electric and gasoline drive) or Vibration type (diesel drive)
- Final pressure switch (electric & gasoline drive)
- Visual CO/moisture indicator
- Lifting handles
- Tubular aluminum frame

DMT II ELITE (ADD TO ABOVE)

- Interstage gauges
- Automatic condensate drain
- Electric start and low oil pressure switch for gasoline drive units.

AVAILABLE ACCESSORIES (DEALER/CUSTOMER INSTALLED)

- Wheel kit

SYSTEM FOOTPRINT

DIMENSIONS L X W X H inches (mm)

- 48" x 32" x 28" (1219mm x 819mm x 711mm)*

WEIGHT pounds (kg)

- 300 - 450 lb (136 - 204 kg)

* Base Model

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- B-Timer (P31)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	Purification System
	SCFM	L/MIN		HP	kW		
5000 PSIG (345 BAR)							
DMTII 08-E1/E3	8.4	238	3	7.5	5.6	7	P31
DMTII 08-GK	8.4	238	3	14	10.4	7	P31
DMTII 08-DY	8.4	238	3	8.3	6.2	7	P31
6000 PSIG (414 BAR)							
DMTII10-E1/E3	9.7	275	4	7.5	5.6	8.1	P41
DMTII10-GK	9.7	275	4	14	10.4	8.1	P41
DMTII 10-DY	9.7	275	4	8.3	6.2	8.1	P41
DMTII 13-E1/E3	13	368	4	10	7.5	10.8	P41
DMTII 13 -GK	13	368	4	14	10.4	10.8	P41

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
E1= Single phase electric, 230 VAC/60 Hz. E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. GK=Gasoline engine drive, KOHLER DY=Diesel engine drive, YANMAR.
Dimensions and weight are approximate and are subject to change.

CFS5.5®

CONTAINMENT FILL STATIONS FOR AIR AND OXYGEN

Choose from a complete line of containment fill stations suitable for SCBA or SCUBA cylinders. Whether you need a 3, 2 or single-position fill station, be assured each model was proof tested by an independent lab to safely contain fragments of a ruptured 5500 PSIG 110 cu. ft. SCBA cylinder at maximum operating pressure in accordance with the 2016 Edition of NFPA 1901 and or 1989. Ask about our custom options to tailor a model to your specific requirements.

- **FILL POSITIONS:**
  - One, two, or three
  - Mobile or Stationary
- **CUSTOM DESIGNED SYSTEM:**
  - Dual function cascade controls (2 or 3 position)
  - Remote fill outlets



CFS5.5-3S



CFS5.5®-3S
Shown with Cascade controls and regulated remote fill

STANDARD SCOPE OF SUPPLY

- Complete with cylinder scuff guard, SCBA fill connection, fill hose and bleed valve
- Fill control panel with adjustable regulator, relief valve, manual control valve and pressure gauge for each fill position ("S" version only)
- CFS5.5® "M" versions designed for use with remote air distribution panel
- Mounting base is standard on "S" version and optional on "M" version
- Convenient door handle actuation
- Bottom venting
- Reduced footprint



CFS5.5®-1S



CFS5.5-®2S



CFS5.5®-2S/ CSCD/RF/Reg



OXY-2S*

SYSTEM FOOTPRINT

CFS5.5®-1S & OXY-1S:

DIMENSIONS L X W X H inches (mm)
- 18" x 21" x 55" (457mm x 533mm x 1397mm)

WEIGHT pounds (kg)
- 433 lb (196 kg)

CFS5.5®-1M & OXY-1M:

DIMENSIONS L X W X H inches (mm)
- 18" x 21" x 39" (457mm x 533mm x 990mm)

WEIGHT pounds (kg)
- 360 lb (163 kg)

CFS5.5®-2S & OXY-2S:

DIMENSIONS L X W X H inches (mm)
- 30" x 21" x 57" (762mm x 533mm x 1448mm)

WEIGHT pounds (kg)
- 670 lb (304 kg)

CFS5.5®-2M & OXY-2M:

DIMENSIONS L X W X H inches (mm)
- 30" x 21" x 39" (762mm x 533mm x 990mm)

WEIGHT pounds (kg)
- 550 lb (249 kg)

CFS5.5®-3S:

DIMENSIONS L X W X H inches (mm)
- 41" x 21" x 57" (1041mm x 533mm x 1448mm)

WEIGHT pounds (kg)
- 905 lb (411 kg)

CFS5.5®-3M:

DIMENSIONS L X W X H inches (mm)
- 41" x 21" x 39" (1041mm x 533mm x 990mm)

WEIGHT pounds (kg)
- 740 lb (336 kg)

*All components in Oxygen stream are Oxygen cleaned in compliance with A.S.T.M. Standard G-93.
Dimensions and weight are approximate and are subject to change.
Images shown with additional accessories.

AIR STORAGE

UN AND ASME STORAGE SYSTEMS

BAUER high pressure air storage systems meet the code requirements of both the United Nations Model Regulations and the American Society of Mechanical Engineers. Storage cylinders and storage systems are offered for 5000, 6000 and 7000 PSIG applications. Optional mounting racks are available.

› PRESSURE:
5000 PSIG (345 BAR)
6000 PSIG (414 BAR)
7000 PSIG (476 BAR)

› CONFIGURATION:
Vertical
Horizontal

› STORAGE:
Bulk
Bank

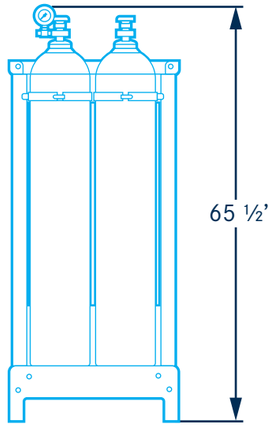


› UN STORAGE

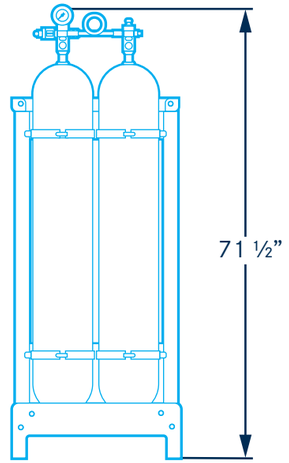


› ASME STORAGE

REFERENCE ASY-0759 FOR VERTICAL CONFIGURATIONS
AND ASY-0758 FOR HORIZONTAL CONFIGURATIONS

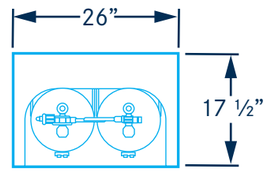


› UN STORAGE

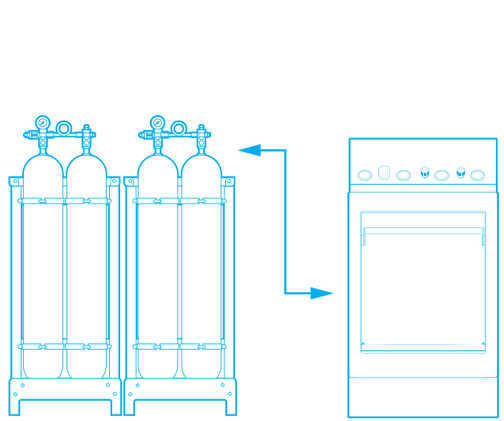


› ASME STORAGE

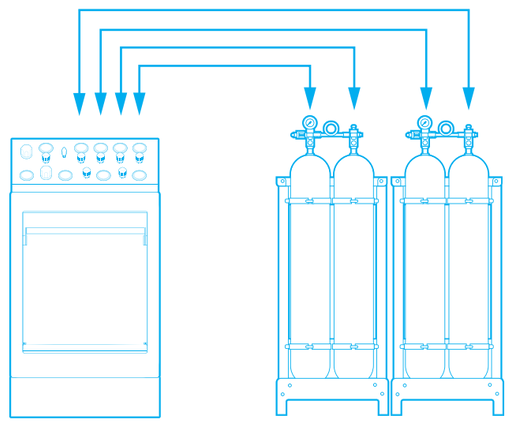
Model	Weight 2-Cylinder Rack	
	lbs	kg
UN 5000	475	215
UN 6000	525	238
ASME	935	424



TYPICAL SYSTEMS SHOWN BELOW



› BULK STORAGE SYSTEM
ASME 4/BANK



› FOUR BANK CASCADE STORAGE SYSTEM
ASME 4/BANK/1-1-1-1

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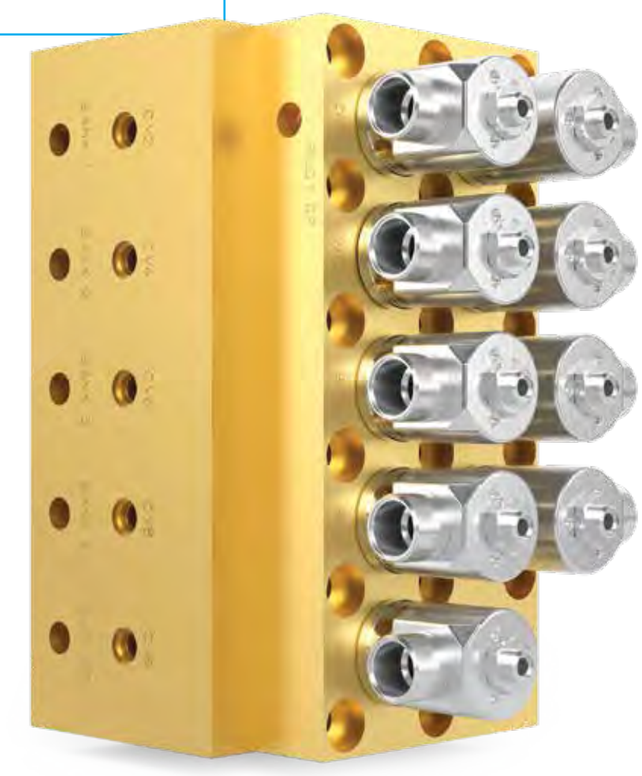
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AUTO CASCADE

SAFE AND AUTOMATIC CASCADE SCBA FILLING

The world leader in high pressure breathing air is proud to offer the premier method of automatically cascading your air storage system. The system utilizes our patent pending manifold block with integral valve bodies. Couple this with a commercially available PLC controller and you have the simplest cascade system available in the marketplace today.

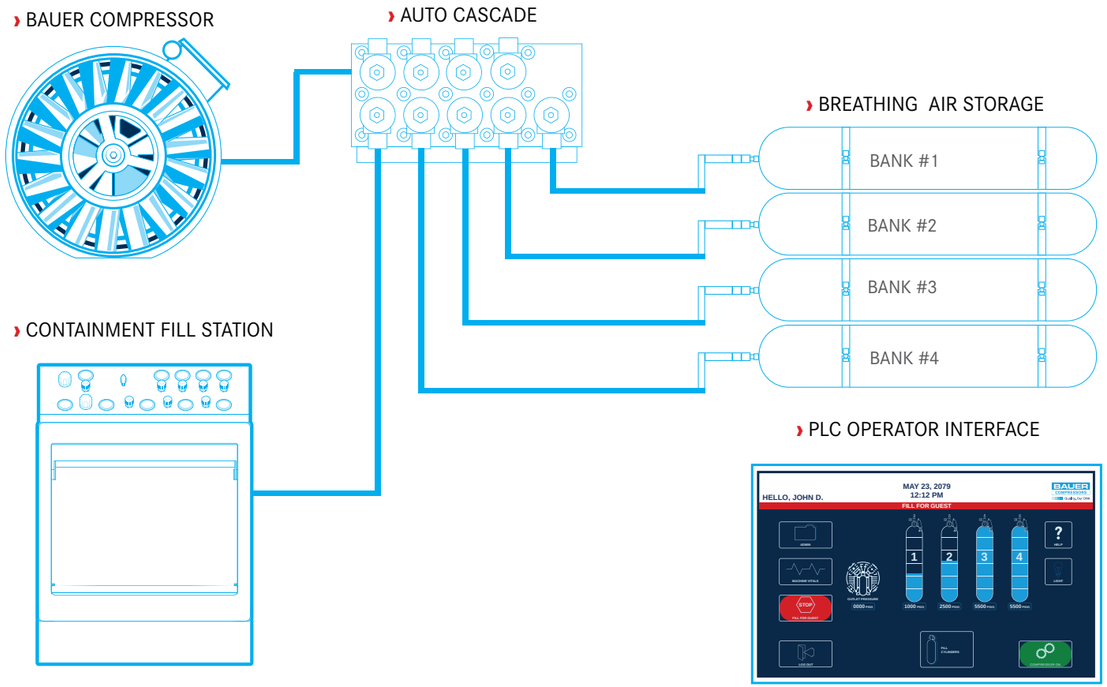
- **FOUR TO ONE SAFETY FACTORS:** All components are manufactured for 7000 PSIG service
- **12 OR 115 VOLT OPERATED:** Simply specify at the time of order
- **MANIFOLD INTEGRATION:** On any manufacturers cascade system



STANDARD SCOPE OF SUPPLY

- Corrosion resistant high strength aluminum alloy manifold block
- Programmable Logic Controller for simplistic operation and heightened accuracy
- No adjustable shuttle valves
- LED indication as to which cascade cylinder is being utilized
- The system can be utilized on either stationary or mobile cascade systems
- A preset pressure bias of 0 PSIG can be adjusted to allow for quicker switch over time from one bank to another
- Pressure sensing by transducers rather than sequential valves, provides greater accuracy without leaks or pressure drift
- A bypass circuit is incorporated into the system allowing the storage system to be bypassed. This enhancement allows for more effective hose reel operation or possibly filling a mobile cascade system from a stationary system
- Can be installed onto any existing fill station or wall mounting

SAFETY AND ADDED VALUE



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BAUER CRC™
CHARGE RATE CONTROL



The BAUER Charge Rate Controller (CRC™) has been designed to automatically fill SCBA and SCUBA cylinders to their maximum allowable pressure as well as allow the operator performing the fill to control the charge rate avoiding hot fills and maximize stored air in the cylinders.

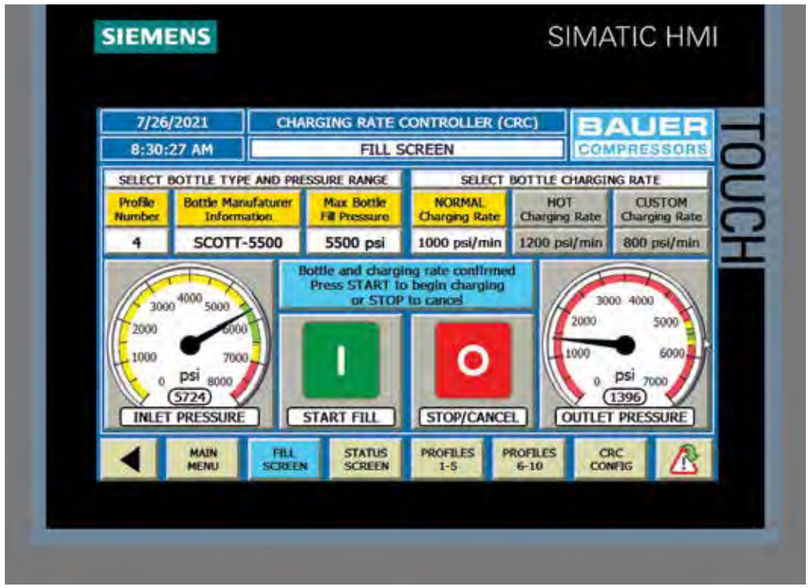
BENEFITS:

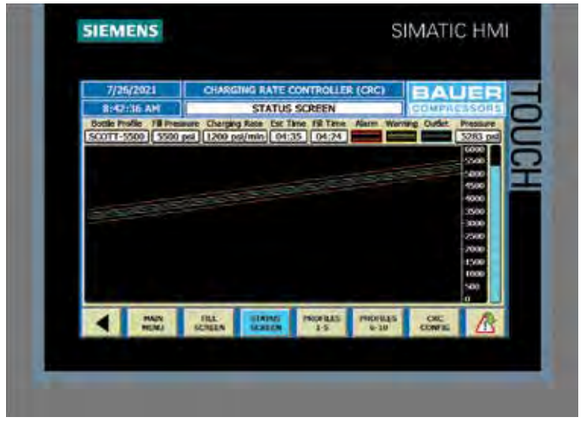
- **Reduce complexity** - No more fidgeting with dials; the BAUER CRC™ automatically charges SCBA and SCUBA cylinders to the right pressure with the push of a button.
- **Avoid "hot fills", maximize stored air** - Filling SCBA or SCUBA cylinders too fast will decrease the stored air in the cylinder when the cylinder cools down after charging. The BAUER CRC™ avoids this by controlling the rate of charge.
- **Allows for three different charge rate settings with the push of a button**
- **Can be adapted to existing BAUER compressor systems**

OPERATION:

The BAUER CRC™ makes automatic filling of an SCBA or SCUBA cylinder easy with these three steps:

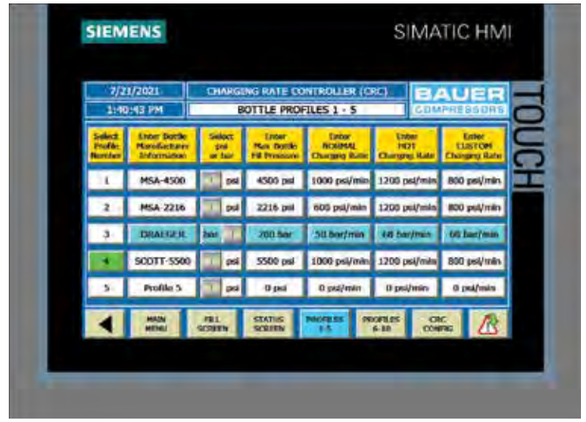
- **Step 1:** From the main menu select the SCBA or SCUBA cylinder you wish to fill
- **Step 2:** Select the desired charge rate from one of three options: Normal, Hot Fill or Custom
- **Step 3:** Press "Start Fill"





STATUS SCREEN

Indicates Fill Rate & Cylinder Pressure



CUSTOMIZABLE CYLINDER PROFILE SCREEN

FEATURES

- PLC controlled with color HMI touchscreen
- Select from up to 10 customizable SCBA or SCUBA cylinder configurations, each with their own name designation and max fill pressure
- Select from up to three customizable charge rates
- Fill rate is accurately controlled with BAUER's proprietary technology
- Compatible with cascade storage and containment fill stations
- Field retrofit to existing BAUER compressor systems
- Easy installation: wall mountable; requires only two high pressure hose connections and plug-in 110V power

SYSTEM SPECIFICATIONS

DIMENSIONS L x W x H
- 7.5" x 21" x 26" (190.5mm x 533.4mm x 660.4mm)

WEIGHT
- 40 lbs (18 kg)

MAXIMUM INLET PRESSURE
- 6000 PSIG (414 BAR)

MAXIMUM FILL PRESSURE
- 5500 PSIG (379 BAR)

HIGH-PRESSURE CONTROL PRESSURE PORT:
- 1/4" NPT female

HIGH-PRESSURE FILLING INLET PORT:
- 1/4" NPT female

HIGH-PRESSURE FILLING OUTLET PORT:
- 1/4" NPT female

PURIFICATION



HIGH-PRESSURE BREATHING AIR PURIFICATION FOR BAUER SYSTEMS

BAUER Air Purification Systems purify high-pressure air to a quality that meets or exceeds the requirements of CGA Pamphlet G-7, Compressed Air for Human Respiration, ANSI/CGA G-7.1, Commodity Specification for Air, Grade E, and all other recognized standards for breathing air. Our Purification Systems can be retrofitted to most high-pressure compressors.

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› WORLDWIDE LEADER:
- Compressors
- Purification and filtration

› ANODIZED ALUMINUM FILTER HOUSING:
- Filter cartridge end caps are machine crimped
- Eliminating glues/friction welding

› ANODIZED ALUMINUM FILTER CHAMBERS:
Each chamber and plug assembly are serialized to assure system traceability



› SECURUS

Images shown may have optional features.



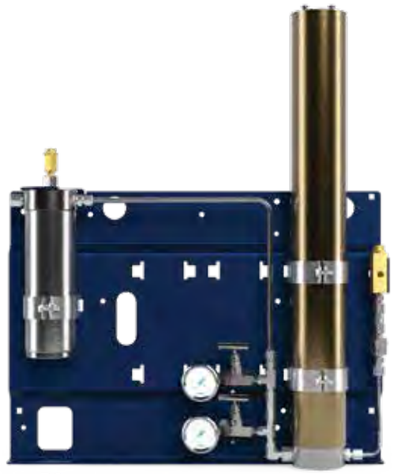
› B-TIMER



› P0 TRIPLEX



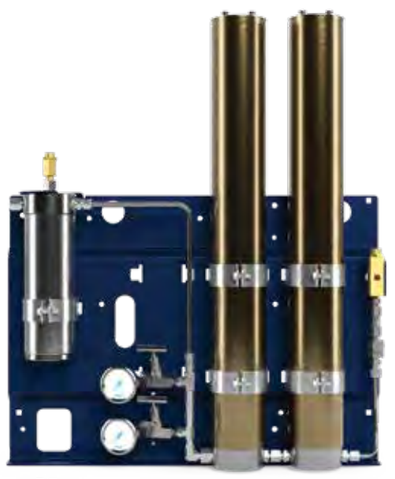
› P31 SUPER TRIPLEX



› P2



› P42



› P5



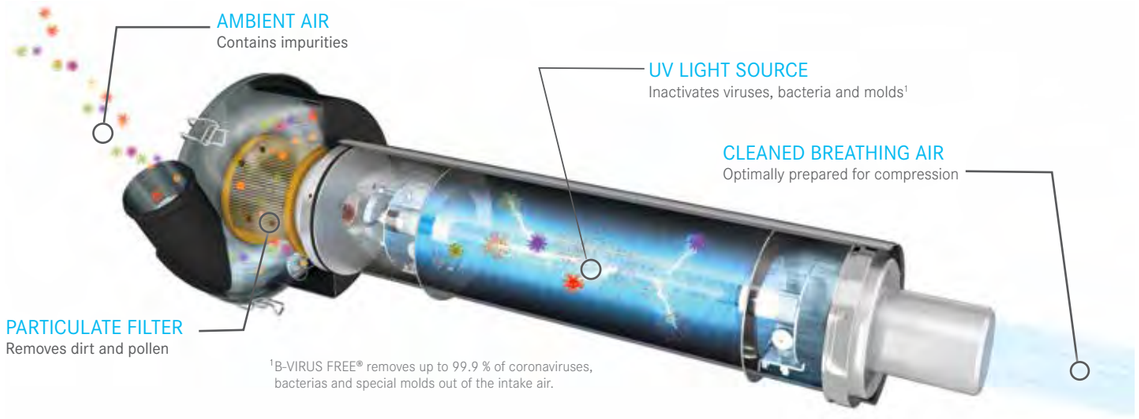
› P10

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BAUER *B-VIRUS FREE®

***THE B-VIRUS FREE™ FILTER ELIMINATES UP TO 99.9% OF CORONAVIRUSES, BACTERIA AND CERTAIN MOLDS FROM INTAKE AIR.**

COMPRESSOR INTAKE AIR FILTRATION SYSTEM FOR SAFETY WITHOUT COMPROMISE



PROTECTING YOUR HEALTH IS OUR NUMBER ONE PRIORITY

Science has shown that viruses and bacteria can spread rapidly over great distances through aerosol dispersion. Mixed in the ambient air, they can pass through any commercially available standard air purification system which is part of the typical breathing air compressor system. Even the high temperatures and pressures of a typical high- pressure breathing air compressor have little effect on viruses and bacteria because of their short- duration exposure to the process.

The new BAUER B-VIRUS FREE® breathing air filtration system (patent-pending) inactivates up to 99.9% of viruses including coronaviruses, bacteria, and molds at the air intake section of your BAUER breathing-air-compressor. The system is designed to protect firefighters, divers, hazardous-location-workers, military personnel, or anyone who breathes compressed breathing air through SCBA or SCUBA cylinders. EPA Est. No. 100175-VA-1

INTAKE PARTICULATE FILTER

Underpressure in the compressor draws in air through the intake filter opening. Normal dust particles and even pollen are removed from the air by the intake filter.

CONTROL AND DISPLAY

The control unit of the B-VIRUS FREE® protective filter system monitors functions and controls the UV light source. Operational status information is provided by visual (LED) and acoustic signals.

UV PURIFICATION

The specially deigned UV light source emits high-energy UVC radiation that destroys the molecular bonds in the DNA of bacteria and molds and in the RNA of viruses. This prevents the pathogens from reproducing.

CONNECTION TO COMPRESSOR

The B-VIRUS FREE® protective filter system is connected to a specially sealed intake hose, which eliminates any potential new contamination from leaks between the protective filter and the compressor block.

OZONE FREE

The B-VIRUS FREE® filter system produces no harmful ozone.

EFFECTIVE INACTIVATION OF CORONA VIRUSES, BACTERIA AND MOLDS

Free of chemicals and ozone, the B-VIRUS FREE® system uses a specially designed UVC light source to destroy the pathogens before the intake air section of the compressor. The highly effective wavelength in the B-VIRUS FREE® system is absorbed by the pathogens' DNA, where the photons destroy the bonds between the DNA strands of the viruses, bacteria, and mold spores and effectively prevent them from reproducing.

LOW MAINTENANCE, LOW OPERATING COSTS

The B-VIRUS FREE® compressor intake air filter system has long maintenance intervals to keep operating costs down. The filter does not require replaceable filter cartridges. The UVC light source has an extremely long service life of approx. 2,000 hours and is simple to replace.

EASY INTEGRATION INTO YOUR BAUER COMPRESSOR SYSTEM

The B-VIRUS FREE® compressor air intake filter system can be ordered for any new model BAUER VERTECON®, VERTICUS®, BAUER LEGACY®, and UNICUS® 4S & 4i breathing air compressor systems. B-VIRUS FREE® will also be available as a retrofit kit for older BAUER breathing air compressor systems.



› **VERTECON®**
The B-VIRUS FREE® system shown integrated into the BAUER VERTECON® Breathing Air Compressor System

TECHNICAL DATA

B-VIRUS FREE®	
	Values
APPLICATION	
Pressure Range	Atmospheric Intake Air
Compressor Charge Rate Range	3.5-30 scfm (100 - 850 l/min)
FUNCTIONS	
Required Warm-Up Time	60 secs
Visual Indicators	Warm-up/Normal/Fault
Audible Signal	in case of fault
TECHNICAL DATA	
Permissible operating temperature range	+41°F(+5°C) to +105°F (+40°C)
Operating voltage	110/220 volts, ac, single phase (60/50Hz)
UV lamp service life	2,000 hrs or every 2 years
Weight filter unit	approx. 17.5 lbs (7kg)
Weight control box	approx. 12.5 lbs (5kg)
Dimensions W x D x H	36x10x18 in (905x250x450 mm)

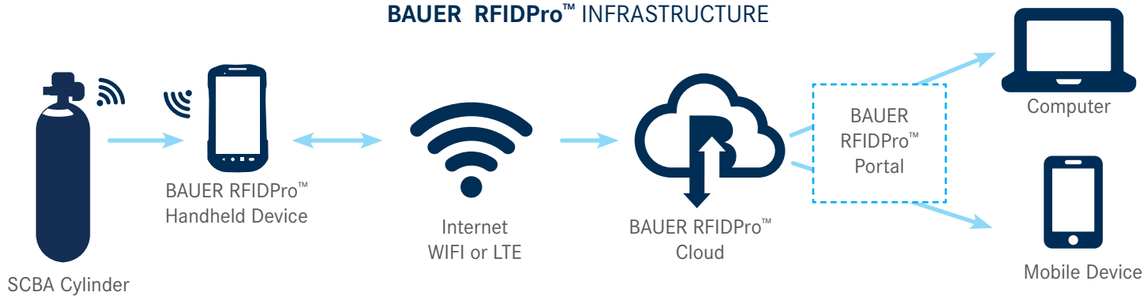
The B-VIRUS FREE® filter eliminates up to 99.9% of coronaviruses, bacteria and certain molds from intake air.

BAUER RFIDPro™

The BAUER RFIDPro™ SCBA Cylinder Management System is a subscription service which provides Fire Departments with a system designed to improve the safety of the SCBA cylinder filling process as well as provide compliance with all of the governmental reporting requirements such as NFPA-1989 and OSHA-1910.134 associated with the cylinder management process.

The system also serves as a powerful inventory management tool, helping fire departments identify the status and track the location of their entire SCBA cylinder inventory in real-time.

BAUER RFIDPro™ INFRASTRUCTURE



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STANDARD FUNCTIONALITY

BAUER RFIDPro™ HANDHELD DEVICE

- Allows new SCBA cylinder registration through the BAUER RFIDPro™ handheld device or directly through the BAUER RFIDPro™ customer portal
- Guides the cylinder fill operator through the entire SCBA cylinder fill process to assure that all required steps are followed in sequence and performed in a safe manner
- Alerts the cylinder fill operator if an SCBA cylinder is expired, past due on hydro testing or inactive due to failed inspection.
- Sends push and e-mail notifications to responsible fire department personnel in advance of cylinder expiration or hydro past due date as well as when a cylinder fails inspections
- Automatically logs every aspect of the SCBA cylinder fill process and documents all required NFPA-1989 criteria including time and date stamp, operator ID, cylinder inspection process and recorded fill pressure
- Allows for “Guest Fill” logging of cylinders which are the property of another fire department
- Handheld device can read both bar code and RFID tags. BAUER provides an RFID tag retrofit kit for cylinders which do not have embedded RFID tags. There is no limit to the number of SCBA cylinders or decentralized locations
- Standard WIFI or optional LTE connectivity provides real-time communications with the BAUER RFIDPro™ Cloud
- Offline functionality allows recording of data when WIFI or LTE signal is not available

BAUER RFIDPro™ CLOUD

- Provides all required documentation and reports required by NFPA-1989 and OSHA-1910.134
- Easy-to-use customer portal provides full administrative functionality including complete SCBA inventory management and reporting
- Secure cloud-based data storage unique to each customer assures data integrity and compliance with data retention requirements. SSL data communication encryption between the RFIDPro™ server and client along with SHA-256 password encryption with optional two-factor password authentication provide the latest in state-of-the art network security



1 The BAUER RFIDPro™ handheld device performs all of the required fuctions in the field pertaining to the fill process

2 SCBA cylinder managment is made easy through the user-friendly BAUER RFIDPro™ customer portal

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SYSTEM BENEFITS

- Assures fire department compliance with NFPA-1989 and OSHA-1910.134 associated with the SCBA cylinder fill documentation requirements
- Facilitates 100% data accuracy by automatically recording and uploading all SCBA fill data to the cloud thus eliminating errors through manual data entry
- Allows fire department administrators keep track and manage every aspect of their valuable SCBA cylinders in real-time including cylinder expirations, hydrotesting and repairs
- Increases fire department personnel safety and efficiency by guiding them through the proper fill process and eliminating the workload associated with manually logging SCBA fills and inspections
- Greatly reduces liability for fire departments associated with no or incomplete records, erroneous data or unsafe SCBA filling



BAUER CONNECT® REMOTE TELEMETRY AND CONTROL VIA MOBILE APP

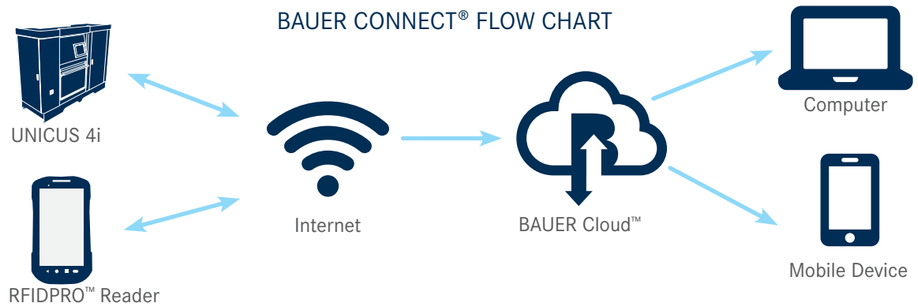
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For over 75 years, BAUER has been the leader in breathing air products for firefighters. So we understand that every wasted minute leads to injury, smoke exposure, or worse. That's why we developed BAUER CONNECT® IoT Solutions for Firefighting – our all-in-one, mobile telemetry solution for optimal ease-of-use and efficiency. Now you can view your SCBA fill data logs, get notifications about your compressor, and remotely control and monitor your BAUER compressor. The best part is that BAUER CONNECT® can be tailored to fit your station's needs.

BAUER CONNECT®– Connection that matters.

Security Features:
- Multiple logical & physical security layers
- Privilege and separation rights
- AI/ML threat assessment & analysis
- Transport layer encryption and encryption at rest
- Extensive logging and monitoring of network, system and application events

BAUER CONNECT® FLOW CHART



Available on App Store Google play To sign up and register go to Signup.Bauer-Connect.com

BAUER CONNECT® FUNCTIONS OVERVIEW

BAUER REPORTS

BAUER Reports is a function that generates custom reports tailored to the specific needs of the customer.

SCBA Management Report
- Generate a report per NFPA 1989 data logging requirements
- Show when your cylinders were last filled and by who etc.
- Fill Status Warning: Lists the SCBA the cylinder in inventory that have not been filled within the year
- Fill activity: Lists the SCBA cylinders serial number, Person filling, RFID serial, cylinder pressure and dates of fill
- Personnel: List or edit admin, users with privilege to log in to BAUER CONNECT®

Compressor Reports
- Temperature Trendline Report: Reports ambient temperature as well as temperature of every stage in the compressor

BAUER REMOTE HMI

- Live connect and remotely control any BAUER compressor(s) in your station
- Secure log-ins - Only approved team members can access and control your compressor system
- Saves time and money with instant control no matter your location

MOBILE DASHBOARDS

- Quick reference of all of your BAUER compressors at your fingertips
- Does not require password validation every time app is used
- Total visual without the Remote HMI control capability (view-only option)
- Dashboards can be customized to specific customer needs

NOTIFICATIONS

- Fault on machine
- Out of Date or Expired SCBA or SCUBA Cylinders
- Text, email or push notification alarm(s)
- Allows for instant, proactive steps to be taken if needed

BAUER PREDICTIVE ANALYTICS

The BAUER Predictive Analytics capability provides a new proactive dimension to perpetually maintaining customers' compressor systems at peak conditions with minimum downtime. BAUER's Predictive Analytics algorithm uses artificial intelligence to analyze the collected breathing air system information on the BAUER Cloud to predict upcoming maintenance requirements and preventive actions to avoid unplanned shutdowns.

A



Key Features: Compressor Features BAUER Cloud™ RFID Features

QUICK REFERENCE GUIDE

Model	Block	ACD	Gauges	Purification	Visual CO/ Moisture IND	Fill Assembly	Electrical Start	Hourmeter	Working Pressure
DIVE MATE® BASE									
DMTII 08-E1/E3	IK120II	–	–	P31	S	O	–	S	5000 PSIG
DMTII 08-GK	IK120II	–	–	P31	S	O	–	S	5000 PSIG
DMTII 08-DY	IK120II	–	–	P31	S	O	–	S (vibration type)	5000 PSIG
DMTII 10-E1/E3	IK12.14II	–	–	P41	S	O	–	S	6000 PSIG
DMTII10-GK	IK12.14II	–	–	P41	S	O	–	S	6000 PSIG
DMTII 10-DY	IK12.14II	–	–	P41	S	O	–	S (vibration type)	6000 PSIG
DMTII 13-E1/E3	IK12.14II	–	–	P41	S	O	–	S	6000 PSIG
DMTII 13GK	IK12.14II	–	–	P41	S	O	–	S	6000 PSIG
DIVE MATE ELITE									
DMT08-E1/E3	IK120II	S	S	P31	S	O	–	S	5000 PSIG
DMT08-GK	IK120II	S	S	P31	S	O	S	S	5000 PSIG
DMT08-DY	IK120II	S	S	P31	S	O	–	S (vibration type)	5000 PSIG
DMT10 -E1/E3	IK12.14II	S	S	P41	S	O	–	S	6000 PSIG
DMT10-GK	IK12.14II	S	S	P41	S	O	S	S	6000 PSIG
DMTII 10-DY	IK12.14II	S	S	P41	S	O	–	S (vibration type)	6000 PSIG
DMTII 13-E1/E3	IK12.14II	S	S	P41	S	O	–	S	6000 PSIG
DMTII 13-GK	IK12.14II	S	S	P41	S	O	S	S	6000 PSIG

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Model	Block	ACD	Gauges	Purification	Securus	CO Mon	H_2S Mon	Fill Assembly	Electric Start	Working Pressure
OPEN DESIGNS										
K42-E3/42V-E3	IK22.0	S	S	P10	O	O	O	–	–	5000 PSIG
K60-E3	IK23.0	S	S	P12S	S	O	O	–	–	5000 PSIG
K80-E3	IK25.0	S	S	P14S	S	O	O	–	–	5000 PSIG
K145-E3	IK28.0	S	S	P14S	S	O	O	–	–	5000 PSIG
H35-E3/35V-E3	IK22.42	S	S	P10S	S	O	O	–	–	6000 PSIG
H80-E3	IK25.9	S	S	2x P10S	S	O	O	–	–	6000 PSIG
H96-E3	IK25.18	S	S	2x P10S	S	O	O	–	–	6000 PSIG
ENGINE DRIVEN										
H13-D	IK12.14II	S	S	P2S	S	O	O	–	S	6000 PSIG
H18-D	IK15.11II	S	S	P5S	S	O	O	–	S	6000 PSIG
K20-D	IK150II	S	S	P5S	S	O	O	–	S	5000 PSIG
H25-D	IK18.1II	S	S	P5S	S	O	O	–	S	6000 PSIG
K26-D	IK180II	S	S	P5S	S	O	O	–	S	5000 PSIG
H35-D	IK22.42	S	S	P10S	S	O	O	–	S	6000 PSIG
K42-D	IK22.0	S	S	P10S	S	O	O	–	S	5000 PSIG
K60-D	IK23.0	S	S	P12S	S	O	O	–	S	5000 PSIG

Model	Block	ACD	Gauges	Purification	Securus	CO Mon	H_2S Mon	Fill Assembly	Electric Start	Working Pressure
VERTECON®										
VEC05-E1/E3	IK100-420	S	S	P2	O	O	O	O	–	6000 PSIG
VEC08-E1/E3	IK120II	S	S	P31	w/P2	O	O	O	–	5000 PSIG
VEC10-E1/E3	IK12.14II	S	S	P2	O	O	O	O	–	6000 PSIG
VEC13-E1/E3	IK12.14II	S	S	P2	O	O	O	O	–	6000 PSIG
VEC18-E1/E3	IK15.11II	S	S	P5	O	O	O	O	–	6000 PSIG
VEC20-E1/E3	IK150II	S	S	P5	O	O	O	O	–	5000 PSIG
VEC25-E1/E3	IK18.1II	S	S	P5	O	O	O	O	–	6000 PSIG
VEC26-E1/E3	IK180II	S	S	P5	O	O	O	O	–	5000 PSIG
VERTICUS®										
VAC5-E1/E3	IK100-420	S	S	P2S	S	O	O	–	–	6000 PSIG
VAC8-E1/E3	IK120II-420	S	S	P2S	S	O	O	–	–	6000 PSIG
VAC10-E1/E3	IK12.14	S	S	P2S	S	O	O	–	–	6000 PSIG
VAC13-E1/E3	IK12.14	S	S	P2S	S	O	O	–	–	6000 PSIG
VAC18-E3	IK15.11II	S	S	P5S	S	O	O	–	–	6000 PSIG
VAC20-E3	IK180II	S	S	P5S	S	O	O	–	–	5000 PSIG
VAC25-E3	IK18.1II	S	S	P5S	S	O	O	–	–	6000 PSIG
VAC26-E3	IK12.180	S	S	P5S	S	O	O	–	–	5000 PSIG

Model	Block	Gauges	Purification	Storage Type	Storage Quantity	Add'l Storage	CO Mon	H_2S Mon	Remote Fill	Hose Reel	Working Pressure
VERTICUS® PLUS AND UNICUS® 4S											
VT-P 05-E1/E3	IK100-420	S	P2S	UN	2	–	O	O	O	O	6000 PSIG
VT-P 08-E1/E3	IK120II-420	S	P2S	UN	2	–	O	O	O	O	6000 PSIG
VT-P 10-E1/E3	IK12.14II	S	P2S	UN	2	–	O	O	O	O	6000 PSIG
VT-P13-E1/E3	IK12.14II	S	P2S	UN	2	–	O	O	O	O	6000 PSIG
UN 4/10-E1/E3	IK12.14II	S	P2S	ASME	2	O	O	O	O	O	6000 PSIG
UN 4/13-E1/E3	IK12.14II	S	P2S	ASME	2	O	O	O	O	O	6000 PSIG
UN 4/18-E1/E3	IK15.11II	S	P5S	ASME	2	O	O	O	O	O	6000 PSIG
UN 4/20-E1/E3	IK180II	S	P5S	ASME	2	O	O	O	O	O	5000 PSIG
UN 4/25-E1/E3	IK18.1II	S	P5S	ASME	2	O	O	O	O	O	6000 PSIG
UN 4/26-E1/E3	IK1180II	S	P5S	ASME	2	O	O	O	O	O	5000 PSIG

S standard **O** optional **–** option not available

A

PARTS

OEM PARTS WARRANTY

RAPID DELIVERY

QUALITY AND RELIABILITY

Our factory-original replacement parts ensures when maintenance or repair is performed, you are restoring the unit to its original specifications and performance.

1. Purification
2. Gaskets and Seals
3. Lubricants
4. Fill Hose and Assemblies
5. Valves
6. Air Intake Filters
7. **All 10,000+ Parts**



PLUS, OVER 10,000 OEM PARTS

COMPATIBILITY

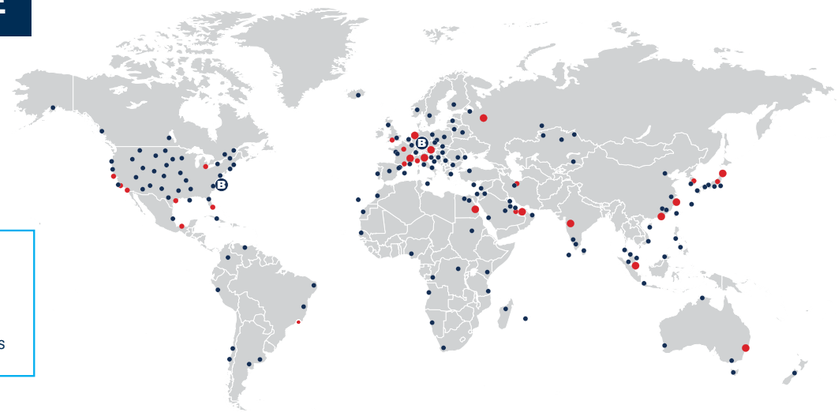
We configure our designs with interchangeability and our end user in mind. You can count on parts being available for all BAUER models.

PartsSales@BauerComp.com or 1-(844)-500-5822

GLOBAL SERVICE

GLOBAL SERVICE REACH

FACTORY TRAINED TECHS



SERVICE AND SUPPORT

Our compressors are designed with you in mind. Easto to use manuals guide you through clear, mechanically accessible repairs. Our worldwide distribution network was developed to assist in after-sales support, along with product and maintenance parts assistance.

FROM THE SOURCE

BAUER COMPRESSORS INC., is certified with **ISO 9001:2015** quality processes providing you with confidence that cannot be duplicated by sub-standard after-market parts and service.

Quality Management ISO 9001 www.dekra-world.com DEKRA certified

C S

TRAINING

ON SITE/OFF SITE TRAINING

FACTORY TRAINED TECHS

BAUER COMPRESSORS INC. offers a variety of on site & off site Training Schools. Our on site classes are held at our BAUER Training Facility and are taught by the same people that help manufacture, test and service our products. From electrical systems to hands-on break downs, we cover all areas of compressor operation.

TRAINING TOPICS

Basic mechanical theory, control system theory (electric and pneumatic) along with troubleshooting for all BAUER systems.

Class schedule and course registration at:

www.BauerCustomerTraining.com





BAUER HELPDESK

24-7 PHONE TECH SUPPORT

LIFECYCLE PERFORMANCE

MECHANICAL & ELECTRICAL

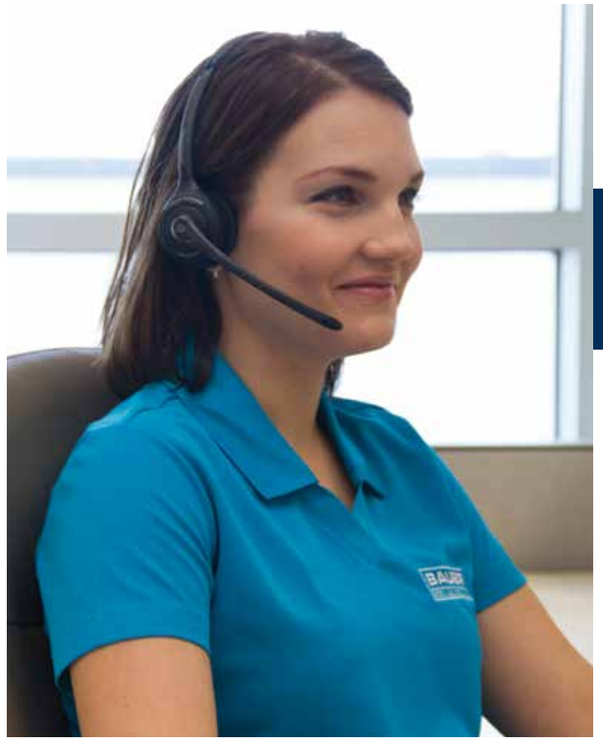
Total customer satisfaction is our top priority. BAUER provides 24-7 phone tech and troubleshooting support at our BAUER Helpdesk. Our support continues throughout our warranty period and beyond.

For BAUER Helpdesk please email:

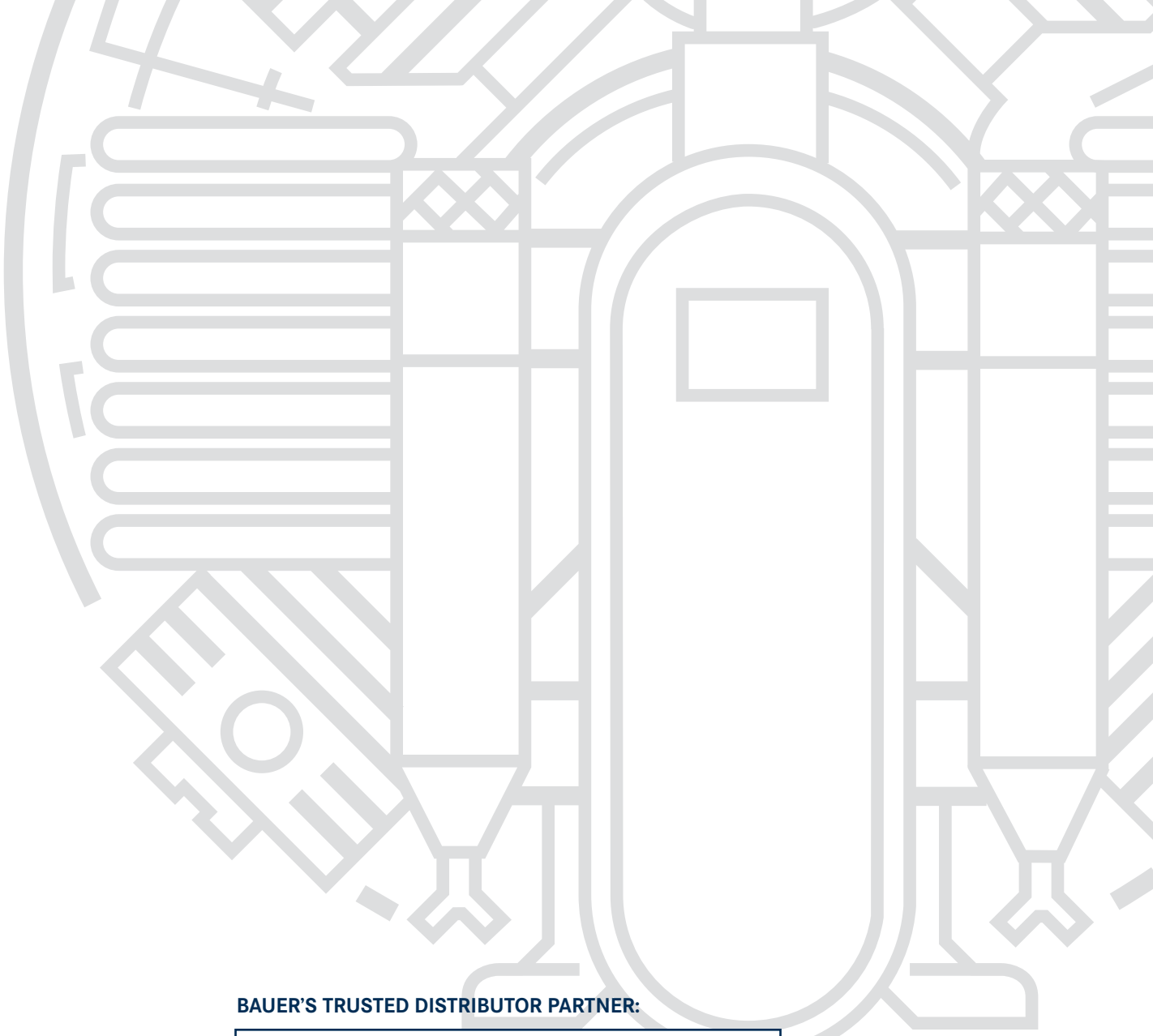
CustomerService@BauerComp.com

or call at:

+1 (844)-500-5822



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BAUER'S TRUSTED DISTRIBUTOR PARTNER:

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Quality Management ISO 9001 DEKRA certified

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E-Z SHELVING SYSTEMS, INC.

Manufacturer of Space-Saving Cantilever Shelving & Hardware



- Shelving Systems Manufactured to Any Size Practical
- Infinitely Adjustable Shelf Tiers
- Additional Tiers Can Be Added With No Tear Down
- Shelves Form a Continuous Backsplash
- 1 1/4" Clearance Between Wall and Shelf
- Heavy-Duty Construction
- "Spacemaker System" for Walk-In Coolers
- Shelving Available in Many Types and Finishes

***website:* www.e-zshelving.com**

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USDA APPROVED

NSF

OPTION AVAILABLE

Conforms to U.S. Military Specifications

Proudly made in the U.S.A.

OUR BUILT-IN BENEFITS

E-Z Shelving Systems were designed with convenience in mind. Unlike four-post shelving, E-Z's cantilever shelving decks have no post supports to get in the way, making shelf loading and unloading – E-Z!

E-Z Shelving Advantages:

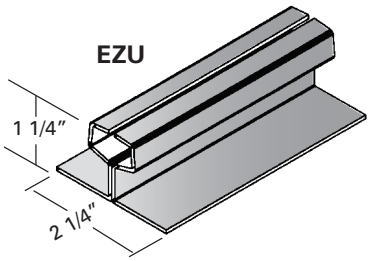
1. Open-front shelving (no posts) for 100% usable space.
2. Totally usable floor space under shelf.
3. Shelving systems manufactured to any size practical allowing for custom design at no additional cost.
4. Shelf tiers are infinitely adjustable, and new tiers can be installed without disassembly.
5. Additional tiers can be added with no tear down required.
6. Shelves form a continuous backsplash which keeps stored items nested to protect both wall and stored items.
7. Systems' design assures a 1-1/4" clearance between wall and shelf allowing for ventilation and utility chases.
8. Heavy-duty industrial grade rugged construction.
9. Special ceiling brackets allowing "Spacemaker System" to be installed in walk-in coolers.
10. Shelving available in galvanized, stainless steel, aluminum and powder coat. Shelving types include; solid, louvered, wire and NSF.

A completely flexible industrial shelving system.

UPRIGHT SPECIFICATIONS

E-Z Uprights for Wall-Mounted Storage

Shall consist of 14 gauge rolled steel channels, continuously seam-welded electro zinc plated and chromate dipped to ensure against rust and corrosion, punched to accept 1/4" lag screws, bolts, etc., for mounting to walls. Mounting holes shall begin 2" from each end.



Stock upright lengths:

EZU-1	12"	EZU-6	72"
EZU-2	24"	EZU-7	84"
EZU-3	36"	EZU-8	96"
EZU-4	48"	EZU-10	120"
EZU-5	60"	EZU-12	144"

Note: *Stock uprights can also be cut to your desired length. NSF-listed uprights, available in standard electro- zinc finish, series #304 stainless steel, or #6061-T6 extruded aluminum.*
Note: *Stainless uprights are brake formed.*

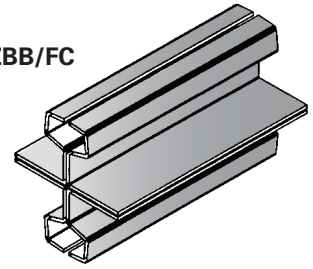
Aluminum extruded uprights (part no. EZU/A) are now available.

E-Z Uprights for Center Room Storage

Two uprights (shown below), are bolted or welded back-to-back, and used for floor-to-ceiling application. Used in conjunction with foot and ceiling bracket assemblies for secured and rigid anchoring. This provides the best method for maximizing storage space in the center of any size room.

Stock uprights available in lengths up to 12 ft. Longer uprights available upon special request.

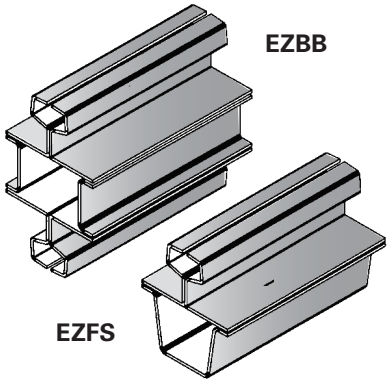
EZBB/FC



E-Z Freestanding (Single Faced) and Back-to-back (Double Faced) H.D. Uprights

Heavy-duty uprights shall consist of 14 gauge rolled steel channels, continuously seam welded, then unitized to a 14 gauge reinforcement channel, electro-zinc plated and chromate dipped. Used in conjunction with EZXB anti-sway bars.

Note: *Reinforcement channels add 3" to depth of uprights)*



Back-to-back (EZBB) (Double Faced) Unitized Upright Lengths:

EZBB-5	60"
EZBB-6	72"
EZBB-7	84"
EZBB-8	96"

Freestanding (EZFS) (Single Faced) Unitized Upright Lengths:

EZFS-5	60"
EZFS-6	72"
EZFS-7	84"
EZFS-8	96"

Other lengths available.

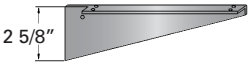
BRACKET SPECIFICATIONS

E-Z Single Shelf Brackets (EZB) with Clamps

Shall be of 12 gauge steel electro-zinc plated and chromate dipped, after fabrication, assuring complete protection of all sheared edges. Each bracket shall be furnished with E-Z clamp assembly, zinc-plated 3/8" bolt and nut. Brackets available top flanged left or right, depending on mounting position at ends of shelving runs. See chart on page 4 for recommended load limitations.

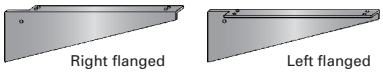


6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.



6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.

E-Z Single Shelf Brackets (EZB) with Clamps (continued)



Stock bracket sizes:

EZB-6	6″	length for	6″ shelves
EZB-8	8″	length for	8″ shelves
EZB-10	10″	length for	10″ shelves
EZB-14	14″	length for	14″ shelves
EZB-16	16″	length for	16″ shelves
EZB-18	18″	length for	18″ shelves
EZB-20	20″	length for	20″ shelves
EZB-22	22″	length for	22″ shelves
EZB-24	24″	length for	24″ shelves
EZB-26	26″	length for	26″ shelves
EZB-28	28″	length for	28″ shelves
EZB-30	30″	length for	30″ shelves

For metal shelves use the same bracket size as shelf depth to assure match up of shelf attaching holes.

For wood shelves, use bracket length 2″ shorter than the actual shelf depth. Custom bracket lengths available upon special request.

EZB denotes standard bracket style. Consult price list for NSF and stainless steel and aluminum bracket designations.

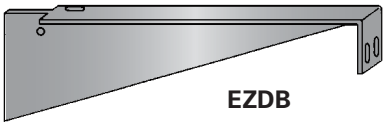
E-Z Double Brackets (EZDB) with Clamps

Shall support two adjoining shelves on a common upright. Brackets of same construction as EZB shelf bracket, with addition of a 14 gauge steel plate welded to its top horizontal flange. Double bracket shall be electro-zinc plated and chromate dipped to protect all sheared edges. Available in the following sizes specifically designed to fit the shelf size stated:

EZDB	12″	for	12″	deep shelves
EZDB	14″	for	14″	deep shelves
EZDB	16″	for	16″	deep shelves
EZDB	18″	for	18″	deep shelves
EZDB	20″	for	20″	deep shelves
EZDB	22″	for	22″	deep shelves
EZDB	24″	for	24″	deep shelves
EZDB	26″	for	26″	deep shelves
EZDB	28″	for	28″	deep shelves
EZDB	30″	for	30″	deep shelves

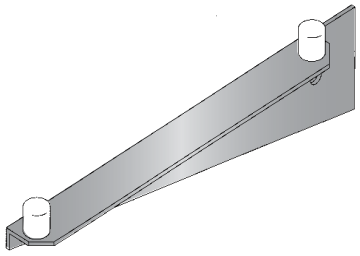
Other sizes available on special order.

Consult price list for NSF and stainless steel and aluminum double bracket designations.



EZDB

E-Z Single (EZB-K) & Double (EZDB-K) Knob Brackets



For use with wire shelving to support either a single or two adjoining wire shelves on a common upright.

Stock sizes:

12″, 14″, 15″, 18″, 21″ & 24″.

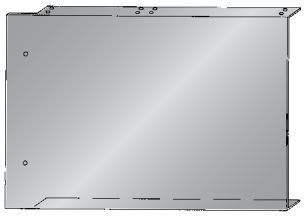
E-Z Single Foot (EZFB) & Double Foot (EZDFB) Brackets

For use with freestanding and back-to-back shelving systems. Brackets shall be furnished with 2 E-Z clamp assemblies, zinc-plated 3/8″ bolts and nuts. Brackets shall be of 12 gauge steel, electro-zinc plated and chromate dipped. Foot brackets serve as a base for the bottom shelf. Standard height is 9 1/2″.
5 1/2″ H available by special order.

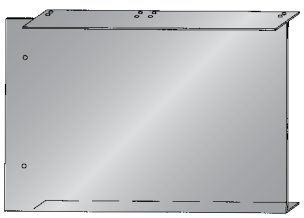
Stock Sizes:

EZFB	(or EZDFB)	129	12″ x 9 1/2″
EZFB	(or EZDFB)	149	14″ x 9 1/2″
EZFB	(or EZDFB)	169	16″ x 9 1/2″
EZFB	(or EZDFB)	189	18″ x 9 1/2″
EZFB	(or EZDFB)	209	20″ x 9 1/2″
EZFB	(or EZDFB)	229	22″ x 9 1/2″
EZFB	(or EZDFB)	249	24″ x 9 1/2″
EZFB	(or EZDFB)	269	26″ x 9 1/2″
EZFB	(or EZDFB)	289	28″ x 9 1/2″
EZFB	(or EZDFB)	309	30″ x 9 1/2″

Consult price list for NSF and stainless steel foot and double foot bracket designations.



EZFB



EZDFB

SHELF SPECIFICATIONS

Standard Finish E-Z Galvanized Steel Shelving (EZGS)

Shall be constructed of 16 gauge G-90, LFQ, ASTM A-653 galvanized sheet, with front and rear edges flanged in two directions to provide structural rigidity, and to withstand shelf failure.*See chart on page 4 for allowable loading.

Standard shelf lengths are: 36″, 48″ and 60″. Shelves of virtually any length, however, can be fabricated allowing a "glove fit" regardless of room size, and without custom upcharge.

Stock shelf depths:

EZGS 6″		EZGS 18″	EZGS 24″
EZGS 8″	EZGS 14″	EZGS 20″	EZGS 28″
EZGS 10″	EZGS 16″	EZGS 22″	EZGS 30″

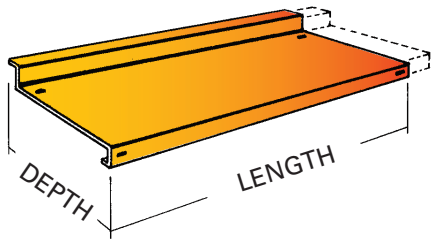
Optional shelf materials: 18 gauge, stainless steel, type #304, and .080 aluminum, series #5052.

E-Z Painted Shelving

16 gauge heavy-duty phosphate-primed steel, shall be coated with electrostatically applied plastic powder resin. Standard Colors: white, tan, black and gray. Custom colors available on request.

Technical Data:

Hardness: 2H tested in accordance with ASTM D-3363
Flexibility: Passes 1/8″ (3mm) conical mandrel tested in accordance with ASTM D-522
Impact Resistance: 160/160 direct and reverse tested in accordance with ASTM D-2794
Tensile Strength: (5,300 psi) (373 kg per square centimeter)
Elongation: 3%



Custom Tailored:

Precise shelf lengths to your specifications without custom upcharge.

INSTALLING UPRIGHTS ARE E-Z

We can provide anchoring and or blocking recommendations with your quotation per your request.

The uprights height needs to allow for top shelf to be located one foot below the top of the uprights.

Walls need sufficient backing for proper utilization of fasteners.

E-Z SHELVING SPACEMAKER™ SYSTEM

Engineered to Achieve Maximum Usage of Your Refrigerated Storage Space.

E-Z Shelving Spacemaker Systems has a unique cantilever design enhanced by the following features:

Innovative Works with both standard insulated refrigerator/freezer walls or foamed walls with thin skins. Available with accessories such as meat rail brackets, meat rails, meat hooks, etc.

Strong, Rigid, Heavy-Duty Engineered to handle your present, as well as future refrigerated commodity needs. Rolled steel or stainless steel E-Z uprights will distribute the loads in your standard foamed box without failure when installed simply as shown in the detailed sketch below. The E-Z System is guaranteed to carry the loads in your coolers and freezers per our charts.

No Wall Backing Required Experience has proven that on foamed wall sections as light as 26 gauge, ***no backing is required to mount E-Z uprights to carry capacity loads.***

No Floor Supports Required The cantilever design eliminates the need for floor supports providing an uninterrupted shelf of infinite length and yielding unobstructed floorspace, facilitating maintenance.

OUR CUSTOMER LIST:

AT&T • Alaska Airlines • Apple • Ansel Adams Museum • Army Corp of Engineers • The Australian Embassy – Washington, D.C. • BASF • Bayer Corp • Bechtel, Inc. • Boeing Military Airplanes • Brookstone • Burton Snowboards • Cal Trans • City of Los Angeles • Comcast Cable • Community Environmental Council • Conde' Nast Publications • Continental Airlines • Del Webb Development • Dow Chemical • Dupont • ExxonMobil • Federal Bureau of Prisons • General Electric • General Mills • U.S. Dept of Homeland Security • IBM • John Hopkins University Medical Center • Lever Brothers • Lockheed Martin • The Mayo Clinic • Martin Marietta • Motorola • NASA • Nabisco • National Institutes of Health • Naval Undersea Warfare Center • NYU School of Medicine • Parkland Memorial Hospital • PEPSICO • Pizza Hut • Ralph Lauren - POLO • The Smithsonian Institute • Stanford University • Trader Joe's • Tulane University • UPS • United States Department of Agriculture • United States Postal Service • University of Michigan • University of Nevada at Las Vegas • University of Pennsylvania • Medical Center – Pathology Laboratory • University of Rochester Hospital • University of Texas – Cyclotron Project • United States Embassy – Bejing, CHINA • Walt Disney Corporation • Woods Hole Oceanographic Institute • Yale University Medical School • Wired Magazine

ACCESSORIES & SPECIALTY ITEMS

- Louvered Shelves
- Turnout Gear Racks
- Wire Shelves:
  1. Zinc
  2. Chrome
  3. Epoxy
  4. Stainless Steel
- Seismic Accessories

DESIGN BASIS FOR FULL LOADS

When using 4 ft. long standard E-Z metal shelves for "continuous runs" (where two shelf sections use one common double bracket and upright), only the carrying capacity of the double bracket (EZDB) needs be considered (See Allowable Bracket Loading chart). The double bracket carries half the load of the two adjoining shelves to equal one shelf load per double bracket.

Note: The brackets at the ends of a single shelf section each carry only one half the shelf load.

Allowable Bracket Loading (per bracket)

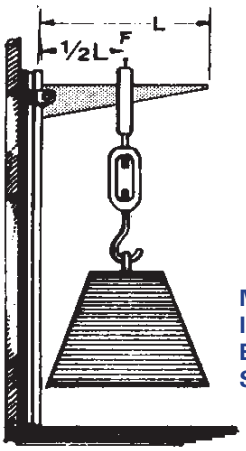
Bracket Length L	Pre-Set Angle α	Load at Failure F	Deflection at Failure D	Recommended Max. Load	Deflection at Rec. Load
6	.078″	1125 lbs.	5/32″	750 lbs.	1/16″
8	.104″	925	1/4″	625	1/8″
10	.130″	900	3/8″	590	3/16″
12	.156″	870	7/16″	560	1/4″
14	.182″	840	1/2″	540	5/16″
16	.208″	810	13/32″	530	1/4″
18	.234″	750	7/16″	465	9/32″
20	.260″	690	15/32″	395	5/16″
22	.286″	625	1/2″	390	11/32″
24	.312″	610	5/16″	360	1/8″
26	.338″	560	3/8″	345	3/16″
28	.364″	530	7/16″	335	1/4″
30	.390″	500	1/2″	310	5/16″

The following data on shelf spans is for a single shelf section and in some cases should be reduced by one half when using double brackets.

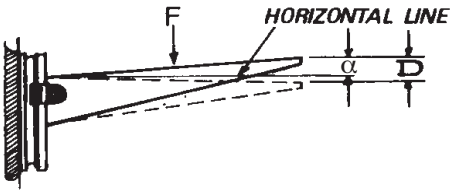
On the Allowable Bracket Loading chart, "F" (load at failure) is the load at which permanent deflection may start.

Pre-set angle of bracket (a) Position of load for testing (F) Measure of deflection at failure (D). Based upon evenly distributed weights. Not for aluminum.

E-Z Shelving Systems, Inc.
5538 Merriam Drive • Merriam, KS 66203-2548
Phone: 913.384.1331 • Fax: 913.384.3399
1-800-353-1331
www.e-zshelving.com



Method of load testing E-Z Shelving System brackets.



Allowable Shelf Loading Capacity (In Pounds Per Sq. Ft.)

SHELF SIZES (DEPTH)	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
EZGS-12	560	370	280	220	140
EZGS-16	405	270	200	160	100
EZGS-18	310	200	150	110	70
EZGS-20	235	150	117	90	60
EZGS-24	197	130	100	70	55
EZGS-28	145	96	70	60	45

Allowable Concentrated Loading in Pounds

FOR ALL SHELF SIZES	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
	800	600	450	350	300

PLANNING YOUR DESIGN OR BID

Please forward your drawing with as much of the following information available.

1. Depth x length of shelves and height of uprights.
2. Number of tiers required per section.
3. Anticipated loading and usage.
4. Shelving style, e.g., wall-mounted, freestanding, floor to ceiling and walk-in cooler with ceiling brackets.
5. Shelving finish, galvanized, stainless steel, powder coat or aluminum.
6. Shelving type, solid, louvered, NSF or wire.
7. New construction or existing walls; type of wall.
8. Destination of project with zip code.

Note: Our "Quotation Form" is available on line for you to fill out and send in. See our website: www.e-zshelving.com

Flammable Storage Cabinet - Standard, Manual Doors, Yellow, 30 Gallon



More Images & Video

Ensure safety and provide storage for your flammable liquids.

- Double wall 18-gauge steel.
- 350 lb. shelf capacity. Adjustable shelves.
- Sloped shelves safely direct spills away from containers.
- Recessed paddle handle, can be used with padlock.
- Continuous piano hinge provides smooth closure.
- Adjustable leveling feet for uneven surfaces.
- Meets NFPA, IFC and OSHA standards. FM approved.
- **Yellow** - For aerosols, gasoline and flammable liquids.
- Self-Closing Cabinet - Required in certain states and municipalities.

SPECIFY COLOR:

MADE IN THE USA - 10 YEAR WARRANTY

MODEL NO.	DESCRIPTION	OUTSIDE DIM. W x D x H	CAP. (GAL.)	NO. OF SHELVES	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	COLOR	IN STOCK SHIPS TODAY
H-1563M-Y	Standard	43 x 18 x 44"	30	1	216	$1,080	$1,055	Yellow	1 ADD

SHIPS ASSEMBLED VIA MOTOR FREIGHT

Additional Info | Parts/Accessories | Shopping Lists | Request a Catalog

CLEANING & DRYING

Clutter Reduction Systems

MADE in the USA

and reduced shipping costs

per wheel

XXX.04



Broom Center/Wash Center

- Configurable to your custom storage needs
- Easy access to all accessories in one dry place
- Durable steel construction and resilient powder coat finish
- Helps organize and extend the life of your brooms and brushes

Available in 4', 5' and 6' widths by 25¼" tall and includes the hangers listed in the box below.

Included Hangers

Broom Center	**4′ Unit:** 3 Large Tool Hangers 1 Four-Prong Rack	**5′ Unit:** 4 Large Tool Hangers 1 Four-Prong Racks	**6′ Unit:** 5 Large Tool Hangers 1 Four-Prong Racks
Wash Center	**4′ Unit:** 3 Large Tool Hangers 1 Four-Prong Rack	**5′ Unit:** 3 Large Tool Hangers 2 Four-Prong Racks	**6′ Unit:** 4 Large Tool Hangers 2 Four-Prong Racks

Room
103
Compressor Room

BAUER COMPRESSORS
Quality. Our DNA

VERTICUS™

3, 4 AND 5-STAGE ENCLOSED HIGH PRESSURE BREATHING AIR COMPRESSORS

The days of “Breadbox” designed compressor packages are over! Step up to the BAUER VERTICUS. The updated sound attenuated cabinet is now equipped with a unique aesthetically pleasing horizontally hinged, and gas shock supported, operations panel, assuring direct and easy access to the drive belts. Vertically hinged and lift-off side maintenance access doors incorporating fast pin technology make removal of the doors a snap – no hand tools are required. The rear panel incorporates integral handles and tabbed lift off design. The front vertically hinged access door is affixed with a hex keyed latch to eliminate the accidental opening of the door while the system is operating. Sound attenuation has been incorporated on every possible panel to provide a nice and quiet operating level of approximately 72 dB (within one-meter). One package size accommodates BAUER high pressure aircooled compressors from 5 to 20 Hp motors, 50 or 60-Hz, 5000 to 6000 psig maximum operating pressure. Our new, larger, 7” HMI enhances monitoring of system functions.

EFFECTIVE: 01/01/20

- **PRESSURE:** Up to 6000 PSIG (414 BAR)
- **CHARGING RATE:** 5 to 25 SCFM (142 to 708 L/MIN)
- **POWER:** 5 to 20 HP (3.7 to 15 kW)



› VERTICUS

OPTIONAL



VERTICUS
FIRE EDITION
OPTIONAL FIRE EDITION PAINT SCHEME
(SHOWN HERE)

STANDARD SCOPE OF SUPPLY

- BAUER breathing air purification system with B-SECURUS
- BAUER PLC based controller with 7" color HMI touchscreen display
- NEMA 4 rated electrical enclosure with **UL®** listed control panel
- Compressor low oil pressure and high temperature safety shutdowns
- Emergency stop push button and automatic start/stop control
- Zero loss automatic condensate drain system with non-corrosive condensate reservoir and integrated float sensor and automatic "Full" indication and compressor shutdown
- Interstage pressure gauges (locally mounted)
- Vertically hinged front operations panel and lift-off side maintenance access doors
- Unique hinged front operations panel
- Drive belt adjustment tool
- Leveling feet

AVAILABLE ACCESSORIES (FACTORY INSTALLED)

- CO monitoring system
- B-Kool (floor mount only)
- H_2S monitoring system with audible alarm

SYSTEM FOOTPRINT

DIMENSIONS L X W X H inches (mm)

- 55" x 35" x 70" (1397mm x 889mm x 1778mm)

WEIGHT pounds (kg)

- 1000 - 1400 lb (453.6 - 635 kg)

TECHNICAL DATA

Model	Charging Rate[1]		Number of Stages	Motor		FAD[2]	RPM	Purification System	Price
	SCFM	L/MIN		HP	kW				
5000 PSIG (345 BAR)									
VAC8-E1	8.4	238	3	7.5	5.6	7	1250	P2 B-SECURUS	$25,147.00
VAC8-E3	8.4	238	3	7.5	5.6	7	1250	P2 B-SECURUS	$25,013.00
VAC20-E3	21	595	4	15	11	17.5	1300	P5 B-SECURUS	$38,565.00
VAC26-E3	26.4	748	4	20	15	22	1350	P5 B-SECURUS	$44,164.00
6000 PSIG (414 BAR)									
VAC5H-E1	5	142	3	5	3.7	4	1050	P2 B-SECURUS	$25,208.00
VAC5H-E3	5	142	3	5	3.7	4	1050	P2 B-SECURUS	$25,147.00
VAC10H-E1	9.7	275	4	7.5	5.6	8.1	1180	P2 B-SECURUS	$33,159.00
VAC10H-E3	9.7	275	4	7.5	5.6	8.1	1180	P2 B-SECURUS	$32,691.00
VAC13H-E1	13	368	4	10	7.5	10.8	1420	P2 B-SECURUS	$34,340.00
VAC13H-E3	13	368	4	10	7.5	10.8	1420	P2 B-SECURUS	$33,605.00
VAC18H-E3	18	510	4	15	11	15	1325	P5 B-SECURUS	$40,994.00
VAC25H-E3	25.2	714	5	20	15	21	1300	P5 B-SECURUS	$46,489.00

1) Based on recharging an 80 cubic foot tank from 500 to 3000 psig.
2) Compressor capacity referenced to standard inlet conditions.
E1= Single phase electric, 230 VAC/60 Hz. E3=Three phase electric, 208/230/460 VAC/60 Hz. Other voltages available on request. Dimensions and weight are approximate and are subject to change.

OPTIONAL ACCESSORIES - VERTICUS

Item	Description	Part Number	Price
0001	Electronic carbon monoxide monitor complete with calibration kit wired for alarm and shutdown (calibration gas included)	GT/CO/III	$4,162.00
0002	Fire Edition paint scheme		$3,598.00

BAUER COMPRESSORS
Quality. Our DNA

AIR STORAGE

UN AND ASME STORAGE SYSTEMS

BAUER high pressure air storage systems meet the code requirements of both the United Nations Model Regulations and the American Society of Mechanical Engineers. Storage cylinders and storage systems are offered for 5000, 6000 and 7000 PSIG applications. Optional mounting racks are available.

EFFECTIVE: 01/01/20

› **PRESSURE:**
5000 PSIG (345 BAR)
6000 PSIG (414 BAR)
7000 PSIG (476 BAR)

› **CONFIGURATION:**
Vertical
Horizontal

› **STORAGE:**
Bulk
Bank



› UN STORAGE



› ASME STORAGE

UN AIR STORAGE SYSTEM

Model		Price
UN 5000 PSIG (345)		
CYL-0098	1 cylinder	$1,381.00
HC5000-1	1 cylinder	$1,550.00
HC5000-2	2 cylinders	$3,159.00
HC5000-3	3 cylinders	$4,767.00
HC5000-4	4 cylinders	$6,374.00
HC5000-5	5 cylinders	$7,984.00
HC5000-6	6 cylinders	$9,589.00
HC5000-7	7 cylinders	$11,198.00
HC5000-8	8 cylinders	$12,806.00
UN 6000 PSIG (414)		
CYL-0069	1 cylinder	$2,129.00
HC6000-1	1 cylinder	$2,243.00
HC6000-2	2 cylinders	$4,552.00
HC6000-3	3 cylinders	$6,858.00
HC6000-4	4 cylinders	$9,165.00
HC6000-5	5 cylinders	$11,471.00
HC6000-6	6 cylinders	$13,777.00
HC6000-7	7 cylinders	$16,084.00
HC6000-8	8 cylinders	$18,393.00
UN CYLINDER RACKS AND RACK ACCESSORIES		
HC5000-1/6000-1	Wall mount retainer	$161.00
	RCK-0037	$710.00
HC5000-2/6000-2	Wall mount retainer	$161.00
	RCK-0037	$710.00
HC5000-3/6000-3	Wall mount retainer	$209.00
	RCK-0037	$1,419.00
HC5000-4/6000-4	Wall mount retainer	$256.00
	RCK-0037	$1,419.00
HC5000-5/6000-5	Wall mount retainer	$306.00
	RCK-0037	$2,128.00
HC5000-6/6000-6	Wall mount retainer	$351.00
	RCK-0037	$2,129.00
HC5000-7/6000-7	Wall mount retainer	$401.00
	RCK-0037	$2,839.00
HC5000-8/6000-8	Wall mount retainer	$448.00
	RCK-0037	$2,839.00

UN PRESSURE RECEPTACLE (UNITED NATIONS MODEL REGULATIONS)

When ordering HC5000 and HC6000 cylinder assemblies please specify BULK or BANK by adding to the model name (i.e. HC5000-6/BULK or HC5000-6/ BANK). When ordering BANK assemblies please specify the number of vessels required in each BANK (i.e. HC6000-6/BANK/2-2-1-1). Cylinder prices do not include storage rack. UN 5000 psig cylinders, CYL-0068, are manufactured in accordance to ISO 9809-2 specification. CYL-0068 are equipped with cylinder valves that have a CGA-347 connection and pressure relief device. Approximate empty weight 158 lbs. UN 6000 psig cylinders, CYL-0069, are manufactured in accordance to ISO 9809-2 specification. CYL-0069 are equipped with manifold style cylinder valves with 1/4" NPT ports set 180 degrees apart. Approximate empty weight 188 lbs. The mandatory retest period is every ten (10) years.

The scope of supply for HC5000 cylinder assemblies includes as many CYL-0068 as specified by the model name. The scope of supply for HC6000 cylinder assemblies includes as many CYL-0069 as specified by the model name. BULK assemblies will be equipped with an inlet fitting, check valve, pressure gauge, and outlet fitting. BANK assemblies are designed to be used with a BAUER four bank cascade panel. Gauges are not included as they are on the cascade panel. The inlet and outlet are common fitting as there is no check valve. Our standard scope of supply includes 1/4" hose connectors for HC5000 and HC6000 assemblies. When interconnecting pigtails are necessary, we supply stainless steel instead of our flexible hose. UN wall retainer includes unistrut channel and cylinder clamp set for each cylinder. We start with the UN-2 for two cylinders. Change

the model name to reflect the number cylinder positions required (i.e. UN-3, UN-4). Mounting hardware for installation is not included. RCK-0037 is heavy-duty, two-position, welded steel rack designed for horizontal or vertical cylinder configuration for stationary or mobile applications. Please specify configuration at time of order placement. Hardware for installation is not included. RCK-0037 weighs approximately 130 lbs. For storage assemblies installed in RCK-0037, reference BAUER drawing ASY-0758 for horizontal assemblies and ASY-0759 for vertical assemblies. All components are shipped loose unless purchased factory installed in RCK-0037. Installation, assembly and interconnecting piping to an existing system are the responsibility of the installer.

ASME AIR STORAGE SYSTEM

Model		Price
ASME 5000 PSIG (345)		
CYL-0009	1 cylinder	$2,678.00
ASME5K-1	1 cylinder	$3,566.00
ASME5K-2	2 cylinders	$7,211.00
ASME5K-3	3 cylinders	$10,856.00
ASME5K-4	4 cylinders	$14,502.00
ASME5K-5	5 cylinders	$18,147.00
ASME5K-6	6 cylinders	$21,793.00
ASME5K-7	7 cylinders	$25,435.00
ASME5K-8	8 cylinders	$29,081.00
ASME 6000 PSIG (414)		
CYL-0009	1 cylinder	$2,977.00
ASME6K-1	1 cylinder	$3,732.00
ASME6K-2	2 cylinders	$7,434.00
ASME6K-3	3 cylinders	$11,352.00
ASME6K-4	4 cylinders	$15,164.00
ASME6K-5	5 cylinders	$18,975.00
ASME6K-6	6 cylinders	$22,786.00
ASME6K-7	7 cylinders	$26,595.00
ASME6K-8	8 cylinders	$30,405.00
ASME CYLINDER RACKS		
ASME5K-1/ASME6K-1	RCK-0037	$710.00
ASME5K-2/ASME6K-2	RCK-0037	$710.00
ASME5K-3/ASME6K-3	RCK-0037	$1,419.00
ASME5K-4/ASME6K-4	RCK-0037	$1,419.00
ASME5K-5/ASME6K-5	RCK-0037	$2,129.00
ASME5K-6/ASME6K-6	RCK-0037	$2,129.00
ASME5K-7/ASME6K-7	RCK-0037	$2,839.00
ASME5K-8/ASME6K-8	RCK-0037	$2,839.00

ASME (AMERICAN SOCIETY MECHANICAL ENGINEERS)

When ordering ASME5K and ASME6K assemblies please specify BULK or BANK by adding to the model name (i.e. ASME5K-6/BULK or ASME5K-6/BANK). When ordering BANK assemblies please specify the number of vessels required in each BANK (i.e. ASME5K-6/BANK/2-2-1-1). Cylinder prices do not include storage rack.
ASME cylinders conform to the ASME Code Section VIII, Division 1 Latest Edition and are for non-corrosive service. ASME cylinders have a 3 to 1 (3:1) safety factor at 6000 psig and a 4 to 1 (4:1) safety factor at 5000 psig. The scope of supply for ASME5K and ASME6K cylinder assemblies includes as many CYL-0009 as specified by the model name. In addition, we will provide an ASME safety relief valve, cylinder valve and drain valve for each cylinder. BULK assemblies will be equipped with an inlet fitting, check valve, pressure gauge, and outlet fitting. BANK assemblies are designed to be used with a BAUER four bank cascade panel. Gauges are not included as they are on the cascade panel. The inlet and outlet are common fitting as there is no check valve. Our standard scope of supply includes 1/4" hose connectors for ASME5K and ASME6K assemblies. When interconnecting pigtails are necessary, we supply stainless steel instead of flexible hose. RCK-0037 is a heavy-duty, two-position, welded steel rack designed for horizontal or vertical cylinder configuration for stationary or mobile applications. Please specify configuration at time of order placement. Hardware for installation is not included. RCK-0037 weighs approximately 130 lbs. For storage assemblies installed in RCK-0037, reference BAUER drawing ASY-0758 for horizontal assemblies and ASY-0759 for vertical assemblies. Installation, assembly and interconnecting piping to an existing system are the responsibility of the installer.

Room
104
EMS Storage

6 Cylinders - Oxygen & Medical Gases (D,E) - Green - Cylinder Cart



Model #GCMDE6SC

PRICE: $300.00

https://www.usasafety.com/GCMDE6SC

This 6 cylinder capacity oxygen and medical cylinder cart is capable of handling size D, E medical cylinders (typically 4.5" diameter). It moves on two 8" semi-pneumatic wheels with steel hub and 0.5" ball bearing. The cylinder slot openings are approximately 5" square. Cylinders are held 5.5" off of the ground. Handle height is approximately 35". The mobile cylinder cart is constructed from welded steel supports that are 14 gauge, 1" round, 1" square and 0.5" square. This cart is designed for the safe transport of small compressed gas cylinders like oxygen. The cart is powder coated green. This product is made in the USA. Ships parcel. Product Dimensions (WxDxH): 18.5"x21.5"x35". *Cylinders not included*.



Status: Built to order
Shipping: Ships 2-3 weeks from order date. You will be sent a tracking # upon shipment.

Cylinder capacity: 6
Supported cylinder sizes: D, E (4.5" diameter)
Weight capacity: 250 lbs
Cart dimensions: 18.5"w x 21.5"d x 35"h

Oxygen Tank Cart Features:

- Made in the USA
- Holds oxygen and other medical gas tanks
- Two 8" semi-pneumatic wheels (1.75" wide)
- Handle height is approximately 35"
- 5" square cylinder opening
- Cylinders sit approximately 5.5" off of the ground
- All welded steel construction
- Welded steel supports
- Powder coated green finish
- Product Weight: 25 lbs

Read more product details at www.usasafety.com

Get more information: Call 877-805-8650 (M-F, 9-5 pm CST)
USA Safety Solutions, Inc | PO Box 44282 | Madison, WI 53744
P: 877-805-8650 | F: 866-465-6101 | E: sales@usasafety.com

Solid Stainless Steel Shelving - 60 x 24 x 63"



Enlarge

Top of the line. Smooth, polished shelves contain spills and fall-through.

- Recommended for commercial kitchens, labs and cleanrooms.
- 18-gauge, Type 304 stainless steel with raised edge. Washes down easily.
- Shelves adjust in 1" increments.
- NSF certified.
- Optional 5" stainless steel swivel stem casters add 6" to height.

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	IN STOCK SHIPS TODAY
H-6816	60 x 24 x 63"	4	650	144	$1,160	$1,135	1 ADD

SHIPS UNASSEMBLED VIA UPS

Additional Info Accessories/Parts Shopping Lists Request a Catalog

RELATED ITEMS

Room
105
Departmental Storage



Enlarge & Video

HEAVY-DUTY STEEL SHELVING

Highest capacity storage for motors, dies and heavy machine parts. Up to 2 tons per shelf!

- **Boltless assembly**. Shelves snap into place and adjust at 1 1/2" increments.
- Four-way access for easy loading and unloading.
- 14-gauge steel posts; 16-gauge steel shelves.
- Tough, powder-coat finish.
- Made in USA.

ADDITIONAL SHELVES

- Add extra shelves to maximize storage space.
- Boltless design for easy assembly.



72" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	ADDITIONAL SHELVES MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-3911	36 x 18 x 72"	5	5	4,000	143	$465	$450	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4857	36 x 24 x 72"				172	560	540	1 ADD	H-4857-ADD	111	107	1 ADD
H-3912	48 x 18 x 72"				178	565	545	1 ADD	H-3912-ADD	114	111	1 ADD
H-3913	48 x 24 x 72"	5	5	3,250	212	655	635	1 ADD	H-3913-ADD	132	127	1 ADD
H-7048	48 x 36 x 72"				281	935	905	1 ADD	H-7048-ADD	200	195	1 ADD
H-4862	60 x 24 x 72"				263	795	770	1 ADD	H-4862-ADD	178	173	1 ADD
H-5444	60 x 36 x 72"				327	985	955	1 ADD	H-5444-ADD	218	213	1 ADD
H-5445	72 x 18 x 72"	5	10	2,750	265	815	790	1 ADD	H-5445-ADD	185	179	1 ADD
H-3914	72 x 24 x 72"				295	890	860	1 ADD	H-3914-ADD	195	191	1 ADD
H-3915	72 x 36 x 72"				337	1,160	1,120	1 ADD	H-3915-ADD	271	262	1 ADD
H-7432	96 x 24 x 72"	5	15	2,600	472	1,445	1,400	1 ADD	H-7432-ADD	326	318	1 ADD
H-10487	96 x 36 x 72"				616	1,780	1,730	1 ADD	H-10486-ADD	425	415	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

84" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	ADDITIONAL SHELVES MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-3120	36 x 18 x 84"	5	5	4,000	148	$475	$460	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4858	36 x 24 x 84"				177	570	550	1 ADD	H-4857-ADD	111	107	1 ADD
H-3121	48 x 18 x 84"				183	575	555	1 ADD	H-3912-ADD	114	111	1 ADD
H-3122	48 x 24 x 84"	5	5	3,250	217	665	645	1 ADD	H-3913-ADD	132	127	1 ADD
H-7049	48 x 36 x 84"				286	945	915	1 ADD	H-7048-ADD	200	195	1 ADD

H-4863	60 x 24 x 84"				268	805	780	1 ADD	H-4862-ADD	178	173	1	ADD
H-5446	60 x 36 x 84"				332	995	965	1 ADD	H-5444-ADD	218	213	1	ADD
H-5447	72 x 18 x 84"	5	10	2,750	270	825	800	1 ADD	H-5445-ADD	185	179	1	ADD
H-3123	72 x 24 x 84"				300	900	870	1 ADD	H-3914-ADD	195	191	1	ADD
H-3916	72 x 36 x 84"				342	1,170	1,130	1 ADD	H-3915-ADD	271	262	1	ADD
H-7433	96 x 24 x 84"	5	15	2,600	477	1,455	1,410	1 ADD	H-7432-ADD	326	318	1	ADD
H-10488	96 x 36 x 84"				621	1,790	1,740	1 ADD	H-10486-ADD	425	415	1	ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

96" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-4259	36 x 18 x 96"	5	5	4,000	153	$485	$470	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4859	36 x 24 x 96"				182	580	560	1 ADD	H-4857-ADD	111	107	1 ADD
H-4260	48 x 18 x 96"				188	585	565	1 ADD	H-3912-ADD	114	111	1 ADD
H-4261	48 x 24 x 96"	5	5	3,250	223	675	655	1 ADD	H-3913-ADD	132	127	1 ADD
H-7050	48 x 36 x 96"				289	955	925	1 ADD	H-7048-ADD	200	195	1 ADD
H-4864	60 x 24 x 96"				272	815	790	1 ADD	H-4862-ADD	178	173	1 ADD
H-5448	60 x 36 x 96"				335	1,005	975	1 ADD	H-5444-ADD	218	213	1 ADD
H-5449	72 x 18 x 96"	5	10	2,750	275	835	810	1 ADD	H-5445-ADD	185	179	1 ADD
H-4262	72 x 24 x 96"				305	910	880	1 ADD	H-3914-ADD	195	191	1 ADD
H-4263	72 x 36 x 96"				347	1,180	1,140	1 ADD	H-3915-ADD	271	262	1 ADD
H-7434	96 x 24 x 96"	5	15	2,600	480	1,465	1,420	1 ADD	H-7432-ADD	326	318	1 ADD
H-10486	96 x 36 x 96"				624	1,800	1,750	1 ADD	H-10486-ADD	425	415	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

Model: WB183985A

EXCLUSIVE BRANDS

Global Industrial™ Mobile Workbench, 72 x 30", Adjustable Height, Shop Top Safety Edge

★★★★★ (1)





Ships Same Day

Product Description

✓ Made with reinforced, durable steel
✓ High weight capacity to handle most projects and tasks
✓ Adjustable-height C-channel legs
✓ 5" casters for mobility

Easily transport your workbench where you need it. 1-1/2" thick Shop top with safety radius

edge. Height adjustable work benches maintain a proper work height. 13-gauge C-Channel Legs are reinforced with cross bracing for extra strength and rigidity. Mobile work bench legs feature removable duplex knock-outs to accept electrical outlets (not included). Finished in scratch resistant gray powder coat. Mobile benches are easy to move on 5" casters (2 rigid, 2 swivel with brakes.)

Specifications

Weights & Dimensions

Width	72 in
Depth	30 in
Height	36 - 43 in
Weight Capacity	800 lbs
Top Thickness	1-1/2 in
Wheel Diameter	5 in
Nominal Height	36 - 43 in

Product Details

Assembly Required	Yes
Edge Type	Safety
Leg Style	C-Channel Leg
Material	Steel
Construction Type	Unassembled
Manufacturers Part Number	183985A
Brand	Global Industrial
Wheel Material	Polyurethane
Power	No
Type	Mobile Open Base Workbench

Color	Gray
Wheel Type	Locking
Adjustment Type	Bolted Leg
Duty Rating	Standard Duty
Mobile or Stationary	Mobile
Leg Type	Adjustable
Top Material	Shop Top

Room
106
Turnout Gear





Standard Wall Mount Lockers

GearGrid's Standard Wall Mount Lockers are the strongest and most versatile line of fire lockers available. Our patented design promotes maximum air movement, which minimizes odor build-up and allows damp items to dry faster. Above floor mounting eliminates the need for separate base and makes cleaning easier than ever. GearGrid offers complete customization of our lockers to match your design specifications, so you can build your locker system in any combination.

Frame: Heavy-duty 1-¼" steel tubing

Side & Back Grids: High-strength ¼" wire, 3" x 3" square grid pattern

Secure Door Options:

- Heavy-duty, welded 1-¼" OD, 16-gauge steel tube with 3" x 3" grid infill
- Heavy-duty, welded 1-¼" OD, 16-gauge steel tubing with solid MDF core laminate

Shelves/Hooks: Two shelves constructed of high-strength ¼" wire, and three apparel hooks per locker

Adjustability: Wire shelves adjustable in 3" increments

Name Plate: 20 GA. sheet metal, accepts 2" x 16" custom printed name plate. 2" x 12" nameplate on Secure Door

Mounting Brackets: 11 GA. steel

Finish: Super Durable TGIC powder coat

Colors: 7 standard colors

Shipping: Ships knocked down for ease of handling and reduced shipping costs

Assembly: With simple tools it's fast and easy

Available sizes:

Width .....18"
Depth .....20"
Height .....74-½"

Width .....20"
Depth .....20"
Height .....74-½"

Width .....24"
Depth .....20"
Height .....74-½"

Width .....24"
Depth .....24"
Height .....74-½"

Width .....24"
Depth .....32"
Height .....74-½"

Width .....30"
Depth .....24"
Height .....74-½"

Width .....36"
Depth .....24"
Height .....74-½"
Locker size includes Top-Side Storage Shelf. Not available with Secure Door option.



Free Standing Tube Wall Structure

The GearGrid Free Standing Tube Wall Structure (FSTWS) provides an additional and alternative mounting option for our Standard Wall Mount Lockers. The FSTWS uses heavy-duty floor mounting plates to securely attach the frame structure to the floor in any desired location, while maintaining the benefits of typical wall mount installation. The FSTWS allows lockers to mount on one or both sides of the structure, and will be engineered for your desired layout, locker size and quantity.

Size: Determined by locker layout

Construction: Units shall be welded at all applicable joints. Use of fasteners will only be required to allow for knock-down shipping, securing units to mounting surface and on applicable accessories

- Vertical Posts: 4 x 4, .250 wall thickness ASTM A513 steel tube
- Floor Mounting Plates: ½" steel plate welded to vertical posts. $^{3}/_{8}$" mounting holes as needed *Note: Mounting plate hole configurations subject to locker layout
- Horizontal Frames: 4" x 4, .1875 wall thickness ASTM A513 steel tube. Frames mechanically fastened to vertical posts with supplied or identified hardware *Note: If Power Bars (Electric Raceway) are used, top horizontal frame will be 6 H x 4 W, .1875 wall thickness steel tube

Finish: Super Durable TGIC powder coat

Colors: 7 standard colors

Shipping: Ships knocked down for ease of handling and reduced shipping costs

Assembly: With simple tools it's fast and easy



GEARGRID®

ACCESSORIES

Your Space, Your Way

GEARGRID's innovative accessories provide the ultimate solutions to your unique storage challenges. From our Power Bar providing fast, easy access for charging cell phones, flashlights, or radios, to our one-of-a-kind Stow-Away Seat for added convenience and comfort, **GEARGRID** heard your needs and responded with the options you need. All built with the same heavy-duty steel and attentive craftsmanship as the rest of our line, **GEARGRID** accessories let you organize your space, your way.



