



MX Series

CONTRACTOR GRADE THERMOPLASTIC LED EXIT



PROJECT: _____
 FIXTURE TYPE: _____
 LOCATION: _____
 CONTACT/PHONE: _____

PRODUCT DESCRIPTION

The MX Series combines an ultra-slim polycarbonate housing and dependable Mule LED performance to give you a versatile all-in-one, 21st century design. This truly universal exit sign includes the canopy and extra faces for any application. Installation is accomplished in minutes with our tool-less, Snap-In™ design. Available with red or green energy efficient LED light sources to provide years of maintenance-free illumination at a minimal cost.

PRODUCT SPECIFICATIONS

CONSTRUCTION

Injection molded, engineering-grade, UV-stable thermoplastic • UL94V-0 flame rating • Impact, scratch, fade and corrosion-resistant • Durable unibody housing frame with integral wiring channel • Snap-fit faceplate and backplate • Second faceplate included for double face applications • 6" letters with 3/4" stroke width • Chevron directional indicators can be easily removed or reinserted as necessary • Red or green letters • White or black textured finish.

ELECTRICAL

Dual voltage 120/277VAC • Rated for use in damp locations • Solid state charging and switching • Brownout protection • Battery low voltage disconnect • Overload and short circuit protection • AC power indicator and test switch.

LAMPS

Long life, energy saving LED lamps • Red or green LED/letters • Signs consume less than 3 watts.

BATTERY

Standard exit sign supplied with NiCad battery, REM option supplied with lead calcium battery • Standard battery will operate sign for a minimum of 90 minutes in the event of a power outage • REM version will operate the sign plus an additional 3W of remote load • Temperature rating is 0-40 degrees C.

CODE COMPLIANCE

UL924 • Damp location rated • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • California Energy Commission (CEC) • Title 20 Compliant

WARRANTY

5-year warranty. Product specifications subject to change without notice.

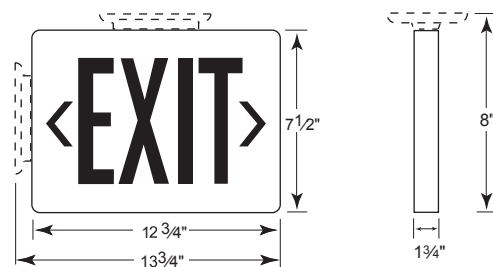
INSTALLATION

MOUNTING

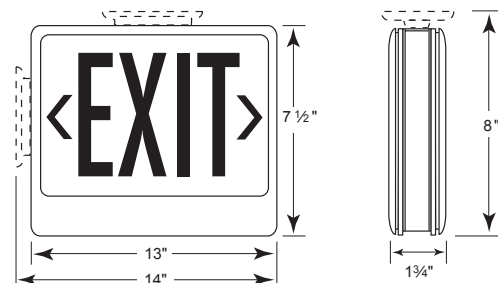
May be top, back or end mounted • All signs include quick-install snap-fit canopy and mounting hardware for easy top or end mount installation • Backplate includes universal mounting pattern knockouts for simple back mounting.



Standard Version



Optional REM Version



ORDERING INFORMATION

model	operation	color (letters)	faces	options	accessories ⁴
MX	A = AC Only B = Battery Backup	R = Red G = Green	U ¹ = Universal	SD ² = Self-Diagnostics BL = Black Housing DLC-120 ³ (Dual Circuit with 120V input) DLC-277 ³ (Dual Circuit with 277V input) REM = Remote Capable SL = Special Lettering USA = Assembled in USA SV = Special Voltage (specify)	WG1 = Wire Guard (wall mount) BPG2 = Wire Guard (wall mount) BPG3 = Wire Guard (ceiling mount) PCS-1 = Polycarbonate Cover BG-1 = Vandal Resistant Bubble Shield PKMX1 = 1ft Pendant Mount Kit PKMX2 = 2ft Pendant Mount Kit
Notes					
¹ Universal includes 2nd exit face, backplate and canopy					
² Not available on AC units					
³ AC only, for use with inverter or generator applications only					
⁴ Order as separate line item. Field installation					

Ordering Example: MXBRU-SD-USA



WLMX SERIES

WET LOCATION LOW PROFILE LED EXIT • NEMA-3R • IP65



PROJECT:

FIXTURE TYPE:

LOCATION:

CONTACT/PHONE:

PRODUCT DESCRIPTION

WLMX Series Wet Location LED Exit Signs offer long lamp life, energy efficiency and uniform illumination. The water-tight, corrosion-resistant thermoplastic housing is sealed and gasketed to protect the internal electronics from water, dust and corrosive liquids. The WLMX Series is designed with knock-out chevron directional indicators for ultimate installation flexibility and simplified specification. The vibration resistant LED illumination and polycarbonate lens makes this fixture ideal for demanding industrial environments, especially those subject to frequent water spray.

PRODUCT SPECIFICATIONS

CONSTRUCTION

Corrosion-resistant, impact-resistant, injection-molded UL94 V-0 flame retardant, high-temperature polycarbonate housing • Clear polycarbonate lens • Sealed and gasketed • Sealed test switch and power indicator • Multiple factory identified conduit entry locations • 6" letters with 3/4" stroke width • Chevron directional indicators can be easily removed as necessary • Single face, double face or universal • Red or green letters • Industrial gray finish standard.

ELECTRICAL

Dual voltage 120/277VAC • Rated for use in wet locations • Solid state charging and switching • Brownout protection • Battery low voltage disconnect • Overload and short circuit protection • Unique bi-color LED indicator light alerts occupant on battery condition (Green-normal, Red-check battery) • AC power indicator and test switch.

LAMPS

Long life, energy saving LED lamps • Red or green LED/letters • Signs consume less than 4 watts.

BATTERY

Long life, 4.8V maintenance-free, high performance nickel cadmium • Designed to operate over a wider range of temperature conditions (-4°F to 120°F recommended operating range) • Battery will operate sign for a minimum of 90 minutes in the event of a power outage.

CODE COMPLIANCE

UL924 • Wet Location Listed • NEMA-3R • IP65 • Suitable for use in (-4°F to 120°F) temperature range • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • CEC Title 20 Compliant

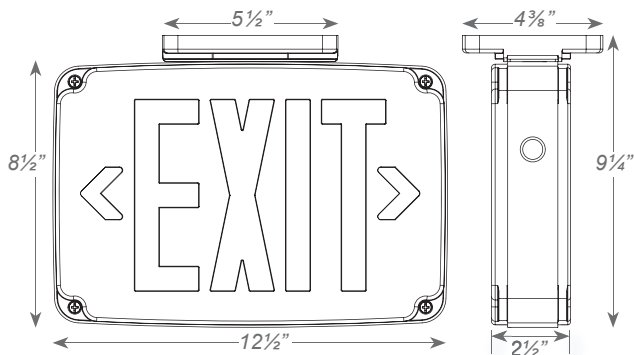
WARRANTY

5-year warranty. Product specifications subject to change without notice.

INSTALLATION

MOUNTING

Surface (surface top, back, or end) mount only • Top and side knock-outs for conduit feed applications • Includes mounting screws, hardware, and gaskets.



OPTIONS

SELF-DIAGNOSTICS

The Self-Diagnostics circuit continuously monitors the operating condition of the AC power, battery supply voltage, emergency lamp continuity and charging circuit. The circuit will perform a 30 second discharge and self-test every 30 days. A full 90 minute discharge and self-test is performed every 6 months.

DUAL CIRCUIT

Dual-circuit operation allows for dual input of power sources on units without battery. Compatible with inverters and generator systems.