HEAVYHANGER



Constructed of ¼" stainless steel, this is the strongest traditional shape hanger you'll find anywhere.



SECUREBOX™



The powder-coated, aluminum SecureBox provides a safe location for personal items, and features a convenient mail slot in the door.

Dimensions: 6" W x 6" H x 12" D

GEARHANGER™



This horizontal hanging rod provides added organization, with long-lasting stainless steel construction.

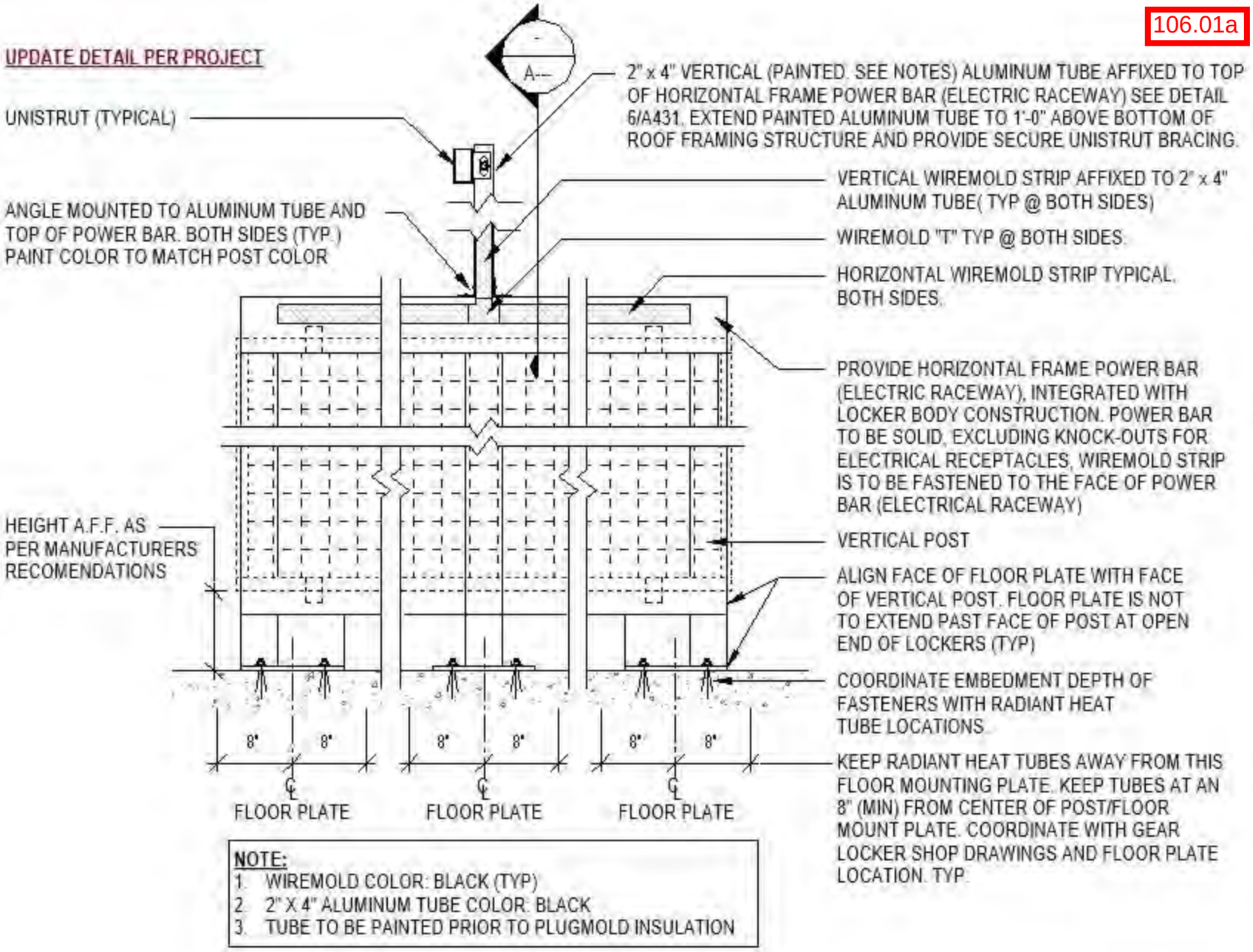
GEARDRYER™



This stainless steel hanger holds a jacket open, protecting its shape and speeding drying time.

106.01a

UPDATE DETAIL PER PROJECT



NOTE:
1. WIREMOLD COLOR: BLACK (TYP)
2. 2" X 4" ALUMINUM TUBE COLOR: BLACK
3. TUBE TO BE PAINTED PRIOR TO PLUGMOLD INSULATION

Room
107
Storage Room 1&2

Slim Storage Cabinet - 24 x 18 x 66", Unassembled, Black



More Images

SPACE SAVER

Compact cabinets utilize every inch when space is at a premium.

- Recommended for small offices, supply rooms and utility closets.
- Sturdy steel construction with attractive powder-coat finish.
- Shelves adjust in 2" increments.
- Recessed locking latch. No padlocks necessary.
- Includes 2 keys.

SPECIFY COLOR:

MODEL NO.	DESCRIPTION	NO. OF DOORS	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF CAPACITY (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	COLOR	IN STOCK SHIPS TODAY
H-6317BL	Slim	2	24 x 18 x 66"	4	200	90	$340	$325	Black	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

Additional Info Parts Shopping Lists Request a Catalog

107.02

Heavy-Duty Steel Shelving - 60 x 24 x 72"



Enlarge & Video

Highest capacity storage for motors, dies and heavy machine parts. Up to 3,250 lbs. per shelf!

- **Boltless assembly**. Shelves snap into place and adjust at 1 1/2" increments.
- Four-way access for easy loading and unloading.
- 14-gauge steel posts; 16-gauge steel shelves.
- Tough, powder-coat finish.
- Made in USA.



MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	IN STOCK SHIPS TODAY
H-4862	60 x 24 x 72"	5	5	3,250	263	$795	$770	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

Additional Info Parts Shopping Lists Request a Catalog

RELATED ITEMS



Enlarge & Video

HEAVY-DUTY STEEL SHELVING

Highest capacity storage for motors, dies and heavy machine parts. Up to 2 tons per shelf!

- **Boltless assembly**. Shelves snap into place and adjust at 1 1/2" increments.
- Four-way access for easy loading and unloading.
- 14-gauge steel posts; 16-gauge steel shelves.
- Tough, powder-coat finish.
- Made in USA.

ADDITIONAL SHELVES

- Add extra shelves to maximize storage space.
- Boltless design for easy assembly.



72" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	ADDITIONAL SHELVES MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-3911	36 x 18 x 72"	5	5	4,000	143	$465	$450	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4857	36 x 24 x 72"				172	560	540	1 ADD	H-4857-ADD	111	107	1 ADD
H-3912	48 x 18 x 72"				178	565	545	1 ADD	H-3912-ADD	114	111	1 ADD
H-3913	48 x 24 x 72"	5	5	3,250	212	655	635	1 ADD	H-3913-ADD	132	127	1 ADD
H-7048	48 x 36 x 72"				281	935	905	1 ADD	H-7048-ADD	200	195	1 ADD
H-4862	60 x 24 x 72"				263	795	770	1 ADD	H-4862-ADD	178	173	1 ADD
H-5444	60 x 36 x 72"				327	985	955	1 ADD	H-5444-ADD	218	213	1 ADD
H-5445	72 x 18 x 72"	5	10	2,750	265	815	790	1 ADD	H-5445-ADD	185	179	1 ADD
H-3914	72 x 24 x 72"				295	890	860	1 ADD	H-3914-ADD	195	191	1 ADD
H-3915	72 x 36 x 72"				337	1,160	1,120	1 ADD	H-3915-ADD	271	262	1 ADD
H-7432	96 x 24 x 72"	5	15	2,600	472	1,445	1,400	1 ADD	H-7432-ADD	326	318	1 ADD
H-10487	96 x 36 x 72"				616	1,780	1,730	1 ADD	H-10486-ADD	425	415	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

84" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	ADDITIONAL SHELVES MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-3120	36 x 18 x 84"	5	5	4,000	148	$475	$460	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4858	36 x 24 x 84"				177	570	550	1 ADD	H-4857-ADD	111	107	1 ADD
H-3121	48 x 18 x 84"				183	575	555	1 ADD	H-3912-ADD	114	111	1 ADD
H-3122	48 x 24 x 84"	5	5	3,250	217	665	645	1 ADD	H-3913-ADD	132	127	1 ADD
H-7049	48 x 36 x 84"				286	945	915	1 ADD	H-7048-ADD	200	195	1 ADD

H-4863	60 x 24 x 84"				268	805	780	1 ADD	H-4862-ADD	178	173	1	ADD
H-5446	60 x 36 x 84"				332	995	965	1 ADD	H-5444-ADD	218	213	1	ADD
H-5447	72 x 18 x 84"	5	10	2,750	270	825	800	1 ADD	H-5445-ADD	185	179	1	ADD
H-3123	72 x 24 x 84"				300	900	870	1 ADD	H-3914-ADD	195	191	1	ADD
H-3916	72 x 36 x 84"				342	1,170	1,130	1 ADD	H-3915-ADD	271	262	1	ADD
H-7433	96 x 24 x 84"	5	15	2,600	477	1,455	1,410	1 ADD	H-7432-ADD	326	318	1	ADD
H-10488	96 x 36 x 84"				621	1,790	1,740	1 ADD	H-10486-ADD	425	415	1	ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

96" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-4259	36 x 18 x 96"	5	5	4,000	153	$485	$470	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4859	36 x 24 x 96"				182	580	560	1 ADD	H-4857-ADD	111	107	1 ADD
H-4260	48 x 18 x 96"				188	585	565	1 ADD	H-3912-ADD	114	111	1 ADD
H-4261	48 x 24 x 96"	5	5	3,250	223	675	655	1 ADD	H-3913-ADD	132	127	1 ADD
H-7050	48 x 36 x 96"				289	955	925	1 ADD	H-7048-ADD	200	195	1 ADD
H-4864	60 x 24 x 96"				272	815	790	1 ADD	H-4862-ADD	178	173	1 ADD
H-5448	60 x 36 x 96"				335	1,005	975	1 ADD	H-5444-ADD	218	213	1 ADD
H-5449	72 x 18 x 96"	5	10	2,750	275	835	810	1 ADD	H-5445-ADD	185	179	1 ADD
H-4262	72 x 24 x 96"				305	910	880	1 ADD	H-3914-ADD	195	191	1 ADD
H-4263	72 x 36 x 96"				347	1,180	1,140	1 ADD	H-3915-ADD	271	262	1 ADD
H-7434	96 x 24 x 96"	5	15	2,600	480	1,465	1,420	1 ADD	H-7432-ADD	326	318	1 ADD
H-10486	96 x 36 x 96"				624	1,800	1,750	1 ADD	H-10486-ADD	425	415	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT



Enlarge & Video

METAL PLATFORM TRUCKS

Sturdy and economical for warehouses, receiving docks and manufacturing plants.

- 13 gauge steel deck.
- Durable, red powder-coat finish is easy to spot.
- Removable handle fits either end.
- Smooth rolling 6" casters: 2 swivel, 2 rigid.

METAL PLATFORM TRUCKS

MODEL NO.	DECK SIZE W x L	LOAD CAPACITY	WHEEL TYPE	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART
H-2666	24 x 48"	2,000 lbs.	Polyolefin	78	$285	$275	1 ADD
H-8154	30 x 48"	2,000 lbs.	Polyolefin	93	330	315	1 ADD
H-2667	30 x 60"			102	350	335	1 ADD
H-6708	36 x 72"	2,000 lbs.	Polyolefin	131	440	420	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

ADDITIONAL HANDLES

MODEL NO.	HANDLE WIDTH	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART
H-4972	24" Handle	10	$40	$38	1 ADD
H-4973	30" Handle	11	46	44	1 ADD
H-6709	36" Handle	13	51	49	1 ADD

SHIPS VIA UPS

Room
109
Bay Custodial

FIAT PRODUCTS

109.01

STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

TERRAZZO
12" MOP SERVICE BASIN

- One piece, precast terrazzo made of black and white marble chips in gray portland cement to produce a compressive strength not less than 3000 P.S.I. seven days after casting.
- Terrazzo surface shall be ground and polished with all air holes or pits grouted and excess removed.
- Shoulders shall be not less than 12" high outside and 10" inside at lowest wall.
- Shoulder width not less than 2” on all sides with a 1/4" pitch towards the inside.
- Standard drain body is stainless steel cast integrally and provides for a caulked lead connection not less than 1" deep to a 3" pipe.
- Stainless steel strainer # 1453BB
- Made in the U.S.A.

Options:

- QDC quick drain connectors
- Stainless steel tiling flanges available with up-charge. Must be custom order.
- Vandal proof drain. Must be custom order.

❑ **TSB100, TSB300, TSB500, TSB700 Series** with stainless steel caps on all curbs

❑ **TSB200, TSB400, TSB600, TSB800 Series** with plain curbs

Optional Components:

❑ **830AA** Mop Service Basin Fitting

❑ **832AA** Hose & Hose Bracket

❑ **1239BB** Aluminum Bumperguard with Vinyl Insert

❑ **833AA** Silicone Sealant

❑ **MSG** Wall Guards - Stainless Steel

❑ **FITF-24** Field Installable Tiling Flange, 24"

❑ **FITF-36** Field Installable Tiling Flange, 36"

❑ **889CC** Mop Hanger

❑ **889CCSHELF** Stainless Steel Shelf:
- Stainless steel rod, 3 large open hooks, three spring loaded rubber grips to hold mop handles



Shown: TSB500

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

INSTALLATIONS: Terrazzo Mop Basins **must** be installed on a 1/2" layer of mortar in order that the mop basin be level and to prevent cracking. Failure to install terrazzo without a mortar bed will void the warranty. Installations require a 1⁄4" clearance between mop basin and wall.

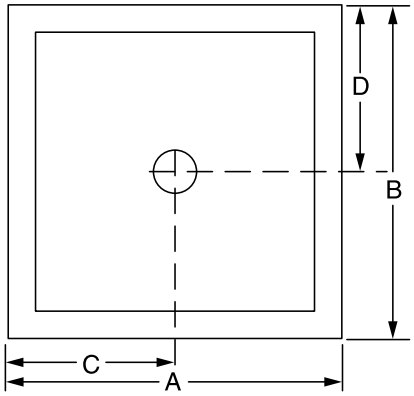
IMPORTANT: Rough-in dimensions may vary 1/2" (13mm) and are subject to change or cancellation without prior notice.

CERTIFICATIONS:
Meets requirements CSA B45.8-18 / IAPMO Z403-2018.
All models are CUPC listed

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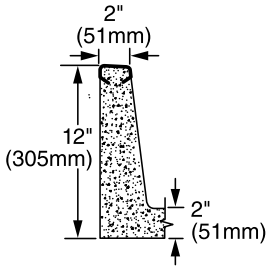
FIAT PRODUCTS

STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

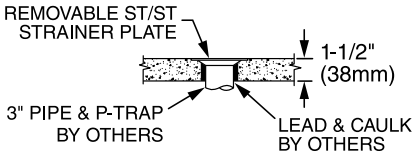


Series TSB100
With Stainless Steel Caps On All Curbs

MODEL	SIZE	A	B	C	D
TSB100	24" x 24" x 12"	24	24	12	12
TSB300	32" x 32" x 12"	32	32	16	16
TSB500	36" x 36" x 12"	36	36	18	18
TSB700	36" x 24" x 12"	36	24	18	12



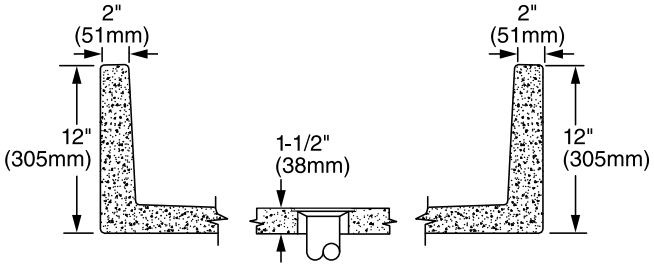
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SECTION THRU DRAIN

Series TSB200
With Plain Curbs

MODEL	SIZE	A	B	C	D
TSB200	24" x 24" x 12"	24	24	12	12
TSB400	32" x 32" x 12"	32	32	16	16
TSB600	36" x 36" x 12"	36	36	18	18
TSB800	36" x 24" x 12"	36	24	18	12



SECTION THRU THRESHOLD | SECTION THRU DRAIN (LEAD CAULK & 3" PIPE "P" TRAP BY OTHERS) | SECTION THRU SIDES

IMPORTANT: Roughing in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

FIAT PRODUCTS

CUSTOMER SERVICE
833-549-2887
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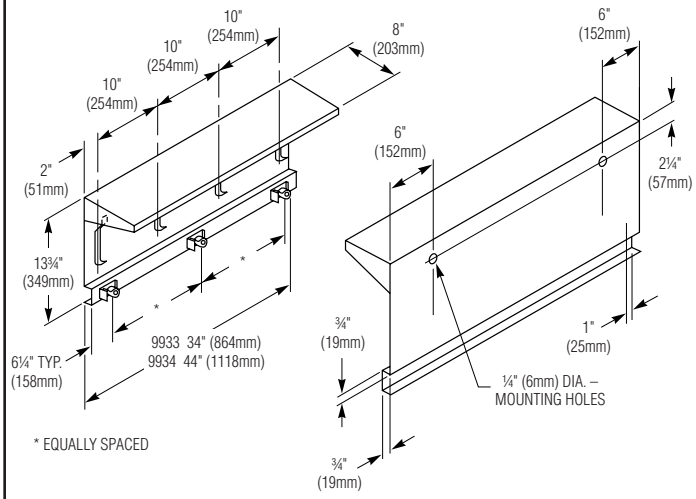
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9933, 9934
Utility Shelf

☑ Model 9933 – 4 Hooks/3 Holders ***Bradex***®

☑ Model 9934 – 5 Hooks/4 Holders





Product Materials

SHELF AND BRACKET: 18 gauge stainless steel with exposed surfaces in architectural satin finish.

HOOKS: 14 gauge stainless steel

HOLDERS: spring-activated rubber cams on plated steel retainers. Will hold a mop or broom handle with a diameter between 5/8" and 1".

Operation

Weight of mop or broom holds handle in place.

Installation

Verify all rough-in dimensions prior to installation. Secure to wall with mounting screws (included) at holes provided.

Guide Specification

Surface mounted utility shelf shall be fabricated of 18 gauge stainless steel in satin finish. Hooks shall be of 14 gauge stainless steel. Holders shall be with spring-activated rubber cams.

Orders composed of products indicated as ***Bradex***® will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

This information is subject to change without notice.

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P.O. Box 309, Menomonee Falls, WI 53052-0309
800 BRADLEY (800 272 3539) +1 262 251 6000
bradleycorp.com

ELKAY®
SPECIFICATIONS

Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit

Model(s) ESSB2520C

109.03

PRODUCT SPECIFICATIONS

Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit. Sink is manufactured from 14 gauge 304 Stainless Steel with a Buffed Satin finish, Center drain placement.

Material:	304 Stainless Steel
Finish:	Buffed Satin
Gauge:	14
Number of Bowls:	1
Sink Dimensions:	25" x 19-1/2" x 24"
Bowl 1 Dimensions:	22" x 16" x 12"
Drain Size:	3-1/2" (89mm)
Drain Location:	Center



Included with Product: **ESSB2520 sink, one LK940BR03L2H faucet, one LK173 cast iron P-trap**

▼ Ships in multiple boxes.

A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

Product Compliance: ASME A112.19.3/CSA B45.4
Buy American Act
Faucet: ADA & ICC A117.1
ASME A112.18.1/CSA B125.1
NSF 372 (lead free)
NSF 61
Accessory: ASME A112.18.2/CSA B125.2

Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Faucet complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

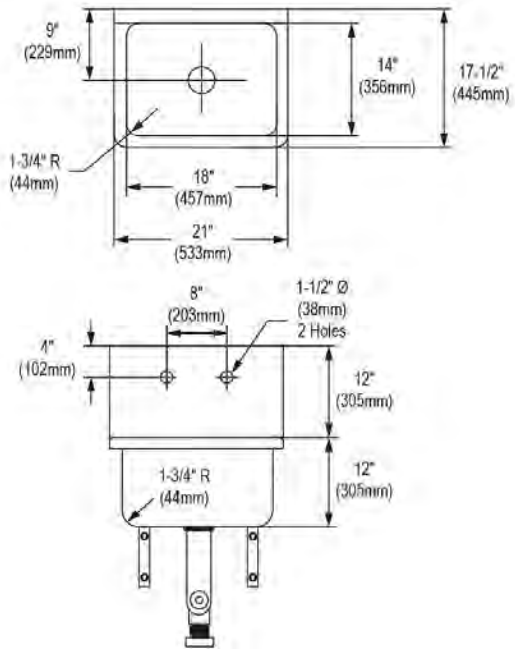
Clean and Care Manual (PDF)
Installation Instructions (PDF) - A55483
Installation Instructions (PDF) - P99365
Warranty (PDF)

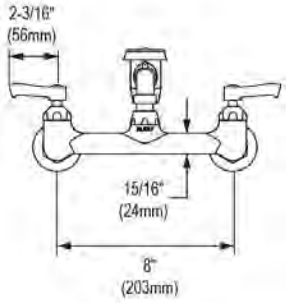
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PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

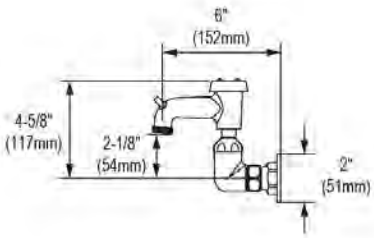
In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit

Model(s) ESSB2520C



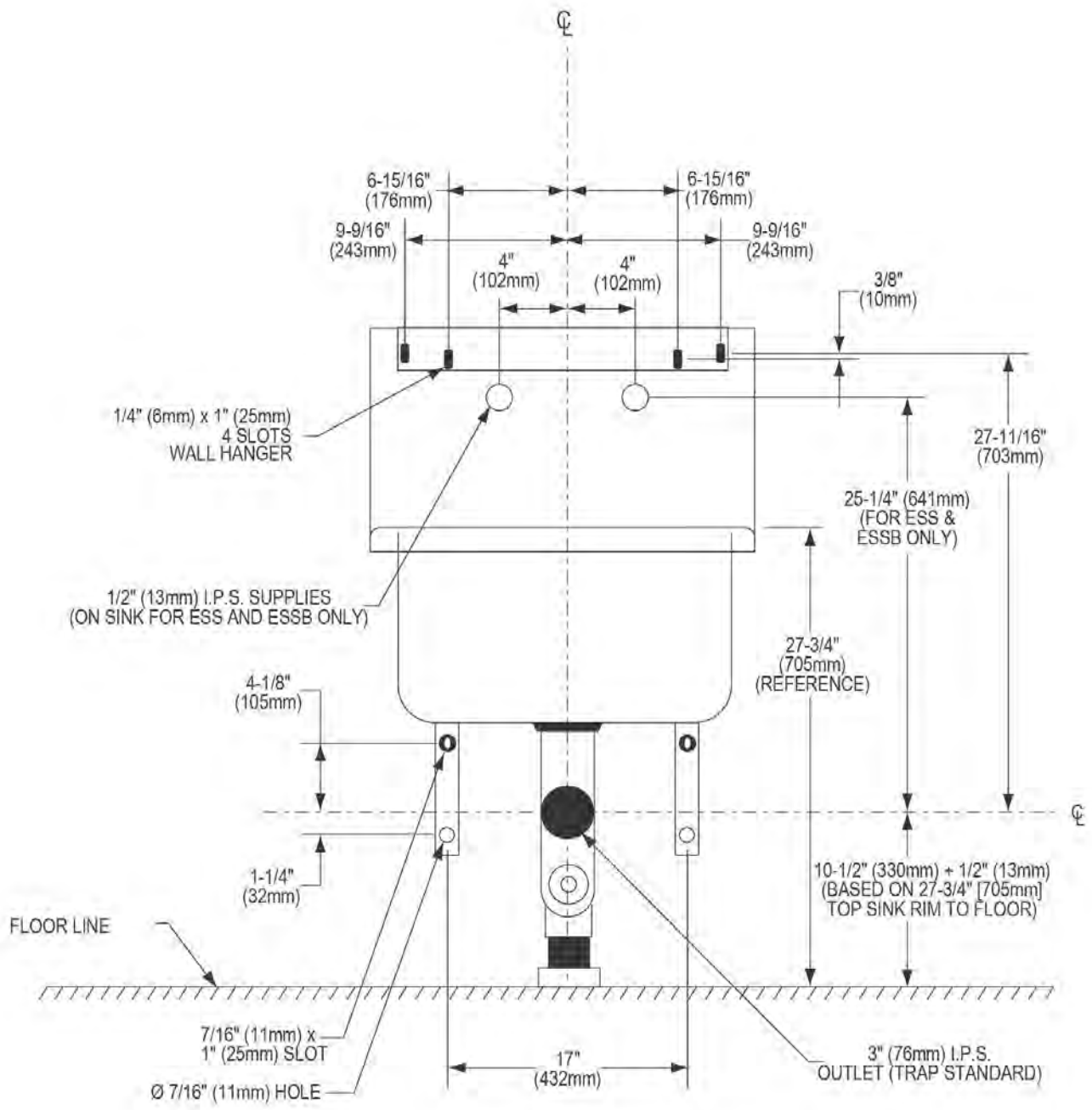




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Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit

Model(s) ESSB2520C



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109.04

10 56 13/EZS

BuyLine 3366

FOR 50 YEARS

E-Z SHELVING SYSTEMS, INC.

Manufacturer of Space-Saving Cantilever Shelving & Hardware



- Shelving Systems Manufactured to Any Size Practical
- Infinitely Adjustable Shelf Tiers
- Additional Tiers Can Be Added With No Tear Down
- Shelves Form a Continuous Backsplash
- 1 1/4" Clearance Between Wall and Shelf
- Heavy-Duty Construction
- "Spacemaker System" for Walk-In Coolers
- Shelving Available in Many Types and Finishes

website: **www.e-zshelving.com**

email: info@e-zshelving.com

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OPTION AVAILABLE

Conforms to U.S. Military Specifications

Proudly made in the U.S.A.

OUR BUILT-IN BENEFITS

E-Z Shelving Systems were designed with convenience in mind. Unlike four-post shelving, E-Z's cantilever shelving decks have no post supports to get in the way, making shelf loading and unloading – E-Z!

E-Z Shelving Advantages:

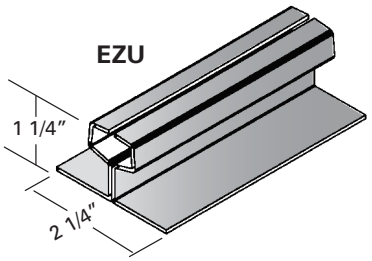
1. Open-front shelving (no posts) for 100% usable space.
2. Totally usable floor space under shelf.
3. Shelving systems manufactured to any size practical allowing for custom design at no additional cost.
4. Shelf tiers are infinitely adjustable, and new tiers can be installed without disassembly.
5. Additional tiers can be added with no tear down required.
6. Shelves form a continuous backsplash which keeps stored items nested to protect both wall and stored items.
7. Systems' design assures a 1-1/4" clearance between wall and shelf allowing for ventilation and utility chases.
8. Heavy-duty industrial grade rugged construction.
9. Special ceiling brackets allowing "Spacemaker System" to be installed in walk-in coolers.
10. Shelving available in galvanized, stainless steel, aluminum and powder coat. Shelving types include; solid, louvered, wire and NSF.

A completely flexible industrial shelving system.

UPRIGHT SPECIFICATIONS

E-Z Uprights for Wall-Mounted Storage

Shall consist of 14 gauge rolled steel channels, continuously seam-welded electro zinc plated and chromate dipped to ensure against rust and corrosion, punched to accept 1/4" lag screws, bolts, etc., for mounting to walls. Mounting holes shall begin 2" from each end.



Stock upright lengths:

EZU-1	12"	EZU-6	72"
EZU-2	24"	EZU-7	84"
EZU-3	36"	EZU-8	96"
EZU-4	48"	EZU-10	120"
EZU-5	60"	EZU-12	144"

Note: *Stock uprights can also be cut to your desired length. NSF-listed uprights, available in standard electro- zinc finish, series #304 stainless steel, or #6061-T6 extruded aluminum.*
Note: *Stainless uprights are brake formed.*

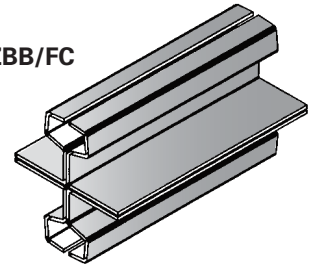
Aluminum extruded uprights (part no. EZU/A) are now available.

E-Z Uprights for Center Room Storage

Two uprights (shown below), are bolted or welded back-to-back, and used for floor-to-ceiling application. Used in conjunction with foot and ceiling bracket assemblies for secured and rigid anchoring. This provides the best method for maximizing storage space in the center of any size room.

Stock uprights available in lengths up to 12 ft. Longer uprights available upon special request.

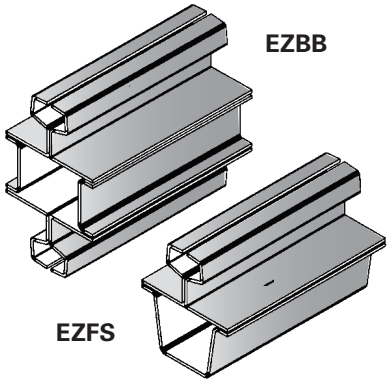
EZBB/FC



E-Z Freestanding (Single Faced) and Back-to-back (Double Faced) H.D. Uprights

Heavy-duty uprights shall consist of 14 gauge rolled steel channels, continuously seam welded, then unitized to a 14 gauge reinforcement channel, electro-zinc plated and chromate dipped. Used in conjunction with EZXB anti-sway bars.

Note: *Reinforcement channels add 3" to depth of uprights)*



Back-to-back (EZBB) (Double Faced) Unitized Upright Lengths:

EZBB-5	60"
EZBB-6	72"
EZBB-7	84"
EZBB-8	96"

Freestanding (EZFS) (Single Faced) Unitized Upright Lengths:

EZFS-5	60"
EZFS-6	72"
EZFS-7	84"
EZFS-8	96"

Other lengths available.

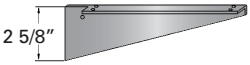
BRACKET SPECIFICATIONS

E-Z Single Shelf Brackets (EZB) with Clamps

Shall be of 12 gauge steel electro-zinc plated and chromate dipped, after fabrication, assuring complete protection of all sheared edges. Each bracket shall be furnished with E-Z clamp assembly, zinc-plated 3/8" bolt and nut. Brackets available top flanged left or right, depending on mounting position at ends of shelving runs. See chart on page 4 for recommended load limitations.

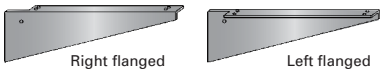


6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.



6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.

E-Z Single Shelf Brackets (EZB) with Clamps (continued)



Stock bracket sizes:

EZB-6	6″	length for	6″ shelves
EZB-8	8″	length for	8″ shelves
EZB-10	10″	length for	10″ shelves
EZB-14	14″	length for	14″ shelves
EZB-16	16″	length for	16″ shelves
EZB-18	18″	length for	18″ shelves
EZB-20	20″	length for	20″ shelves
EZB-22	22″	length for	22″ shelves
EZB-24	24″	length for	24″ shelves
EZB-26	26″	length for	26″ shelves
EZB-28	28″	length for	28″ shelves
EZB-30	30″	length for	30″ shelves

For metal shelves use the same bracket size as shelf depth to assure match up of shelf attaching holes.

For wood shelves, use bracket length 2″ shorter than the actual shelf depth. Custom bracket lengths available upon special request.

EZB denotes standard bracket style. Consult price list for NSF and stainless steel and aluminum bracket designations.

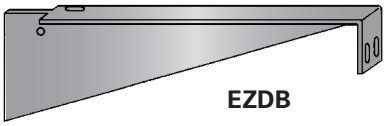
E-Z Double Brackets (EZDB) with Clamps

Shall support two adjoining shelves on a common upright. Brackets of same construction as EZB shelf bracket, with addition of a 14 gauge steel plate welded to its top horizontal flange. Double bracket shall be electro-zinc plated and chromate dipped to protect all sheared edges. Available in the following sizes specifically designed to fit the shelf size stated:

EZDB	12″	for	12″	deep shelves
EZDB	14″	for	14″	deep shelves
EZDB	16″	for	16″	deep shelves
EZDB	18″	for	18″	deep shelves
EZDB	20″	for	20″	deep shelves
EZDB	22″	for	22″	deep shelves
EZDB	24″	for	24″	deep shelves
EZDB	26″	for	26″	deep shelves
EZDB	28″	for	28″	deep shelves
EZDB	30″	for	30″	deep shelves

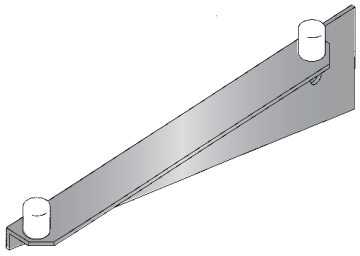
Other sizes available on special order.

Consult price list for NSF and stainless steel and aluminum double bracket designations.



EZDB

E-Z Single (EZB-K) & Double (EZDB-K) Knob Brackets



For use with wire shelving to support either a single or two adjoining wire shelves on a common upright.

Stock sizes:

12″, 14″, 15″, 18″, 21″ & 24″.

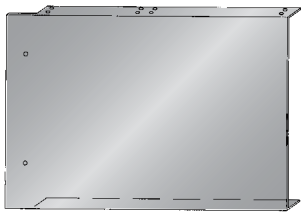
E-Z Single Foot (EZFB) & Double Foot (EZDFB) Brackets

For use with freestanding and back-to-back shelving systems. Brackets shall be furnished with 2 E-Z clamp assemblies, zinc-plated 3/8″ bolts and nuts. Brackets shall be of 12 gauge steel, electro-zinc plated and chromate dipped. Foot brackets serve as a base for the bottom shelf. Standard height is 9 1/2″.
5 1/2″ H available by special order.

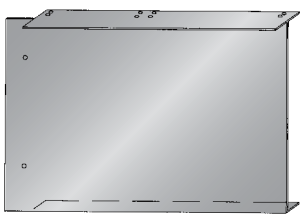
Stock Sizes:

EZFB	(or EZDFB)	129	12″ x 9 1/2″
EZFB	(or EZDFB)	149	14″ x 9 1/2″
EZFB	(or EZDFB)	169	16″ x 9 1/2″
EZFB	(or EZDFB)	189	18″ x 9 1/2″
EZFB	(or EZDFB)	209	20″ x 9 1/2″
EZFB	(or EZDFB)	229	22″ x 9 1/2″
EZFB	(or EZDFB)	249	24″ x 9 1/2″
EZFB	(or EZDFB)	269	26″ x 9 1/2″
EZFB	(or EZDFB)	289	28″ x 9 1/2″
EZFB	(or EZDFB)	309	30″ x 9 1/2″

Consult price list for NSF and stainless steel foot and double foot bracket designations.



EZFB



EZDFB

SHELF SPECIFICATIONS

Standard Finish E-Z Galvanized Steel Shelving (EZGS)

Shall be constructed of 16 gauge G-90, LFQ, ASTM A-653 galvanized sheet, with front and rear edges flanged in two directions to provide structural rigidity, and to withstand shelf failure.*See chart on page 4 for allowable loading.

Standard shelf lengths are: 36″, 48″ and 60″. Shelves of virtually any length, however, can be fabricated allowing a "glove fit" regardless of room size, and without custom upcharge.

Stock shelf depths:

EZGS 6″		EZGS 18″	EZGS 24″
EZGS 8″	EZGS 14″	EZGS 20″	EZGS 28″
EZGS 10″	EZGS 16″	EZGS 22″	EZGS 30″

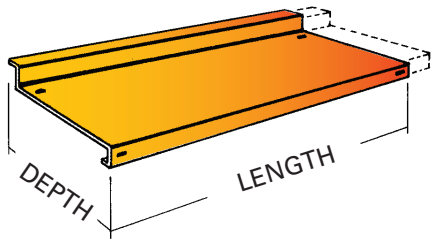
Optional shelf materials: 18 gauge, stainless steel, type #304, and .080 aluminum, series #5052.

E-Z Painted Shelving

16 gauge heavy-duty phosphate-primed steel, shall be coated with electrostatically applied plastic powder resin. Standard Colors: white, tan, black and gray. Custom colors available on request.

Technical Data:

Hardness: 2H tested in accordance with ASTM D-3363
Flexibility: Passes 1/8″ (3mm) conical mandrel tested in accordance with ASTM D-522
Impact Resistance: 160/160 direct and reverse tested in accordance with ASTM D-2794
Tensile Strength: (5,300 psi) (373 kg per square centimeter)
Elongation: 3%



Custom Tailored:

Precise shelf lengths to your specifications without custom upcharge.

INSTALLING UPRIGHTS ARE E-Z

We can provide anchoring and or blocking recommendations with your quotation per your request.

The uprights height needs to allow for top shelf to be located one foot below the top of the uprights.

Walls need sufficient backing for proper utilization of fasteners.

E-Z SHELVING SPACEMAKER™ SYSTEM

Engineered to Achieve Maximum Usage of Your Refrigerated Storage Space.

E-Z Shelving Spacemaker Systems has a unique cantilever design enhanced by the following features:

Innovative Works with both standard insulated refrigerator/freezer walls or foamed walls with thin skins. Available with accessories such as meat rail brackets, meat rails, meat hooks, etc.

Strong, Rigid, Heavy-Duty Engineered to handle your present, as well as future refrigerated commodity needs. Rolled steel or stainless steel E-Z uprights will distribute the loads in your standard foamed box without failure when installed simply as shown in the detailed sketch below. The E-Z System is guaranteed to carry the loads in your coolers and freezers per our charts.

No Wall Backing Required Experience has proven that on foamed wall sections as light as 26 gauge, ***no backing is required to mount E-Z uprights to carry capacity loads.***

No Floor Supports Required The cantilever design eliminates the need for floor supports providing an uninterrupted shelf of infinite length and yielding unobstructed floorspace, facilitating maintenance.

OUR CUSTOMER LIST:

AT&T • Alaska Airlines • Apple • Ansel Adams Museum • Army Corp of Engineers • The Australian Embassy – Washington, D.C. • BASF • Bayer Corp • Bechtel, Inc. • Boeing Military Airplanes • Brookstone • Burton Snowboards • Cal Trans • City of Los Angeles • Comcast Cable • Community Environmental Council • Conde' Nast Publications • Continental Airlines • Del Webb Development • Dow Chemical • Dupont • ExxonMobil • Federal Bureau of Prisons • General Electric • General Mills • U.S. Dept of Homeland Security • IBM • John Hopkins University Medical Center • Lever Brothers • Lockheed Martin • The Mayo Clinic • Martin Marietta • Motorola • NASA • Nabisco • National Institutes of Health • Naval Undersea Warfare Center • NYU School of Medicine • Parkland Memorial Hospital • PEPSICO • Pizza Hut • Ralph Lauren - POLO • The Smithsonian Institute • Stanford University • Trader Joe's • Tulane University • UPS • United States Department of Agriculture • United States Postal Service • University of Michigan • University of Nevada at Las Vegas • University of Pennsylvania • Medical Center – Pathology Laboratory • University of Rochester Hospital • University of Texas – Cyclotron Project • United States Embassy – Bejing, CHINA • Walt Disney Corporation • Woods Hole Oceanographic Institute • Yale University Medical School • Wired Magazine

ACCESSORIES & SPECIALTY ITEMS

- Louvered Shelves
- Turnout Gear Racks
- Wire Shelves:
  1. Zinc
  2. Chrome
  3. Epoxy
  4. Stainless Steel
- Seismic Accessories

DESIGN BASIS FOR FULL LOADS

When using 4 ft. long standard E-Z metal shelves for "continuous runs" (where two shelf sections use one common double bracket and upright), only the carrying capacity of the double bracket (EZDB) needs be considered (See Allowable Bracket Loading chart). The double bracket carries half the load of the two adjoining shelves to equal one shelf load per double bracket.

Note: The brackets at the ends of a single shelf section each carry only one half the shelf load.

Allowable Bracket Loading (per bracket)

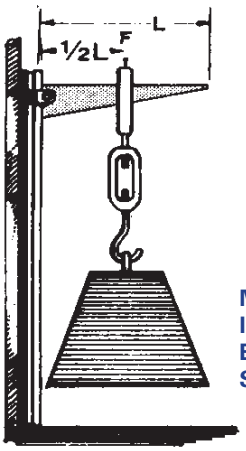
Bracket Length L	Pre-Set Angle α	Load at Failure F	Deflection at Failure D	Recommended Max. Load	Deflection at Rec. Load
6	.078″	1125 lbs.	5/32″	750 lbs.	1/16″
8	.104″	925	1/4″	625	1/8″
10	.130″	900	3/8″	590	3/16″
12	.156″	870	7/16″	560	1/4″
14	.182″	840	1/2″	540	5/16″
16	.208″	810	13/32″	530	1/4″
18	.234″	750	7/16″	465	9/32″
20	.260″	690	15/32″	395	5/16″
22	.286″	625	1/2″	390	11/32″
24	.312″	610	5/16″	360	1/8″
26	.338″	560	3/8″	345	3/16″
28	.364″	530	7/16″	335	1/4″
30	.390″	500	1/2″	310	5/16″

The following data on shelf spans is for a single shelf section and in some cases should be reduced by one half when using double brackets.

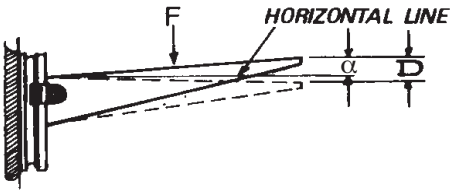
On the Allowable Bracket Loading chart, "F" (load at failure) is the load at which permanent deflection may start.

Pre-set angle of bracket (a) Position of load for testing (F) Measure of deflection at failure (D). Based upon evenly distributed weights. Not for aluminum.

E-Z Shelving Systems, Inc.
5538 Merriam Drive • Merriam, KS 66203-2548
Phone: 913.384.1331 • Fax: 913.384.3399
1-800-353-1331
www.e-zshelving.com



Method of load testing E-Z Shelving System brackets.



Allowable Shelf Loading Capacity (In Pounds Per Sq. Ft.)

SHELF SIZES (DEPTH)	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
EZGS-12	560	370	280	220	140
EZGS-16	405	270	200	160	100
EZGS-18	310	200	150	110	70
EZGS-20	235	150	117	90	60
EZGS-24	197	130	100	70	55
EZGS-28	145	96	70	60	45

Allowable Concentrated Loading in Pounds

FOR ALL SHELF SIZES	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
	800	600	450	350	300

PLANNING YOUR DESIGN OR BID

Please forward your drawing with as much of the following information available.

1. Depth x length of shelves and height of uprights.
2. Number of tiers required per section.
3. Anticipated loading and usage.
4. Shelving style, e.g., wall-mounted, freestanding, floor to ceiling and walk-in cooler with ceiling brackets.
5. Shelving finish, galvanized, stainless steel, powder coat or aluminum.
6. Shelving type, solid, louvered, NSF or wire.
7. New construction or existing walls; type of wall.
8. Destination of project with zip code.

Note: Our "Quotation Form" is available on line for you to fill out and send in. See our website: www.e-zshelving.com

T300e WALK-BEHIND FLOOR SCRUBBER

The innovative high performance scrubber designed to reduce costs to clean, improve facility image & provide a safe environment for your staff.



KEY BENEFITS

Cost Effective & Reliable

- Improved and durable components extend machine life and reduce cost of ownership.
- Effective scrubbing capabilities for clean, safe floors in fewer passes.

Versatile Cleaning Performance

- Outstanding water pick-up for reduced slip and fall accidents.
- Minimize water consumption with optional ec-H2O NanoClean® technology.
- Quiet 67 dBA noise level for daytime cleaning with minimal disruption.

Easy Operation & Maintenance

- Easy to use with ergonomic design delivers foot activated squeegee to minimize bending and wider handle for improved machine operation.
- Optional Insta-Click™ head for easy, low-touch pad attachment and removal.

KEY FEATURES

Multiple Head Options



- Head types with high down pressure and RPM's for excellent cleaning results.
- Fit your cleaning solutions and optimize cleaning performance for specific areas.

Insta-Click™



- Optional magnetic head allows pads and brushes to be ergonomically positioned and results in faster installation.

Improved Squeegee Design

- Helps ensure dirt and soils are removed from the floor for reduced risk of slip-and-fall accidents, and yellow touch points simplifies preventative maintenance and training requirements.



Stone Care Daily Maintenance Capabilities

- A complete floor care process that restores the natural beauty of porous stone and produces a remarkable, long-lasting shine with the 3M™ Stone Floor Protection System.



EXCLUSIVE TECHNOLOGY

ec-H2O NanoClean® technology electrically converted water is created by an on-board e-cell that generates millions of very tiny microscopic bubbles known as nanobubbles that promote the cleaning efficacy of the solution. This next generation solution offers the same great benefits of the first generation and now cleans better and cleans more soils in more applications.

ec H2O® NanoClean

Scan this cover for virtual demo or download App

Download on the App Store

T300e WALK-BEHIND FLOOR SCRUBBER

	SINGLE DISK		SINGLE DISK		DUAL DISK	ORBITAL
	17 IN/430 MM PAD ASSIST	17 IN/430 MM SELF-PROPEL	20 IN/500 MM PAD ASSIST	20 IN/500 MM SELF-PROPEL	24 IN/600 MM PROPEL	20 IN/500 MM SELF-PROPEL
Productivity (per hour)						
Theoretical Max	17,000 ft²/1,579 m²		20,000 ft²/1,858 m²		24,000 ft²/2,230 m²	20,000 ft²/1,858 m²
Estimated Coverage*						
Conventional	9,340 ft²/868 m²	12,453 ft²/1,157 m²	11,208 ft²/1,041 m²	14,943 ft²/1,388 m²	18,264 ft²/1,697 m²	14,943 ft²/1,388 m²
ec-H2O NanoClean®	9,668 ft²/898 m²	12,891 ft²/1,198 m²	11,602 ft²/1,078 m²	15,469 ft²/1,437 m²	18,906 ft²/1,756 m²	15,469 ft²/1,437 m²
BRUSH DRIVE SYSTEM						
Scrub motor	24 VDC, 0.68 hp/ 0.50 kW		24 VDC, 0.68 hp/ 0.50 kW		24 VDC, 1 hp/0.75 kW	0.6 hp/0.45 kW
Brush/pad RPM	150 rpm		150 rpm		285 rpm	2,200 rpm
Brush/pad pressure	47 lbs/21 kg Optional 86 lbs/39 kg		51 lbs/23 kg Optional 90 lbs/41 kg		57 lbs/26 kg Optional 97 lbs/44 kg	63 lbs/29 kg Optional 109 lbs/49 kg
SOLUTION/RECOVERY SYSTEM						
Solution tank capacity	11 gal/42 L		11 gal/42 L		11 gal/42 L	11 gal/42 L
Recovery tank capacity	14 gal/53 L		14 gal/53 L		14 gal/53 L	14 gal/53 L
Vacuum motor	24 VDC, 0.5 hp/0.37 kW		24 VDC, 0.5 hp/0.37 kW		24 VDC, 0.5 hp/ 0.37 kW	24 VDC, 0.6 hp/ 0.37 kW
Vacuum waterlift	34.5 in / 876 mm		34.5 in / 876 mm		34.5 in / 876 mm	34.5 in / 876 mm
CLEANING TECHNOLOGY						
Conventional	Standard		Standard		Standard	Standard
ec-H2O NanoClean®	Optional		Optional		Optional	Optional
BATTERY SYSTEM						
System voltage	24 volt		24 volt		24 volt	24 volt
Battery types (Wet 130AH, Wet 150AH, Sealed AGM 140AH)	2 required		2 required		2 required	2 required
Battery run time (up to hours)	3.9	3.6	3.3	3.1	3.4	3.7
On-board charger	Standard		Standard		Standard	Standard
MACHINE SPECIFICATIONS						
Length	51.25 in/1,302 mm		54 in/1,372 mm		51.75 in/1,314 mm	49 in/1,245 mm
Width	20 in/500 mm		22 in/559 mm		26 in/660 mm	20.5 in/521 mm
Height	43.10 in/1,095 mm		43.10 in/1,095 mm		43.10 in/1,095 mm	43.10 in/1,095 mm
Weight (without batteries)	220 lbs/98 kg	230 lbs/104 kg	230 lbs/104 kg	240 lbs/109 kg	250 lbs/113 kg	255 lbs/116 kg
Weight (with batteries)	366 lbs/166 kg	390 lbs/177 kg	376 lbs/171 kg	400 lbs/181 kg	410 lbs/186 kg	415 lbs/188 kg
Sound level (operator's ear)	67 dBA		67 dBA		67.7 dBA	67.5 dBA
WARRANTY						
See your local representative for warranty information						

* Estimated coverage rates use the practical speed and empty/fill time standards from the 2004 ISSA Cleaning Times handbook.
** Run times are based on Continuous Scrubbing Run Times.
*** Sound levels per ISO 11201 as recommended by the American Association of Cleaning Equipment Manufacturers & OSHA.

Specifications subject to change without notice.

NFSI HIGH-TRACTION ec-H2O NanoClean® technology is NFSI (National Floor Safety Institute) Certified

NSF ec-H2O NanoClean technology is registered by NSF International

SEEING IS BELIEVING

For a demonstration or additional information, call +1.800.553.8033 or email info@tennantco.com

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info@tennantco.com

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Room
110
SCBA Shop

ADVANCE TABCO®
SMART FABRICATION™

STAINLESS STEEL
HAND SINKS NSF
STANDARD

SPLASH MOUNTED FAUCETS



7-PS-68

Item #: _____ ***Qty #:*** _____

Model #: _____

Project #: _____

Keyhole Bracket for easier installation and greater stability.



FEATURES:

One piece **Deep Drawn** sink bowl design.

Sink bowl is 10" x 14" x 5". (

7-PS-45 sink bowl size is 16" x 20" x 8"

7-PS-49 sink bowl size is 16" x 14" x 8"

All sink bowls have a large liberal radii with a minimum dimension of 2" and are rectangular in design for increased capacity.

Keyhole wall mount bracket.

Stainless steel basket drain 1-1/2" IPS.

Specific Features:

7-PS-50 features lever operated drain and built-in overflow with plastic overflow tube and spring clamps. P-Trap is 1 1/2".

7-PS-54 features P-Trap only. P-Trap is 1 1/2".

7-PS-20 4" O.C. deck mounted centerset faucet furnished with aerator.

7-PS-50 & 7-PS-60 4" O.C. splash mounted gooseneck faucet, chrome plated & furnished with aerator.

7-PS-45 Same as above plus 2 Support Brackets (Hardware Included).

7-PS-67 features lever operated drain.

7-PS-68 4" O.C. splash mounted gooseneck faucet with Wrist Handles, chrome plated & furnished with aerator.

CONSTRUCTION:

All TIG welded.

Welded areas blended to match adjacent surfaces and to a satin finish.

Die formed Countertop Edge with a No-Drip offset.

One sheet of stainless steel - No Seams.

MATERIAL:

Heavy gauge type 304 series stainless steel.

Wall mounting bracket is Galvanized and of offset design.

All fittings are brass / chrome plated unless otherwise indicated.

MECHANICAL:

Faucet supply is 1/2" IPS male thread hot and cold.

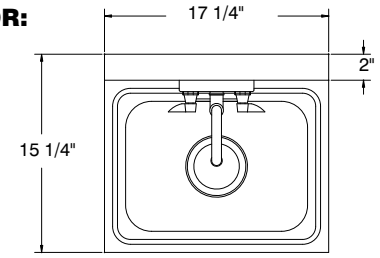
Standard Faucet conforms to NSF 61 Standard 9. An optional faucet upgrade is required for compliance to AB 1953 Standards.

For Replacement Faucets & Upgrades, Drains & Accessories visit our website at www.advancetabco.com

DIMENSIONS and SPECIFICATIONS

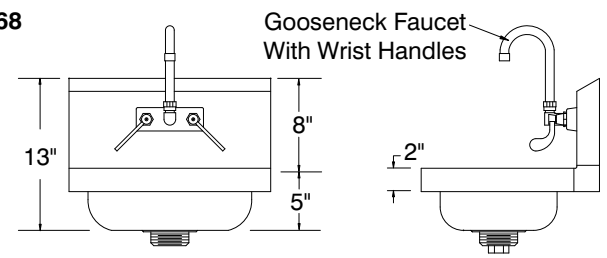
TOL Overall: ± .500" Interior: ± .250" **FITTINGS SUPPLIED AS SHOWN** **ALL DIMENSIONS ARE TYPICAL**

TOP VIEW FOR:
7-PS-50
7-PS-54
7-PS-60
7-PS-68
7-PS-70



Sink Bowl 10" x 14" x 5"

7-PS-68



13 lbs.

ADVANCE TABCO®
SMART FABRICATION™

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

© ADVANCE TABCO, OCTOBER 2011

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FOR 50 YEARS

E-Z SHELVING SYSTEMS, INC.

Manufacturer of Space-Saving Cantilever Shelving & Hardware



- Shelving Systems Manufactured to Any Size Practical
- Infinitely Adjustable Shelf Tiers
- Additional Tiers Can Be Added With No Tear Down
- Shelves Form a Continuous Backsplash
- 1 1/4" Clearance Between Wall and Shelf
- Heavy-Duty Construction
- "Spacemaker System" for Walk-In Coolers
- Shelving Available in Many Types and Finishes

***website:* www.e-zshelving.com**

email: info@e-zshelving.com

USDA APPROVED

NSF

OPTION AVAILABLE

Conforms to U.S. Military Specifications

Proudly made in the U.S.A.

OUR BUILT-IN BENEFITS

E-Z Shelving Systems were designed with convenience in mind. Unlike four-post shelving, E-Z's cantilever shelving decks have no post supports to get in the way, making shelf loading and unloading – E-Z!

E-Z Shelving Advantages:

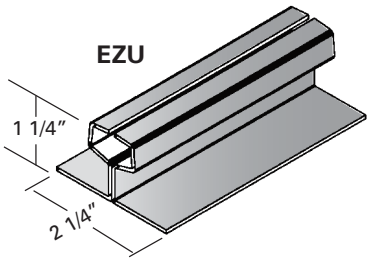
1. Open-front shelving (no posts) for 100% usable space.
2. Totally usable floor space under shelf.
3. Shelving systems manufactured to any size practical allowing for custom design at no additional cost.
4. Shelf tiers are infinitely adjustable, and new tiers can be installed without disassembly.
5. Additional tiers can be added with no tear down required.
6. Shelves form a continuous backsplash which keeps stored items nested to protect both wall and stored items.
7. Systems' design assures a 1-1/4" clearance between wall and shelf allowing for ventilation and utility chases.
8. Heavy-duty industrial grade rugged construction.
9. Special ceiling brackets allowing "Spacemaker System" to be installed in walk-in coolers.
10. Shelving available in galvanized, stainless steel, aluminum and powder coat. Shelving types include; solid, louvered, wire and NSF.

A completely flexible industrial shelving system.

UPRIGHT SPECIFICATIONS

E-Z Uprights for Wall-Mounted Storage

Shall consist of 14 gauge rolled steel channels, continuously seam-welded electro zinc plated and chromate dipped to ensure against rust and corrosion, punched to accept 1/4" lag screws, bolts, etc., for mounting to walls. Mounting holes shall begin 2" from each end.



Stock upright lengths:

EZU-1	12"	EZU-6	72"
EZU-2	24"	EZU-7	84"
EZU-3	36"	EZU-8	96"
EZU-4	48"	EZU-10	120"
EZU-5	60"	EZU-12	144"

Note: *Stock uprights can also be cut to your desired length. NSF-listed uprights, available in standard electro- zinc finish, series #304 stainless steel, or #6061-T6 extruded aluminum.*
Note: *Stainless uprights are brake formed.*

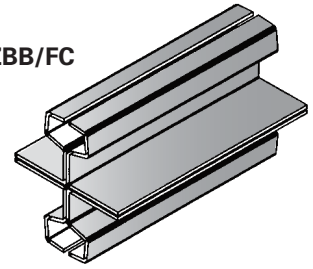
Aluminum extruded uprights (part no. EZU/A) are now available.

E-Z Uprights for Center Room Storage

Two uprights (shown below), are bolted or welded back-to-back, and used for floor-to-ceiling application. Used in conjunction with foot and ceiling bracket assemblies for secured and rigid anchoring. This provides the best method for maximizing storage space in the center of any size room.

Stock uprights available in lengths up to 12 ft. Longer uprights available upon special request.

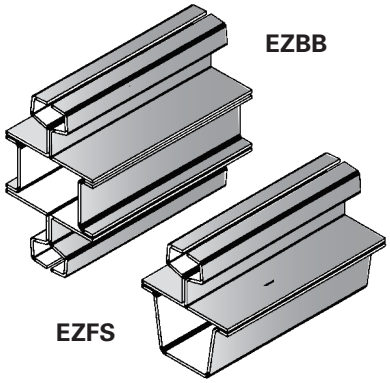
EZBB/FC



E-Z Freestanding (Single Faced) and Back-to-back (Double Faced) H.D. Uprights

Heavy-duty uprights shall consist of 14 gauge rolled steel channels, continuously seam welded, then unitized to a 14 gauge reinforcement channel, electro-zinc plated and chromate dipped. Used in conjunction with EZXB anti-sway bars.

Note: *Reinforcement channels add 3" to depth of uprights)*



Back-to-back (EZBB) (Double Faced) Unitized Upright Lengths:

EZBB-5	60"
EZBB-6	72"
EZBB-7	84"
EZBB-8	96"

Freestanding (EZFS) (Single Faced) Unitized Upright Lengths:

EZFS-5	60"
EZFS-6	72"
EZFS-7	84"
EZFS-8	96"

Other lengths available.

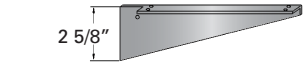
BRACKET SPECIFICATIONS

E-Z Single Shelf Brackets (EZB) with Clamps

Shall be of 12 gauge steel electro-zinc plated and chromate dipped, after fabrication, assuring complete protection of all sheared edges. Each bracket shall be furnished with E-Z clamp assembly, zinc-plated 3/8" bolt and nut. Brackets available top flanged left or right, depending on mounting position at ends of shelving runs. See chart on page 4 for recommended load limitations.

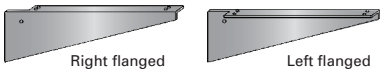


6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.



6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.

E-Z Single Shelf Brackets (EZB) with Clamps (continued)



Stock bracket sizes:

EZB-6	6″	length for	6″ shelves
EZB-8	8″	length for	8″ shelves
EZB-10	10″	length for	10″ shelves
EZB-14	14″	length for	14″ shelves
EZB-16	16″	length for	16″ shelves
EZB-18	18″	length for	18″ shelves
EZB-20	20″	length for	20″ shelves
EZB-22	22″	length for	22″ shelves
EZB-24	24″	length for	24″ shelves
EZB-26	26″	length for	26″ shelves
EZB-28	28″	length for	28″ shelves
EZB-30	30″	length for	30″ shelves

For metal shelves use the same bracket size as shelf depth to assure match up of shelf attaching holes.

For wood shelves, use bracket length 2″ shorter than the actual shelf depth. Custom bracket lengths available upon special request.

EZB denotes standard bracket style. Consult price list for NSF and stainless steel and aluminum bracket designations.

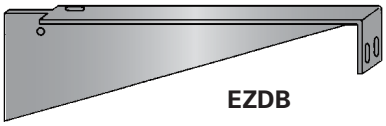
E-Z Double Brackets (EZDB) with Clamps

Shall support two adjoining shelves on a common upright. Brackets of same construction as EZB shelf bracket, with addition of a 14 gauge steel plate welded to its top horizontal flange. Double bracket shall be electro-zinc plated and chromate dipped to protect all sheared edges. Available in the following sizes specifically designed to fit the shelf size stated:

EZDB	12″	for	12″	deep shelves
EZDB	14″	for	14″	deep shelves
EZDB	16″	for	16″	deep shelves
EZDB	18″	for	18″	deep shelves
EZDB	20″	for	20″	deep shelves
EZDB	22″	for	22″	deep shelves
EZDB	24″	for	24″	deep shelves
EZDB	26″	for	26″	deep shelves
EZDB	28″	for	28″	deep shelves
EZDB	30″	for	30″	deep shelves

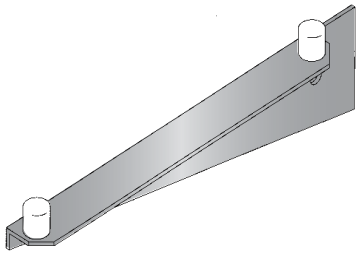
Other sizes available on special order.

Consult price list for NSF and stainless steel and aluminum double bracket designations.



EZDB

E-Z Single (EZB-K) & Double (EZDB-K) Knob Brackets



For use with wire shelving to support either a single or two adjoining wire shelves on a common upright.

Stock sizes:

12″, 14″, 15″, 18″, 21″ & 24″.

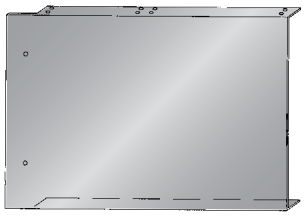
E-Z Single Foot (EZFB) & Double Foot (EZDFB) Brackets

For use with freestanding and back-to-back shelving systems. Brackets shall be furnished with 2 E-Z clamp assemblies, zinc-plated 3/8″ bolts and nuts. Brackets shall be of 12 gauge steel, electro-zinc plated and chromate dipped. Foot brackets serve as a base for the bottom shelf. Standard height is 9 1/2″.
5 1/2″ H available by special order.

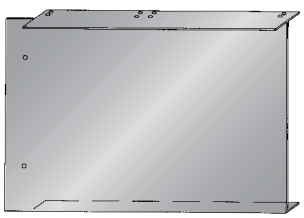
Stock Sizes:

EZFB	(or EZDFB)	129	12″ x 9 1/2″
EZFB	(or EZDFB)	149	14″ x 9 1/2″
EZFB	(or EZDFB)	169	16″ x 9 1/2″
EZFB	(or EZDFB)	189	18″ x 9 1/2″
EZFB	(or EZDFB)	209	20″ x 9 1/2″
EZFB	(or EZDFB)	229	22″ x 9 1/2″
EZFB	(or EZDFB)	249	24″ x 9 1/2″
EZFB	(or EZDFB)	269	26″ x 9 1/2″
EZFB	(or EZDFB)	289	28″ x 9 1/2″
EZFB	(or EZDFB)	309	30″ x 9 1/2″

Consult price list for NSF and stainless steel foot and double foot bracket designations.



EZFB



EZDFB

SHELF SPECIFICATIONS

Standard Finish E-Z Galvanized Steel Shelving (EZGS)

Shall be constructed of 16 gauge G-90, LFQ, ASTM A-653 galvanized sheet, with front and rear edges flanged in two directions to provide structural rigidity, and to withstand shelf failure.*See chart on page 4 for allowable loading.

Standard shelf lengths are: 36″, 48″ and 60″. Shelves of virtually any length, however, can be fabricated allowing a "glove fit" regardless of room size, and without custom upcharge.

Stock shelf depths:

EZGS 6″		EZGS 18″	EZGS 24″
EZGS 8″	EZGS 14″	EZGS 20″	EZGS 28″
EZGS 10″	EZGS 16″	EZGS 22″	EZGS 30″

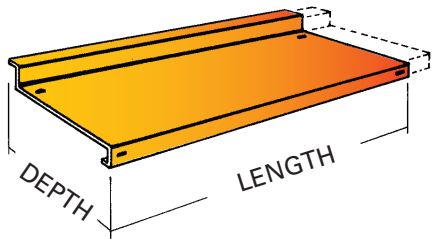
Optional shelf materials: 18 gauge, stainless steel, type #304, and .080 aluminum, series #5052.

E-Z Painted Shelving

16 gauge heavy-duty phosphate-primed steel, shall be coated with electrostatically applied plastic powder resin. Standard Colors: white, tan, black and gray. Custom colors available on request.

Technical Data:

Hardness: 2H tested in accordance with ASTM D-3363
Flexibility: Passes 1/8″ (3mm) conical mandrel tested in accordance with ASTM D-522
Impact Resistance: 160/160 direct and reverse tested in accordance with ASTM D-2794
Tensile Strength: (5,300 psi) (373 kg per square centimeter)
Elongation: 3%



Custom Tailored:

Precise shelf lengths to your specifications without custom upcharge.

INSTALLING UPRIGHTS ARE E-Z

We can provide anchoring and or blocking recommendations with your quotation per your request.

The uprights height needs to allow for top shelf to be located one foot below the top of the uprights.

Walls need sufficient backing for proper utilization of fasteners.

E-Z SHELVING SPACEMAKER™ SYSTEM

Engineered to Achieve Maximum Usage of Your Refrigerated Storage Space.

E-Z Shelving Spacemaker Systems has a unique cantilever design enhanced by the following features:

Innovative Works with both standard insulated refrigerator/freezer walls or foamed walls with thin skins. Available with accessories such as meat rail brackets, meat rails, meat hooks, etc.

Strong, Rigid, Heavy-Duty Engineered to handle your present, as well as future refrigerated commodity needs. Rolled steel or stainless steel E-Z uprights will distribute the loads in your standard foamed box without failure when installed simply as shown in the detailed sketch below. The E-Z System is guaranteed to carry the loads in your coolers and freezers per our charts.

No Wall Backing Required Experience has proven that on foamed wall sections as light as 26 gauge, ***no backing is required to mount E-Z uprights to carry capacity loads.***

No Floor Supports Required The cantilever design eliminates the need for floor supports providing an uninterrupted shelf of infinite length and yielding unobstructed floorspace, facilitating maintenance.

OUR CUSTOMER LIST:

AT&T • Alaska Airlines • Apple • Ansel Adams Museum • Army Corp of Engineers • The Australian Embassy – Washington, D.C. • BASF • Bayer Corp • Bechtel, Inc. • Boeing Military Airplanes • Brookstone • Burton Snowboards • Cal Trans • City of Los Angeles • Comcast Cable • Community Environmental Council • Conde' Nast Publications • Continental Airlines • Del Webb Development • Dow Chemical • Dupont • ExxonMobil • Federal Bureau of Prisons • General Electric • General Mills • U.S. Dept of Homeland Security • IBM • John Hopkins University Medical Center • Lever Brothers • Lockheed Martin • The Mayo Clinic • Martin Marietta • Motorola • NASA • Nabisco • National Institutes of Health • Naval Undersea Warfare Center • NYU School of Medicine • Parkland Memorial Hospital • PEPSICO • Pizza Hut • Ralph Lauren - POLO • The Smithsonian Institute • Stanford University • Trader Joe's • Tulane University • UPS • United States Department of Agriculture • United States Postal Service • University of Michigan • University of Nevada at Las Vegas • University of Pennsylvania • Medical Center – Pathology Laboratory • University of Rochester Hospital • University of Texas – Cyclotron Project • United States Embassy – Bejing, CHINA • Walt Disney Corporation • Woods Hole Oceanographic Institute • Yale University Medical School • Wired Magazine

ACCESSORIES & SPECIALTY ITEMS

- Louvered Shelves
- Turnout Gear Racks
- Wire Shelves:
  1. Zinc
  2. Chrome
  3. Epoxy
  4. Stainless Steel
- Seismic Accessories

DESIGN BASIS FOR FULL LOADS

When using 4 ft. long standard E-Z metal shelves for "continuous runs" (where two shelf sections use one common double bracket and upright), only the carrying capacity of the double bracket (EZDB) needs be considered (See Allowable Bracket Loading chart). The double bracket carries half the load of the two adjoining shelves to equal one shelf load per double bracket.

Note: The brackets at the ends of a single shelf section each carry only one half the shelf load.

Allowable Bracket Loading (per bracket)

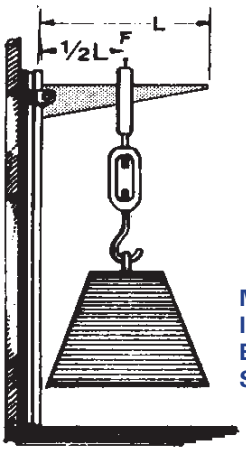
Bracket Length L	Pre-Set Angle α	Load at Failure F	Deflection at Failure D	Recommended Max. Load	Deflection at Rec. Load
6	.078″	1125 lbs.	5/32″	750 lbs.	1/16″
8	.104″	925	1/4″	625	1/8″
10	.130″	900	3/8″	590	3/16″
12	.156″	870	7/16″	560	1/4″
14	.182″	840	1/2″	540	5/16″
16	.208″	810	13/32″	530	1/4″
18	.234″	750	7/16″	465	9/32″
20	.260″	690	15/32″	395	5/16″
22	.286″	625	1/2″	390	11/32″
24	.312″	610	5/16″	360	1/8″
26	.338″	560	3/8″	345	3/16″
28	.364″	530	7/16″	335	1/4″
30	.390″	500	1/2″	310	5/16″

The following data on shelf spans is for a single shelf section and in some cases should be reduced by one half when using double brackets.

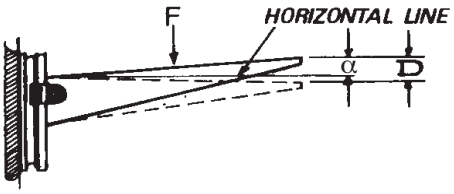
On the Allowable Bracket Loading chart, "F" (load at failure) is the load at which permanent deflection may start.

Pre-set angle of bracket (a) Position of load for testing (F) Measure of deflection at failure (D). Based upon evenly distributed weights. Not for aluminum.

E-Z Shelving Systems, Inc.
5538 Merriam Drive • Merriam, KS 66203-2548
Phone: 913.384.1331 • Fax: 913.384.3399
1-800-353-1331
www.e-zshelving.com



Method of load testing E-Z Shelving System brackets.



Allowable Shelf Loading Capacity (In Pounds Per Sq. Ft.)

SHELF SIZES (DEPTH)	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
EZGS-12	560	370	280	220	140
EZGS-16	405	270	200	160	100
EZGS-18	310	200	150	110	70
EZGS-20	235	150	117	90	60
EZGS-24	197	130	100	70	55
EZGS-28	145	96	70	60	45

Allowable Concentrated Loading in Pounds

FOR ALL SHELF SIZES	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
	800	600	450	350	300

PLANNING YOUR DESIGN OR BID

Please forward your drawing with as much of the following information available.

1. Depth x length of shelves and height of uprights.
2. Number of tiers required per section.
3. Anticipated loading and usage.
4. Shelving style, e.g., wall-mounted, freestanding, floor to ceiling and walk-in cooler with ceiling brackets.
5. Shelving finish, galvanized, stainless steel, powder coat or aluminum.
6. Shelving type, solid, louvered, NSF or wire.
7. New construction or existing walls; type of wall.
8. Destination of project with zip code.

Note: Our "Quotation Form" is available on line for you to fill out and send in. See our website: www.e-zshelving.com

STAINLESS STEEL

110.03

QUALITY IN PRODUCT • PRECISION IN PROCESS • STRENGTH IN PEOPLE

STAINLESS STEEL



mott MANUFACTURING

ISO 9001:2008 REGISTERED

QUALITY BY DESIGN

Mott Manufacturing provides complete solutions for all your laboratory needs. We offer a full line of products featuring quality steel laboratory furniture, premium grade architectural wood casework, flexible and mobile furniture systems, high performance and custom fume hoods, custom stainless steel work surfaces and sinks. We have been serving the industrial, pharmaceutical, education, health care and government markets since the early 1960's. Since each laboratory's needs are unique, we can design and engineer products to meet your exact requirements.

Customer Satisfaction is Mott's First Priority

Delivering industry-leading customer service is more than just words to the Mott Team. We know that satisfied customers drive our success. We therefore provide our customers with the following key values:

Consistent Product Quality

Our ISO 9001 Registered Quality Management System, supported by quality materials and skilled employees, ensures only high quality product is shipped.

Just-in-Time Delivery Capability

Our six week manufacturing lead time, along with our high on-time and complete shipment performance, provide exceptional reliability to our customers.

Adaptable Product Line

Our extensive modular product line permits our customers to readily configure the most productive solution to meet their specific requirements. Our flexible manufacturing capabilities allow convenient modification of standard components to fit the unique requirements of each laboratory.

Competitive Value

Our several decades of application experience allows us to provide productive furniture solutions to our customers. This experience, along with our high product quality, custom manufacturing capability, consistently strong service levels, and competitive pricing provide high value to our customers.

Extensive Dealer Network

Our dealers are the best. We build strong relationships with our dealers to provide, in partnership, industry-leading service levels. Our dealers' on site leadership and years of experience combined with our design and manufacturing skills deliver the very best in laboratory furniture solutions.





mott MANUFACTURING

ISO 9001:2008 REGISTERED

Corporate Headquarters
452 Hardy Rd, Brantford ON, Canada N3T 5L8
T. 519.752.7825 • F. 519.752.2895

Wood Casework Division - 562 Industrial Park Rd,
P.O. Box 156, Maxwelton, WV, USA 24957
T. 304.497.2115

www.mott.ca

SEFA

AUGUST 2011

mott MANUFACTURING

ISO 9001:2008 REGISTERED

Quality Assured...

Mott's extensive stainless steel product offering is designed and manufactured to deliver practical solutions to specialized laboratory environments. Mott's stainless steel furniture and fume hoods are highly durable, easy to clean, simple to maintain and have an extended product life providing an exceptional value.

Mott's entire standard product line is available in stainless steel or can be custom designed for specific applications. The manufacturing process begins with the selection of quality ASTM A 240 Type 304 or 316 stainless steel and is welded using the Tungsten Inert Gas (TIG) method. The result is truly attractive laboratory furniture that will justifiably complement any laboratory.

Numerous North American laboratories feature Mott's stainless steel furniture. Applications include clean rooms, operating rooms, animal facilities, wash up areas, pharmaceutical and food manufacturing environments that feature high use of water wash-down to eliminate contamination and maintain excellent cleanliness.

Mott's commitment to quality through our ISO Quality Management system assures the reliable, long life of our entire product line of stainless steel furniture and fume hoods.



- **Moisture & Corrosion Resistance** - Properly selected and maintained stainless steel provides excellent moisture and corrosion resistance in several applications.
- **Impact Resistance** - Stainless steel's high yield strength, even at elevated temperatures, provides high impact strength and therefore ensures durability and extended product life.
- **Easy to Sanitize** - Stainless steel work surfaces with smooth radius corners make it ideal for environments requiring high levels of cleanliness. This includes applications such as pharmaceutical manufacturing, food processing, health care, agricultural products and services, clean rooms, operating rooms, animal labs, autopsy areas, and radioactive processes.
- **Attractive & Aesthetic Appearance** - Polished stainless steel provides bright, easily maintainable surfaces resulting in contemporary furniture design.
- **Fume Hoods** - All Mott's standard and premium fume hood designs are readily available in stainless steel construction. Hoods can be custom designed and manufactured to meet specific application requirements. Features can include cove corner liners with integral work surfaces where high levels of cleanliness are required.
- **Friendly to the Environment** - Stainless steel products are 100% recyclable and have value even after a very long life in the laboratory. 60% - 85% of new stainless steel comes from old remelted stainless steel scrap; which contributes to LEED® credit MR4.

CLASSIFIED UL

Mott's fume hoods meet UL 1805 requirements and are classified by Underwriters Laboratories Inc. as to fire, electrical, and mechanical hazards only. Control number 68SN.

STAINLESS STEEL PRODUCTS

Stainless Steel Introduction

The full range of Mott cabinetry - from base cabinets to tall floor mounted cabinets - are available in 304 or 316 stainless steel. Mott Manufacturing specializes in the integration of custom design features and/or dimensions into stainless steel laboratory furniture components. The following is a sample listing of other furniture components that can be manufactured in 304 or 316 stainless steel:

- Counter tops
- Filler panels
- Aprons
- Tables - fixed and mobile
- Exhaust canopies

Stainless Steel Grades

The most common stainless steel grades required in laboratory applications are 304 or 316. 304 grade is widely used for cabinetry while the 316 grade is more often specified for more demanding applications such as counter tops and fume hood liners.

304 grade stainless steel is the most versatile and one of the most widely applied stainless steel grades for laboratory use. High quality laboratory furniture components can be readily manufactured from this grade because it has excellent forming and welding characteristics. This grade also has excellent corrosion resistance, further corrosion resistance details are available from Mott Manufacturing or its dealers upon request.

316 grade stainless steel is specified for the more demanding laboratory environments. This molybdenum bearing, higher nickel content grade delivers superior corrosion resistance, improved stain resistance and strengthened chloride attack resistance benefits to laboratory furniture. This grade has excellent corrosion resistance to a wider range of chemicals, including the complex sulphur compounds.

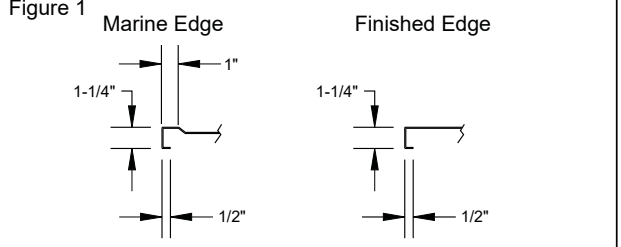
All Mott stainless steel laboratory furniture components are manufactured to a No.4 finish to deliver a smooth sanitary surface. This finish is widely used in laboratory applications where a uniform bright finish is required. The No.4 finish delivered by Mott Manufacturing is often slightly brighter than industry standard as the mesh finish is in the range of 120 to 150 resulting from the stainless steel sheets being polished with lubricating oil and abrasive belts with a 180 to 200 grit. No.4 finish samples are available from Mott or its dealers upon request.

Counter Tops

Counter tops can be designed to exactly match customer specifications and include features such as:

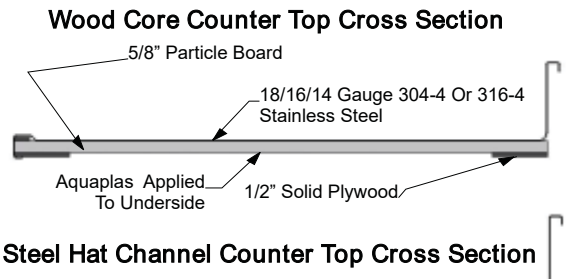
- Marine or finished edges (figure 1)
- Integral sinks in a wide variety of configurations
- Sloping drain boards

Figure 1



Standard construction includes either 304 or 316 stainless steel, backed by a 43 lb density particle board and plywood core (figure 2). Steel hat channel

Figure 2



construction is also available with 16 gauge type 304 stainless steel or satin coat finished stiffeners. Hat channel construction is recommended for long length counter tops that support heavy equipment or instruments (figure 2). All Mott counter tops have a sound deadening Aquaplas sealer applied to their underside.

All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

STAINLESS STEEL
CASEWORK CONSTRUCTION DETAILS AND SPECIFICATIONS

Overview

Cabinets

Standard cabinets are fabricated using prime quality furniture grade 304-4 stainless steel. (Optional 316-4 Stainless Steel is also available using option code -51.) All components are die formed, notched, keyed and tightly fitted to form a

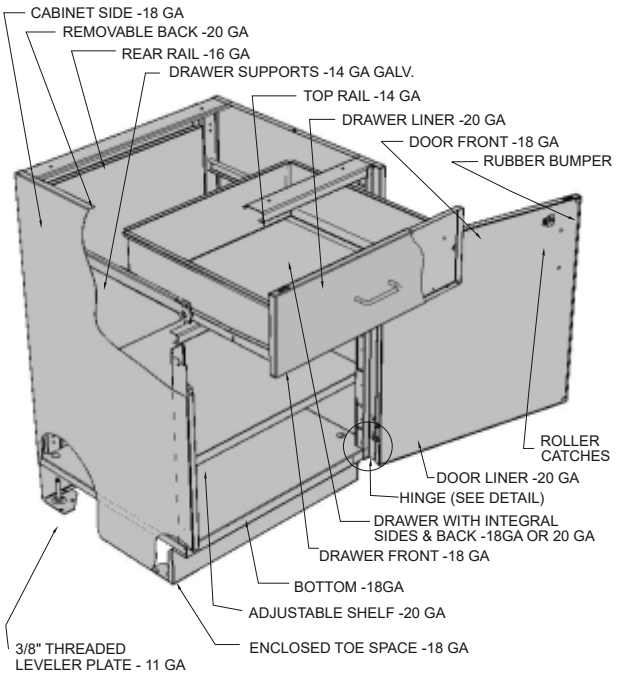
Stainless Steel Cabinet Gauges and Materials	
Drawer Bodies*, Shelves, Door and Drawer Liners, Removable Backs.	20 gauge 304-4 S/S
Cabinet Gables, Tops, Bottoms, Toekicks, Outer Door and Drawer Front Panels, Table Frames, Filler Panels, Sloping Tops.	18 gauge 304-4 S/S
Top and Intermediate Channels, Table Legs.	16 gauge 304-4 S/S
Drawer Suspension, Hinge Plates.	14 gauge 304-4 S/S
Cabinet Leveler Support	11 gauge 304-4 S/S
Five Knuckle Hinges (with s/s fasteners)	14 gauge 304-4 S/S
Door / Drawer Pulls	S/S Bar Pull
Door Roller Catch	Zinc Plated
3/8 Hex Head Leveler Bolts	Electro Plated
Drawer Roller Bearings	Zinc plated with Nylon rim
Full Extension Drawer Glides	Zinc plated
Shelf Clips	Zinc plated
Sliding Glass Doors Shoes & Tracks	Aluminum
Framed Glass Door lower Tracks	PVC
Cabinet Leveler Access Covers	PVC

Note: * 30” wide or larger drawers are 18 gauge, otherwise drawers are standard 20 gauge.

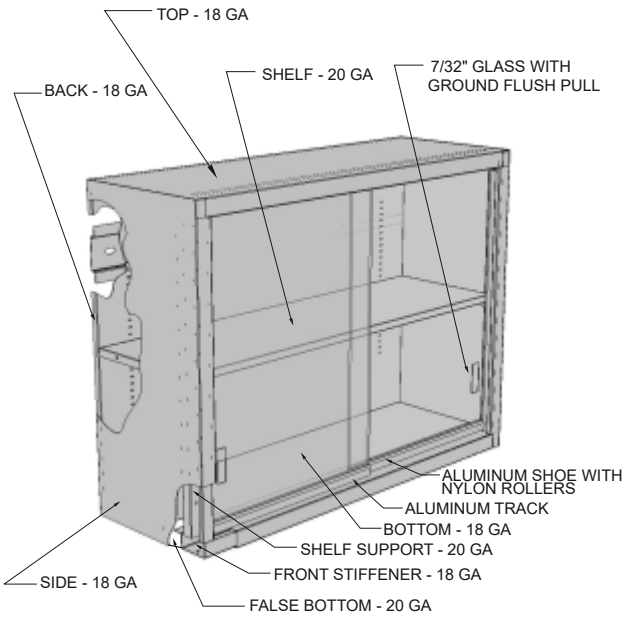
Finish

All cabinets surfaces are finished to a No.4 brush. All weld marks on the cabinet front and sides, exterior and interior of drawer / door heads have the color removed. All welds including the rear and interior of the cabinet, and outside of drawer housings are left natural.

BASE CABINET DETAIL



WALL CABINET DETAIL



All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

AIR STORAGE

110.04

BAUER COMPRESSORS
Quality. Our DNA

UN AND ASME STORAGE SYSTEMS

BAUER high pressure air storage systems meet the code requirements of both the United Nations Model Regulations and the American Society of Mechanical Engineers. Storage cylinders and storage systems are offered for 5000, 6000 and 7000 PSIG applications. Optional mounting racks are available.

EFFECTIVE: 01/01/20

› **PRESSURE:**
5000 PSIG (345 BAR)
6000 PSIG (414 BAR)
7000 PSIG (476 BAR)

› **CONFIGURATION:**
Vertical
Horizontal

› **STORAGE:**
Bulk
Bank



› UN STORAGE



› ASME STORAGE

UN AIR STORAGE SYSTEM

Model		Price
UN 5000 PSIG (345)		
CYL-0098	1 cylinder	$1,381.00
HC5000-1	1 cylinder	$1,550.00
HC5000-2	2 cylinders	$3,159.00
HC5000-3	3 cylinders	$4,767.00
HC5000-4	4 cylinders	$6,374.00
HC5000-5	5 cylinders	$7,984.00
HC5000-6	6 cylinders	$9,589.00
HC5000-7	7 cylinders	$11,198.00
HC5000-8	8 cylinders	$12,806.00
UN 6000 PSIG (414)		
CYL-0069	1 cylinder	$2,129.00
HC6000-1	1 cylinder	$2,243.00
HC6000-2	2 cylinders	$4,552.00
HC6000-3	3 cylinders	$6,858.00
HC6000-4	4 cylinders	$9,165.00
HC6000-5	5 cylinders	$11,471.00
HC6000-6	6 cylinders	$13,777.00
HC6000-7	7 cylinders	$16,084.00
HC6000-8	8 cylinders	$18,393.00
UN CYLINDER RACKS AND RACK ACCESSORIES		
HC5000-1/6000-1	Wall mount retainer	$161.00
	RCK-0037	$710.00
HC5000-2/6000-2	Wall mount retainer	$161.00
	RCK-0037	$710.00
HC5000-3/6000-3	Wall mount retainer	$209.00
	RCK-0037	$1,419.00
HC5000-4/6000-4	Wall mount retainer	$256.00
	RCK-0037	$1,419.00
HC5000-5/6000-5	Wall mount retainer	$306.00
	RCK-0037	$2,128.00
HC5000-6/6000-6	Wall mount retainer	$351.00
	RCK-0037	$2,129.00
HC5000-7/6000-7	Wall mount retainer	$401.00
	RCK-0037	$2,839.00
HC5000-8/6000-8	Wall mount retainer	$448.00
	RCK-0037	$2,839.00

UN PRESSURE RECEPTACLE (UNITED NATIONS MODEL REGULATIONS)

When ordering HC5000 and HC6000 cylinder assemblies please specify BULK or BANK by adding to the model name (i.e. HC5000-6/BULK or HC5000-6/ BANK). When ordering BANK assemblies please specify the number of vessels required in each BANK (i.e. HC6000-6/BANK/2-2-1-1). Cylinder prices do not include storage rack. UN 5000 psig cylinders, CYL-0068, are manufactured in accordance to ISO 9809-2 specification. CYL-0068 are equipped with cylinder valves that have a CGA-347 connection and pressure relief device. Approximate empty weight 158 lbs. UN 6000 psig cylinders, CYL-0069, are manufactured in accordance to ISO 9809-2 specification. CYL-0069 are equipped with manifold style cylinder valves with 1/4" NPT ports set 180 degrees apart. Approximate empty weight 188 lbs. The mandatory retest period is every ten (10) years.

The scope of supply for HC5000 cylinder assemblies includes as many CYL-0068 as specified by the model name. The scope of supply for HC6000 cylinder assemblies includes as many CYL-0069 as specified by the model name. BULK assemblies will be equipped with an inlet fitting, check valve, pressure gauge, and outlet fitting. BANK assemblies are designed to be used with a BAUER four bank cascade panel. Gauges are not included as they are on the cascade panel. The inlet and outlet are common fitting as there is no check valve. Our standard scope of supply includes 1/4" hose connectors for HC5000 and HC6000 assemblies. When interconnecting pigtails are necessary, we supply stainless steel instead of our flexible hose. UN wall retainer includes unistrut channel and cylinder clamp set for each cylinder. We start with the UN-2 for two cylinders. Change

the model name to reflect the number cylinder positions required (i.e. UN-3, UN-4). Mounting hardware for installation is not included. RCK-0037 is heavy-duty, two-position, welded steel rack designed for horizontal or vertical cylinder configuration for stationary or mobile applications. Please specify configuration at time of order placement. Hardware for installation is not included. RCK-0037 weighs approximately 130 lbs. For storage assemblies installed in RCK-0037, reference BAUER drawing ASY-0758 for horizontal assemblies and ASY-0759 for vertical assemblies. All components are shipped loose unless purchased factory installed in RCK-0037. Installation, assembly and interconnecting piping to an existing system are the responsibility of the installer.

ASME AIR STORAGE SYSTEM

Model		Price
ASME 5000 PSIG (345)		
CYL-0009	1 cylinder	$2,678.00
ASME5K-1	1 cylinder	$3,566.00
ASME5K-2	2 cylinders	$7,211.00
ASME5K-3	3 cylinders	$10,856.00
ASME5K-4	4 cylinders	$14,502.00
ASME5K-5	5 cylinders	$18,147.00
ASME5K-6	6 cylinders	$21,793.00
ASME5K-7	7 cylinders	$25,435.00
ASME5K-8	8 cylinders	$29,081.00
ASME 6000 PSIG (414)		
CYL-0009	1 cylinder	$2,977.00
ASME6K-1	1 cylinder	$3,732.00
ASME6K-2	2 cylinders	$7,434.00
ASME6K-3	3 cylinders	$11,352.00
ASME6K-4	4 cylinders	$15,164.00
ASME6K-5	5 cylinders	$18,975.00
ASME6K-6	6 cylinders	$22,786.00
ASME6K-7	7 cylinders	$26,595.00
ASME6K-8	8 cylinders	$30,405.00
ASME CYLINDER RACKS		
ASME5K-1/ASME6K-1	RCK-0037	$710.00
ASME5K-2/ASME6K-2	RCK-0037	$710.00
ASME5K-3/ASME6K-3	RCK-0037	$1,419.00
ASME5K-4/ASME6K-4	RCK-0037	$1,419.00
ASME5K-5/ASME6K-5	RCK-0037	$2,129.00
ASME5K-6/ASME6K-6	RCK-0037	$2,129.00
ASME5K-7/ASME6K-7	RCK-0037	$2,839.00
ASME5K-8/ASME6K-8	RCK-0037	$2,839.00

ASME (AMERICAN SOCIETY MECHANICAL ENGINEERS)

When ordering ASME5K and ASME6K assemblies please specify BULK or BANK by adding to the model name (i.e. ASME5K-6/BULK or ASME5K-6/BANK). When ordering BANK assemblies please specify the number of vessels required in each BANK (i.e. ASME5K-6/BANK/2-2-1-1). Cylinder prices do not include storage rack.
ASME cylinders conform to the ASME Code Section VIII, Division 1 Latest Edition and are for non-corrosive service. ASME cylinders have a 3 to 1 (3:1) safety factor at 6000 psig and a 4 to 1 (4:1) safety factor at 5000 psig. The scope of supply for ASME5K and ASME6K cylinder assemblies includes as many CYL-0009 as specified by the model name. In addition, we will provide an ASME safety relief valve, cylinder valve and drain valve for each cylinder. BULK assemblies will be equipped with an inlet fitting, check valve, pressure gauge, and outlet fitting. BANK assemblies are designed to be used with a BAUER four bank cascade panel. Gauges are not included as they are on the cascade panel. The inlet and outlet are common fitting as there is no check valve. Our standard scope of supply includes 1/4" hose connectors for ASME5K and ASME6K assemblies. When interconnecting pigtails are necessary, we supply stainless steel instead of flexible hose. RCK-0037 is a heavy-duty, two-position, welded steel rack designed for horizontal or vertical cylinder configuration for stationary or mobile applications. Please specify configuration at time of order placement. Hardware for installation is not included. RCK-0037 weighs approximately 130 lbs. For storage assemblies installed in RCK-0037, reference BAUER drawing ASY-0758 for horizontal assemblies and ASY-0759 for vertical assemblies. Installation, assembly and interconnecting piping to an existing system are the responsibility of the installer.

Room
118
Work Room

Deluxe Workstation Starter Table - 96 x 36", Maple Top

118.02



More Images & Video

Customize your workstation for efficient assembly and repairs.

- Select a starter table and add on accessories.
- Includes table, full-depth bottom shelf, storage drawer and uprights.
- 1 3/4" thick maple top with rounded edges.
- Table height adjusts from 30-37" in 1 1/2" increments. 500 lb. capacity.
- Full-depth bottom shelf for extra storage. 250 lb. capacity.
- Workstation Accessories and Replacement Top available.

MODEL NO.	DESCRIPTION	DIMENSIONS L x W	ADJUSTABLE HEIGHT	CAPACITY (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	TOP STYLE	IN STOCK SHIPS TODAY
H-5771-MAP	Starter Table	96 x 36"	30-37"	500	346	$1,175	$1,140	Maple	1 ADD

With rounded edge

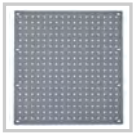
SHIPS UNASSEMBLED VIA MOTOR FREIGHT

Additional Info | Parts/Accessories | Shopping Lists | Request a Catalog

RELATED ITEMS



Deluxe Workstation Shelf - 96"



Deluxe Workstation Pegboard Panel - 18 x 19"



Deluxe Workstation LED Light Kit - 96"

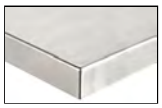
DELUXE WORKSTATIONS



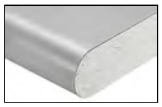

Composite Wood


Steel


Maple


Stainless Steel


ESD


Laminate

ACCESSORIES


Shelves and Dividers


Bin Rails


Panels


LED Light Kits


Tabletop Power Strips


Leg Outlet


Storage Cabinet


Monitor Arm



Workbench Mats



Side and Back Ledges



Replacement Tops



Workstation Fan



Casters



Drawers

Deluxe Workstation Starter Table - 72 x 36", Maple Top



More Images & Video

Customize your workstation for efficient assembly and repairs.

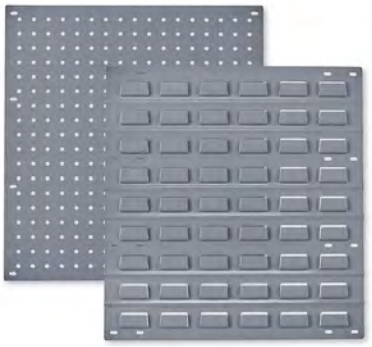
- Select a starter table and add on accessories.
- Includes table, full depth bottom shelf, drawer and uprights.
- Table height adjusts from 30-37". 500 lb. capacity.
- Deluxe Workstation Accessories and Replacement Tops available.

MODEL NO.	DESCRIPTION	DIMENSIONS L x W	PRICE EACH 1	PRICE EACH 2+	TOP STYLE	IN STOCK SHIPS TODAY
H-5770-MAP	Starter Table	72 x 36"	$910	$875	Maple	1 ADD

With rounded edge

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

Additional Info Parts Shopping Lists Request a Catalog



DELUXE WORKSTATION PANELS

Customize your workstation for efficient assembly and repairs.

- 14 gauge steel.
- Mounting hardware included with starter table.

DELUXE WORKSTATION PANELS

MODEL NO.	DESCRIPTION	DIMENSIONS W x H	PRICE EACH	ADD TO CART
H-5767	Louvered Pegboard	18 x 19"	$24	1 ADD
H-5768				1 ADD

48" table holds 2 panels. 60" and 72" tables hold 3 panels. 96" holds 4 panels.

ADVANCE TABCO
SMART FABRICATION™

STAINLESS STEEL

SPECLINE 14 Ga. Fabricated Sinks

118.03

Single Compartment

NSF





Item #: _____ ***Qty #:*** _____

Model #: _____

Project #: _____

FEATURES:

Full Skirt Design

Backsplash has tile edge for ease of installation.

Sink bowls are 3/4" coved corner and meet NSF requirements.

Rolled Rim Edge for additional strength.

Sink Bowls are 14" deep for greater capacity.

Stainless Steel Legs and Cross Bracing.

CONSTRUCTION:

All TIG welded.

Welded areas blended to match adjacent surfaces and to a satin finish.

MATERIAL:

1 5/8" diameter stainless steel legs with 1" adjustable stainless steel bullet feet.

Entire unit is 14 gauge 304 stainless steel.

Stainless Steel Gussets.

MECHANICAL:

- Supply is 1/2" IPS hot & cold.
- Faucet holes on 8" centers.
- Faucets are not included **(see accessories)**.
- Waste drains are 1 1/2" IPS S/S basket type, located in center of sink bowl, and are included.

MODEL #	BOWL SIZE	O.A. Length	# of Drbds.
FS-1-1818	18" x 18"	23"	0
FS-1-1818-18RorL	18" x 18"	38 1/2"	1
FS-1-1824	18" x 24"	23"	0
FS-1-1824-18R or L	18" x 24"	38.5"	1
FS-1-1824-24R or L	18" x 24"	44.5"	1
FS-1-1824-18RL	18" x 24"	54"	2
FS-1-1824-24RL	18" x 24"	66"	2
FS-1-2024	20" x 24"	25"	0
FS-1-2424	24" x 24"	29"	0
FS-1-2424-18R or L	24" x 24"	44.5"	1
FS-1-2424-24R or L	24" x 24"	50.5"	1
FS-1-2424-18RL	24" x 24"	60"	2
FS-1-2424-24RL	24" x 24"	72"	2
FS-1-3024	30" x 24"	35"	0
FS-1-3024-24R or L	30" x 24"	56.5"	1
FS-1-3024-24RL	30" x 24"	78"	2
FS-1-3624	36" x 24"	41"	0
FS-1-3624-24R or L	36" x 24"	62.5"	1
FS-1-3624-24RL	36" x 24"	84"	2

ACCESSORIES	Model #	Qty
DRAINS		
FAUCETS		

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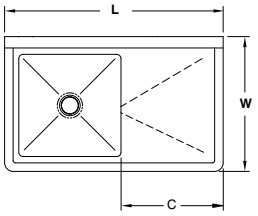
TEXAS Fax: (972) 932-4795

NEVADA Fax: (775) 972-1578

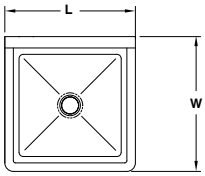
DIMENSIONS and SPECIFICATIONS

TOL Overall: ± .500" Interior: ± .250"

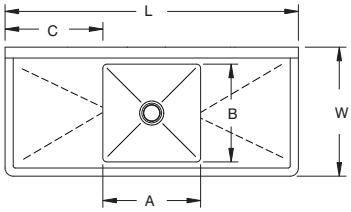
ALL DIMENSIONS ARE TYPICAL



1 COMP - 1 DRBD



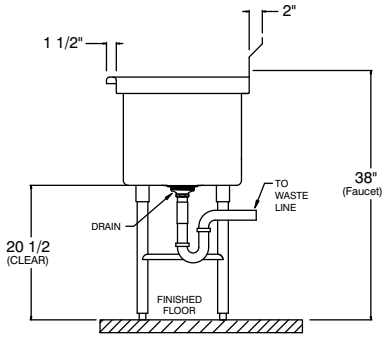
1 COMP



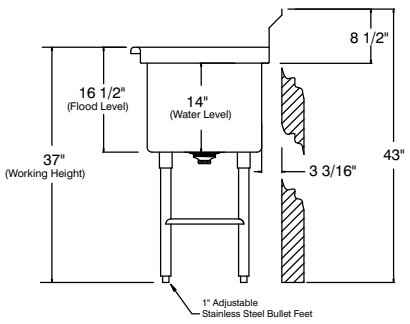
1 COMP - 2 DRBDS

MODEL #	Length L	Width W	Bowl Size A & B	Drbd. Length C	# of Drbds.	Drbd. Location	Wt	Cu.
FS-1-1818	23"	23.5"	18" x 18"	N/A	0	None	60 lbs	11
FS-1-1818-18RorL	38.5"	23.5"	18" x 18"	18"	1	Specify	75 lbs.	17
FS-1-1824	23"	29.5"	18" x 24"	N/A	0	None	78 lbs	16
FS-1-1824-18R or L	38.5"	29.5"	18" x 24"	18"	1	Specify	92 lbs	25
FS-1-1824-24R or L	44.5"	29.5"	18" x 24"	24"	1	Specify	105 lbs	28
FS-1-1824-18RL	54"	29.5"	18" x 24"	18"	2	Both	175 lbs	34
FS-1-1824-24RL	66"	29.5"	18" x 24"	24"	2	Both	198 lbs	40
FS-1-2024	25"	29.5"	20" x 24"	0	0	None	75 lbs	16
FS-1-2424	29"	29.5"	24" x 24"	N/A	0	None	90 lbs	19
FS-1-2424-18R or L	44.5"	29.5"	24" x 24"	18"	1	Specify	110 lbs	28
FS-1-2424-24R or L	50.5"	29.5"	24" x 24"	24"	1	Specify	119 lbs	34
FS-1-2424-18RL	60"	29.5"	24" x 24"	18"	2	Both	185 lbs	37
FS-1-2424-24RL	72"	29.5"	24" x 24"	24"	2	Both	209 lbs	44
FS-1-3024	35"	29.5"	30" x 24"	0	0	None	115 lbs	23
FS-1-3024-24R or L	56.5"	29.5"	30" x 24"	24"	1	Specify	132 lbs	35
FS-1-3024-24RL	78"	29.5"	30" x 24"	24"	2	Both	150 lbs	47
FS-1-3624	41"	29.5"	36" x 24"	0	0	None	125 lbs	26
FS-1-3624-24R or L	62.5"	29.5"	36" x 24"	24"	1	Specify	143 lbs	39
FS-1-3624-24RL	84"	29.5"	36" x 24"	24"	2	Both	165 lbs	51

PLUMBING ROUGH-IN



SECTION



ADVANCE TABCO
SMART FABRICATION

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

200 Heartland Boulevard, Edgewood, NY 11717-8380

© ADVANCE TABCO, NOVEMBER 2013

SPLASH MOUNTED FAUCETS

Splash Mount Swivel Gooseneck

Single Hole



K-121

AC/DC powered Hands-Free Gooseneck

AC & Battery Operated!



K-175 Single Hole

3-1/2" Gooseneck

4" O.C.



K-59

HEAVY DUTY Gooseneck

4" O.C.



K-69

6" Extended Spout

4" O.C.



K-123

6" Extended Spout with Wrist Handles

4" O.C.



K-206

12" Swing Spout

8" O.C.



K-1

14" Swing Spout

8" O.C.



K-11

8" Swing Spout

8" O.C.



K-101

HEAVY DUTY 14" Swing Spout

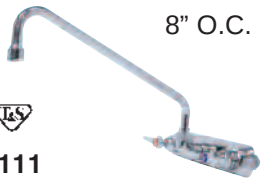
8" O.C.



K-105

HEAVY DUTY 14" Swing Spout (T&S)

8" O.C.



K-111

HEAVY DUTY 12" Swing Spout (T&S)

8" O.C.



K-112

16" Swing Spout

8" O.C.



K-119

3-1/2" Gooseneck Spout

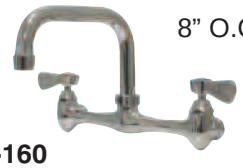
8" O.C.



K-159

6" D-Style Extended Spout

8" O.C.



K-160

HEAVY DUTY Extra Long Faucet



K-211

HEAVY DUTY Pre-Rinse Faucet

DTA-53

K-114 Replacement Spray Head & Handle



HEAVY DUTY Pre-Rinse Faucet (T&S)

K-116

K-114 Replacement Spray Head & Handle



12" Swing Spout Add-A-Faucet



K-117

Service Faucet

Does not meet Federal Lead Free Standards as it is not intended for potable water.



K-240

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SPLASH MOUNTED FAUCETS ACCESSORIES

Eye Wash Attachment*



K-170

Wrist handle Gooseneck



Wrist Handles Only



K-316 K-316-LU

Hands-Free Wand





K-400

Low Flow Aerator



K-08

Repair Kit For K-1, K-11, K-101, K-112, K-119 & K-211

Repair Kit can only be used on faucets purchased after 12/03



K-00

Faucet Wall Mounting Bracket



K-30

Faucet Mounting Kit K-1, K-11, K-101, K-105, K-112, K-119 & K-211



K-06

***IMPORTANT:** Faucet-mounted eyewashes require two motions to operate (turn on water, pull knob to activate eyewash flow). Therefore, **Advance Tabco does not believe that these units meet the provisions of ANSI Z358.1-2004 as eyewash units**. These units are intended solely as supplemental units in addition to dedicated, plumbed eyewash equipment installed in the workplace.

Faucet-mounted eyewashes should be used with cold or warm water only. Use of hot water might cause scalding. Eyewash Faucets not to be used with Electronic Faucets.

MODEL #	Description	A LENGTH	B HEIGHT	C	D	On Center Dimensions
K-00	Repair Kit For K-1, K-11, K-101, K-119 & 211	N/A	N/A	N/A	N/A	N/A
K-06	Faucet Mt. Kit for K-1, K-11, K-101, K-119 & K-211	N/A	N/A	N/A	N/A	N/A
K-1	12" Swing Spout Faucet	12"	5"	2 1/2"	14"	8" O.C.
K-11	14" Swing Spout Faucet	14"	5 1/2"	3"	16"	8" O.C.
K-59	3 1/2" Gooseneck Faucet	3 1/2"	8"	5"	6"	4" O.C.
K-60	3 1/2" Gooseneck Faucet	3 1/2"	8 1/4"	5 1/2"	4 1/2"	4" O.C.
K-69	Heavy Duty Gooseneck Faucet	3"	5"	2 3/4"	5 1/2"	4" O.C.
K-101	8" Swing Spout Faucet	8"	4 1/4"	2 1/4"	10"	8" O.C.
K-105	Heavy Duty 14" Swing Spout Faucet	14"	5"	3"	16"	8" O.C.
K-111	Heavy Duty 14" Swing Spout (T&S) Faucet	14"	8 1/4"	5 1/2"	16 1/2"	8" O.C.
K-112	Heavy Duty 12" Swing Spout Faucet	12"	5"	3"	14"	8" O.C.
K-116	Heavy Duty Pre-Rinse (T&S) Faucet	13"	34 1/2"	13 1/2"	15 3/8"	8" O.C.
K-117	Add-A-Faucet with 12" Spout Faucet	12"	N/A	N/A	N/A	N/A
K-119	16" Swing Spout Faucet	16"	6"	4"	18 1/2"	8" O.C.
K-121	Splash Mount Swivel Gooseneck Faucet	3 1/2"	8"	5 1/2"	5 3/4"	Single Hole
K-123	6" Extended Spout Faucet	6"	5"	2 1/2"	8"	4" O.C.
K-159	3 1/2" Spout Faucet	3 1/2"	8"	5"	6"	8" O.C.
K-160	6" Extended Spout Faucet	6"	5"	4"	8"	8" O.C.
K-170	Eye Wash Attachment (See Above Detail)	N/A	N/A	N/A	N/A	N/A
K-175	Hands Free AC/DC Operated Faucet 6' Cord. INPUT: 100-240VAC 47-6Hz. < 1 Amp Draw. UL LISTED	4 1/2"	7"	3 3/4"	5 1/2"	Single Hole
K-206	6" Extended Spout Faucet with Wrist Handles	6"	5"	2 1/2"	8"	4" O.C.
K-211	Heavy Duty Extra Long Spout Faucet	18"	7 3/4"	5"	21"	8" O.C.
K-240*	Service Faucet	6 1/2"	2 1/2"	1 3/8"	9"	8" O.C.
K-316	Wrist Handle Gooseneck Faucet	3 1/2"	8"	5"	6"	4" O.C.
K-400	Hands Free Wand	N/A	N/A	N/A	N/A	N/A
DTA-53	Heavy Duty Pre-Rinse Faucet	15"	34"	5"	15"	8" O.C.

*** Does not meet Federal Lead Free Standards as it is not intended for potable water.**

N/A = Not Applicable To Faucet

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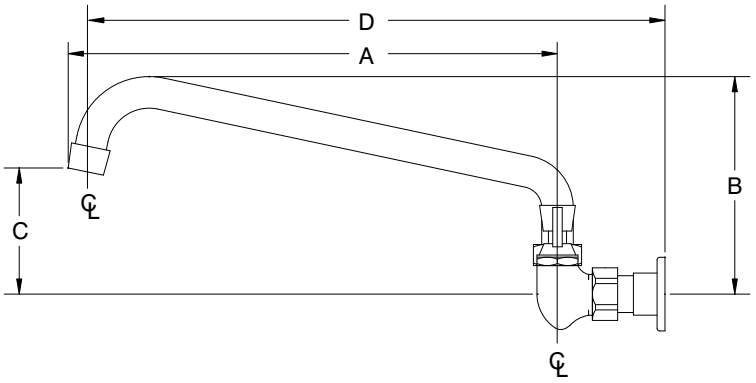
DIMENSIONS and SPECIFICATIONS

TOL ± .125”

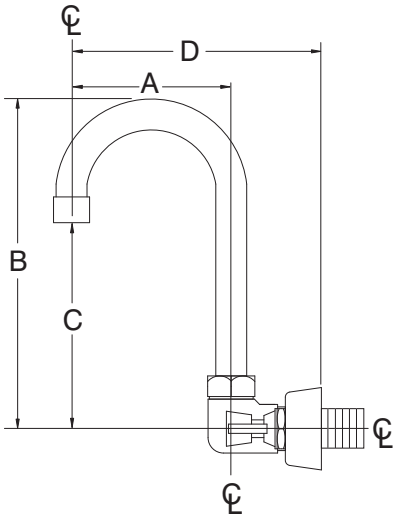
ALL DIMENSIONS ARE TYPICAL

SPLASH MOUNTED FAUCETS

Swing Spout Faucet



Gooseneck Faucet



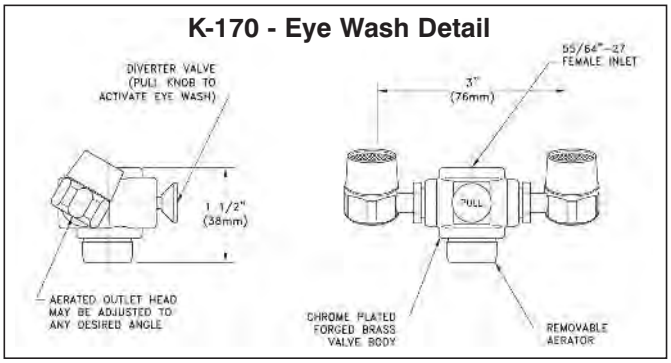
All Faucets That Meet 2014 Federal Lead Free Standards (*Excludes K-240 Service Faucets)

For Replacement Faucets & Upgrades, Drains & Accessories visit our website at www.advancetabco.com

ALL FAUCET AERATORS CONFORM TO ASTM.A112.18.1M
2.0 GPM/7.56 LPM
THREAD: 55/64 - 27 FEMALE

K-240 SERVICE FAUCET
9.6 GPM/36.3 LPM
3/4” HOSE END SPOUT

K-170 - Eye Wash Detail



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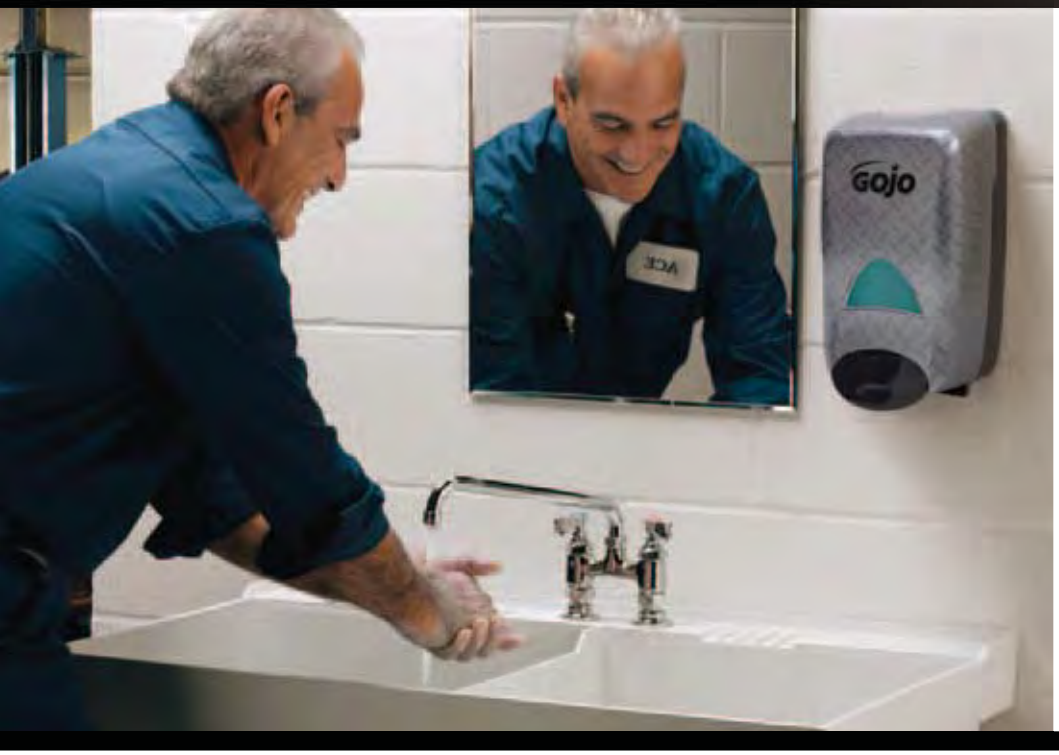
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GOJO®

Dispensing systems
so *curiously cool*...

People *can't wait* to use them!



And, naturally, the more people use them, the more likely they are to *keep their hands clean and healthy*. That can translate into:

- **Less skin disease**
- **Less spreading of illness-causing germs**
- **Less absenteeism**… which can have a profound impact on the bottom line of your business!

Dirty hands are the **pickpockets** of an otherwise healthy business.



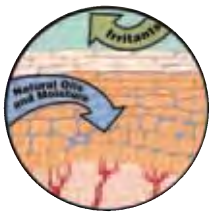
Skin disease is the leading cause of occupational illness.[1] Direct medical expenses for contact dermatitis alone are **more than $1.4 billion**. And productivity losses are estimated to **add another $500 million** on top of that.[2] When your employees suffer with skin disease, your business winds up paying the price a number of ways:

- Lost work time and absenteeism
- Lower productivity and efficiency
- Unskilled temporary labor & overtime
- Higher insurance premiums and Worker's Compensation costs

Maintaining skin's natural protectiveness.



Dry, damaged skin isn't just a cosmetic issue. It's a symptom indicating that the skin's natural protective barrier has been compromised. This permits natural oils and moisture to escape and lets outside irritants in, possibly entering the bloodstream and leading to infection.



Heathy, well-conditioned skin retains more moisture and is less likely to absorb and react to incidental exposure to irritants. Our strategy is to use the mildest, most effective hand cleaner for each application, maintaining as much of the skin's natural barrier function as possible.

It's a DIRTY JOB, but someone has to do it.

Since all dirt is *not* created equal, you need options.



KIND OF DIRTY?

Get GOJO® DPX™.

With continued advancements in technology and processes, work environments are getting cleaner. But when hands do get dirty, workers want to remove light and medium soils without using overly aggressive solvents and abrasives. **Now they can.** With GOJO ECO SOY™ Foaming Hand Cleaner in the cool new DPX dispenser. The grit-free foaming action gently releases dirt and moderate soils from skin.

GOJO DPX Foam Soap Dispenser with GOJO ECO SOY Foaming Hand Cleaner

- Ideal for distribution, warehouse, labs, restrooms, and production areas
- Diamond-plate dispenser design connects with workers
- Cleaning powered by soy, a renewable, natural resource
- Invigorating fresh scent



REALLY DIRTY?

Get GOJO PRO™ TDX™.

Hands that get really dirty need an effective cleaner that won't tear up the skin. Like GOJO Cherry Gel Pumice Hand Cleaner in the upgraded PRO TDX dispenser. Gel-style hand cleaner quickly cleans heavy dirt, grease and oil. The advanced gel technology encapsulates pumice scrubbers and contains skin conditioners for a unique pH-balanced wash experience that leaves skin clean and feeling refreshed.

GOJO PRO TDX 2000 Dispenser with GOJO Cherry Gel Pumice Hand Cleaner

- Ideal for locker rooms, production, tool crib/rooms, clean-up sinks, maintenance areas
- Modern design with diamond-plate effect looks great in tough soils environments
- Gel formula clings to hands for easy cleaning
- Pleasant cherry fragrance eliminates soil odors without any lingering scent.





Healthy hands for the lives you touch.

GOJO®, the #1 brand of heavy duty hand cleaner.[3]

Description	Size	Order No.	Use Dispenser
PRO™ TDX™ 5000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	5000 mL	7590-02	7500-01
PRO TDX 2000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	2000 mL	7290-04	7200-01
GOJO Cherry Gel Pumice Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	7290-D2	—
GOJO DPX™ Foam Soap System			
GOJO ECO SOY™ Foaming Hand Cleaner Refill	2000 mL	5268-03	5254-06
GOJO ECO SOY Foaming Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	5268-D2	—

www.GOJO.com

For more information on our complete line of skin care products for soil removal, general cleansing, skin conditioning and sanitizing, visit www.GOJO.com or contact GOJO Customer Service at 1-800-321-9647.

1. Bureau of Labor Statistics, U.S. Department of Labor, December 2004.
2. The Lewin Group, Inc. 2005. The Burden of Skin Diseases. Prepared for The Society for Investigative Dermatology and The Academy of Dermatology Association.
3. Results based on Feb/March 2010 survey, administered by a third party where GOJO was not identified as sponsor of the research. Survey of 500 employees in U.S. and Canada in industries where tough soils are encountered. Survey respondents mentioned GOJO more than any other hand cleaner brand in unaided awareness.

Visit our website: www.GOJO.com

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LIT-TS-SYS (05/2011)

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HEAVY-DUTY STEEL SHELVING

Highest capacity storage for motors, dies and heavy machine parts. Up to 2 tons per shelf!

- **Boltless assembly**. Shelves snap into place and adjust at 1 1/2" increments.
- Four-way access for easy loading and unloading.
- 14-gauge steel posts; 16-gauge steel shelves.
- Tough, powder-coat finish.
- Made in USA.

ADDITIONAL SHELVES

- Add extra shelves to maximize storage space.
- Boltless design for easy assembly.



72" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-3911	36 x 18 x 72"	5	5	4,000	143	$465	$450	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4857	36 x 24 x 72"				172	560	540	1 ADD	H-4857-ADD	111	107	1 ADD
H-3912	48 x 18 x 72"				178	565	545	1 ADD	H-3912-ADD	114	111	1 ADD
H-3913	48 x 24 x 72"	5	5	3,250	212	655	635	1 ADD	H-3913-ADD	132	127	1 ADD
H-7048	48 x 36 x 72"				281	935	905	1 ADD	H-7048-ADD	200	195	1 ADD
H-4862	60 x 24 x 72"				263	795	770	1 ADD	H-4862-ADD	178	173	1 ADD
H-5444	60 x 36 x 72"				327	985	955	1 ADD	H-5444-ADD	218	213	1 ADD
H-5445	72 x 18 x 72"	5	10	2,750	265	815	790	1 ADD	H-5445-ADD	185	179	1 ADD
H-3914	72 x 24 x 72"				295	890	860	1 ADD	H-3914-ADD	195	191	1 ADD
H-3915	72 x 36 x 72"				337	1,160	1,120	1 ADD	H-3915-ADD	271	262	1 ADD
H-7432	96 x 24 x 72"	5	15	2,600	472	1,445	1,400	1 ADD	H-7432-ADD	326	318	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

84" HEAVY-DUTY STEEL SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	ADD TO CART	MODEL NO.	ADDITIONAL SHELVES PRICE EACH 1	ADDITIONAL SHELVES PRICE EACH 2+	ADDITIONAL SHELVES ADD TO CART
H-3120	36 x 18 x 84"	5	5	4,000	148	$475	$460	1 ADD	H-3911-ADD	$95	$92	1 ADD
H-4858	36 x 24 x 84"				177	570	550	1 ADD	H-4857-ADD	111	107	1 ADD
H-3121	48 x 18 x 84"				183	575	555	1 ADD	H-3912-ADD	114	111	1 ADD
H-3122	48 x 24 x 84"	5	5	3,250	217	665	645	1 ADD	H-3913-ADD	132	127	1 ADD
H-7049	48 x 36 x 84"				286	945	915	1 ADD	H-7048-ADD	200	195	1 ADD
H-4863	60 x 24 x 84"				268	805	780	1 ADD	H-4862-ADD	178	173	1 ADD
H-5446	60 x 36 x 84"				332	995	965	1 ADD	H-5444-ADD	218	213	1 ADD

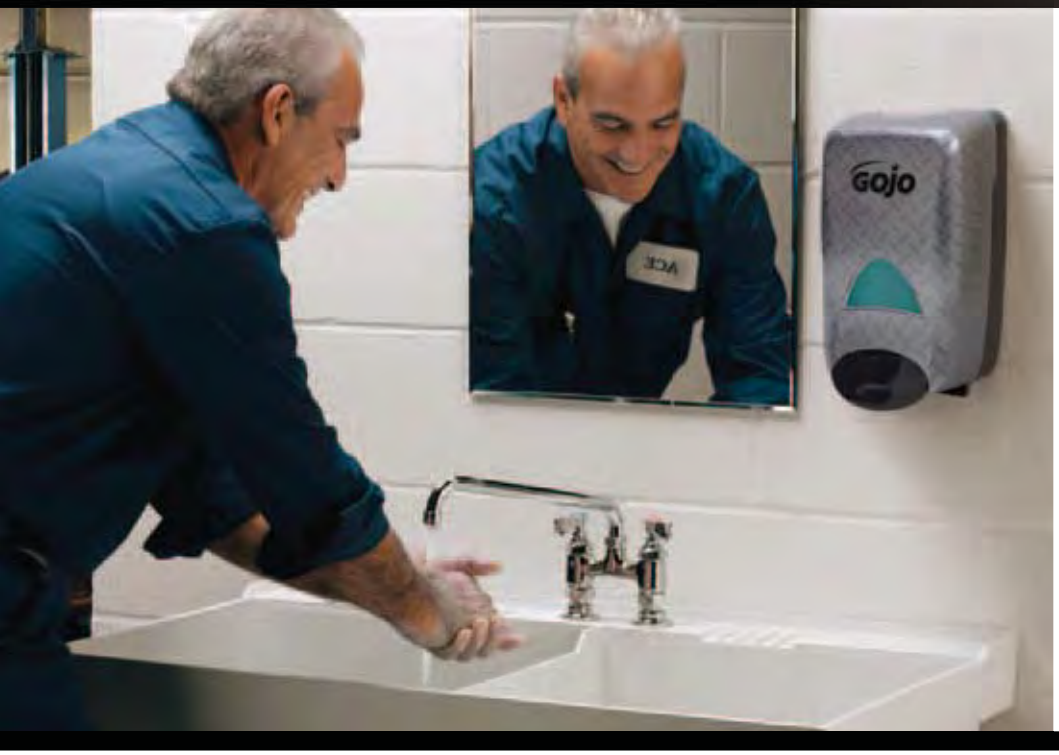
Room
119
Decon



GOJO®

Dispensing systems
so ***curiously cool***…

People *can't wait* to use them!



And, naturally, the more people use them, the more likely they are to *keep their hands clean and healthy*. That can translate into:

- **Less skin disease**
- **Less spreading of illness-causing germs**
- **Less absenteeism**… which can have a profound impact on the bottom line of your business!

Dirty hands are the **pickpockets** of an otherwise healthy business.



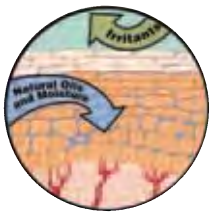
Skin disease is the leading cause of occupational illness.[1] Direct medical expenses for contact dermatitis alone are **more than $1.4 billion**. And productivity losses are estimated to **add another $500 million** on top of that.[2] When your employees suffer with skin disease, your business winds up paying the price a number of ways:

- Lost work time and absenteeism
- Lower productivity and efficiency
- Unskilled temporary labor & overtime
- Higher insurance premiums and Worker's Compensation costs

Maintaining skin's natural protectiveness.



Dry, damaged skin isn't just a cosmetic issue. It's a symptom indicating that the skin's natural protective barrier has been compromised. This permits natural oils and moisture to escape and lets outside irritants in, possibly entering the bloodstream and leading to infection.



Heathy, well-conditioned skin retains more moisture and is less likely to absorb and react to incidental exposure to irritants. Our strategy is to use the mildest, most effective hand cleaner for each application, maintaining as much of the skin's natural barrier function as possible.

It's a DIRTY JOB, but someone has to do it.

Since all dirt is *not* created equal, you need options.



KIND OF DIRTY?

Get GOJO® DPX™.

With continued advancements in technology and processes, work environments are getting cleaner. But when hands do get dirty, workers want to remove light and medium soils without using overly aggressive solvents and abrasives. **Now they can.** With GOJO ECO SOY™ Foaming Hand Cleaner in the cool new DPX dispenser. The grit-free foaming action gently releases dirt and moderate soils from skin.

GOJO DPX Foam Soap Dispenser with GOJO ECO SOY Foaming Hand Cleaner

- Ideal for distribution, warehouse, labs, restrooms, and production areas
- Diamond-plate dispenser design connects with workers
- Cleaning powered by soy, a renewable, natural resource
- Invigorating fresh scent



REALLY DIRTY?

Get GOJO PRO™ TDX™.

Hands that get really dirty need an effective cleaner that won't tear up the skin. Like GOJO Cherry Gel Pumice Hand Cleaner in the upgraded PRO TDX dispenser. Gel-style hand cleaner quickly cleans heavy dirt, grease and oil. The advanced gel technology encapsulates pumice scrubbers and contains skin conditioners for a unique pH-balanced wash experience that leaves skin clean and feeling refreshed.

GOJO PRO TDX 2000 Dispenser with GOJO Cherry Gel Pumice Hand Cleaner

- Ideal for locker rooms, production, tool crib/rooms, clean-up sinks, maintenance areas
- Modern design with diamond-plate effect looks great in tough soils environments
- Gel formula clings to hands for easy cleaning
- Pleasant cherry fragrance eliminates soil odors without any lingering scent.





Healthy hands for the lives you touch.

GOJO®, the #1 brand of heavy duty hand cleaner.[3]

Description	Size	Order No.	Use Dispenser
PRO™ TDX™ 5000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	5000 mL	7590-02	7500-01
PRO TDX 2000 System			
GOJO Cherry Gel Pumice Hand Cleaner Refill	2000 mL	7290-04	7200-01
GOJO Cherry Gel Pumice Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	7290-D2	—
GOJO DPX™ Foam Soap System			
GOJO ECO SOY™ Foaming Hand Cleaner Refill	2000 mL	5268-03	5254-06
GOJO ECO SOY Foaming Hand Cleaner Starter Kit *(1 Dispenser / 1 Refill)*	2000 mL	5268-D2	—

www.GOJO.com

For more information on our complete line of skin care products for soil removal, general cleansing, skin conditioning and sanitizing, visit www.GOJO.com or contact GOJO Customer Service at 1-800-321-9647.

1. Bureau of Labor Statistics, U.S. Department of Labor, December 2004.
2. The Lewin Group, Inc. 2005. The Burden of Skin Diseases. Prepared for The Society for Investigative Dermatology and The Academy of Dermatology Association.
3. Results based on Feb/March 2010 survey, administered by a third party where GOJO was not identified as sponsor of the research. Survey of 500 employees in U.S. and Canada in industries where tough soils are encountered. Survey respondents mentioned GOJO more than any other hand cleaner brand in unaided awareness.

Visit our website: www.GOJO.com

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LIT-TS-SYS (05/2011)

Heavy-Duty Steel Shelving - 48 x 24 x 72"



Enlarge & Video

Highest capacity storage for motors, dies and heavy machine parts. Up to 3,250 lbs. per shelf!

- **Boltless assembly**. Shelves snap into place and adjust at 1 1/2" increments.
- Four-way access for easy loading and unloading.
- 14-gauge steel posts; 16-gauge steel shelves.
- Tough, powder-coat finish.
- Made in USA.



MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	IN STOCK SHIPS TODAY
H-3913	48 x 24 x 72"	5	5	3,250	212	$655	$635	1 ADD

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

Additional Info | Parts | Shopping Lists | Request a Catalog

DIMENSIONS:
- Outside Width & Depth: Add 5/8" to listed dimensions.
- Shelf Height: 2 11/16"

CAPACITY:
- Shelf capacity in the chart is based on evenly distributed loads.
- Overall: Not to exceed 13,000 lbs

USAGE:
- For hand-loading only. (Not for use with forklifts.)

CONSTRUCTION:
- Double rivet beam connection for strength and rigidity.

Availability: In Stock
Unit Weight: 212 lbs.

Instructions

Parts Diagram

Catalog Page 483

Email Item

Country of Origin: USA

Comparable to NSN
7125-00-558-0011

RELATED ITEMS

ADVANCE TABCO
SMART FABRICATION™

STAINLESS STEEL

REGALINE SINKS

Two Compartment - Two Drainboards



"940" Series shown

NSF

Item #: _____ ***Qty #:*** _____

Model #: _____

Project #: _____

FEATURES:

Tile edge for ease of installation.

One piece **Deep Drawn** sink bowls with integral drainboards with splash.

Featuring the single bowl unit design.

All sink bowls have a large liberal 3" radius.

Placement of the welded leg assembly ensures stability and furnishes direct support of the column load requirement for the entire sink unit.

"940" series is supplied with front and rear cross brace.

CONSTRUCTION:

All TIG welded.

Welded areas blended to match adjacent surfaces and to a satin finish.

Gussets welded to a die-embossed reinforcing channel.

Spec-Line: **940 Series -** 11" High Splash.
Standard: **930 Series -** 8" Splash.
Super Saver: **900 Series -** 8" Splash.

MATERIAL:

940 Series: 14 gauge type 304 stainless steel.
930 Series: 16 gauge type 304 stainless steel.
900 Series: 18 gauge type 304 stainless steel.

LEGS:
- 1 5/8" diameter tubular stainless steel.
- Stainless steel gussets & channels.
- Stainless Steel 1" adjustable bullet feet.

YES! It's SeaMLess!

BOWL SIZE	O.A. LENGTH (inches)	O.A. LENGTH (mm)	DRBD. SIZE (inches)	DRBD. SIZE (mm)	SPEC-LINE 940 Series 14 Ga. 304 S/S 14" Water Level MODEL #	Approx. Wt. (lbs.)	STANDARD 930 Series 16 Ga. 304 S/S 12" Water Level MODEL #	Approx. Wt. (lbs.)	SUPER SAVER 900 Series 18 Ga. 304 S/S 12" Water Level MODEL #	Approx. Wt. (lbs.)	Cubic Feet
16 x 20 (406 x 508)	72"	1854	18"	457	94-2-36-18RL	141	93-2-36-18RL	118	9-2-36-18RL	100	40
	85"	2159	24"	610	94-2-36-24RL	156	93-2-36-24RL	130	9-2-36-24RL	110	46
	109"	2769	*36"	914	94-2-36-36RL	212	93-2-36-36RL	169	9-2-36-36RL	144	58
20 x 20 (508 x 508)	81"	2057	18"	457	94-22-40-18RL	176	93-22-40-18RL	147	9-22-40-18RL	125	44
	93"	2362	24"	610	94-22-40-24RL	220	93-22-40-24RL	184	9-22-40-24RL	162	50
	117"	2975	*36"	914	94-22-40-36RL	273	93-22-40-36RL	237	9-22-40-36RL	215	72
18 x 24 (457 x 610)	77"	1937	18"	457	94-62-36-18RL	247	93-62-36-18RL	206	9-62-36-18RL	181	50
	89"	2242	24"	610	94-62-36-24RL	277	93-62-36-24RL	241	9-62-36-24RL	226	58
	113"	2877	*36"	914	94-62-36-36RL	341	93-62-36-36RL	297	9-62-36-36RL	271	96
24 x 24 (610 x 610)	101"	2565	24"	610	94-42-48-24RL	339	93-42-48-24RL	295	9-42-48-24RL	259	65
	125"	3175	*36"	914	94-42-48-36RL	391	93-42-48-36RL	339	9-42-48-36RL	314	96
20 x 28 (508 x 711)	81"	2057	18"	457	94-82-40-18RL	251	93-82-40-18RL	219	9-82-40-18RL	194	64
	93"	2362	24"	610	94-82-40-24RL	294	93-82-40-24RL	253	9-82-40-24RL	228	73
	117"	2972	*36"	914	94-82-40-36RL	333	93-82-40-36RL	287	9-82-40-36RL	261	96
					14" Water Level 17" Flood Level		12" Water Level 15" Flood Level		12" Water Level 15" Flood Level		

*** Regalines with 36" Drainboards are Supplied with Two Sets of Legs for Support.**

ADVANCE TABCO
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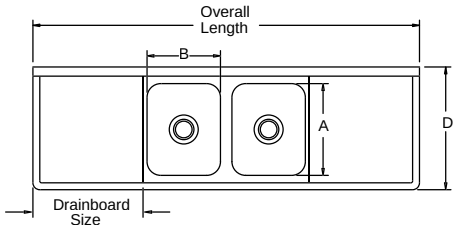
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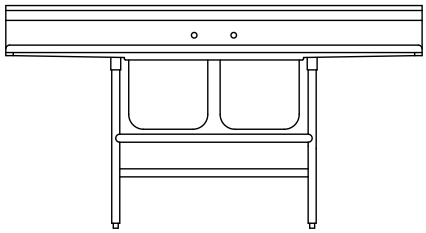
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GEORGIA Fax: (770) 775-5625
TEXAS Fax: (972) 932-4795
NEVADA Fax: (775) 972-1578

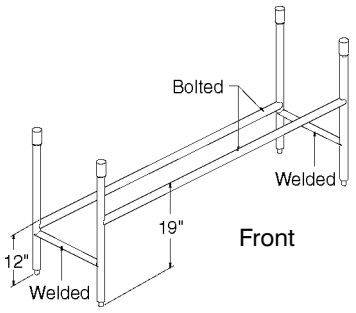
DIMENSIONS and SPECIFICATIONS

TOL Overall: ± .500”
Interior: ± .250”

ALL DIMENSIONS ARE TYPICAL







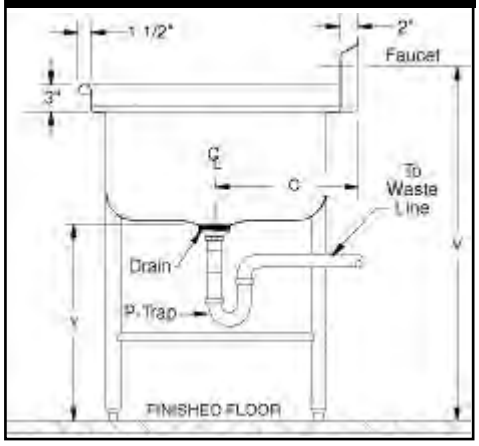
940 Series Cross Bracing

DESCRIPTION

BOWL (SIZE)	Overall Length	DRBD (SIZE)	Recommended Use	A	B	C	D	940 SERIES V	940 SERIES W	940 SERIES X	940 SERIES Y	940 SERIES Z	900 & 930 SERIES V	900 & 930 SERIES W	900 & 930 SERIES X	900 & 930 SERIES Y	900 & 930 SERIES Z
16x20	73” 85” 109”	18” 24” *36”	DISH SINKS	20”	16”	13 5/8”	27”	**38”**	**11”**	**14”**	**20”**	**45”**	38”	8”	12”	22”	42”
20x20	81” 93” 117”	18” 24” *36”	DISH & POT SINKS	20”	20”	13 5/8”	27”	**38”**	**11”**	**14”**	**20”**	**45”**	38”	8”	12”	22”	42”
18x24	77” 89” 113”	18” 24” *36”	POT & PAN SINKS	24”	18”	15 5/8”	31”	**38”**	**11”**	**14”**	**20”**	**45”**	38”	8”	12”	22”	42”
24x24	101” 125”	24” *36”	POT SINKS	24”	24”	15 5/8”	31”	**38”**	**11”**	**14”**	**20”**	**45”**	38”	8”	12”	22”	42”
20x28	81” 93” 117”	18” 24” *36”	PAN SINKS	28”	20”	17 5/8”	35”	**38”**	**11”**	**14”**	**20”**	**45”**	38”	8”	12”	22”	42”

*** Regalines with 36” Drainboards are Supplied with Two Sets of Legs for Support.**

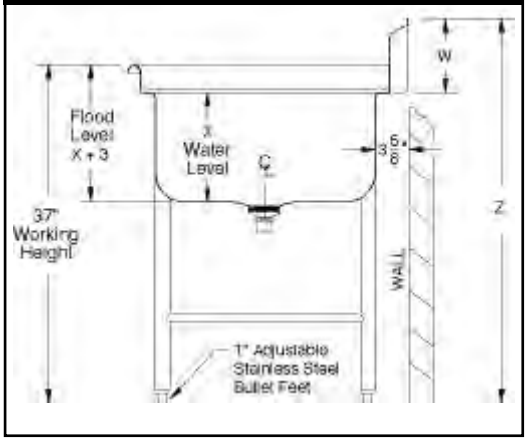
PLUMBING ROUGH-IN



MECHANICAL:

- Supply is 1/2” IPS hot & cold.
- Faucet holes on 8” centers.
- Faucets are not included **(see accessories)**.
- Waste drains are 1 1/2” IPS S/S basket type, located in center of sink bowl, and are included.

SECTION



ADVANCE TABCO
SMART FABRICATION™

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

200 Heartland Boulevard, Edgewood, NY 11717-8380
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SPLASH MOUNTED FAUCETS

Splash Mount Swivel Gooseneck

Single Hole



K-121

AC/DC powered Hands-Free Gooseneck

AC & Battery Operated!



K-175 Single Hole

3-1/2" Gooseneck

4" O.C.



K-59

HEAVY DUTY Gooseneck

4" O.C.



K-69

6" Extended Spout

4" O.C.



K-123

6" Extended Spout with Wrist Handles

4" O.C.



K-206

12" Swing Spout

8" O.C.



K-1

14" Swing Spout

8" O.C.



K-11

8" Swing Spout

8" O.C.



K-101

HEAVY DUTY 14" Swing Spout

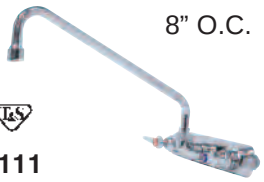
8" O.C.



K-105

HEAVY DUTY 14" Swing Spout (T&S)

8" O.C.



K-111

HEAVY DUTY 12" Swing Spout (T&S)

8" O.C.



K-112

16" Swing Spout

8" O.C.



K-119

3-1/2" Gooseneck Spout

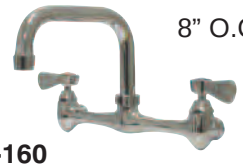
8" O.C.



K-159

6" D-Style Extended Spout

8" O.C.



K-160

HEAVY DUTY Extra Long Faucet



K-211

HEAVY DUTY Pre-Rinse Faucet

DTA-53

K-114 Replacement Spray Head & Handle



HEAVY DUTY Pre-Rinse Faucet (T&S)

K-116

K-114 Replacement Spray Head & Handle



12" Swing Spout Add-A-Faucet



K-117

Service Faucet

Does not meet Federal Lead Free Standards as it is not intended for potable water.



K-240

ADVANCE TABCO SMART FABRICATION™
www.advancetabco.com

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ADVANCE TABCO®
SMART FABRICATION™

SINGLE BAR POT RACKS

Item #: _____ Qty #: _____
Model #: _____
Project #: _____



FEATURES:

Wall mounted single bar Pot Rack .

MATERIAL:

Flat steel bar is 2" x 1/4", either stainless steel, powder coated or aluminum (as specified).

Pot hooks are double prong plated. (6-9 per unit)

CONSTRUCTION:

All welded stainless steel units are blended to a satin finish.

All powder coated units are coated with FDA approved material.

Aluminum is die formed from single piece.

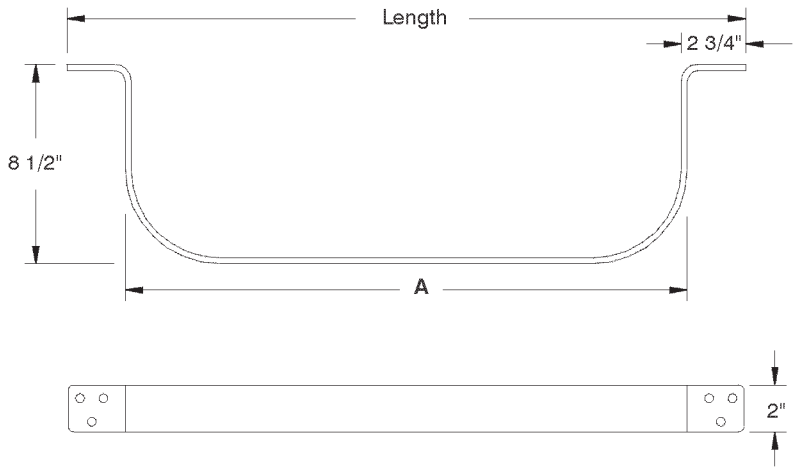
Length	A	S/S	Wt.	POWDER COATED	Wt.	ALUMINUM	Wt.	# of Hooks
29"	24"					ALW-24	5 lbs.	6
41"	36"	SW1-36	13 lbs.	GW1-36	13 lbs.	ALW-36	6 lbs.	6
53"	48"	SW1-48	15 lbs.	GW1-48	15 lbs.	ALW-48	7 lbs.	6
65"	60"	SW1-60	17 lbs.	GW1-60	17 lbs.			9
77"	72"	SW1-72	19 lbs.	GW1-72	19 lbs.			9
89"	84"	SW1-84	21 lbs.	GW1-84	21 lbs.			9
101"	96"	SW1-96	23 lbs.	GW1-96	23 lbs.			9
113"	108"	SW1-108	25 lbs.	GW1-108	25 lbs.			9
125"	120"	SW1-120	27 lbs.	GW1-120	27 lbs.			9

Units 7 ft. and larger are furnished with three (3) sets of brackets.

DETAILS and SPECIFICATIONS

TOL ± .500"

ALL DIMENSIONS ARE TYPICAL



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119.05

Heavy-Duty Steel Shelving - 60 x 24 x 72"



Enlarge & Video

Highest capacity storage for motors, dies and heavy machine parts. Up to 3,250 lbs. per shelf!

- **Boltless assembly**. Shelves snap into place and adjust at 1 1/2" increments.
- Four-way access for easy loading and unloading.
- 14-gauge steel posts; 16-gauge steel shelves.
- Tough, powder-coat finish.
- Made in USA.



MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF SUPPORTS	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 2+	IN STOCK SHIPS TODAY
H-4862	60 x 24 x 72"	5	5	3,250	263	$795	$770	1 ADD

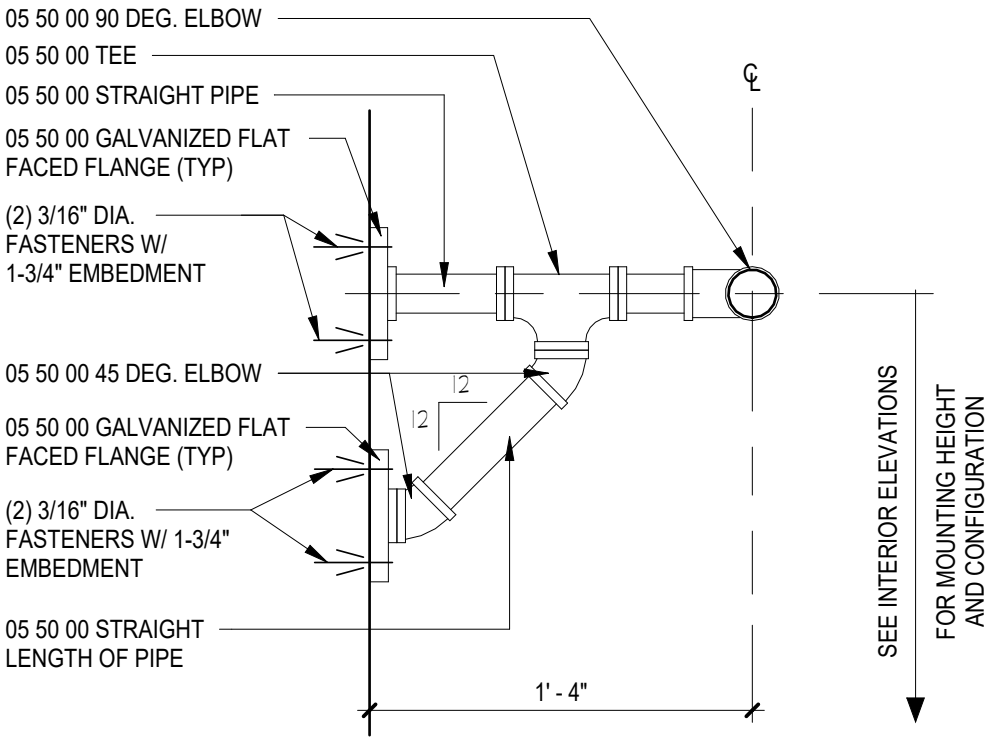
SHIPS UNASSEMBLED VIA MOTOR FREIGHT

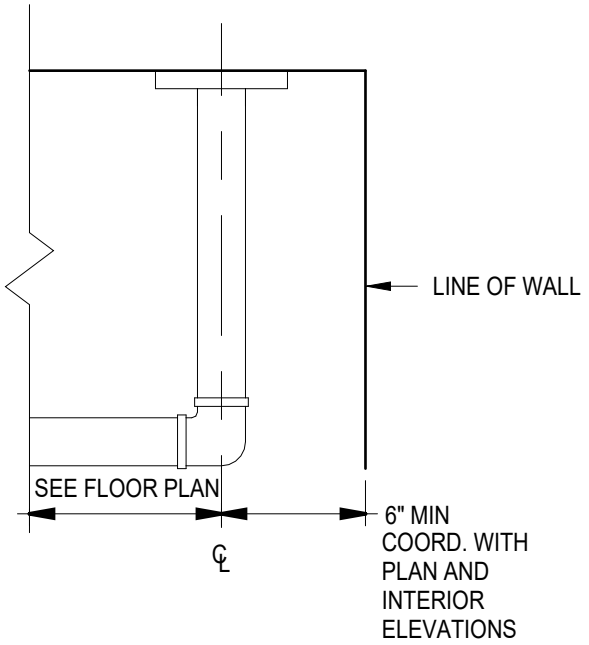
Additional Info Parts Shopping Lists Request a Catalog

RELATED ITEMS

Room
119A
PPE Drying Room

119A.01





PLAN VIEW AT END CONDITION

NOTE:
1. ALL PIPE & FITTINGS ARE 1-1/4" A90 GALVANIZED
2. PROVIDE SHORT NIPPLE BETWEEN ALL FITTINGS.
3. LOCATE SUPPORT BRACKETS AT 5'-0" O.C., MAX.
4. 09 91 23 ALL COMPONENTS TO BE PAINTED TO MATCH ADJACENT WALL

4 GEAR RACK 2 DETAIL

SCALE 1 1/2" = 1'-0"

120A.02



Installation and **Owners Manual**

Models: 100-002 - 100-004 V2 - 100-008 V2 - 500-015 - 500-014 V2



CYCLONE
DRYING SYSTEMS

6672 W. Boekel Rd. Rathdrum, ID. 83858 | (208) 704-3171 | www.heatercraft.com

Warranty

Cyclone Drying Systems by Heater Craft 1 Year Limited Parts Warranty

Cyclone Drying Systems by Heater Craft warrants your Cyclone Drying Systems product to be free from defects in material and craftsmanship under normal use and service by the original purchaser of the Dryer for one (1) year from the purchase date. The limited warranty does not apply if the Dryer has been damaged by accident, install, unreasonable use, lack of maintenance, and unauthorized repairs or modifications.

Heater Craft's obligation under this warranty is limited to replacement of parts only. Service and or repair will be the responsibility of the purchaser. Any expense incurred in the removal, reinstallation, or transportation of the dryer is not covered by the warranty. A return authorization number is required prior to returning any parts. The return authorization number needs to be marked on the exterior of the carton for identification. Please call Heater Craft customer service to obtain a Return Authorization Number. Warranty parts received without a Return Authorization number may be returned at the expense of sender.

Send defective parts to:
Cyclone Drying Systems by Heater Craft
6672 W. Boekel Road
Rathdrum, ID 83858
Attn: Warranty Dept.

Postage must be prepaid and the original dated proof-of-purchase must be included. Cyclone Drying Systems by Heater Craft will not be liable for any damages sustained in transport due to improper packaging or handling. The acceptance by Cyclone Drying Systems by Heater Craft of any parts returned shall not be deemed as an admission that the product is defective or in any violation of any warranty.

This warranty is Cyclone Drying Systems by Heater Crafts only express warranty of this product. No implied warranty shall extend beyond one (1) year from the date of purchase by the original buyer. Cyclone Drying Systems by Heater craft will not be liable for any damages, for loss of use of this product, nor for any consequential damages, costs or expenses.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights not mentioned here that vary from state to state.

Cyclone Dryer Specifications

Model No.	Description	WxDxH in inches.	Air Flow	Amps	Voltage	Weight
100-002	2-Pair Drying System	10" x 19" x 16.5"	92 cfm	4.5A	120V	24 lbs.
100-004 V2	4-Pair Drying System	12" x 14" x 54"	92 cfm	9A	120V	59 lbs.
100-008 V2	8-Pair Drying System	23" x 14" x 54"	184 cfm	12A	120V	75 lbs.
500-015	8-Pair Glove Dryer	20.5"x 20.5"x 23.5"	184 cfm	13A	120V	58 lbs.
500-014 V2	14-Pair Drying System	34" x 21" x 62"	350 cfm	16.5A	120V	150 lbs.
500-023 V2	23-Pair Drying System	62" x 55" x 20"	700 cfm	30A	230V**	450 lbs.
500-048 V2	48-Pair Drying System	55" x 40" x 65"	700 cfm	40A	230V**	650 lbs.

*The weights listed on this specs chart are approximations of the final shipping weight of the dryers and may vary slightly depending on packaging, quantity, and/or type of accessories included within the shipment.

**230V U.S. Four Wire Connection

Installation of Cyclone Dryer

Note: Because of the size and weight of the Cyclone Dryer most units are shipped by common motor freight. Upon receiving your Cyclone Dryer please inspect the unit thoroughly for any damage. If the unit is damaged do not accept delivery and contact customer service at Cyclone Drying Systems by Heater Craft (208)-687-4400.

1. Remove dryer from packaging and dispose of packaging properly.
2. Dryer must be installed indoors away from standing water.
3. Install mounting bracket to desired wall. (Don't forget to have an outlet close enough to plug dryer in).
4. Locate stud using a stud finder
5. Pre-drill 5/32" hole at least 55" off the floor.
6. Mount the bracket using one of the holes (in the bracket) to the stud.
7. Use the anchors provided for the other hole or holes in the bracket.
8. Once the bracket is mounted hang the Dryer on it and plug in the cord.

4 & 8 Pair Bracket Mounting Instructions

1. Locate stud using a stud finder.
2. Pre-drill 5/32" hole at least 55" from the floor.
3. Mount the bracket using one of the 2 holes (in bracket) to the stud.
4. Use the anchor provided for the other hole.
5. Once the bracket is mounted hang the boot dryer unit on to the bracket and plug in to start using.

There are 2 anchors provided if a stud is not going to be used. It is recommended that a stud is used if possible.

14 and 23 Pair Wall Mount Instructions

Kit includes 2 drywall anchors, 2 screws for them, 1 Stud screw, and 2 wall brackets.

1. After selecting desired location, find stud if possible for one of the brackets on the top of the dryer and mark the spots for mounting.
2. Place the drywall anchor in the mark where there is no stud.
3. Place dryer back in position an screw to the wall.

Note: if at least one stud is not available use both drywall anchors to attach to wall.

For Your Records

Model Number_____ Date Installed_____

Installers Contact Information

Name_____

Address_____ State_____ Zip_____

Daytime Phone_____ Mobile Phone _____

Email Address_____ Other _____

Questions?

Call for Technical Support (208)-687-4400 or Fax (208)-687-9700, www.heatercraft.com

Exterior Cleaning

Note: The powder coat finish used in the manufacture of your Cyclone Drying Systems product is one of the most durable color coatings available. However, to obtain the very best results in overall finish longevity, correct product handling and care is essential.

Regular dusting and cleaning will extend the life of the surface and help retain its appearance. Cleaning should be conducted routinely in three to six month intervals.

Disconnect unit from power source. Clean with a diluted solution of mild liquid detergent and warm water. While cleaning be careful not the get excessive amounts of liquid inside the unit.

Use a soft bristle brush. Do not use abrasive tools on coating. After cleaning, wipe off thoroughly with a clean damp towel to remove any detergent residue.

Do not use strong solvent type cleaners. Where the use of solvent is required in the event of a paint spill, use nothing other than Methylated Spirits. Ensure that the contact time is short as possible, and wipe away the solvent cleaner thoroughly from the surface with a towel rinsed in fresh water.

Do not use Acetates, Dulon Thinners, Methyl Ethyl Ketone (MEK) or petrol products. Highly acidic cleaners are not recommended either.

Interior Cleaning

Disconnect unit from power source. Periodically view fan motor(s) through the intake slots in the front and/or back of the dryer. If the fan motor(s) intake has an accumulation of dust, use compressed air to blow the dust away from the intake.

If the working environment of the dryer is dusty and you are cleaning the intake(s) more than twice a year, it is recommended that you remove the back panel of the unit and vacuum out the dust from the dryer cabinet.

Under normal operations, removal of the back panel of the dryer and vacuuming out dust from inside the cabinet should occur every two years.



Dry Gear Made

Simple

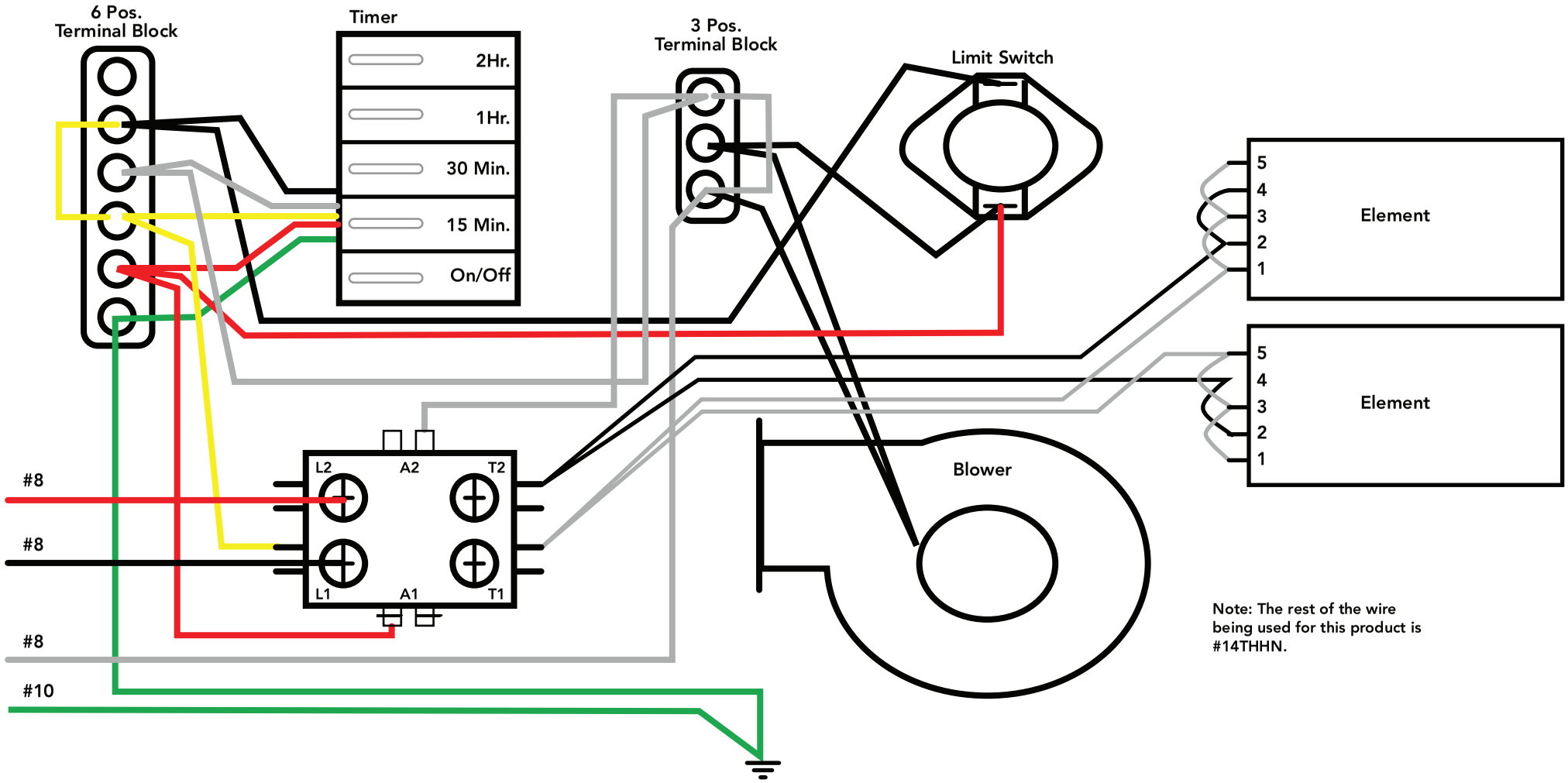
CYCLONE
DRYING SYSTEMS

6672 W. Boekel Rd. Rathdrum, ID. 83858 | (208) 704-3171 | www.heatercraft.com

48 Pair Cyclone Dryer Schematic

Call for Technical Support (208)-687-4400 or Fax (208)-687-9700, www.heatercraft.com

230V U.S. Four Wire Connection



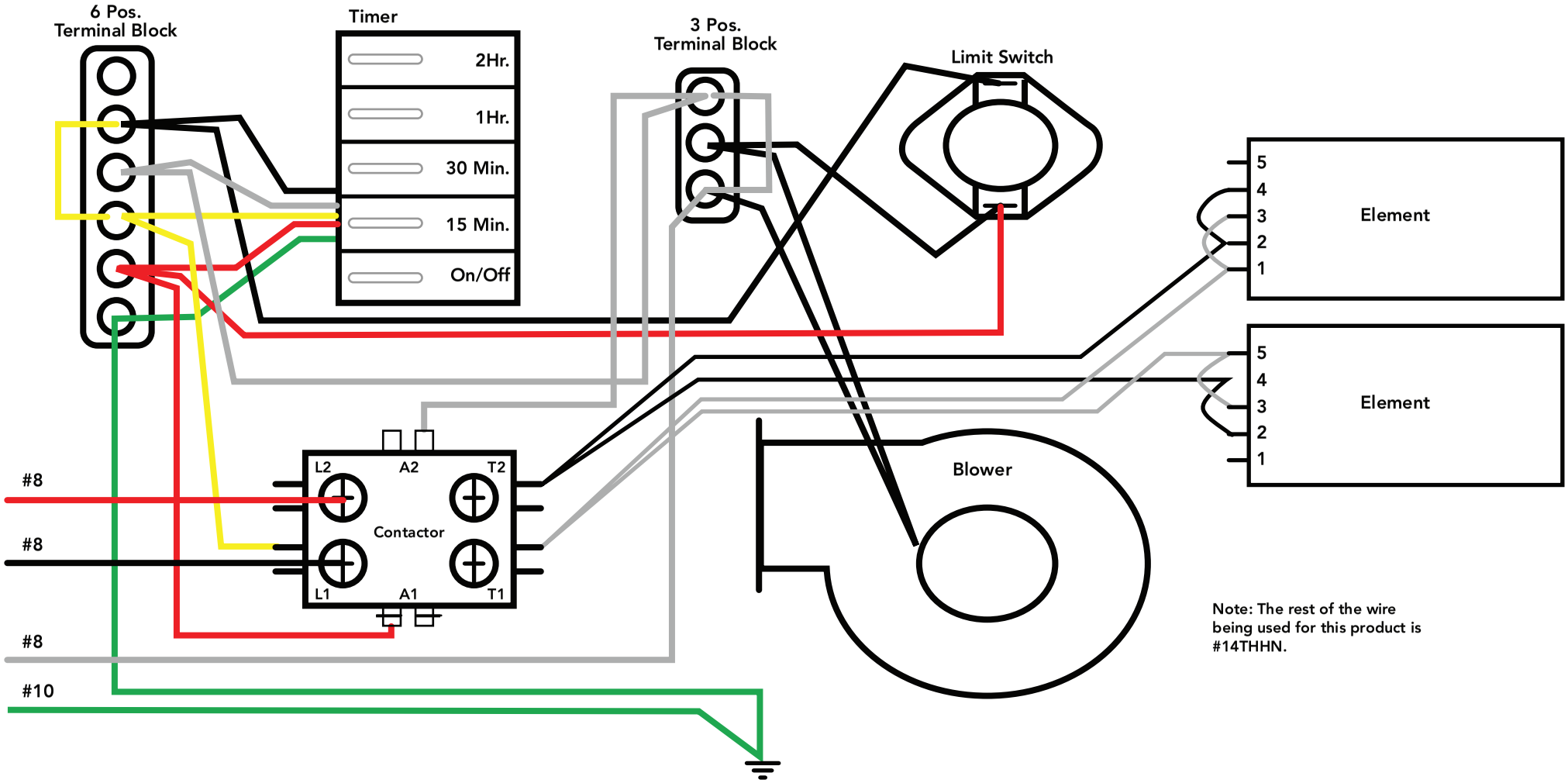
Note: The rest of the wire being used for this product is #14THHN.

Grounds attached to bottom of main chassis

24 & 28 Pair Cyclone Dryer Schematic

Call for Technical Support (208)-687-4400 or Fax (208)-687-9700, www.heatercraft.com

230V U.S. Four Wire Connection



Note: The rest of the wire being used for this product is #14THHN.

Grounds attached to bottom of main chassis

The Cyclone Drying Systems Advantage!

It's expensive to safely outfit and equip a firefighter. Turnout, boots, mask, SCBA, you get the picture. Add it all up and costs can easily exceed $5,000 per firefighter. Everyone agrees that it's money well spent. Fortunately there is a way to make a portion of that well-spent money work harder. Introducing Cyclone Drying Systems by Heater Craft. Our Professional Turnout Drying Appliance organizes and safely dries turnouts quickly while extending their usable life by as much as 25%.

Cost savvy firefighters and fire equipment managers understand that money saved by not replacing turnouts prematurely can be spent on personnel or other life saving equipment. Today's tough financial realities have fire department budgets stretched thin and maximizing the useful life of your equipment is a top priority. We can help. The Cyclone Drying Systems' Professional Turnout Drying Appliance is a smart investment that will pay financial dividends, as well as enhance safety and performance for years to come.

ORGANIZED, DRY and READY for any emergency situation. That's the Cyclone Drying Systems advantage.



Helmet	$200
Hood	$24
Suspenders	$27
Coat	$922
SCBA	$3,000
Mask	$200
Gloves	$67
Pants	$623
Boots	$235
Total=	$5,298

"This dryer is fantastic! Your company has designed, manufactured and delivered an exceptional product!"

Captain Pat Riley
Northern Lakes Fire District
Hayden, Idaho

Professional Turnout Dryers		
Model #	**Size**	**Description**
#100-001	1T	8 drying arms or dries 1 turnout set
#500-003	3T	28 drying arms or dries 3 turnout sets
#500-005	5T	48 drying arms or dries 5 turnout sets
#500-006	6T	56 drying arms or dries 6 turnout sets
#500-010	10T	96 drying arms or dries 10 turnout sets

Turnout Dryer Accessories	
Model #	**Description**
#600-405	Helmet adapter
#046-13B	Drying arm cover, full sleeve
#600-455	Drying arm, turnout extension
#650-500	Small castered stand, fits dryer #500-006
#600-550	Large castered stand, fits dryer #500-010

cyclone® drying systems by HEATER CRAFT

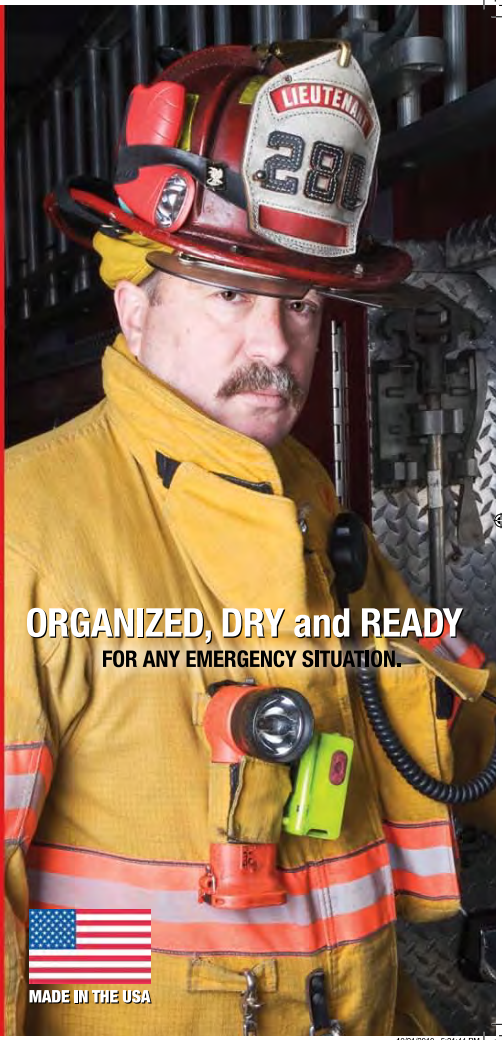
6672 Boekel Road, Rathdrum, ID 83858
(208) 687-4400 fax: (208) 687-9700
www.cyclonedryingsystems.com

cyclone® drying systems by HEATER CRAFT

Professional Turnout Drying Appliances



Featured: 3 turnout drying appliance



ORGANIZED, DRY and READY

FOR ANY EMERGENCY SITUATION.

MADE IN THE USA

cyclone® drying systems by HEATER CRAFT

Professional Turnout Drying Appliances

Dry your wet turnout gear from the inside out in just a fraction of the normal time. This efficiency contributes to an advanced state of readiness, enhanced performance and safety because turnouts that are thoroughly dry provide greater heat resistance.

It's a fact: Properly drying turnout gear extends its usable life and saves money. Then add the time savings and convenience of not having to dry your gear by stringing it from one end of the station to the other and you will soon realize the Cyclone Drying Systems' Professional Turnout Drying Appliance not only saves time and money, it will make your job easier.

Temperature controlled forced air circulates through your coats, pants, liners, gloves, boots, helmets, *even hoses,* quickly eliminating moisture and reducing growth of bacteria and mildew.

Dryers feature all steel, welded construction and easy to clean powder coated finish.



#100-001

1 Set Turnout

8 drying arms safely deliver enough warm air to dry a single turnout, or convenient combinations of gloves, boots or helmets. Plugs directly into common 110 Volt wall socket.

Includes: Dryer, 2 turnout extensions and 2 drying arm covers.

Size	17.25" W x 13.5" D x 66" H
Air Flow	68 CFM
Watts	750
Amps	7
Voltage AC	120
Weight	65 lbs.



#500-003

3 Set Turnout

Modestly sized to take advantage of available wall space. Unit features 28 drying arms delivering enough warm air to dry up to 3 turnouts. Heavy-duty design mounts to wall and can be plugged directly into traditional 220 Volt dryer outlet.

Includes: Dryer, 6 turnout extensions and 2 drying arm covers.

Size	39" W x 12" D x 69" H
Air Flow	350 CFM
Watts	2500
Amps	30
Voltage AC	230
Weight	175 lbs.



MADE IN THE USA

#500-005

5 Set Turnout

48 drying arms deliver enough warm air to easily dry up to 5 turnouts. Heavy-duty design mounts to wall and can be plugged directly into traditional 220 Volt dryer outlet.

Includes: Dryer, 10 turnout extensions and 4 drying arm covers.

Size	65" W x 12" D x 69" H
Air Flow	700 CFM
Watts	2500
Amps	30
Voltage AC	230
Weight	230 lbs.



#500-010

10 Set Turnout

Free standing for maximum convenience and ease of loading. Unit features 96 drying arms delivering enough warm air to dry up to 10 turnouts. Can be plugged directly into traditional 220 Volt dryer outlet.

Includes: Dryer, 20 turnout extensions and 8 drying arm covers.

Size	65" W x 24" D x 69" H
Air Flow	700 CFM
Watts	5000
Amps	40
Voltage AC	230
Weight	500 lbs.

#600-405
Helmet adapter



#600-455
Turnout extension.



#046-13B
Drying arm cover









ORGANIZED, DRY and READY

FOR ANY EMERGENCY SITUATION.

Room
119B
Laundry

119B.01

UW SERIES
HARDMOUNT WASHER-EXTRACTORS



SERIOUS ABOUT LAUNDRY.

UniMac®

SERIOUS ABOUT LAUNDRY.

THE UNIMAC® UW SERIES:

LONGEST LASTING. HARDEST WORKING.

UniMac® has been recognized around the world as the leading manufacturer of commercial laundry equipment. We produce, sell and support more commercial washers and dryers in North America than any other company.

Every machine in the UW Series is designed to handle the toughest demands and heaviest on-premises laundry use. The result? The longest lasting machines in the industry. Why? Every UW Series machine:

- HANDLES DOUBLE THE SPINNING FORCE COMPARED TO CABINET WASHER-EXTRACTORS
- OFFERS THE LOWEST COST OF OWNERSHIP
- IS DESIGNED TO HANDLE THE LARGEST AND MOST UNBALANCED LOADS
- INDUSTRIAL STRENGTH MEANS LESS DOWNTIME, INCREASED EFFICIENCY AND A LONGER MACHINE LIFE



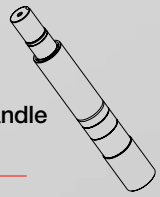


UW SERIES HARDMOUNT WASHER-EXTRACTORS 45-65 LB

LAUNDRY'S MOST VALUABLE PERFORMERS

UniMac's totally redesigned UW45 & 65 washer-extractors take industrial quality to the next level. They are extremely efficient, include top-of-the-line innovative features and still have the lowest cost of ownership — everything you'd expect from the world's largest commercial laundry manufacturer.

Most commercial laundry units run an average of three to five cycles per day. The industrial UW45 & 65 washer-extractors are designed to run 24/7. In fact, they are setting a new standard for on-premises laundry:



DRIVE SHAFT ASSEMBLY

Built for industrial needs, cylindrical front/spherical rear bearings can handle 200% more force than ball bearings. The result? A longer lasting machine.

FRAME

The plate-steel industrial frame is designed to handle vibration and unbalanced loads effortlessly. It can also be placed on an existing UW60 concrete pad.

MOTOR

Our motor has 67% more horsepower than cabinet washers of the same capacity. More power means the ability to handle around-the-clock use, increasing productivity and the life of the motor.

INVERTER DRIVE

The proven technology and proprietary design provide smooth, reliable power for optimal wash and extract performance.







A PROVEN RECORD OF RELIABILITY

At UniMac, we don't leave anything to chance. Our product development teams utilize a 5-step quality process to ensure optimal product performance. We test our machines in a state-of-the-art test lab and push them to the limit — all to make sure you get the best product on the market and the best performance in the field.

SERIOUS ABOUT LAUNDRY.

THE OPTISPRAY™ ADVANTAGE

LESS WATER. SUPERIOR RINSING. MAXIMUM THROUGHPUT.

As the leader in on-premises laundry, UniMac® continues to offer cutting-edge innovations that improve efficiency and maximize throughput. New OPTispray™ Rinsing Technology takes it to the next level. Available on all UniLinc™ cycles, OPTispray is an industry-leading technology designed with unique spray hardware and exclusive software that minimizes the water required to rinse a load and reduces cycle time with highly effective rinsing. Unlike bath rinses, which simply dilute wash chemistry, UniLinc with OPTispray uses spray rinsing power to pull wash chemistry through the load and down the drain. Think of it as a shower for your linens. The spray rinse carries away dirt and chemicals and leaves less residue behind – providing far superior rinse results than bath rinses alone.

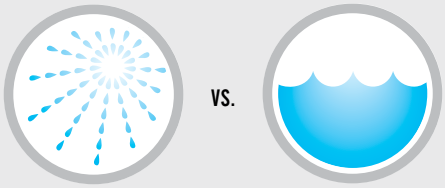
WATER SAVINGS
Consumes as much as 39% less water than competitor brands while maintaining the same wash quality you'd expect from UniMac

CYCLE TIME SAVINGS
Decreases cycle rinse times by up to 12% to increase throughput

SUPERIOR RINSING
Leaves 22% less residual wash chemistry in the load compared to our nearest competitor

UTILITY SAVINGS
Saves up to $2,110 in yearly utilities compared to competitor brands

OPTispray™



OPTispray | NORMAL BATH RINSE



WATER SAVINGS | SUPERIOR RINSE RESULTS

vs. Competitor's Best Cycle

THE SMARTEST WAY TO DO LAUNDRY

OPTIMAL CARE THROUGHOUT THE ENTIRE WASH AND DRY PROCESS

Combine OPTispray™ with ECO Cycles and OPTidry™ Over-dry Prevention Technology, and UniMac® provides the most advanced, comprehensive technologies on the market to reduce utility costs and optimize your laundry operation's efficiency. ECO Cycles are nine special, individual wash programs that are part of the 41 total UniLinc™ cycles, and they're able to reduce water use to a minimum and further decrease utility costs – while delivering the same wash quality you expect from UniMac. Along with OPTidry™ Over-dry Prevention Technology, which shortens dry times, saves labor costs, decreases the need for linen replacement and increases throughput on tumble dryers, you have the most efficient technologies in place. Designed to work together to provide unmatched productivity in your laundry operation, it's all part of UniMac's continued dedication to provide the lowest cost of ownership in the industry.

THE BEST JUST GOT BETTER

UW45 & 65 washer-extractors are already extremely efficient. Now with OPTispray, they provide higher efficiencies than ever before:

- 15% more water savings versus current UniLinc cycles
- 30% more water savings when combined with ECO Cycles
- 12% faster cycle times for increased throughput
- $1,793 more utility savings per year





THE ULTIMATE IN PERFORMANCE



400 G-FORCE EXTRACTION

The fastest hardmount in the industry. The result is maximum water removal, allowing your laundry to run at premium efficiency.

SPRAY RINSE

A 200% quicker fill means the cycle goes faster, allowing the user to do more in less time. By utilizing highly effective spray rinsing power to pull wash chemistry through the load and down the drain, OPTispray rinsing technology uses less water, further reduces cycle time and provides superior rinse results compared to bath rinses alone.

WIDTH

The 34.12" width easily fits through 36" commercial doorways and makes installation a breeze.

HEIGHT

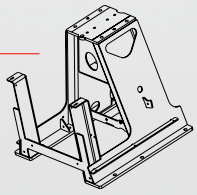
The 28.1" elevated door height ensures wash baskets can easily roll under the door for easy loading and less bending for users. This elevation eliminates the need for an expensive secondary machine base — perfect for OPL use.

DOOR

New door is standardized to open from the right paired with a proven roll pin/cam lock system to ensure smooth opening and closing.

FRAME

Our new frame design optimizes strength from every ounce of steel. It weighs more than twice as much as a cabinet washer frame.



TAKE COMPLETE CONTROL

Our UniLinc™ controls are revolutionizing the way people think about laundry.

- SAVE WATER AND ENERGY
- INCREASE THROUGHPUT
- GAIN FLEXIBILITY AND CONTROL
- MONITOR YOUR LAUNDRY
- EASY TO USE
- WIRELESS NETWORKING



OUR COMMITMENT

Our customers are the direct focus of every product we manufacture and every decision we make. Our commitment is to delight each customer with every interaction they have with our company without question or compromise. It's what we call Customer One.

We make sure every piece of UniMac equipment comes with peace of mind and the support you need to help your business succeed. We are with you every step of the way for:

WARRANTY PROTECTION

A five-year warranty covers the frame, basket, shaft, bearings and seals from failure or breakage during normal operation due to defects in material or workmanship. A limited three-year warranty is offered on all other parts.

SERVICE PARTS AVAILABILITY

SUPPORT FROM A TEAM OF TRAINED TECHNICIANS AND A WORLDWIDE NETWORK OF DISTRIBUTORS

SERVICE TRAINING CERTIFICATION FOR DISTRIBUTORS THROUGH ALLIANCE LAUNDRY SYSTEMS UNIVERSITY



UW SERIES – AT A GLANCE:

- **Industrial construction is built to run 24/7**
- **Helps reduce drying time and increase throughput with an industry-leading 400 G-Force hardmount**
- **Advanced UniLinc™ technology with 41 programmable cycles**
- **Exclusive OPTispray™ rinsing technology saves water, reduces cycle time and provides superior rinsing**
- **Bigger motor has 67% more horsepower than cabinet washer-extractors**
- **Handles unbalanced loads effortlessly**
- **34.12" width easily fits through 36" commercial doorways**
- **Perforated cylinder ribs maximize wash action**
- **Auto leak detection greatly reduces water loss due to valve blockages or failures**
- **Six bolts with vertical wrench access make installation easier**

UW SERIES HARDMOUNT WASHER-EXTRACTORS 65 LB – UniLinc™ Control

SPECIFICATIONS		UW65		
Control Options		UniLinc™		
Capacity - lb (kg)		65 (30)		
Cylinder Diameter - in (mm)		31" (787)		
Cylinder Depth - in (mm)		22" (559)		
Cylinder Volume - cu. ft. (liters)		9.61 (272)		
Height - in (mm)		64.43" (1637)		
Width - in (mm)		34.12" (867)		
Depth - in (mm)		49.83" (1266)		
Door Opening Size - in (mm)		17.8" (452)		
Door Bottom to Floor - in (mm)		28.09" (713)		
Motor Size - HP (kW)		5 (3.7)		
Total # of Speeds		L Sp	M Sp	V Sp
		5	6	9
Cylinder Speed - RPM (G-Force)	Gentle	30 (0.4)	30 (0.4)	30 (0.4)
	Wash	42 (.78)	42 (.78)	42 (.78)
	Distribution	75 (2.5)	75 (2.5)	75 (2.5)
	Very Low	248 (27)	248 (27)	248 (27)
	Low	477 (100)	477 (100)	477 (100)
	Medium	–	674 (200)	674 (200)
	High	–	–	754 (250)
	Very High	–	–	826 (300)
	Ultra High	–	–	954 (400)
Drain Diameter - in (mm)		3" (76)		
Steam Connection (Optional) - in (mm)		1/2" (13)		
Water Inlet Connection - in (mm)		4 @ 3/4" (19)		
Shipping Dimensions	Width - in (mm)	37.2" (945)		
	Depth - in (mm)	53.8" (1367)		
	Height - in (mm)	65" (1651)		
Net Weight - lb (kg)		1060 (481)		
Standard Shipping Weight - lb (kg)		1105 (501)		
Slat Crate Shipping Weight - lb (kg)		1230 (558)		
Agency Approvals		ETL, CE		



To learn more, or to find a distributor in your area, visit UNIMAC.COM

Alliance Laundry Systems - Shepard St, Ripon WI 54971 - 1.800.587.5458

Consult your UniMac distributor for details. For the most accurate information, the installation guide should be used for all design and construction purposes. Due to continuous product improvements, design and specifications subject to change without notice. The quality management systems at Alliance Laundry Systems' Ripon facility has been registered to ISO 9001:2008.

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Printed in the U.S.A.

UniMac®

SERIOUS ABOUT LAUNDRY.

Specifications and Dimensions

Specifications	45	65	85	105	130	160	200
Overall Dimensions							
Overall width, in. [mm]	34.1 [867]	34.1 [867]	40.1 [1019]	40.1 [1019]	46.1 [1171]	46.1 [1171]	46.1 [1171]
Overall height, in. [mm]	64.4 [1637]	64.4 [1637]	69.1 [1755]	69.1 [1755]	76.1 [1932]	76.1 [1932]	76.1 [1171]
Overall depth, in. [mm]	45.3 [1151]	51.1 [1298]	51.2 [1300]	56.2 [1427]	54.5 [1384]	60.0 [1524]	67.5 [1715]
Weight and Shipping Information							
Net weight, lbs. [kg]	1080 [490]	1110 [499]	1670 [757]	1700 [771]	2040 [925]	2070 [939]	2160 [980]
Standard shipping weight, lbs. [kg]	1120 [508]	1150 [522]	1720 [780]	1750 [794]	2100 [953]	2130 [966]	2220 [1007]
Standard shipping volume, ft^3 [m^3]	75 [2]	75 [2]	107 [3]	107 [3]	139 [4]	139 [4]	157 [4.4]
Standard shipping dimensions (WxDxH), in. [mm]	37.2 x 53.8 x 65 [945 x 1370 x 1650]	37.2 x 53.8 x 65 [945 x 1370 x 1650]	43.2 x 61.8 x 69.4 [1097 x 1570 x 1763]	43.2 x 61.8 x 69.4 [1097 x 1570 x 1763]	49.2 x 64.8 x 76.4 [1250 x 1646 x 1941]	49.2 x 64.8 x 76.4 [1250 x 1646 x 1941]	49.2 x 72.3 x 76.4 [1250 x 1836 x 1941]
Slat crate shipping weight, lbs. [kg]	1250 [567]	1280 [581]	1870 [848]	1900 [862]	2260 [1025]	2290 [1039]	2390 [1084]
Slat crate shipping volume, ft^3 [m^3]	97 [3]	97 [3]	158 [4.5]	158 [4.5]	186 [5.3]	186 [5.3]	207 [5.9]
Slat crate shipping dimensions (WxDxH), in. [mm]	41.7 x 56.8 x 70.8 [1060 x 1440 x 1800]	41.7 x 56.8 x 70.8 [1060 x 1440 x 1800]	47.7 x 64.8 x 88.3 [1212 x 1646 x 2243]	47.7 x 64.8 x 88.3 [1212 x 1646 x 2243]	53.7 x 67.8 x 88.3 [1364 x 1722 x 1915]	53.7 x 67.8 x 88.3 [1364 x 1722 x 1915]	53.7 x 75.3 x 88.3 [1364 x 1913 x 2243]
Wash Cylinder Information							
Cylinder diameter, in. [mm]	31.0 [787]	31.0 [787]	36.0 [914]	36.0 [914]	42.0 [1067]	42.0 [1067]	42.0 [1067]
Cylinder depth, in. [mm]	16.6 [4222]	22.1 [561]	22.0 [559]	27.0 [686]	24.5 [622]	30.0 [762]	37.5 [953]
Cylinder volume, ft^3 [l]	7.3 [185]	9.7 [246]	13.0 [368]	15.9 [450]	19.6 [555]	24.1 [682]	30.1 [852]
Cylinder capacity, lbs. [kg]	45 [20.4]	65 [29.5]	85 [38.6]	105 [47.6]	130 [59]	160 [72.6]	200 [90.7]
Perforation size, in. [mm]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]
Perforation open area, %	21.3	21.3	23.0	23.4	27.4	27.9	27.3
Door Opening Information							
Door opening size, in. [mm]	17.8 [452]	17.8 [452]	21.0 [533]	21.0 [533]	24.8 [630]	24.8 [630]	24.8 [630]
Height of door bottom above floor, in. [mm]	28.8 [732]	28.8 [732]	28.8 [732]	28.8 [732]	30.5 [775]	30.5 [775]	30.5 [775]

Table 1 *continues...*

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Specifications	45	65	85	105	130	160	200
Power Consumption							
Average power used per cycle, kW-hr. (Non-heat models)	0.30	0.35	0.45	0.52	0.64	0.75	0.80
Estimated Building Heat Load							
HVAC load	Use 15% of total energy used per cycle.						
Drive Train Information							
Number of motors in. drive train	1	1	1	1	1	1	1
Drive motor power, hp [kW]	5.0 [3.7]	5.0 [3.7]	7.5 [5.6]	7.5 [5.6]	10 [7.5]	10 [7.5]	10 [7.5]
Cylinder Speeds							
1/2 Wash/reverse, RPM [G]	30 [0.4]	30 [0.4]	28 [0.4]	28 [0.4]	26 [0.4]	26 [0.4]	26 [0.4]
Wash/reverse, RPM [G]	42 [0.78]	42 [0.78]	39 [0.78]	39 [0.78]	36 [0.77]	36 [0.77]	36 [0.77]
Distribution, RPM [G]	75 [2.5]	75 [2.5]	70 [2.5]	70 [2.5]	65 [2.5]	65 [2.5]	65 [2.5]
Very low extract, RPM [G]	248 [27]	248 [27]	230 [27]	230 [27]	213 [27]	213 [27]	213 [27]
Low extract, RPM [G]	477 [100] (L-Speed)*	477 [100] (L-Speed)*	443 [100]	443 [100]	410 [100]	410 [100]	366 [80]
Medium extract, RPM [G]	674 [200] (M-Speed)*	674 [200] (M-Speed)*	542 [150]	542 [150]	502 [150]	502 [150]	410 [100]
High extract, RPM [G]	754 [250]	754 [250]	626 [200] (M-Speed)*	626 [200] (M-Speed)*	579 [200] (M-Speed)*	579 [200]	458 [125]
Very high extract, RPM [G]	826 [300]	826 [300]	700 [250]	700 [250]	648 [250]	648 [250]	502 [150]
Ultra High extract, RPM [G]	954 [400] (V-Speed)*	954 [400] (V-Speed)*	766 [300] (V-Speed)*	766 [300] (V-Speed)*	710 [300] (V-Speed)*	710 [300] (V-Speed)*	579 [200] (M-Speed)*
*Maximum extract speed, depending on model. Refer to the L, M or V in the 10th digit of the model number.							
Balance Detection							
Stability switch installed	STD	STD	STD	STD	STD	STD	STD
Direct Steam Heating (Optional)							
Steam inlet connection size, in. (NPT)	1/2	1/2	1/2	1/2	3/4	3/4	3/4
Number of steam inlets	1	1	1	1	1	1	1
Maximum pressure, psi [kPa]	85 [570]	85 [570]	85 [570]	85 [570]	85 [570]	85 [570]	85 [570]
Required pressure, (min. - max. psi [kPa])	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]

Table 1 *continues...*

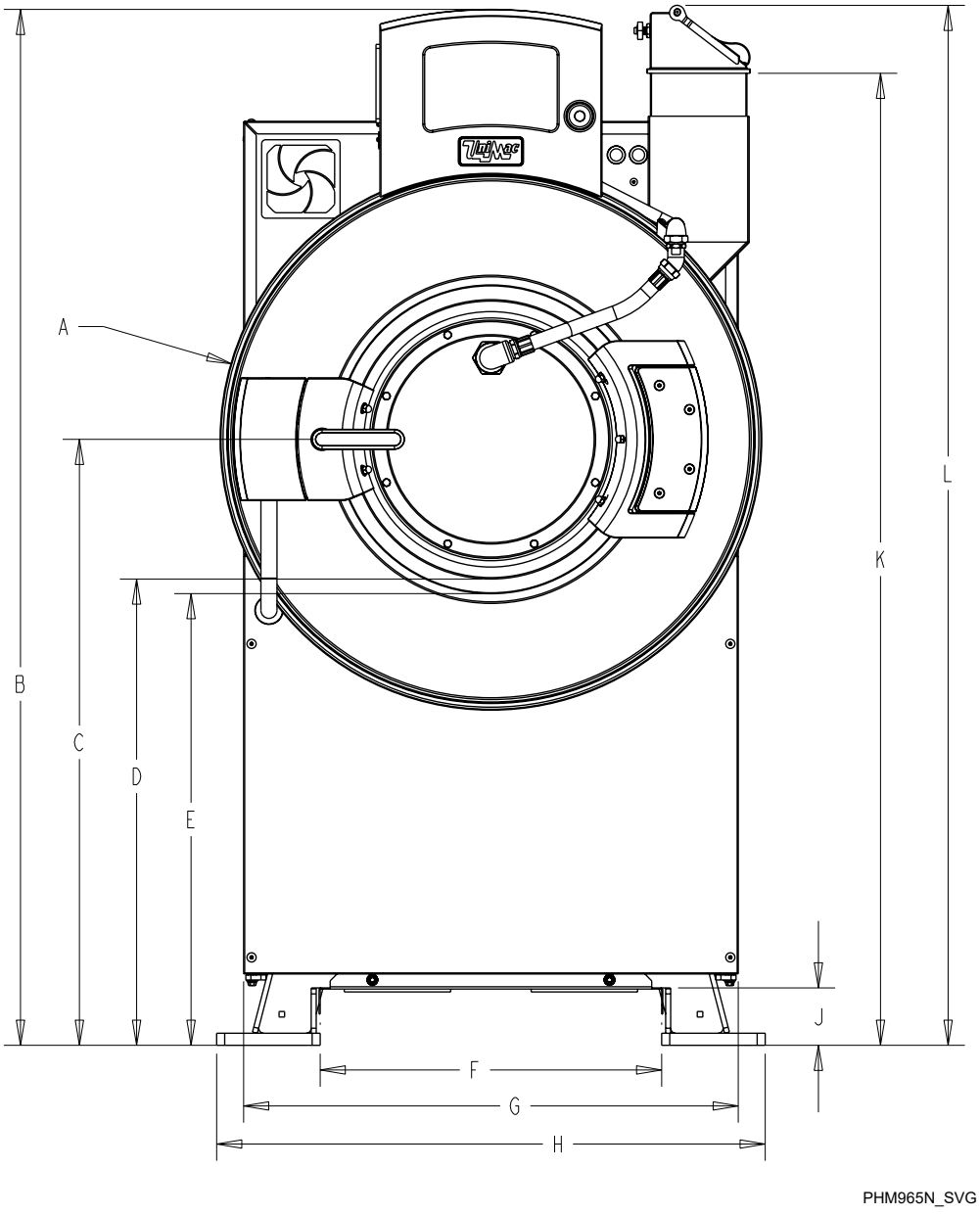
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Specifications		45	65	85	105	130	160	200
Steam required to raise bath temperature, 10°F, lbs. [10°C, kg]	LOW	2.5 [1.1]	3.3 [1.5]	4.6 [2.1]	5.7 [2.6)]	6.7 [3.0]	8.3 [3.8]	10.4 [4.6]
	MED	2.7 [1.2]	3.7 [1.7]	5.2 [2.4]	6.5 [2.9]	7.8 [3.5]	9.5 [4.3]	11.9 [5.2]
	HIGH	3.1 [1.4]	4.1 [1.9]	6.1 [2.8]	7.6 [3.4]	9.1 [4.1]	11.1 [5.0]	13.9 [6.1]
Average consumption per cycle, BHP [kgf m]		1.6 [122]	2.1 [160]	3.1 [236]	3.8 [289]	4.6 [350]	5.8 [441]	7.25 [551]
Electrical Heating (Optional)								
Total electrical heating capacity, kW	200V	19.1	19.1	28.6	28.6	N/A	N/A	N/A
	240V	27.4	27.4	41.2	41.2	N/A	N/A	N/A
	380V	17.2	17.2	17.2	17.2	34.4	34.4	34.4
	415V	20.5	20.5	20.5	20.5	41.0	41.0	41.0
	480V	27.4	27.4	27.4	27.4	54.8	54.8	54.8
Number of electrical heating elements		6/6	6/6	9/6	9/6	12	12	12
Electrical heating element size, kW		4.2	4.2	4.2	4.2	4.2	4.2	4.2
Time required to raise bath temperature, minutes per 10°F [5.5°C]	LOW	1.562	1.633	1.685	1.997	1.927	2.215	2.471
	MED	1.718	1.896	1.874	2.168	2.015	2.375	2.676
	HIGH	1.739	2.239	2.095	2.471	2.272	2.675	2.860
Noise Emission								
dBA	Max Extract	77	77	78	78	80	80	75
	Med Extract	69	69	70	70	75	75	68
	Agitate	64	64	66	66	66	66	66
N/A = Not Applicable								

Table 1

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Machine Dimensions



NOTE: Shown with spray and optional five compartment supply dispenser.

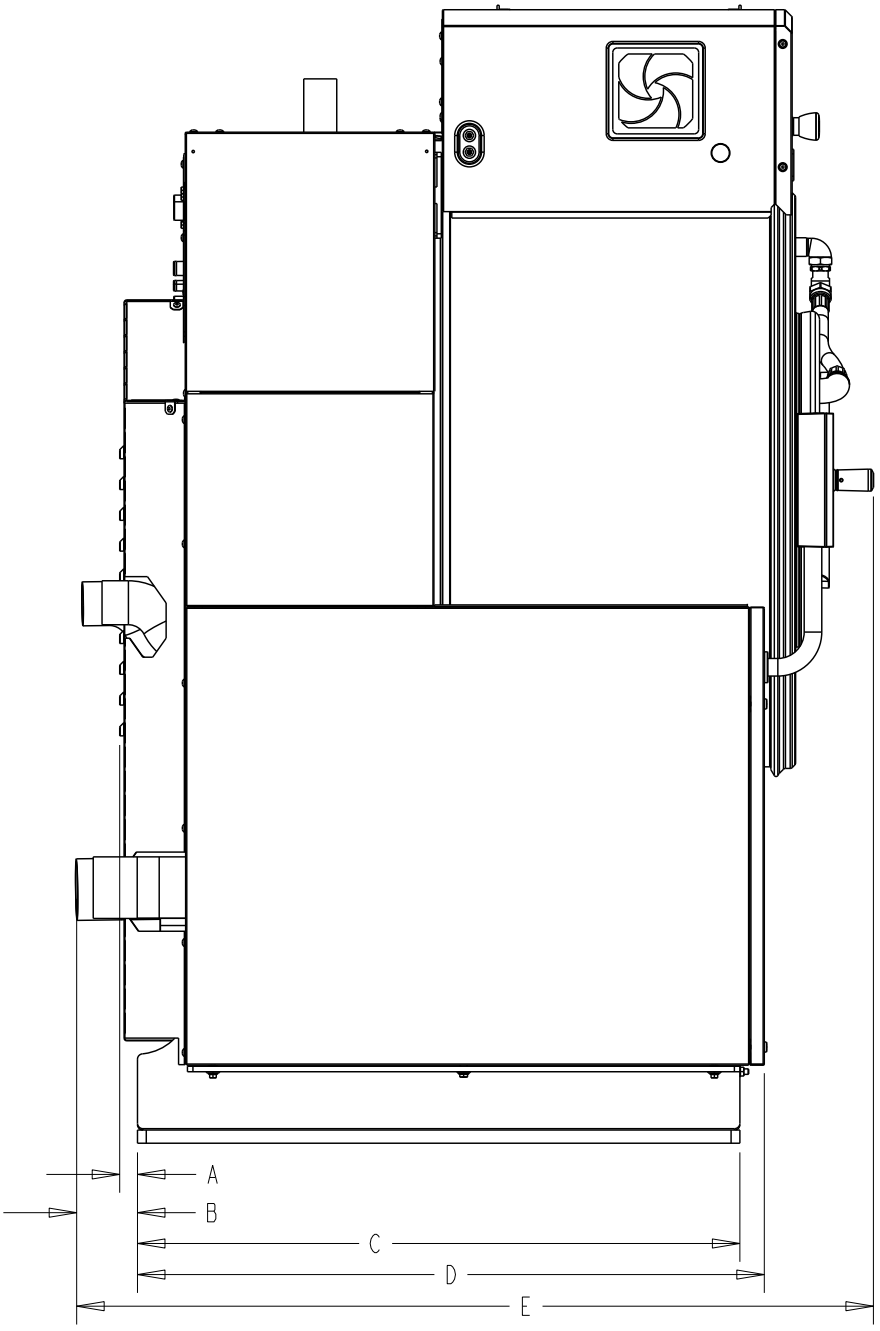
Figure 2

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Machine Dimensions, in. [mm]							
	45	**65**	**85**	**105**	**130**	**160**	**200**
A	33.7 [856]	33.7 [856]	39.4 [1001]	39.4 [1001]	45.7 [1161]	45.7 [1161]	45.7 [1161]
B	64.4 [1636]	64.4 [1636]	69.1 [1755]	69.1 [1755]	76.1 [1933]	76.1 [1933]	76.1 [1933]
C	37.7 [958]	37.7 [958]	39.3 [998]	39.3 [998]	42.9 [1090]	42.9 [1090]	42.9 [1090]
D	28.8 [732]	28.8 [732]	28.8 [732]	28.8 [732]	30.5 [775]	30.5 [775]	30.5 [775]
E	21.4 [544]	21.4 [544]	28.2 [716]	28.2 [716]	29.8 [757]	29.8 [757]	29.8 [757]
F	21.2 [538]	21.2 [538]	24.2 [615]	24.2 [615]	31.2 [792]	30.2 [767]	30.02 [767]
G	30.8 [782]	30.8 [782]	36.8 [935]	36.8 [935]	42.8 [1087]	42.8 [1087]	42.8 [1087]
H	34.1 [866]	34.1 [866]	40.1 [1019]	40.1 [1019]	46.1 [1171]	46.1 [1171]	46.1 [1171]
J	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]
K	60.7 [1542]	60.7 [1542]	63.6 [1615]	63.6 [1615]	68.7 [1745]	68.7 [1745]	68.7 [1745]
L	64.7 [1643]	64.7 [1643]	67.6 [1717]	67.6 [1717]	72.6 [1844]	72.6 [1844]	72.6 [1844]

Table 2

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NOTE: Shown with spray and optional five compartment supply dispenser.

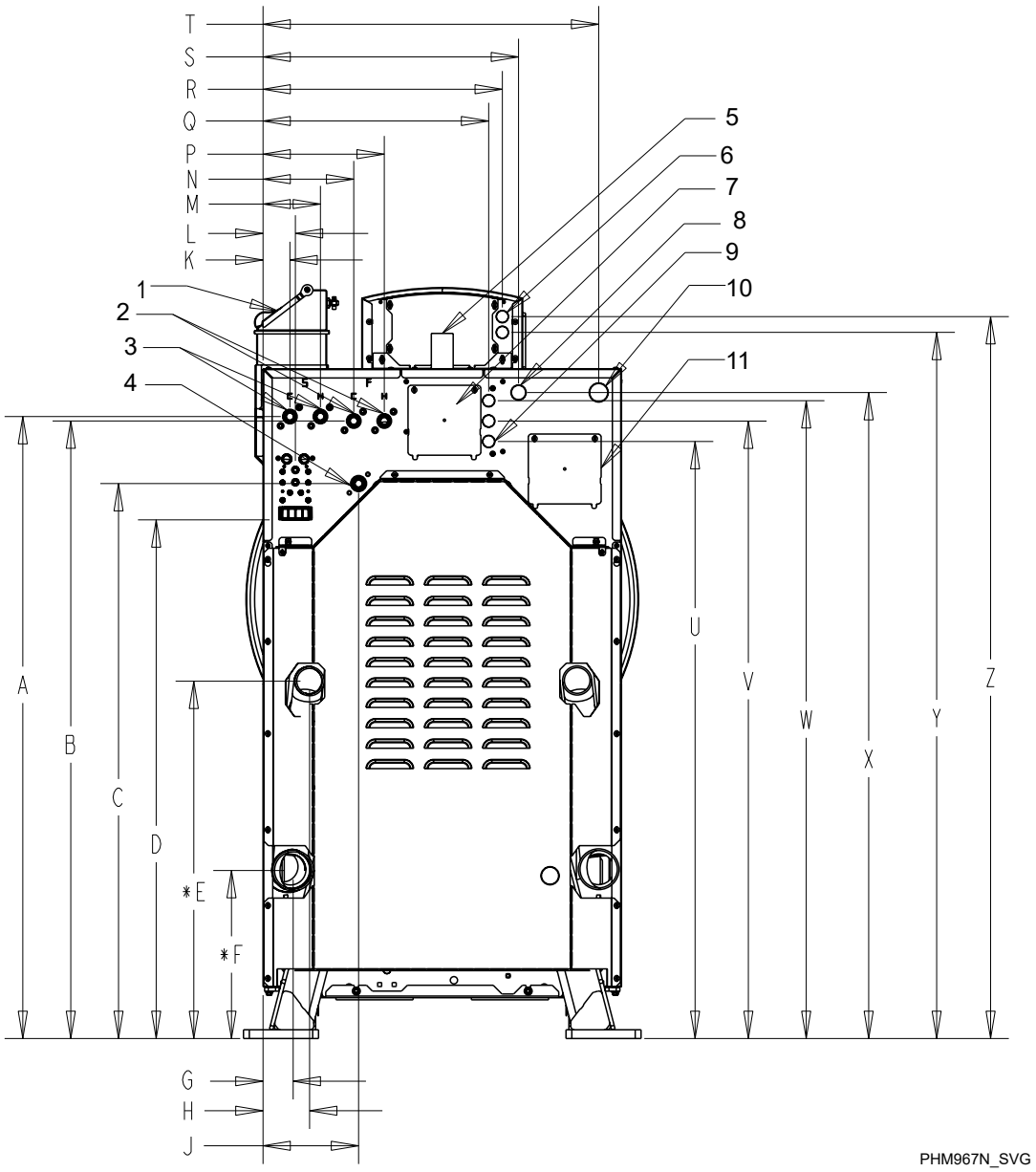
Figure 3

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Machine Dimensions, in. [mm]							
	45	**65**	**85**	**105**	**130**	**160**	**200**
A	0.8 [20]	0.8 [20]	0.6 [15]	0.6 [15]	0.9 [23]	0.9 [23]	0.9 [23]
B	3.5 [89]	3.5 [89]	1.8 [46]	1.8 [46]	2.0 [51]	2.0 [51]	2.0 [51]
C	34.2 [869]	34.2 [869]	42.2 [1072]	42.2 [1072]	44.7 [1135]	44.7 [1135]	44.7 [1135]
D	35.6 [904]	41.1 [1044]	43.5 [1105]	50.5 [1283]	46.0 [1168]	51.5 [1308]	59.0 [1499]
E	45.3 [1151]	51.1 [1298]	51.2 [1300]	56.2 [1427]	54.5 [1384]	60.0 [1524]	67.5 [1715]
Door width	23.19 [589]	23.19 [589]	26.38 [670]	26.38 [670]	29.8 [757]	29.8 [757]	29.8 [757]
Door hinge *	2 [51]	2 [51]	2 [51]	2 [51]	2 [51]	2 [51]	2 [51]
*Machine front to hinge-side door frame (when open)							

Table 3

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NOTE: Shown with spray and optional five compartment supply dispenser.

1. Supply Dispenser
2. Primary Fill Connections
3. Spray Rinse Connections
4. Steam Connection
5. Shell Vent
6. .875 Electrical
7. Chem Supply Cover
8. 1.125 Electrical
9. .875 Chem Supply Electrical
10. 1.5000 Electrical
11. Power Access Panel

Figure 4

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Machine Dimensions, in. [mm]							
	45	**65**	**85**	**105**	**130**	**160**	**200**
A	53.4 [1356]	53.4 [1356]	57.9 [1471]	57.9 [1471]	64.9 [1648]	64.9 [1648]	64.9 [1648]
B	53.0 [1346]	53.0 [1346]	57.5 [1461]	57.5 [1461]	64.5 [1638]	64.5 [1638]	54.5 [1384]
C	44.6 [1133]	44.6 [1133]	49.1 [1247]	49.1 [1247]	56.1 [1425]	56.1 [1425]	56.1 [1425]
D	47.6 [1209]	47.6 [1209]	52.2 [1326]	52.2 [1326]	56.4 [1433]	56.4 [1433]	56.4 [1433]
E*	30.7 [780]	30.7 [780]	30.8 [782]	30.8 [782]	29.5 [749]	29.5 [749]	29.5 [749]
F*	14.4 [366]	14.4 [366]	12.3 [312]	12.3 [312]	12.2 [310]	12.2 [310]	12.2 [310]
G	4.3 [109]	5.9 [150]	2.5 [64]	2.5 [64]	2.9 [74]	2.9 [74]	2.9 [74]
H	3.6 [91]	3.6 [91]	2.6 [66]	2.6 [66]	2.9 [74]	2.9 [74]	2.9 [74]
J	8.2 [208]	8.2 [208]	8.2 [208]	8.2 [208]	7.7 [196]	7.7 [196]	7.7 [196]
K	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]
L	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]
M	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]
N	7.8 [198]	7.8 [198]	8.3 [211]	8.3 [211]	8.3 [211]	8.3 [211]	8.3 [211]
P	10.4 [264]	10.4 [264]	11.4 [290]	11.4 [290]	11.4 [290]	11.4 [290]	11.4 [290]
Q	19.4 [493]	19.4 [493]	22.4 [569]	22.4 [569]	25.4 [645]	25.4 [645]	25.4 [645]
R	20.5 [521]	20.5 [521]	23.5 [597]	23.5 [597]	26.5 [673]	26.5 [673]	26.5 [673]
S	21.9 [556]	21.9 [556]	27.9 [709]	27.9 [709]	33.9 [861]	33.9 [861]	33.9 [861]
T	28.8 [732]	28.8 [732]	34.8 [884]	34.8 [884]	40.8 [1086]	40.8 [1086]	40.8 [1086]
U	51.2 [1300]	51.2 [1300]	56.1 [1425]	56.1 [1425]	63.1 [1603]	63.1 [1603]	63.1 [1603]
V	53.0 [1346]	53.0 [1346]	57.8 [1468]	57.8 [1468]	64.8 [1646]	64.8 [1646]	64.8 [1646]
W	54.7 [1389]	54.7 [1389]	59.6 [1514]	59.6 [1514]	66.6 [1692]	66.6 [1692]	66.6 [1692]
X	55.4 [1407]	55.4 [1407]	53.7 [1364]	60.0 [1524]	67.0 [1702]	67.0 [1702]	67.0 [1702]
Y	60.6 [1539]	60.6 [1539]	65.2 [1656]	65.2 [1656]	72.2 [1834]	72.2 [1834]	72.2 [1834]
Z	61.94 [1573]	61.94 [1573]	66.59 [1691]	66.59 [1691]	73.56 [1868]	73.56 [1868]	73.56 [1868]
*Dual Drain only used on 85-200 D3 and D4 models							

Table 4

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Washer-Extractors

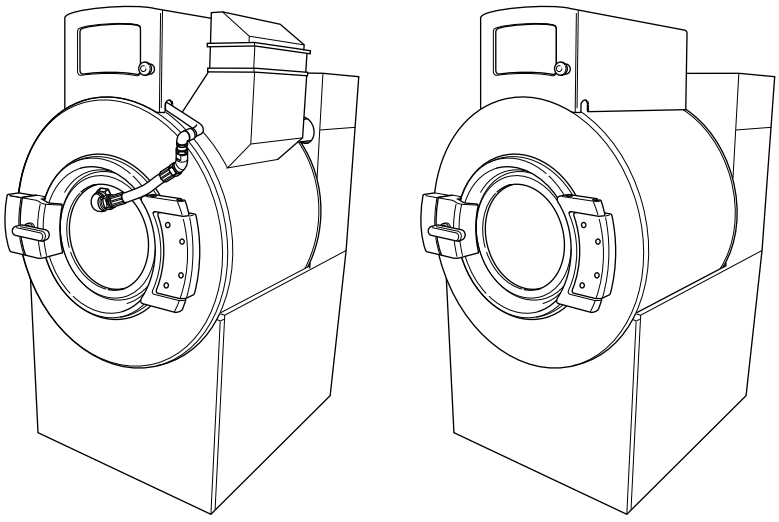
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Pocket Hardmount
Design 5

Refer to Page 9 for Model Identification

CE

Installation/Operation/Maintenance



PHM1430C_SVG

Original Instructions
Keep These Instructions for Future Reference.
CAUTION: Read the instructions before using the machine.
(If this machine changes ownership, this manual must accompany machine.)

Alliance™ Laundry Systems

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Models with Wireless Board Installed

This device is granted for use in Mobile only configurations in which the antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all person and not be co-located with any other transmitters except in accordance with FCC and Industry Canada multi-transmitter product procedures.



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Safety Information

Explanation of Safety Messages

Precautionary statements ("DANGER," "WARNING," and "CAUTION"), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the EARTH/GROUND instructions in the INSTALLATION manual for the proper earth/ground connection of the washer. All connections for water, drain, electrical power and earth/ground must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the washer where it will be exposed to water and/or weather.
- To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
- To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
- DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
- Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
- Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or

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chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].

- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
- Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
- DANGER: Before inspecting or servicing machine, power supply must be turned OFF. The servicer needs to wait for at least 5 minutes after turning the power OFF and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering OFF. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. ALWAYS disconnect the washer from electrical, power and water supplies before attempting any service.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury, property damage, and/or equipment damage, and will void the warranty.

W820

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

WARNING

Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.

W703

NOTE: All appliances are produced according the EMC-directive (Electro-Magnetic-Compatibility). They can be used in restricted surroundings only (comply minimally with class A requirements). For safety reasons there must be kept the necessary precaution distances with sensitive electrical or electronic device(s). These machines are not intended for domestic use by private consumers in the home environment.

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Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

Machines referred to by model in this manual are intended to be used by the general public in applications such as:

- staff areas in shops, offices, kitchens and other working environments
- by clients in hotels, motels and other residential type environments
- areas for communal use in blocks of flats or in launderettes
- any other similar applications

Installation of these machines must fully conform to the instructions contained in this manual.

The following maintenance checks must be performed daily:

1. Verify that all warning labels are present and legible, replace as necessary.
2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start.
   b. Close the door without locking it and start the machine. The machine should not start.
   c. Attempt to open the door while a cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, disconnect power and call a service technician.

3. Do not attempt to operate the machine if any of the following conditions are present:
   a. The door does not remain securely locked during the entire cycle.
   b. Excessively high water level is evident.
   c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

WARNING

Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

W728

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Introduction

Model Identification

Information in this manual is applicable to these models:

45 Pound [20.4 Kg] Models					
UWG045D3	UWH045D3	UWJ045D3	UWK045D3	UWT045D3	UWU045D3
UWG045D4	UWH045D4	UWJ045D4	UWK045D4	UWT045D4	UWU045D4
UWG045N1	UWH045N1	UWJ045N1	UWK045N1	UWT045N1	UWU045N1
UWG045N2	UWH045N2	UWJ045N2	UWK045N2	UWT045N2	UWU045N2

65 Pound [29.5 Kg] Models					
UWG065D3	UWH065D3	UWJ065D3	UWK065D3	UWT065D3	UWU065D3
UWG065D4	UWH065D4	UWJ065D4	UWK065D4	UWT065D4	UWU065D4
UWG065N1	UWH065N1	UWJ065N1	UWK065N1	UWT065N1	UWU065N1
UWG065N2	UWH065N2	UWJ065N2	UWK065N2	UWT065N2	UWU065N2

85 Pound [38.6 Kg] Models					
UWG085D3	UWH085D3	UWJ085D3	UWK085D3	UWT085D3	UWU085D3
UWG085D4	UWH085D4	UWJ085D4	UWK085D4	UWT085D4	UWU085D4
UWG085N1	UWH085N1	UWJ085N1	UWK085N1	UWT085N1	UWU085N1
UWG085N2	UWH085N2	UWJ085N2	UWK085N2	UWT085N2	UWU085N2

105 Pound [47.6 Kg] Models					
UWG105D3	UWH105D3	UWJ105D3	UWK105D3	UWT105D3	UWU105D3
UWG105D4	UWH105D4	UWJ105D4	UWK105D4	UWT105D4	UWU105D4
UWG105N1	UWH105N1	UWJ105N1	UWK105N1	UWT105N1	UWU105N1
UWG105N2	UWH105N2	UWJ105N2	UWK105N2	UWT105N2	UWU105N2

130 Pound [59 Kg] Models					
UWG130D3	UWH130D3	UWJ130D3	UWK130D3	UWT130D3	UWU130D3
UWG130D4	UWH130D4	UWJ130D4	UWK130D4	UWT130D4	UWU130D4
UWG130N1	UWH130N1	UWJ130N1	UWK130N1	UWT130N1	UWU130N1
UWG130N2	UWH130N2	UWJ130N2	UWK130N2	UWT130N2	UWU130N2

160 Pound [72.6 Kg] Models					
UWG160D3	UWH160D3	UWJ160D3	UWK160D3	UWT160D3	UWU160D3
UWG160D4	UWH160D4	UWJ160D4	UWK160D4	UWT160D4	UWU160D4

200 Pound [90.7 Kg] Models					
UWG200D3	UWH200D3	UWJ200D3	UWK200D3	UWT200D3	UWU200D3
UWG200D4	UWH200D4	UWJ200D4	UWK200D4	UWT200D4	UWU200D4

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Delivery Inspection

Upon delivery, visually inspect crate, protective cover, and unit for any visible shipping damage. If signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

Serial Plate Location

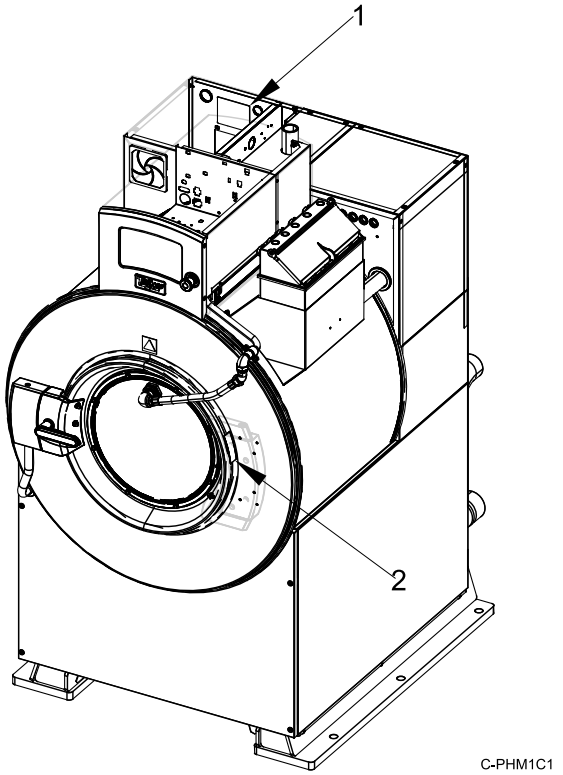
The serial plate is located on the rear panel and inside the door of the machine.

The serial plate is located on the rear panel and inside the door of the machine and is programmed in the control. To access the Machine ID Menu through the control:

1. Press the keypad to enter *System Menu*.
2. Scroll to highlight Diagnostics and press the keypad to enter *Diagnostics Menu*.
3. Scroll to highlight Machine ID and press the keypad to enter *Machine ID Menu*.

Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* .

Model Example of Serial Plate Location



1. Serial Plate on Panel
2. Serial Plate on Door Frame

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Alliance Laundry Systems
Shepard Street
P.O. Box 990
Ripon, WI 54971-0990
U.S.A.
www.alliancelaundry.com
Phone: +1 (920) 748-3121 Ripon, Wisconsin

Manufacturing Date

The manufacturing date for your unit can be found on the serial number. The first two digits indicate the year. The third and fourth digits indicate the month. For example, a unit with serial number 1505000001 was manufactured in May 2015.

EAC

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Specifications and Dimensions

Specifications	45	65	85	105	130	160	200
Overall Dimensions							
Overall width, in. [mm]	34.1 [867]	34.1 [867]	40.1 [1019]	40.1 [1019]	46.1 [1171]	46.1 [1171]	46.1 [1171]
Overall height, in. [mm]	64.4 [1637]	64.4 [1637]	69.1 [1755]	69.1 [1755]	76.1 [1932]	76.1 [1932]	76.1 [1171]
Overall depth, in. [mm]	45.3 [1151]	51.1 [1298]	51.2 [1300]	56.2 [1427]	54.5 [1384]	60.0 [1524]	67.5 [1715]
Weight and Shipping Information							
Net weight, lbs. [kg]	1080 [490]	1110 [499]	1670 [757]	1700 [771]	2040 [925]	2070 [939]	2160 [980]
Standard shipping weight, lbs. [kg]	1120 [508]	1150 [522]	1720 [780]	1750 [794]	2100 [953]	2130 [966]	2220 [1007]
Standard shipping volume, ft^3 [m^3]	75 [2]	75 [2]	107 [3]	107 [3]	139 [4]	139 [4]	157 [4.4]
Standard shipping dimensions (WxDxH), in. [mm]	37.2 x 53.8 x 65 [945 x 1370 x 1650]	37.2 x 53.8 x 65 [945 x 1370 x 1650]	43.2 x 61.8 x 69.4 [1097 x 1570 x 1763]	43.2 x 61.8 x 69.4 [1097 x 1570 x 1763]	49.2 x 64.8 x 76.4 [1250 x 1646 x 1941]	49.2 x 64.8 x 76.4 [1250 x 1646 x 1941]	49.2 x 72.3 x 76.4 [1250 x 1836 x 1941]
Slat crate shipping weight, lbs. [kg]	1250 [567]	1280 [581]	1870 [848]	1900 [862]	2260 [1025]	2290 [1039]	2390 [1084]
Slat crate shipping volume, ft^3 [m^3]	97 [3]	97 [3]	158 [4.5]	158 [4.5]	186 [5.3]	186 [5.3]	207 [5.9]
Slat crate shipping dimensions (WxDxH), in. [mm]	41.7 x 56.8 x 70.8 [1060 x 1440 x 1800]	41.7 x 56.8 x 70.8 [1060 x 1440 x 1800]	47.7 x 64.8 x 88.3 [1212 x 1646 x 2243]	47.7 x 64.8 x 88.3 [1212 x 1646 x 2243]	53.7 x 67.8 x 88.3 [1364 x 1722 x 1915]	53.7 x 67.8 x 88.3 [1364 x 1722 x 1915]	53.7 x 75.3 x 88.3 [1364 x 1913 x 2243]
Wash Cylinder Information							
Cylinder diameter, in. [mm]	31.0 [787]	31.0 [787]	36.0 [914]	36.0 [914]	42.0 [1067]	42.0 [1067]	42.0 [1067]
Cylinder depth, in. [mm]	16.6 [4222]	22.1 [561]	22.0 [559]	27.0 [686]	24.5 [622]	30.0 [762]	37.5 [953]
Cylinder volume, ft^3 [l]	7.3 [185]	9.7 [246]	13.0 [368]	15.9 [450]	19.6 [555]	24.1 [682]	30.1 [852]
Cylinder capacity, lbs. [kg]	45 [20.4]	65 [29.5]	85 [38.6]	105 [47.6]	130 [59]	160 [72.6]	200 [90.7]
Perforation size, in. [mm]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]	0.188 [4.8]
Perforation open area, %	21.3	21.3	23.0	23.4	27.4	27.9	27.3
Door Opening Information							
Door opening size, in. [mm]	17.8 [452]	17.8 [452]	21.0 [533]	21.0 [533]	24.8 [630]	24.8 [630]	24.8 [630]
Height of door bottom above floor, in. [mm]	28.8 [732]	28.8 [732]	28.8 [732]	28.8 [732]	30.5 [775]	30.5 [775]	30.5 [775]

Table 1 *continues...*

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Specifications	45	65	85	105	130	160	200
Power Consumption							
Average power used per cycle, kW-hr. (Non-heat models)	0.30	0.35	0.45	0.52	0.64	0.75	0.80
Estimated Building Heat Load							
HVAC load	Use 15% of total energy used per cycle.						
Drive Train Information							
Number of motors in. drive train	1	1	1	1	1	1	1
Drive motor power, hp [kW]	5.0 [3.7]	5.0 [3.7]	7.5 [5.6]	7.5 [5.6]	10 [7.5]	10 [7.5]	10 [7.5]
Cylinder Speeds							
1/2 Wash/reverse, RPM [G]	30 [0.4]	30 [0.4]	28 [0.4]	28 [0.4]	26 [0.4]	26 [0.4]	26 [0.4]
Wash/reverse, RPM [G]	42 [0.78]	42 [0.78]	39 [0.78]	39 [0.78]	36 [0.77]	36 [0.77]	36 [0.77]
Distribution, RPM [G]	75 [2.5]	75 [2.5]	70 [2.5]	70 [2.5]	65 [2.5]	65 [2.5]	65 [2.5]
Very low extract, RPM [G]	248 [27]	248 [27]	230 [27]	230 [27]	213 [27]	213 [27]	213 [27]
Low extract, RPM [G]	477 [100] (L-Speed)*	477 [100] (L-Speed)*	443 [100]	443 [100]	410 [100]	410 [100]	366 [80]
Medium extract, RPM [G]	674 [200] (M-Speed)*	674 [200] (M-Speed)*	542 [150]	542 [150]	502 [150]	502 [150]	410 [100]
High extract, RPM [G]	754 [250]	754 [250]	626 [200] (M-Speed)*	626 [200] (M-Speed)*	579 [200] (M-Speed)*	579 [200]	458 [125]
Very high extract, RPM [G]	826 [300]	826 [300]	700 [250]	700 [250]	648 [250]	648 [250]	502 [150]
Ultra High extract, RPM [G]	954 [400] (V-Speed)*	954 [400] (V-Speed)*	766 [300] (V-Speed)*	766 [300] (V-Speed)*	710 [300] (V-Speed)*	710 [300] (V-Speed)*	579 [200] (M-Speed)*
*Maximum extract speed, depending on model. Refer to the L, M or V in the 10th digit of the model number.							
Balance Detection							
Stability switch installed	STD	STD	STD	STD	STD	STD	STD
Direct Steam Heating (Optional)							
Steam inlet connection size, in. (NPT)	1/2	1/2	1/2	1/2	3/4	3/4	3/4
Number of steam inlets	1	1	1	1	1	1	1
Maximum pressure, psi [kPa]	85 [570]	85 [570]	85 [570]	85 [570]	85 [570]	85 [570]	85 [570]
Required pressure, (min. - max. psi [kPa])	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]

Table 1 *continues...*

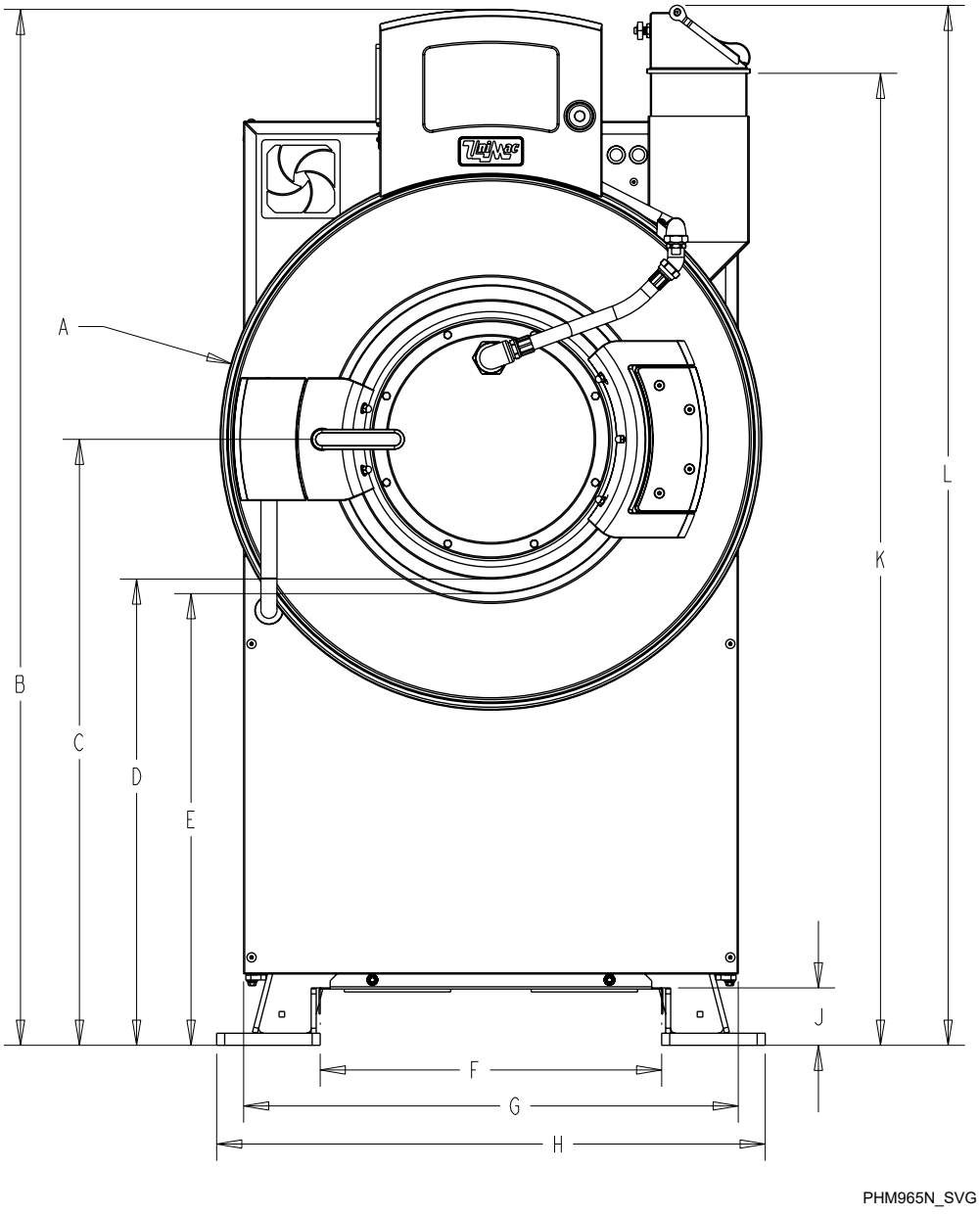
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Specifications		45	65	85	105	130	160	200
Steam required to raise bath temperature, 10°F, lbs. [10°C, kg]	LOW	2.5 [1.1]	3.3 [1.5]	4.6 [2.1]	5.7 [2.6)]	6.7 [3.0]	8.3 [3.8]	10.4 [4.6]
	MED	2.7 [1.2]	3.7 [1.7]	5.2 [2.4]	6.5 [2.9]	7.8 [3.5]	9.5 [4.3]	11.9 [5.2]
	HIGH	3.1 [1.4]	4.1 [1.9]	6.1 [2.8]	7.6 [3.4]	9.1 [4.1]	11.1 [5.0]	13.9 [6.1]
Average consumption per cycle, BHP [kgf m]		1.6 [122]	2.1 [160]	3.1 [236]	3.8 [289]	4.6 [350]	5.8 [441]	7.25 [551]
Electrical Heating (Optional)								
Total electrical heating capacity, kW	200V	19.1	19.1	28.6	28.6	N/A	N/A	N/A
	240V	27.4	27.4	41.2	41.2	N/A	N/A	N/A
	380V	17.2	17.2	17.2	17.2	34.4	34.4	34.4
	415V	20.5	20.5	20.5	20.5	41.0	41.0	41.0
	480V	27.4	27.4	27.4	27.4	54.8	54.8	54.8
Number of electrical heating elements		6/6	6/6	9/6	9/6	12	12	12
Electrical heating element size, kW		4.2	4.2	4.2	4.2	4.2	4.2	4.2
Time required to raise bath temperature, minutes per 10°F [5.5°C]	LOW	1.562	1.633	1.685	1.997	1.927	2.215	2.471
	MED	1.718	1.896	1.874	2.168	2.015	2.375	2.676
	HIGH	1.739	2.239	2.095	2.471	2.272	2.675	2.860
Noise Emission								
dBA	Max Extract	77	77	78	78	80	80	75
	Med Extract	69	69	70	70	75	75	68
	Agitate	64	64	66	66	66	66	66
N/A = Not Applicable								

Table 1

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Machine Dimensions



NOTE: Shown with spray and optional five compartment supply dispenser.

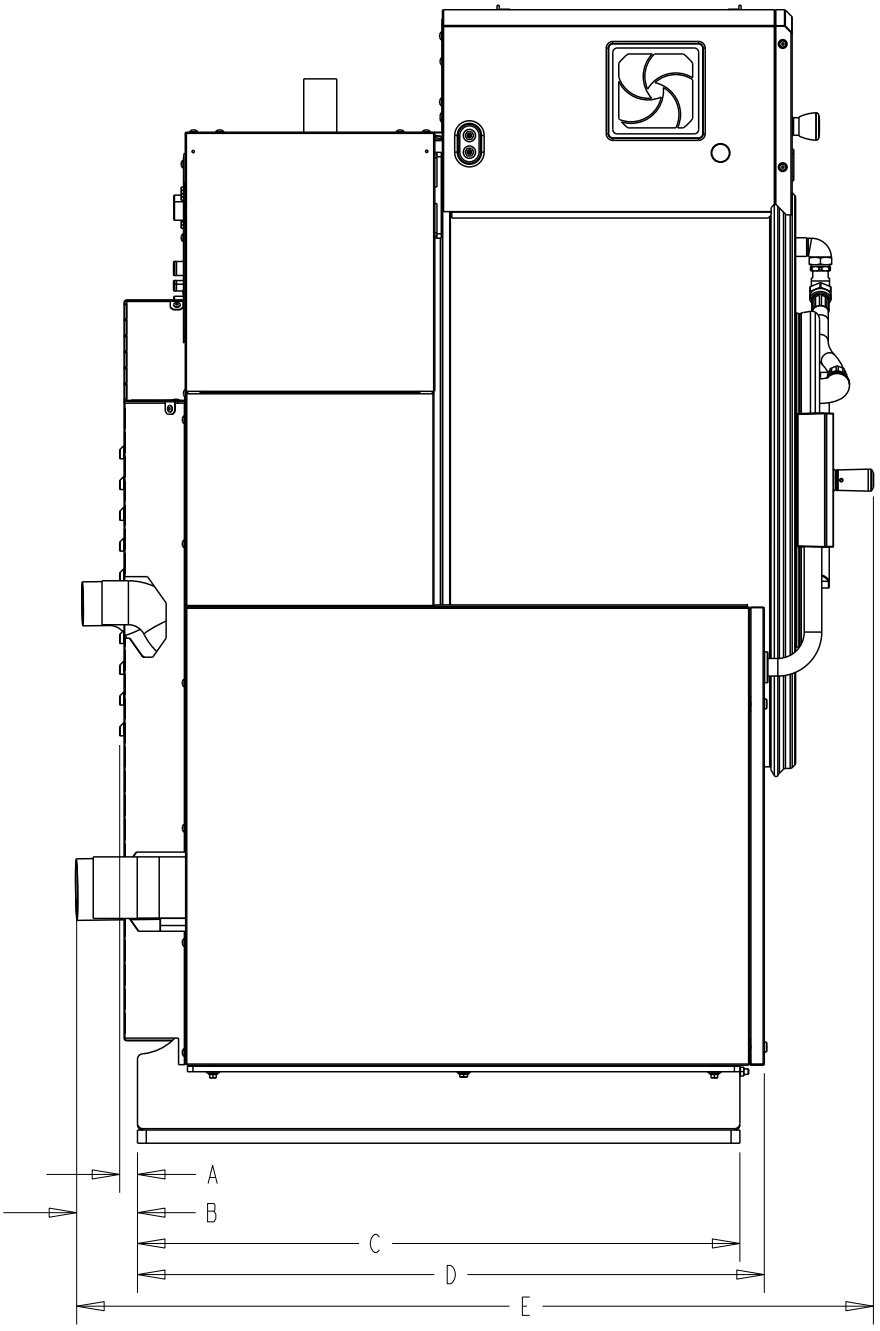
Figure 2

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Machine Dimensions, in. [mm]							
	45	**65**	**85**	**105**	**130**	**160**	**200**
A	33.7 [856]	33.7 [856]	39.4 [1001]	39.4 [1001]	45.7 [1161]	45.7 [1161]	45.7 [1161]
B	64.4 [1636]	64.4 [1636]	69.1 [1755]	69.1 [1755]	76.1 [1933]	76.1 [1933]	76.1 [1933]
C	37.7 [958]	37.7 [958]	39.3 [998]	39.3 [998]	42.9 [1090]	42.9 [1090]	42.9 [1090]
D	28.8 [732]	28.8 [732]	28.8 [732]	28.8 [732]	30.5 [775]	30.5 [775]	30.5 [775]
E	21.4 [544]	21.4 [544]	28.2 [716]	28.2 [716]	29.8 [757]	29.8 [757]	29.8 [757]
F	21.2 [538]	21.2 [538]	24.2 [615]	24.2 [615]	31.2 [792]	30.2 [767]	30.02 [767]
G	30.8 [782]	30.8 [782]	36.8 [935]	36.8 [935]	42.8 [1087]	42.8 [1087]	42.8 [1087]
H	34.1 [866]	34.1 [866]	40.1 [1019]	40.1 [1019]	46.1 [1171]	46.1 [1171]	46.1 [1171]
J	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]	3.8 [97]
K	60.7 [1542]	60.7 [1542]	63.6 [1615]	63.6 [1615]	68.7 [1745]	68.7 [1745]	68.7 [1745]
L	64.7 [1643]	64.7 [1643]	67.6 [1717]	67.6 [1717]	72.6 [1844]	72.6 [1844]	72.6 [1844]

Table 2

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NOTE: Shown with spray and optional five compartment supply dispenser.

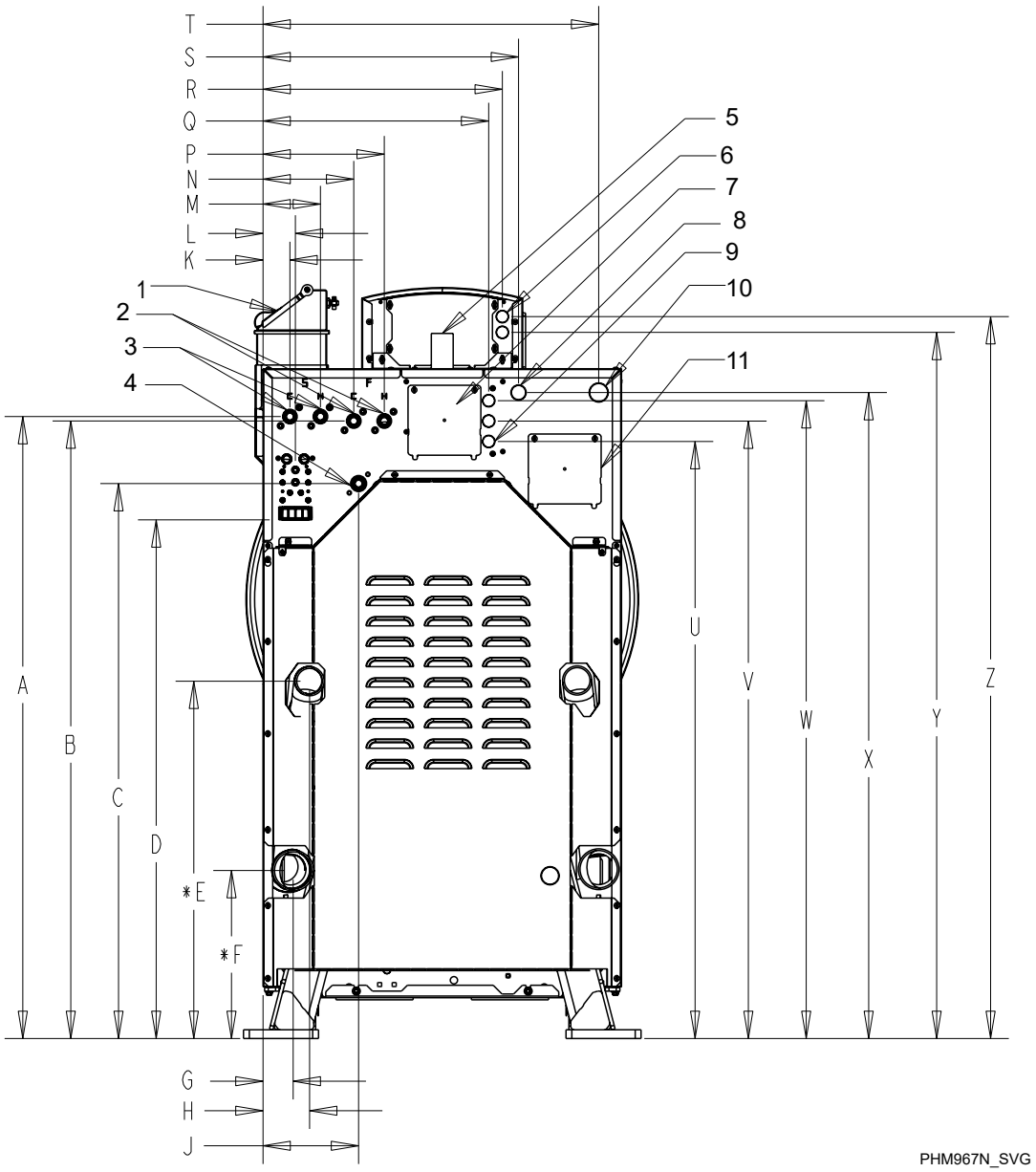
Figure 3

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Machine Dimensions, in. [mm]							
	45	**65**	**85**	**105**	**130**	**160**	**200**
A	0.8 [20]	0.8 [20]	0.6 [15]	0.6 [15]	0.9 [23]	0.9 [23]	0.9 [23]
B	3.5 [89]	3.5 [89]	1.8 [46]	1.8 [46]	2.0 [51]	2.0 [51]	2.0 [51]
C	34.2 [869]	34.2 [869]	42.2 [1072]	42.2 [1072]	44.7 [1135]	44.7 [1135]	44.7 [1135]
D	35.6 [904]	41.1 [1044]	43.5 [1105]	50.5 [1283]	46.0 [1168]	51.5 [1308]	59.0 [1499]
E	45.3 [1151]	51.1 [1298]	51.2 [1300]	56.2 [1427]	54.5 [1384]	60.0 [1524]	67.5 [1715]
Door width	23.19 [589]	23.19 [589]	26.38 [670]	26.38 [670]	29.8 [757]	29.8 [757]	29.8 [757]
Door hinge *	2 [51]	2 [51]	2 [51]	2 [51]	2 [51]	2 [51]	2 [51]
*Machine front to hinge-side door frame (when open)							

Table 3

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NOTE: Shown with spray and optional five compartment supply dispenser.

1. Supply Dispenser
2. Primary Fill Connections
3. Spray Rinse Connections
4. Steam Connection
5. Shell Vent
6. .875 Electrical
7. Chem Supply Cover
8. 1.125 Electrical
9. .875 Chem Supply Electrical
10. 1.5000 Electrical
11. Power Access Panel

Figure 4

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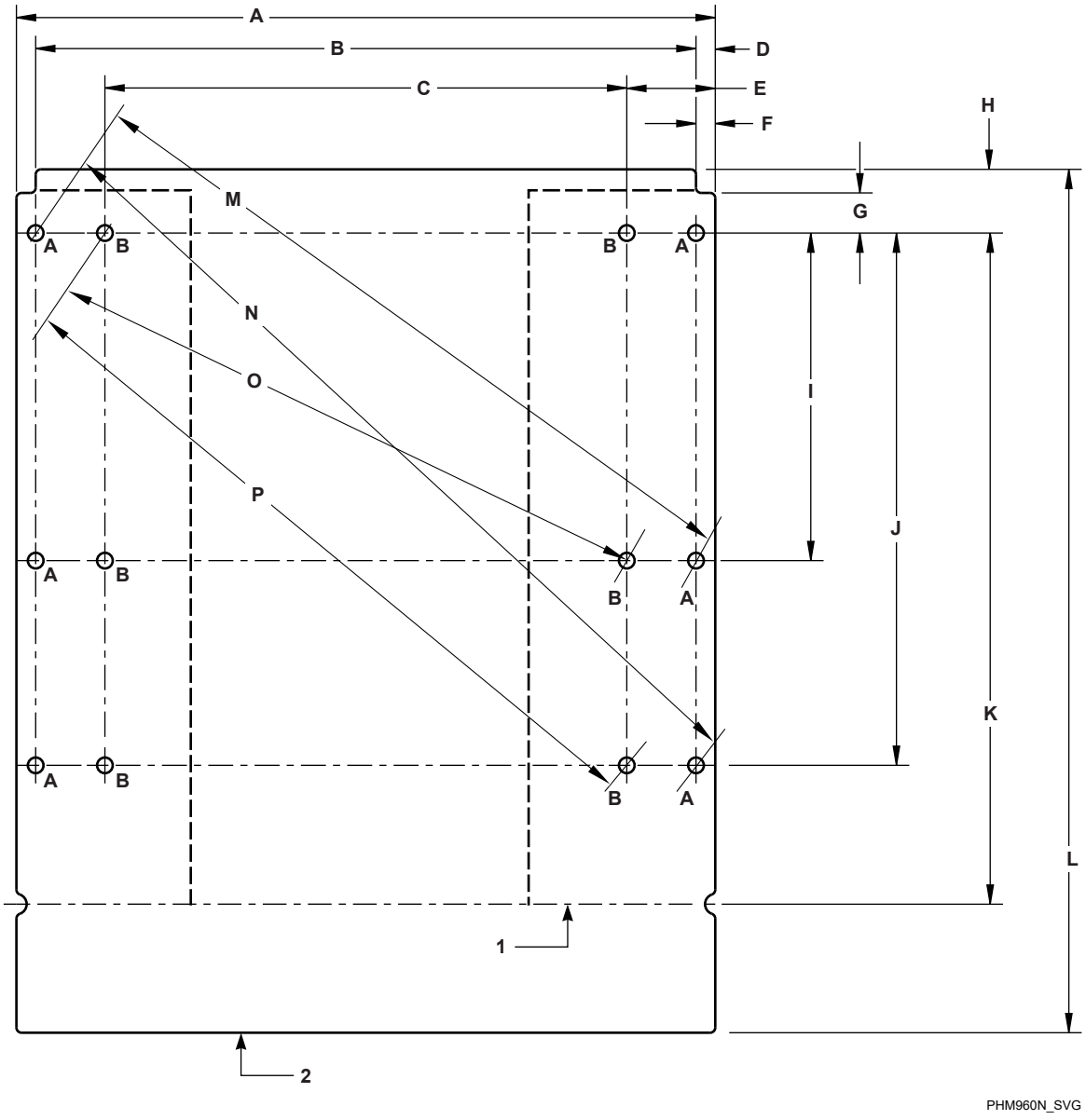
Machine Dimensions, in. [mm]							
	45	**65**	**85**	**105**	**130**	**160**	**200**
A	53.4 [1356]	53.4 [1356]	57.9 [1471]	57.9 [1471]	64.9 [1648]	64.9 [1648]	64.9 [1648]
B	53.0 [1346]	53.0 [1346]	57.5 [1461]	57.5 [1461]	64.5 [1638]	64.5 [1638]	54.5 [1384]
C	44.6 [1133]	44.6 [1133]	49.1 [1247]	49.1 [1247]	56.1 [1425]	56.1 [1425]	56.1 [1425]
D	47.6 [1209]	47.6 [1209]	52.2 [1326]	52.2 [1326]	56.4 [1433]	56.4 [1433]	56.4 [1433]
E*	30.7 [780]	30.7 [780]	30.8 [782]	30.8 [782]	29.5 [749]	29.5 [749]	29.5 [749]
F*	14.4 [366]	14.4 [366]	12.3 [312]	12.3 [312]	12.2 [310]	12.2 [310]	12.2 [310]
G	4.3 [109]	5.9 [150]	2.5 [64]	2.5 [64]	2.9 [74]	2.9 [74]	2.9 [74]
H	3.6 [91]	3.6 [91]	2.6 [66]	2.6 [66]	2.9 [74]	2.9 [74]	2.9 [74]
J	8.2 [208]	8.2 [208]	8.2 [208]	8.2 [208]	7.7 [196]	7.7 [196]	7.7 [196]
K	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]	2.3 [58]
L	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]	2.8 [71]
M	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]	4.9 [124]
N	7.8 [198]	7.8 [198]	8.3 [211]	8.3 [211]	8.3 [211]	8.3 [211]	8.3 [211]
P	10.4 [264]	10.4 [264]	11.4 [290]	11.4 [290]	11.4 [290]	11.4 [290]	11.4 [290]
Q	19.4 [493]	19.4 [493]	22.4 [569]	22.4 [569]	25.4 [645]	25.4 [645]	25.4 [645]
R	20.5 [521]	20.5 [521]	23.5 [597]	23.5 [597]	26.5 [673]	26.5 [673]	26.5 [673]
S	21.9 [556]	21.9 [556]	27.9 [709]	27.9 [709]	33.9 [861]	33.9 [861]	33.9 [861]
T	28.8 [732]	28.8 [732]	34.8 [884]	34.8 [884]	40.8 [1086]	40.8 [1086]	40.8 [1086]
U	51.2 [1300]	51.2 [1300]	56.1 [1425]	56.1 [1425]	63.1 [1603]	63.1 [1603]	63.1 [1603]
V	53.0 [1346]	53.0 [1346]	57.8 [1468]	57.8 [1468]	64.8 [1646]	64.8 [1646]	64.8 [1646]
W	54.7 [1389]	54.7 [1389]	59.6 [1514]	59.6 [1514]	66.6 [1692]	66.6 [1692]	66.6 [1692]
X	55.4 [1407]	55.4 [1407]	53.7 [1364]	60.0 [1524]	67.0 [1702]	67.0 [1702]	67.0 [1702]
Y	60.6 [1539]	60.6 [1539]	65.2 [1656]	65.2 [1656]	72.2 [1834]	72.2 [1834]	72.2 [1834]
Z	61.94 [1573]	61.94 [1573]	66.59 [1691]	66.59 [1691]	73.56 [1868]	73.56 [1868]	73.56 [1868]
*Dual Drain only used on 85-200 D3 and D4 models							

Table 4

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Mounting Bolt Hole Locations - 45 and 65 Pound Models

45 and 65 Pound [20.4 and 29.5 Kg] Models (refer to *Table 5*)



NOTE: For single machine installations or two machines installed back to back, use the outside bolt holes marked “A”. For multiple machines installed side by side with minimum clearance, use the inside bolt holes marked “B”.

1. Front of Mounting Bolt Template (45)
2. Front of Mounting Bolt Template (65)

Figure 5

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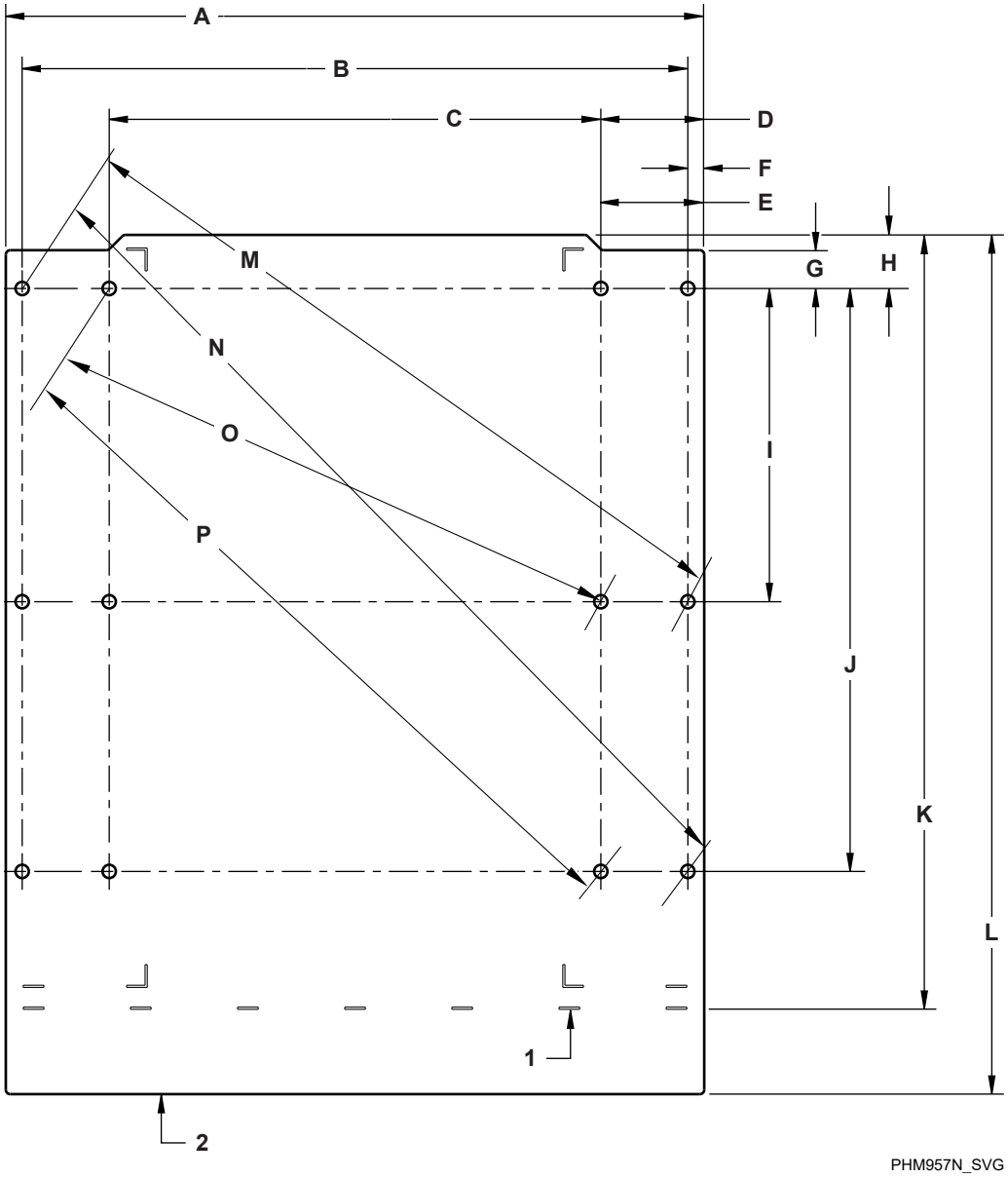
Mounting Bolt Hole Locations – 45 and 65 Pound [20.4 and 29.5 Kg] Models, in. [mm]			
		45	**65**
A		34.12 [867]	34.12 [867]
B		32.24 [819]	32.24 [819]
C		25.48 [647]	25.48 [647]
D		0.94 [24]	0.94 [24]
E		4.32 [110]	4.32 [110]
F		0.94 [24]	0.94 [24]
G		1.96 [50]	1.96 [50]
H		3 [76]	3 [76]
I		16 [406]	16 [406]
J		26 [660]	26 [660]
K		33.67 [855]	Not Applicable
L		Not Applicable	42.17 [1071]
M	Outside	35.99 [914]	35.99 [914]
N		41.41 [1051]	41.41 [1051]
O	Inside	30.08 [764]	30.08 [764]
P		36.4 [924]	36.4 [924]

Table 5

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Mounting Bolt Hole Locations - 85 and 105 Pound Models

85 and 105 Pound [38.6 and 47.6 Kg] Models (refer to *Table 6*)



1. Front of Mounting Bolt Template (85)
2. Front of Mounting Bolt Template (105)

Figure 6

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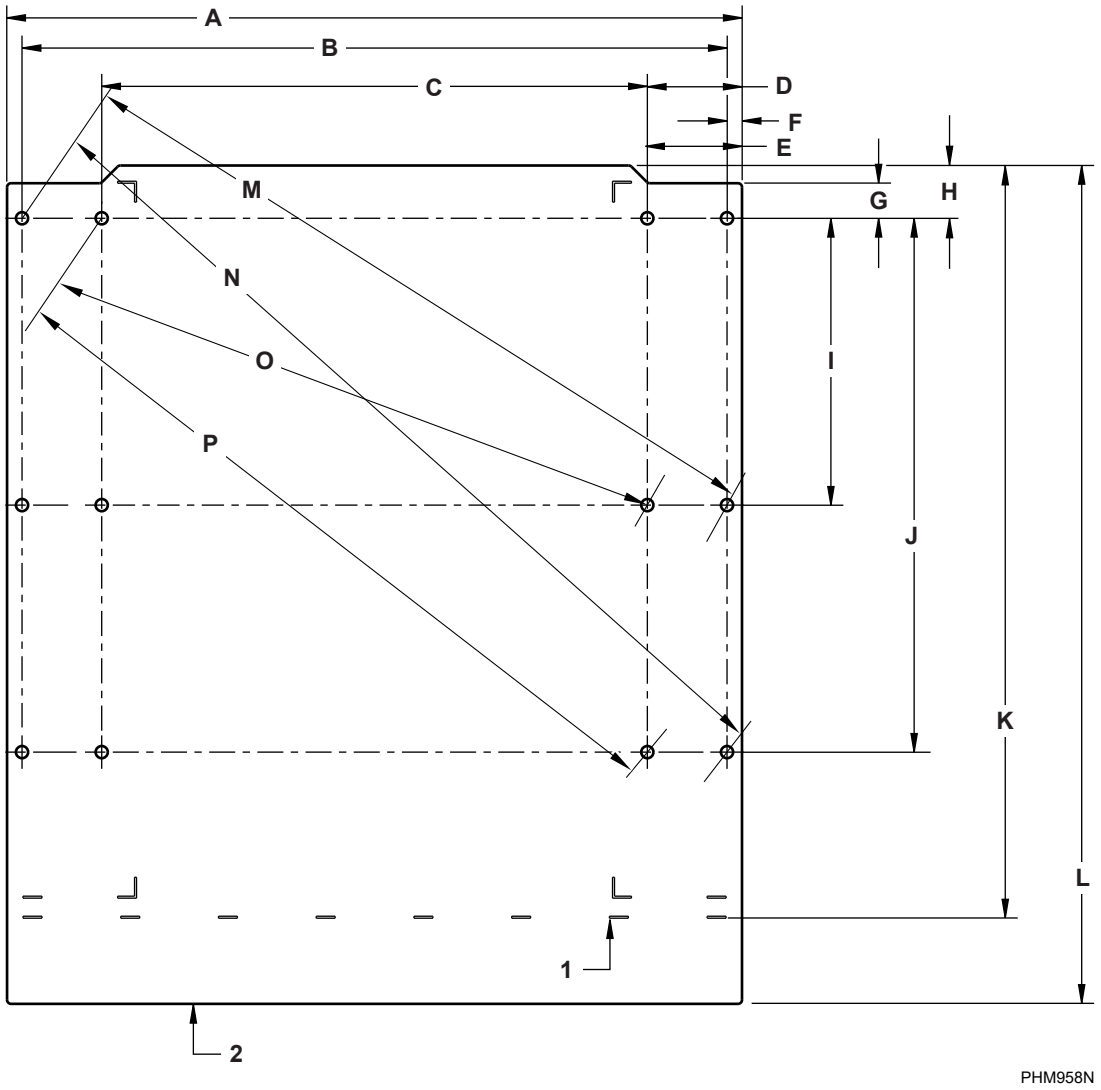
Mounting Bolt Hole Locations – 85 and 105 Pound [38.6 and 47.6 Kg] Models, in. [mm]			
		85	**105**
A		40.12 [1019]	40.12 [1019]
B		38.24 [971]	38.24 [971]
C		28.24 [717]	28.24 [717]
D		5.94 [151]	5.94 [151]
E		5.89 [149]	5.89 [149]
F		0.94 [24]	0.94 [24]
G		2.20 [56]	2.20 [56]
H		3.08 [78]	3.08 [78]
I		18 [457]	18 [457]
J		33.50 [851]	33.50 [851]
K		44.38 [1127]	Not Applicable
L		Not Applicable	49.38 [1254]
M	Outside	42.27 [1074]	42.27 [1074]
N		50.84 [1291]	50.84 [1291]
O	Inside	33.49 [851]	33.49 [851]
P		43.82 [1113]	43.82 [1113]

Table 6

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Mounting Bolt Hole Locations - 130-200 Pound Models

130-200 Pound [59-90.7 Kg] Models (refer to *Table 7*)



1. Front of Mounting Bolt Template (130)
2. Front of Mounting Bolt Template (160 and 200)

Figure 7

Mounting Bolt Hole Locations – 130-200 Pound [59-90.7 Kg] Models, in. [mm]		
	130	**160-200**
A	46.12 [1171]	46.12 [1171]
B	44.24 [1124]	44.24 [1124]
C	34.24 [870]	34.24 [870]

Table 7 *continues...*

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Mounting Bolt Hole Locations – 130-200 Pound [59-90.7 Kg] Models, in. [mm]			
		130	**160-200**
D		5.94 [151]	5.94 [151]
E		5.89 [150]	5.89 [150]
F		0.94 [24]	0.94 [24]
G		2.20 [56]	2.20 [56]
H		3.31 [84]	3.31 [84]
I		18 [457]	18 [457]
J		33.50 [851]	33.50 [851]
K		47.11 [1197]	Not Applicable
L		Not Applicable	52.61 [1336]
M	Outside	47.76 [1213]	47.76 [1213]
N		55.49 [1409]	55.49 [1409]
O	Inside	43.17 [1097]	43.17 [1097]
P		47.90 [1217]	47.90 [1217]

Table 7

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Installation

Foundation Options

A minimum 3500 psi (refer to rating per supplier) reinforced concrete set on a prepared bed is required for all new machine installations.

NOTE: Do not mount on metal base frames, wooden floors, tile floors, elevated floor levels, or over basements or crawl spaces because of the high extract speed and the G-forces exerted.

Thoroughness of detail must be stressed with all foundation work to ensure a stable unit installation, eliminating possibilities of excessive vibration during extract.

For new foundations a mounting bolt template is available at extra cost or use machine base if available.

The machine must be anchored to a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface.

IMPORTANT: Do not permanently support the machine on only four points with spacers. Grouting is required and spacers must be removed.

Machine Installation on Existing Floor

The existing floor slab must be reinforced concrete without voids under slab and meet depth requirements per *Table 13* . If the floor meets these requirements and an elevated pad is NOT desired, refer to *Figure 11* and proceed to *Machine Mounting and Grouting*.

If the floor does not meet these requirements and an elevated pad is NOT desired, refer to *Figure 14* and proceed to *Machine Mounting and Grouting*.

Elevated Pad Installation on Existing Floor

The existing floor slab must be 6 inches [152 mm] thick reinforced concrete without voids under slab. If the slab meets these requirements and an elevated pad is desired, refer to *Figure 13* and proceed to *Foundation and Pad Installation*.

New Foundation

If the existing floor slab does not meet the single machine foundation requirements per model and/or a new monolithic foundation is desired, refer to *Figure 12* and proceed to *Foundation and Pad Installation*.

Isolated Pad Installation

This type of installation is NOT recommended. Installer MUST consult a Structural Engineer for concrete specifications and requirements for installations that will not be tied into adjacent foundations.

IMPORTANT: The above instructions and recommendations are conservative specifications for a typical installation based on consultations with a structural engineer. Alliance Laundry Systems stands behind all installations meeting these specifications. For alternate installation specifications based on your soil type, location, building structure, unique floor geometry, machine types, and utilities, consult a structural engineer in your local area.

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Foundation and Pad Installation

A concrete pad may be constructed to elevate a machine. Care must be exercised in the design of the pad due to the force exerted by the machine during extract. This concrete pad, recommended not to exceed 8 inches [203 mm] above existing floor, must be placed, reinforced with rebar and tied to the existing floor. Refer to and *Foundation Requirements* sections for multiple machine installations.

IMPORTANT: Do NOT install a pad on top of the existing floor. The foundation and pad must be constructed and tied together as one piece.

If the existing floor is not reinforced concrete at least 12 inches [305 mm] thick, an elevated pad is desired or multiple machines are to be installed, the following steps must be performed (refer to *Foundation Requirements*):

1. Cut a hole through the existing floor that is larger on all sides than the machine base, refer to *Floor Layout and Pad Dimensions* .
2. Excavate to a depth as indicated in *Table 12* from the top of the existing floor.
3. If installing a foundation with elevated pad, prepare a form for the above-ground portion of the foundation. Verify that the top of the foundation is level. The height of the foundation pad must not exceed 8 inches [203 mm] above the existing floor.
4. Backfill with clean fill dirt.
5. Compact backfill, making sure to allow for correct concrete thickness.
6. Drill holes (refer to manufacturer's requirements for drill hole size) for the perimeter reinforcing bar at a depth of 2-1/2 inches [64 mm] into the existing floor. The reinforcing should be 12 inches [305 mm] on center each way around entire perimeter.
7. Clean out debris from each reinforcing bar hole.
8. Fill half the hole depth with acrylic adhesive.

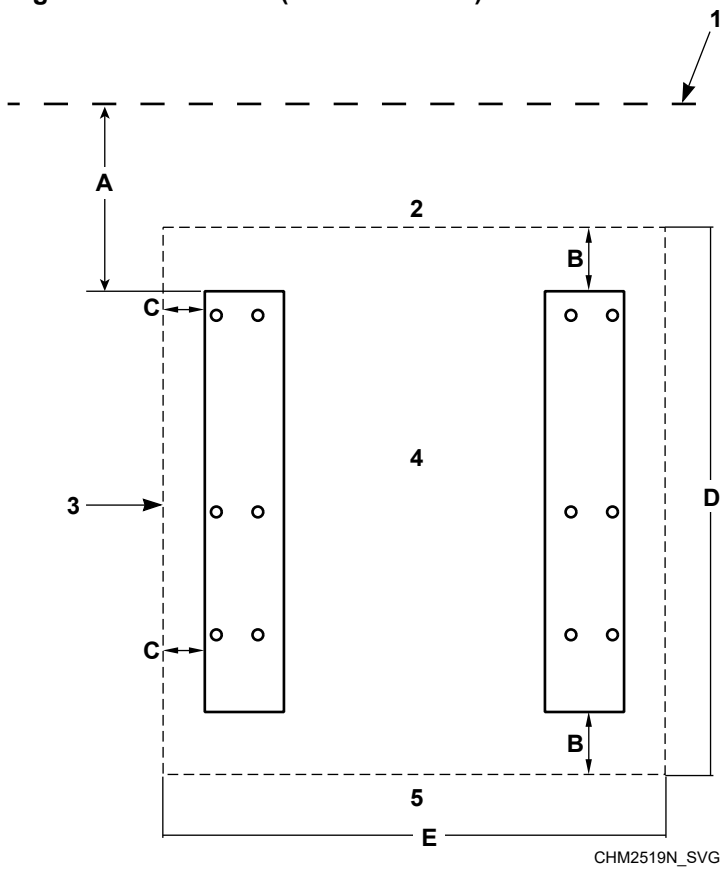
   NOTE: Procure acrylic adhesive rated for commercial-grade vibratory machine installations
9. Using #4 [60 ksi] reinforcing bar, tie new pad to existing floor making sure to tie reinforcing bars at the intersections and using proper reinforcing bar supports to hold bars at the proper depth in the pad.
10. Allow adhesive around reinforcing bar to cure properly, refer to adhesive manufacturer for recommended cure times.
11. Completely fill with 3500 psi concrete up to the existing foundation level plus any added level (maximum of 8 inch [203 mm]) for the desired elevated pad. The concrete must be poured so that the entire foundation and pad cures as one piece.
12. Allow concrete to cure, refer to manufacturer's recommended cure times.
13. Using a mounting bolt template or machine base, mark where the holes should be drilled to mount the machine.

    NOTE: As an alternate method, cast in the Grade 5 (minimum SAE rating), 3/4 inch [19 mm] anchor bolts as the concrete is poured, refer to *Figure 16* . Ensure that the bolt threads extend a minimum of 2-3/4 inches [70 mm] above floor level and a minimum of 6 inches [152 mm] of the bolt is embedded in concrete.
14. Proceed to *Machine Mounting and Grouting*.

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Floor Layout and Pad Dimensions

Dimensional Clearances - Single Machine Mount (refer to *Table 9*)



1. Wall
2. Rear Edge of Pad
3. Side Edge of Pad
4. Machine 1
5. Front Edge of Pad

Figure 8

Single Machine Mount, in. [mm]					
Description			**45-65**	**85-105**	**130-200**
A-	Distance to wall (minimum)		20 [508]	20 [508]	20 [508]
B	Distance of machine base to front/rear edge of pad (minimum)	Standard	12 [305]	12 [305]	16 [407]
		Narrow*	9 [226]	9 [226]	9 [226]
		Ultra-narrow*	6 [153]	6 [153]	6 [153]

Table 9 *continues...*

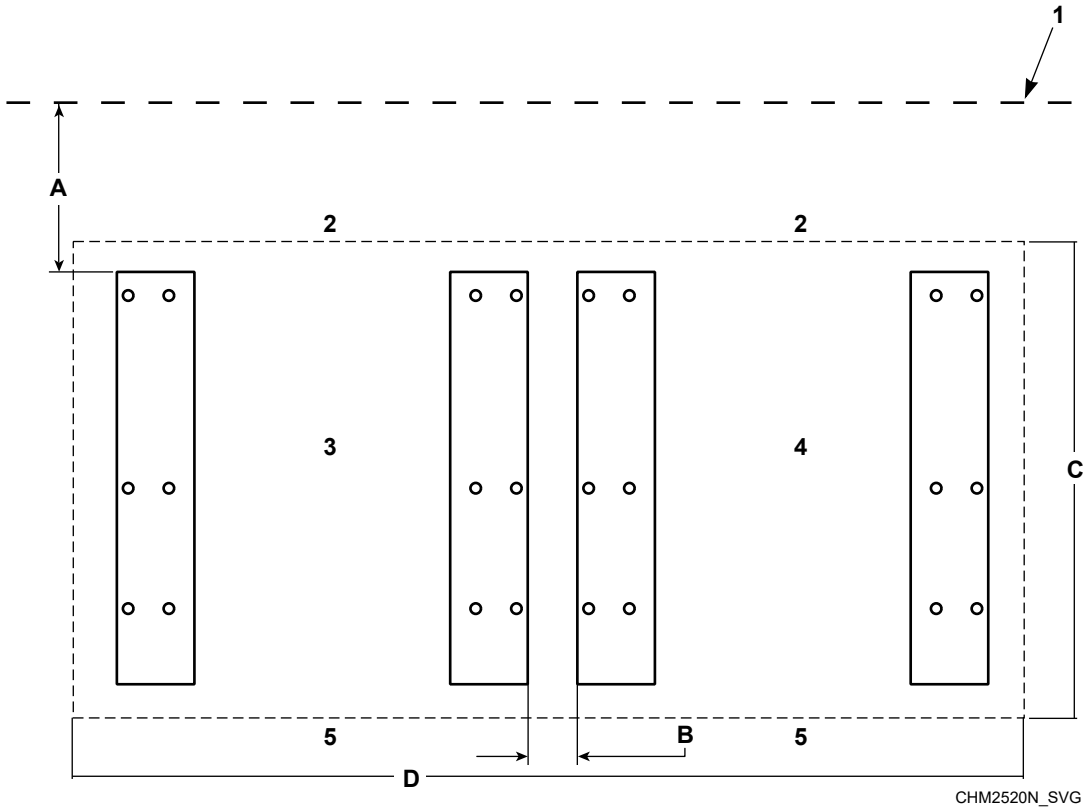
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Single Machine Mount, in. [mm]					
Description			**45-65**	**85-105**	**130-200**
C	Distance of machine base to side edge of pad (minimum)	Standard	12 [305]	12 [305]	16 [407]
		Narrow*	9 [226]	9 [226]	9 [226]
		Ultra-narrow*	6 [153]	6 [153]	6 [153]
D-	Length of pad (minimum)		60 [1524]	67.75 [1721]	80 [2032]
E-	Width of pad (minimum)		60 [1524]	65.12 [1654]	74.25 [1886]
*Requires additional concrete depth and rebar. Refer to *Table 12* and *Foundation Requirements*.					

Table 9

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Dimensional Clearances - Side by Side Mount (refer to *Table 10*)



1. Wall
2. Rear Edge of Pad
3. Machine 1
4. Machine 2
5. Front Edge of Pad

Figure 9

Side-by-Side Mount, in. [mm]					
Description			**45-65**	**85-105**	**130-200**
A-	Distance to wall (minimum)		20 [508]	20 [508]	20 [508]
B-	Adjacent unit spacing (minimum)	Standard	18 [457]	18 [457]	18 [457]
		Narrow*	12 [305]	12 [305]	12 [305]
		Ultra-narrow*	6 [153]	6 [153]	6 [153]
C-	Length of pad (minimum)	2 machines	60 [1524]	67.75 [1721]	80 [2032]
		3 machines	60 [1524]	67.75 [1721]	80 [2032]
D-	Width of pad (minimum)	2 machines	98 [2489]	123.25 [3131]	138.38 [3515]
		3 machines	138 [3505]	181.37 [4607]	202.5 [5144]

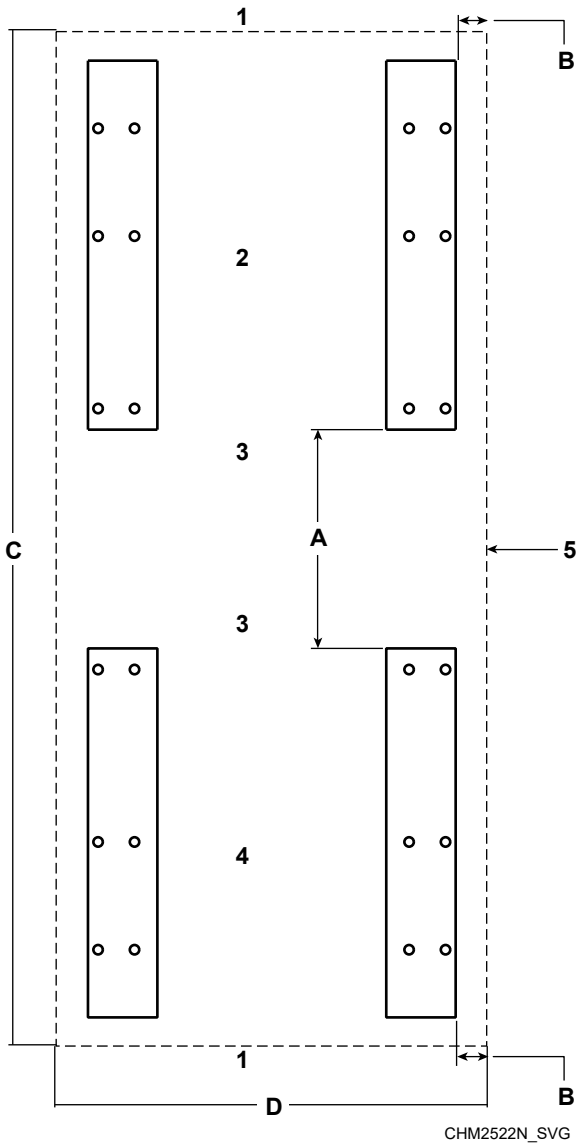
Table 10 *continues...*

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Side-by-Side Mount, in. [mm]			
Description	**45-65**	**85-105**	**130-200**
*Requires additional concrete depth and rebar. Refer to *Table 12* and *Foundation Requirements*.			

Table 10

Dimensional Clearances - Back to Back Mount (refer to *Table 11*)



1. Front-facing Edge of Pad
2. Machine 2
3. Rear of Machine
4. Machine 1
5. Side Edge of Pad or Wall

Figure 10

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Back-to-Back Mount, in. [mm]					
Description			**45-65**	**85-105**	**130-200**
A-	Adjacent rear spacing (minimum)		20 [508]	20 [508]	20 [508]
B-	Distance of machine base to edge of pad (minimum)	Standard	12 [305]	12 [305]	16 [407]
		Narrow*	9 [226]	9 [226]	9 [226]
		Ultra-narrow*	6 [153]	6 [153]	6 [153]
C-	Length of pad (minimum)		106 [2692]	135.5 [3442]	160 [4064]
D-	Width of pad (minimum)		60 [1524]	65.12 [1654]	74.25 [1886]
*Requires additional concrete depth and rebar. Refer to *Table 12* and *Foundation Requirements*.					

Table 11

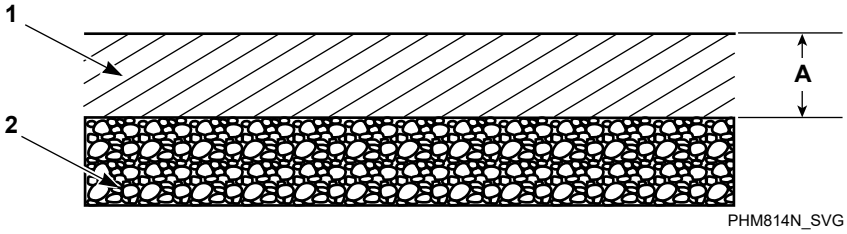
Pad Thickness Requirements, in. [mm]					
Specifications		**45**	**65**	**85-105**	**130-200**
Minimum Foundation Thickness*	L-speed	6 [152]	6 [152]	N/A	N/A
	M-speed	6 [152]	8 [203]	12 [305]	12 [305]
	V-speed	12 [305]	12 [305]	12 [305]	12 [305]
Minimum Excavation Depth	L-speed	12 [305]	12 [305]	N/A	N/A
	M-speed	12 [305]	14 [356]	18 [457]	18 [457]
	V-speed	18 [457]	18 [457]	18 [457]	18 [457]
*Installing additional concrete mass (thicker foundation) will further reduce vibration and install risk.					

Table 12

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Foundation Requirements

Existing Floor (refer to *Table 13*)



1. Existing Floor with 3500 PSI (minimum) Concrete
2. Compacted Fill (minimum 6 in. [152 mm])

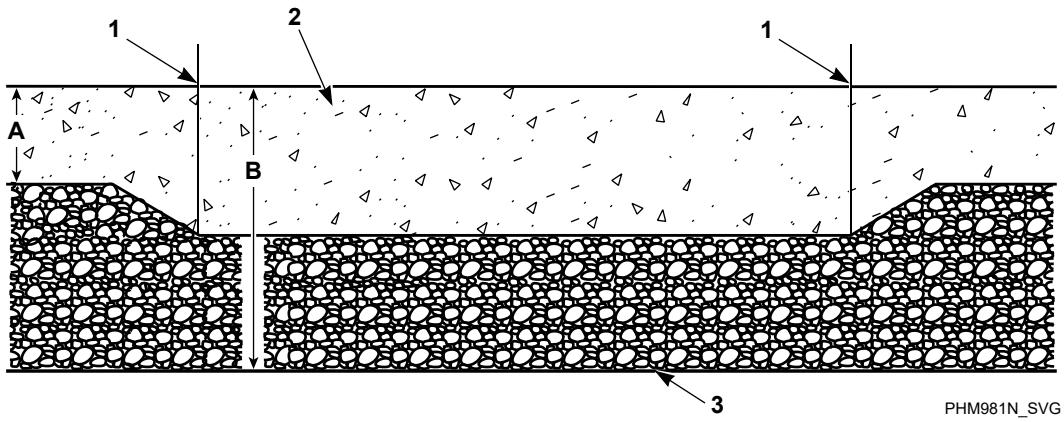
Figure 11

Existing Floor, in. [mm]							
Description			L-speed / 45 (M-speed)	65 (M-speed)	45-65 (V-speed)	85-105	130-200
A	**Required thickness of existing floor (minimum)**	Standard*	6 [152]	8 [203]	12 [305]	12 [305]	12 [305]
		Narrow*	8 [203]	10 [254]	14 [356]	14 [356]	14 [356] (Side-by-side) 18 [457] (Back-to-back)
		Ultra-narrow*	10 [254]	12 [305]	16 [406]	16 [406]	20 [508] (Side-by-side) 20 [508] (Back-to-back)
* Refer to *Floor Layout and Pad Dimensions*.							

Table 13

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New Monolithic Floor (refer to *Table 14*)



1. Edge of Pad
2. 3500 PSI (minimum) Concrete
3. Compacted Fill (minimum 6 in. [152 mm] beneath machine)

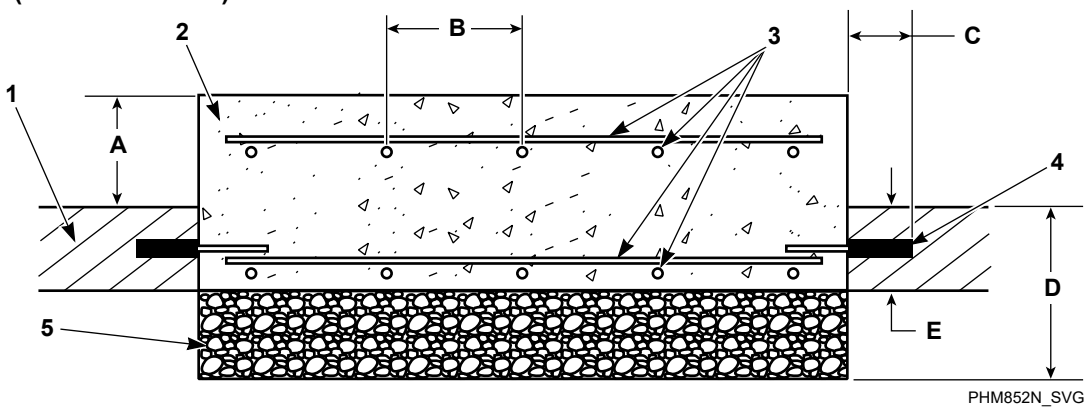
Figure 12

New Monolithic Floor, in. [mm]							
	Description		**L-speed / 45 (M-speed)**	**65 (M-speed)**	**45-65 (V-speed)**	**85-105**	**130-200**
A	**Depth of Surrounding Floor**		6 [152]	6 [152]	6 [152]	6 [152]	6 [152]
B	**Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)**	Standard*	12 [305]	14 [356]	18 [457]	18 [457]	18 [457]
		Narrow*	14 [356]	16 [406]	20 [508]	20 [508]	20 [508] (Side-by-side) 24 [610] (Back-to-back)
		Ultra-narrow*	16 [406]	18 [457]	22 [559]	22 [559]	26 [660] (Side-by-side) 26 [660] (Back-to-back)
* Refer to *Floor Layout and Pad Dimensions*.							

Table 14

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Elevated Pad (refer to *Table 15*)



1. Existing Floor
2. 3500 PSI (minimum) Concrete
3. Reinforcing Bar
4. Perimeter Reinforcing Bar
5. Compacted Fill (minimum 6 in. [152 mm])

Figure 13

Elevated Pad, in. [mm]							
	Description		**L-speed / 45 (M-speed)**	**65 (M-speed)**	**45-65 (V-speed)**	**85-105**	**130-200**
A	**Height of elevated pad above floor (maximum)**		8 [203]	8 [203]	8 [203]	8 [203]	8 [203]
B	**Distance between reinforcing bars (maximum)**	Standard*	12 [305]	12 [305]	12 [305]	12 [305]	12 [305]
		Narrow*	6 [152]	6 [152]	6 [152]	6 [152]	6 [152]
		Ultra-narrow*	6 [152]	6 [152]	6 [152]	6 [152]	6 [152]
C	**Length of reinforcing bar extending into existing Floor (minimum)**		2.5 [64]	2.5 [64]	2.5 [64]	2.5 [64]	2.5 [64]

Table 15 *continues...*

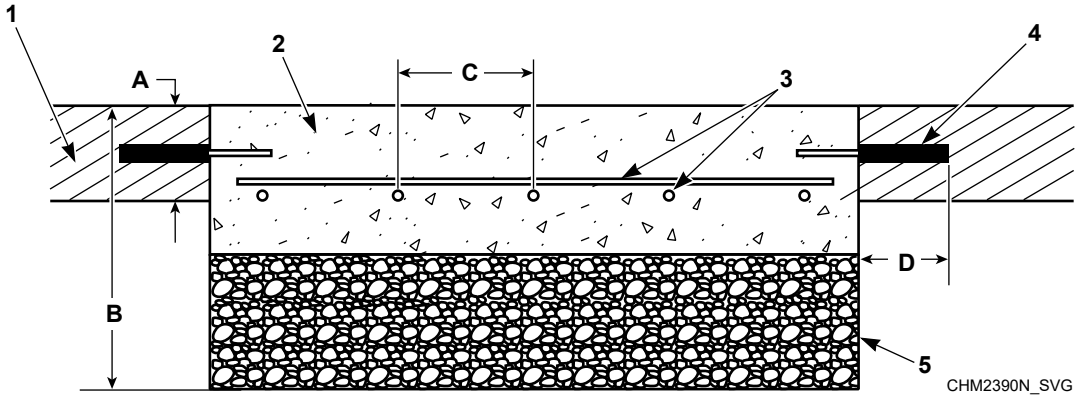
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Elevated Pad, in. [mm]							
Description			L-speed / 45 (M-speed)	65 (M-speed)	45-65 (V-speed)	85-105	130-200
D	**Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)**	Standard*	12 [305]	14 [356]	18 [457]	18 [457]	18 [457]
		Narrow*	14 [356]	16 [406]	20 [508]	20 [508]	20 [508] (Side-by-side) 24 [610] (Back-to-back)
		Ultra-narrow*	16 [406]	18 [457]	22 [559]	22 [559]	26 [660] (Side-by-side) 26 [660] (Back-to-back)
E	**Required thickness of existing floor (minimum)**		6 [152]	6 [152]	6 [152]	6 [152]	6 [152]
* Refer to *Floor Layout and Pad Dimensions*.							

Table 15

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Tie-in to Existing Floor (refer to *Table 16*)



1. Existing Floor
2. 3500 PSI (minimum) Concrete
3. Reinforcing Bar
4. Perimeter Reinforcing Bar
5. Compacted Fill (minimum 6 in. [152 mm])

Figure 14

Tie-in to Existing Floor, in. [mm]							
	Description		**L-speed / 45 (M-speed)**	**65 (M-speed)**	**45-65 (V-speed)**	**85-105**	**130-200**
A	**Required thickness of existing floor (minimum)**		6 [152]	6 [152]	6 [152]	6 [152]	6 [152]
B	**Total depth of foundation (concrete plus 6 in. [152 mm] fill)(minimum)**	Standard*	12 [305]	14 [356]	18 [457]	18 [457]	18 [457]
		Narrow*	14 [356]	16 [406]	20 [508]	20 [508]	20 [508] (Side-by-side) 24 [610] (Back-to-back)
		Ultra-narrow*	16 [406]	18 [457]	22 [559]	22 [559]	22 [559] (Side-by-side) 26 [660] (Back-to-back)
C	**Distance between reinforcing bars (maximum)**	Standard*	12 [305]	12 [305]	12 [305]	12 [305]	12 [305]
		Narrow*	6 [152]	6 [152]	6 [152]	6 [152]	6 [152]
		Ultra-narrow*	6 [152]	6 [152]	6 [152]	6 [152]	6 [152]

Table 16 *continues...*

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Tie-in to Existing Floor, in. [mm]						
Description		L-speed / 45 (M-speed)	65 (M-speed)	45-65 (V-speed)	85-105	130-200
D	**Length of reinforcing bar extending into existing floor (minimum)**	2.5 [64]	2.5 [64]	2.5 [64]	2.5 [64]	2.5 [64]
* Refer to *Floor Layout and Pad Dimensions*.						

Table 16

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Machine Mounting and Grouting

NOTE: After the concrete has cured completely and the cast-in-place method was used, refer to *Figure 16* and proceed to step 7. If acrylic adhesive anchors are desired, refer to *Figure 15* and proceed with step 1 after concrete has cured completely.

1. Refer to *Figure 15* to set the drill depth gauge.
2. Drill the holes to the set depth.
3. Use compressed air or squeeze bulb to clean out debris from each hole. Use a vacuum to remove fine dust.
4. Fill half the hole depth with an industry-accepted adhesive anchoring system.
5. Insert anchor bolt until it reaches the bottom and a minimum of 2-3/4 in. [70 mm] extends above surface and a minimum of 6 inches [152 mm] is embedded in concrete.
6. Ensure all air pockets are removed from adhesive surrounding the bolt.
7. Allow adhesive around bolt to cure completely.

   IMPORTANT: Refer to bolt manufacturer's recommended adhesive cure times.
8. Remove shipping materials and place the machine carefully over the bolts. Never attempt to lift the machine by the door handle or by pushing on the cover panels. Always insert a pry bar or other lifting device under the bottom frame of the machine to move it.
9. Raise and level the machine 1/2 inch [12.7 mm] off the floor on four corners, using spacers such as nut fasteners.

WARNING

Crush hazard. To avoid personal injury and/or property damage, do not tip the machine more than 25 degrees in any direction.

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10. Following the manufacturer's instructions, mix a good quality **non-shrinking machinery precision grout**. The grout should not be too runny or too dry and should flow into place easily. Completely fill the space between the machine base and the floor with grout to ensure a stable installation. Grout completely under frame (if bolted with inside pattern, remove front panel and back panel to gain access to all frame members). Refer to *Figure 5* . Force grout under machine base until all voids are filled.

    IMPORTANT: Minimum Grade 5, SAE rating, flat washers and minimum Grade 5, SAE rating, serrated hex flange locknuts are the recommended hardware for anchoring machine to bolts.
11. Position the flat washers and locknuts on the anchor bolts and finger-tighten to machine base.
12. Allow machine grout to set (stiffen), but not cure.
13. **Remove the spacers carefully, allowing the machine to settle into the wet grout.** Pack any remaining voids with grout.
14. After the grout is completely cured, torque the locknuts to 160 ± 16 ft.-lbs. – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.

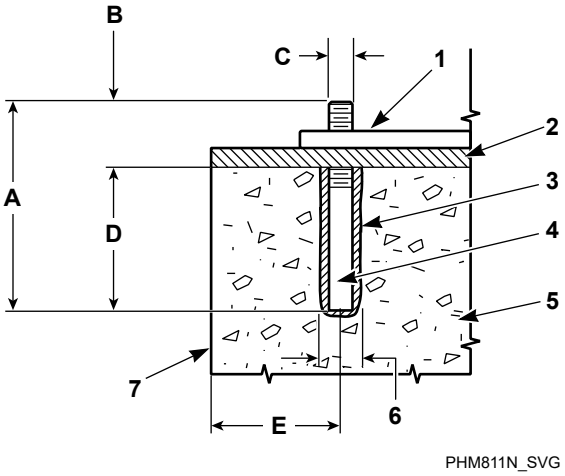
    IMPORTANT: Refer to recommended grout cure times from manufacturer before torquing locknuts.

    IMPORTANT: All torque joints must remain dry (non-lubricated).

    NOTE: Check and retighten the locknuts after five to ten days of operation and every month thereafter.

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Acrylic Adhesive Anchors (refer to *Table 17*)

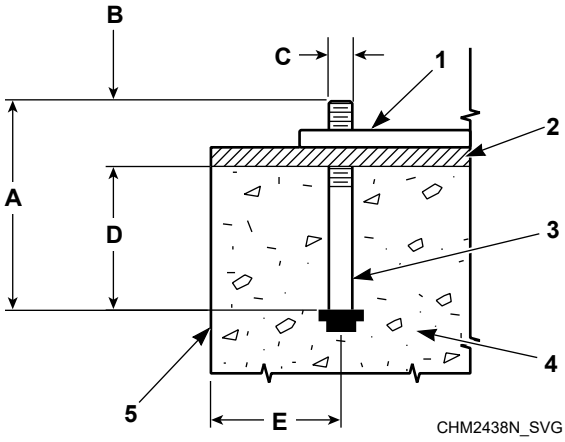


NOTE: *Available for purchase through the distributor. If not purchasing from a distributor, procure acrylic adhesive rated for commercial-grade vibratory machine installations.

1. Machine Frame Base
2. Grout 1/2 in. [13 mm]
3. Acrylic Adhesive*
4. Anchor Bolt* (minimum Grade 5 SAE rating)
5. Concrete
6. Drill Hole Size per Manufacturer Requirements
7. Edge of Pad

Figure 15

Cast-in-place Anchors (refer to *Table 17*)



1. Machine Frame Base
2. Grout
3. Anchor Bolt (minimum Grade 5 SAE rating)
4. Concrete
5. Edge of Pad

Figure 16

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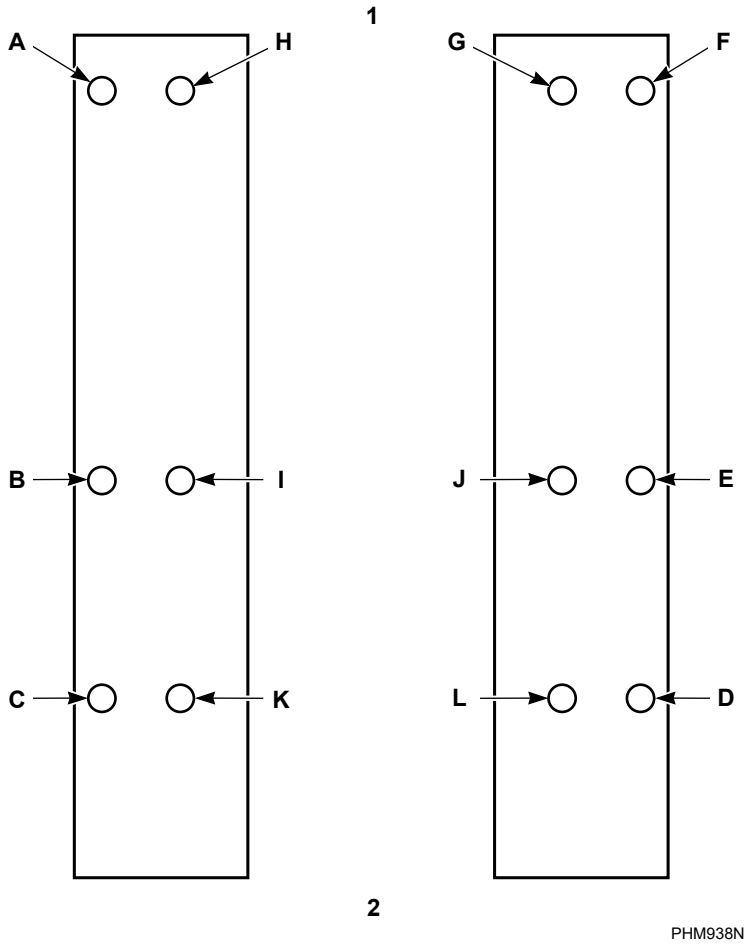
Minimum Anchoring Specifications, in. [mm]		
A	Bolt Length	8-3/4 [22]
B	Thread Extension (minimum)	2-3/4 [70]
C	Bolt Diameter	3/4 [19]
D	Embedment Depth	6 [152]
E	Distance from Bolt Center to Edge of Concrete Pad	12 [305]

Table 17

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Mounting Bolt Pattern

Refer to *Table 18* .



1. Rear of Machine
2. Front of Machine

Figure 17

Models	Required Bolts	Optional Bolts*
45-65	A-F	G-L
85-105	A-H	I-L
130-200	A-J	K-L
* Use for further reduction of vibration.		

Table 18

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Floor Load Data

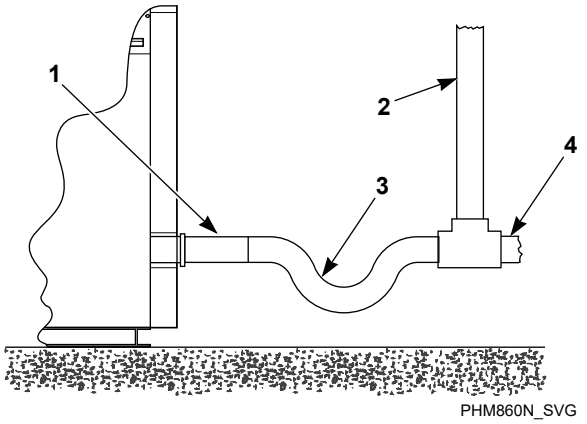
Floor Load Data								
Specifications		**45**	**65**	**85**	**105**	**130**	**160**	**200**
Static load, lb [kN]		1280 [5.7]	1350 [6.0]	1990 [8.9]	2100 [9.3]	2540 [11.3]	2680 [11.9]	2920 [13.0]
Static pressure, lb/ft^2 [kN/m^2]		158 [7.6]	167 [8.0]	170 [8.1]	179 [8.6]	178 [8.5]	187 [9.0]	204 [9.8]
Maximum dynamic load, lb [kN]		2690 [12]	2690 [12]	3300 [14.5]	3300 [14.5]	4200 [18.7]	4200 [18.7]	4200 [18.7]
Maximum dynamic pressure, lb/ft^2 [kN/m^2]	L-Speed	483 [23.1]	493 [23.6]	N/A	N/A	N/A	N/A	N/A
	M-Speed	483 [23.1]	493 [23.6]	446 [21.4]	457 [21.9]	469 [22.5]	N/A	497 [23.8]
	V-Speed	491 [23.5]	499 [23.9]	450 [21.5]	459 [22.0]	471 [22.6]	480 [23.0]	N/A
Dynamic load frequency, Hz	L-Speed	8.0	8.0	N/A	N/A	N/A	N/A	N/A
	M-Speed	11.2	11.2	9.9	9.9	9.7	N/A	9.7
	V-Speed	15.9	15.9	12.8	12.8	11.8	11.8	N/A
[1]Maximum vertical load,		3870 [17.2]	3940 [17.5]	5140 [22.9]	5210 [23.2]	6500 [28.9]	6590 [29.3]	6760 [30.1]
Maximum base moment, lb-ft [kN-m]		8470 [11.5]	8470 [11.5]	10700 [14.5]	10700 [14.5]	15000 [20.3]	15000 [20.3]	15000 [20.3]
[1] Acting in the downward direction against the floor.								

Table 19

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Drain Connection Requirements

Direct Drain System



1. Drain Pipe
2. Vent
3. Trap (if required by local code)
4. Sewer Line

Figure 18

All drain systems must be vented to prevent an air lock and to prevent siphoning.

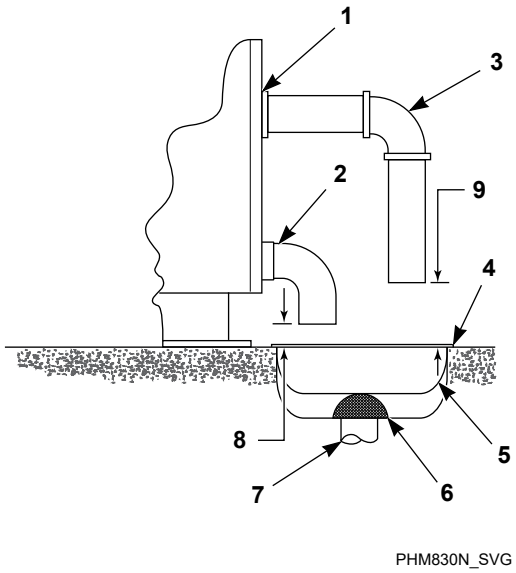
Refer to *Figure 18* .

IMPORTANT: Machines must be installed in accordance with all local codes and ordinances.

If proper drain size is not available or practical, a surge tank is required. A surge tank along with a sump pump should be used when gravity drainage is not possible.

Increasing the drain hose length, installing elbows, or causing bends will decrease drain flow rate and increase drain times, impairing machine performance.

Drain Trough System



1. Rear of Machine
2. Drain Pipe
3. Overflow Pipe (optional)
4. Steel Grate
5. Drain Trough
6. Strainer
7. Waste Line
8. 1 in. [25 mm] minimum gap
9. 3 in. [76 mm] minimum gap

Figure 19

Refer to *Table 8* for capacity-specific drain information.

NOTE: Installation of additional machines will require proportionately larger drain connections. Refer to *Table 8* .

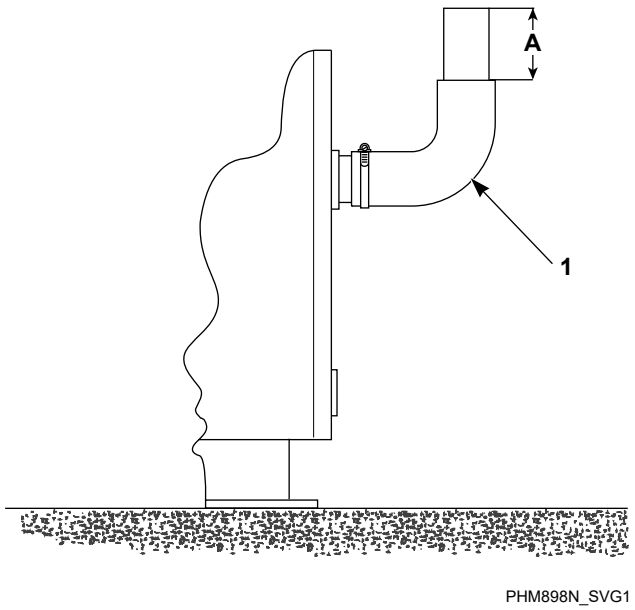
IMPORTANT: Do not block the machine overflow opening.

If water or suds flow from the machine overflow vent and the machine has been verified to be operating properly with proper water levels and correct amount of laundry chemicals, a drain line or an extension may be added to the machine overflow vent and routed to a drain trough.

1. To build a drain line, route the drain pipe from the machine overflow vent to a drain trough. As an option, the drain pipe can instead be routed straight across or down and be suspended above drain trough by at least 3 inches [76 mm].
2. To build an extension to the overflow vent, secure a section of drain pipe to the vent, facing upward, that extends no higher than the recommended height above the edge of the vent elbow. Refer to *Figure 20* and *Table 20* .
3. Secure the drain pipe with the hose clamp.

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Refer to *Table 20* .



1. Overflow Vent

Figure 20

Vent Extension (maximum), in. [mm]			
	45-65	**85-150**	**130-200**
A	4 [102]	3-1/2 [89]	8-1/4 [210]

Table 20

IMPORTANT: Do not route the machine overflow to a direct drain system.

Drain Information							
Specifications		**45**	**65**	**85**	**105**	**130**	**160-200**
Drain connection size, in. with second drain		3	3	3	3	3	3
Number of drain outlets	UniLinc	1	1	2	2	2	2
	M30	1	1	1	1	1	N/A
Drain flow capacity, gal/min. [l/min.]		55 [208]	55 [208]	120 [454]	120 [454]	140 [530]	140 [530]
Max Drain Discharge (level 30), gal [l]		55	55	120	120	140	140
Recommended drain pit size, ft^3 [l]†		5 [142]	6 [170]	8 [227]	10 [283]	12 [340]	14.5 [411]
†Sized for one machine using overflow level.							

Table 21

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Water Connection Requirements

Connections should be supplied by hot and cold water lines of at least the sizes shown in the Water Supply Line Sizing table. Installation of additional machines will require proportionately larger water lines. Refer to *Table 23* .

WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit [51° Celsius] and hot surfaces.

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Maximum water inlet temperature is 190 °Fahrenheit [88 °Celsius].

Water Supply Information

Specifications			45-65	85-105	130-200
Number of water inlets		Main fill	2	2	2
		Spray rinse (Uni-Linc)	2	2	2
Water inlet connection size, in.		Main fill	3/4	3/4	1
		Spray rinse (Uni-Linc)	3/4	3/4	3/4
End of factory supplied hose	Size, in.		3/4	3/4	1
	Thread Pitch, GHT [BSPP]		3/4 x 11-1/2 [3/4 x 14]	3/4 x 11-1/2 [3/4 x 14]	1 x 11-1/2 [1 x 14]
Required pressure (min-max), psi [bar]			30–85 [2–5.7]	30-85 [2-5.7]	30-85 [2-5.7]
Inlet flow capacity for main fill (warm fill, both inlet valves open), gal/min at 85 psi [l/min at 1232 Pa]			45 [170]	47 [178]	54 [204]
Inlet flow capacity for spray rinse (warm fill, both inlet valves open), gal/min at 85 psi [l/min at 1232 Pa]			22 [83]	22 [83]	22 [83]

Table 22

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To connect water service to machine with rubber hoses, use the following procedure:

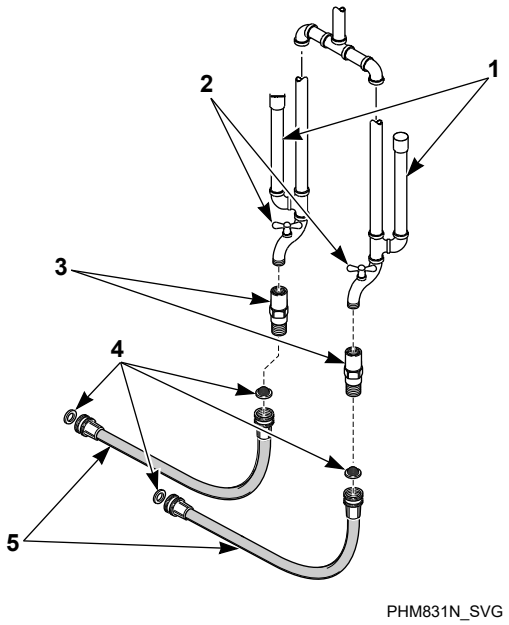
1. Before installing hoses, flush the water system for at least two minutes.
2. Check filters in the machine's inlet hoses for proper fit and cleanliness before connecting.
3. Hang the hoses in a large loop; do not allow them to kink.

If additional hose lengths are needed or using hoses other than those supplied by manufacturer, flexible hoses with screen filters are required.

Lower pressures will increase fill times.

Suitable air cushions (risers) should be installed in supply lines to prevent "hammering." Refer to *Figure 21* .

Connect machine to a backflow preventer (vacuum breaker) before connecting to the public water main in all countries where local regulations require specific water approval certificates.



1. Air Cushions (Risers)
2. Water Supply Faucets
3. Dual Check Valves
4. Filters
5. Hoses

Figure 21

Water Supply Line Sizing			
Models	Number of Machines	Supply Line Size, in.	
		Main	Hot/Cold
45-65	1	1-1/4	1
	2	2	1-1/4
	3	2	1-1/2
	4	2-1/2	2
85-105	1	1-1/2	1
	2	2	1-1/2
	3	2-1/2	2
	4	3	2

Table 23 *continues...*

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Water Supply Line Sizing			
Models	Number of Machines	Supply Line Size, in.	
		Main	Hot/Cold
130-200	1	2	1-1/4
	2	2-1/2	2
	3	3	2
	4	3-1/2	2-1/2

Table 23

Connect Inlet Hoses

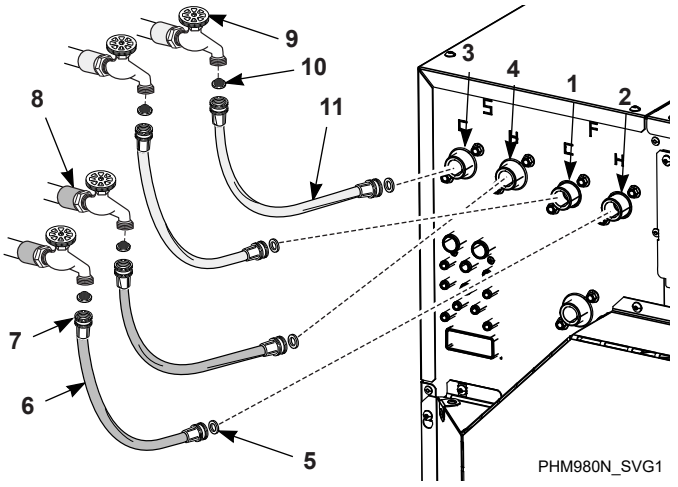
For laundries with four (4) supply faucets, use the following procedure to connect water service to a machine with hoses:

1. Before installing hoses, flush the building's water system at the machine connection valves for at least two (2) minutes.
2. Remove the four (4) plain rubber washers and four (4) filter screens from the accessories bag supplied with the machine.
3. Install one (1) plain rubber washer onto one end and one (1) filter screen into the other end of each fill hose. The screens must be facing outward toward the water supply. Refer to *Figure 22* .
4. Screw hose couplings with the filter screens onto the water supply faucets until they are finger-tight.
5. Using pliers, screw approximately 1/4 turn.
6. Screw the coupling with the plain rubber washer of one (1) of the hoses attached to a hot water connection onto the main fill valve inlet (marked "H", beneath the "F" mark). Screw the coupling with the plain rubber washer of the other hot water hose onto the spray valve inlet (marked "H", beneath the "S" mark). Tighten to finger-tight.
7. Screw the coupling with the plain rubber washer of one (1) of the hoses attached to a cold water connection onto the main fill valve inlet (marked "C", beneath the "F" mark). Screw the coupling with the plain rubber washer of the other cold water hose onto the spray valve inlet (marked "C", beneath the "S" mark). Tighten to finger-tight.
8. Using pliers, screw approximately 1/4 turn.

   IMPORTANT: DO NOT cross thread or overtighten couplings. This will cause them to leak.
9. Hang hoses in a large loop; do not allow them to kink.
10. Turn on water supply and check for leaks.
11. If leaks are found, turn off the water, unscrew hoses and reinstall them until there are no leaks.

    IMPORTANT: Turn off water supply whenever there will be an extended period of non-use.

If additional hose lengths are needed or using hoses other than those supplied by manufacturer, flexible hoses with screen filters are required.



1. Cold Water Main Fill
2. Hot Water Main Fill
3. Cold Spray Valve Inlet
4. Hot Spray Valve Inlet
5. Rubber Washer (plain)
6. Fill Hose (hot)
7. Hose Coupling
8. Hot Water Supply Faucets
9. Cold Water Supply Faucets
10. Filter Screen (screen must be facing outward, toward water supply)
11. Fill Hose (cold)

Figure 22

Connect Inlet Hoses with Y-Connectors

For laundries with two (2) supply faucets, use the following procedure to connect water service to a machine with hoses:

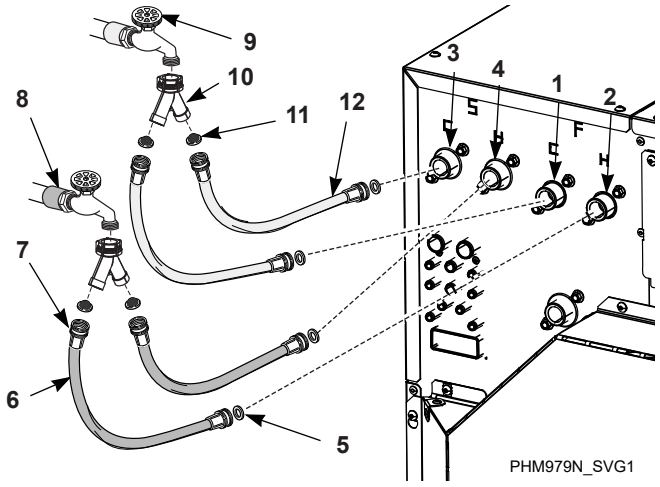
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1. Before installing hoses, flush the building's water system at the machine connection valves for at least two (2) minutes.
2. Remove the four (4) plain rubber washers and four (4) filter screens from the accessories bag supplied with the machine.
3. Install one (1) plain rubber washer onto one end and one (1) filter screen into the other end of each fill hose. The screens must be facing outward toward the water supply. Refer to *Figure 23* .
4. Screw one (1) of the Y-connectors (supplied with the machine) into the cold water supply faucet and one (1) into the hot water supply faucet.
5. Screw hose couplings with the filter screens onto the water supply faucets until they are finger-tight.
6. Using pliers, screw approximately 1/4 turn.
7. Screw the coupling with the plain rubber washer of one (1) of the hoses attached to the hot water connection onto the main fill valve inlet (marked "H", beneath the "F" mark). Screw the coupling with the plain rubber washer of the other hot water hose onto the spray valve inlet (marked "H", beneath the "S" mark). Tighten to finger-tight. Refer to *Figure 23* .
8. Screw the coupling with the plain rubber washer of one (1) of the hose attached to the cold water connection onto the main fill valve inlet (marked "C", beneath the "F" mark). Screw the coupling with the plain rubber washer of the other cold water hose onto the spray valve inlet (marked "C", beneath the "S" mark). Tighten to finger-tight. Refer to *Figure 23* .
9. Using pliers, screw approximately 1/4 turn.

   IMPORTANT: DO NOT cross thread or overtighten couplings. This will cause them to leak.
10. Hang hoses in a large loop; do not allow them to kink.
11. Turn on water supply and check for leaks.
12. If leaks are found, turn off the water, unscrew hoses and reinstall them until there are no leaks.

    IMPORTANT: Turn off water supply whenever there will be an extended period of non-use.

If additional hose lengths are needed or using hoses other than those supplied by manufacturer, flexible hoses with screen filters are required.



1. Cold Water Main Fill
2. Hot Water Main Fill
3. Cold Spray Valve Inlet
4. Hot Spray Valve Inlet
5. Rubber Washer (plain)
6. Fill Hose (hot)
7. Hose Coupling
8. Hot Water Supply Faucet
9. Cold Water Supply Faucet
10. Y-connection
11. Filter Screen (screen must be facing outward, toward water supply)
12. Fill Hose (cold)

Figure 23

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Plumbing Diagrams

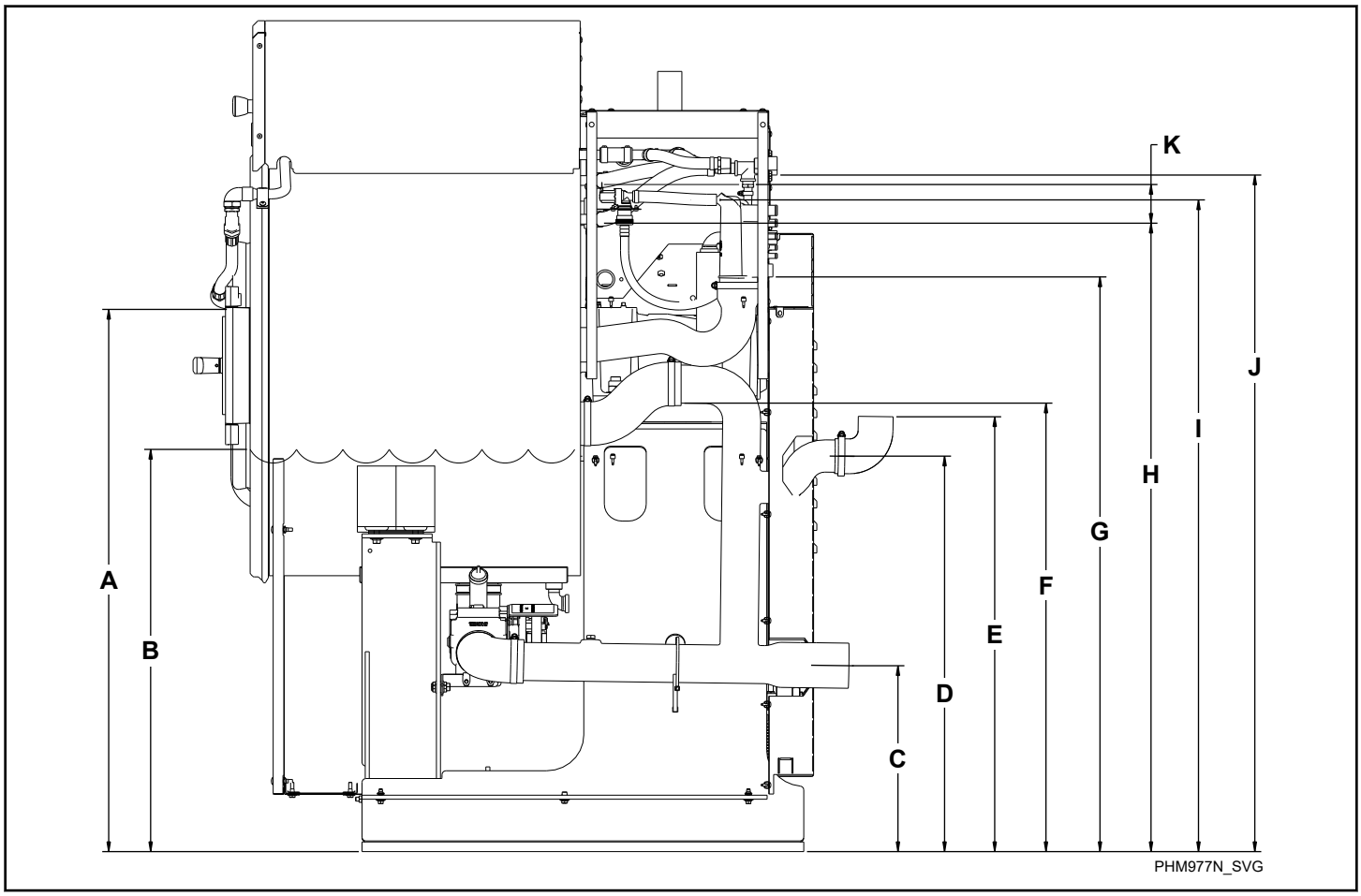


Figure 24

Plumbing Diagram - Chemical Injection, in. [mm]							
Description		**45**	**65**	**85**	**105**	**130**	**160/200**
A	Lowest point of door spray inlet (UniLinc)	42.1 [1069]	42.1 [1069]	45 [1143]	45 [1143]	50.6 [1285]	50.6 [1285]
B	High fill water level	32.4 [823]	32.4 [823]	33.3 [846]	33.3 [846]	36 [914]	36 [914]
C	Center of drain outlet	14.2 [361]	14.2 [361]	12.2 [310]	12.2 [310]	12.2 [310]	12.2 [310]
D	Center of overflow outlet	30.5 [775]	30.5 [775]	30.7 [780]	30.7 [780]	29.5 [749]	29.5 [749]
E	Top of overflow outlet (optional)	33.5 [851]	33.5 [851]	34.2 [869]	34.2 [869]	32.9 [836]	32.9 [836]
F	Overflow spill	34.8 [884]	34.8 [884]	35.3 [897]	35.3 [897]	38.8 [986]	38.8 [986]
G	Chemical dispenser air gap	46.7 [1186]	46.7 [1186]	49.2 [1250]	49.2 [1250]	56.2 [1427]	56.2 [1427]

Table 24 *continues...*

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Plumbing Diagram - Chemical Injection, in. [mm]							
Description		**45**	**65**	**85**	**105**	**130**	**160/200**
H	Main fill lower inlet port	48.7 [1237]	48.7 [1237]	52.3 [1328]	52.3 [1328]	57.7 [1466]	57.7 [1466]
I	Bottom of frame to Dispenser fill inlet	50.5 [1283]	50.5 [1283]	58.1 [1476]	58.1 [1476]	62.1 [1577]	62.1 [1577]
J	Bottom of frame to Inlet valve	52.6 [1336]	52.6 [1336]	57.5 [1461]	57.5 [1461]	64.5 [1638]	64.5 [1638]
K	Main fill lower inlet port Upper inlet port	3 [76]	3 [76]	3.02 [77]	3 [76]	3.6 [91]	3.6 [91]
	Maximum overflow	39.56 [1005]	39.56 [1005]	42.13 [1070]	42.13 [1070]	41.94 [1091]	41.94 [1091]

Table 24

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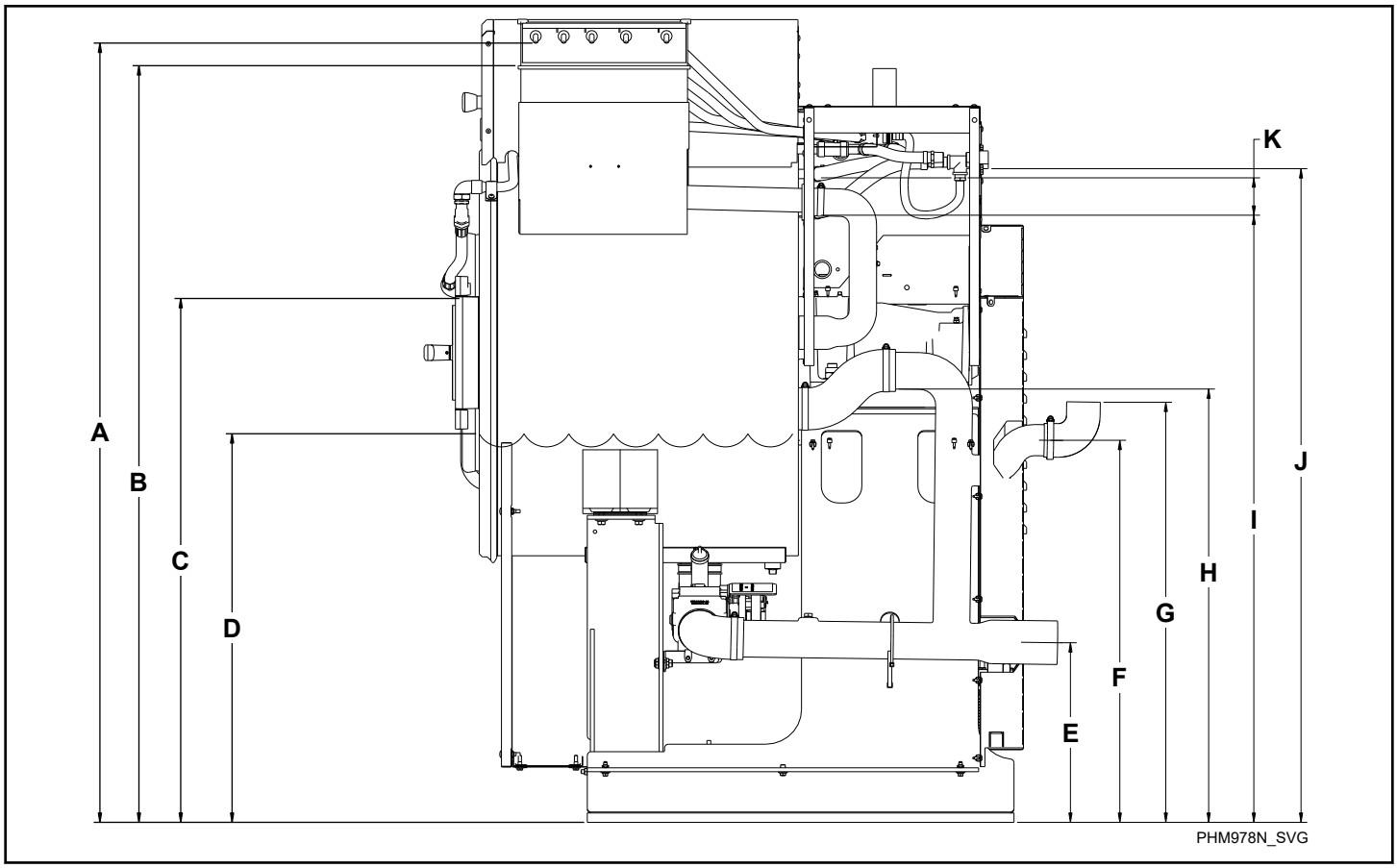


Figure 25

Plumbing Diagram - Five Compartment Supply Dispenser, in. [mm]							
Description		**45**	**65**	**85**	**105**	**130**	**160/200**
A	Dispenser inlet ports	62.6 [1590]	62.6 [1590]	65.6 [1666]	65.6 [1666]	70.5 [1791]	70.6 [1793]
B	Dispenser spill	60.7 [1542]	60.7 [1542]	63.6 [1615]	63.6 [1615]	68.9 [1750]	68.9 [1750]
C	Lowest point of door spray inlet (UniLinc)	42.1 [1069]	42.1 [1069]	45 [1143]	45 [1143]	50.6 [1285]	50.6 [1285]
D	High fill water level	32.4 [823]	32.4 [823]	33.3 [846]	33.3 [846]	36 [914]	36 [914]
E	Center of drain outlet	14.2 [361]	14.2 [361]	12.2 [310]	31.3 [795]	33.7 [856]	33.7 [856]
F	Center of overflow outlet	30.5 [775]	30.5 [775]	30.7 [780]	30.7 [780]	29.5 [749]	29.5 [749]
G	Top of overflow outlet (optional)	33.5 [851]	33.5 [851]	34.2 [869]	34.2 [869]	32.9 [836]	32.9 [836]
H	Overflow spill	34.8 [884]	34.8 [884]	35.3 [897]	35.2 [894]	38.8 [986]	38.8 [986]
I	Main fill lower inlet port	48.7 [1237]	48.7 [1237]	52.3 [1328]	52.3 [1328]	57.7 [1466]	57.8 [1468]

Table 25 *continues...*

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Plumbing Diagram - Five Compartment Supply Dispenser, in. [mm]							
Description		45	65	85	105	130	160/200
J	Inlet valve	52.6 [1336]	52.6 [1336]	57.5 [1461]	57.5 [1461]	64.5 [1638]	64.5 [1638]
K	Upper inlet port	3 [76]	3 [76]	3 [76]	3 [76]	3.6 [91]	3.6 [91]
	Maximum overflow	39.56 [1005]	39.56 [1005]	42.13 [1070]	42.13 [1070]	41.94 [1065]	41.94 [1065]

Table 25

Electrical Installation Requirements

IMPORTANT: Electrical ratings are subject to change. Refer to serial plate for electrical ratings information specific to your machine.

DANGER

Electrical shock hazard will result in death or serious injury. Disconnect electric power and wait five (5) minutes before servicing.

W810

WARNING

Dangerous voltages are present inside the machine. Only qualified personnel should attempt adjustments and troubleshooting. Disconnect power from the machine before removing any cover and guards, and before attempting any service procedures.

W736

WARNING

Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.

W360

WARNING

This Machine produces excessive leakage current. Do not use a grounding conductor smaller than 10mm^2.

W946

NOTE: For voltages above or below listed specification, a qualified electrical contractor must be consulted to install the appropriate transformer to meet the OEM electrical specifications. Refer to *Electrical Specifications (North American Approval)* and *Electrical Specifications (CE Approval)*.

Electrical connections are made at the rear of the machine. The machine must be connected to the proper electrical supply shown on the serial plate on the rear of the machine, using copper conductors only.

IMPORTANT: Alliance Laundry Systems warranty does not cover components that fail as a result of improper input voltage.

Machines are equipped with an AC inverter drives requiring a clean power supply, free from voltage spikes and surges. Use voltage monitor to check incoming power.

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Input Power Conditioning

The drive is suitable for direct connection to input power within the rated voltage of the drive. Listed in *Input Power Condition* are certain input power conditions which may cause component damage or reduction in product life. If any of the conditions exist, install one of the devices listed under the Possible Corrective Action(s).

IMPORTANT: Only one device per branch circuit is required. It should be mounted closest to the branch and sized to handle the total current of the branch circuit.

Input Power Condition	Possible Corrective Action(s)
Low Line impedance (less than 1% line reactance)	• Install Line Reactor • Isolation Transformer
Greater than 120 kVA supply transformer	
Line has power factor correction capacitors	• Install Line Reactor • Isolation Transformer
Line has frequent power interruptions	
Line has intermittent noise spikes in excess of 3000V (lightning)	
Phase to ground voltage exceeds 125% of normal line to line voltage	• Remove MOV jumper to ground • Install Isolation Transformer with grounded secondary (if necessary)
Ungrounded distribution system	
240V open delta configuration (stinger leg)*	• Install Line Reactor
* For drives applied on an open delta with a middle phase grounded neutral system, the phase opposite the phase that is tapped in the middle to the neutral or earth is referred to as the “stinger leg,” “high leg,” “red leg,” etc. This leg should be identified throughout the system with red or orange tape on the wire at each connection point. The stinger leg should be connected to the center Phase B on the reactor.	

Table 26

Input Voltage Requirements

For voltages above or below listed specifications, contact your power company or local electrician.

IMPORTANT: Improper connections will result in equipment damage and will void warranty.

DANGER

Electrical shock hazard will result in death or serious injury. Disconnect electric power and wait five (5) minutes before servicing.

W810

Circuit Breakers and Quick Disconnects

Single-phase machines require a single-phase inverse-time circuit breaker. Three-phase machines require a separate, three-phase inverse-time circuit breaker to prevent damage to the motor by disconnecting all legs if one should be lost accidentally. Refer to *North American Approval* and *CE Approval* sections for model-specific circuit breaker requirements.

IMPORTANT: All quick disconnects should comply with the specifications. DO NOT use fuses instead of circuit breakers.

Connection Specifications

IMPORTANT: Connection must be made by a qualified electrician using wiring diagram provided with machine, or according to accepted European Union standards.

Connect machine to an individual branch circuit not shared with lighting or other equipment. Shield connection in a liquid-tight or approved flexible conduit. Copper conductors of correct size must be installed in accordance with National Electric Code (NEC) or other applicable codes.

Use wire sizes indicated in the Electrical Specifications chart for runs up to 50 feet [15 m]. Use next larger size for runs of 50 to 100 feet [15 to 30 m]. Use two (2) sizes larger for runs greater than 100 feet [30 m].

IMPORTANT: For X voltage - To obtain 200-240V from a 200-240V source, connect L1 and L2. To obtain 220-240V from a 380-415V source, connect L1 and N. Refer to *Figure 26* .

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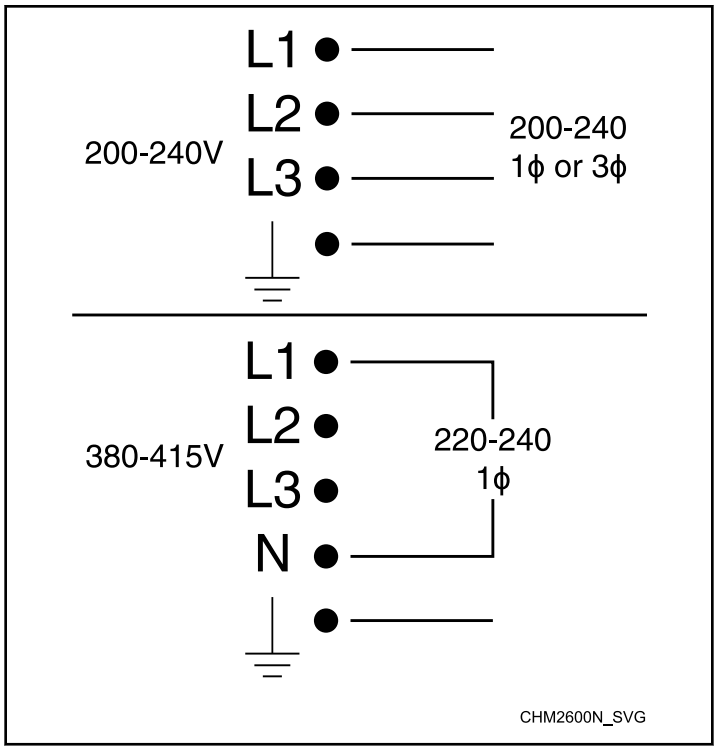


Figure 26

Machine Must Be Hard Wired

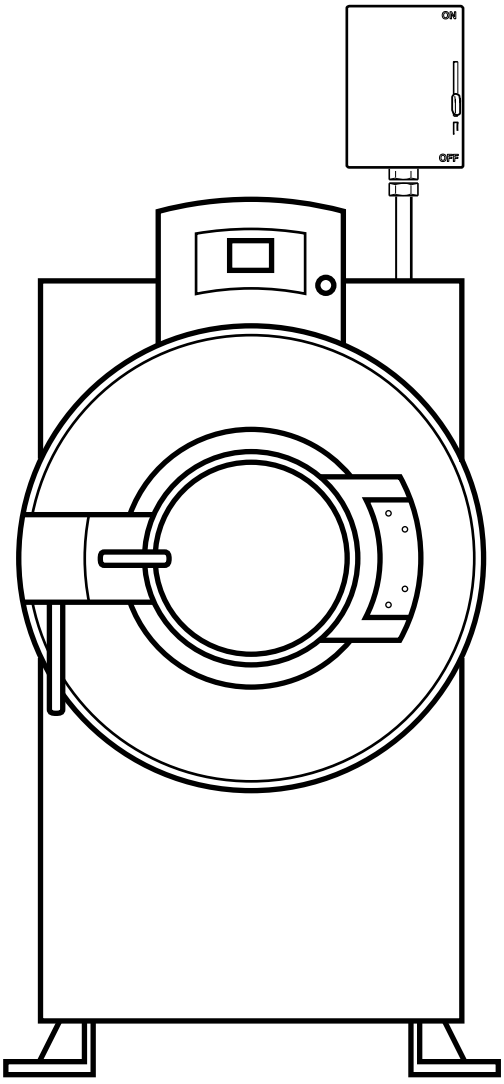


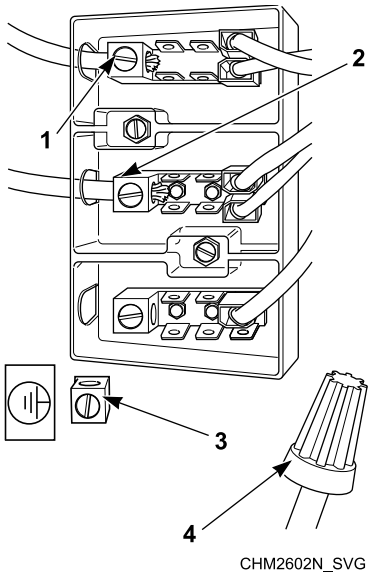
Figure 27

NOTE: Electrical receptacle must be located so that it is easily accessible with machine in place. An intermediate shut-off box with a 3 mm gap is required to meet EN 60335-1, clauses 24.3 and 22.2 or 3.5 mm gap is required to meet Standard IEC 60335-1, clauses 24.3 and 22.2. Gap is defined as the minimum contact separation of each pole in the switch between the "ON" and "OFF" positions.

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Single-Phase Connections

For single-phase input, connect L1, L2 and Ground and cap neutral as shown in *Figure 28* .

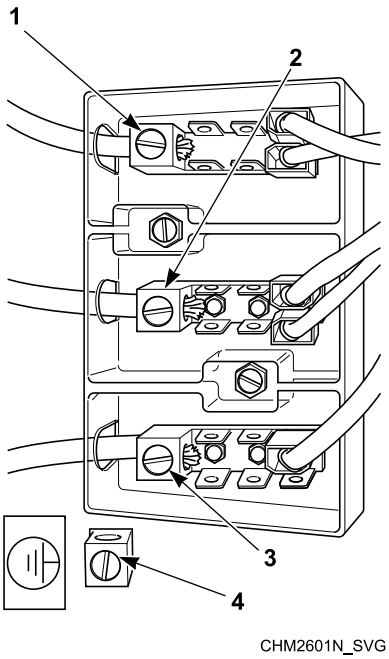


1. L1
2. L2/N
3. Ground
4. Neutral (capped)

Figure 28

Three-Phase Connections

For three-phase input, connect L1, L2, L3 and Ground as shown in *Figure 29* .



1. L1
2. L2
3. L3
4. Ground

Figure 29

IMPORTANT: If a stinger leg is used for three-phase input, it MUST be connected to L3.

Grounding

For personal safety and proper operation, the machine must be grounded in accordance with state and local codes. If such codes are not available, grounding must conform to the National Electric Code, article 250 (current edition). The ground connection must be made to a proven earth ground, not to conduit or water pipes.

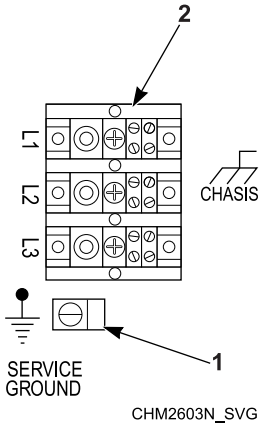
WARNING

Electrically heated machines DO NOT require dual power sources. Do not connect customer power or customer load to the Internal Load Distribution terminal block. Refer to the machine electrical schematic for details.

W759

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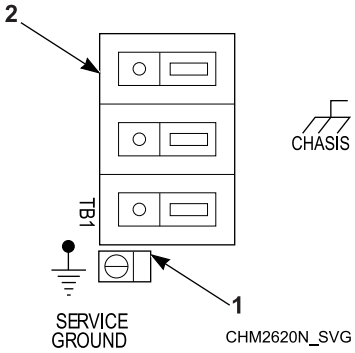
Machines with Electric Heat



1. Grounding Lug: Connect to proven earth ground
2. Customer Input Power Terminals

Figure 30

Machines without Electric Heat



1. Grounding Lug: Connect to proven earth ground
2. Customer Input Power Terminals

Figure 31

Phase Adder

IMPORTANT: Do not use a phase adder on any machine.

Thermal Overload Protector

The inverter drive provides overload protection for the drive motor.

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North American Approval

NOTE: Wire sizing listed in this table is based on Article 310, Table 310.16 of the NEC; at 104°F [40°C] ambient temperature. Follow your local electrical codes. Use only copper conductors, rated for 194ºF [90°C] or higher, type THHN or better. No more than three current carrying conductors per raceway. Contact your local Authority having jurisdiction if you have questions. Circuit breakers should be UL 489 listed or better. Single phase circuit breakers for single phase machines only; three phase circuit breakers for all others.

45 Pound [20.4 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
L-Speed Models									
X		200-240	50- 60	1/3	2/3	8/6	15	14	2.5
M-Speed Models									
X		200-240	50- 60	1/3	2/3	11/8	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	71	80	4	25.0
N	Standard	440-480	50- 60	3	3	5	15	14	2.5
	Electric Heat					36	40	8	10.0
P	Standard	380-415	50- 60	3	3	5	15	14	2.5
	Electric Heat					32	40	8	10.0
V-Speed Models									
X		200-240	50- 60	1/3	2/3	16/ 10	20/ 15	12/ 14	4.0/ 2.5
Q	Electric Heat	200-240	50- 60	3	3	71	80	4	25.0
N	Standard	440-480	50- 60	3	3	7	15	14	2.5
	Electric Heat					36	40	8	10.0

Table 27 *continues...*

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45 Pound [20.4 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
P	Standard	380-415	50- 60	3	3	8	15	14	2.5
	Electric Heat					32	40	8	10.0

Table 27

65 Pound [29.5 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
L-Speed Models									
X		200-240	50- 60	1/3	2/3	12/ 7	15	14	2.5
M-Speed Models									
X		200-240	50- 60	1/3	2/3	16/ 9	20/ 15	12/ 14	4.0/ 2.5
Q	Electric Heat	200-240	50- 60	3	3	71	80	4	25.0
N	Standard	440-480	50- 60	3	3	5	15	14	2.5
	Electric Heat					36	40	8	10.0
P	Standard	380-415	50- 60	3	3	5	15	14	2.5
	Electric Heat					32	40	8	10.0
V-Speed Models									
X		200-240	50- 60	1/3	2/3	16/ 10	20/ 15	12/ 14	4.0/ 2.5

Table 28 *continues...*

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65 Pound [29.5 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
Q	Electric Heat	200-240	50- 60	3	3	71	80	4	25.0
N	Standard	440-480	50- 60	3	3	7	15	14	2.5
	Electric Heat					36	40	8	10.0
P	Standard	380-415	50- 60	3	3	8	15	14	2.5
	Electric Heat					32	40	8	10.0

Table 28

85 Pound [38.6 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
M-Speed Models									
Q	Standard	200-240	50- 60	3	3	14	20	12	4
	Electric Heat					105	110	2	35
N	Standard	440-480	50- 60	3	3	9	15	14	2.5
	Electric Heat					39	40	8	10
P	Standard	380-415	50- 60	3	3	9	15	14	2.5
	Electric Heat					35	40	8	10
V-Speed Models									

Table 29 *continues...*

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85 Pound [38.6 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
Q	Standard	200-240	50- 60	3	3	16	20	12	4
	Electric Heat					105	110	2	35
N	Standard	440-480	50- 60	3	3	10	15	14	2.5
	Electric Heat					39	40	8	10
P	Standard	380-415	50- 60	3	3	10	15	14	2.5
	Electric Heat					35	40	8	10

Table 29

105 Pound [47.6 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
M-Speed Models									
Q	Standard	200-240	50- 60	3	3	14	20	12	4
	Electric Heat					108	110	2	35
N	Standard	440-480	50- 60	3	3	9	15	14	2.5
	Electric Heat					40	50	8	10
P	Standard	380-415	50- 60	3	3	9	15	14	2.5
	Electric Heat					36	40	8	10

Table 30 *continues...*

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105 Pound [47.6 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
V-Speed Models									
Q	Standard	200-240	50- 60	3	3	16	20	12	4
	Electric Heat					108	110	2	35
N	Standard	440-480	50- 60	3	3	10	15	14	2.5
	Electric Heat					40	50	8	10
P	Standard	380-415	50- 60	3	3	10	15	14	2.5
	Electric Heat					36	40	8	10

Table 30

130 Pound [59 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
M-Speed Models									
Q	Standard	200-240	50- 60	3	3	16	20	12	4
N	Standard	440-480	50- 60	3	3	10	15	14	2.5
	Electric Heat					74	80	4	25
P	Standard	380-415	50- 60	3	3	10	15	14	2.5
	Electric Heat					65	70	4	25

Table 31 *continues...*

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130 Pound [59 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
V-Speed Models									
Q	Standard	200-240	50- 60	3	3	21	30	10	6
N	Standard	440-480	50- 60	3	3	12	15	14	2.5
	Electric Heat					74	80	4	25
P	Standard	380-415	50- 60	3	3	12	15	14	2.5
	Electric Heat					65	70	4	25

Table 31

160 Pound [72.6 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
V-Speed Models									
Q	Standard	200-240	50- 60	3	3	22	30	10	6
N	Standard	440-480	50- 60	3	3	12	15	14	2.5
	Electric Heat					74	80	4	25
P	Standard	380-415	50- 60	3	3	12	15	14	2.5
	Electric Heat					65	70	4	25

Table 32

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200 Pound [90.7 Kg] Capacity Models - North American Approval									
Voltage Designation						Specifications			
Codes		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
M-Speed Models									
Q	Standard	200-240	50- 60	3	3	22	30	10	6
N	Standard	440-480	50- 60	3	3	12	15	14	2.5
	Electric Heat					74	80	4	25
P	Standard	380-415	50- 60	3	3	12	15	14	2.5
	Electric Heat					65	70	4	25

Table 33

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CE Approval

NOTE: Wire sizing listed in this table is based on Article 310, Table 310.16 of the NEC; at 104°F [40°C] ambient temperature. Follow your local electrical codes. Use only copper conductors, rated for 194ºF [90°C] or higher, type THHN or better. No more than three current carrying conductors per raceway. Contact your local Authority having jurisdiction if you have questions. Circuit breakers should be UL 489 listed or better. Single phase circuit breakers for single phase machines only; three phase circuit breakers for all others.

NOTE: N and P Voltage - Where the protective conductor has a cross-sectional area of less than 10 mm2 Cu, a second protective conductor of at least the same cross-sectional area shall be provided up to a point where the protective conductor has a cross-sectional area not less than 10 mm2 Cu.

45 Pound [20.4 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
L-Speed Models								
X		200-240	50-60	1/3	2/3	11/7	16/ 10	2.5
M-Speed Models								
X		200-240	50-60	1/3	2/3	11/8	16/ 10	2.5
Q	Electric Heat	200-240	50-60	3	3	59-70	80	16
N	Standard	440-480	50-60	3	3	5	6	2.5
	Electric Heat					35	40	4
P	Standard	380-415	50-60	3	3	5	6	2.5
	Electric Heat					30	40	4
V-Speed Models								
X		200-240	50-60	1/3	2/3	17/11	20/ 16	2.5
Q	Electric Heat	200-240	50-60	3	3	59-70	80	16
N	Standard	440-480	50-60	3	3	7	10	2.5
	Electric Heat					35	40	4
P	Standard	380-415	50-60	3	3	8	10	2.5
	Electric Heat					30	40	4

Table 34

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65 Pound [29.5 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
L-Speed Models								
X		200-240	50-60	1/3	2/3	12/7	16/ 10	2.5
M-Speed Models								
X		200-240	50-60	1/3	2/3	17/9	20/ 10	2.5
Q	Electric Heat	200-240	50-60	3	3	59-70	80	16
N	Standard	440-480	50-60	3	3	5	6	2.5
	Electric Heat					35	40	4
P	Standard	380-415	50-60	3	3	5	6	2.5
	Electric Heat					30	40	4
V-Speed Models								
X		200-240	50-60	1/3	2/3	17/11	20/ 16	2.5
Q	Electric Heat	200-240	50-60	3	3	59-70	80	16
N	Standard	440-480	50-60	3	3	7	10	2.5
	Electric Heat					35	40	4
P	Standard	380-415	50-60	3	3	8	10	2.5
	Electric Heat					30	40	4

Table 35

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85 Pound [38.6 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
M and V-Speed Models								
Q	Standard	200-240	50-60	3	3	17	20	2.5
	Electric Heat					87- 103	125	35
N	Standard	440-480	50-60	3	3	11	16	2.5
	Electric Heat					35	40	4
P	Standard	380-415	50-60	3	3	11	16	2.5
	Electric Heat					30	40	4

Table 36

105 Pound [47.6 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
M and V-Speed Models								
Q	Standard	200-240	50-60	3	3	17	20	2.5
	Electric Heat					67- 103	125	35
N	Standard	440-480	50-60	3	3	11	16	2.5
	Electric Heat					35	40	4
P	Standard	380-415	50-60	3	3	11	16	2.5
	Electric Heat					30	40	4

Table 37

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130 Pound [59 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
M-Speed Models								
Q	Standard	200-240	50-60	3	3	17	20	2.5
N	Standard	440-480	50-60	3	3	11	16	2.5
	Electric Heat					70	80	16
P	Standard	380-415	50-60	3	3	11	16	2.5
	Electric Heat					61	80	16
V-Speed Models								
Q		200-240	50-60	3	3	21	25	2.5
N	Standard	440-480	50-60	3	3	12	16	2.5
	Electric Heat					70	80	16
P	Standard	380-415	50-60	3	3	12	16	2.5
	Electric Heat					61	80	16

Table 38

160 Pound [72.6 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
V-Speed Models								
Q	Standard	200-240	50-60	3	3	22	25	2.5
N	Standard	440-480	50-60	3	3	12	16	2.5
	Electric Heat					70	80	16

Table 39 *continues...*

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160 Pound [72.6 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
P	Standard	380-415	50-60	3	3	12	16	2.5
	Electric Heat					61	80	16

Table 39

200 Pound [90.7 Kg] Capacity Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
M-Speed Models								
Q	Standard	200- 240	50-60	3	3	22	25	2.5
N	Standard	440- 480	50-60	3	3	12	16	2.5
	Electric Heat					70	80	16
P	Standard	380- 415	50-60	3	3	12	16	2.5
	Electric Heat					61	80	16

Table 40

Steam Requirements (Steam Heat Option Only)

WARNING

Hot Surfaces. Will cause severe burns. Turn steam off and allow steam pipes, connections and components to cool before touching.

W505

For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Steam requirements are shown in *Table 1*.

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Chemical Injection Supply System

WARNING

Dangerous Chemicals. May damage eyes and skin. Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer's directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.

W363

IMPORTANT: Undiluted chemical dripping can damage the machine. All chemical injection supply dispenser pumps and dispenser tubing should be mounted below the washer's injection point. Loops do not prevent drips if these instructions are not followed. *Figure 34* shows a typical Chemical Injection Supply System. *Figure 35* shows a typical Five Compartment Supply System.

IMPORTANT: Failure to follow these instructions could damage the machine and void the warranty.

The chemical supply connector is located on the back right-hand side of the machine. There are 12 chemical ports on the connector, through each a liquid supply hose can be connected.

IMPORTANT: Water pressure must not exceed 40 psi [275 kPa].

1. Drill through the ports on the chemical supply connector as needed for the external supply hoses.

   NOTE: 3/8 inch ports must be drilled through with a 3/16 inch diameter drill bit and 1/2 inch ports must be drilled through with a 5/16 inch diameter drill bit before connecting chemical lines. Refer to *Figure 33* .

   IMPORTANT: Be careful to only drill through the first wall so as not to damage the machine.
2. Remove plastic debris.
3. Attach the external supply hoses to the ports at each of the drilled holes.
4. Secure with proper clamps.

CAUTION

Drill out plugs and nipples before making supply hose connection. Failure to do so can cause buildup of pressure and risk a tubing rupture.

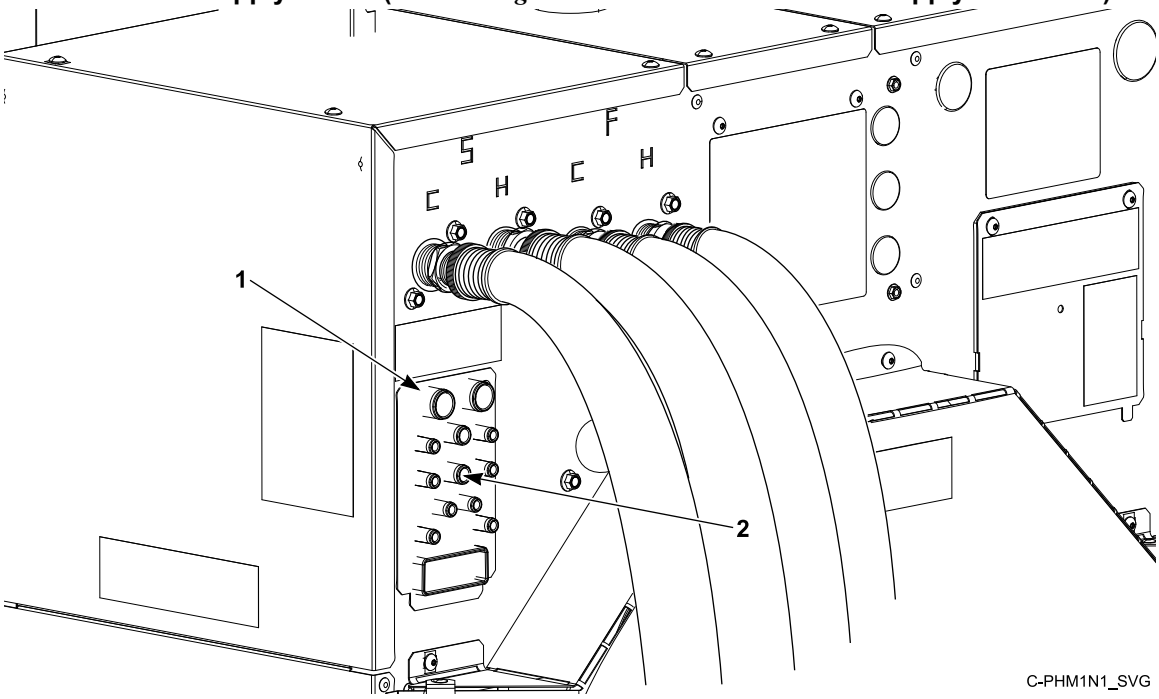
W491

Supply Dispensing	
Number of liquid chemical supply signals (if equipped)	4 or 8
Number of supply compartments	5
Number of external liquid supply connections	12

Table 41

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Connection for Chemical Supply Hoses (refer to *Figure 33* for detail of chemical supply connector)

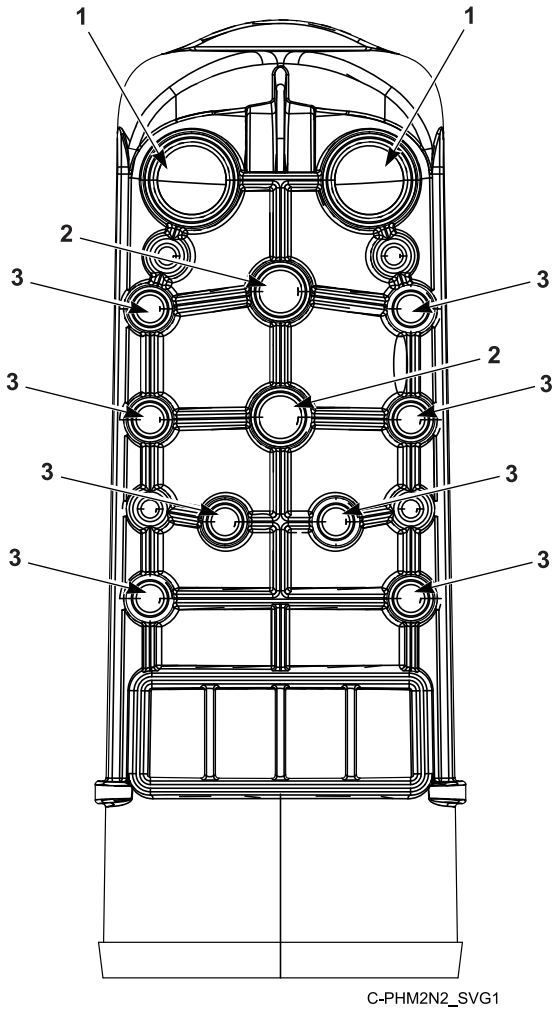


1. Chemical Supply Connector
2. External Liquid Supply Connection Ports (12)

Figure 32

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External Liquid Supply Connection Ports

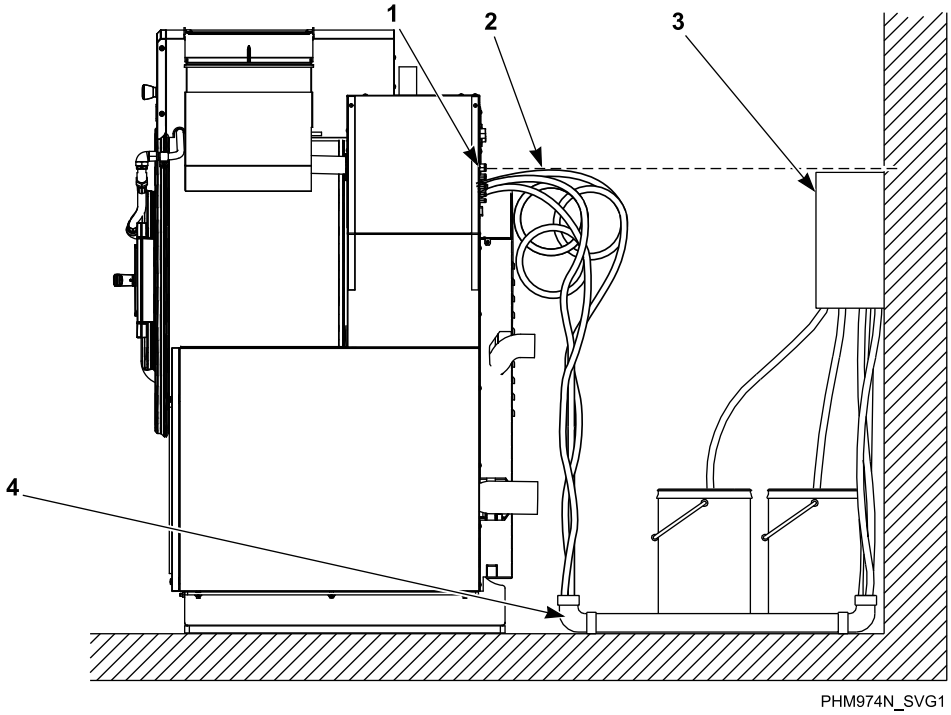


1. 3/4 inch port, O.D.
2. 1/2 inch port, O.D.
3. 3/8 inch port, O.D.

Figure 33

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Chemical Supply Setup



* Use a check valve on the end of tubing

† Pumps must be mounted below the injection point

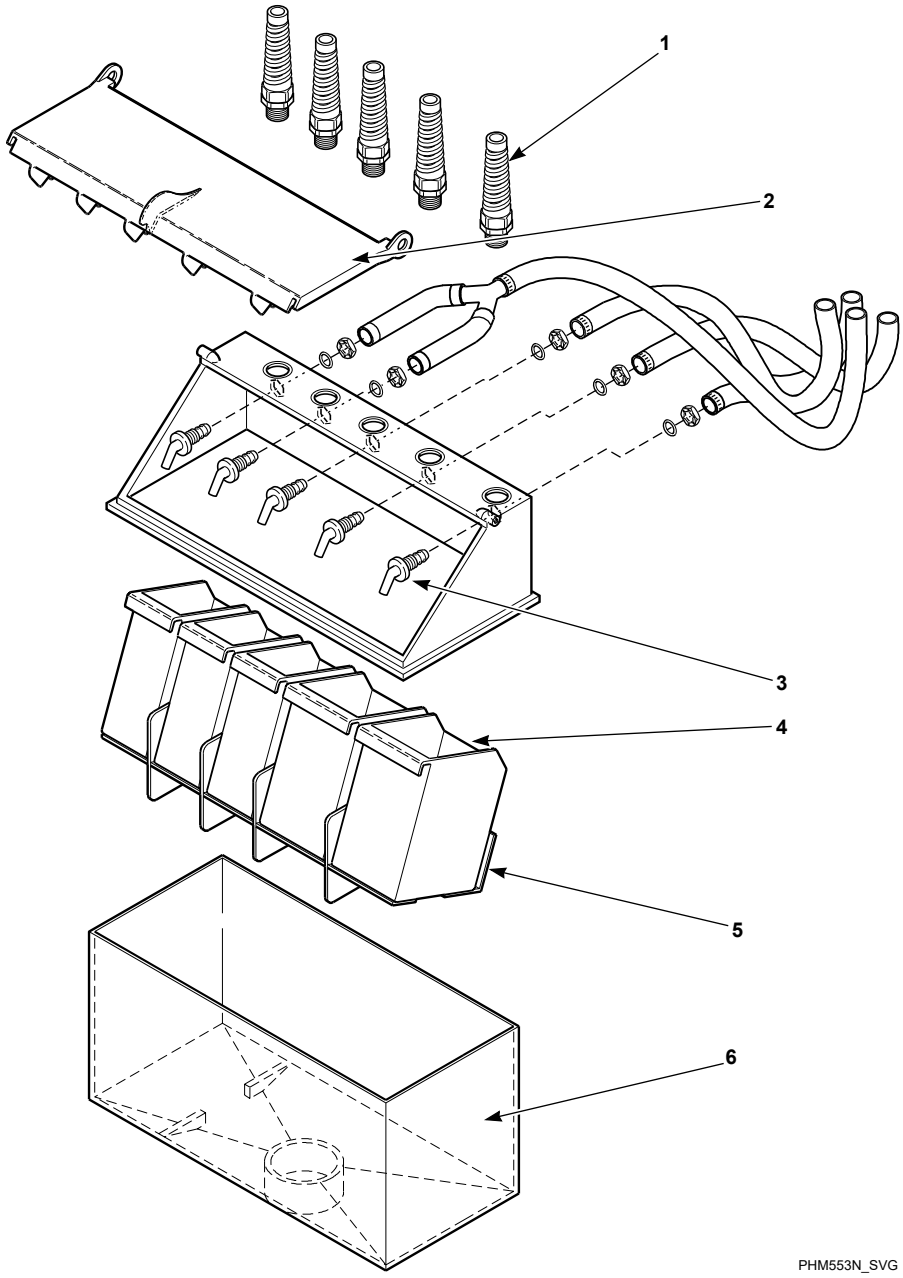
1. Injection Point*
2. Loops
3. Chemical Dispenser Pump Outlet †
4. PVC Pipe

Figure 34

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Five Compartment Supply Dispenser (Optional)

Five Compartment Supply Dispenser (Optional)



IMPORTANT: Do not attach anything to nozzles. Air gap must be maintained.

1. Strain Relief for Liquid Chemical Supply Lines
2. Supply Dispenser Lid
3. Nozzles
4. Dry Supply Cups
5. Dry Supply Insert
6. Polypropylene Supply Dispenser

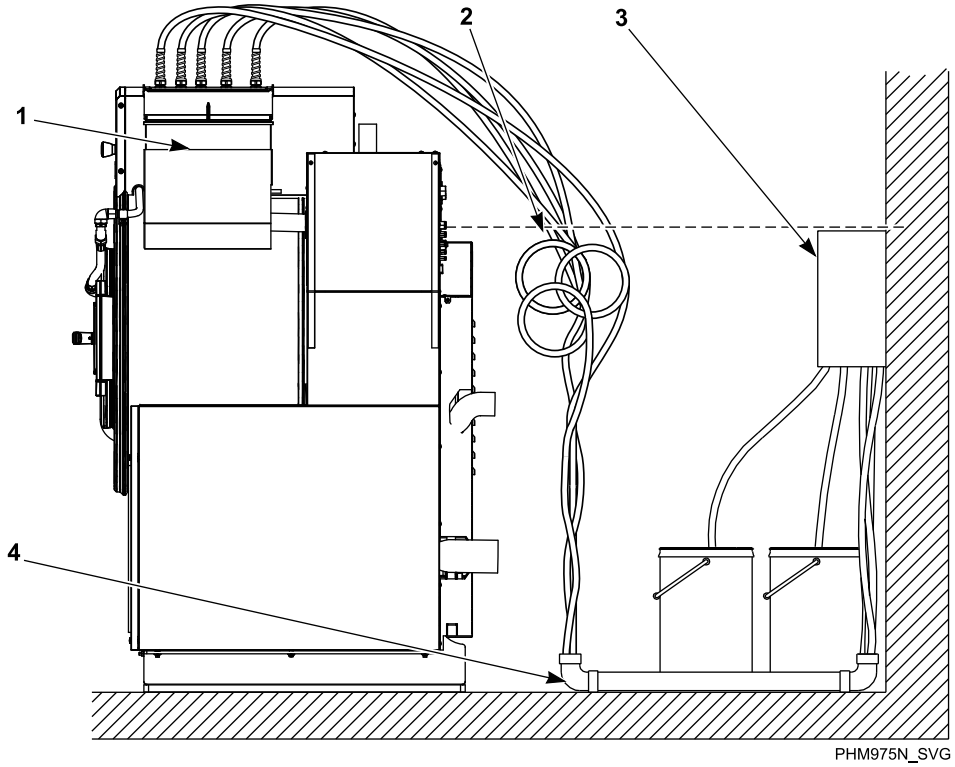
Figure 35

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1. Remove knockout from supply dispenser. Refer to *Figure 35* . Plugs are assembled inside the tubing ring.
2. Install PG connector in hole with strain reliefs, included in the seal nut.
3. Insert tubes through PG base. Do not remove cups. Tube should extend into the plastic cup, with the exception of the softener tube, which should be routed to the outside of the cup.
4. Tighten the seal nut to prevent tubing from escaping the assembly.
5. Before operating machine, confirm lid is completely closed.

Do not attempt to make chemical injection electrical connections to points other than those provided specifically for that purpose by the factory.

Chemical Supply Setup Using Five Compartment Supply Dispenser



* Use a check valve on the end of tubing

† Must be mounted below the injection point

1. Injection Point*
2. Loops
3. Chemical Dispenser Pumb Outlet †
4. PVC Pipe

Figure 36

External Supplies

For proper communication between the machine and an external chemical supply system, it is important for the low-voltage signal power to be connected properly. The included wiring diagram shows several different options for safe and correct wiring of this interface.

The preferred method for connecting the wiring from the external chemical supply system to the machine is to use the 300mA power of the machine's 24VAC control transformer, which is intended strictly for this purpose. Refer to *Figure 37* and *Figure 38* . Other

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voltage and current options are available, but require some wiring changes and must be provided with an external power source. Under no circumstances should the high-voltage machine supply connections or source be used for the communication wiring.

Communication wiring connections, which is H2 a single row green connector on a small output board and H4 a single row green connector on the large output board, can be found under a service panel at the upper back of the machine.

Chemical Injection Using Internal 24VAC Control Transformer

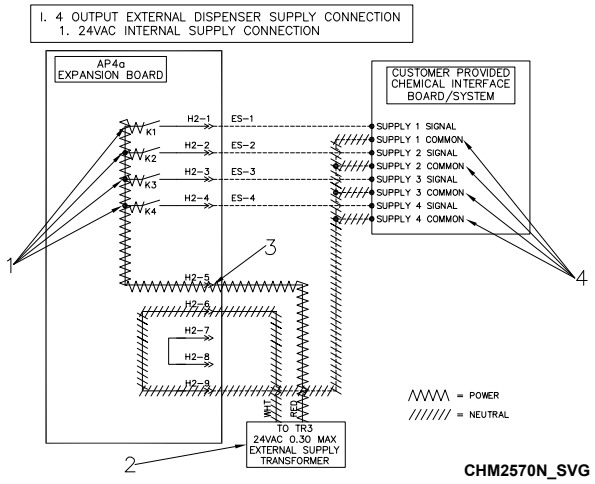
NOTE: Using the Internal 24VAC 300 Milliamp Control Transformer is recommended by Alliance Laundry Systems.

CAUTION

Do not attempt to increase fuse rating or alter wiring of external chemical supply terminal strip in such as way that may conflict with the suggested methods provided on the Optional External Supply Wiring Diagram.

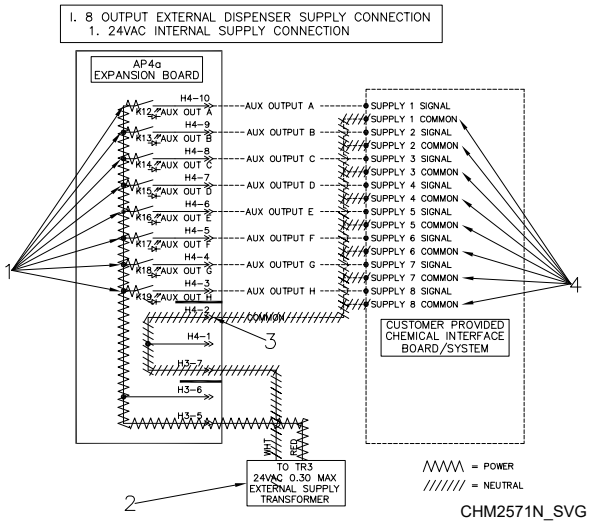
W699

IMPORTANT: Do not use the transformer terminals if an external power supply is used.



1. External Supply Power Output
2. Internal Control Transformer
3. RELAY COM Terminal
4. External Dispenser Input Signal Common

Figure 37



1. External Supply Power Output
2. Internal Control Transformer
3. RELAY COM Terminal
4. External Dispenser Input Signal Common

Figure 38

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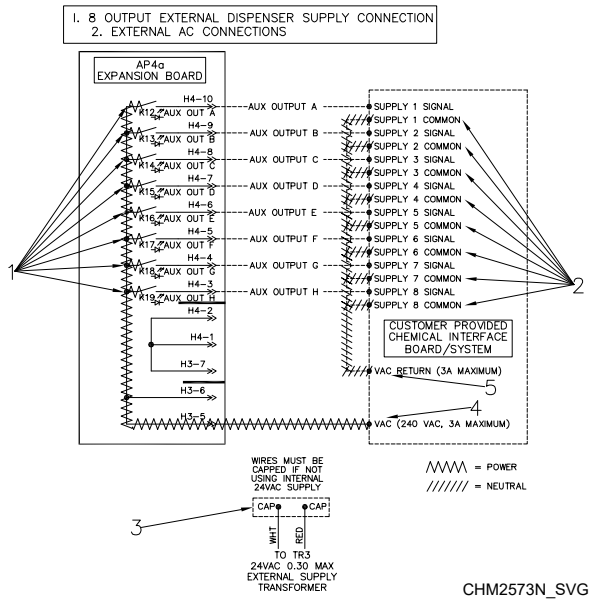
Chemical Injection Using External AC Power Source

NOTE: An External AC Power Source is NOT provided by Alliance Laundry Systems.

NOTE: Power for external supplies must not be derived from the high-voltage main power connection point.

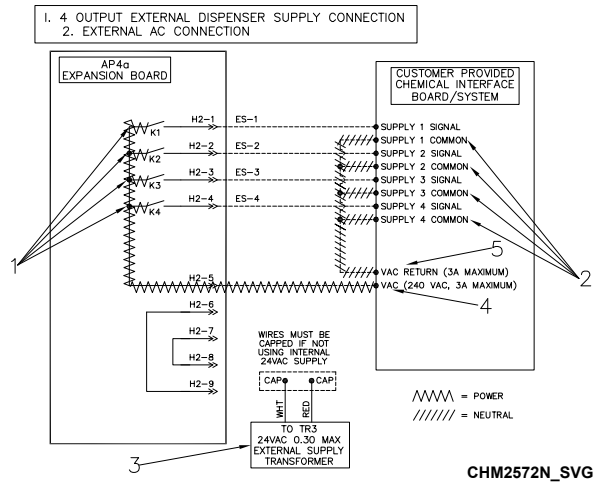
IMPORTANT: The external power must supply power of 240VAC or less and be protected at 3 Amps or less.

1. Disconnect and cap off the Red and White 24VAC wires.
2. Connect one side of the external power to the "RELAY COM" and the other to the external dispenser input signals common. Refer to *Figure 39* and *Figure 40* .



1. External Supply Power Output
2. External Dispencer Input Signal Common
3. Capped Off 24VAC Supply
4. VAC Terminal
5. VAC COM Terminal

Figure 39



1. External Dispencer Power Output
2. External Dispencer Input Signal Common
3. Capped Off 24VAC Supply
4. VAC Terminal
5. VAC COM Terminal

Figure 40

CAUTION

Do not attempt to increase fuse rating or alter wiring of external chemical supply terminal strip in such as way that may conflict with the suggested methods provided on the Optional External Supply Wiring Diagram.

W699

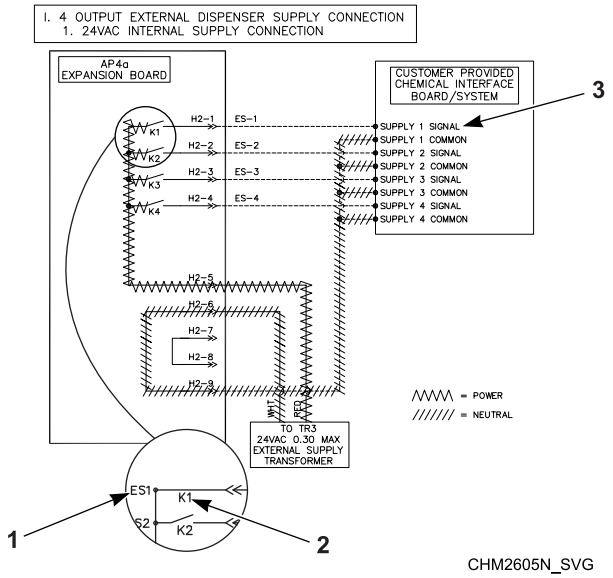
External Supply Signals

Wash-cycle signals are provided to the external chemical supply equipment and a "wait for the next step" signal can be received from the supply equipment.

For example of a 4-signal board, if ES1 is selected the K1 contact will close and power will be supplied to Supply 1 Signal. The contact will remain closed for the amount of time programmed in control. Refer to *Figure 41* for Internal Supply Connection or *Figure 43* for External AC Connection.

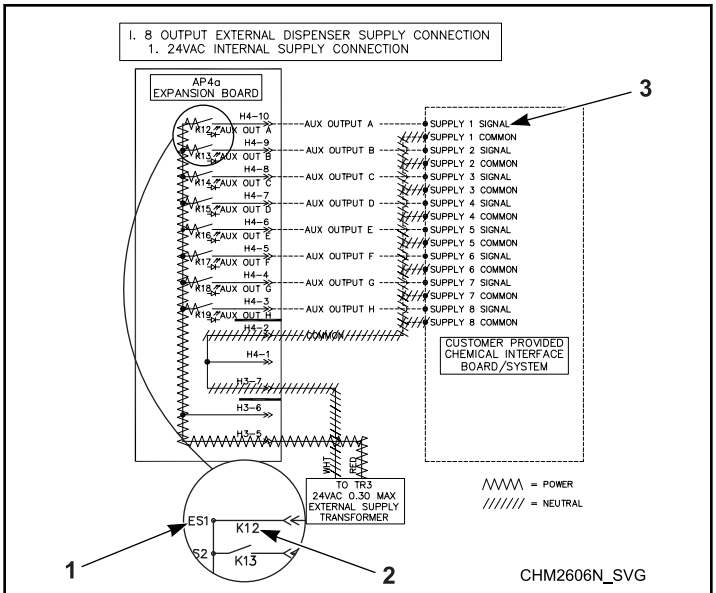
For example of an 8-signal board, if ES1 is selected the K12 contact will close and power will be supplied to Supply 1 Signal. The contact will remain closed for the amount of time programmed in control. Refer to *Figure 42* for Internal Supply Connection or and *Figure 44* for External AC Connection.

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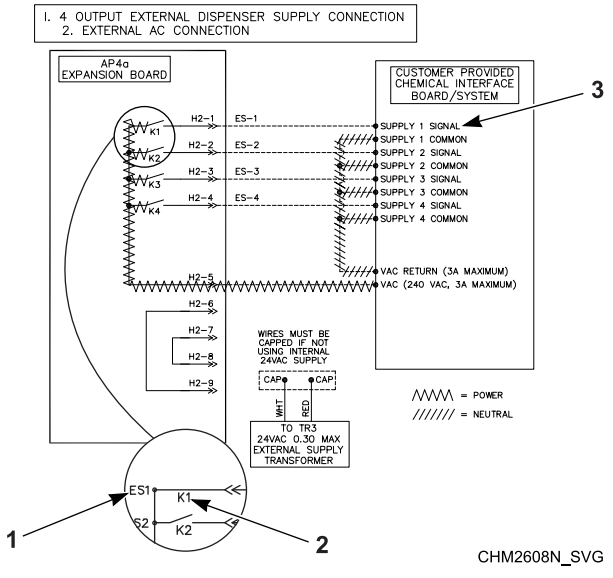
1. ES1 Power supply
2. K1 Contact
3. Supply 1 Signal

Figure 41



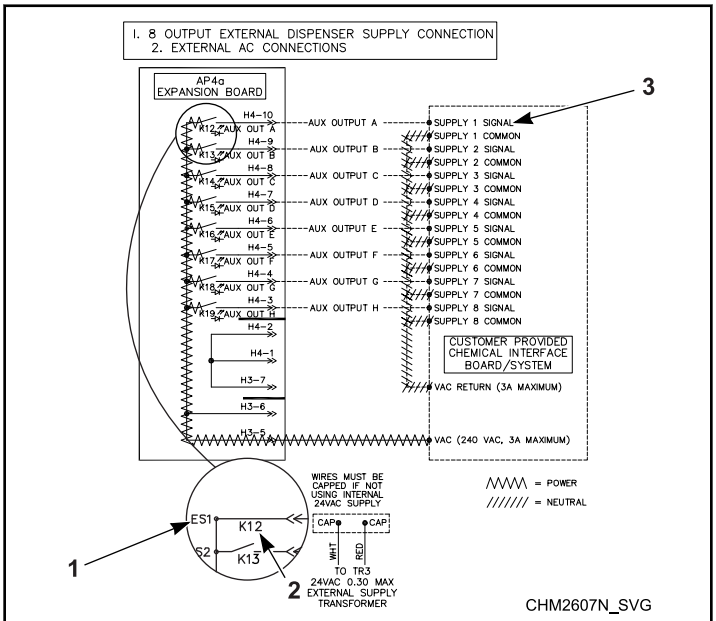
1. ES1 Power supply
2. K12 Contact
3. Supply 1 Signal

Figure 43



1. ES1 Power supply
2. K1 Contact
3. Supply 1 Signal

Figure 42



1. ES1 Power supply
2. K12 Contact
3. Supply 1 Signal

Figure 44

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Start Up

Basket Rotation

After installation is complete, run the machine through a test cycle and check that basket rotation is counter clockwise in the extract step.

1. If rotation is not counter clockwise, disconnect power to machine.
2. Have a qualified electrician reverse any two motor leads at the motor.

Safety Stability Switch Operation

After machine is properly installed, the safety Stability Switch operation must be verified.

1. Locate the green-colored switch on the rear, left-side of the frame.
2. Place a large magnet above the normally-closed ball switch to verify switch operation.

   IMPORTANT: Machines are manufactured with a normally-closed ball switch and should not require any adjustment. To avoid nuisance tripping, machine must be level with a summed value of 3/8 inch (9.5 mm) front to back and right to left to the earth. If switch is tripped, check if machine is level and then for poor grouting and broken anchor bolts. DO NOT BYPASS SAFETY SWITCH. Contact a qualified service technician for further assistance.

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Operation

Operating Instructions

1. Turn on main power source (circuit breaker).
2. Turn handle clockwise to open. Refer to *Figure 45* .

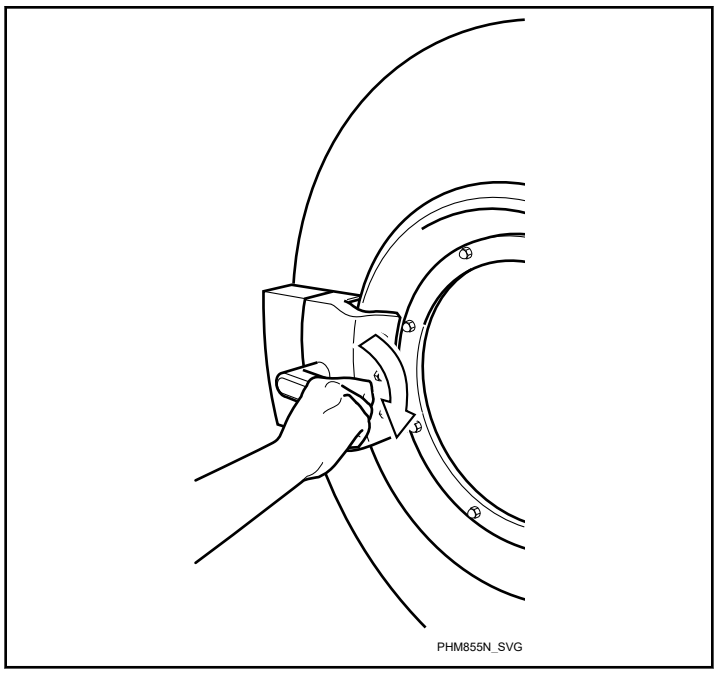


Figure 45

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 46* .

   NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

CAUTION

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025

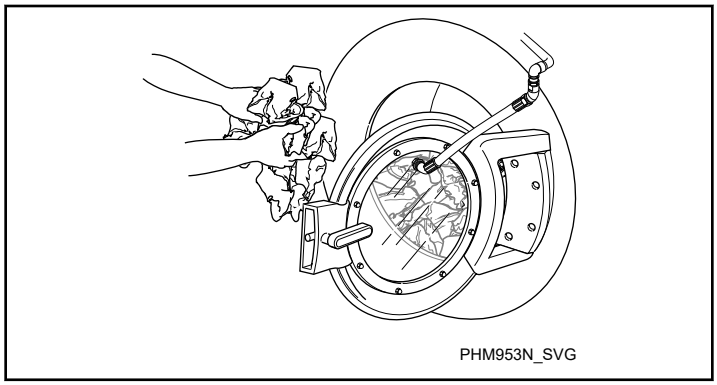


Figure 46

NOTE: When washing items which may disintegrate or fragment, such as mop heads or sponges, use laundry nets to prevent drain blockage.

IMPORTANT: To prevent out-of-balance conditions, premature wear or damage to machine when using laundry nets, use several small nets in a load.

4. Close the door and turn handle counter clockwise. Refer to *Figure 47* .

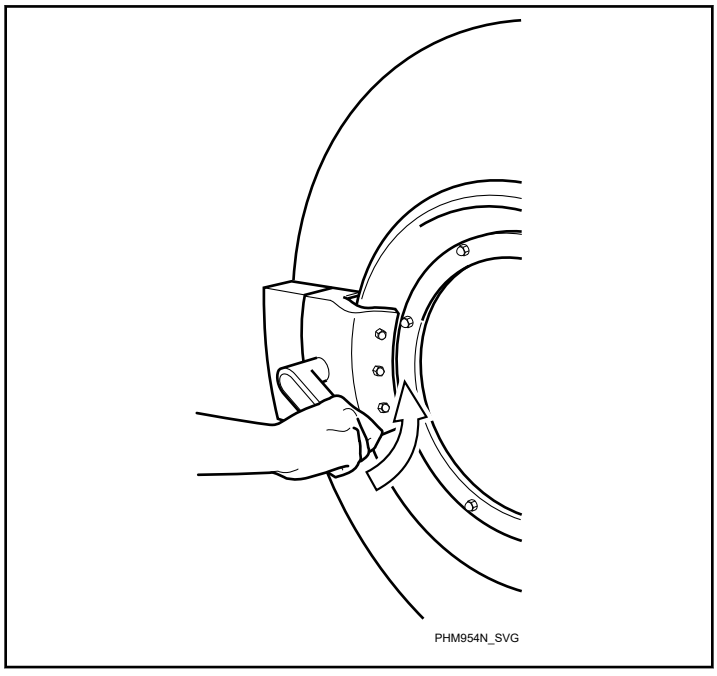


Figure 47

5. Refer to *OPL Control Instructions* to select and start a cycle.

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CAUTION

Water cannot be extracted from rubber backed items. To avoid damage to machine from out of balance conditions, do not use a spin (extract) step when washing rubber backed items. Warranty will be voided.

W880

WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit [51° Celsius] and hot surfaces.

W748

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Control Instructions

NOTE: The control digit is the 7th digit in the model number. Example: UWT045[D]30VQ050LA00

Models with N Control

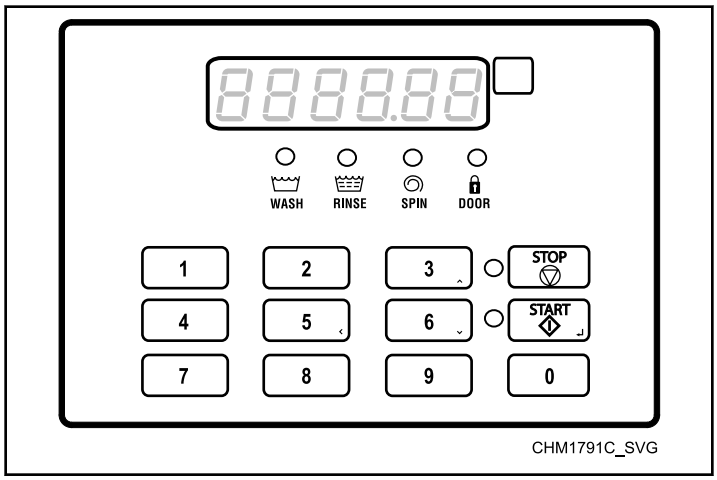


Figure 48

1. If equipped with an optional supply dispenser, add dry supplies to the compartment cups prior to the start of each cycle. Liquid supplies can be injected directly into the supply dispenser by an external chemical supply system.

   NOTE: Supply dispenser compartment cups must not be removed when an external chemical injection supply system is attached to the machine.
2. Press the 1, 2, 3, 4, 5, 6, 7, 8, 9 or 0 keypad to select the desired cycle.
3. Press the START (enter) keypad to select.

   NOTE: Cycles cannot be changed anytime after the machine is started.
4. When a cycle is complete, the control displays OPEN DOOR.

Models with D Control

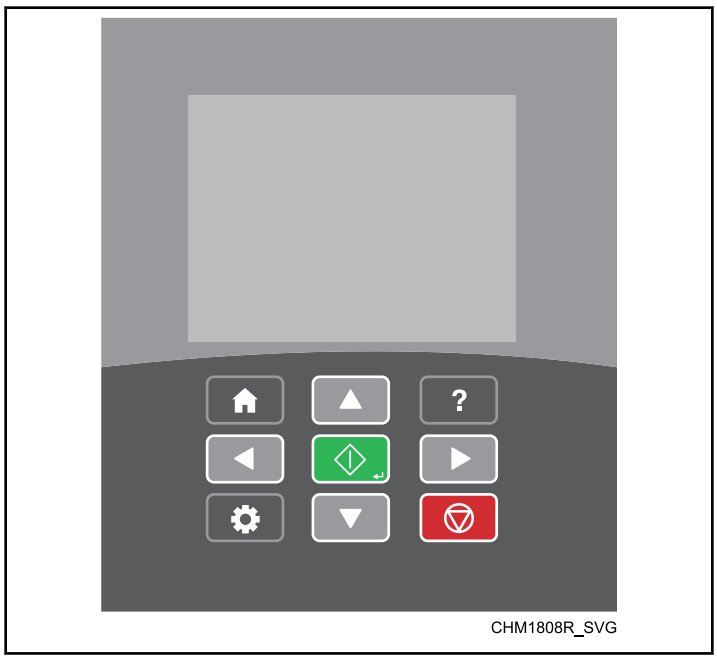


Figure 49

1. If equipped with an optional supply dispenser, add dry supplies to the compartment cups prior to the start of each cycle. Liquid supplies can be injected directly into the supply dispenser by an external chemical supply system.

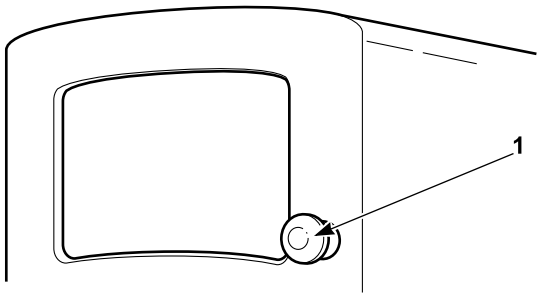
   NOTE: Supply dispenser compartment cups must not be removed when an external chemical injection supply system is attached to the machine.
2. If display has gone blank due to sitting idle, press the ⌂ keypad.
3. Press the ▲ or ▼ keypad to scroll through the cycle list.

   NOTE: Refer to the Programming Manual to customize a cycle.
4. Press the ◈ keypad to start the highlighted cycle.

   NOTE: Refer to the Programming Manual to Rapid Advance a cycle.
5. When a cycle is complete, the control displays "Cycle Complete".

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Emergency Stop Button



1. Emergency Stop Button

Figure 50

1. Press red emergency stop button to stop all action.
2. To restart the machine, pull red emergency stop button out and press START (enter) on the control.

Shakeout Routine

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

A Shakeout agitation step is programmed at the end of every cycle and will help prevent tangling of the load.

The Shakeout time is set at the factory to agitate for 40 seconds. Refer to **Programming Manual** to disable or change the time of the Shakeout.

Basket Jog Feature (160 and 200 Pound Models Only)

With the door open and the control in Cycle Menu, press and HOLD both jog buttons with both hands. A series of loud beeps will occur, indicating the jog feature is about to start.

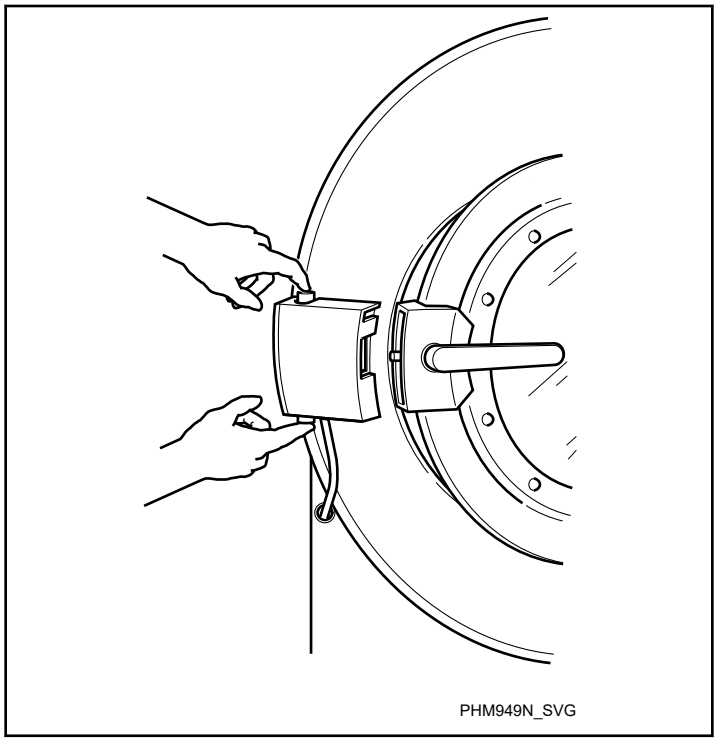


Figure 51

The jog feature is deactivated when the loading door is closed and the jog buttons are not pressed.

WARNING

To avoid personal injury, do NOT reach into the basket while it is rotating. Keep all personnel at a safe distance from the machine while using the Basket Jog Feature.

W641

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Maintenance

Routine maintenance maximizes operating efficiency and minimizes downtime. The maintenance procedures described below will prolong the life of the machine and help prevent accidents.

WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.

W366R1

CAUTION

Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

SW019

Follow local codes for proper advise on laundering infected garments.

The following maintenance procedures must be performed regularly at the required intervals.

Daily

IMPORTANT: Replace all panels that are removed to perform maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

WARNING

Do not spray the machine with water. Short circuiting and serious damage may result.

unique_69_Connect_42_note-1437506691659

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Inspect the door interlock before starting operation.
   a. Attempt to start the machine with the door open. The machine should not start.
   b. Close the door without locking it and start the machine. The machine should not start.
   c. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, disconnect power and call a service technician.

2. Inspect the water inlet valve hose connections on the back of the machine for leaks.
3. Inspect the chemical connections for machines equipped with an automatic chemical supply system by inspecting all connections and chemical hoses for leaks or cracks.
4. If applicable, inspect the steam hose connections for leaks.
5. If the machine is equipped with a premium Wet Clean module, inspect the water recirculation pipe connections to make sure that they are tight and do not leak.
6. Ensure all panels and guards are properly installed.

End of Day

1. Clean the wash drum, door glass, and door gasket of residual detergent and all foreign matter.
2. Clean the chemical dispenser, flushing with clean water.
3. Clean the machine's exposed surfaces with all-purpose cleaner.

   IMPORTANT: Use only isopropyl alcohol to clean graphic overlays. DO NOT use ammonia based or vinegar-based cleans on overlays.

   NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup. Leave loading door and dispenser lid open at the end of each completed cycle to allow moisture to evaporate.
4. If applicable, clean the AC invert drive filter.
   a. Remove the external plastic cover which contains the filter.
   b. Remove the foam filter from the cover.
   c. Wash the filter with warm water and allow to air dry. Filter can be vacuumed clean.

      NOTE: The control module and drive box cover and fan filter must be in place for the fan to properly cool the AC inverter drive and front end control. Failure to observe this warning will void the warranty and could lead to expensive AC inverter drive repair or front end control replacement.

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5. Leave the loading door and dispenser lid open to allow moisture to evaporate.

   NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup.

6. Shut off water supply.

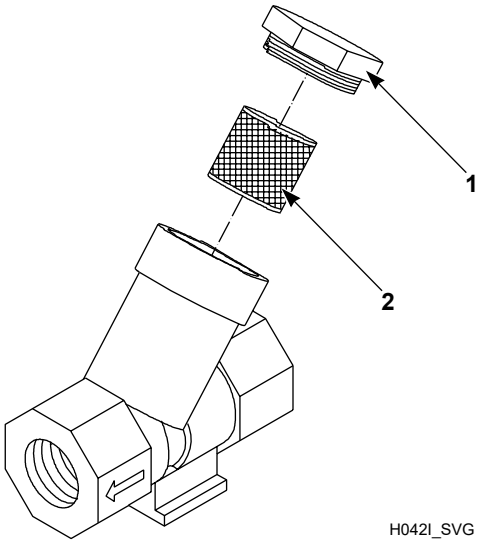
Monthly

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures.

1. Inspect the electrical connections for looseness. Tighten as required after disconnecting power.
   a. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
2. Clean inlet hose filter screens.
   a. Turn water off and allow valve and water line to cool, if necessary.
   b. Unscrew inlet hose from the faucet and remove filter screen.
   c. Clean with soapy water and reinstall. Replace if worn or damaged.
   d. Repeat procedure with the filter located inside the valve at the back of the machine.

      NOTE: All filter screens should be replaced every five years.

3. If applicable, clean the customer-supplied steam filter. Refer to *Figure 52* .
   a. Turn off steam supply and allow time for the valve to cool.
   b. Unscrew cap.
   c. Remove element and clean.
   d. Replace element and cap.



1. Cap
2. Steam Filter Element

Figure 52

4. For electric heat models only, inspect heating elements for excess debris by rotating basket to view them through its perforations. Remove drain valve hose to access and clear debris with pliers. Replace element(s) if necessary.

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NOTE: Lint buildup may take several months to occur. Inspect heating elements a minimum of every 6 months.

5. Lubricate the barings each month or after every 200 hours of operation. Visually inspect grease line for air pockets, purging air pockets as necessary.

The grease must have the following characteristics:

- NLGI Grade 2
- Lithium-based
- Water-insoluble
- Anti-rusting
- Anti-oxidizing
- Mechanically stable

The grease must have adequate base oil viscosity with one of the following ratings:

- ISO VG 150 (709–871 SUS at 100°F [135–165 cSt at 40°C])
- ISO VG 220 (1047–1283 SUS at 100°F [198–242 cSt at 40°C])
- An SAE 40 rating is also acceptable as long as the cSt or SUS values are within the specified ranges.

Pump the grease gun slowly, permitting only 2 strokes.

NOTE: Do not pump the grease gun until grease comes out of the bearing housing. This can result in over lubrication, causing damage to bearings and seals.

Yearly

NOTE: Disconnect power to the machine at its source before performing maintenance procedures.

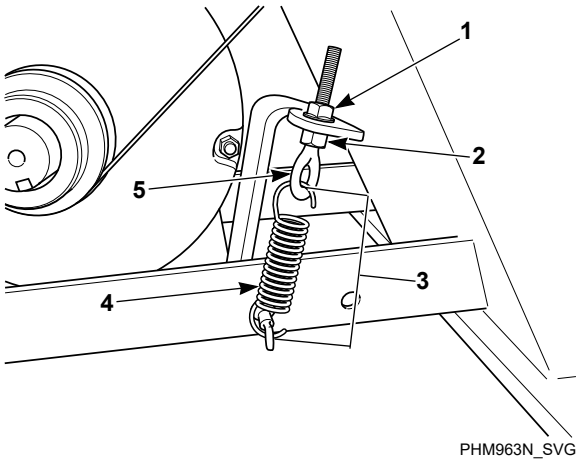
1. Remove the front panel(s) and rear access panels and inspect all hose, drain, and overflow connections/clamps for leaks. Inspect all hoses for visible signs of deterioration. Replace as necessary.
2. Inspect the belt for unusual wear, frayed edges, and improper belt tension, replacing belts and/or adjusting tensioning elements as necessary.

   NOTE: Belts must not be twisted and must be properly seated on pulleys. Belt must be centered on basket pulley within .04 inches [1 mm].

   a. Use the following procedures to determine if belt(s) require replacement or adjustment. Call a qualified service technician in either case.

      NOTE: Basket pulley must be rotated three (3) full turns before assessing belt tension after every adjustment.

      - **Frequency Gauge.** Tighten eyebolt top nut until the correct frequency (refer to *Table 6*) is obtained mid-span. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 53* .



1. Top Nut
2. Jam Nut
3. Spring Length
4. Spring
5. Eyebolt

Figure 53

      - **Tension Gauge.** Tighten eyebolt top nut until the proper belt gauge (refer to *Table 6*) is obtained mid-span. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 53* .
      - **Spring Length.** Tighten eyebolt top nut until the spring measures the correct distance between the hooks. Refer to *Table 42* . Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 53* .

Spring Length, in. [mm]	
Model	**Distance Between Hooks**
45-65	4-1/16 [103]
85-105	5-7/16 [139]
130-160	5-7/8 [149]
200	6-7/16 [165]

Table 42

      - **Maintain Tension During Belt Removal.** If proper tension is achieved, tape the jam nut in place and loosen eyebolt top nut to release the belt. Replace belt and retighten eyebolt top nut back to jam nut position. Refer to *Figure 53* .

      IMPORTANT: All torque joints must remain dry (non-lubricated).

   b. Verify that belt is properly aligned by checking pulley alignment. On 45-105 pound models, the motor pulley should align with end of motor shaft to align belts. On

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130-160 pound models, slide the motor pulley along the motor shaft and secure once belt alignment on the sheave is attained.

1. Install belt on basket sheave.
2. Install belt on motor pulley.
3. Insert belt in appropriate motor pulley grooves so belt rides on the center of the basket sheave. Belt must be centered on basket pulley within .04 inch [1 mm].

Belt Tension by Frequency or Belt Tension Gauge			
Model	**Frequency (Hz)**	**Belt Tension (lbs.)**	**Tension Gauge (N)**
45-65	58 ± 2	108 ± 7	481 ± 32
85-105	62 ± 2	183 ± 11	816 ± 52
130-160	52 ± 1	214 ± 16	954 ± 72
200	61 ± 1	300 ± 16	1335 ± 72

Table 43

3. Remove any accumulated debris on or near the motor and motor variable frequency drive heat sinks, if applicable.
4. If applicable, unlock or unscrew the top cover and inspect the supply dispenser hoses and hose connections for visible signs of deterioration. Replace hoses if worn or damaged.

   NOTE: Hoses and other natural rubber parts deteriorate after extended use. Hoses may develop cracks, blisters or material wear from the temperature and constant high pressure they are subjected to.
5. Remove any dust from all electrical components, including coin acceptors if applicable, with compressed air.
6. Inspect hardware for any loose nuts, bolts, screws.
   a. Check the tightness of the motor spring and motor pulley hardware. Also check that the eyebolt is tightened properly.
   b. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.
   c. Check the bearing mounting bolts to make sure they are torqued properly. Torque value should be 357 ± 35 ft-lbs.
   d. Tighten door hinges and fasteners, if necessary.
7. Place a large magnet over the normally-closed ball switch to verify the stability switch operation.
8. From the rear of the machine, locate the air trap hose through the hole in the frame. Remove and check for debris.
9. Ensure all panels and guards are properly reinstalled.
   a. Verify that the drain motor shield is in place and secure, if so equipped.
10. Run factory test, reference programming manual for procedure details and components tested.

    NOTE: Refer to the Programming Manual for procedure details and components tested.
11. Inspect all painted surfaces for exposed metal. Replace or repaint if necessary.
    - If bare metal is showing, paint with primer or solvent-based paint.
    - If rust appears, remove it with sandpaper or by chemical means. Repaint with primer or solvent-based paint.
12. Torque anchor bolts and inspect grout for cracking.

    NOTE: Refer to the Installation Manual for anchor bolt specifications.

    IMPORTANT: All torque joints must remain dry (non-lubricated).
13. Every 5 years replace inlet hoses, hose screens, belt, and fan filter (if applicable).

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Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
- If the stainless steel appears to be rusting, the source of the rust may be an iron or steel part not made of stainless steel, such as a nail or screw.
- Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sterilizing solutions on stainless steel equipment for prolonged periods of time.
- When an external chemical supply is used, ensure no siphoning of chemicals occurs when the machine is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components within the machine. Damage of this kind is not covered by the manufacturer’s warranty. Locate the pump and tubing below the machine’s injection point to prevent siphoning of chemicals into the machine.

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Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 54* . Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

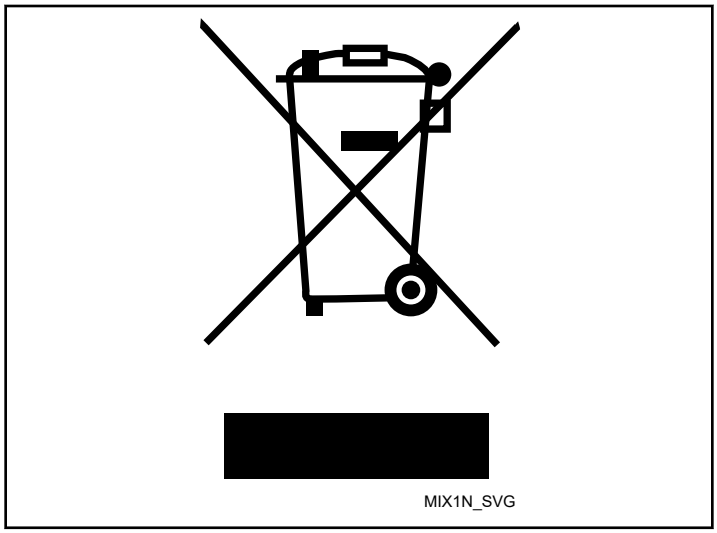


Figure 54

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China Restriction of hazardous substances (RoHS)

The Table of Hazardous Substances/Elements and their Content As required by China's Management Methods for Restricted Use of Hazardous Substances in Electrical and Electronic Products

Hazardous substances						
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR[VI])	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCBs	X	O	O	O	O	O
Electromechanical Parts	O	O	O	O	O	O
Cables and Wires	O	O	O	O	O	O
Metal Parts	O	O	O	O	O	O
Plastic Parts	O	O	O	O	O	O
Batteries	O	O	O	O	O	O
Hoses and Tubing	O	O	O	O	O	O
Timing Belts	O	O	O	O	O	O
Insulation	O	O	O	O	O	O
Glass	O	O	O	O	O	O
Display	O	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T-11364.

O: Indicates that the content of said hazardous substance in all of the homogenous materials in the component is within the limits required by GB/T 26572.

X: Indicates that the content of said hazardous substance exceeds the limits required by GB/T 26572 in at least one homogenous material in the component.

All parts named in this table with an "X" are in compliance with the European Union's RoHS Legislation.

NOTE: The referenced Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity.



This product under normal use, durable years of environmental protection is 15 years.

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Fire Soaps Solid Timer Delivery System & Dispenser Bowl



Fire Soaps Solid Timer Delivery System

- The original and best seller
- Used with Fire Soaps dispensing bowl
- Easy to install
- All hardware included
- Provides consistent delivery of Fire Soaps solid detergent
- 1 year warranty against defective material and workmanship under normal use and service



Fire Soaps Solid Dispenser Bowl

- Used to feed Fire Wash Solid detergent into washer/extractor
- Use together with either manual or automatic timer
- Easy to mount
- Includes mounting hardware
- Minimum 15 PSI / Maximum 40 PSI
- Maintenance free
- Individual components in the Bowl are replaceable
- 1 year warranty against defective material and workmanship under normal use and service

For Use With:

WARRANTY

The Fire Soaps Automatic Detergent Timer has a one year limited warranty against defective material and workmanship under normal use from the date of purchase. This limited warranty does not apply to any automatic timer which has a life shorter than one year as a result of damage caused by chemicals, corrosion, improper voltage supply, physical abuse or misapplication. Rubber and synthetic rubber parts such as “O” rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. This warranty is extended only to the original buyer of our automatic timer. If the automatic timer is altered or repaired without the prior approval of Fire Soaps, this warranty will be void.

Defective units or parts should be returned to the factory with transportation prepaid. If inspection shows them to be defective, they will be repaired or replaced without charge, F.O.B. factory. Defensive Solutions Corp/Firesoaps.com assumes no liability for damages. Return Merchandise Authorization (RMA) number to return units for repair or replacement must be granted in advance of return.

Rev. 1. 3/2010

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FIRE SOAPS AUTOMATIC TIMER

INSTALLATION INSTRUCTIONS

The Fire Soaps Automatic Detergent timer is a one product, push button operated detergent dispenser for washing machines/extractors. The system requires a 110-volt outlet for power. This system has the option of engaging the lockout by snipping one leg of the “high” resistor on the circuit board. *This is a new feature - Please see the section on LOCKOUT for further information. The unit itself is a 110 volt power supply into a 110 volt circuit board. The 110 volt AC output on the white base in the bottom right hand corner of the circuit board goes through a step down transformer and 24 volts AC are fed to the solenoid on the right hand side of the dispenser.

MOUNTING & INSTALLATION

1. MOUNTING & POWER SUPPLY - Use the screws and anchors provided to mount the unit. Make sure that the unit is within reach of a 110-volt outlet. Plug the unit in but DO NOT turn it on.

2. TUBING - Run 1/4” OD tubing from the water supply in the back of the washing machine to the inlet (rear) fitting of the solenoid on the right hand side of the dispenser. Measure and cut another piece of 1/4” OD supply tubing to go between the output (front) fittings of the solenoid to the top of the dispenser bowl.

3. Tighten all fittings. Be certain not to over tighten the fittings

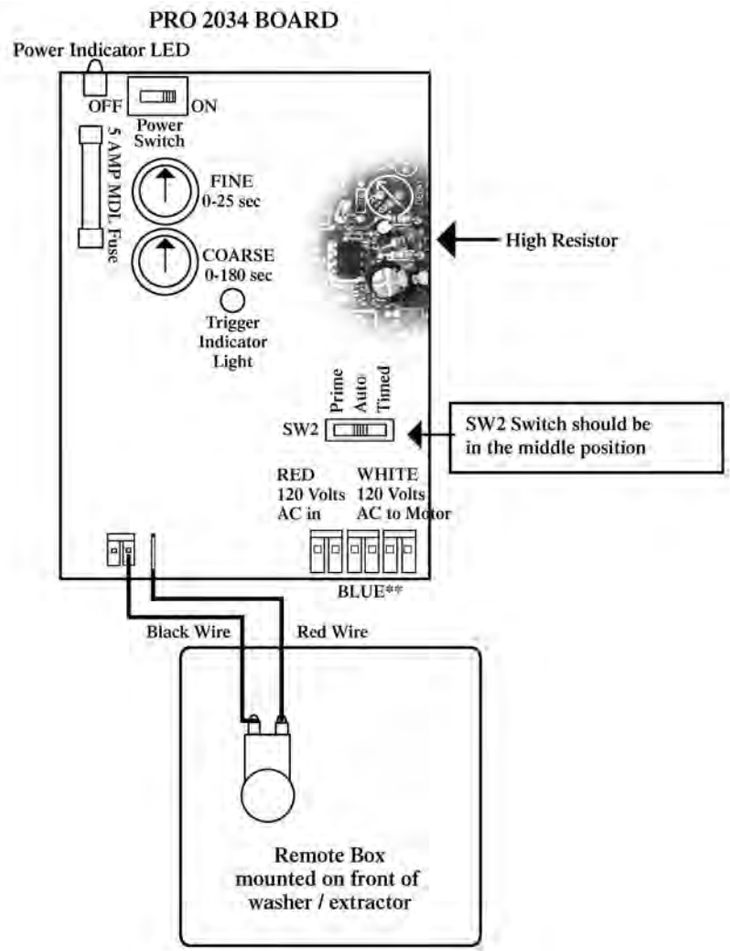
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PRO 2034 MANUAL LAUNDRY CIRCUIT BOARD & REMOTE BOX LAYOUT

SEE THE CONTROL BOARD LAYOUT FOR ADDITIONAL INFORMATION

The circuit board in the automatic timer has a power switch, a power indicator light and a fuse. There are also two potentiometers for run time control. They are in the center of the board, near the top, and marked FINE (0-25 seconds) and COARSE (0-180 seconds). The top potentiometer, FINE, controls a run time of 0-25 seconds (2.5 seconds of run time per increment). The bottom potentiometer, COARSE, controls a run time of 0-180 seconds (18 seconds of run time per increment). For longer run times, use the bottom potentiometer and fine-tune the run time with the 0-25 second control.



LOCKOUT - WHAT DOES IT MEAN? - HOW TO ENGAGE?

MAKE SURE THAT THE POWER SWITCH IS OFF BEFORE ENGAGING LOCKOUT

All units arrive now without the lockout engaged. This is intended to speed up the Installation for those who will be using the lockout. The lockout should be engaged ONLY AFTER the unit is installed, all tubing is installed, AND the run times have been set and verified.

WHAT DOES THE LOCKOUT DO? The Lockout is intended to prevent the over use of detergents or the "If a little detergent cleans, then a lot of detergent must REALLY clean" theory. Once the lockout is engaged the following will occur: Once the user presses the remote button and starts a cycle, the solenoid will open and run for the length of time that was set during installation. A lockout begins for approximately three minutes during which the user cannot start another cycle. If the button is pressed again after a period of time LESS than the three minute lockout period, the clock is reset and the user must wait another three minutes before the detergent can be dispensed from the pump.

TO ENGAGE THE LOCKOUT – Turn the unit's power switch to the OFF position. Unplug the unit from the wall. Refer to the board drawing for this resistor location. Cut one of the side leads of the high resistor to engage the lockout. Leave enough of the neutral wire, the leg, on either side so that you can use an alligator jumper in the event that you need to trouble shoot the unit at some point in the future.

KEEP IN MIND - Once the lockout has been engaged, it affects the verify run time position. That is, if the installer wants to change the run time of the pump with lockout and verify time or quantity, the installer will have to wait the full three minutes after triggering the pump with the switch or remote before being able to dispense again.

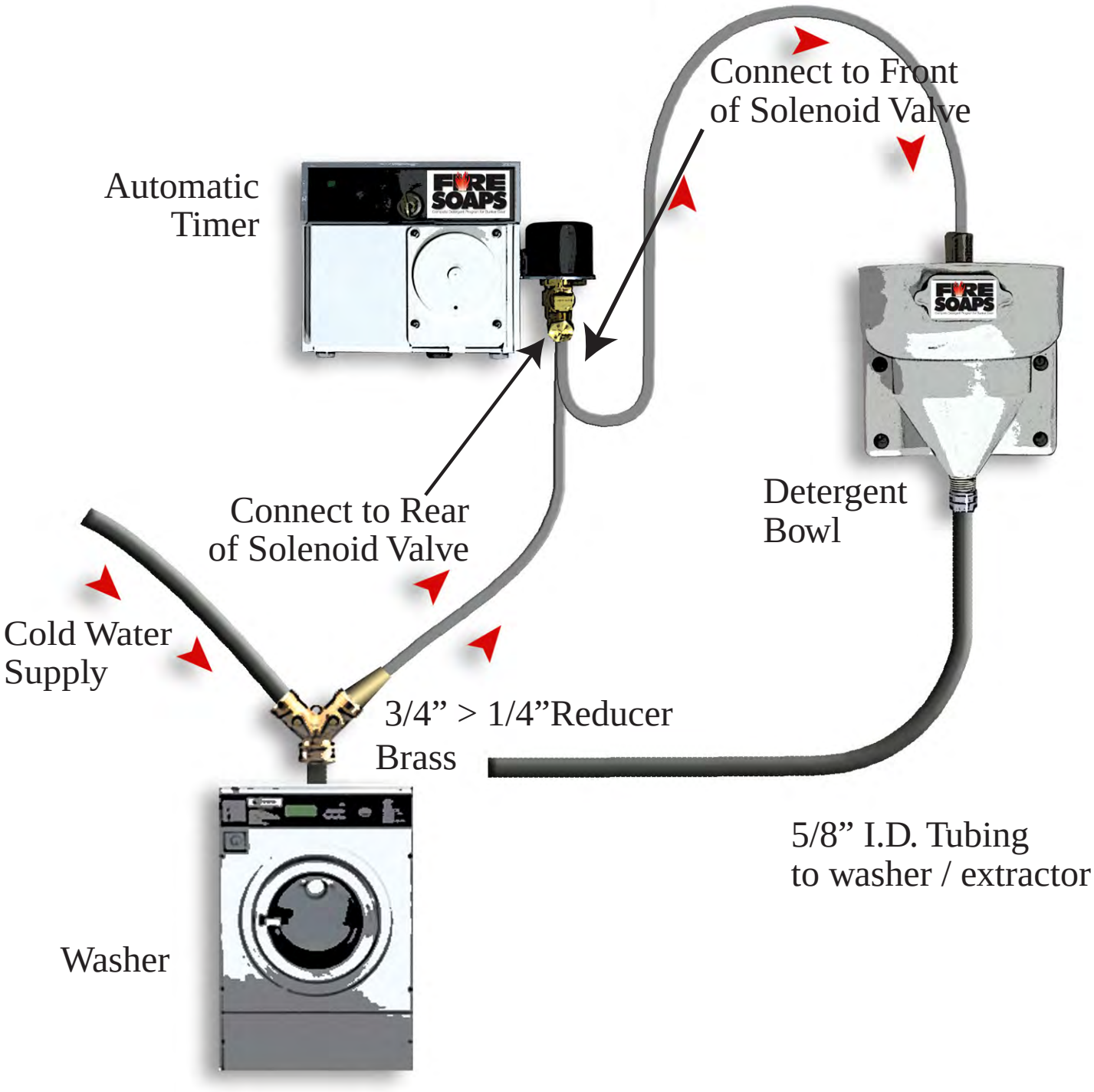
BEFORE LEAVING THE INSTALLATION

1. Make sure that the three position switches are in the center position (See Illustration) and that the green power indicator light on the front of the lid is lit to indicate that the power is on.

2. If you have engaged the lockout on the unit, make the end user(s) is (are) aware so as to avoid unwanted trouble calls

FIRE SOAPS
Complete Detergent Program for Bunker Gear

Automatic Timer Set-Up



FIRE WASH DISPENSER BOWL

INSTALLATION INSTRUCTIONS

Choose a location on the wall that will allow the detergent to be gravity fed to the washing machine/extractor. You don't want to be more than 5' from the bottom of the Fire Soaps Dispenser Bowl to the washing machine/extractor. The timer and dispenser do not have to be installed next to each other. You can mount the timer so it is easily accessible to the operator. The bowl can be mounted at a higher elevation for ease of gravity feeding into the washing machine/extractor. The 5/8" I.D. clear PVC tubing from the Bowl should run down to the injection point with no loops, sags, restrictions or kinks in the line.

1. Mount the Fire Soaps Dispenser Bowl using the screws and anchors provided. Position the dispenser bowl within easy reach of the operator. Allow enough room above the dispenser bowl to insert and remove the Fire Wash containers.

2. Either put the feed hose from the bottom of the dispenser into the soap dispenser on top of the washer or into the vent which is located in the back of the machine. This will feed the detergent directly to the wash wheel.

3. Attach the clear 5/8" I.D. dispensing tubing to the bottom of the Fire Soaps Dispenser Bowl. Pull the other end of the tubing in line with the washing machine's/extractor's input space and cut off any extra tubing so that the line does not sag. Be sure to leave enough tubing so it can dispense product without spilling onto the washing machine/ extractor.

SPECIFICATIONS & RECOMMENDED OPERATING CONDITIONS

Water Pressure: **Minimum 15 PSI / Maximum 45 PSI** - If necessary, pressure can be adjusted by installing an in-line regulator to control the water pressure to the Fire Soaps Dispenser Bowl.

Water Temperature: **We do not recommend setting your hot water heater to more than 135 degrees Fahrenheit**. An increase in water temperature will result in an increased consumption of detergent.

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WARRANTY

The Fire Soaps Automatic Detergent Timer has a one year limited warranty against defective material and workmanship under normal use from the date of purchase. This limited warranty does not apply to any automatic timer which has a life shorter than one year as a result of damage caused by chemicals, corrosion, improper voltage supply, physical abuse or misapplication. Rubber and synthetic rubber parts such as “O” rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. This warranty is extended only to the original buyer of our automatic timer. If the automatic timer is altered or repaired without the prior approval of Fire Soaps, this warranty will be void.

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INSTALLATION INSTRUCTIONS

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MOUNTING & INSTALLATION

1. MOUNTING & POWER SUPPLY - Use the screws and anchors provided to mount the unit. Make sure that the unit is within reach of a 110-volt outlet. Plug the unit in but DO NOT turn it on.

2. TUBING - Run 1/4” OD tubing from the water supply in the back of the washing machine to the inlet (rear) fitting of the solenoid on the right hand side of the dispenser. Measure and cut another piece of 1/4” OD supply tubing to go between the output (front) fittings of the solenoid to the top of the dispenser bowl.

3. Tighten all fittings. Be certain not to over tighten the fittings

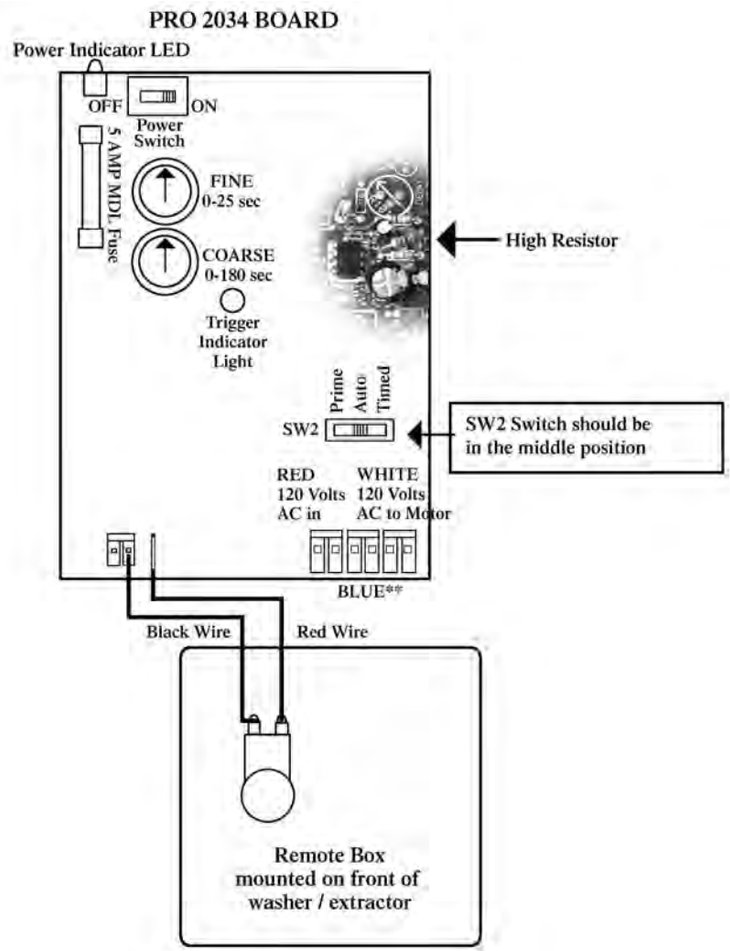
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PRO 2034 MANUAL LAUNDRY CIRCUIT BOARD & REMOTE BOX LAYOUT

SEE THE CONTROL BOARD LAYOUT FOR ADDITIONAL INFORMATION

The circuit board in the automatic timer has a power switch, a power indicator light and a fuse. There are also two potentiometers for run time control. They are in the center of the board, near the top, and marked FINE (0-25 seconds) and COARSE (0-180 seconds). The top potentiometer, FINE, controls a run time of 0-25 seconds (2.5 seconds of run time per increment). The bottom potentiometer, COARSE, controls a run time of 0-180 seconds (18 seconds of run time per increment). For longer run times, use the bottom potentiometer and fine-tune the run time with the 0-25 second control.



LOCKOUT - WHAT DOES IT MEAN? - HOW TO ENGAGE?

MAKE SURE THAT THE POWER SWITCH IS OFF BEFORE ENGAGING LOCKOUT

All units arrive now without the lockout engaged. This is intended to speed up the Installation for those who will be using the lockout. The lockout should be engaged ONLY AFTER the unit is installed, all tubing is installed, AND the run times have been set and verified.

WHAT DOES THE LOCKOUT DO? The Lockout is intended to prevent the over use of detergents or the "If a little detergent cleans, then a lot of detergent must REALLY clean" theory. Once the lockout is engaged the following will occur: Once the user presses the remote button and starts a cycle, the solenoid will open and run for the length of time that was set during installation. A lockout begins for approximately three minutes during which the user cannot start another cycle. If the button is pressed again after a period of time LESS than the three minute lockout period, the clock is reset and the user must wait another three minutes before the detergent can be dispensed from the pump.

TO ENGAGE THE LOCKOUT – Turn the unit's power switch to the OFF position. Unplug the unit from the wall. Refer to the board drawing for this resistor location. Cut one of the side leads of the high resistor to engage the lockout. Leave enough of the neutral wire, the leg, on either side so that you can use an alligator jumper in the event that you need to trouble shoot the unit at some point in the future.

KEEP IN MIND - Once the lockout has been engaged, it affects the verify run time position. That is, if the installer wants to change the run time of the pump with lockout and verify time or quantity, the installer will have to wait the full three minutes after triggering the pump with the switch or remote before being able to dispense again.

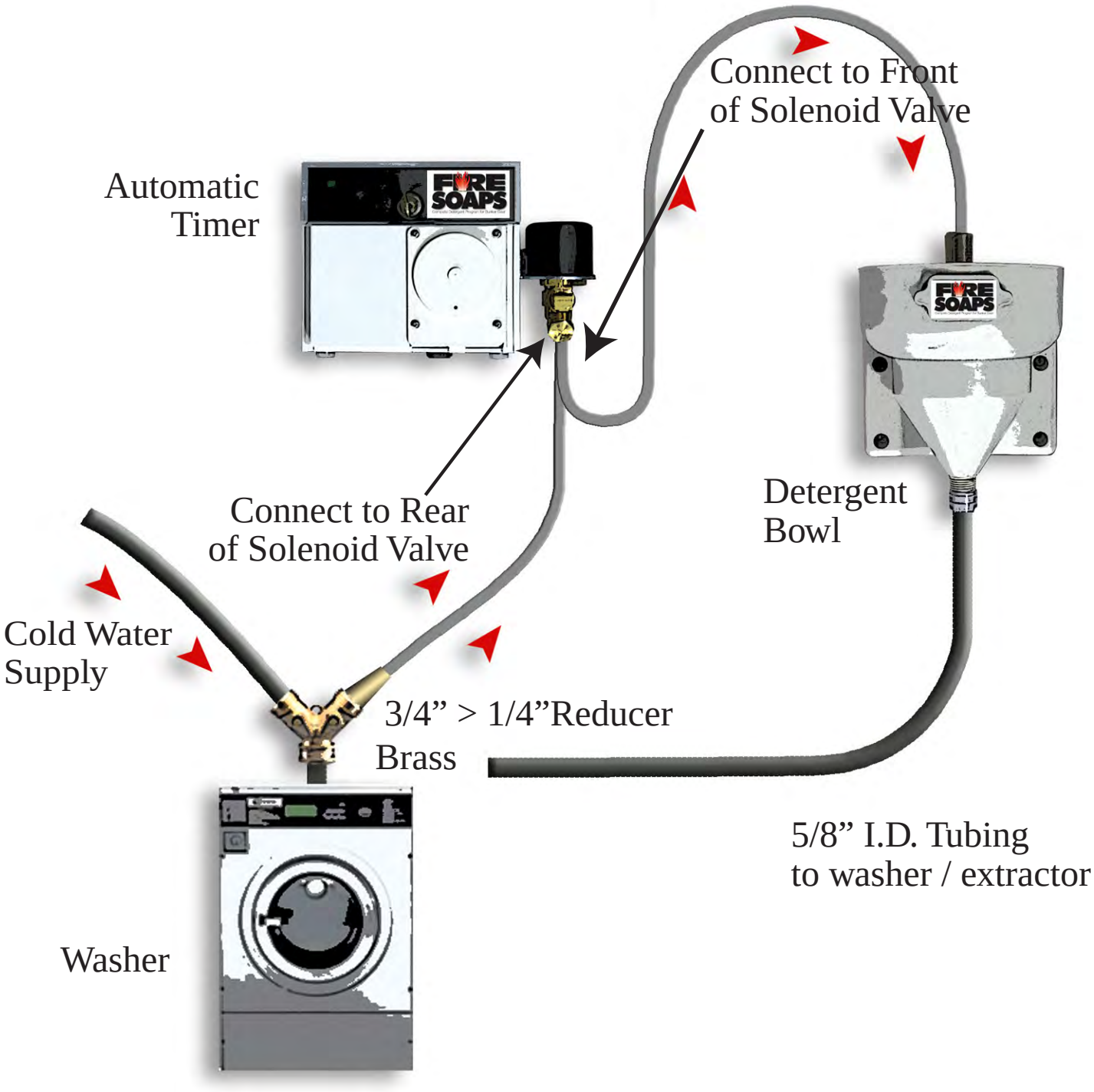
BEFORE LEAVING THE INSTALLATION

1. Make sure that the three position switches are in the center position (See Illustration) and that the green power indicator light on the front of the lid is lit to indicate that the power is on.

2. If you have engaged the lockout on the unit, make the end user(s) is (are) aware so as to avoid unwanted trouble calls

FIRE SOAPS
Complete Detergent Program for Bunker Gear

Automatic Timer Set-Up



FIRE WASH DISPENSER BOWL

INSTALLATION INSTRUCTIONS

Choose a location on the wall that will allow the detergent to be gravity fed to the washing machine/extractor. You don't want to be more than 5' from the bottom of the Fire Soaps Dispenser Bowl to the washing machine/extractor. The timer and dispenser do not have to be installed next to each other. You can mount the timer so it is easily accessible to the operator. The bowl can be mounted at a higher elevation for ease of gravity feeding into the washing machine/extractor. The 5/8" I.D. clear PVC tubing from the Bowl should run down to the injection point with no loops, sags, restrictions or kinks in the line.

1. Mount the Fire Soaps Dispenser Bowl using the screws and anchors provided. Position the dispenser bowl within easy reach of the operator. Allow enough room above the dispenser bowl to insert and remove the Fire Wash containers.

2. Either put the feed hose from the bottom of the dispenser into the soap dispenser on top of the washer or into the vent which is located in the back of the machine. This will feed the detergent directly to the wash wheel.

3. Attach the clear 5/8" I.D. dispensing tubing to the bottom of the Fire Soaps Dispenser Bowl. Pull the other end of the tubing in line with the washing machine's/extractor's input space and cut off any extra tubing so that the line does not sag. Be sure to leave enough tubing so it can dispense product without spilling onto the washing machine/ extractor.

SPECIFICATIONS & RECOMMENDED OPERATING CONDITIONS

Water Pressure: **Minimum 15 PSI / Maximum 45 PSI** - If necessary, pressure can be adjusted by installing an in-line regulator to control the water pressure to the Fire Soaps Dispenser Bowl.

Water Temperature: **We do not recommend setting your hot water heater to more than 135 degrees Fahrenheit**. An increase in water temperature will result in an increased consumption of detergent.

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ADVANCE TABCO®
SMART FABRICATION™

STAINLESS STEEL

WALL SHELVES NSF



Item #: _____ Qty #: _____
Model #: _____
Project #: _____



FEATURES:

Brackets can be positioned to accommodate wall studs.

Furnished with a 1-5/8" Bullnose edge with a 1-1/2" turn-up edge at rear. Ends are turned down square.

MATERIAL:

16 Gauge Series - 304 stainless steel polished to a satin finish.

18 Gauge Series - 430 stainless steel polished to a satin finish.

CONSTRUCTION:

Secured to wall by means of bolts through support brackets.

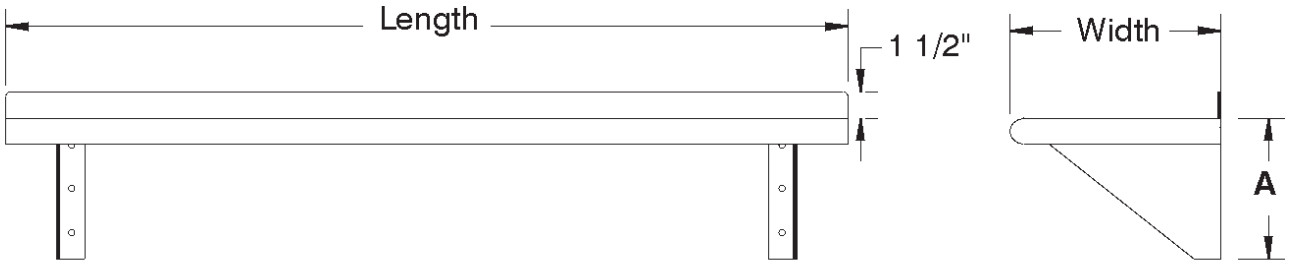
Units 7 ft. and larger are furnished with 3 brackets.

	10" Wide			12" Wide			15" Wide			18" Wide			
L	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	Approx. Cu. Ft.
24"	WS-10-24-16	WS-10-24	8 lbs.	WS-12-24-16	WS-12-24	9 lbs.	WS-15-24-16	WS-15-24	11 lbs.	WS-18-24-16	WS-18-24	14 lbs.	3
36"	WS-10-36-16	WS-10-36	10 lbs.	WS-12-36-16	WS-12-36	12 lbs.	WS-15-36-16	WS-15-36	15 lbs.	WS-18-36-16	WS-18-36	21 lbs.	4
48"	WS-10-48-16	WS-10-48	12 lbs.	WS-12-48-16	WS-12-48	14 lbs.	WS-15-48-16	WS-15-48	18 lbs.	WS-18-48-16	WS-18-48	24 lbs.	5
60"	WS-10-60-16	WS-10-60	15 lbs.	WS-12-60-16	WS-12-60	17 lbs.	WS-15-60-16	WS-15-60	23 lbs.	WS-18-60-16	WS-18-60	28 lbs.	6
72"	WS-10-72-16	WS-10-72	17 lbs.	WS-12-72-16	WS-12-72	21 lbs.	WS-15-72-16	WS-15-72	28 lbs.	WS-18-72-16	WS-18-72	32 lbs.	7
84"	WS-10-84-16	WS-10-84	20 lbs.	WS-12-84-16	WS-12-84	25 lbs.	WS-15-84-16	WS-15-84	32 lbs.	WS-18-84-16	WS-18-84	36 lbs.	8
96"	WS-10-96-16	WS-10-96	23 lbs.	WS-12-96-16	WS-12-96	28 lbs.	WS-15-96-16	WS-15-96	36 lbs.	WS-18-96-16	WS-18-96	42 lbs.	10
108"	WS-10-108-16	WS-10-108	28 lbs.	WS-12-108-16	WS-12-108	32 lbs.	WS-15-108-16	WS-15-108	40 lbs.	WS-18-108-16	WS-18-108	48 lbs.	11
120"	WS-10-120-16	WS-10-120	32 lbs.	WS-12-120-16	WS-12-120	36 lbs.	WS-15-120-16	WS-15-120	44 lbs.	WS-18-120-16	WS-18-120	54 lbs.	12
132"	WS-10-132-16	WS-10-132	36 lbs.	WS-12-132-16	WS-12-132	42 lbs.	WS-15-132-16	WS-15-132	49 lbs.	WS-18-132-16	WS-18-132	60 lbs.	13
144"	WS-10-144-16	WS-10-144	40 lbs.	WS-12-144-16	WS-12-144	48 lbs.	WS-15-144-16	WS-15-144	55 lbs.	WS-18-144-16	WS-18-144	66 lbs.	14

DETAILS and SPECIFICATIONS

TOL ± .500”

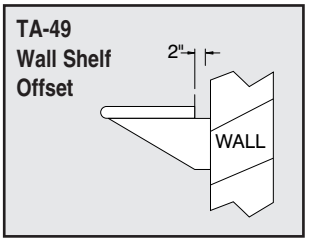
ALL DIMENSIONS ARE TYPICAL



Width	A
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12”	10 1/2”
15”	13 1/2”
18”	16 1/2”

Wall Shelf Options

PRT-1	Printer Shelf
TA-22A	Square Edge Shelf
TA-26	Welded Shelf Brackets
TA-49	Wall Shelf 2” Offset
TA-71	Heat Lamp Provision
TA-77	Check Minder
TA-77A	Concealer for Heat Lamp (Requires TA-77)
TA-99A	14 Ga. S/S 304 Upgrade for Overshelves
TA-100A	Bullnose Edge On All 4 Sides of Shelf
TA-102	6” Cantilever Shelf Offset





Requirements for NSF Installations

1. Install at least 60” above floor.
2. Limit to dry storage.
3. Avoid contact with liquids.
4. For “Ganging-Up” installation, allow at least 2” between units or mount units side by side and seal joints with an approved sealant.

ADVANCE TABCO

SMART FABRICATION™

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

200 Heartland Boulevard, Edgewood, NY 11717-8380

© ADVANCE TABCO, DECEMBER 2016

Internet # 325808129 Model # WA47CG3500AV Store SKU # 1010022903 Store SO SKU #1009906

119B.04

Top Rated

Samsung

4.7 cu.ft. Large Capacity Smart Top Load Washer with Active WaterJet in Brushed Black

(402) Questions & Answers (91)



Hover Image to Zoom

Share Print

- 4.7 cu. ft. Large Capacity Smart Top Load Washer
- Pairs best with Electric DVE47CG3500V or Gas DVG47CG3500V Dryer
- Active WaterJet pretreats with the push of a button
- View More Details

La Crosse Store

✓ On Display

Color/Finish: **Black**

Agitator/Impeller Type: **Impeller**

Agitator | **Impeller**

Make Sure It Fits Your Space

Learn how to measure for easy installation

Get Started

Feedback

Unavailable at La Crosse

Delivering to 54650

Pickup
Unavailable

Delivery
Earliest delivery
Tue, Aug 12

Schedule your appliance delivery in checkout. Delivery cost applied in cart.

Add to Cart

Buy now and pay later with PayPal. Learn more

Complete Your Laundry Room

CURRENT ITEM



$999.00

See Low Price in Cart

(4 / 402)

Samsung
4.7 cu.ft. Large Capacity Smart Top Load Washer with Active WaterJet in Brushed Black

+

Matching Dryer ⓘ

Select



$999.00

See Low Price in Cart

(4.2 / 310)

Samsung
7.4 cu. ft. Vented Front Load Smart Electric Dryer with Sensor Dry in Brushed Black

- Electric
- Gas

=

See Lower Price In Cart

Add Bundle to Cart

Ask about this product

Get an immediate answer with AI

Type a question

Get an Answer

AI-generated from the text of manufacturer documentation. To verify or get additional information, please contact The Home Depot customer service.

Product Details



Large Capacity

Tackle more laundry in less time with a Large capacity 4.7 cu. ft. tub.



Wi-Fi Connectivity with SmartThings

Schedule, remotely start and stop your cycle, and more from your smartphone with the SmartThings app.



Active Water Jet



Vibration Reduction Technology+

About This Product

Samsung's 4.7 cu. ft. Large Capacity Top Load Washing Machine is integrated with Wi-Fi connectivity so you can receive end-of-cycle alerts and schedule laundry from your smartphone.* With Active WaterJet, a built-in water faucet, you can easily pretreat heavily soiled and stained clothes. 10 preset cycles to best suit your washing needs.

Highlights

- Our large capacity Top Load Washer means fewer loads, less time in the laundry room, and more time doing the things you love.
- Wi-Fi connected so you can receive end-of-cycle alerts, remotely start or stop your washing, schedule cycles on your time, and more, right from your smartphone with the SmartThings App
- built-in water faucet lets you easily pretreat soiled or heavily stained clothes with the press of a button. Scrub items right inside your washer, no laundry room sink needed.
- More cycles to cover almost every washing need for your active family.
- Do your laundry in peace. Our innovative Vibration Reduction Technology+ reduces noise and vibration and creates a quiet washing experience.
- The thoughtfully designed Soft-Close Lid closes safely, gently, and quietly.
- Ensure that all of your items are thoroughly soaked by selecting Extra High Water Level before starting your laundry.
- Keep your washer tub fresh and clean. Self Clean will notify you every 20 wash cycles when it is time for a cleaning.
- Easy troubleshooting from the convenience of your smartphone.* Smart Care interacts with your washer and dryer to perform an immediate diagnosis and offer quick solutions.
- The Diamond Drum Interior has smaller waterholes to prevent fabrics from snagging and beingdamaged, helping to extend clothing life.
- Samsung washers and dryers team up to makelight work of laundry day.
- Wi-Fi Connectivity with SmartThings - Remotely start, schedule, and receive end-of-cycle alerts to your smartphone
- Active WaterJet provides a built-in water faucet for easy pre-treating
- 10 preset cycles to best suit your washing needs
- Click here to shop more Samsung appliances
- Click here for more information on Electronic Recycling Programs
- California residents see Prop 65 WARNINGS

Product Information

Internet # 325808129
Model # WA47CG3500AV
Store SKU # 1010022903
Store SO SKU #1009906830

Additional Resources

Shop All Samsung

From the Manufacturer

- Energy Guide
- Specification
- Warranty
- Compatibility Chart
- Installation Guide
- Use and Care Manual

Feedback

Specifications
Dimensions: H 45.06 in, W 27 in, D 29.31 in

Questions & Answers
91 Questions

Customer Reviews
4 out of 5 ★★★★☆ (402)

Internet # 325808136 Model # DVE47CG3500V Store SKU # 1010022902 Store SO SKU #1009906

119B.05

Top Rated

Samsung

7.4 cu. ft. Vented Front Load Smart Electric Dryer with Sensor Dry in Brushed Black

(310) Questions & Answers (54)





Hover Image to Zoom

Share Print

Get up to $199 in Rebates for 54650

6 Months Everyday Financing** available on purchases of $299 or more.
Apply Now

- 7.4 cu. ft. Smart Electric Dryer
- Pairs best with WA47CG3500AV or WA46CG3505AV Washer(s)
- Sensor Dry helps prevent overdrying for optimal fabric care
- View More Details

Color/Finish: **Black**

Appliance Type: **Electric Dryer**

Electric Dryer | Gas Dryer

Make Sure It Fits Your Space

Learn how to measure for easy installation

Get Started

Unavailable at La Crosse

Delivering to 54650

Pickup
Unavailable

Delivery
Earliest delivery
Tue, Aug 12

Schedule your appliance delivery in checkout. Delivery cost applied in cart.

Add to Cart

Buy now and pay later with PayPal. Learn more

Complete Your Laundry Room

CURRENT ITEM



$999.00

See Low Price in Cart

(4.2 / 310)

Samsung
7.4 cu. ft. Vented Front Load Smart Electric Dryer with Sensor Dry in Brushed Black

+

Matching Washer

Select



$999.00

See Low Price in Cart

(4 / 402)

Samsung
4.7 cu.ft. Large Capacity Smart Top Load Washer with Active WaterJet in Brushed Black

=

See Lower Price In Cart

Add Bundle to Cart

Ask about this product

Get an immediate answer with AI

Type a question

Get an Answer

AI-generated from the text of manufacturer documentation. To verify or get additional information, please contact The Home Depot customer service.

Product Details

Specifications

Feedback

Dimensions: H 45.0394 in, W 27 in, D 30.24 in

Questions & Answers
54 Questions

Customer Reviews
4.2 out of 5 ★★★★☆ (310)



Sponsored

Whirlpool

FAMILY-SIZED CAPACITY

Space, Organization & Ice to Keep Up with Your Needs

Shop Now

Feedback

What We Offer

Delivery Services

We offer move or haul away services, and installation on most appliances when you purchase required parts.

Installation Requirements

The Home Depot Protection Plan

Get 24/7 support and our 3-day Service Guarantee

Plan Coverage and Details

48-Hour Return Policy

You can return your appliance for damages and defects within 48 hours.

Return Policy

Price Match Guarantee

We will match prices including shipping of any other online competitor.

Learn More

Delivery and Installation





Please ensure the following prior to delivery:

- A new electrical cord
- A 240V electric outlet within 4 ft. of hookup
- Verify that your outlet type matches the approved types shown above
- Empty & unplug your old appliance

Home Depot Dryer Delivery & Installation

This video will walk you through the simple steps you must take in order to ensure a successful delivery and installation of your new Dryer from The Home Depot.

LEARN MORE ABOUT DELIVERY & INSTALLATION

Washer and Dryer Dimensions

Taking accurate measurements in your home is critical when purchasing a new washer and dryer. Here are step by step instructions on how to do it correctly.

SHOP ALL WASHERS & DRYERS

Customers Also Viewed

Exclusive

Top Rated

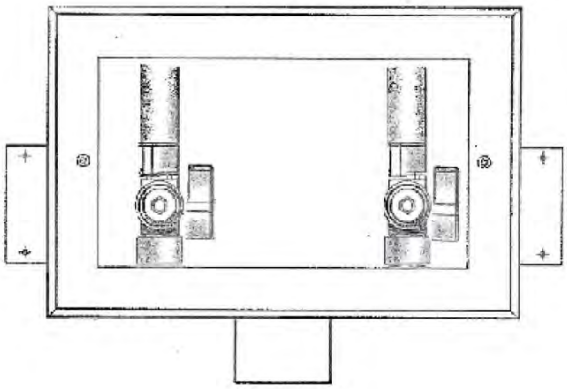
Top Rated

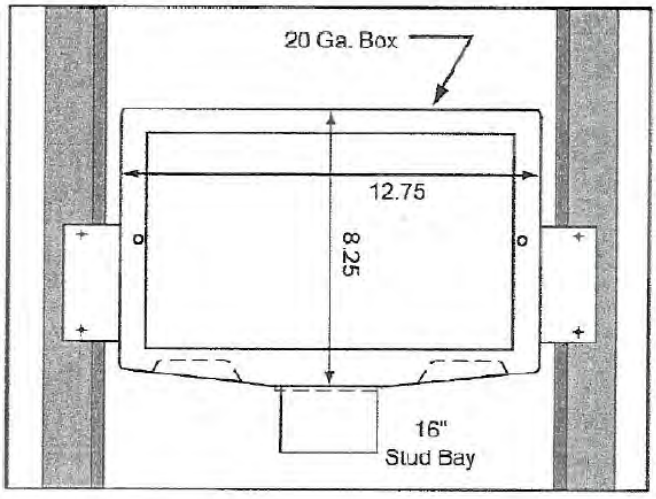
Top Rated

GUY GRAY
IPS CORPORATION

CENTER DRAIN WHITE POWDER COATED WMOB

with Quarter Turn Arrester Valves





SPECIFICATION

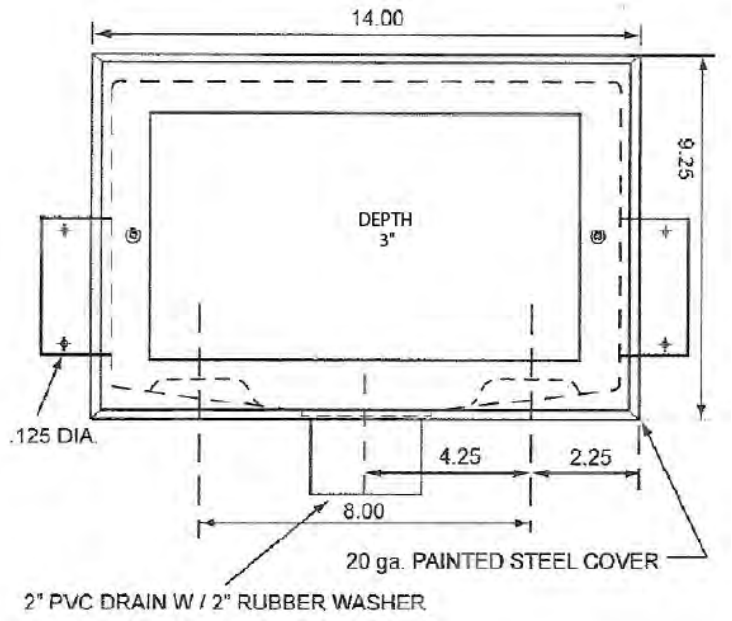
Furnish and install center drain white powder coated cold rolled steel washing machine outlet box with integral hammer arrester quarter turn valves. Unit shall be Guy Gray product code as checked below, manufactured by IPS Corporation.

BOX MATERIAL:

White powder coat on cold rolled steel
20 gauge box and 20 gauge faceplate

VALVE AND DRAIN OPTIONS:

Qtr. Turn hammer arrester valves with 1/2" MIP/ Sweat, CPVC or F1960. 2" PVC Drain.
Valves comply with ASME A112.18.1
Hammer arresters comply with ASSE 1010.



	Product Code #	Product Description	Model Number	Units/ Case
	82158	1/2" Qtr. Turn MIP/Sweat Valves w/Arresters, 2" PVC Drain Fitting	T200TPPVCCHA	6
	82159	1/2" Qtr. Turn CPVC Valves w/Arresters, 2" PVC Drain Fitting	T200TPCPVCHA	6
	82480	1/2" Qtr. Turn F1807 Valves w/Arresters, 2" PVC Drain Fitting	T200TPPVCPHA	6
	82481	1/2" Qtr. Turn F1960 Valves w/Arresters, 2" PVC Drain Fitting	T200TPPVCWHA	6

IPS CORPORATION
500 Distribution Parkway, Collierville, TN 38017 ▪ 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

ADVANCE TABCO®
SMART FABRICATION™

STAINLESS STEEL

WALL SHELVES NSF

119B.07



Item #: _____ Qty #: _____

Model #: _____

Project #: _____



FEATURES:

Brackets can be positioned to accommodate wall studs.

Furnished with a 1-5/8" Bullnose edge with a 1-1/2" turn-up edge at rear. Ends are turned down square.

MATERIAL:

16 Gauge Series - 304 stainless steel polished to a satin finish.

18 Gauge Series - 430 stainless steel polished to a satin finish.

CONSTRUCTION:

Secured to wall by means of bolts through support brackets.

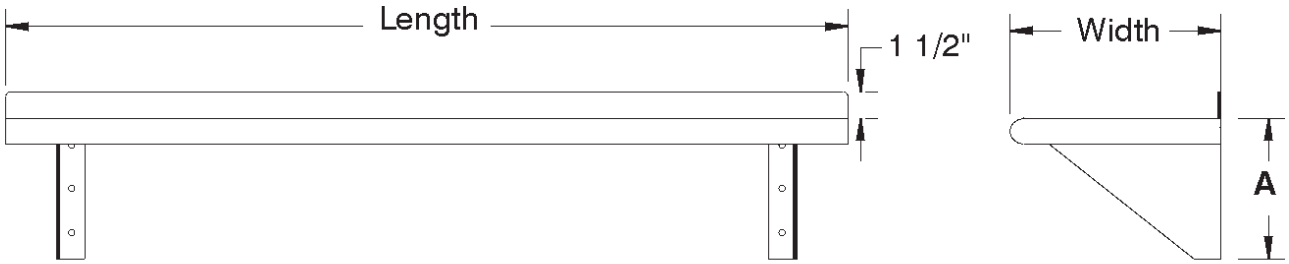
Units 7 ft. and larger are furnished with 3 brackets.

	10" Wide			12" Wide			15" Wide			18" Wide			
L	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	Approx. Cu. Ft.
24"	WS-10-24-16	WS-10-24	8 lbs.	WS-12-24-16	WS-12-24	9 lbs.	WS-15-24-16	WS-15-24	11 lbs.	WS-18-24-16	WS-18-24	14 lbs.	3
36"	WS-10-36-16	WS-10-36	10 lbs.	WS-12-36-16	WS-12-36	12 lbs.	WS-15-36-16	WS-15-36	15 lbs.	WS-18-36-16	WS-18-36	21 lbs.	4
48"	WS-10-48-16	WS-10-48	12 lbs.	WS-12-48-16	WS-12-48	14 lbs.	WS-15-48-16	WS-15-48	18 lbs.	WS-18-48-16	WS-18-48	24 lbs.	5
60"	WS-10-60-16	WS-10-60	15 lbs.	WS-12-60-16	WS-12-60	17 lbs.	WS-15-60-16	WS-15-60	23 lbs.	WS-18-60-16	WS-18-60	28 lbs.	6
72"	WS-10-72-16	WS-10-72	17 lbs.	WS-12-72-16	WS-12-72	21 lbs.	WS-15-72-16	WS-15-72	28 lbs.	WS-18-72-16	WS-18-72	32 lbs.	7
84"	WS-10-84-16	WS-10-84	20 lbs.	WS-12-84-16	WS-12-84	25 lbs.	WS-15-84-16	WS-15-84	32 lbs.	WS-18-84-16	WS-18-84	36 lbs.	8
96"	WS-10-96-16	WS-10-96	23 lbs.	WS-12-96-16	WS-12-96	28 lbs.	WS-15-96-16	WS-15-96	36 lbs.	WS-18-96-16	WS-18-96	42 lbs.	10
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DETAILS and SPECIFICATIONS

TOL ± .500”

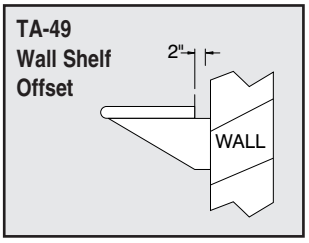
ALL DIMENSIONS ARE TYPICAL



Width	A
10”	8 1/2”
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15”	13 1/2”
18”	16 1/2”

Wall Shelf Options

PRT-1	Printer Shelf
TA-22A	Square Edge Shelf
TA-26	Welded Shelf Brackets
TA-49	Wall Shelf 2” Offset
TA-71	Heat Lamp Provision
TA-77	Check Minder
TA-77A	Concealer for Heat Lamp (Requires TA-77)
TA-99A	14 Ga. S/S 304 Upgrade for Overshelves
TA-100A	Bullnose Edge On All 4 Sides of Shelf
TA-102	6” Cantilever Shelf Offset





Requirements for NSF Installations

1. Install at least 60” above floor.
2. Limit to dry storage.
3. Avoid contact with liquids.
4. For “Ganging-Up” installation, allow at least 2” between units or mount units side by side and seal joints with an approved sealant.

ADVANCE TABCO

SMART FABRICATION™

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

200 Heartland Boulevard, Edgewood, NY 11717-8380

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119B.08

QUALITY IN PRODUCT • PRECISION IN PROCESS • STRENGTH IN PEOPLE

STAINLESS STEEL

STAINLESS STEEL



mott MANUFACTURING

ISO 9001:2008 REGISTERED

QUALITY BY DESIGN

Mott Manufacturing provides complete solutions for all your laboratory needs. We offer a full line of products featuring quality steel laboratory furniture, premium grade architectural wood casework, flexible and mobile furniture systems, high performance and custom fume hoods, custom stainless steel work surfaces and sinks. We have been serving the industrial, pharmaceutical, education, health care and government markets since the early 1960's. Since each laboratory's needs are unique, we can design and engineer products to meet your exact requirements.

Customer Satisfaction is Mott's First Priority

Delivering industry-leading customer service is more than just words to the Mott Team. We know that satisfied customers drive our success. We therefore provide our customers with the following key values:

Consistent Product Quality

Our ISO 9001 Registered Quality Management System, supported by quality materials and skilled employees, ensures only high quality product is shipped.

Just-in-Time Delivery Capability

Our six week manufacturing lead time, along with our high on-time and complete shipment performance, provide exceptional reliability to our customers.

Adaptable Product Line

Our extensive modular product line permits our customers to readily configure the most productive solution to meet their specific requirements. Our flexible manufacturing capabilities allow convenient modification of standard components to fit the unique requirements of each laboratory.

Competitive Value

Our several decades of application experience allows us to provide productive furniture solutions to our customers. This experience, along with our high product quality, custom manufacturing capability, consistently strong service levels, and competitive pricing provide high value to our customers.

Extensive Dealer Network

Our dealers are the best. We build strong relationships with our dealers to provide, in partnership, industry-leading service levels. Our dealers' on site leadership and years of experience combined with our design and manufacturing skills deliver the very best in laboratory furniture solutions.





mott MANUFACTURING

ISO 9001:2008 REGISTERED

Corporate Headquarters
452 Hardy Rd, Brantford ON, Canada N3T 5L8
T. 519.752.7825 • F. 519.752.2895

Wood Casework Division - 562 Industrial Park Rd,
P.O. Box 156, Maxwelton, WV, USA 24957
T. 304.497.2115

www.mott.ca

SEFA

AUGUST 2011

mott MANUFACTURING

ISO 9001:2008 REGISTERED

Quality Assured...

Mott's extensive stainless steel product offering is designed and manufactured to deliver practical solutions to specialized laboratory environments. Mott's stainless steel furniture and fume hoods are highly durable, easy to clean, simple to maintain and have an extended product life providing an exceptional value.

Mott's entire standard product line is available in stainless steel or can be custom designed for specific applications. The manufacturing process begins with the selection of quality ASTM A 240 Type 304 or 316 stainless steel and is welded using the Tungsten Inert Gas (TIG) method. The result is truly attractive laboratory furniture that will justifiably complement any laboratory.

Numerous North American laboratories feature Mott's stainless steel furniture. Applications include clean rooms, operating rooms, animal facilities, wash up areas, pharmaceutical and food manufacturing environments that feature high use of water wash-down to eliminate contamination and maintain excellent cleanliness.

Mott's commitment to quality through our ISO Quality Management system assures the reliable, long life of our entire product line of stainless steel furniture and fume hoods.



- **Moisture & Corrosion Resistance** - Properly selected and maintained stainless steel provides excellent moisture and corrosion resistance in several applications.
- **Impact Resistance** - Stainless steel's high yield strength, even at elevated temperatures, provides high impact strength and therefore ensures durability and extended product life.
- **Easy to Sanitize** - Stainless steel work surfaces with smooth radius corners make it ideal for environments requiring high levels of cleanliness. This includes applications such as pharmaceutical manufacturing, food processing, health care, agricultural products and services, clean rooms, operating rooms, animal labs, autopsy areas, and radioactive processes.
- **Attractive & Aesthetic Appearance** - Polished stainless steel provides bright, easily maintainable surfaces resulting in contemporary furniture design.
- **Fume Hoods** - All Mott's standard and premium fume hood designs are readily available in stainless steel construction. Hoods can be custom designed and manufactured to meet specific application requirements. Features can include cove corner liners with integral work surfaces where high levels of cleanliness are required.
- **Friendly to the Environment** - Stainless steel products are 100% recyclable and have value even after a very long life in the laboratory. 60% - 85% of new stainless steel comes from old remelted stainless steel scrap; which contributes to LEED® credit MR4.

CLASSIFIED UL

Mott's fume hoods meet UL 1805 requirements and are classified by Underwriters Laboratories Inc. as to fire, electrical, and mechanical hazards only. Control number 68SN.

STAINLESS STEEL PRODUCTS

Stainless Steel Introduction

The full range of Mott cabinetry - from base cabinets to tall floor mounted cabinets - are available in 304 or 316 stainless steel. Mott Manufacturing specializes in the integration of custom design features and/or dimensions into stainless steel laboratory furniture components. The following is a sample listing of other furniture components that can be manufactured in 304 or 316 stainless steel:

- Counter tops
- Filler panels
- Aprons
- Tables - fixed and mobile
- Exhaust canopies

Stainless Steel Grades

The most common stainless steel grades required in laboratory applications are 304 or 316. 304 grade is widely used for cabinetry while the 316 grade is more often specified for more demanding applications such as counter tops and fume hood liners.

304 grade stainless steel is the most versatile and one of the most widely applied stainless steel grades for laboratory use. High quality laboratory furniture components can be readily manufactured from this grade because it has excellent forming and welding characteristics. This grade also has excellent corrosion resistance, further corrosion resistance details are available from Mott Manufacturing or its dealers upon request.

316 grade stainless steel is specified for the more demanding laboratory environments. This molybdenum bearing, higher nickel content grade delivers superior corrosion resistance, improved stain resistance and strengthened chloride attack resistance benefits to laboratory furniture. This grade has excellent corrosion resistance to a wider range of chemicals, including the complex sulphur compounds.

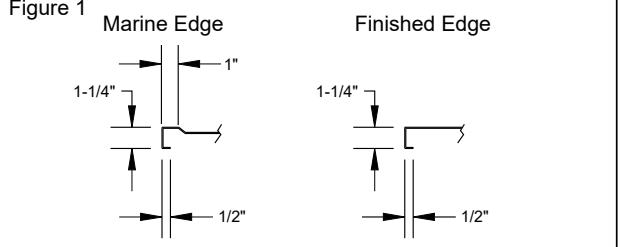
All Mott stainless steel laboratory furniture components are manufactured to a No.4 finish to deliver a smooth sanitary surface. This finish is widely used in laboratory applications where a uniform bright finish is required. The No.4 finish delivered by Mott Manufacturing is often slightly brighter than industry standard as the mesh finish is in the range of 120 to 150 resulting from the stainless steel sheets being polished with lubricating oil and abrasive belts with a 180 to 200 grit. No.4 finish samples are available from Mott or its dealers upon request.

Counter Tops

Counter tops can be designed to exactly match customer specifications and include features such as:

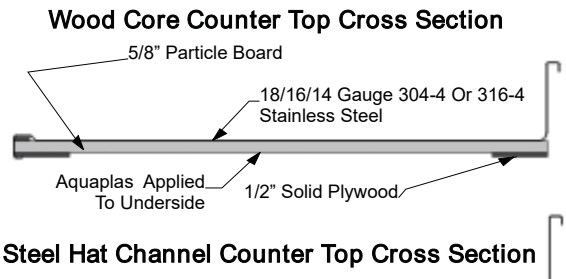
- Marine or finished edges (figure 1)
- Integral sinks in a wide variety of configurations
- Sloping drain boards

Figure 1



Standard construction includes either 304 or 316 stainless steel, backed by a 43 lb density particle board and plywood core (figure 2). Steel hat channel

Figure 2



construction is also available with 16 gauge type 304 stainless steel or satin coat finished stiffeners. Hat channel construction is recommended for long length counter tops that support heavy equipment or instruments (figure 2). All Mott counter tops have a sound deadening Aquaplas sealer applied to their underside.

All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

STAINLESS STEEL
CASEWORK CONSTRUCTION DETAILS AND SPECIFICATIONS

Overview

Cabinets

Standard cabinets are fabricated using prime quality furniture grade 304-4 stainless steel. (Optional 316-4 Stainless Steel is also available using option code -51.) All components are die formed, notched, keyed and tightly fitted to form a

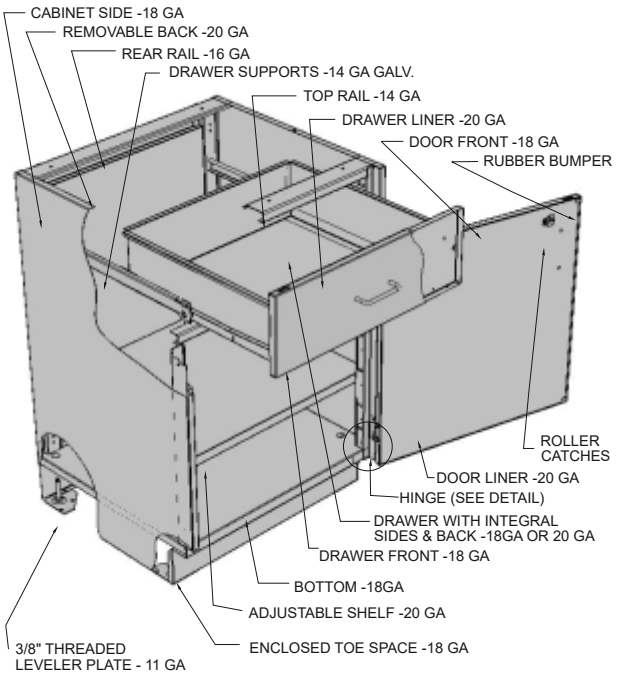
Stainless Steel Cabinet Gauges and Materials	
Drawer Bodies*, Shelves, Door and Drawer Liners, Removable Backs.	20 gauge 304-4 S/S
Cabinet Gables, Tops, Bottoms, Toekicks, Outer Door and Drawer Front Panels, Table Frames, Filler Panels, Sloping Tops.	18 gauge 304-4 S/S
Top and Intermediate Channels, Table Legs.	16 gauge 304-4 S/S
Drawer Suspension, Hinge Plates.	14 gauge 304-4 S/S
Cabinet Leveler Support	11 gauge 304-4 S/S
Five Knuckle Hinges (with s/s fasteners)	14 gauge 304-4 S/S
Door / Drawer Pulls	S/S Bar Pull
Door Roller Catch	Zinc Plated
3/8 Hex Head Leveler Bolts	Electro Plated
Drawer Roller Bearings	Zinc plated with Nylon rim
Full Extension Drawer Glides	Zinc plated
Shelf Clips	Zinc plated
Sliding Glass Doors Shoes & Tracks	Aluminum
Framed Glass Door lower Tracks	PVC
Cabinet Leveler Access Covers	PVC

Note: * 30” wide or larger drawers are 18 gauge, otherwise drawers are standard 20 gauge.

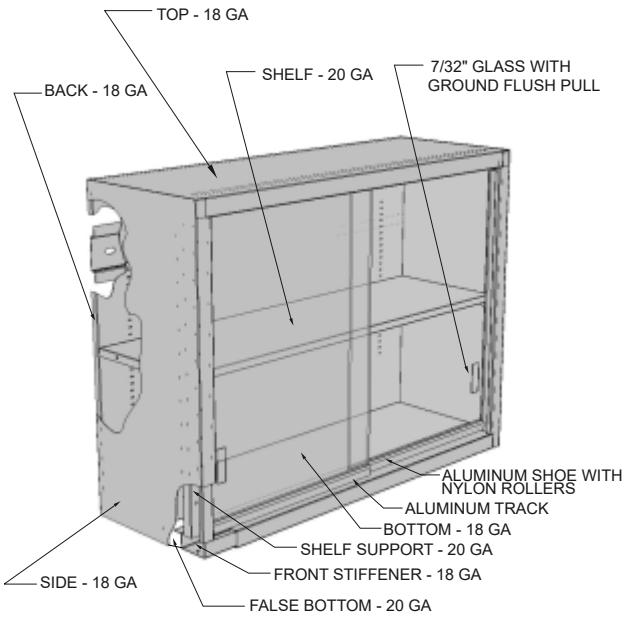
Finish

All cabinets surfaces are finished to a No.4 brush. All weld marks on the cabinet front and sides, exterior and interior of drawer / door heads have the color removed. All welds including the rear and interior of the cabinet, and outside of drawer housings are left natural.

BASE CABINET DETAIL



WALL CABINET DETAIL



All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

Room
119C
Shower Lockers

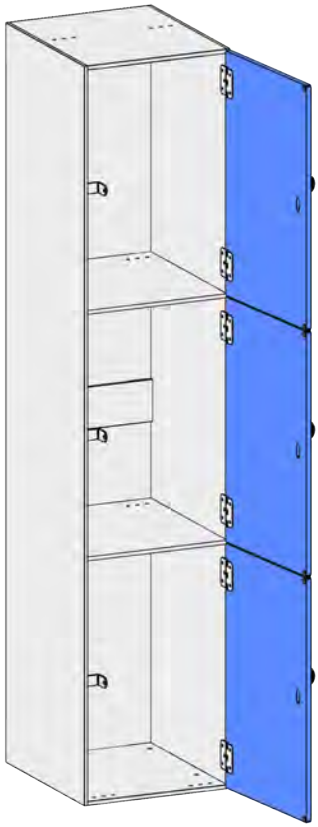
119C.01

SUMMIT LOCKERS™

MADE IN THE USA

Three Tier Phenolic Locker





Construction	
Mortise & tenon joints	Full overlay doors
Stainless steel fasteners	Enhanced ventilation
Stainless steel coat hooks	Engraved ID plates

Material thickness		
Top, Bottom & Shelves	White	3/8”
Sides & Backs	White	5/16”
Doors	Std Colors	1/2”

Sizes	
Height	24”, 36”, 48”, 60”, 72”, 84”, 96”
Width	9”, 12”, 15”, 18”, 20”
Depth	12”, 15”, 18”, 20”

Hinges
Concealed SS (std)
ADA hinge
Continuous SS

Fastening
Concealed (std)
Through bolt door

Options	
Sloped tops	Through door ventilation
Adjustable base	Class A fire rating
SS coat rod	Door magnets
Thicker materials	Custom body color

Lock options		
Hasp	Day use/Digital	Assigned/Digital
Key	Day use/Mechanical	Combination
RFID	Assigned/Mechanical	Coin operated

Summit Lockers reserves the right to implement changes to the design and dimensions.

Phone 888-310-7149
138 McLeod Road
www.summitlockers.com
© 2016 Summit Lockers, Inc.
Columbia South Carolina 29203
info@summitlockers.com

Internet # 325808129 Model # WA47CG3500AV Store SKU # 1010022903 Store SO SKU #1009906

119C.02

Live Chat Feedback

Top Rated

Samsung

4.7 cu.ft. Large Capacity Smart Top Load Washer with Active WaterJet in Brushed Black

4.4 (402) Questions & Answers (91)










Hover Image to Zoom

Share Print

- 4.7 cu. ft. Large Capacity Smart Top Load Washer
- Pairs best with Electric DVE47CG3500V or Gas DVG47CG3500V Dryer
- Active WaterJet pretreats with the push of a button
- View More Details

La Crosse Store

✓ On Display

Color/Finish: **Black**

Agitator/Impeller Type: **Impeller**

Agitator | **Impeller**

Make Sure It Fits Your Space

Learn how to measure for easy installation

Get Started

Feedback

Unavailable at La Crosse

Delivering to 54650

Pickup
Unavailable

Delivery
Earliest delivery
Tue, Aug 12

Schedule your appliance delivery in checkout. Delivery cost applied in cart.

Add to Cart

Buy now and pay later with PayPal. Learn more

Complete Your Laundry Room

CURRENT ITEM



$999.00

See Low Price in Cart

(4 / 402)

Samsung
4.7 cu.ft. Large Capacity Smart Top Load Washer with Active WaterJet in Brushed Black

+

Matching Dryer ⓘ

Select



$999.00

See Low Price in Cart

(4.2 / 310)

Samsung
7.4 cu. ft. Vented Front Load Smart Electric Dryer with Sensor Dry in Brushed Black

- Electric
- Gas

=

See Lower Price In Cart

Add Bundle to Cart

Ask about this product

Get an immediate answer with AI

Type a question

Get an Answer

AI-generated from the text of manufacturer documentation. To verify or get additional information, please contact The Home Depot customer service.

Product Details



Large Capacity

Tackle more laundry in less time with a Large capacity 4.7 cu. ft. tub.



Wi-Fi Connectivity with SmartThings

Schedule, remotely start and stop your cycle, and more from your smartphone with the SmartThings app.



Active Water Jet



Vibration Reduction Technology+

About This Product

Samsung's 4.7 cu. ft. Large Capacity Top Load Washing Machine is integrated with Wi-Fi connectivity so you can receive end-of-cycle alerts and schedule laundry from your smartphone.* With Active WaterJet, a built-in water faucet, you can easily pretreat heavily soiled and stained clothes. 10 preset cycles to best suit your washing needs.

Highlights

- Our large capacity Top Load Washer means fewer loads, less time in the laundry room, and more time doing the things you love.
- Wi-Fi connected so you can receive end-of-cycle alerts, remotely start or stop your washing, schedule cycles on your time, and more, right from your smartphone with the SmartThings App
- built-in water faucet lets you easily pretreat soiled or heavily stained clothes with the press of a button. Scrub items right inside your washer, no laundry room sink needed.
- More cycles to cover almost every washing need for your active family.
- Do your laundry in peace. Our innovative Vibration Reduction Technology+ reduces noise and vibration and creates a quiet washing experience.
- The thoughtfully designed Soft-Close Lid closes safely, gently, and quietly.
- Ensure that all of your items are thoroughly soaked by selecting Extra High Water Level before starting your laundry.
- Keep your washer tub fresh and clean. Self Clean will notify you every 20 wash cycles when it is time for a cleaning.
- Easy troubleshooting from the convenience of your smartphone.* Smart Care interacts with your washer and dryer to perform an immediate diagnosis and offer quick solutions.
- The Diamond Drum Interior has smaller waterholes to prevent fabrics from snagging and beingdamaged, helping to extend clothing life.
- Samsung washers and dryers team up to makelight work of laundry day.
- Wi-Fi Connectivity with SmartThings - Remotely start, schedule, and receive end-of-cycle alerts to your smartphone
- Active WaterJet provides a built-in water faucet for easy pre-treating
- 10 preset cycles to best suit your washing needs
- Click here to shop more Samsung appliances
- Click here for more information on Electronic Recycling Programs
- California residents see Prop 65 WARNINGS

Product Information

Internet # 325808129
Model # WA47CG3500AV
Store SKU # 1010022903
Store SO SKU #1009906830

Additional Resources

Shop All Samsung

From the Manufacturer

- Energy Guide
- Specification
- Warranty
- Compatibility Chart
- Installation Guide
- Use and Care Manual

Feedback

Specifications
Dimensions: H 45.06 in, W 27 in, D 29.31 in

Questions & Answers
91 Questions

Customer Reviews
4 out of 5 ★★★★☆ (402)

Internet # 325808136 Model # DVE47CG3500V Store SKU # 1010022902 Store SO SKU #1009906

119C.03

Top Rated

Samsung

7.4 cu. ft. Vented Front Load Smart Electric Dryer with Sensor Dry in Brushed Black

(310) Questions & Answers (54)



Hover Image to Zoom

Share Print

6 Months Everyday Financing** available on purchases of $299 or more.
Apply Now

- 7.4 cu. ft. Smart Electric Dryer
- Pairs best with WA47CG3500AV or WA46CG3505AV Washer(s)
- Sensor Dry helps prevent overdrying for optimal fabric care
- View More Details

Color/Finish: **Black**

Appliance Type: **Electric Dryer**

Electric Dryer | Gas Dryer

Make Sure It Fits Your Space

Learn how to measure for easy installation

Get Started

Unavailable at La Crosse

Delivering to 54650

Pickup
Unavailable

Delivery
Earliest delivery
Tue, Aug 12

Schedule your appliance delivery in checkout. Delivery cost applied in cart.

Add to Cart

Buy now and pay later with PayPal. Learn more

Complete Your Laundry Room

CURRENT ITEM



$999.00

See Low Price in Cart

(4.2 / 310)

Samsung
7.4 cu. ft. Vented Front Load Smart Electric Dryer with Sensor Dry in Brushed Black

+

Matching Washer

Select



$999.00

See Low Price in Cart

(4 / 402)

Samsung
4.7 cu.ft. Large Capacity Smart Top Load Washer with Active WaterJet in Brushed Black

=

See Lower Price In Cart

Add Bundle to Cart

Ask about this product

Get an immediate answer with AI

Type a question

Get an Answer

AI-generated from the text of manufacturer documentation. To verify or get additional information, please contact The Home Depot customer service.

Product Details

Specifications

Feedback

Dimensions: H 45.0394 in, W 27 in, D 30.24 in

Questions & Answers
54 Questions

Customer Reviews
4.2 out of 5 ★★★★☆ (310)



Sponsored

Whirlpool

FAMILY-SIZED CAPACITY

Space, Organization & Ice to Keep Up with Your Needs

Shop Now

Feedback

What We Offer

Delivery Services

We offer move or haul away services, and installation on most appliances when you purchase required parts.

Installation Requirements

The Home Depot Protection Plan

Get 24/7 support and our 3-day Service Guarantee

Plan Coverage and Details

48-Hour Return Policy

You can return your appliance for damages and defects within 48 hours.

Return Policy

Price Match Guarantee

We will match prices including shipping of any other online competitor.

Learn More

Delivery and Installation





Please ensure the following prior to delivery:

- A new electrical cord
- A 240V electric outlet within 4 ft. of hookup
- Verify that your outlet type matches the approved types shown above
- Empty & unplug your old appliance

Home Depot Dryer Delivery & Installation

This video will walk you through the simple steps you must take in order to ensure a successful delivery and installation of your new Dryer from The Home Depot.

LEARN MORE ABOUT DELIVERY & INSTALLATION

Washer and Dryer Dimensions

Taking accurate measurements in your home is critical when purchasing a new washer and dryer. Here are step by step instructions on how to do it correctly.

SHOP ALL WASHERS & DRYERS

Customers Also Viewed

Exclusive

Top Rated

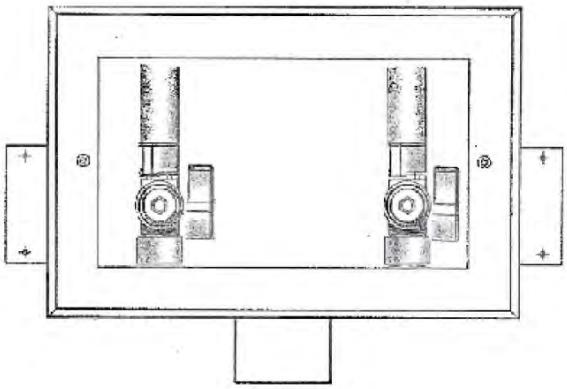
Top Rated

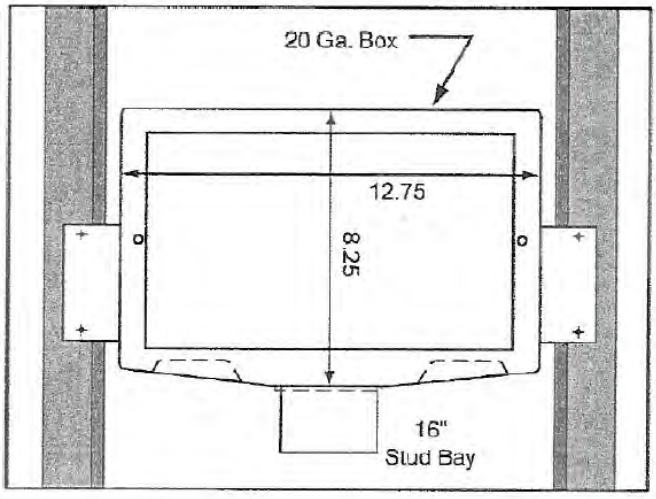
Top Rated

GUY GRAY
IPS CORPORATION

CENTER DRAIN WHITE POWDER COATED WMOB

with Quarter Turn Arrester Valves





SPECIFICATION

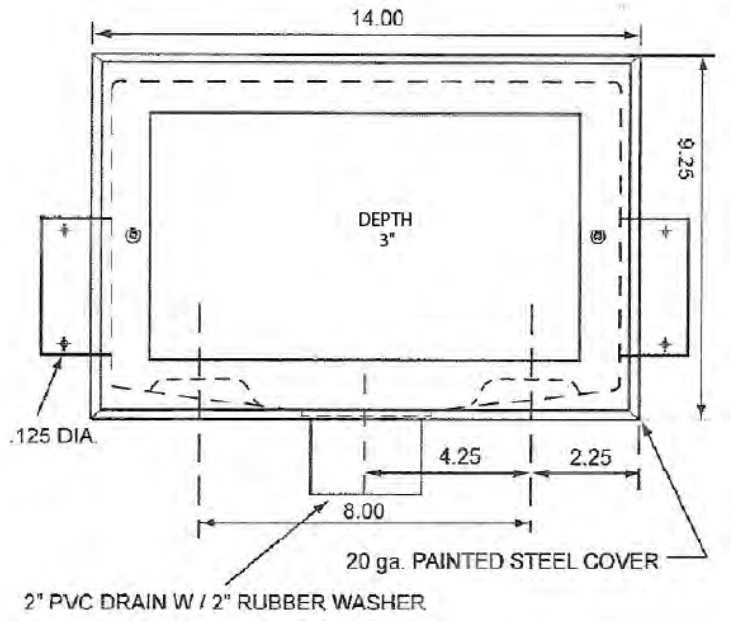
Furnish and install center drain white powder coated cold rolled steel washing machine outlet box with integral hammer arrester quarter turn valves. Unit shall be Guy Gray product code as checked below, manufactured by IPS Corporation.

BOX MATERIAL:

White powder coat on cold rolled steel
20 gauge box and 20 gauge faceplate

VALVE AND DRAIN OPTIONS:

Qtr. Turn hammer arrester valves with 1/2" MIP/ Sweat, CPVC or F1960. 2" PVC Drain.
Valves comply with ASME A112.18.1
Hammer arresters comply with ASSE 1010.



	Product Code #	Product Description	Model Number	Units/ Case
	82158	1/2" Qtr. Turn MIP/Sweat Valves w/Arresters, 2" PVC Drain Fitting	T200TPPVCCHA	6
	82159	1/2" Qtr. Turn CPVC Valves w/Arresters, 2" PVC Drain Fitting	T200TPCPVCHA	6
	82480	1/2" Qtr. Turn F1807 Valves w/Arresters, 2" PVC Drain Fitting	T200TPPVCPHA	6
	82481	1/2" Qtr. Turn F1960 Valves w/Arresters, 2" PVC Drain Fitting	T200TPPVCWHA	6

IPS CORPORATION
500 Distribution Parkway, Collierville, TN 38017 ▪ 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

ADVANCE TABCO®
SMART FABRICATION™

STAINLESS STEEL

WALL SHELVES NSF

119C.05



Item #: _____ Qty #: _____

Model #: _____

Project #: _____



FEATURES:

Brackets can be positioned to accommodate wall studs.

Furnished with a 1-5/8" Bullnose edge with a 1-1/2" turn-up edge at rear. Ends are turned down square.

MATERIAL:

16 Gauge Series - 304 stainless steel polished to a satin finish.

18 Gauge Series - 430 stainless steel polished to a satin finish.

CONSTRUCTION:

Secured to wall by means of bolts through support brackets.

Units 7 ft. and larger are furnished with 3 brackets.

	10" Wide			12" Wide			15" Wide			18" Wide			
L	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	16 Ga.	18 Ga.	Approx. Wt.	Approx. Cu. Ft.
24"	WS-10-24-16	WS-10-24	8 lbs.	WS-12-24-16	WS-12-24	9 lbs.	WS-15-24-16	WS-15-24	11 lbs.	WS-18-24-16	WS-18-24	14 lbs.	3
36"	WS-10-36-16	WS-10-36	10 lbs.	WS-12-36-16	WS-12-36	12 lbs.	WS-15-36-16	WS-15-36	15 lbs.	WS-18-36-16	WS-18-36	21 lbs.	4
48"	WS-10-48-16	WS-10-48	12 lbs.	WS-12-48-16	WS-12-48	14 lbs.	WS-15-48-16	WS-15-48	18 lbs.	WS-18-48-16	WS-18-48	24 lbs.	5
60"	WS-10-60-16	WS-10-60	15 lbs.	WS-12-60-16	WS-12-60	17 lbs.	WS-15-60-16	WS-15-60	23 lbs.	WS-18-60-16	WS-18-60	28 lbs.	6
72"	WS-10-72-16	WS-10-72	17 lbs.	WS-12-72-16	WS-12-72	21 lbs.	WS-15-72-16	WS-15-72	28 lbs.	WS-18-72-16	WS-18-72	32 lbs.	7
84"	WS-10-84-16	WS-10-84	20 lbs.	WS-12-84-16	WS-12-84	25 lbs.	WS-15-84-16	WS-15-84	32 lbs.	WS-18-84-16	WS-18-84	36 lbs.	8
96"	WS-10-96-16	WS-10-96	23 lbs.	WS-12-96-16	WS-12-96	28 lbs.	WS-15-96-16	WS-15-96	36 lbs.	WS-18-96-16	WS-18-96	42 lbs.	10
108"	WS-10-108-16	WS-10-108	28 lbs.	WS-12-108-16	WS-12-108	32 lbs.	WS-15-108-16	WS-15-108	40 lbs.	WS-18-108-16	WS-18-108	48 lbs.	11
120"	WS-10-120-16	WS-10-120	32 lbs.	WS-12-120-16	WS-12-120	36 lbs.	WS-15-120-16	WS-15-120	44 lbs.	WS-18-120-16	WS-18-120	54 lbs.	12
132"	WS-10-132-16	WS-10-132	36 lbs.	WS-12-132-16	WS-12-132	42 lbs.	WS-15-132-16	WS-15-132	49 lbs.	WS-18-132-16	WS-18-132	60 lbs.	13
144"	WS-10-144-16	WS-10-144	40 lbs.	WS-12-144-16	WS-12-144	48 lbs.	WS-15-144-16	WS-15-144	55 lbs.	WS-18-144-16	WS-18-144	66 lbs.	14

ADVANCE TABCO®
SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 8:00 pm E.S.T.

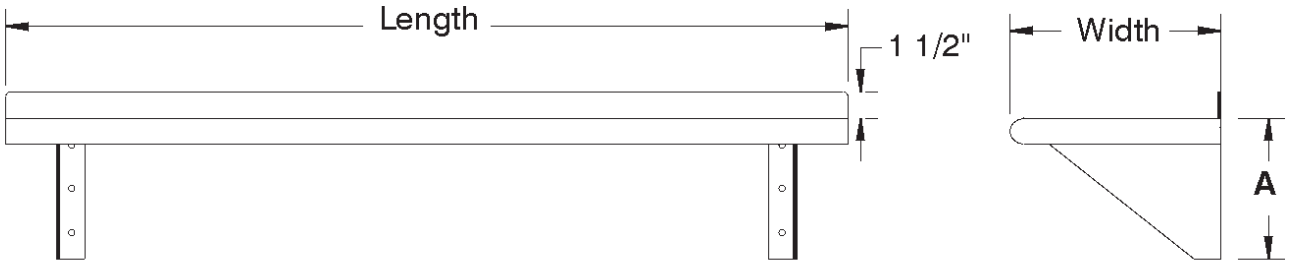
For Orders & Customer Service:
Email: customer@advancetabco.com or **Fax:** 631-242-6900

For Smart Fabrication™ Quotes:
Email: smartfab@advancetabco.com or **Fax:** 631-586-2933

DETAILS and SPECIFICATIONS

TOL ± .500”

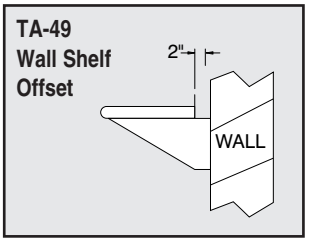
ALL DIMENSIONS ARE TYPICAL



Width	A
10”	8 1/2”
12”	10 1/2”
15”	13 1/2”
18”	16 1/2”

Wall Shelf Options

PRT-1	Printer Shelf
TA-22A	Square Edge Shelf
TA-26	Welded Shelf Brackets
TA-49	Wall Shelf 2” Offset
TA-71	Heat Lamp Provision
TA-77	Check Minder
TA-77A	Concealer for Heat Lamp (Requires TA-77)
TA-99A	14 Ga. S/S 304 Upgrade for Overshelves
TA-100A	Bullnose Edge On All 4 Sides of Shelf
TA-102	6” Cantilever Shelf Offset





Requirements for NSF Installations

1. Install at least 60” above floor.
2. Limit to dry storage.
3. Avoid contact with liquids.
4. For “Ganging-Up” installation, allow at least 2” between units or mount units side by side and seal joints with an approved sealant.

ADVANCE TABCO

SMART FABRICATION™

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

200 Heartland Boulevard, Edgewood, NY 11717-8380

© ADVANCE TABCO, DECEMBER 2016

QUALITY IN PRODUCT • PRECISION IN PROCESS • STRENGTH IN PEOPLE

STAINLESS STEEL

STAINLESS STEEL



mott MANUFACTURING ISO 9001:2008 REGISTERED

QUALITY BY DESIGN

Mott Manufacturing provides complete solutions for all your laboratory needs. We offer a full line of products featuring quality steel laboratory furniture, premium grade architectural wood casework, flexible and mobile furniture systems, high performance and custom fume hoods, custom stainless steel work surfaces and sinks. We have been serving the industrial, pharmaceutical, education, health care and government markets since the early 1960's. Since each laboratory's needs are unique, we can design and engineer products to meet your exact requirements.

Customer Satisfaction is Mott's First Priority

Delivering industry-leading customer service is more than just words to the Mott Team. We know that satisfied customers drive our success. We therefore provide our customers with the following key values:

Consistent Product Quality

Our ISO 9001 Registered Quality Management System, supported by quality materials and skilled employees, ensures only high quality product is shipped.

Just-in-Time Delivery Capability

Our six week manufacturing lead time, along with our high on-time and complete shipment performance, provide exceptional reliability to our customers.

Adaptable Product Line

Our extensive modular product line permits our customers to readily configure the most productive solution to meet their specific requirements. Our flexible manufacturing capabilities allow convenient modification of standard components to fit the unique requirements of each laboratory.

Competitive Value

Our several decades of application experience allows us to provide productive furniture solutions to our customers. This experience, along with our high product quality, custom manufacturing capability, consistently strong service levels, and competitive pricing provide high value to our customers.

Extensive Dealer Network

Our dealers are the best. We build strong relationships with our dealers to provide, in partnership, industry-leading service levels. Our dealers' on site leadership and years of experience combined with our design and manufacturing skills deliver the very best in laboratory furniture solutions.





mott MANUFACTURING ISO 9001:2008 REGISTERED

Corporate Headquarters
452 Hardy Rd, Brantford ON, Canada N3T 5L8
T. 519.752.7825 • F. 519.752.2895

Wood Casework Division - 562 Industrial Park Rd,
P.O. Box 156, Maxwelton, WV, USA 24957
T. 304.497.2115

www.mott.ca

SEFA

AUGUST 2011

mott MANUFACTURING

ISO 9001:2008 REGISTERED

Quality Assured...

Mott's extensive stainless steel product offering is designed and manufactured to deliver practical solutions to specialized laboratory environments. Mott's stainless steel furniture and fume hoods are highly durable, easy to clean, simple to maintain and have an extended product life providing an exceptional value.

Mott's entire standard product line is available in stainless steel or can be custom designed for specific applications. The manufacturing process begins with the selection of quality ASTM A 240 Type 304 or 316 stainless steel and is welded using the Tungsten Inert Gas (TIG) method. The result is truly attractive laboratory furniture that will justifiably complement any laboratory.

Numerous North American laboratories feature Mott's stainless steel furniture. Applications include clean rooms, operating rooms, animal facilities, wash up areas, pharmaceutical and food manufacturing environments that feature high use of water wash-down to eliminate contamination and maintain excellent cleanliness.

Mott's commitment to quality through our ISO Quality Management system assures the reliable, long life of our entire product line of stainless steel furniture and fume hoods.



- **Moisture & Corrosion Resistance** - Properly selected and maintained stainless steel provides excellent moisture and corrosion resistance in several applications.
- **Impact Resistance** - Stainless steel's high yield strength, even at elevated temperatures, provides high impact strength and therefore ensures durability and extended product life.
- **Easy to Sanitize** - Stainless steel work surfaces with smooth radius corners make it ideal for environments requiring high levels of cleanliness. This includes applications such as pharmaceutical manufacturing, food processing, health care, agricultural products and services, clean rooms, operating rooms, animal labs, autopsy areas, and radioactive processes.
- **Attractive & Aesthetic Appearance** - Polished stainless steel provides bright, easily maintainable surfaces resulting in contemporary furniture design.
- **Fume Hoods** - All Mott's standard and premium fume hood designs are readily available in stainless steel construction. Hoods can be custom designed and manufactured to meet specific application requirements. Features can include cove corner liners with integral work surfaces where high levels of cleanliness are required.
- **Friendly to the Environment** - Stainless steel products are 100% recyclable and have value even after a very long life in the laboratory. 60% - 85% of new stainless steel comes from old remelted stainless steel scrap; which contributes to LEED® credit MR4.

CLASSIFIED UL

Mott's fume hoods meet UL 1805 requirements and are classified by Underwriters Laboratories Inc. as to fire, electrical, and mechanical hazards only. Control number 68SN.

STAINLESS STEEL PRODUCTS

Stainless Steel Introduction

The full range of Mott cabinetry - from base cabinets to tall floor mounted cabinets - are available in 304 or 316 stainless steel. Mott Manufacturing specializes in the integration of custom design features and/or dimensions into stainless steel laboratory furniture components. The following is a sample listing of other furniture components that can be manufactured in 304 or 316 stainless steel:

- Counter tops
- Filler panels
- Aprons
- Tables - fixed and mobile
- Exhaust canopies

Stainless Steel Grades

The most common stainless steel grades required in laboratory applications are 304 or 316. 304 grade is widely used for cabinetry while the 316 grade is more often specified for more demanding applications such as counter tops and fume hood liners.

304 grade stainless steel is the most versatile and one of the most widely applied stainless steel grades for laboratory use. High quality laboratory furniture components can be readily manufactured from this grade because it has excellent forming and welding characteristics. This grade also has excellent corrosion resistance, further corrosion resistance details are available from Mott Manufacturing or its dealers upon request.

316 grade stainless steel is specified for the more demanding laboratory environments. This molybdenum bearing, higher nickel content grade delivers superior corrosion resistance, improved stain resistance and strengthened chloride attack resistance benefits to laboratory furniture. This grade has excellent corrosion resistance to a wider range of chemicals, including the complex sulphur compounds.

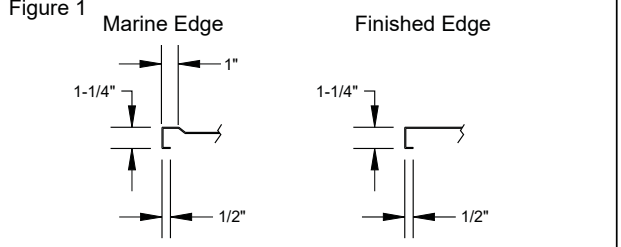
All Mott stainless steel laboratory furniture components are manufactured to a No.4 finish to deliver a smooth sanitary surface. This finish is widely used in laboratory applications where a uniform bright finish is required. The No.4 finish delivered by Mott Manufacturing is often slightly brighter than industry standard as the mesh finish is in the range of 120 to 150 resulting from the stainless steel sheets being polished with lubricating oil and abrasive belts with a 180 to 200 grit. No.4 finish samples are available from Mott or its dealers upon request.

Counter Tops

Counter tops can be designed to exactly match customer specifications and include features such as:

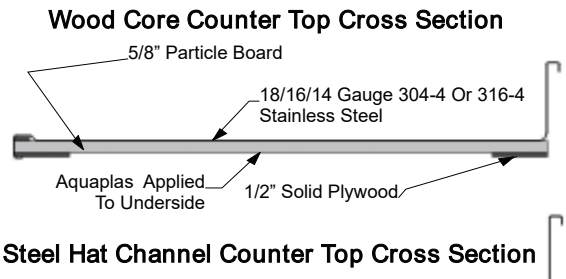
- Marine or finished edges (figure 1)
- Integral sinks in a wide variety of configurations
- Sloping drain boards

Figure 1



Standard construction includes either 304 or 316 stainless steel, backed by a 43 lb density particle board and plywood core (figure 2). Steel hat channel

Figure 2



construction is also available with 16 gauge type 304 stainless steel or satin coat finished stiffeners. Hat channel construction is recommended for long length counter tops that support heavy equipment or instruments (figure 2). All Mott counter tops have a sound deadening Aquaplas sealer applied to their underside.

All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

STAINLESS STEEL
CASEWORK CONSTRUCTION DETAILS AND SPECIFICATIONS

Overview

Cabinets

Standard cabinets are fabricated using prime quality furniture grade 304-4 stainless steel. (Optional 316-4 Stainless Steel is also available using option code -51.) All components are die formed, notched, keyed and tightly fitted to form a

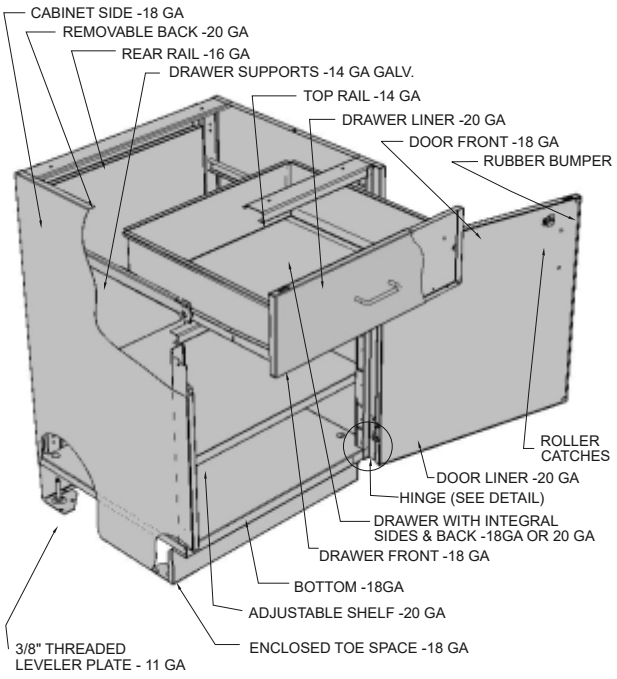
Stainless Steel Cabinet Gauges and Materials	
Drawer Bodies*, Shelves, Door and Drawer Liners, Removable Backs.	20 gauge 304-4 S/S
Cabinet Gables, Tops, Bottoms, Toekicks, Outer Door and Drawer Front Panels, Table Frames, Filler Panels, Sloping Tops.	18 gauge 304-4 S/S
Top and Intermediate Channels, Table Legs.	16 gauge 304-4 S/S
Drawer Suspension, Hinge Plates.	14 gauge 304-4 S/S
Cabinet Leveler Support	11 gauge 304-4 S/S
Five Knuckle Hinges (with s/s fasteners)	14 gauge 304-4 S/S
Door / Drawer Pulls	S/S Bar Pull
Door Roller Catch	Zinc Plated
3/8 Hex Head Leveler Bolts	Electro Plated
Drawer Roller Bearings	Zinc plated with Nylon rim
Full Extension Drawer Glides	Zinc plated
Shelf Clips	Zinc plated
Sliding Glass Doors Shoes & Tracks	Aluminum
Framed Glass Door lower Tracks	PVC
Cabinet Leveler Access Covers	PVC

Note: * 30” wide or larger drawers are 18 gauge, otherwise drawers are standard 20 gauge.

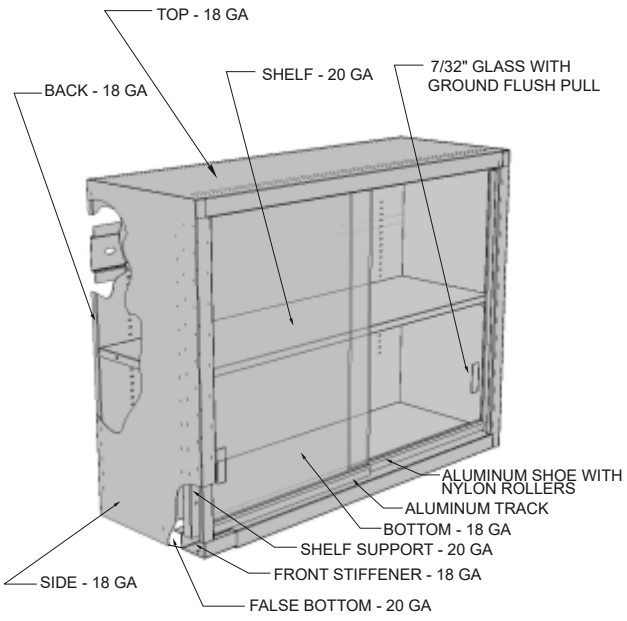
Finish

All cabinets surfaces are finished to a No.4 brush. All weld marks on the cabinet front and sides, exterior and interior of drawer / door heads have the color removed. All welds including the rear and interior of the cabinet, and outside of drawer housings are left natural.

BASE CABINET DETAIL



WALL CABINET DETAIL



All dimensions and sizes shown are nominal.
Specifications and details are based on product information at the time of printing and may change at any time without notice.
Mott Manufacturing reserves the right to change dimensions, specifications and manufacturing details at any time without notice.

Room
120D
Showers

HN200
Recess-Mounted ADA Compliant Wall Shower

- No Frame Required for Installation
- Ideal for ADA Shower Rooms
- Flexible Supply Hoses Make Rough-In Easier
- Completely Preassembled, Recess-Mounted Wall Unit

Specifications

Shower Configuration

Available in a right or left-handed configuration depending on location of valve, as determined by application or ADA requirements.

Construction

Materials

All exposed materials, except for phenolic seat, are type 304 stainless steel or polished chrome-plated brass. Shower panel is 16 gauge and grab bar is 18-gauge. Valve bodies are brass casting. Supply hoses are 24" flexible stainless steel.

ADA Compliant

When installed properly in a 3' x 3' stall (provided by others), the HN200 provides a shower stall designed to comply with all known ADA guidelines on reaches, clearances, and operation. Controls are mounted 42" – 48" above the floor to accommodate all users.

Check local applicable codes for dimensional compliance.

Standard Equipment

Shower Panel

Constructed of 16 gauge stainless steel.

Valve Type as Selected

For more information on each valve type, please visit the Shower Valves product section at www.bradleycorp.com.

Soap Dish

Recessed soap dish (RSD) is fabricated of type 304 stainless steel with seamless corners and burr-free edges. Overall dimensions: 7-1/8" W x 5-1/16"H x 2-3/4"D. Mounted in shower panel.

Showerhead

Standard fixed direction adjustable sprayhead (S15).

Diverter Valve

Lever handle operation for easy transfer of water flow between fixed and hand-held hose spray.

Hand Shower

Consisting of hand shower with on-off control, a 60" stainless steel flexible hose and post style mounting bracket to hold to shower panel. Elevated in-line backflow preventer with quick-disconnect for flexible hose.

Supply Inlets

Supply inlets are flexible, stainless steel hoses with 1/2" NPT connections.

Flow Control

A 1.5 GPM (5.7 LPM) flow control is standard. Actual flow may vary, but will not exceed 2.0 GPM (7.6 LPM) max.



HN200
(Valve Left Shown)

ADA COMPLIANT

Optional Selections

L-Shaped Grab Bar

Grab bar fabricated of 18-gauge 1-1/2" O.D. stainless steel tubing with a 1-1/2" safety statute clearance. Flanges are 11-gauge. Load capacity in excess of 300 lbs.

ADA Compliant Seat

Reversible phenolic shower seat. Load capacity of 250 lbs. See technical data document Bradley_ShowerSeat_9569 for additional information.

Shower Curtain

60" x 72" vinyl shower curtain with heavy-duty curtain rod and hooks.

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Model	Description
☐ **HN200**	Recess-Mounted ADA-Compliant Wall Shower

Standard Selections (Must select one from each category)

Showerhead Height (select one)
- ☐ 6'-0" Standard Height

Valve Type (select one)
- ☐ **EF** Equa-Flo Pressure-Balancing Valve
- ☐ **HD** Equa-Flo HD Pressure-Balancing Valve
- ☐ **TMV** Thermostatic Mixing Valve
- ☐ **SVL** Single Compression Valve with Lever Handle
- ☐ **AST** Air Pushbutton
- ☐ **TTPA** TouchTime Pushbutton*
- ☐ **TTPB** TouchTime Piezo Switch*

Showerhead Type
- ☐ **S15** Standard Showerhead (Flow Rate = 1.5 GPM/5.7 LPM)
- ☐ **SX15** Severe Service Showerhead (Flow Rate = 1.5 GPM/5.7 LPM)
- ☐ **S20** Standard Showerhead (Flow Rate = 2.0 GPM/7.6 LPM)
- ☐ **SX20** Severe Service Showerhead (Flow Rate = 2.0 GPM/7.6 LPM)
- ☐ **SF** Deluxe Showerhead w/ Ball Joint (Flow Rate = 1.5 GPM/5.7 LPM)
- ☐ **ES** Economy Soft Flow w/ Ball Joint (Flow Rate = 2.0 GPM/7.6 LPM)
- ☐ **J** Multi-Jet Showerhead w/ Ball Joint (Flow Rate = 1.5GPM/5.7 LPM)
- ☐ **LX** Luxury Showerhead w/ Ball Joint (Flow Rate = 1.5GPM/5.7 LPM)
- ☐ **B** Axis Showerhead w/ Ball Joint (Flow Rate = 1.5GPM/5.7 LPM)

Second Showerhead Type (select one)
- ☐ **HS** Hand Shower w/ 60" Flexible Hose, Wall Hook, Vacuum Breaker and Quick Disconnect**
- ☐ **S15** Standard Showerhead (Flow Rate = 1.5 GPM/5.7 LPM)
- ☐ **SX15** Severe Service Showerhead (Flow Rate = 1.5 GPM/5.7 LPM)
- ☐ **S20** Standard Showerhead (Flow Rate = 2.0 GPM/7.6 LPM)
- ☐ **SX20** Severe Service Showerhead (Flow Rate = 2.0 GPM/7.6 LPM)
- ☐ **ES** Economy Soft Flow w/ Ball Joint (Flow Rate = 2.0 GPM/7.6 LPM)
- ☐ **J** Multi-Jet Showerhead w/ Ball Joint (Flow Rate = 1.5GPM/5.7 LPM)
- ☐ **LX** Luxury Showerhead w/ Ball Joint (Flow Rate = 1.5GPM/5.7 LPM)
- ☐ **B** Axis Showerhead w/ Ball Joint (Flow Rate = 1.5GPM/5.7 LPM)

Valve Location (select one)
- ☐ **VL** Valve Left
- ☐ **VR** Valve Right/Seat Left

Optional Selections

Volume Control Type‡ (select one)
- ☐ **AKV** Allen Key Volume Control
- ☐ **LHV** Lever Handle Volume Control
- ☐ **NONE** No Volume Control

Ball Joint Type‡ (select one)
- ☐ **LBJ** Lockable Ball Joint
- ☐ **NONE** No Lockable Ball Joint

Supply Stop Type (select one)
- ☐ **ST** Stops in each Supply
- ☐ **NONE** No Supply Stops

Slide Bar Type§ (select one)
- ☐ **SB** 24" Slide Bar
- ☐ **NONE** No Slide Bar

Shower Seat Type (select one)
- ☐ **RSS** Reversible Phenolic Shower Seat
- ☐ **NS** No Seat

Curtain Type (select one)
- ☐ **CRH** Shower Curtain, Rod and Hooks
- ☐ **NONE** No Shower Curtain, Rod or Hooks

Grab Bar Type (select one)
- ☐ **GB** L-Shaped 2-Wall Grab Bar
- ☐ **NONE** No Grab Bar

Hardware Type (select one)
- ☐ **SC** Standard Screws
- ☐ **VS** Vandal Resistant Screws

*TTPA and TTPB valves require a low-voltage UL/CSA listed 120VAC/12VDC plug-in adapter.

** Hand shower is 1.5GPM (95.7LPM).

‡ Only available on S15 and S20 showerheads.

§ Only available with HS selection.

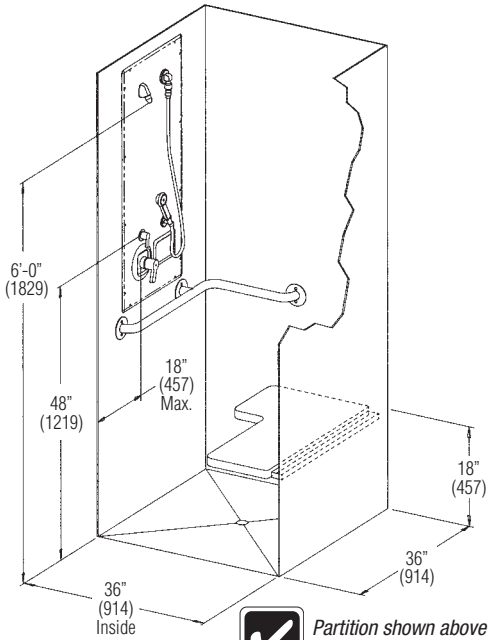
Verify all rough-in dimensions prior to installation.

Consult local and national codes: conformity and compliance to local and national codes is the responsibility of the installer.

2.0 GPM and 2.5 GPM showerhead flow rate does not meet California Energy Commission 20 CCR T.20, Div. 2, 1601-1609.

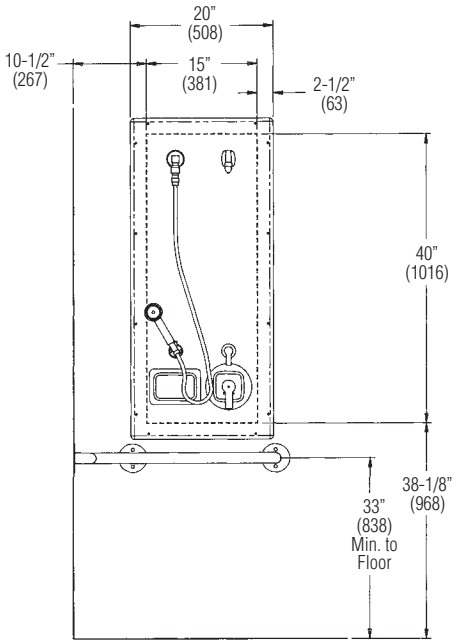
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Dimensions for ADA Compliance

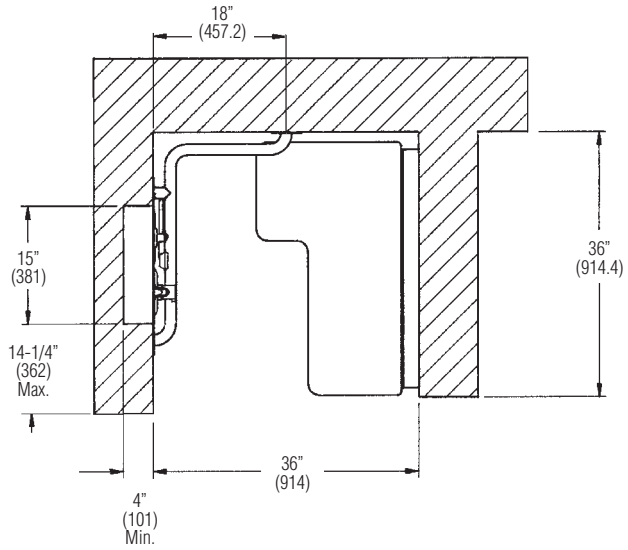


Partition shown above not included as standard equipment.

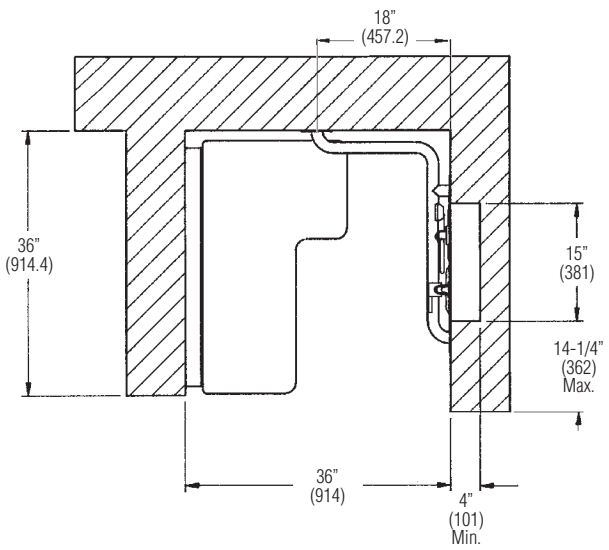
Shower Panel/Grab Bar Rough-In (mm)



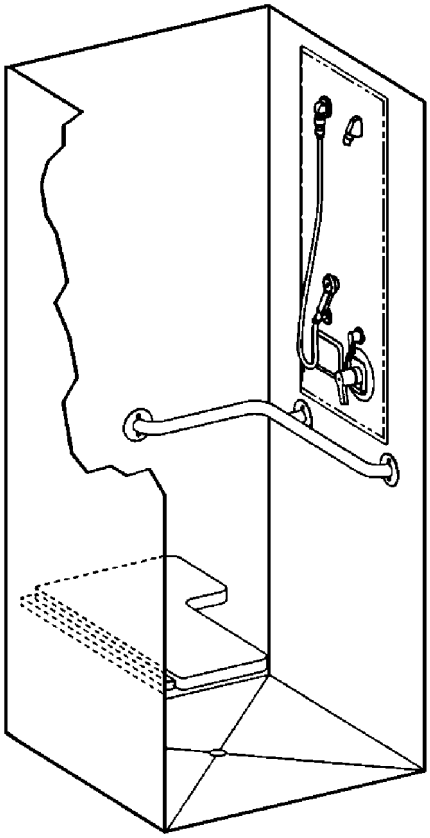
Valve Left/Seat Right Configuration



Valve Right/Seat Left Configuration



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HN200

(Valve Right/Seat Left shown, Valve Left/Seat Right is opposite)

36" x 36" enclosure is not provided as standard equipment

IMPORTANT

Read the entire installation manual to ensure proper installation of your HN200 shower.

This manual covers all of the HN200 variations and options available, including shower seat and curtain installation. Simply omit the steps which do not apply to the unit you are installing.

Valve Left/Seat Right version is shown throughout this manual. Valve Right/Seat Left is opposite.

Plumbing contractor shall be responsible for installing shower face plate at the correct height to meet accessibility requirements.

This installation manual and parts list should be filed by the owner's maintenance department.

Installation Instructions

ADA Compliant HN200 Recess-Mounted Shower with

- **Equa Flo™**
- **Accu-Zone™ Infrared Control**
- **Thermostatic Control**
- **Single Valve**
- **Air Metering Valve**
- **Touch-Time™ or**
- **Touch Time™ w/Battery**

Table of Contents

Pre-Installation Information 2
HN200 Components 3
HN200 Shower Stall Dimensions 3
Installation Instructions 4-7
Cleaning Instructions 7
Shower Seat Repair Parts 8
Shower Curtain Repair Parts 8

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http://www.bradleycorp.com

Pre-Installation Information

CAUTION: This shower system may not protect the user from scalding if other temperature controlling devices in the plumbing system should fail.

CAUTION: Excessive heat to the Equa-Flo™ valve body will damage its internal parts.

Overview

The Bradley ADA compliant HN200 comes assembled for job site installation. When installed in a 36" x 36" stall, the HN200 provides a shower which meets ADA accessibility codes. Check local codes for dimensional compliance.

Components

Face Plate Material: The shower control panel is constructed of stainless steel.

Valve and Component Material: All exposed parts (except seat cover) are stainless steel or polished chrome-plated brass. Valve bodies are brass casting.

Barrier-Free Seat: Folding shower seat is constructed of molded plastic with a load capacity of 250 lbs.

Shower Curtain: Vinyl shower curtain comes with stainless steel curtain rod and hooks.

Supplies required for installation:

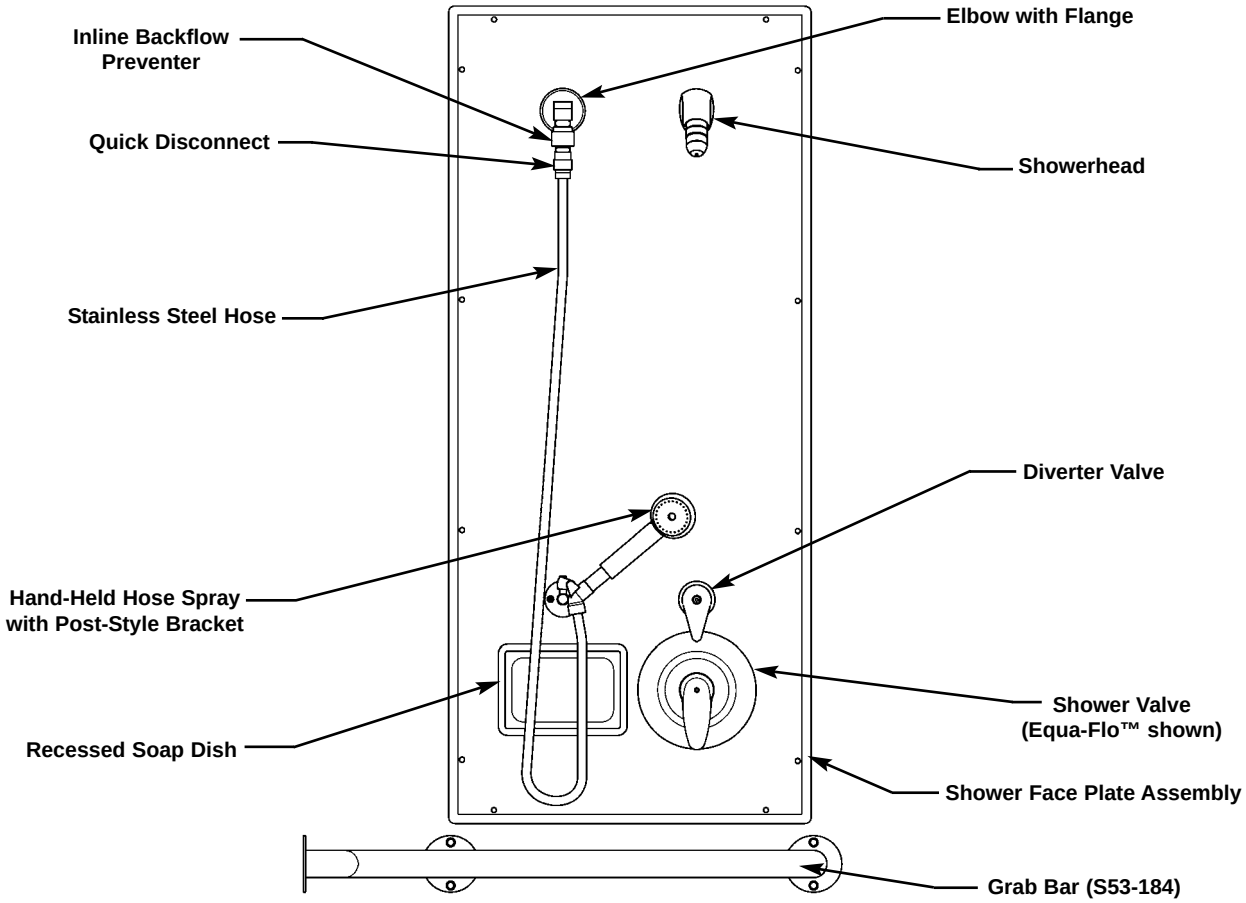
- 1/2" NPT hot and cold or 1/2" NPT tempered water supplies
- (12) 1/4" wall anchors and 1/4”-20 x 3/4” screws to install shower face plate assembly to wall
- (6) wall anchors for 1/4-20" x 1-1/4" hex socket screws to install grab bar (grab bar is designed to sustain a concentrated load of 300 pounds)
- (7) wall anchors for 1/4 x 1/2" Type AB sheet metal screws to mount shower seat

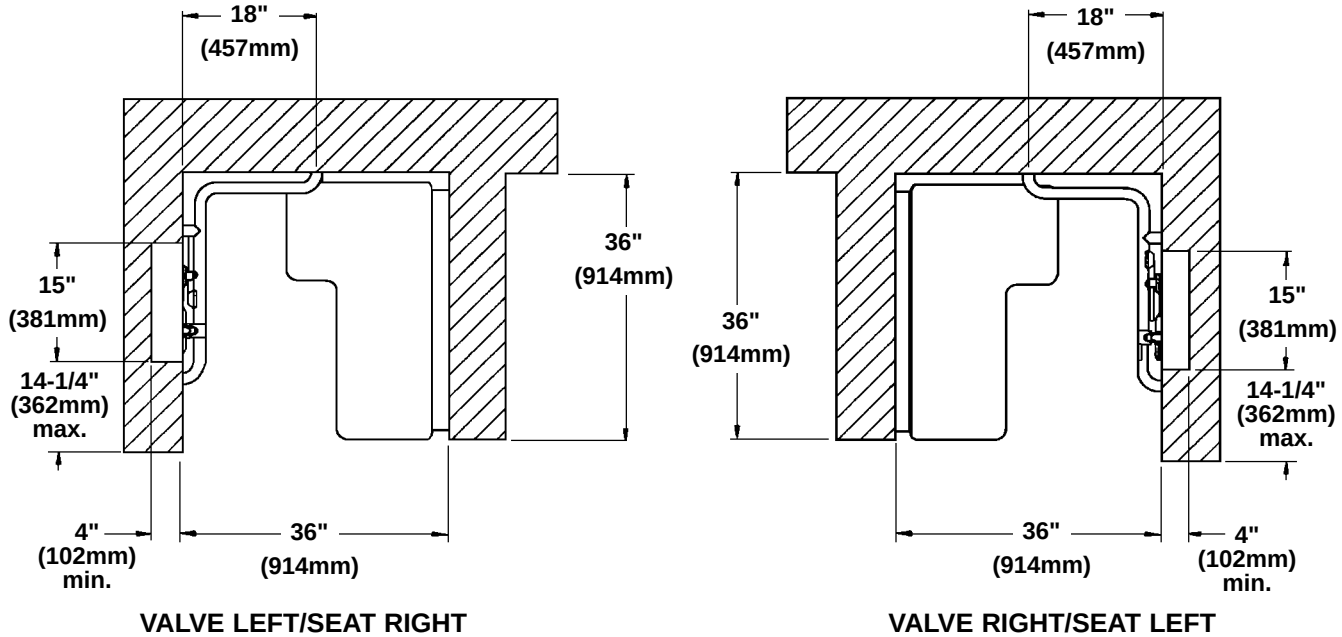
HN200 Recess-Mounted Shower Warranty

Bradley Corporation warrants to commercial and institutional purchasers only each unit free from defects in material and workmanship under normal use and service upon the following terms and conditions:

1. This warranty is limited to replacing or repairing, at our option, transportation charges prepaid by the purchaser, any Bradley unit or part thereof which our inspection shall show to have been defective within the limitations of this warranty.
2. The period during which HN200 Shower components are warranted is one (1) year, measured from the date of our invoice.
3. This warranty does not cover installation or any other labor charges and does not apply to any units which have been damaged by accident, abuse, improper installation or improper maintenance.
4. The replacement or repair of defective units as stated in this warranty shall constitute the sole remedy of the purchaser and the sole liability of Bradley Corporation under this warranty. Bradley Corporation shall not otherwise be liable under any circumstances for incidental, consequential or indirect damages caused by defects in the repair or replacement thereof.
5. This warranty extends only to commercial and institutional purchasers and does not extend to any others, including consumer customers of commercial and institutional purchasers.
6. This warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose or otherwise.

HN200 Components and Shower Stall Dimensions





NOTE: Compliance and conformity to local codes and ordinance is the responsibility of the installer.

Installation Instructions

NOTE: Flush the supply lines before making connections.

NOTE: Install the supply inlets no lower than 48" and no higher than 60" off of finished floor.

Step 1: Rough in piping for shower

NOTE: When facing the wall, the supply pipe to the left of the centerline is HOT.

1. Rough in 1/2" NPT hot and cold water supply piping for valve at the dimension shown in Figure 1 (piping supplied by installer).

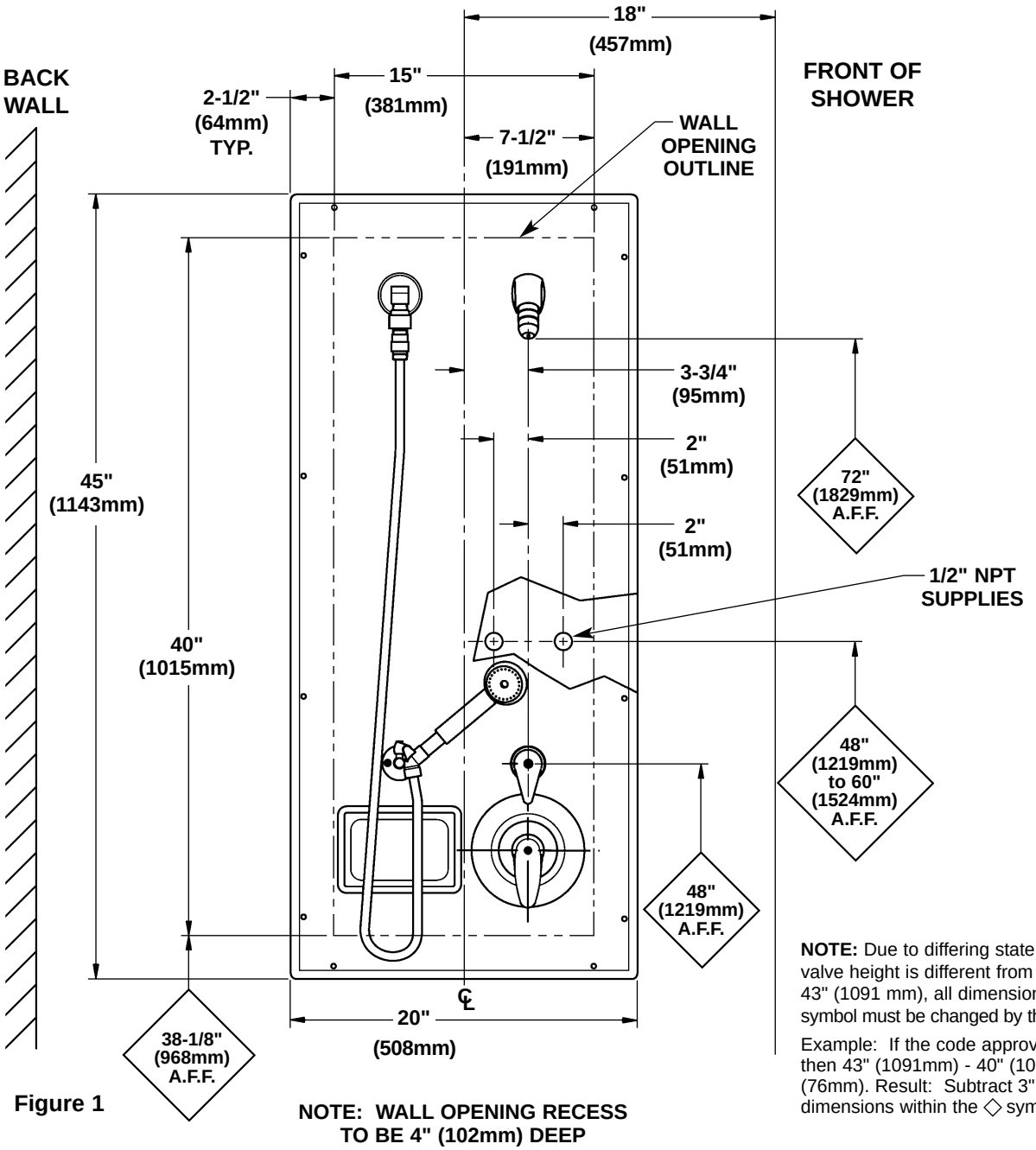


Figure 1

NOTE: WALL OPENING RECESS TO BE 4" (102mm) DEEP

NOTE: Due to differing state codes, if the valve height is different from the indicated 43" (1091 mm), all dimensions within the ◇ symbol must be changed by the same amount.

Example: If the code approved height is 40", then 43" (1091mm) - 40" (1015mm) = 3" (76mm). Result: Subtract 3" (76mm) from all dimensions within the ◇ symbol.

Installation Instructions *continued…*

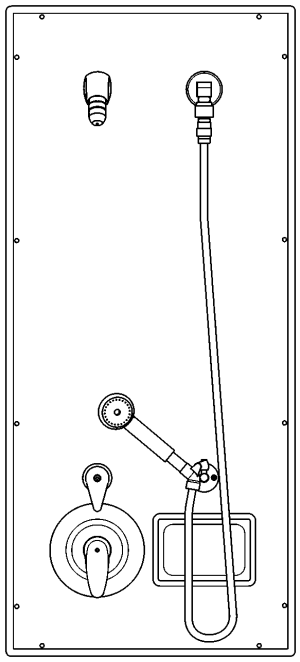
Step 2: Make plumbing connections

NOTE: Hoses need to be connected to 1/2" NPT pipe supply before the shower is fastened to the wall.

1. Make water supply connections to the stainless steel hoses (see Figure 2). Equa-Flo™ and Thermostatic= 1/2" NPT Hot and Cold supplies. Single Valve, Accu-Zone™ Infrared Control, Air Valve and Touch Time™ = 1/2" tempered supply.

Step 3: Install face plate and grab bar

1. Position the face plate on the wall. Mark the wall and install twelve wall anchors suitable for use with 1/4"-20 x 3/4" button head Allen key screws (see Figure 3).
2. Attach the face plate to the wall with twelve 1/4"-20 x 3/4" button head Allen key screws provided (see Figure 3).
3. Attach the grab bar to the wall.
   - Position the “L” of the grab bar to fit the back wall of the shower stall.
4. Use the flange as a template and mark the six screw hole locations and install six anchors supplied by installer for 1/4"-20 x 1-1/4" flat head Allen key screws (see Figure 3).
5. Secure the grab bar to the six wall anchors using six 1/4”-20 x 1-1/4" flat head Allen key screws (provided by installer) (see Figure 3).



VALVE LEFT SEAT RIGHT

Figure 2

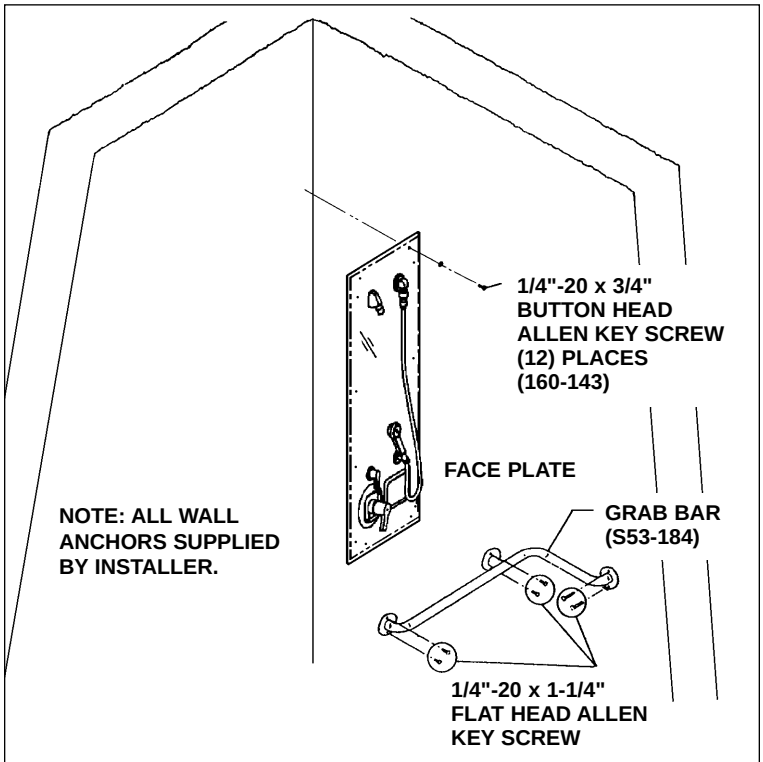


Figure 3 **VALVE LEFT - SEAT RIGHT**

○ **Model 9533 – Antimicrobial Vinyl Shower Curtain (White) *BradEX®***

○ **Model 9537 – Antimicrobial Shower Curtain (White) *BradEX®***

Model 9533 Antimicrobial Vinyl Shower Curtain

Guide Specification

Shower curtain 6 gauge vinyl material with hemmed top edges and aluminum grommets on 6" centers. White only.

Vinyl Shower Curtain Model 9533 is available in widths of 36", 42", 48", 60", or 72" and heights of either 72" or 78". See charts below for dimensional information.

☑ **Model 9533 Shower Curtains have a tolerance of +/- 2" length and +/- 2" width, top edge hemmed.**

9533 Models *BradEX®*

Width (mm)	Height (mm)	Overall Dimensions (mm)	# of 9536 Shower Hooks Required (order separately)
36" (914)	72" (1829)	36" x 72" (914 x 1829)	6
42" (1067)	72" (1829)	42" x 72" (1067 x 1829)	7
48" (1219)	72" (1829)	48" x 72" (1219 x 1829)	8
60" (1524)	72" (1829)	60" x 72" (1524 x 1829)	10
72" (1829)	72" 1829)	72" x 72" (1829 x 1829)	12

Model 9537 Antimicrobial Shower Curtain

Guide Specification

Shower curtain is 9-oz. nylon-reinforced antimicrobial PVC vinyl fabric (flameproof, stain resistant, self-deodorizing) and furnished with aluminum grommets on 6" centers. Shower curtain is .014" thick with top edge hemmed. Ideal for hospital applications. Model 9537 is White.

Antimicrobial Shower Curtain Model 9537 is available in widths of 36", 42", 48", 60", or 72" and heights of either 72" or 78". See charts below for dimensional information.

9537 Width Tolerances

Width (mm)	Tolerance
36" (914)	+/- 2"
42" (1067)	+/-2"
48" (1219)	+/-2"
60" (1524)	+/-2"
72" (1829)	+/-2"

Length tolerance is +/-2"

9537 Models *BradEX®*

Width	Height	Overall Dimensions (mm)	# of 9536 Shower Hooks Required (order separately)
36" (914)	72" (1829)	36" x 72" (914 x 1829)	6
42" (1067)	72" (1829)	42" x 72" (1067 x 1829)	7
48" (1219)	72" (1829)	48" x 72" (1219 x 1829)	8
60" (1524)	72" (1829)	60" x 72" (1524 x 1829)	10
72" (1829)	72" (1829)	72" x 72" (1829 x 1829	12

Orders composed of products indicated as ***BradEX®*** will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

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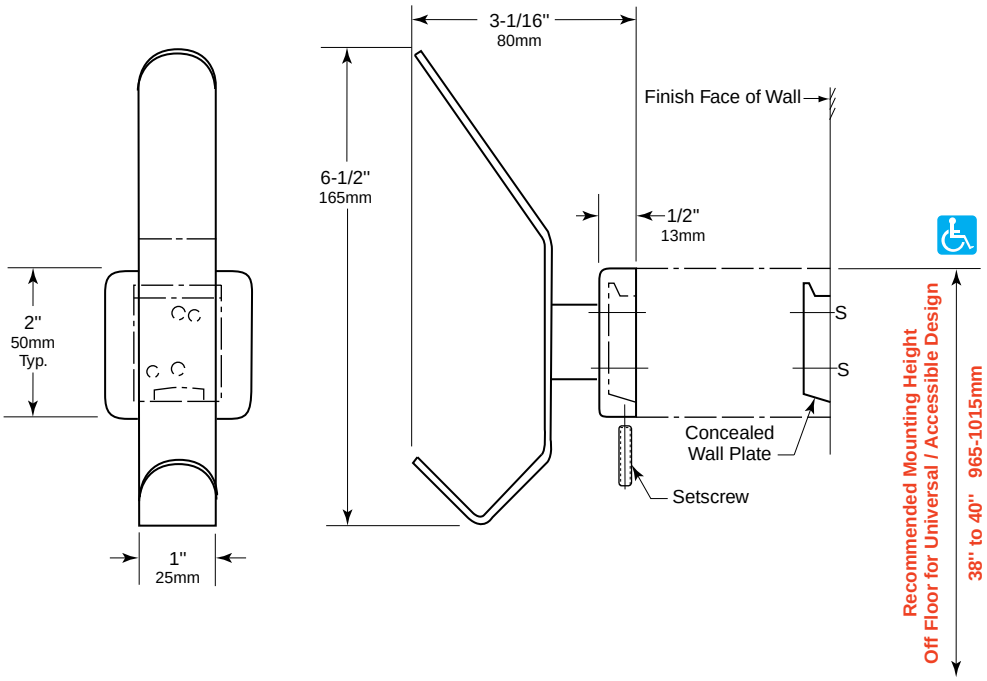
Technical Data

SURFACE-MOUNTED HAT AND COAT HOOK

B-682
B-6827

Specify Model Required: ☐ Model B-682 Bright polished stainless steel
☐ Model B-6827 Satin-finish stainless steel





MATERIALS:

Flange and Support Arm — 18-8, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 16-gauge (1.6mm) stainless steel mounting bracket. All-welded construction. Secured to wall plate with a stainless steel setscrew.

Concealed Wall Plate — 18-8, type-304, 16-gauge (1.6mm) stainless steel.

Hook — 18-8, type-304, 12-gauge (2.8mm) stainless steel. Welded to the support arm.

INSTALLATION:

To remove concealed wall plate from back of flange and mounting bracket, loosen setscrew. Mount wall plate so prongs are at top; secure with two sheet-metal screws, furnished by manufacturer, at points indicated by an *S*. Engage mounting bracket onto prongs of wall plate, then secure into position by tightening setscrew at bottom of flange.

For partitions with particle-board or other solid core, secure with sheet-metal screws furnished, or provide through-bolts, nuts, and washers.

For hollow-core metal partitions, provide solid backing into which the furnished sheet-metal screws can be secured.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws furnished.

For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Surface-mounted hat and coat hook shall be type-304 stainless steel with _____ (insert one: bright polished or satin) finish. Flange and support arm shall be 22 gauge (0.8mm) and equipped with a concealed, 16-gauge (1.6mm) mounting bracket that is secured to a concealed, 16-gauge (1.6mm) wall plate with a stainless steel setscrew. Hook shall be 12 gauge (2.8mm), welded to the support arm.

Surface-Mounted Hat And Coat Hook shall be Model _____ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet.
The manufacturer reserves the right to, and does from time to time, make changes and improvements in designs and dimensions.

Revised 6/30/15 Printed in U.S.A.
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COLUMBIA LOCKER® BENCHES

COLUMBIA LOCKER® Benches are made with ANTIMICROBIAL POLYLIFE®, POLYLIFE®, PHENOLIC® tops with a choice of mounting pedestals or wall brackets. PHENOLIC® Bench tops are 3/4" thick with corners rounded and edges ease. POLYLIFE® and ANTIMICROBIAL POLYLIFE® Bench tops are 1" thick.

TYPES

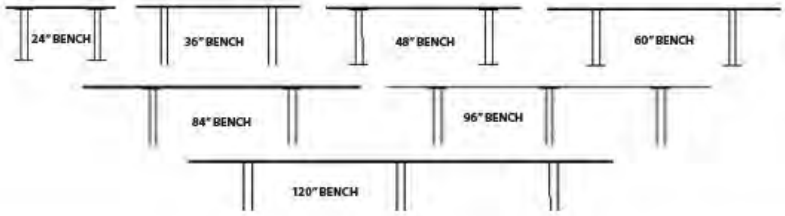


ADA Benches



SIZES

Wall Mounted	12" Wide x 24" to 120" Long
Pedestal Mounted	12" Wide x 24" to 120" Long
ADA	24" Wide x 36" to 48" Long
Benchtop	Custom



BRACKETS AND PEDESTALS



Black Powder Coated Aluminum Wall Bracket.



Stainless Steel Pedestal: 11 Gauge, satin finished, Type 304 Stainless Steel with 8" diameter flanges.



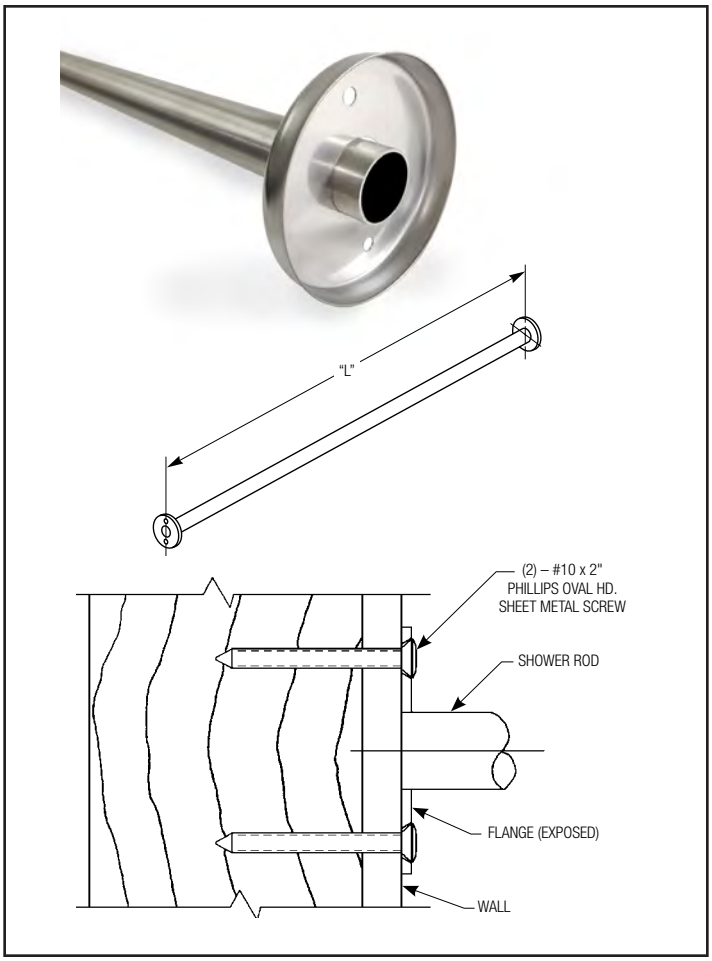
Black Powder Coated Steel Pedestal: 11 Gauge Steel center post with 8" diameter heli-arch welded flanges.



Black Powder Coated Aluminum Pedestal: Powder Coated, 2" square aluminum tubing with 6" square plates.

• U.S. Patent Numbers: 3,287,233-3,506,058-3,471,463
• Other Patents Pending

- [x] Exposed Mounting
- [x] Model 953 – 1" O.D.
  - ○ 36" ***Bradex***®
  - ○ 42"
  - ○ 48" ***Bradex***®
  - ○ 60" ***Bradex***®
  - ○ 72" ***Bradex***®
- [x] Model 9531 – 1¼" O.D.
  - ○ 36" ***Bradex***®
  - ○ 42" ***Bradex***®
  - ○ 48" ***Bradex***®
  - ○ 60" ***Bradex***®
  - ○ 72"



Product Materials

FLANGES: 22 gauge stainless steel. One-piece drawn construction with exposed surfaces in architectural satin finish.

TUBING: 18 gauge stainless steel, seamless construction with exposed surfaces in architectural satin finish.

Installation

Verify all rough-in dimensions prior to installation. To properly engage rod in support flanges, rod length must be no less than approximately ¼" shorter than wall opening. Secure one flange to wall with mounting screws (included) at holes provided. Align mounting holes vertically. Slip opposite flange over rod and secure to opposite wall with rod in place.

Guide Specification

Shower curtain rod shall be fabricated of 18 gauge stainless steel in satin finish. Flanges shall be of 22 gauge stainless steel.

Orders composed of products indicated as ***Bradex***® will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

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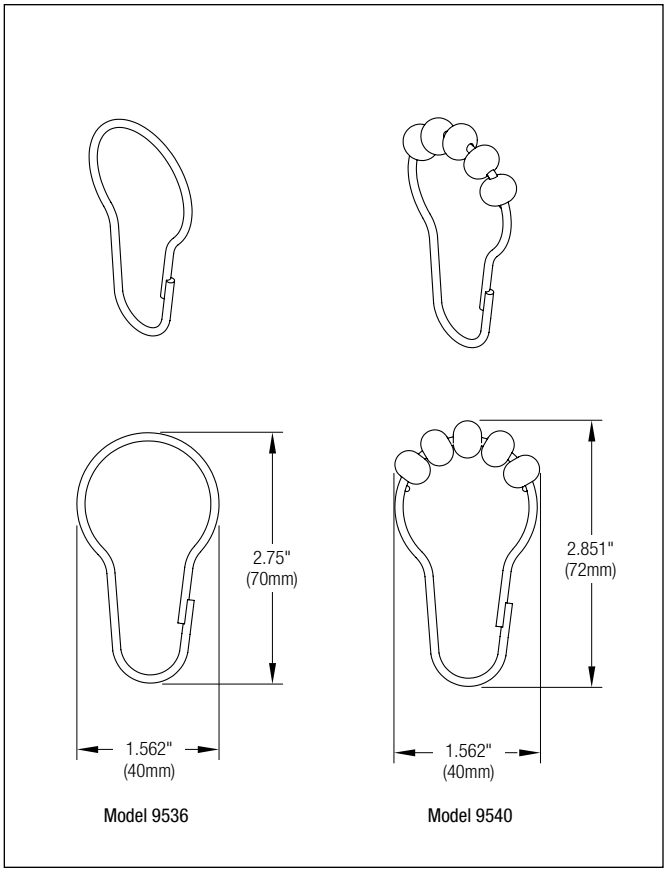
9536, 9540
Shower Curtain Hook

- ☑ Model 9536 – Shower Curtain Hook ***Bradex®***
- ☑ Model 9540 – Shower Curtain Hook with Rollers ***Bradex®***

Product Materials

Model 9536 Shower Curtain Hook: stainless steel spring wire with snap fastener. Can be used with 1" and 1¼" diameter curtain rods.

Model 9540 Shower Curtain Hook with Rollers: stainless steel wire with snap fastener. Rollers are brass with nickel plating. Five rollers per hook. Can be used with 1" and 1¼" diameter curtain rods.



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Room
121.3
ICE

ICEU220/225/226 - SELF CONTAINED CUBE ICE MAKER

Ice-O-Matic
Ice. Pure and Simple

121.3.01

ICEU220/225/226 SELF CONTAINED CUBE ICE MAKER



ICEU220

Features

- Space-saving 24" (623 mm) wide undercounter design.
- Produces up to 251 lbs (114 kg) of ice per day.
- *Harvest Assist* provides consistent ice production for the life of the ice maker while reducing energy consumption and increasing capacity.
- *Pure Ice®* exclusively by Ice-O-Matic. Built-in antimicrobial protection for the life of the ice maker inhibits bacteria growth on ice maker surfaces. Ice-O-Matic's optional water filtration system provides protection against unpleasant tastes, odors and scale formation.
- Durable, electroless nickel plating on all evaporator plates ensures reliability.
- *Longest warranty in the industry.* Purchase an Ice-O-Matic water filter with your cube ice maker, replace the filter every six months, and the evaporator warranty is extended to 7 years parts and labor *(available in the U.S. and Canada only).*
- Constructed from corrosion-resistant stainless steel and fingerprint-proof plastic.

Options & Accessories

WATER FILTERS			
Ice Machine Model	**Manifold**		**Inline**
	System	Replacement	System
ICEU220	IFQ1	IOMQ (1)	IFI4C / IFI8C
ICEU225			
ICEU226			

Ice Maker Warranty

Every Ice-O-Matic ice maker is backed by a warranty that provides both parts and labor coverage.

- Three years **Parts** and **Labor**.
- Five years **Parts** coverage on the evaporator and compressor.
- Seven years **Parts** and **Labor** on the evaporator when you purchase an Ice-O-Matic water filter with your cube ice maker and replace the filter every six months *(available in the U.S. and Canada only).*

Ice Form



CUBE

FULL CUBE DIMENSIONS	
W x D x H (in.)	7/8 x 7/8 x 7/8
W x D x H (mm)	22 x 22 x 22
HALF CUBE DIMENSIONS	
W x D x H (in.)	3/8 x 7/8 x 7/8
W x D x H (mm)	10 x 22 x 22

Space-Saving Solutions

- Front air discharge design for compact spaces.
- Low profile top saves counter space.
- Stores up to 70 lbs (32 kg) of ice.
- Easy front access to ice.
- Available with an air-cooled or water-cooled condenser.

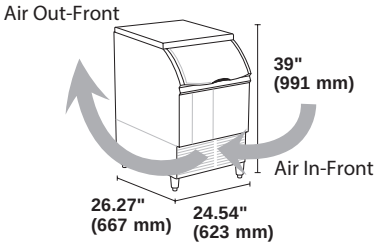
ICEU220/225/226 - SELF CONTAINED CUBE ICE MAKER

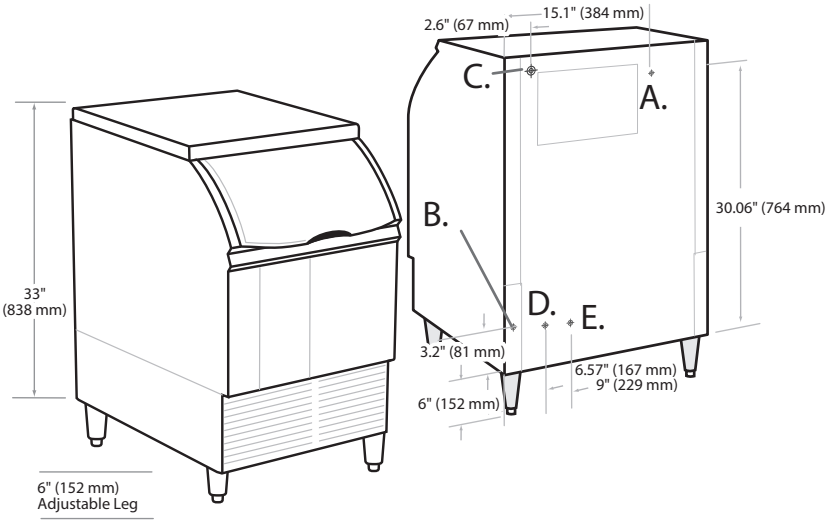
Ice-O-Matic
Ice. Pure and Simple

ICEU220/225/226 SELF CONTAINED CUBE ICE MAKER

Air and Water Cooled

A. Ice maker water in 3/8" FPT.
B. Bin and ice maker drain, 3/4" FPT.
C. Hole for electrical connections, 7/8" (Cord on 115V).
D. Condenser water in, 3/8" FPT (water cooled units only).
E. Condenser water out, 1/2" FPT (water cooled units only).





Front & Rear View

Operating Requirements

	MINIMUM	MAXIMUM	
		60 Hz	50 Hz
Ambient Temp. Range Air	50°F (10°C)	100°F (38°C)	110°F (43°C)
Water Temp.	40°F (4.4°C)		
Water Pressure	20 PSIG (1.4 BAR)	60 PSIG (4.1 BAR)	

Dimensions

ALL MODELS	
W x D x H (in.)	24.54 x 26.27 x 39
W x D x H (mm)	623 x 667 x 991

Specifications

Model Number	Cond. Unit	Ice Production per 24hrs		Water Usage gallons per 100 lbs of Ice 90°F air/70°F water		kWH Used per 100 lbs of ice @ 90°F air/ 70°F water	Voltage Characteristics	Min. Circuit Ampacity	Fuse Size	Approx. BTUs per hour**
		70°F air/ 50°F water lbs (kg)	90°F air/ 70°F water lbs (kg)	Potable	Condenser					
ICEU220A*★	Air	238 (108)	175 (79)	25.0	-	8.80	115/60/1	11.6	15	4,609
ICEU220W*	Water	251 (114)	193 (88)	37.1	175	6.60		8.9		4,288
ICEU225A	Air	211 (96)	143 (65)	32.7	-	8.80	220-240/50/1	4.9	16	3,774
ICEU225W	Water	210 (95)	174 (79)	36.6	156	6.30		4.1		3,780
ICEU226A★	Air	241 (109)	168 (76)	25.0	-	9.20	208-230/60/1	6.0	15	4,321
ICEU226W	Water	232 (105)	174 (79)	36.6	179	6.59		4.4		4,263

***BTUH is calculated 0°F Evaporator, 100°F Condensing, and 33 PSIG.*

NOTES:
Number of Wires: 3 (including ground)
Approx. Shipping Weight lbs (kg): ICEU220A 160 (73) • ICEU220W 160 (73) • ICEU225A 160 (73) • ICEU225W 160 (73) • ICEU226A 160 (73) • ICEU226W 160 (73)
Refrigerant Type: R404A
*Cordset included with 115V units.

★ENERGY STAR qualified machine. Please see our website www.iceomatic.com for the latest list of ENERGY STAR qualified machines and available rebates

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Rev: 04/16
Part: 1020

Room
122
Custodial

FIAT PRODUCTS

122.01

STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

TERRAZZO
12" MOP SERVICE BASIN

- One piece, precast terrazzo made of black and white marble chips in gray portland cement to produce a compressive strength not less than 3000 P.S.I. seven days after casting.
- Terrazzo surface shall be ground and polished with all air holes or pits grouted and excess removed.
- Shoulders shall be not less than 12" high outside and 10" inside at lowest wall.
- Shoulder width not less than 2" on all sides with a 1/4" pitch towards the inside.
- Standard drain body is stainless steel cast integrally and provides for a caulked lead connection not less than 1" deep to a 3" pipe.
- Stainless steel strainer # 1453BB
- Made in the U.S.A.

Options:

- QDC quick drain connectors
- Stainless steel tiling flanges available with up-charge. Must be custom order.
- Vandal proof drain. Must be custom order.

❑ **TSB100, TSB300, TSB500, TSB700 Series** with stainless steel caps on all curbs

❑ **TSB200, TSB400, TSB600, TSB800 Series** with plain curbs

Optional Components:

❑ **830AA** Mop Service Basin Fitting

❑ **832AA** Hose & Hose Bracket

❑ **1239BB** Aluminum Bumperguard with Vinyl Insert

❑ **833AA** Silicone Sealant

❑ **MSG** Wall Guards - Stainless Steel

❑ **FITF-24** Field Installable Tiling Flange, 24"

❑ **FITF-36** Field Installable Tiling Flange, 36"

❑ **889CC** Mop Hanger

❑ **889CCSHELF** Stainless Steel Shelf:
- Stainless steel rod, 3 large open hooks, three spring loaded rubber grips to hold mop handles



Shown: TSB500

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

INSTALLATIONS: Terrazzo Mop Basins **must** be installed on a 1/2" layer of mortar in order that the mop basin be level and to prevent cracking. Failure to install terrazzo without a mortar bed will void the warranty. Installations require a 1⁄4" clearance between mop basin and wall.

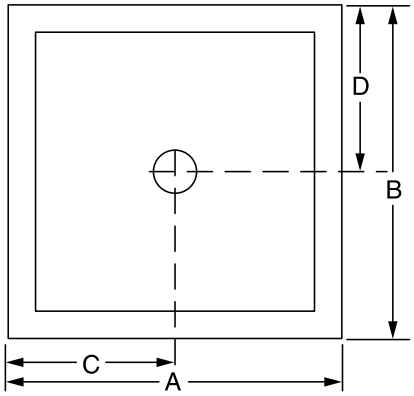
IMPORTANT: Rough-in dimensions may vary 1/2" (13mm) and are subject to change or cancellation without prior notice.

CERTIFICATIONS:
Meets requirements CSA B45.8-18 / IAPMO Z403-2018.
All models are CUPC listed

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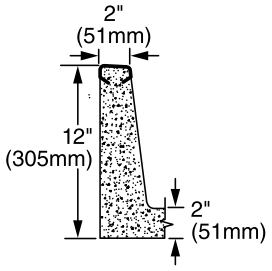
FIAT PRODUCTS

STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

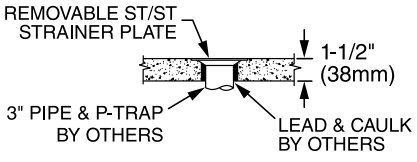


Series TSB100
With Stainless Steel Caps On All Curbs

MODEL	SIZE	A	B	C	D
TSB100	24" x 24" x 12"	24	24	12	12
TSB300	32" x 32" x 12"	32	32	16	16
TSB500	36" x 36" x 12"	36	36	18	18
TSB700	36" x 24" x 12"	36	24	18	12



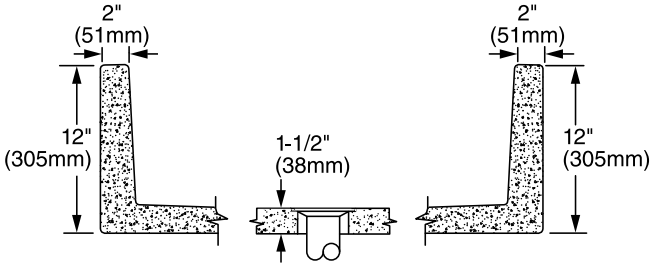
ST/ST CAP DETAIL



SECTION THRU DRAIN

Series TSB200
With Plain Curbs

MODEL	SIZE	A	B	C	D
TSB200	24" x 24" x 12"	24	24	12	12
TSB400	32" x 32" x 12"	32	32	16	16
TSB600	36" x 36" x 12"	36	36	18	18
TSB800	36" x 24" x 12"	36	24	18	12



SECTION THRU THRESHOLD | SECTION THRU DRAIN (LEAD CAULK & 3" PIPE "P" TRAP BY OTHERS) | SECTION THRU SIDES

IMPORTANT: Roughing in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

FIAT PRODUCTS

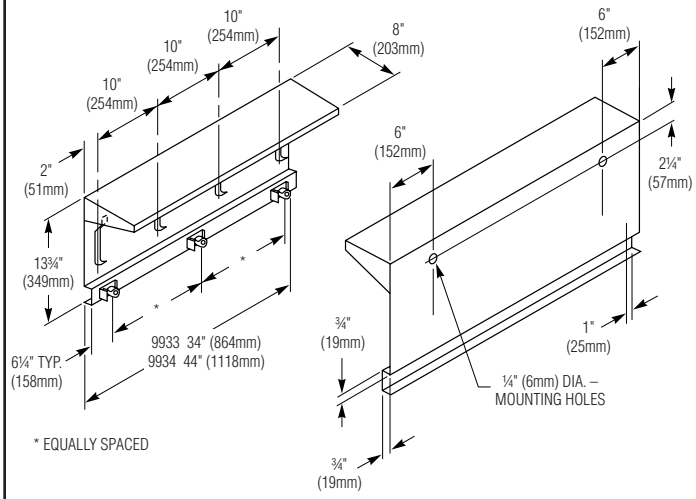
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9933, 9934
Utility Shelf

- ☑ Model 9933 – 4 Hooks/3 Holders *Bradex*®
- ☑ Model 9934 – 5 Hooks/4 Holders





Product Materials

SHELF AND BRACKET: 18 gauge stainless steel with exposed surfaces in architectural satin finish.

HOOKS: 14 gauge stainless steel

HOLDERS: spring-activated rubber cams on plated steel retainers. Will hold a mop or broom handle with a diameter between 5/8" and 1".

Operation

Weight of mop or broom holds handle in place.

Installation

Verify all rough-in dimensions prior to installation. Secure to wall with mounting screws (included) at holes provided.

Guide Specification

Surface mounted utility shelf shall be fabricated of 18 gauge stainless steel in satin finish. Hooks shall be of 14 gauge stainless steel. Holders shall be with spring-activated rubber cams.

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ELKAY®
SPECIFICATIONS

Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit

Model(s) ESSB2520C

122.03

PRODUCT SPECIFICATIONS

Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit. Sink is manufactured from 14 gauge 304 Stainless Steel with a Buffed Satin finish, Center drain placement.

Material:	304 Stainless Steel
Finish:	Buffed Satin
Gauge:	14
Number of Bowls:	1
Sink Dimensions:	25" x 19-1/2" x 24"
Bowl 1 Dimensions:	22" x 16" x 12"
Drain Size:	3-1/2" (89mm)
Drain Location:	Center



Included with Product: **ESSB2520 sink, one LK940BR03L2H faucet, one LK173 cast iron P-trap**

▼ Ships in multiple boxes.

A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

Product Compliance: ASME A112.19.3/CSA B45.4
Buy American Act
Faucet: ADA & ICC A117.1
ASME A112.18.1/CSA B125.1
NSF 372 (lead free)
NSF 61
Accessory: ASME A112.18.2/CSA B125.2

Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Faucet complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

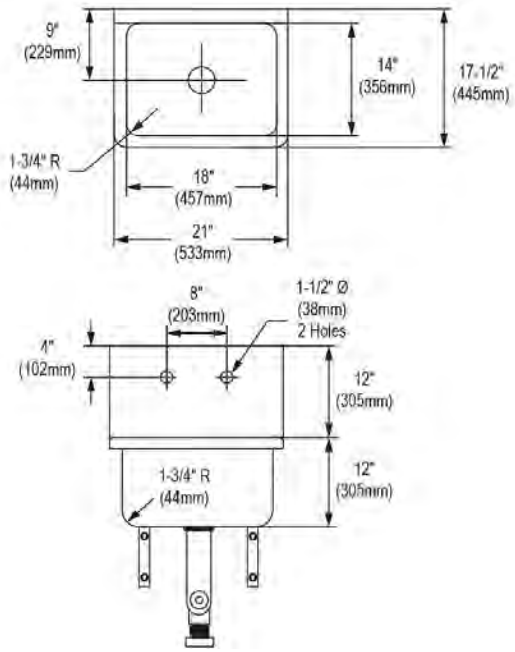
Clean and Care Manual (PDF)
Installation Instructions (PDF) - A55483
Installation Instructions (PDF) - P99365
Warranty (PDF)

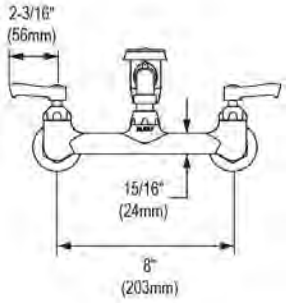
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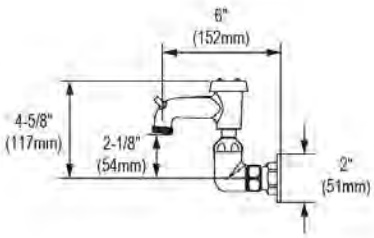
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Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit

Model(s) ESSB2520C



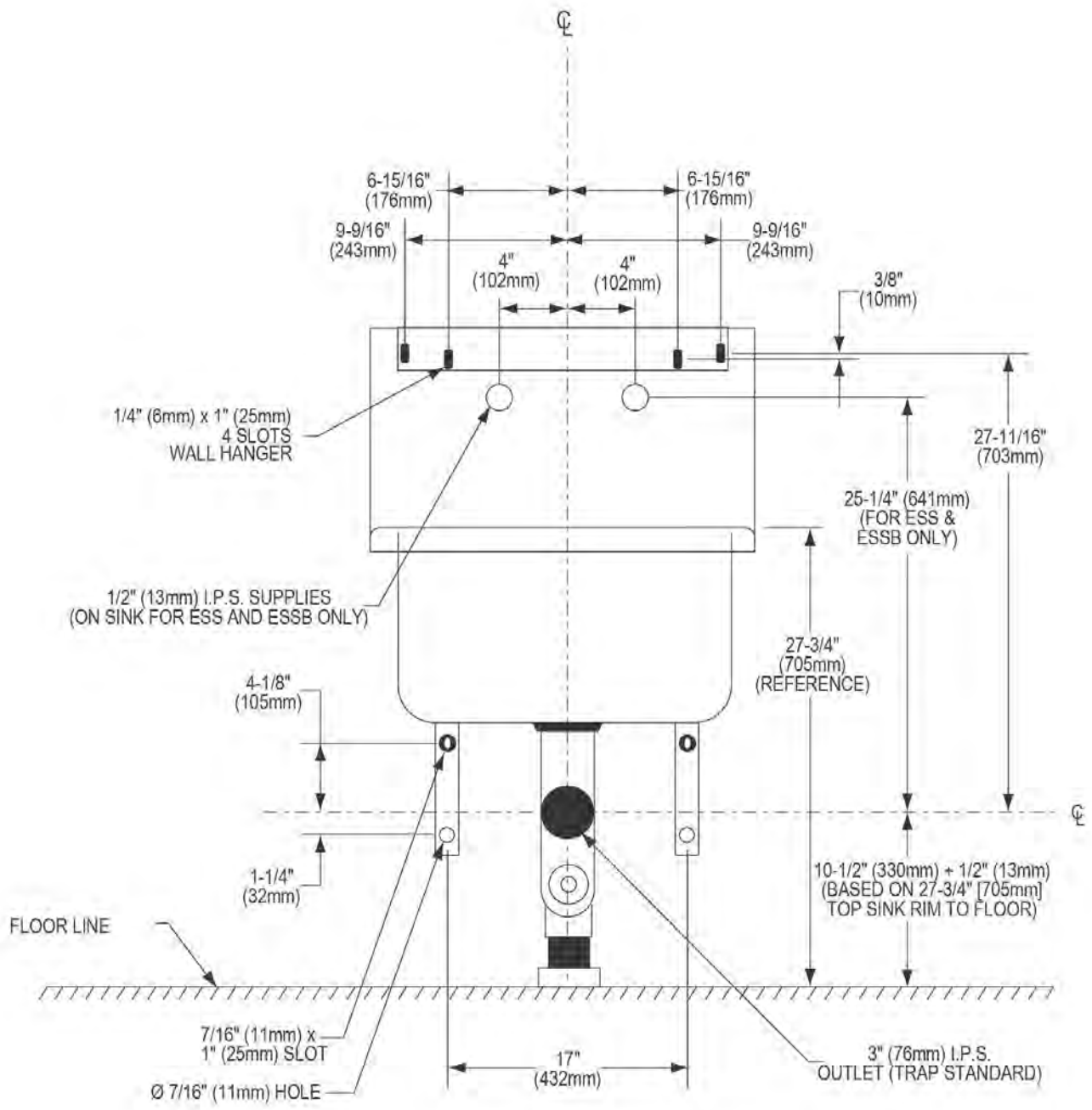




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Elkay Stainless Steel 25" x 19-1/2" x 12 Wall Hung Service Sink Kit

Model(s) ESSB2520C



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122.04

10 56 13/EZS

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E-Z SHELVING SYSTEMS, INC.

Manufacturer of Space-Saving Cantilever Shelving & Hardware



- Shelving Systems Manufactured to Any Size Practical
- Infinitely Adjustable Shelf Tiers
- Additional Tiers Can Be Added With No Tear Down
- Shelves Form a Continuous Backsplash
- 1 1/4" Clearance Between Wall and Shelf
- Heavy-Duty Construction
- "Spacemaker System" for Walk-In Coolers
- Shelving Available in Many Types and Finishes

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OUR BUILT-IN BENEFITS

E-Z Shelving Systems were designed with convenience in mind. Unlike four-post shelving, E-Z's cantilever shelving decks have no post supports to get in the way, making shelf loading and unloading – E-Z!

E-Z Shelving Advantages:

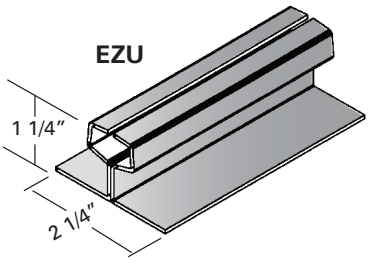
1. Open-front shelving (no posts) for 100% usable space.
2. Totally usable floor space under shelf.
3. Shelving systems manufactured to any size practical allowing for custom design at no additional cost.
4. Shelf tiers are infinitely adjustable, and new tiers can be installed without disassembly.
5. Additional tiers can be added with no tear down required.
6. Shelves form a continuous backsplash which keeps stored items nested to protect both wall and stored items.
7. Systems' design assures a 1-1/4" clearance between wall and shelf allowing for ventilation and utility chases.
8. Heavy-duty industrial grade rugged construction.
9. Special ceiling brackets allowing "Spacemaker System" to be installed in walk-in coolers.
10. Shelving available in galvanized, stainless steel, aluminum and powder coat. Shelving types include; solid, louvered, wire and NSF.

A completely flexible industrial shelving system.

UPRIGHT SPECIFICATIONS

E-Z Uprights for Wall-Mounted Storage

Shall consist of 14 gauge rolled steel channels, continuously seam-welded electro zinc plated and chromate dipped to ensure against rust and corrosion, punched to accept 1/4" lag screws, bolts, etc., for mounting to walls. Mounting holes shall begin 2" from each end.



Stock upright lengths:

EZU-1	12"	EZU-6	72"
EZU-2	24"	EZU-7	84"
EZU-3	36"	EZU-8	96"
EZU-4	48"	EZU-10	120"
EZU-5	60"	EZU-12	144"

Note: *Stock uprights can also be cut to your desired length. NSF-listed uprights, available in standard electro- zinc finish, series #304 stainless steel, or #6061-T6 extruded aluminum.*
Note: *Stainless uprights are brake formed.*

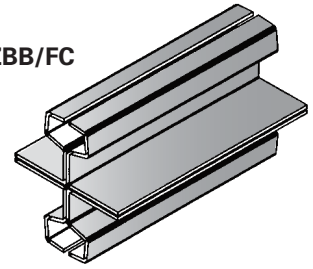
Aluminum extruded uprights (part no. EZU/A) are now available.

E-Z Uprights for Center Room Storage

Two uprights (shown below), are bolted or welded back-to-back, and used for floor-to-ceiling application. Used in conjunction with foot and ceiling bracket assemblies for secured and rigid anchoring. This provides the best method for maximizing storage space in the center of any size room.

Stock uprights available in lengths up to 12 ft. Longer uprights available upon special request.

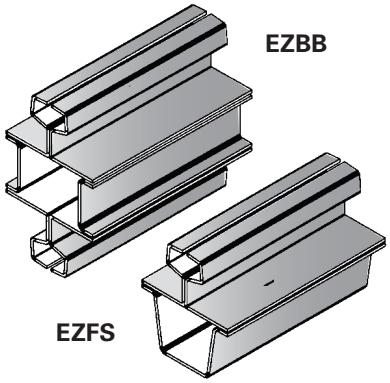
EZBB/FC



E-Z Freestanding (Single Faced) and Back-to-back (Double Faced) H.D. Uprights

Heavy-duty uprights shall consist of 14 gauge rolled steel channels, continuously seam welded, then unitized to a 14 gauge reinforcement channel, electro-zinc plated and chromate dipped. Used in conjunction with EZXB anti-sway bars.

Note: *Reinforcement channels add 3" to depth of uprights)*



Back-to-back (EZBB) (Double Faced) Unitized Upright Lengths:

EZBB-5	60"
EZBB-6	72"
EZBB-7	84"
EZBB-8	96"

Freestanding (EZFS) (Single Faced) Unitized Upright Lengths:

EZFS-5	60"
EZFS-6	72"
EZFS-7	84"
EZFS-8	96"

Other lengths available.

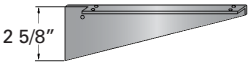
BRACKET SPECIFICATIONS

E-Z Single Shelf Brackets (EZB) with Clamps

Shall be of 12 gauge steel electro-zinc plated and chromate dipped, after fabrication, assuring complete protection of all sheared edges. Each bracket shall be furnished with E-Z clamp assembly, zinc-plated 3/8" bolt and nut. Brackets available top flanged left or right, depending on mounting position at ends of shelving runs. See chart on page 4 for recommended load limitations.

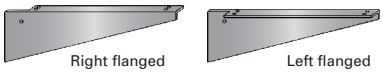


6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.



6", 8" brackets: 2 5/8", 12 ga.
10", 12", 14" brackets: 3 1/8", 12 ga.

E-Z Single Shelf Brackets (EZB) with Clamps (continued)



Stock bracket sizes:

EZB-6	6″	length for	6″ shelves
EZB-8	8″	length for	8″ shelves
EZB-10	10″	length for	10″ shelves
EZB-14	14″	length for	14″ shelves
EZB-16	16″	length for	16″ shelves
EZB-18	18″	length for	18″ shelves
EZB-20	20″	length for	20″ shelves
EZB-22	22″	length for	22″ shelves
EZB-24	24″	length for	24″ shelves
EZB-26	26″	length for	26″ shelves
EZB-28	28″	length for	28″ shelves
EZB-30	30″	length for	30″ shelves

For metal shelves use the same bracket size as shelf depth to assure match up of shelf attaching holes.

For wood shelves, use bracket length 2″ shorter than the actual shelf depth. Custom bracket lengths available upon special request.

EZB denotes standard bracket style. Consult price list for NSF and stainless steel and aluminum bracket designations.

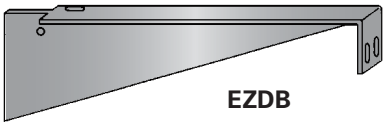
E-Z Double Brackets (EZDB) with Clamps

Shall support two adjoining shelves on a common upright. Brackets of same construction as EZB shelf bracket, with addition of a 14 gauge steel plate welded to its top horizontal flange. Double bracket shall be electro-zinc plated and chromate dipped to protect all sheared edges. Available in the following sizes specifically designed to fit the shelf size stated:

EZDB	12″	for	12″	deep shelves
EZDB	14″	for	14″	deep shelves
EZDB	16″	for	16″	deep shelves
EZDB	18″	for	18″	deep shelves
EZDB	20″	for	20″	deep shelves
EZDB	22″	for	22″	deep shelves
EZDB	24″	for	24″	deep shelves
EZDB	26″	for	26″	deep shelves
EZDB	28″	for	28″	deep shelves
EZDB	30″	for	30″	deep shelves

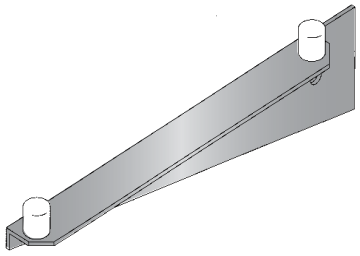
Other sizes available on special order.

Consult price list for NSF and stainless steel and aluminum double bracket designations.



EZDB

E-Z Single (EZB-K) & Double (EZDB-K) Knob Brackets



For use with wire shelving to support either a single or two adjoining wire shelves on a common upright.

Stock sizes:

12″, 14″, 15″, 18″, 21″ & 24″.

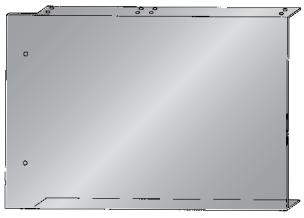
E-Z Single Foot (EZFB) & Double Foot (EZDFB) Brackets

For use with freestanding and back-to-back shelving systems. Brackets shall be furnished with 2 E-Z clamp assemblies, zinc-plated 3/8″ bolts and nuts. Brackets shall be of 12 gauge steel, electro-zinc plated and chromate dipped. Foot brackets serve as a base for the bottom shelf. Standard height is 9 1/2″.
5 1/2″ H available by special order.

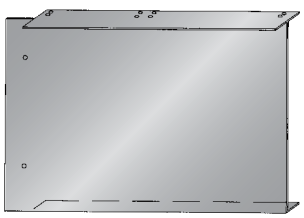
Stock Sizes:

EZFB	(or EZDFB)	129	12″ x 9 1/2″
EZFB	(or EZDFB)	149	14″ x 9 1/2″
EZFB	(or EZDFB)	169	16″ x 9 1/2″
EZFB	(or EZDFB)	189	18″ x 9 1/2″
EZFB	(or EZDFB)	209	20″ x 9 1/2″
EZFB	(or EZDFB)	229	22″ x 9 1/2″
EZFB	(or EZDFB)	249	24″ x 9 1/2″
EZFB	(or EZDFB)	269	26″ x 9 1/2″
EZFB	(or EZDFB)	289	28″ x 9 1/2″
EZFB	(or EZDFB)	309	30″ x 9 1/2″

Consult price list for NSF and stainless steel foot and double foot bracket designations.



EZFB



EZDFB

SHELF SPECIFICATIONS

Standard Finish E-Z Galvanized Steel Shelving (EZGS)

Shall be constructed of 16 gauge G-90, LFQ, ASTM A-653 galvanized sheet, with front and rear edges flanged in two directions to provide structural rigidity, and to withstand shelf failure.*See chart on page 4 for allowable loading.

Standard shelf lengths are: 36″, 48″ and 60″. Shelves of virtually any length, however, can be fabricated allowing a "glove fit" regardless of room size, and without custom upcharge.

Stock shelf depths:

EZGS 6″		EZGS 18″	EZGS 24″
EZGS 8″	EZGS 14″	EZGS 20″	EZGS 28″
EZGS 10″	EZGS 16″	EZGS 22″	EZGS 30″

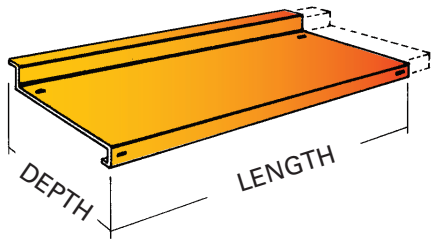
Optional shelf materials: 18 gauge, stainless steel, type #304, and .080 aluminum, series #5052.

E-Z Painted Shelving

16 gauge heavy-duty phosphate-primed steel, shall be coated with electrostatically applied plastic powder resin. Standard Colors: white, tan, black and gray. Custom colors available on request.

Technical Data:

Hardness: 2H tested in accordance with ASTM D-3363
Flexibility: Passes 1/8″ (3mm) conical mandrel tested in accordance with ASTM D-522
Impact Resistance: 160/160 direct and reverse tested in accordance with ASTM D-2794
Tensile Strength: (5,300 psi) (373 kg per square centimeter)
Elongation: 3%



Custom Tailored:
Precise shelf lengths to your specifications without custom upcharge.

INSTALLING UPRIGHTS ARE E-Z

We can provide anchoring and or blocking recommendations with your quotation per your request.

The uprights height needs to allow for top shelf to be located one foot below the top of the uprights.

Walls need sufficient backing for proper utilization of fasteners.

E-Z SHELVING SPACEMAKER™ SYSTEM

Engineered to Achieve Maximum Usage of Your Refrigerated Storage Space.

E-Z Shelving Spacemaker Systems has a unique cantilever design enhanced by the following features:

Innovative Works with both standard insulated refrigerator/freezer walls or foamed walls with thin skins. Available with accessories such as meat rail brackets, meat rails, meat hooks, etc.

Strong, Rigid, Heavy-Duty Engineered to handle your present, as well as future refrigerated commodity needs. Rolled steel or stainless steel E-Z uprights will distribute the loads in your standard foamed box without failure when installed simply as shown in the detailed sketch below. The E-Z System is guaranteed to carry the loads in your coolers and freezers per our charts.

No Wall Backing Required Experience has proven that on foamed wall sections as light as 26 gauge, ***no backing is required to mount E-Z uprights to carry capacity loads.***

No Floor Supports Required The cantilever design eliminates the need for floor supports providing an uninterrupted shelf of infinite length and yielding unobstructed floorspace, facilitating maintenance.

OUR CUSTOMER LIST:

AT&T • Alaska Airlines • Apple • Ansel Adams Museum • Army Corp of Engineers • The Australian Embassy – Washington, D.C. • BASF • Bayer Corp • Bechtel, Inc. • Boeing Military Airplanes • Brookstone • Burton Snowboards • Cal Trans • City of Los Angeles • Comcast Cable • Community Environmental Council • Conde' Nast Publications • Continental Airlines • Del Webb Development • Dow Chemical • Dupont • ExxonMobil • Federal Bureau of Prisons • General Electric • General Mills • U.S. Dept of Homeland Security • IBM • John Hopkins University Medical Center • Lever Brothers • Lockheed Martin • The Mayo Clinic • Martin Marietta • Motorola • NASA • Nabisco • National Institutes of Health • Naval Undersea Warfare Center • NYU School of Medicine • Parkland Memorial Hospital • PEPSICO • Pizza Hut • Ralph Lauren - POLO • The Smithsonian Institute • Stanford University • Trader Joe's • Tulane University • UPS • United States Department of Agriculture • United States Postal Service • University of Michigan • University of Nevada at Las Vegas • University of Pennsylvania • Medical Center – Pathology Laboratory • University of Rochester Hospital • University of Texas – Cyclotron Project • United States Embassy – Bejing, CHINA • Walt Disney Corporation • Woods Hole Oceanographic Institute • Yale University Medical School • Wired Magazine

ACCESSORIES & SPECIALTY ITEMS

- Louvered Shelves
- Turnout Gear Racks
- Wire Shelves:
  1. Zinc
  2. Chrome
  3. Epoxy
  4. Stainless Steel
- Seismic Accessories

DESIGN BASIS FOR FULL LOADS

When using 4 ft. long standard E-Z metal shelves for "continuous runs" (where two shelf sections use one common double bracket and upright), only the carrying capacity of the double bracket (EZDB) needs be considered (See Allowable Bracket Loading chart). The double bracket carries half the load of the two adjoining shelves to equal one shelf load per double bracket.

Note: The brackets at the ends of a single shelf section each carry only one half the shelf load.

Allowable Bracket Loading (per bracket)

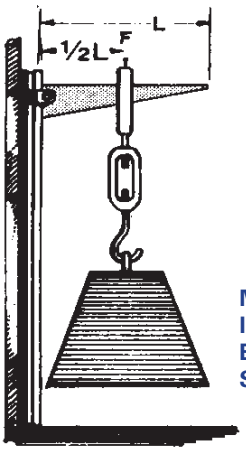
Bracket Length L	Pre-Set Angle α	Load at Failure F	Deflection at Failure D	Recommended Max. Load	Deflection at Rec. Load
6	.078″	1125 lbs.	5/32″	750 lbs.	1/16″
8	.104″	925	1/4″	625	1/8″
10	.130″	900	3/8″	590	3/16″
12	.156″	870	7/16″	560	1/4″
14	.182″	840	1/2″	540	5/16″
16	.208″	810	13/32″	530	1/4″
18	.234″	750	7/16″	465	9/32″
20	.260″	690	15/32″	395	5/16″
22	.286″	625	1/2″	390	11/32″
24	.312″	610	5/16″	360	1/8″
26	.338″	560	3/8″	345	3/16″
28	.364″	530	7/16″	335	1/4″
30	.390″	500	1/2″	310	5/16″

The following data on shelf spans is for a single shelf section and in some cases should be reduced by one half when using double brackets.

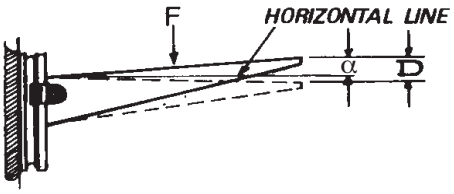
On the Allowable Bracket Loading chart, "F" (load at failure) is the load at which permanent deflection may start.

Pre-set angle of bracket (a) Position of load for testing (F) Measure of deflection at failure (D). Based upon evenly distributed weights. Not for aluminum.

E-Z Shelving Systems, Inc.
5538 Merriam Drive • Merriam, KS 66203-2548
Phone: 913.384.1331 • Fax: 913.384.3399
1-800-353-1331
www.e-zshelving.com



Method of load testing E-Z Shelving System brackets.



Allowable Shelf Loading Capacity (In Pounds Per Sq. Ft.)

SHELF SIZES (DEPTH)	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
EZGS-12	560	370	280	220	140
EZGS-16	405	270	200	160	100
EZGS-18	310	200	150	110	70
EZGS-20	235	150	117	90	60
EZGS-24	197	130	100	70	55
EZGS-28	145	96	70	60	45

Allowable Concentrated Loading in Pounds

FOR ALL SHELF SIZES	Length of Span Between Brackets				
	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.
	800	600	450	350	300

PLANNING YOUR DESIGN OR BID

Please forward your drawing with as much of the following information available.

1. Depth x length of shelves and height of uprights.
2. Number of tiers required per section.
3. Anticipated loading and usage.
4. Shelving style, e.g., wall-mounted, freestanding, floor to ceiling and walk-in cooler with ceiling brackets.
5. Shelving finish, galvanized, stainless steel, powder coat or aluminum.
6. Shelving type, solid, louvered, NSF or wire.
7. New construction or existing walls; type of wall.
8. Destination of project with zip code.

Note: Our "Quotation Form" is available on line for you to fill out and send in. See our website: www.e-zshelving.com

123.05

EQUIPMENT

T300e WALK-BEHIND FLOOR SCRUBBER

The innovative high performance scrubber designed to reduce costs to clean, improve facility image & provide a safe environment for your staff.



KEY BENEFITS

Cost Effective & Reliable

- Improved and durable components extend machine life and reduce cost of ownership.
- Effective scrubbing capabilities for clean, safe floors in fewer passes.

Versatile Cleaning Performance

- Outstanding water pick-up for reduced slip and fall accidents.
- Minimize water consumption with optional ec-H2O NanoClean® technology.
- Quiet 67 dBA noise level for daytime cleaning with minimal disruption.

Easy Operation & Maintenance

- Easy to use with ergonomic design delivers foot activated squeegee to minimize bending and wider handle for improved machine operation.
- Optional Insta-Click™ head for easy, low-touch pad attachment and removal.

KEY FEATURES

Multiple Head Options



- Head types with high down pressure and RPM's for excellent cleaning results.
- Fit your cleaning solutions and optimize cleaning performance for specific areas.

Insta-Click™



- Optional magnetic head allows pads and brushes to be ergonomically positioned and results in faster installation.

Improved Squeegee Design

- Helps ensure dirt and soils are removed from the floor for reduced risk of slip-and-fall accidents, and yellow touch points simplifies preventative maintenance and training requirements.



Stone Care Daily Maintenance Capabilities

- A complete floor care process that restores the natural beauty of porous stone and produces a remarkable, long-lasting shine with the 3M™ Stone Floor Protection System.



EXCLUSIVE TECHNOLOGY

ec-H2O NanoClean® technology electrically converted water is created by an on-board e-cell that generates millions of very tiny microscopic bubbles known as nanobubbles that promote the cleaning efficacy of the solution. This next generation solution offers the same great benefits of the first generation and now cleans better and cleans more soils in more applications.

ec H2O® NanoClean

Scan this cover for virtual demo or download App

Download on the App Store

T300e WALK-BEHIND FLOOR SCRUBBER

	SINGLE DISK		SINGLE DISK		DUAL DISK	ORBITAL
	17 IN/430 MM PAD ASSIST	17 IN/430 MM SELF-PROPEL	20 IN/500 MM PAD ASSIST	20 IN/500 MM SELF-PROPEL	24 IN/600 MM PROPEL	20 IN/500 MM SELF-PROPEL
Productivity (per hour)						
Theoretical Max	17,000 ft²/1,579 m²		20,000 ft²/1,858 m²		24,000 ft²/2,230 m²	20,000 ft²/1,858 m²
Estimated Coverage*						
Conventional	9,340 ft²/868 m²	12,453 ft²/1,157 m²	11,208 ft²/1,041 m²	14,943 ft²/1,388 m²	18,264 ft²/1,697 m²	14,943 ft²/1,388 m²
ec-H2O NanoClean®	9,668 ft²/898 m²	12,891 ft²/1,198 m²	11,602 ft²/1,078 m²	15,469 ft²/1,437 m²	18,906 ft²/1,756 m²	15,469 ft²/1,437 m²
BRUSH DRIVE SYSTEM						
Scrub motor	24 VDC, 0.68 hp/ 0.50 kW		24 VDC, 0.68 hp/ 0.50 kW		24 VDC, 1 hp/0.75 kW	0.6 hp/0.45 kW
Brush/pad RPM	150 rpm		150 rpm		285 rpm	2,200 rpm
Brush/pad pressure	47 lbs/21 kg Optional 86 lbs/39 kg		51 lbs/23 kg Optional 90 lbs/41 kg		57 lbs/26 kg Optional 97 lbs/44 kg	63 lbs/29 kg Optional 109 lbs/49 kg
SOLUTION/RECOVERY SYSTEM						
Solution tank capacity	11 gal/42 L		11 gal/42 L		11 gal/42 L	11 gal/42 L
Recovery tank capacity	14 gal/53 L		14 gal/53 L		14 gal/53 L	14 gal/53 L
Vacuum motor	24 VDC, 0.5 hp/0.37 kW		24 VDC, 0.5 hp/0.37 kW		24 VDC, 0.5 hp/ 0.37 kW	24 VDC, 0.6 hp/ 0.37 kW
Vacuum waterlift	34.5 in / 876 mm		34.5 in / 876 mm		34.5 in / 876 mm	34.5 in / 876 mm
CLEANING TECHNOLOGY						
Conventional	Standard		Standard		Standard	Standard
ec-H2O NanoClean®	Optional		Optional		Optional	Optional
BATTERY SYSTEM						
System voltage	24 volt		24 volt		24 volt	24 volt
Battery types (Wet 130AH, Wet 150AH, Sealed AGM 140AH)	2 required		2 required		2 required	2 required
Battery run time (up to hours)	3.9	3.6	3.3	3.1	3.4	3.7
On-board charger	Standard		Standard		Standard	Standard
MACHINE SPECIFICATIONS						
Length	51.25 in/1,302 mm		54 in/1,372 mm		51.75 in/1,314 mm	49 in/1,245 mm
Width	20 in/500 mm		22 in/559 mm		26 in/660 mm	20.5 in/521 mm
Height	43.10 in/1,095 mm		43.10 in/1,095 mm		43.10 in/1,095 mm	43.10 in/1,095 mm
Weight (without batteries)	220 lbs/98 kg	230 lbs/104 kg	230 lbs/104 kg	240 lbs/109 kg	250 lbs/113 kg	255 lbs/116 kg
Weight (with batteries)	366 lbs/166 kg	390 lbs/177 kg	376 lbs/171 kg	400 lbs/181 kg	410 lbs/186 kg	415 lbs/188 kg
Sound level (operator's ear)	67 dBA		67 dBA		67.7 dBA	67.5 dBA
WARRANTY						
See your local representative for warranty information						

* Estimated coverage rates use the practical speed and empty/fill time standards from the 2004 ISSA Cleaning Times handbook.
** Run times are based on Continuous Scrubbing Run Times.
*** Sound levels per ISO 11201 as recommended by the American Association of Cleaning Equipment Manufacturers & OSHA.

Specifications subject to change without notice.

NFSI HIGH-TRACTION ec-H2O NanoClean® technology is NFSI (National Floor Safety Institute) Certified

NSF ec-H2O NanoClean technology is registered by NSF International

SEEING IS BELIEVING

For a demonstration or additional information, call +1.800.553.8033 or email info@tennantco.com

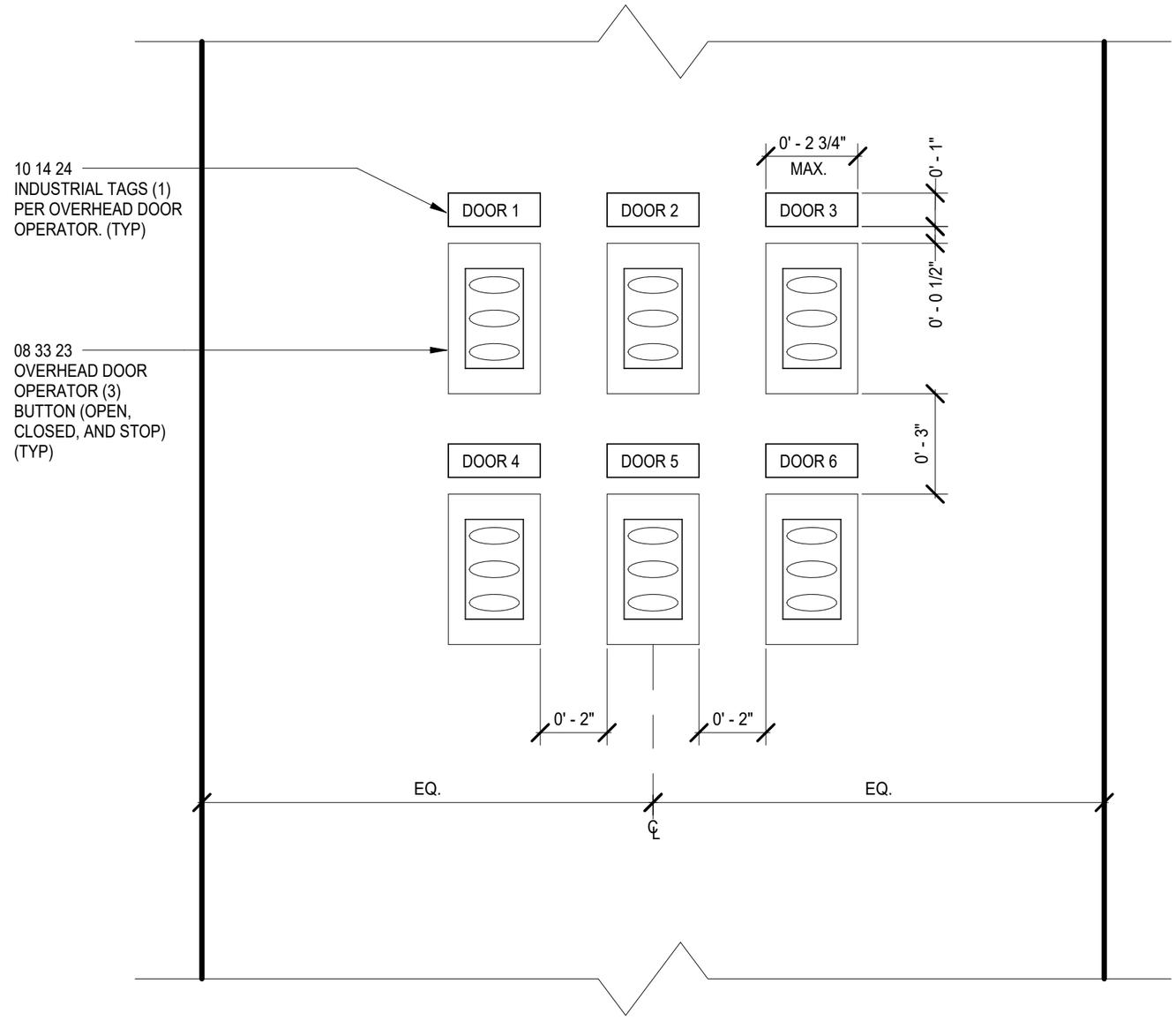
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Overseas: +1.763.540.1315

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info@tennantco.com

t300e-brochure-en-noam 8/20
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Room
123
Watch Room



4 O.H. DOOR CONTROL PUSH BUTTON ASSEMBLY

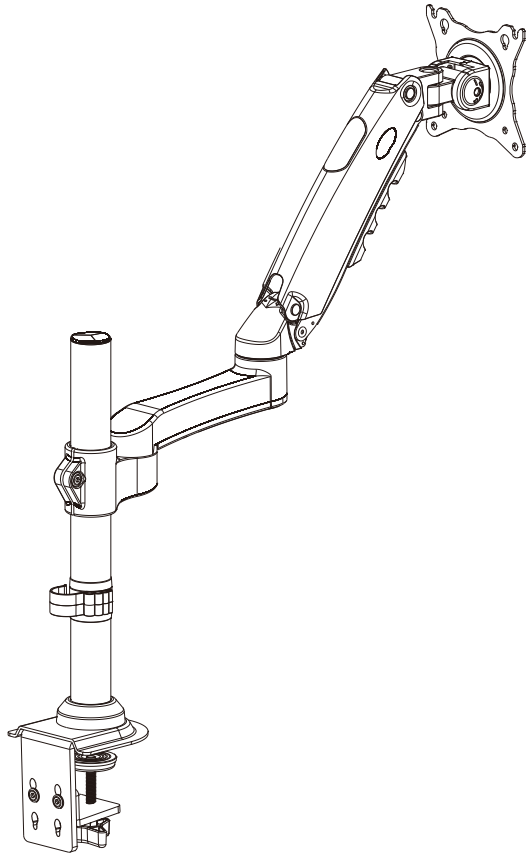
SCALE 3" = 1'-0"

124.12

HUANUO

Monitor Desk Mount Instruction Manual

V3.0



Model: HNSS8

Website:
www.huanuoav.com

Thank you for choosing this Huanuo product! At Huanuo we strive to provide you with the best quality products and services in the industry. Please share your experience of our product with others at www.huanuoav.com/reviews if you are satisfied. Should you have any issues, please don't hesitate to contact us.

Technical Support:
1-800-556-0533 Mon-Fri 10am – 5pm (PST) (USA) (CAN)
Other Info:
supporteu@huanuoav.com (DE/UK/FR/IT/ES/AU)
support@huanuoav.com(US/CA)

IMPORTANT SAFETY INFORMATION

Please carefully read all instructions before attempting installation. If you do not understand the instructions or have any concerns or questions, please contact our Technical Support line at 1–800–556–0533 or customer service at support@huanuoav.com

CAUTION: Avoid potential personal injuries and property damage!

• Do not use this product for any purpose that is not explicitly specified in this manual. Do not exceed weight capacity. We are not liable for damage or injury caused by improper mounting, incorrect assembly or inappropriate use.

• This product contains a high pressure gas spring, fire and percussion prohibited. Also it is strictly prohibited to dismantle without professionals. Please return to the manufacturer or hand over to professional agencies if the product is abandoned.

• The desk must be capable of supporting three times the weight of the total load (the mount, the monitor and all accessories weight). Don't use the product on particle board.

Weight Restrictions



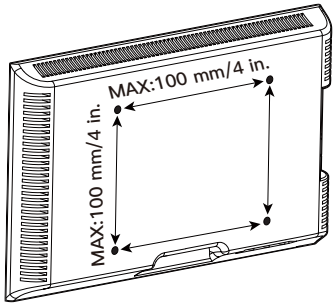
Your Monitor (including accessories) CANNOT EXCEED 4.4–19.8lbs (2–9 kg)

⚠ WARNING

DO NOT exceed the maximum weight indicated. This mounting system is intended for use only within the maximum weights indicated. Use with products heavier than the maximum weights indicated may result in failure of the mount and its accessories, causing possible damage and or injury.

If your monitor weighs more, this mount is NOT compatible.

Check the VESA Pattern of Your Monitor before You Begin the Installation



Note:

If your monitor does not have any mounting hole or VESA pattern is 200x100mm/8x4 in., you will need:

Our Universal VESA Bracket Kit HUMUA1(if your monitor is no larger than 27 in.) or HUMUA4.

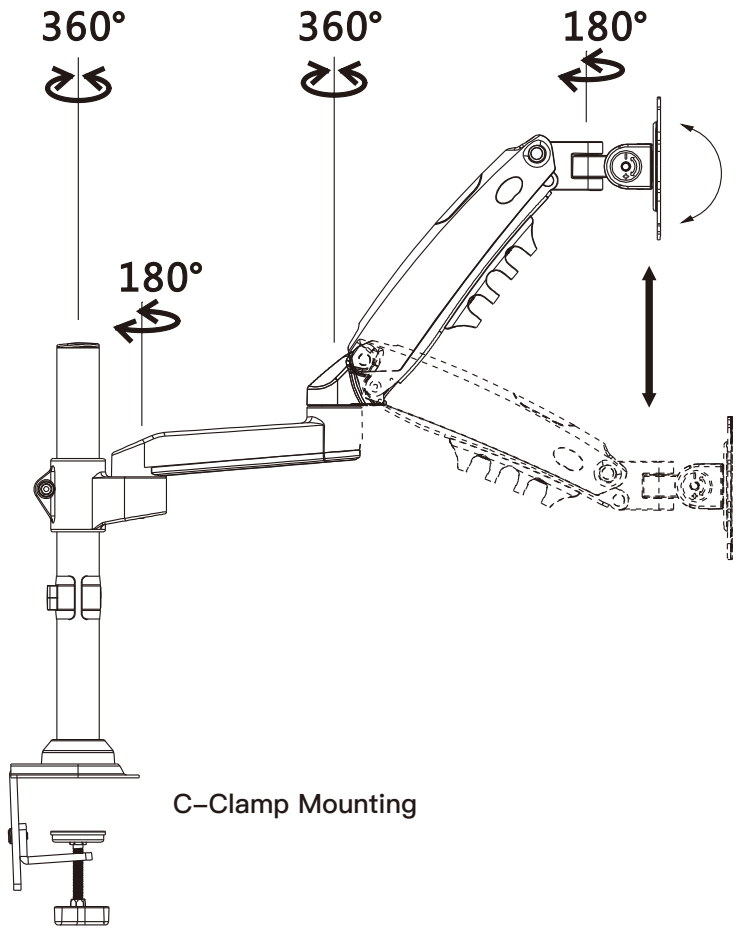
75 mm ≈ 3 in.
100 mm ≈ 4 in.

Minimum VESA pattern: 75mm/3 in.(W)x75mm/3 in.(H)

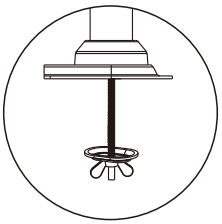
If your Monitor VESA is greater than 100x100 mm/4x4 in. or less than VESA 75x75mm/3x3in., this mount is NOT compatible.

If this desk mount is NOT compatible, please contact customer service at support@huanuoav.com to find a compatible product.

Product Features



C-Clamp Mounting



Grommet Mounting

TENSION ADJUSTMENT SHOULD BE DONE ONLY AFTER MOUNT INSTALLATION

Warning

Do not adjust tension without monitor.

1. Ensure monitor has been attached to the mount.
2. Read your monitor box or manual to find out monitor net weight.
3. Ensure the net weight of monitor (including accessories) is between 4.4~19.8 lbs (2–9 kg).

Adjustment Sign



Clockwise to reduce tension(carry less weight)

Counter–clockwise to increase tension(carry more weight)

Warning!



Tools Needed (Not Included)



Screwdriver

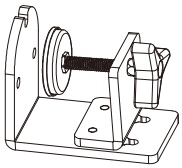
Supplied Parts and Hardware

⚠ **Warning**:This product contains small items that could be a choking hazard if swallowed.

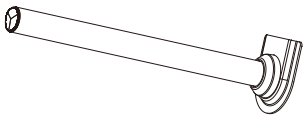
Before starting assembly, verify all parts are included and undamaged. Do not use damaged or defective parts. If you require replacement parts, contact our customer service at support@huanuoav.com .

• Please note: Not all hardware included in this package will be used.

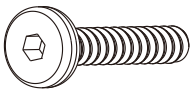
Supplied Parts and Hardware for Step 1



02 C-Clamp X1



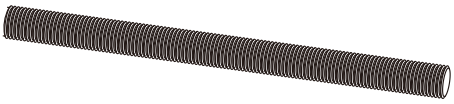
03 Pole Assembly X1



Bolt(C)
M6x12mm (3pcs)



(D) M8
Butterfly Nut



(D) M8x120mm
Grommet Bolt

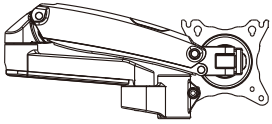


(E)
Locking Plate



(F)
5/32 in.(4mm)
Allen Key

Supplied Parts and Hardware for Step 2



01 Arm X1

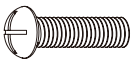


05 Cable Clip X1

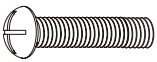


(F)
5/32 in.(4mm)
Allen Key

Supplied Parts and Hardware for Step 3



Bolt (A)
M4x12mm (4pcs)



Bolt (B–1)
M4x16mm (4pcs)



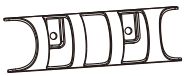
Spacer (B–2)
5mm (4pcs)

Supplied Parts and Hardware for Step 4 and Step 6



(F)
13/64 in.(5mm)
Allen Key

Supplied Parts and Hardware for Step 8



04 Cable Cover X1



Bolt (G)
M4x6mm (2pcs)

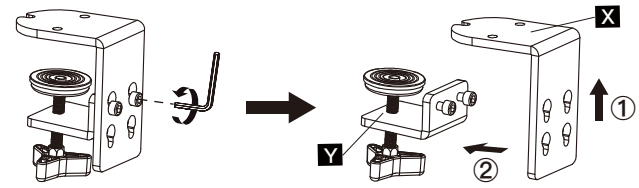
Step 1 Install the Base

A. For Clamp Mounting

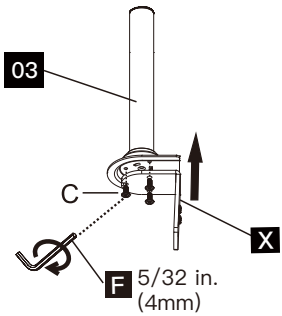
A–1 Install the C–Clamp

Warning:
Ensure bolts are secured firmly.

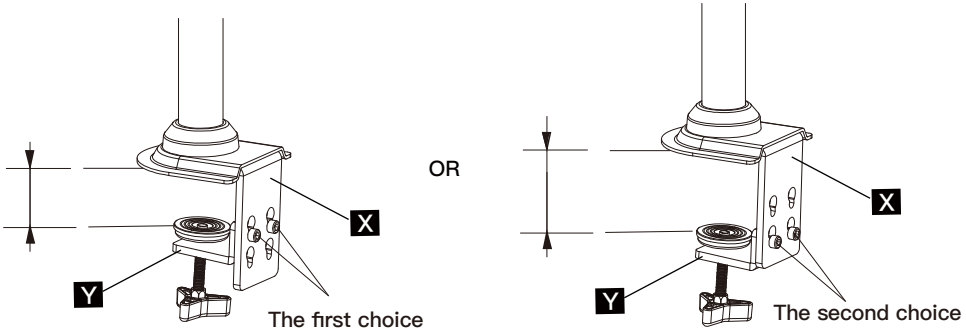
① Detach the c–clamp entirely



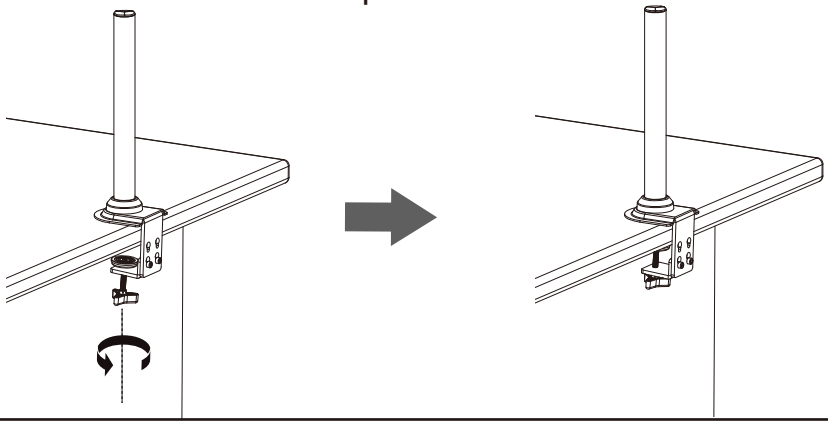
② Connect part [X] to pole assembly [03]



③ Connect part [Y] to part [X] according to the thickness of the desktop

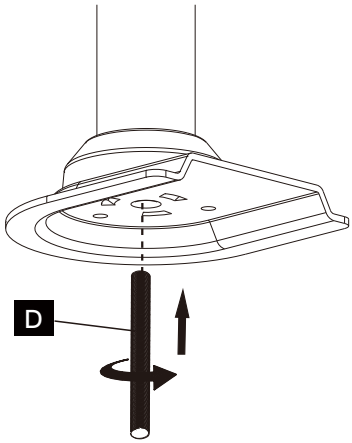


④ Secure the base to the desktop



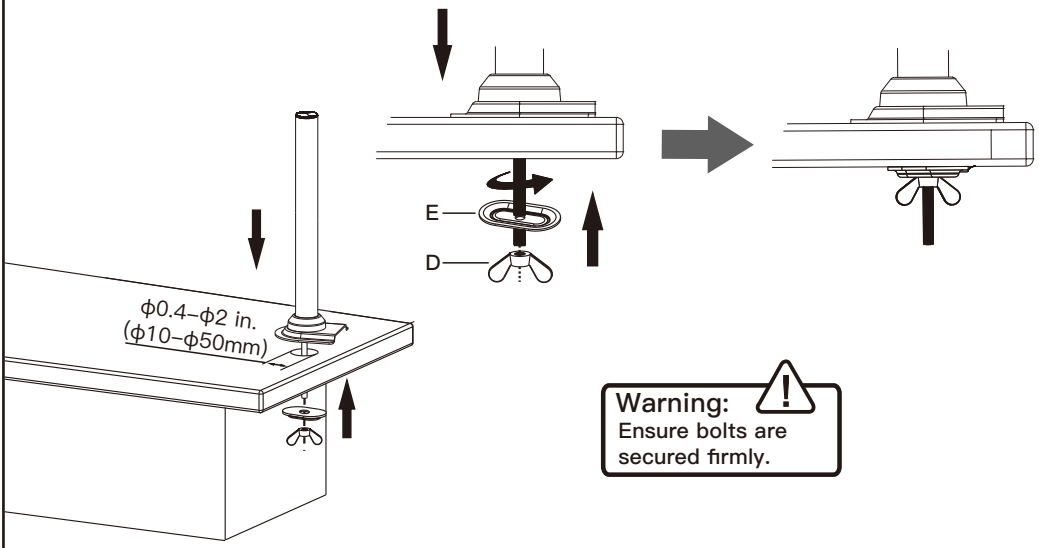
B. For Grommet Mounting

① Install the grommet bolt



Warning:
Ensure bolts are secured firmly.

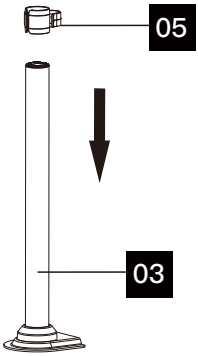
② Secure the base to desktop using locking plate [E] and butterfly nut [D]



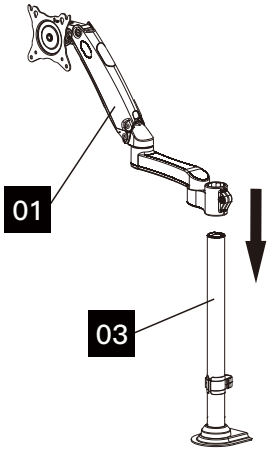
Warning:
Ensure bolts are secured firmly.

Step 2 Install the Arms

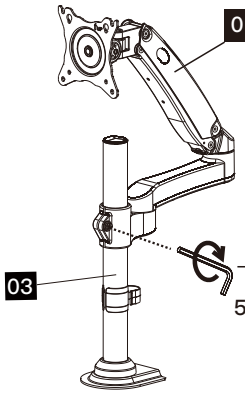
1. Slide the cable clip [05] to the pole assembly [03]



2. Slide arm [01] to the pole assembly [03]



3. Secure the arm [01] to the pole assembly [03] by tightening the preassembled bolts on the arm [01]

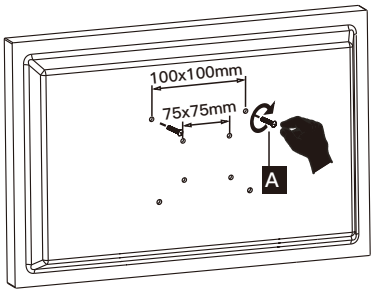


Warning:
Ensure bolts are secured firmly.

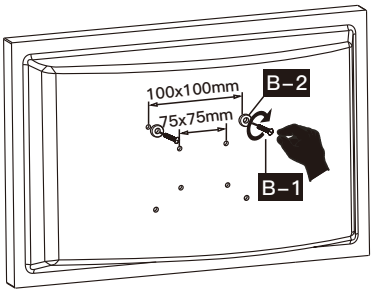
Step 3 Attach Monitor to the Arm

3–1 Choose Proper bolts

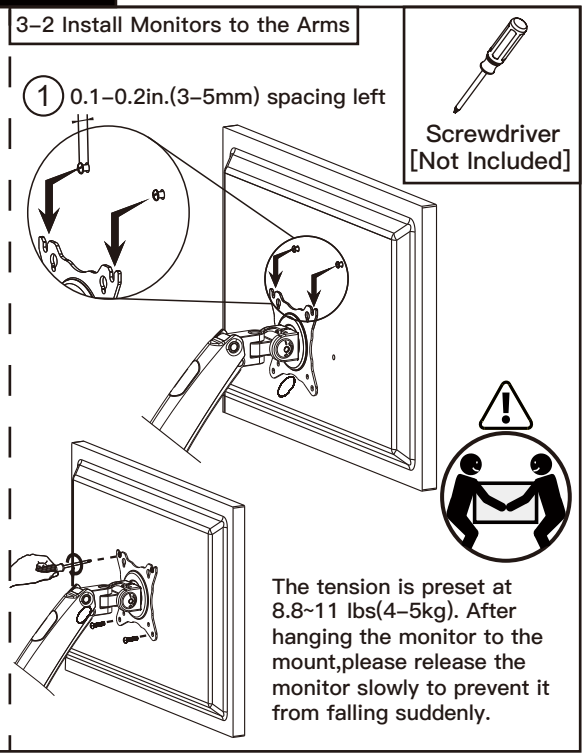
Flat back monitor



Round back monitor

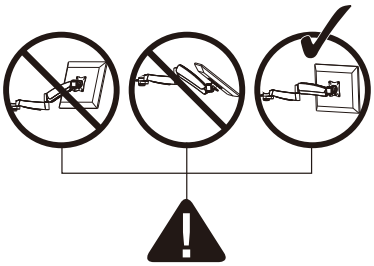


3–2 Install Monitors to the Arms



The tension is preset at 8.8~11 lbs(4–5kg). After hanging the monitor to the mount,please release the monitor slowly to prevent it from falling suddenly.

Step 4 Adjust Gas Spring Tension

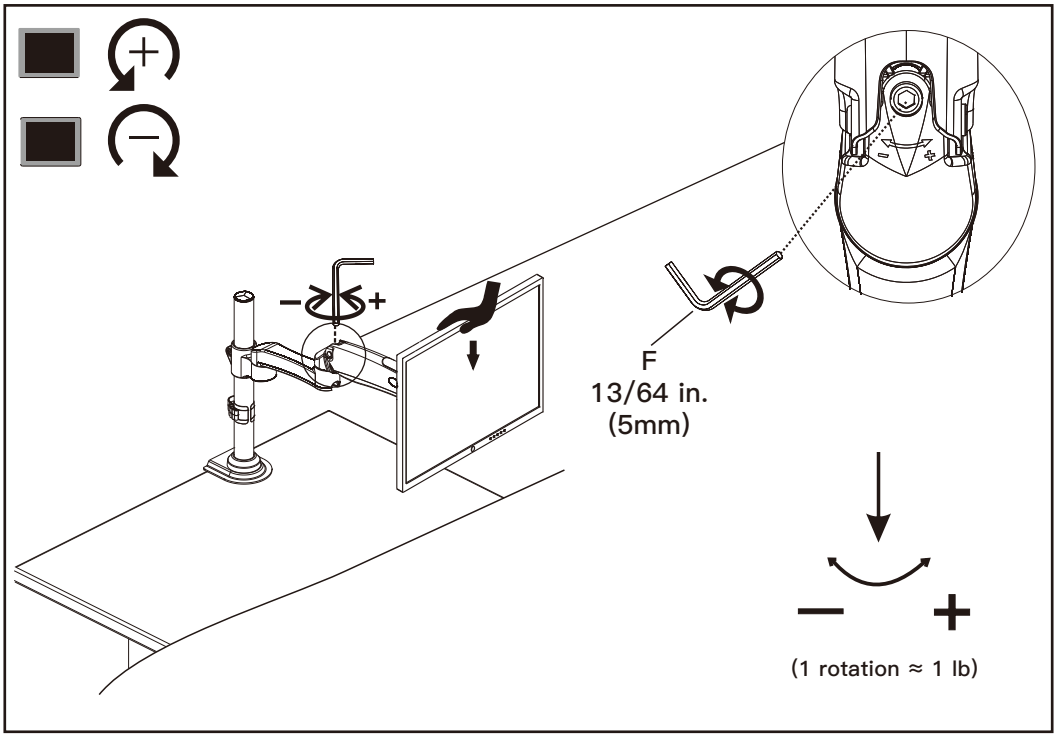


Be sure to keep the arm in horizontal position during adjustment. Or else, it will be difficult to adjust the mount or possibly damage the mount.

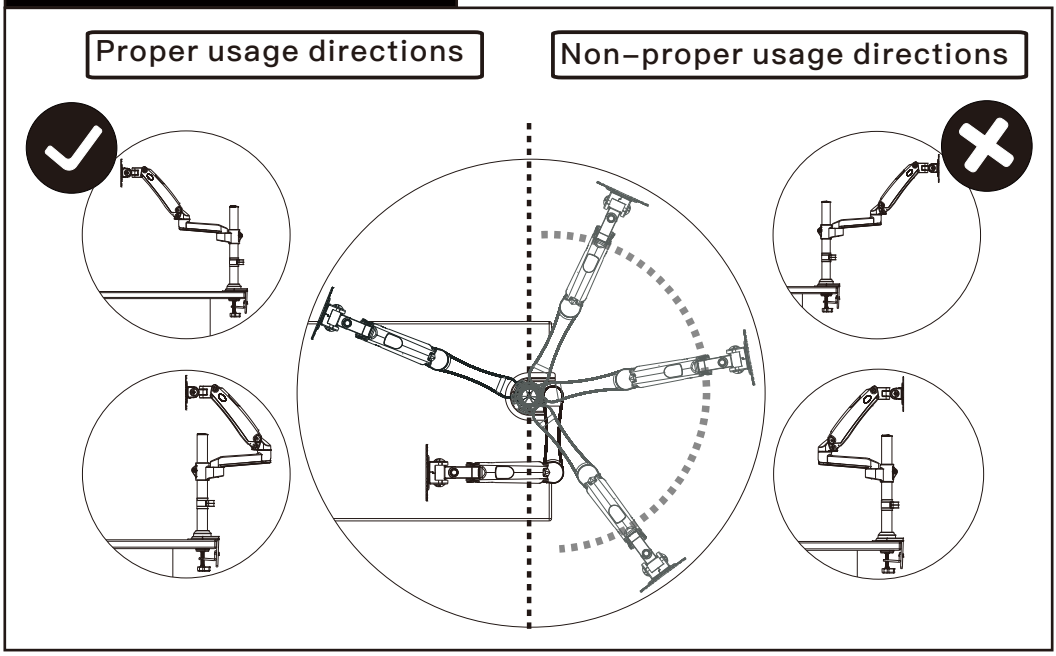
1. If the monitor can stay at the desired height by itself, no adjustment needed.

2. If the monitor rises up, press the arm to keepit in horizontal position and then use the 13/64 in.(5mm) Alley key (F) to turn the bolts clockwise("–" direction) to reduce tension of the arm only until the monitor can stay at the desired height by itself.

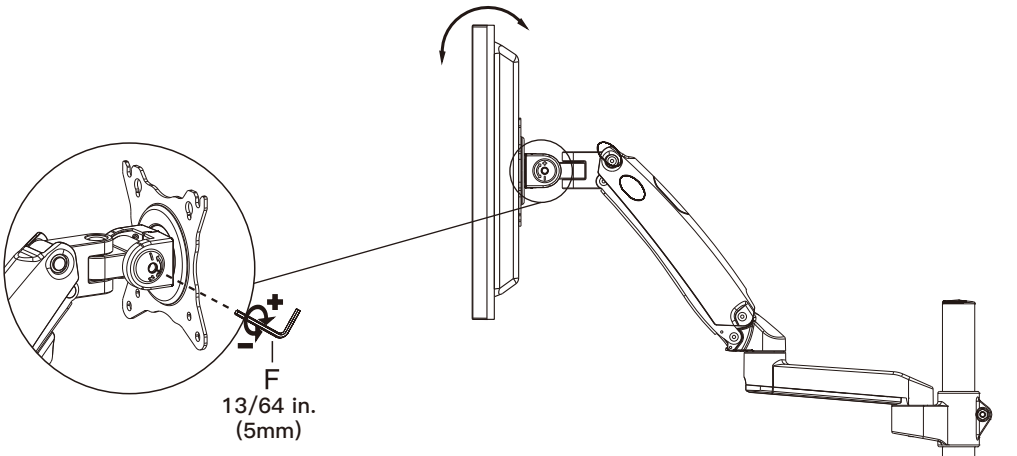
3. If the monitor falls down, lift the arm to keep it in horizontal position and then use the 13/64 in.(5mm) Alley key (F) to turn the bolts counter–clock–wise("+" direction) to increase tension of the arm only until the monitor can stay at the desired height by itself.



Step 5 Rotation Restriction



Step 6 Tilt Adjustment

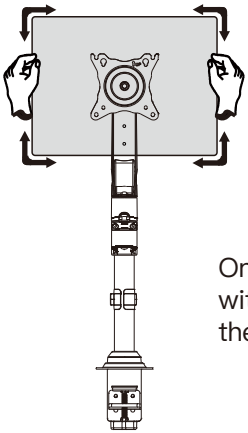


“+” Clockwise: Tighten
“–” Counter–clockwise: Loosen

Situation 1: If the monitor can stay at the desired tilt angle by itself, no adjustment needed.

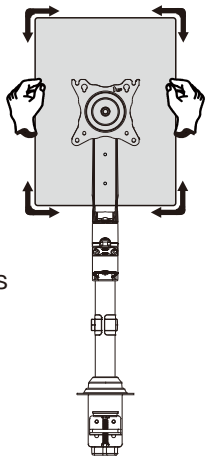
Situation 2: If the monitor can not stay at the desired tilt angle by itself, turn the bolts clockwise or counter–clockwise as shown until the monitor can stay at the desired tilt angle by itself.

Step 7 Rotation Adjustment



360°
Rotation

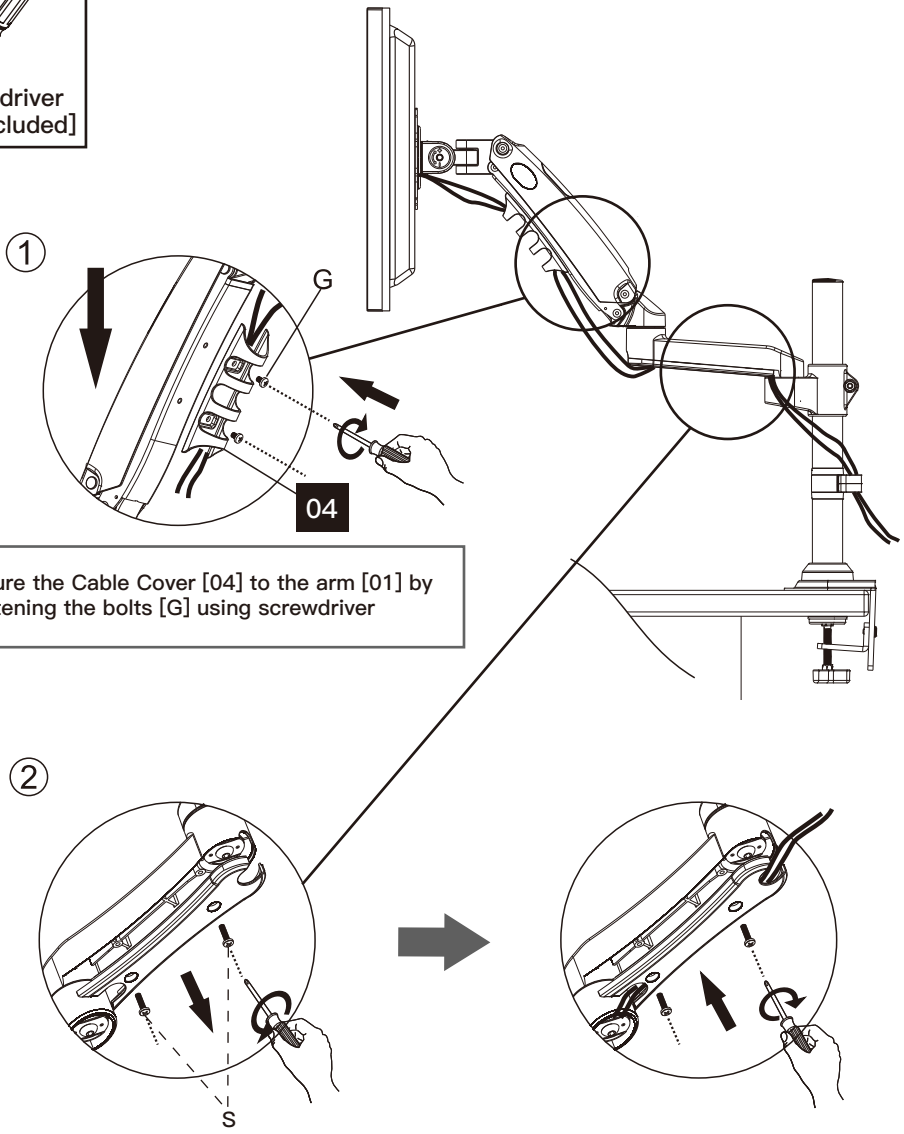
Only suitable for the monitors with the center of gravity in the center position



Step 8 Route Cables along the Arm



Screwdriver
[Not Included]

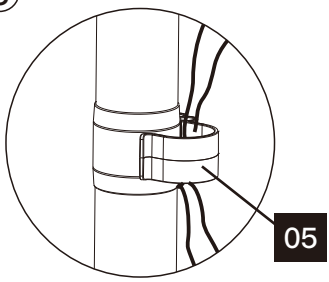


Secure the Cable Cover [04] to the arm [01] by tightening the bolts [G] using screwdriver

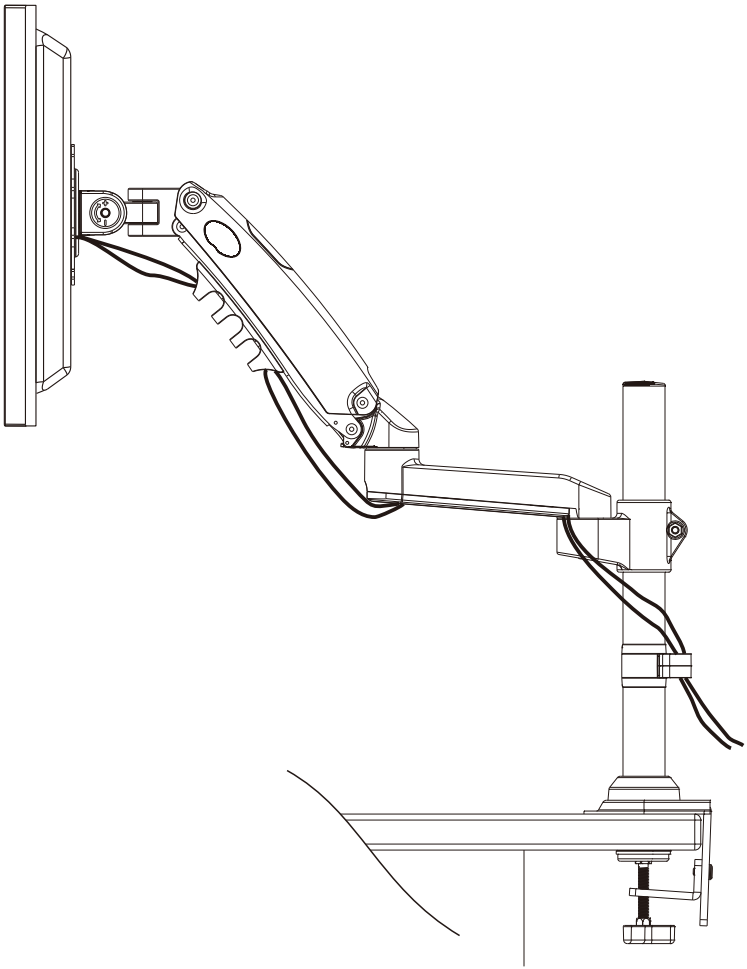
Loosen the preassembled bolts [S] on the arm [01] to detach the cable guide from the arm [01], and keep the bolt for the use in next step

Route the cables into the cable guide and secure the cable guide by tightening the bolts [S] using screwdriver

③



Put the cables into the cable clip [05]



Room
221
Custodial

FIAT PRODUCTS

221.01

STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

TERRAZZO
12" MOP SERVICE BASIN

- One piece, precast terrazzo made of black and white marble chips in gray portland cement to produce a compressive strength not less than 3000 P.S.I. seven days after casting.
- Terrazzo surface shall be ground and polished with all air holes or pits grouted and excess removed.
- Shoulders shall be not less than 12" high outside and 10" inside at lowest wall.
- Shoulder width not less than 2” on all sides with a 1/4" pitch towards the inside.
- Standard drain body is stainless steel cast integrally and provides for a caulked lead connection not less than 1" deep to a 3" pipe.
- Stainless steel strainer # 1453BB
- Made in the U.S.A.

Options:

- QDC quick drain connectors
- Stainless steel tiling flanges available with up-charge. Must be custom order.
- Vandal proof drain. Must be custom order.

❑ **TSB100, TSB300, TSB500, TSB700 Series** with stainless steel caps on all curbs

❑ **TSB200, TSB400, TSB600, TSB800 Series** with plain curbs

Optional Components:

❑ **830AA** Mop Service Basin Fitting

❑ **832AA** Hose & Hose Bracket

❑ **1239BB** Aluminum Bumperguard with Vinyl Insert

❑ **833AA** Silicone Sealant

❑ **MSG** Wall Guards - Stainless Steel

❑ **FITF-24** Field Installable Tiling Flange, 24"

❑ **FITF-36** Field Installable Tiling Flange, 36"

❑ **889CC** Mop Hanger

❑ **889CCSHELF** Stainless Steel Shelf:
- Stainless steel rod, 3 large open hooks, three spring loaded rubber grips to hold mop handles



Shown: TSB500

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

INSTALLATIONS: Terrazzo Mop Basins **must** be installed on a 1/2" layer of mortar in order that the mop basin be level and to prevent cracking. Failure to install terrazzo without a mortar bed will void the warranty. Installations require a 1⁄4" clearance between mop basin and wall.

IMPORTANT: Rough-in dimensions may vary 1/2" (13mm) and are subject to change or cancellation without prior notice.

CERTIFICATIONS:
Meets requirements CSA B45.8-18 / IAPMO Z403-2018.
All models are CUPC listed

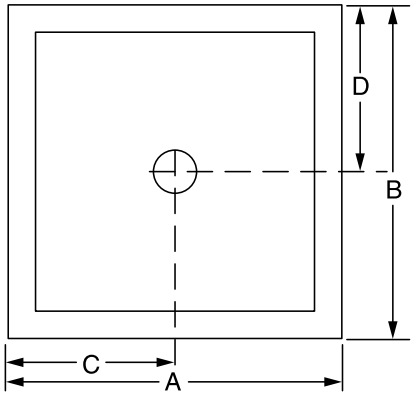
FIAT PRODUCTS

CUSTOMER SERVICE
833-549-2887
www.fiatproducts.com

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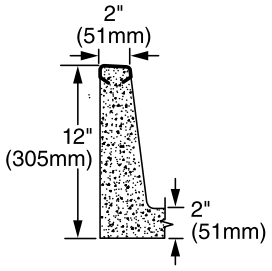
FIAT PRODUCTS

STOCKTON TERRAZZO MOP SERVICE BASIN 12" DEPTH CONTINUOUS

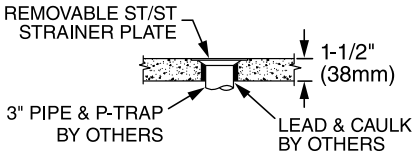


Series TSB100
With Stainless Steel Caps On All Curbs

MODEL	SIZE	A	B	C	D
TSB100	24" x 24" x 12"	24	24	12	12
TSB300	32" x 32" x 12"	32	32	16	16
TSB500	36" x 36" x 12"	36	36	18	18
TSB700	36" x 24" x 12"	36	24	18	12



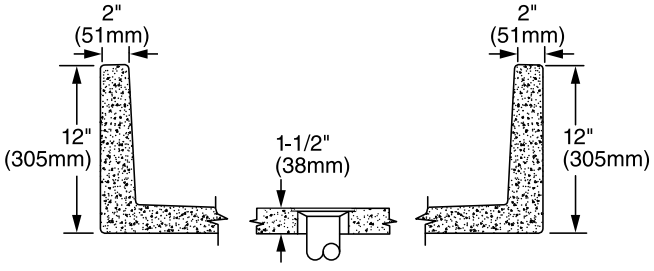
ST/ST CAP DETAIL



SECTION THRU DRAIN

Series TSB200
With Plain Curbs

MODEL	SIZE	A	B	C	D
TSB200	24" x 24" x 12"	24	24	12	12
TSB400	32" x 32" x 12"	32	32	16	16
TSB600	36" x 36" x 12"	36	36	18	18
TSB800	36" x 24" x 12"	36	24	18	12



SECTION THRU THRESHOLD | SECTION THRU DRAIN (LEAD CAULK & 3" PIPE "P" TRAP BY OTHERS) | SECTION THRU SIDES

IMPORTANT: Roughing in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

FIAT PRODUCTS

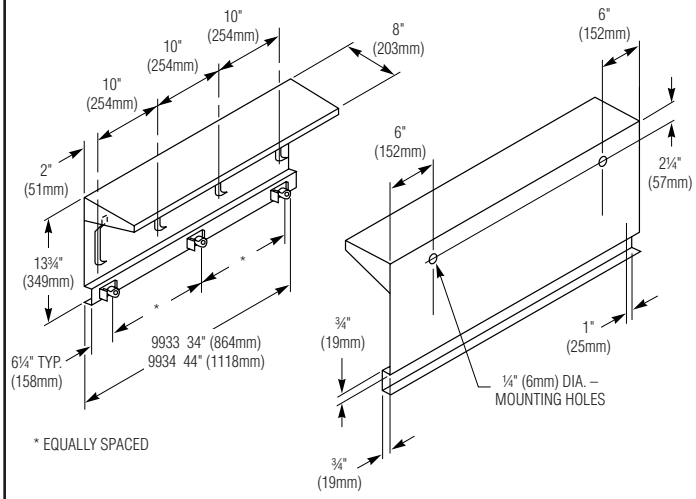
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www.fiatproducts.com

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9933, 9934
Utility Shelf

- ☑ Model 9933 – 4 Hooks/3 Holders **Bradex**®
- ☑ Model 9934 – 5 Hooks/4 Holders





Product Materials

SHELF AND BRACKET: 18 gauge stainless steel with exposed surfaces in architectural satin finish.

HOOKS: 14 gauge stainless steel

HOLDERS: spring-activated rubber cams on plated steel retainers. Will hold a mop or broom handle with a diameter between 5/8" and 1".

Operation

Weight of mop or broom holds handle in place.

Installation

Verify all rough-in dimensions prior to installation. Secure to wall with mounting screws (included) at holes provided.

Guide Specification

Surface mounted utility shelf shall be fabricated of 18 gauge stainless steel in satin finish. Hooks shall be of 14 gauge stainless steel. Holders shall be with spring-activated rubber cams.

Orders composed of products indicated as **Bradex**® will be available to ship in three days after receipt of order at the factory. There is no pricing penalty for this service from Bradley.

This information is subject to change without notice.

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800 BRADLEY (800 272 3539) +1 262 251 6000
bradleycorp.com



Enlarge & Video

BOLTLESS SHELVING

Light-duty storage for breakrooms, stockrooms and small closets.

- Quick, easy assembly with mallet. Shelves snap into place and adjust at 1 1/2" increments.
- 14-gauge powder-coated steel with 5/8" particle board.
- Open design provides easy access on all four sides.



60" HEIGHT BOLTLESS SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART		ADDITIONAL SHELVES: MODEL NO.	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART	
H-9913	36 x 12 x 60"	5	400	68	$155	$145	1	ADD	H-5520-ADD	12	$25	$22	1	ADD
H-9914	36 x 18 x 60"			94	170	160	1	ADD	H-5186-ADD	17	27	25	1	ADD
■ H-9915	36 x 24 x 60"			109	185	175	1	ADD	H-5187-ADD	19	30	27	1	ADD
H-9916	48 x 12 x 60"	5	300	86	185	175	1	ADD	H-5521-ADD	15	30	27	1	ADD
■ H-9917	48 x 18 x 60"			115	195	185	1	ADD	H-5188-ADD	22	34	31	1	ADD
■ H-9918	48 x 24 x 60"			140	225	215	1	ADD	H-5189-ADD	27	39	37	1	ADD

■ SHIPS UNASSEMBLED VIA MOTOR FREIGHT

72" HEIGHT BOLTLESS SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART		ADDITIONAL SHELVES: MODEL NO.	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART	
H-7114	36 x 12 x 72"	5	400	70	$165	$155	1	ADD	H-5520-ADD	12	$25	$22	1	ADD
H-7115	36 x 18 x 72"			96	180	170	1	ADD	H-5186-ADD	17	27	25	1	ADD
■ H-7116	36 x 24 x 72"			111	195	185	1	ADD	H-5187-ADD	19	30	27	1	ADD
H-7117	48 x 12 x 72"			88	195	185	1	ADD	H-5521-ADD	15	30	27	1	ADD
■ H-7118	48 x 18 x 72"	5	300	117	205	195	1	ADD	H-5188-ADD	22	34	31	1	ADD
■ H-7119	48 x 24 x 72"			142	235	225	1	ADD	H-5189-ADD	27	39	37	1	ADD

■ SHIPS UNASSEMBLED VIA MOTOR FREIGHT

84" HEIGHT BOLTLESS SHELVING

MODEL NO.	DIMENSIONS W x D x H	NO. OF SHELVES	SHELF CAP. (LBS.)	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART		ADDITIONAL SHELVES: MODEL NO.	WT. (LBS.)	PRICE EACH 1	PRICE EACH 3+	ADD TO CART	

H-5520	36 x 12 x 84"	5	400	73	$175	$165	1	ADD	H-5520-ADD	12	$25	$22	1	ADD
H-5186	36 x 18 x 84"			99	190	180	1	ADD	H-5186-ADD	17	27	25	1	ADD
■ H-5187	36 x 24 x 84"			114	205	195	1	ADD	H-5187-ADD	19	30	27	1	ADD
H-5521	48 x 12 x 84"	5	300	91	205	195	1	ADD	H-5521-ADD	15	30	27	1	ADD
■ H-5188	48 x 18 x 84"			120	215	205	1	ADD	H-5188-ADD	22	34	31	1	ADD
■ H-5189	48 x 24 x 84"			145	245	235	1	ADD	H-5189-ADD	27	39	37	1	ADD

■ SHIPS UNASSEMBLED VIA MOTOR FREIGHT

SOUTH DIVISION FIREHOUSE – WORCESTER, MA
CODE COMPLIANCE APPROACH REPORT – DRAFT

Construction Documents Phase

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Advancing the Science of Safety

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1.0 Introduction

This report presents the building code (pertaining to fire protection and life safety) compliance approach for the proposed construction of a new Fire House facility located in Worcester, Massachusetts. The project involves the construction of a new two (2) story facility for the South Division of the Worcester Fire Department that spans approximately 19,100 SF in area and two (2) stories above grade. The building will primarily contain residential bunk units and associated amenity space, an apparatus bay and associated support spaces, a watch room, a kitchen and dining area, a training room, an exercise room, and miscellaneous storage / MEP space. The building is also abutted by a training tower, which is not atmospherically connected to the rest of the building.

This report is intended to serve as a reference for the design team and code enforcement officials to understand the major building code implications presented by the scope of work. Specific trades such as structural, plumbing, electrical, mechanical, etc. and matters pertaining to accessibility, energy conservation, flood hazard, and zoning code compliance are not intended to be addressed by this narrative in detail. Throughout the report, code reference sections are provided in parenthesis to facilitate review of the provisions in detail.

2.0 Applicable Codes

The Commonwealth of Massachusetts currently adopts the following codes applicable to the fire protection and life safety scopes of work below.

+ Accessibility – Massachusetts Architectural Access Board Regulations (521 CMR), and the Americans with Disabilities Act (ADA) 2010 Standards for Accessible Design.
+ Building – Massachusetts State Building Code (780 CMR) 10th Edition (amended version of the 2021 International Building Code (IBC)).
+ Electrical – Massachusetts Electrical Code, 527 CMR 12.00 (amended version of the 2023 National Electrical Code (NFPA 70)).[1]
+ Elevators – Massachusetts Elevator Regulations, 524 CMR (amended version of the 2013 Edition of ASME A17.1, Safety Code for Elevators and Escalators).[2]
+ Fire Prevention – Massachusetts Comprehensive Fire Safety Code, 527 CMR 1.00 (based on the 2021 Edition of NFPA 1, Fire Code).
+ Mechanical – 2021 International Mechanical Code (IMC), as adopted and amended by 780 CMR.
+ Plumbing – Massachusetts Fuel Gas and Plumbing Codes, 248 CMR.
+ Energy – 225 CMR 23.00, Massachusetts Stretch Energy Code, which adopts and amends the 2021 International Energy Conservation Code (IECC). This includes the Opt-In Specialized Stretch Energy Code.
+ Other – Selected National Fire Protection Association (NFPA) Standards as referenced by 780 CMR and 527 CMR, including but not limited to:
  - NFPA 10, 2021 Edition, Standard for Portable Fire Extinguishers
  - NFPA 13, 2019 Edition, Standard for the Installation of Sprinkler Systems
  - NFPA 72, 2019 Edition, National Fire Alarm Code

This report focuses on the key issues related to compliance with the major fire protection and life safety provisions of the applicable codes. Other provisions of the applicable codes are noted only where pertinent to matters related to fire / life safety.

[1] The effective Electrical Code is subject to change as it is based on the date of the issuance of the electrical installation permit.
[2] The applicable elevator code is based on the applicable edition at the time of the elevator permit.

3.0 Use and Occupancy

The proposed uses in the building include those shown in the table below.

Table 1 – Occupancy Classification

Occupancy Classification	Uses
Group A-2	Cafeteria space >735 SF/49 people
Group B	Offices, Conference and multipurpose spaces ≤735 SF/49 people
Group R-2	Residential Sleeping Units
Group S-2	Apparatus Bay, Storage / MEP spaces
Group U	Training tower

3.1 SEPARATION OF USES

The building will be configured with non-separated occupancies according to 780 CMR §508.3. The occupancy of each portion of the building is individually classified according to its use. The required type of construction (see next section) is determined based on the most restrictive height and area allowances for the occupancy groups involved. All other code provisions apply to each portion of the building based on its occupancy classification except that the most restrictive applicable provisions of 780 CMR Chapter 9 apply to the building (or portion thereof) in which the nonseparated occupancies are located.

With the exception of required sleeping unit separations, fire-resistance rated separations are not required between occupancies (780 CMR §508.3.3). Group R-2 occupancies must be separated from other occupancies in accordance with 780 CMR §420 (780 CMR §420.2, §420.3).

4.0 Building Height, Area, & Construction Classification

The construction type of a building is regulated by 780 CMR based upon its occupancy classification, building height, and area with consideration given to the buildings open exterior perimeter and automatic fire suppression systems (780 CMR §503, §504, §506). Based on the proposed height and area of the building and use of both combustible and noncombustible materials, the minimum and proposed construction type for the building is identified as Type VB construction. New structural members must comply with the fire-resistance rating requirements for Type VB as outlined in the table below (780 CMR §601).

Table 2 – Structure Fire Resistance Rating

Building Element		Hours
Primary Structural Frame		0
Bearing Walls	Exterior	0
	Interior	0
Interior Non-Bearing Walls & Partitions		0
Floor Construction and Secondary Members		0
Roof Construction and Secondary Members		0

The following table outlines the allowable height and area for a multi-story, fully sprinklered, building of Type VB construction for the proposed occupancies:

Table 3 – Height & Area Limitations for Type VB Construction[1]

Occupancy	Group A-2	Group B	Group R-2	Group S-2	Group U
Height (Feet)	60	60	60	60	60
Height (Stories)	2	3	3	3	2
Area per Story sq. ft[2]	22,500	33,750	26,250	50,625	20,625

Note 1: The proposed building height and area should be monitored as the design progresses to ensure compliance is maintained with allowable building height and area limitations.
Note 2: Allowable area limitation takes into account a full increase due to frontage per 780 CMR §506.3.

Aggregate accessory occupancies must not occupy more than 10 percent of the floor area of the story in which they are located and must not exceed the tabular values for non-sprinklered buildings in 780 CMR Table 506.2 for each such accessory occupancy (780 CMR §508.2.3). When the occupancy is defined as accessory, then the requirements for the main building occupancy apply.

5.0 Fire-Resistance Rated Enclosures and Separations

The following is an overview of relevant fire-resistance rated building separations for new construction.

Table 4 – Fire-Resistance Rated Separations

Room/Space or Occupancy	Code Reference	Enclosure Required[1]
Shafts (including elevator hoistways), exit enclosures, and exit passageways	780 CMR §712.1.1, §713.4, §3002.1	1-hour FB
Non-sprinklered electrical rooms	NFPA 13 §8.15.10.3	2-hour FB
Emergency power feeder-circuit wiring	527 CMR 12.00: 700.10 D	2-hour FB
Furnace room where any piece of equipment is over 400,000 BTU/hour input	780 CMR Table 509	SR
Refrigerant machinery rooms	780 CMR Table 509	SR
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower	780 CMR Table 509	SR
Laundry rooms > 100 SF	780 CMR Table 509	SR
Waste and linen collection rooms > 100 SF	780 CMR Table 509	SR
Corridors in Group R-2 (not including corridors within residential units)	780 CMR Table 1020.2	½-hour FP
Sleeping unit separations	780 CMR §420.2	½-hour FP
Horizontal sleeping unit separations	780 CMR §420.3	½-hour HA
Enclosed rooms underneath stairways	780 CMR §1011.7.3	1-hour FB
Elevator machine rooms, control rooms, control spaces, and machinery rooms	780 CMR §3005.4	1-hour FB
Electrical room containing a Transformer or Transformer Vault:		
• Transformer < 112 ½ kV	NFPA 70 §450.21	Non-combustible
• Transformer > 112 ½ kV	NFPA 70 §450.21	1-hour FB
• Transformer > 35,000 Volts	NFPA 70 §450.42	3-hour FB

Note 1: FB = Fire Barriers FP = Fire Partitions SR = Smoke Resistant HA = Horizontal Assembly

The supporting construction for a fire barrier must be protected to afford the same fire-resistance rating of the fire barrier (780 CMR §707.5.1).

Walls separating sleeping units in the same building, and walls separating sleeping units from other occupancies contiguous to them in the same building must be constructed as fire partitions in accordance with 780 CMR §708 (780 CMR §420.2).

The fire partitions constructed for separation of sleeping units must provide a minimum fire-resistance rating of 1 hour except corridor partitions are permitted to be reduced to a 1/2-hour fire-resistance rating. Sleeping unit separations in buildings of Type VB construction are permitted to have a minimum fire-resistance rating of 1/2-hour in buildings equipped throughout with an automatic sprinkler system in accordance with 780 CMR §903.3.1.1 (780 CMR §708.3).

Floor assemblies separating sleeping units in the same building and floor assemblies separating sleeping units from other occupancies contiguous to them in the same building must be constructed as horizontal assemblies in accordance with 780 CMR §711 (780 CMR §420.3). Horizontal assemblies serving as sleeping unit separations must be not less than 1-hour fire-resistance-rated construction. However, in buildings of Type VB construction where the building is equipped throughout with an automatic sprinkler system, horizontal assemblies separating sleeping units must be not less than 1/2-hour fire-resistance-rated construction (780 CMR §711.2.4.3).

In buildings of VB construction, the construction supporting the horizontal assembly is not required to be fire-resistance rated at horizontal assemblies at the separations of incidental uses as specified by 780 CMR Table 509.1 (provided that the required fire-resistance rating does not exceed 1 hour) or at horizontal assemblies at the separations of sleeping units as required by 780 CMR §420.3.

6.0 Vertical Openings

Openings through a floor/ceiling assembly must be protected by a shaft enclosure as required by 780 CMR §712.1.1, unless one of several alternatives (exceptions) are employed according to 780 CMR §712.1.2 through §712.1.16. Shaft enclosures must be constructed as 1-hour fire barriers in accordance with 780 CMR §707 or horizontal assemblies in accordance with 780 CMR §711, or both.

Two-story, unenclosed vertical openings are permitted as follows (780 CMR §712.1.9):

- Does not connect more than two stories;
- Does not penetrate a horizontal assembly that separates fire areas or smoke barriers that separate smoke compartments;
- Is not concealed within the construction of a wall or a floor/ceiling assembly;
- Is not open to a corridor in Group I and Group R occupancies; and
- Is separated from floor openings and air transfer openings serving other floors by construction conforming to required shaft enclosures.

Vertical openings containing unenclosed exit access stairways and ramps are permitted according to 780 CMR §712.1.12 and §1019.3 Exception 1, as follows:

- Exit access stairways and ramps that serve or atmospherically communicate between only two stories. Such interconnected stories must not be open to other stories.

Otherwise, the vertical opening(s) is required to be designed as an atrium or protected by a shaft enclosure.

7.0 Exterior Wall Resistance Ratings and Openings

The required fire-resistance rating of non-load bearing exterior walls is determined based on the building's construction classification and fire separation distance (FSD), which is the distance measured perpendicularly from the face of the building to the closest interior lot line; or to the centerline of a street, an alley or a public way; or to an imaginary line between two buildings on the property.

Where exterior walls are fire-resistance rated as required by 780 CMR Tables 601 and 705.5, exterior walls with a fire separation distance of greater than 10'-0" are permitted to be rated for fire exposure from the inside only. Exterior walls with a

fire separation distance of less than or equal to 10'-0" are required to be rated for fire exposure from both sides (780 CMR §705.5).

780 CMR regulates the extent to which protected and unprotected openings (windows and doors) are permitted in the exterior walls of facing buildings based on the fire separation distance (780 CMR §705.5, §705.8). Because the building will be protected throughout by an automatic sprinkler system, the area of unprotected openings is the same as the area of protected openings. The table below lists the permissible percentage of openings. The percentage of openings are shown as a percentage of the total area of the exterior wall, evaluated per story.

Table 5 – Exterior Wall Fire Ratings and Opening Limitations

Occupancy	Fire Separation Distance (feet)							
	0 to <3	3 to <5	5 to <10	10 to <15	15 to <20	20 to <25	25 to <30	≥30
Fire Ratings (Group A, B, R-2, S-2, U)	1 hour	1 hour	1 hour	0 hour	0 hour	0 hour	0 hour	0 hour
Max Area of Protected Openings	Not Permitted	15%	25%	45%[1]	75%[1]	Unlimited	Unlimited	Unlimited

Note 1: Buildings whose exterior bearing walls, exterior non-bearing walls and exterior primary structural frame are not required to be fire-resistance rated are permitted to have unlimited unprotected openings (780 CMR 705.8.1 Exception 2).

8.0 Interior Finish

8.1 INTERIOR WALL AND CEILING FINISH

Interior wall and ceiling finishes must comply with 780 CMR §803 (780 CMR §802.1).

The interior wall and ceiling finishes for the building are classified in accordance with ASTM E84 or UL 723 as shown in Table 6 (classifications per ASTM E84) based on the occupancy classification and a fully sprinklered building (780 CMR Table §803.13).

Requirements for rooms and enclosed spaces are based on spaces being enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions must extend from the floor to the ceiling. Partitions that do not comply are considered as enclosing the rooms and spaces on both sides, which are to be considered as one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof is the governing factor regardless of the group classification of the building or structure (780 CMR §803.13, Table 803.13).

The interior wall and ceiling finish requirements for the building are determined by the occupancy use classification of the spaces. The classification requirements for interior wall and ceiling finish, when tested in accordance with ASTM E84 or UL 723 are as follows (780 CMR §803.1.2):

Table 6 – Interior Finish Classifications

Interior Finish Classification	Flame Spread Index	Smoke Developed Index
Class A	0 – 25	0 – 450
Class B	26 – 75	0 – 450
Class C	76 – 200	0 – 450

The following table summarizes the interior finish requirements applicable to this project (780 CMR Table 803.13).

Table 7 – Interior Finish Requirements for Fully Sprinklered Building

Group	Exit Enclosures and Exit Passageways	Corridors	Rooms and Enclosed Spaces
Group A, Assembly	Class A or B	Class A or B	Class A, B or C
Group B, Business	Class A or B	Class A, B or C	Class A, B or C
Group R-2, Residential	Class A, B or C	Class A, B or C	Class A, B or C
Group S-2, Storage	Class A, B or C	Class A, B or C	Class A, B or C
Group U	No restrictions	No restrictions	No restrictions

8.2 INTERIOR FLOOR FINISH

Interior floor finishes must comply with 780 CMR §804 (780 CMR §802.2).

New traditional floor coverings such as wood, vinyl, terrazzo, and other resilient floor coverings (not comprised of fibers) are allowed throughout the building and are exempt from the requirements of 780 CMR §804 (780 CMR §804.1, Exception).

Interior floor finish and floor covering materials in exit enclosures, exit passageways, corridors and rooms or spaces not separated from corridors by partitions extending from the floor to the underside of the ceiling must comply with the DOC FF-1 "pill test" (CPSC 16 CFR, Part 1630) or with ASTM D2859 (780 CMR §804.4.2, Exception).

8.3 DECORATIVE MATERIALS AND TRIM

Decorative materials and trim must comply with 780 CMR §806 (780 CMR §801.4).

(*NOTE: Fixed or movable walls and partitions, paneling, wall pads and crash pads applied structurally or for decoration, acoustical correction, surface insulation or other purposes must be considered interior finish and cannot be considered decorative materials or furnishings.*)

The permissible amount of noncombustible decorative materials and trim is not limited (780 CMR §806.2).

Curtains, draperies, fabric hangings and similar combustible decorative materials suspended from walls or ceilings must meet the criteria of 780 CMR §806.4 and 527 CMR §12.6.2 when tested in accordance with NFPA 701 and must not exceed 10 percent of the specific wall or ceiling area to which such materials are attached (780 CMR §806.3; 527 CMR §12.6.2).

Foam plastics, whether exposed or used in conjunction with a textile or vinyl facing or cover, must not be used as interior trim except as provided in 780 CMR §806.5 or §2604.2 (780 CMR §802.7, §806.5).

Material used as interior trim, other than foam plastic, must have a minimum Class C flame spread and smoke-developed rating index when tested in accordance with ASTM E84 or UL 723 as described in 780 CMR §803.1.1 (780 CMR §806.7). Combustible trim, excluding handrails and guardrails, must not exceed 10 percent of the specific wall or ceiling area in which it is attached (780 CMR §806.7).

(*NOTE: Alternatively, interior floor-wall base that is 6 inches or less in height is be permitted to be Class II material tested in accordance with NFPA 253 (ASTM E648) (780 CMR §806.8).*)

9.0 Means of Egress

Means of egress are required to comply with 780 CMR Chapter 10. The following sections outline the major requirements. It should be recognized that where multiple occupancies share the same portions of a means of egress system, those egress components must meet the more stringent requirements of all the occupancies served.

9.1 OCCUPANT LOAD

In the absence of fixed seating, the occupant load for each floor is determined using the greater of the following:

- Occupant load calculations using factors prescribed by 780 CMR Table 1004.5,

- The actual number of occupants who will use each space or floor.

Where approved by the Building Official, the actual number of occupants for whom each occupied space, floor or building is designed, although less than those determined by calculation, is permitted to be used in the determination of the design occupant load (i.e. posted occupant load) (780 CMR §1004.5 Exception).

The occupant load factors for anticipated uses in the building are listed in the following table (780 CMR Table 1004.5):

Table 8 – Occupant Load Densities

Function of Space	Occupant Load Factor (ft^2 per occupant)
Assembly without fixed seating (Tables and Chairs)	15 net
Educational (Classrooms)	20 net
Locker Rooms	50 gross
Exercise Rooms	50 gross
Business Use	150 gross
Residential Use	200 gross
Kitchens	200 gross
Parking Garages	200 gross
Storage and MEP Rooms	300 gross

9.2 EGRESS CAPACITY

The required egress capacity for the building and rooms/areas is determined using egress capacity factors and the occupant load being served. The following egress capacity factors are applicable to buildings protected throughout with an automatic sprinkler system and a fire alarm system equipped with emergency voice/alarm communication capabilities (780 CMR §1005.3):

- Level egress elements, including ramps: 0.15 inch per occupant
- Exit stairways: 0.20 inch per occupant

Multiple means of egress must be sized such that the loss of any single means of egress will not reduce the available capacity or width to less than 50% of the required capacity or width (780 CMR §1005.5).

Where the means of egress from stories above and below converge at an intermediate level, the capacity of the means of egress from the point of convergence must be not less than the largest minimum width or the sum of the required capacities for the stairways or ramps serving the two adjacent stories, whichever is larger (780 CMR §1005.6).

9.3 NUMBER OF EXITS

Each space in the building is required to have access to at least two exits or exit access doorways where either the design occupant load exceeds a set maximum value based on occupancy (refer to table below) or the common path of travel limit for that occupancy is exceeded (780 CMR Table 1006.2.1). Where these values are exceeded, at least two exits or exit access doorways are required to serve a space.

Table 9 – Maximum Occupant Load for Single Means of Egress

Occupancy	Maximum Occupant Load
Group A	49
Group B	49
Group R-2	49
Group S-2	29
Group U	49

At least two exit access doorways are also required:

- In boiler, incinerator, and furnace rooms where the area is over 500 square feet and any fuel-fired equipment exceeds 40,000 Btu input capacity. One of the required means of egress is permitted to be a fixed ladder or an alternating tread device (780 CMR §1006.2.2.1).
- In refrigeration machinery rooms larger than 1,000 square feet, one of the required exit access doorways is permitted to be served by a fixed ladder or an alternating tread device (780 CMR §1006.2.2.2).
- Rooms or spaces having a floor area larger than 1,000 square feet, containing a refrigerant evaporator and maintained at a temperature below 68 degrees Fahrenheit (780 CMR §1006.2.2.3).

Each story of the building must have at least two means of egress; if the occupant load of the floor exceeds 500 occupants, refer to table below (780 CMR Table 1006.3.1).

Table 10 – Minimum Number of Exits or Access to Exits

Occupant Load (persons)	Minimum Number of Exits or Access to Exits
1-500	2
501-1,000	3
More than 1,000	4

Where Group A occupancies and Group R-2 occupancies consisting of sleeping units are located on the second story above grade plane or higher, such occupancies are required to have access to no less than two means of egress from the story (780 CMR Table 1006.3.4(2)).

The required exits (i.e. exit or exit access doors) are required to be separated by a distance not less than one-third of the length of the maximum overall diagonal dimension of the building or area to be served (780 CMR §1007.1.1 Exception).

9.4 INTERVENING SPACES

Egress through an intervening space is required to comply with the following conditions (780 CMR §1016.2):

- Egress from a room or space must not pass through adjoining intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy, and provide a discernible path of egress travel to an exit.
- An exit access must not pass through a room that can be locked for egress.
- Means of egress from sleeping units must not lead through other sleeping areas, toilet rooms, or bathrooms.
- Egress must not pass through kitchens, storage rooms, closets or spaces used for similar purposes.

9.5 EXIT ACCESS, COMMON PATH OF TRAVEL, AND DEAD-END CORRIDORS

The maximum allowable exit access travel distance, common path of egress and dead-end corridors are required to comply with the maximum distance limitations summarized in the table below (780 CMR Table 1017.2, Table 1006.2.1 and §1020.5).

Table 11 – Egress Travel Distance, Common Path of Travel, Dead-end Corridor Limits

Occupant Load (persons)	Exit Access Travel Distance[2]	Common Path of Travel	Dead-end Corridor[1]
Group A	250 feet	75 feet	20 feet
Group B	300 feet	100 feet	50 feet
Group R-2	250 feet	125 feet	50 feet
Group S-2	400 feet	100 feet	50 feet
Group U	400 feet	75 feet	50 feet

Note 1: A dead-end corridor can be increased beyond the prescribed values where the length of the dead-end corridor is less than 2.5 times the least width of the dead-end corridor (780 CMR §1020.5, Exception 3).
Note 2: Travel distance on exit access stairways must be included in the exit access travel distance measurements, starting at a remote point and terminating at an exit discharge to the exterior. The measurement along such stairs must be made on a plane parallel and tangent to the stair tread nosings in the center of the stair and landings (780 CMR §1017.3.1).

9.6 EXIT DISCHARGE

Exits are required to discharge directly to the exterior of the building or via an exit passageway either at grade or at a point that will provide direct access to grade. The exit discharge must not reenter the building. Not more than 50% of the number and minimum width or required capacity of interior exit stairways is permitted to egress through areas on the level of discharge provided all the conditions of 780 CMR §1028.1 Exception 1 are met (780 CMR §1028.1).

9.7 CORRIDORS

Corridors in assembly, business, and storage occupancies are permitted to have no fire-resistance rating. In residential occupancies, in buildings equipped throughout with an automatic sprinkler system, corridor walls are required to have a minimum 30-minute fire-resistance rating (780 CMR Table 1020.2). A fire-resistance rating is not required, however, for corridors contained within a Group R sleeping unit (780 CMR §1020.2, Exception 2).

Fire-resistance-rated corridors must be continuous from the point of entry to an (one) exit and must not be interrupted by intervening rooms. Where the path of egress travel continues from within a fire-resistance-rated corridor along unenclosed exit access stairways or ramps, the fire resistance-rating must be maintained until the exit is reached. Foyers, lobbies, or reception rooms constructed as required for corridors are not considered intervening rooms (780 CMR §1020.7).

9.8 DOORS

Doors must provide a minimum clear width sufficient for the occupant load thereof and not less than 32-inches and a minimum height of 80 inches (780 CMR §1010.1.1). When two door leaves are provided without a mullion, one leaf must provide a clear width opening of at least 32 inches.

Egress doors are required to be pivoted or side-hinged swinging type except as follows (780 CMR §1010.1.2):

- Office areas and storage areas with an occupant load of 10 or less;
- Power-operated doors in accordance with 780 CMR §1010.3.2;
- In other than Group H, High-Hazard occupancies, special purpose horizontal sliding, accordion, or folding doors complying with §1010.3.3; and
- In other than Group H, High-Hazard occupancies, manually operated horizontal sliding doors are permitted from rooms or spaces with an occupant load of 10 or less.

Doors serving the following rooms or spaces are required to swing in the direction of egress travel (780 CMR §1006.2.2.2, §1010.1.2.1, §1010.2.9):

- Rooms or spaces with an occupant load of 50 or more;

- Transformer vaults and electrical rooms with equipment rated 800 amperes or more and over 6 feet wide that contain overcurrent devices, switching devices or control devices.
- Refrigeration machinery rooms larger than 1,000 square feet.

Doors equipped with a latch or lock or latch serving the following rooms or spaces are required to be provided with panic hardware or fire exit hardware (780 CMR §1010.2.9):

- Group A, Assembly occupancy rooms or spaces with an occupant load of 50 or more; and
- Transformer vaults and electrical rooms with equipment rated 800 amperes or more and over 6 feet wide that contain overcurrent devices, switching devices or control devices.
- Refrigeration machinery rooms larger than 1,000 square feet.

9.9 STAIRWAYS

Any stairways are required to comply with the applicable requirements of 780 CMR §1011.

The width of stairways will not be less than 44 inches and will be at least wide enough to provide the required capacity to accommodate each floor's occupant load (except that stairways serving less than 50 occupants are permitted to be no less than 36 inches wide).

The headroom on stairs is required to be not less than 80 inches (780 CMR §1011.3). The treads of stairs are required to have a minimum depth of 11 inches. Stair risers are required to have a minimum height of 4 inches and maximum height of 7 inches (780 CMR §1011.5.2). Stair dimensions will be uniform. The tolerance between the largest and the smallest treads will not exceed 3/8 inch in any flight of stairs (780 CMR §1011.5.4).

The minimum dimension of landings and platforms in stairways will be at least the width of the stairway served. The landing dimension in the direction of travel is not required to exceed 4 feet when travel from one flight to the next flight is a straight run. Landings will have a width equal to the width of the stair or a door opening onto a landing, whichever is greater. Doors opening onto landings will not reduce the required landing width by more than one half at any point during the door's swing and not more than 7 inches when fully open (780 CMR §1011.6). The maximum vertical height between landings is 12 feet (780 CMR §1011.8).

Direct exit stair access is limited to normally occupied spaces and corridors (780 CMR §1023.4). Direct access to exit stairs from normally unoccupied areas, such as mechanical areas and penthouses, is not permitted. Exit stairs continuing below the level of exit discharge will have a barrier to prevent occupants from unintentionally continuing below the level of exit discharge (780 CMR §1023.8).

The walls and soffits within enclosed usable spaces under enclosed and unenclosed stairways shall be protected by 1-hour fire-resistance-rated construction or the fire-resistance rating of the stairway enclosure, whichever is greater. Access to the enclosed space shall not be directly from within the stairway enclosure (780 CMR §1011.7.3).

9.10 ACCESSIBLE MEANS OF EGRESS

At least one (1) accessible means of egress is required from an accessible room or space in accordance with 780 CMR §1009. Where more than one (1) means of egress or exit is required from a floor, room or space, at least two (2) accessible means of egress are required. Accessible means of egress must provide a continuous path of travel to a public way (780 CMR §1009.1). Each required accessible means of egress must be continuous to a public way and consist of one or more of the components detailed in 780 CMR §1009.2.

A two-way communication system is required at each elevator landing on each accessible floor that is one (1) or more stories above or below the level of exit discharge. The system must provide communication between each required location and the Fire Command Center or a central control point location approved by the fire department. Where the central control point is not constantly attended, the system must have timed automatic telephone dial-out capability to a monitoring location or 911. The two-way communication system(s) must include both audible and visual signals. Directions for use of the system and other required information are required to be posted adjacent to each device (780 CMR §1009.8).

9.11 EGRESS LIGHTING AND EXIT SIGNS

9.11.1 General Means of Egress Lighting

In normal, non-emergency conditions, means of egress is required to be equipped with artificial lighting facilities to provide one (1) foot-candle intensity floor lighting continuously during the time that the building, or portion thereof, is occupied (780 CMR §1008.2). The illumination level must not be less than 10 footcandles at stairs when they are in use (780 CMR §1008.2).

9.11.2 Emergency Means of Egress Lighting

The means of egress for the building must be equipped with artificial lighting facilities to provide the required intensity of illumination continuously during the time that condition of occupancy of the building requires that the exits be available. Lighting is also provided to illuminate the exit discharge. In the event of power supply failure, an emergency electrical system must automatically illuminate the following areas (780 CMR §1008.3):

- Exit access aisles in rooms and spaces which require two or more means of egress;
- Electrical equipment rooms;
- Public restrooms with an area greater than 300 sq. ft.;
- Exit access corridors, exit access stairways and ramps;
- Exit stairways and exit passageways;
- Exterior egress components at other than the level of exit discharge until exit discharge is accomplished;
- Interior exit discharge elements, as permitted in 780 CMR §1028.1; and
- The portion of the exterior exit discharge immediately adjacent to exit discharge doorways.

In emergency conditions, emergency power must be provided for a minimum of 120-minutes (780 CMR §1008.3, §1008.3.4, §2702.1.5). Emergency lighting facilities must provide an average initial illumination of one (1) foot-candle and a minimum at any point of 0.1 foot-candle measured at any point along the path of egress at floor level. Illumination levels are permitted to decline to 60% of the initial illumination levels at the end of 90-minutes. A maximum to minimum illumination ratio of 40:1 must not be exceeded (780 CMR §1008.3.5).

9.11.3 Exit Signage

Exits and exit access doors must be marked by an approved exit sign readily visible from any direction of egress travel. The path of egress travel to exits and within exits must be marked by readily visible exit signs to clearly indicate the direction of egress travel in cases where the exit or the path of egress travel is not immediately visible to the occupants. Intervening means of egress doors within exits must be marked by exit signs.

Exit sign placement must be such that no point in an exit access corridor or exit passageway is more than 100 feet or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign. Exit signs are not required in rooms or areas that require only one exit or exit access. Exit signs must be internally or externally illuminated at all times.

To ensure continued illumination for a duration of not less than 90 minutes in case of primary power loss, the sign illumination means must be connected to an emergency power system provided from storage batteries, unit equipment or an on-site generator (780 CMR §1013).

Additionally, a sign stating EXIT in visual characters, raised characters and braille and complying with ICC A117.1 must be provided adjacent to each door to an area of refuge, an exterior area for assisted rescue, an exit stairway or ramp serving as an accessible means of egress, an exit passageway and the exit discharge (780 CMR §1013.4).

Exit signs at the level(s) of exit discharge must include the identification with the International Symbol for Accessibility (521 CMR §41.1.3).

10.0 Fire Protection Systems

The following sections provide an overview of fire protection systems. It is the responsibility of the engineer of record to confirm details of the fire protection systems.

10.1 AUTOMATIC SPRINKLER SYSTEM

The building will be protected throughout with an automatic sprinkler system designed in accordance with 780 CMR §903.2 and NFPA 13, Standard for the Installation of Sprinkler Systems. Sprinkler coverage is not planned to be omitted in any areas.

10.2 PORTABLE FIRE EXTINGUISHERS

Fire extinguishers must be provided throughout the building in accordance with NFPA 10, Standard for Portable Fire Extinguishers and 780 CMR §906. Extinguishers will be selected based on the anticipated hazard and classified for protection of that hazard. For Group A fire hazards (e.g. cellulous materials), extinguishers must be located in accordance with 780 CMR Table 906.3(1), and the maximum travel distance is 75 feet. For hazards where there is a potential for fires involving combustible cooking media (vegetable or animal oils and fats), extinguishers must be located in accordance with NFPA 10 §6.6, and the maximum travel distance is 30 feet. Fire extinguishers will be conspicuously located and readily accessible to building occupants.

10.3 FIRE ALARM SYSTEM

An addressable fire detection and alarm system will be provided in the building (780 CMR §907.2). The system will be monitored by an approved supervising station in accordance with NFPA 72 (780 CMR §907.6.6). Notification coverage will be designed to accommodate the proposed layouts and hazards. Fire alarm is not planned to be omitted in any areas. The system will include the following features:

10.3.1 Manual Pull Stations

Manual pull stations are generally not required in assembly, business or residential occupancies where the building is protected throughout with automatic sprinkler systems and activation of the sprinkler system will notify occupants with fire alarm appliances (780 CMR §907.2.1, §907.2.2, §907.2.9).

Manual pull stations are anticipated to be provided within the building unless agreed to otherwise by the Worcester Building and Fire Departments.

10.3.2 Automatic Fire Detection

Single- and multi-station smoke alarms are required to be located in the following locations (780 CMR §907.2.9.2):

- On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms.
- In each room used for sleeping purposes.

System smoke detection connected to the building fire alarm system that actuates alarm notification only in the dwelling or sleeping unit is an acceptable alternative to single- and multi-station smoke alarms (780 CMR §907.2.11.7).

10.3.3 Carbon Monoxide Detection

Carbon monoxide detection is required to be provided in sleeping units located in buildings that contain fuel-burning appliances or fuel-burning fireplaces (780 CMR §915.1.4). In such cases, carbon monoxide detection must be installed in sleeping units, or outside of each separate sleeping area in the immediate vicinity of the sleeping unit where the unit or its attached bathroom does not contain a fuel-burning appliance and is not served by a forced air furnace (780 CMR §915.2.2).

11.0 Elevators

Elevators are required to comply with the applicable requirements of 780 CMR Chapter 30 and 524 CMR. The building must be provided with at least one passenger elevator designed to accommodate the loading and transportation of an ambulance gurney or stretcher (24" wide by 84" long with 5" radius corners) in its horizontal position (524 CMR §2.27.12(1)(a)).

12.0 Fire Department Vehicle Access

Access roads are subject to Authority Having Jurisdiction (AHJ) approval, and the road must be capable of supporting the imposed loads of fire apparatus. The access road must be provided with an all-weather driving surface and must be maintained (527 CMR §18.2.2.1.1, §18.2.3.5.2).

Fire department access roads must consist of roadways, fire lanes, parking lot lanes, or a combination thereof (527 CMR §18.2.3.1.2).

When fire department access roads cannot be installed due to location on property, topography, waterways, nonnegotiable grades, or other similar conditions, the AHJ is permitted to accept alternatives proposed by the owner of the building to allow additional fire protection features, up to and including the installation of an approved fire sprinkler system installed in accordance with the Building Code, cistern(s), additional fire hydrant(s), or similar devices or systems (527 CMR §18.2.3.1.4).

Fire apparatus access road plans are required to include an analysis and evaluation of fire apparatus maneuvers throughout the access roads created by swept path analysis and turn simulation software (527 CMR §18.1.1.4). The fire apparatus access plans are required to be signed and stamped by the responsible registered professional (527 CMR §18.1.1.5).

A fire department access road is required to extend to within 50 feet of at least one exterior door that can be opened from the outside and that provides access to the interior of the building (527 CMR §18.2.3.2.1). Such roads must extend such that all portions of the exterior wall of the first story of the building (fully sprinklered in accordance with NFPA 13) is located no more than 250 feet from a fire department access road as measured by an approved route around the exterior (527 CMR §18.2.3.2.2.1). The fire department is permitted to require multiple access roads if access by a single road is subject to impairment (527 CMR §18.2.3.3).

Access roads must have an unobstructed width of not less than 20 feet and height of not less than 13.5 feet (527 CMR §18.2.3.5.1.1, §18.2.3.5.1.2). The height is permitted to be reduced if the remaining clearance does not impair access by fire apparatus, and approved signage is provided when approved (527 CMR §18.2.3.5.1.2.1).

The minimum inside turning radius of a fire department access road is required to be 25 feet; however, the AHJ is permitted to increase the minimum inside turning radius to accommodate apparatus (527 CMR §18.2.3.5.3.1). Turns in fire department access roads must maintain the minimum road width (527 CMR §18.2.3.5.3.2). Dead-end fire department access roads in excess of 150 feet in length must be provided with approved provisions for the fire apparatus to turn around (527 CMR §18.2.3.5.4).

The gradient for a fire department access road must not exceed 10%, unless approved by the AHJ (527 CMR §18.2.3.4.6.1). The angle of approach and departure for any means of fire department access road must not exceed a 1-foot drop in 20 feet, or the design limitations of the fire apparatus of the fire department and are subject to approval by the AHJ (527 CMR §18.2.3.5.6.2). Fire department access roads connecting to roadways are required to be provided with curb cuts extending at least 2 feet beyond each edge of the fire lane (527 CMR 18.2.3.5.6.3).

The use of the opposite travel lane is prohibited in the design of all new fire apparatus access roads (527 CMR §18.2.3.5.8).

Where required by the AHJ, approved signs, approved roadway surface markings, or other approved notices must be provided and maintained to identify fire department access roads or to prohibit the obstruction thereof or both (527 CMR §18.2.3.6.1). A marked fire apparatus access road is also known as a fire lane (527 CMR §18.2.3.6.2).

The minimum required width of a fire department access road must not be obstructed in any manner, including by the parking of vehicles and minimum requires widths and clearances must be maintained at all times (527 CMR §18.2.4.1.1, §18.2.4.1.2).

13.0 Plumbing Fixtures

The Massachusetts Plumbing Code (248 CMR) regulates the number of plumbing fixtures required in buildings. The minimum number of plumbing fixtures is established by 248 CMR 10.10 Table 1 based on the building use. The following table summarizes the plumbing fixture requirements based on 248 CMR for expected occupancies in the building.

Table 12 - Plumbing Requirements

Occupancy Classification	Toilets		Urinals	Lavatories Each Sex	Drinking Water Stations	Bathtubs or Showers	Service Sink
	Females	Males					
Places of Business	1 per 20 (up to 100) Over 100 add 1 per 50	1 per 25 (up to 100) Over 100 add 1 per 50	Up to 50% substitution	1 per 50	One for each set of restrooms	N/A	One Mop Sink per floor
Residential Use	1 per 6	1 per 8	Up to 33% substitution	1 per 8	N/A	1 per 8 Male 1 per 8 Female	One Mop Sink per floor

In establishments other than residential, restroom facilities must be clearly designated and no further than four hundred feet in developed direct distance away from the regular place of daily work activity of any person for who use it is required. In multi-story buildings, access to the required toilet facilities must not exceed one vertical story (248 CMR §10.10(15)(c)(4)).

All single user toilet rooms are permitted to be assigned as gender neutral (unisex) as long as the total number of plumbing fixtures provided is equal to or greater than the aggregate number of required male and female plumbing fixtures.

14.0 Accessibility

In general, the building is required to comply with the Americans with Disabilities Act (ADA), more specifically, the 2010 Standards for Accessible Design (ADAS) and Section 521 of the Code of Massachusetts Regulations as issued by the Massachusetts Architectural Access Board (521 CMR). In the case that the property is constructed, renovated, operated or purchased by a recipient of federal financial assistance, Section 504 of the 1973 Rehabilitation Act will also apply.

New construction, alterations, and additions are required to comply with the scoping and technical specifications of all applicable regulations, codes, and standards. In cases where there is a disparity in the scoping or technical criteria among the applicable codes and standards, the most stringent requirements shall prevail as long as these do not conflict with or provide a lower level of accessibility than is required by the other codes and standards.

For the purposes of this report, the information provided for accessibility code compliance is limited to the scoping requirements of the applicable codes. As part of this project, Jensen Hughes did not review the building for accessibility code compliance.

****** End of Report ******