ORDERING INFORMATION

Model	# of Faces	Operation	Color (letters)	Color (housing)	Options
WLMX	1 = Single	A = AC only	R = Red	WH = White (with white faceplate)	SD ¹ = Self-Diagnostics
	2 = Double	B = W/ Battery	G = Green	BL = Black (with black faceplate)	TP = Tamper-Proof Hardware
	1/2 = Universal ³			GR = Gray (with white faceplate)	SL = Special Lettering
Notes					DLC-120 ² (Dual Circuit with 120V input)
					DLC-277 ² (Dual Circuit with 277V input)

¹ Available on battery models only

² AC only, for use with inverter or generator applications only

³ Available only with white housing.

Ordering Example: WLMX-2-B-R-GR-SD-TP



SQ-80-LED Series

ALL LED THERMOPLASTIC EMERGENCY LIGHT



PROJECT: _____
FIXTURE TYPE: _____
LOCATION: _____
CONTACT/PHONE: _____

PRODUCT DESCRIPTION

The SQ-80-LED Series thermoplastic LED Emergency Lights offer contemporary aesthetics, quick installation and premium options such as LED lamps, High Output and Self-Diagnostic versions in an economical package.

PRODUCT SPECIFICATIONS

CONSTRUCTION

Injection molded, engineering-grade, UV-stable thermoplastic • UL94V-0 flame rating • Impact, scratch, fade and corrosion-resistant • Snap-fit housing and mounting plate • Universal mounting plate with quick-connect feature reduces installation labor • White or black textured finish.

ELECTRICAL

Dual 120/277 voltage standard. Optional multi-tap 208/220/240 voltage available • Rated for use in damp locations • Solid state charging and switching • Brownout protection • Battery low voltage disconnect • Overload and short circuit protection • AC power indicator and test switch.

LAMPS

Long life, energy saving LED lamps • 1W (8 LEDs x 0.125 watt) per head

HEADS

Includes two 1W white LED lighting heads • Contemporary square head design • High performance chrome-plated metallized reflector and plastic lens for optimal light distribution • Adjustable LED lamp heads provide optimal center-to-center spacing. High-lumen option available for increased center-to-center spacing

BATTERY

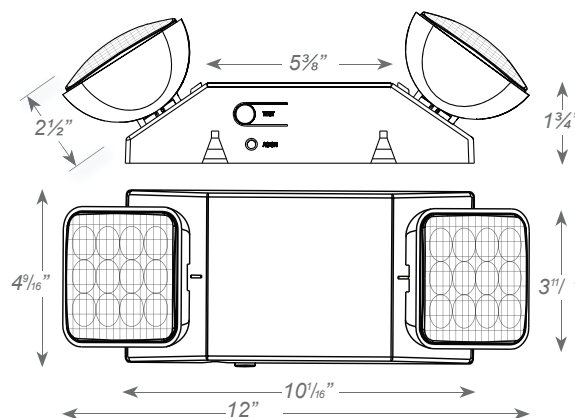
Maintenance-free 3.6V sealed NiCad battery • Standard battery will operate fixture for a minimum of 90 minutes in the event of a power outage • High Output (REM Option) version will operate the fixture plus 2 remote heads for a minimum of 90 minutes.

CODE COMPLIANCE

UL924 • UL Listed for damp locations (0°C – 50°C) • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • Meets the State of Minnesota energy efficiency requirements • CEC Title 20 Compliant

WARRANTY

5-year warranty. Product specifications subject to change without notice.



ENGINEERING DATA

Input Voltage	Max. Amps	Max. Watts
120	0.04	2.0
277	0.02	2.0

INSTALLATION

MOUNTING

Suitable for wall or ceiling mounting • Surface mount via easy connect back plate, which fits most standard junction boxes and snaps into place making internal electrical connections • Top and side knockout for conduit applications.



ORDERING INFORMATION

model	housing color	options	accessories
SQ-80-LED	W = White B = Black	SD = Self Diagnostic REM ¹ = Remote Capable HL ² = High Lumen Heads (1.5W) SV ³ = 208/220/240 Volt, 50/60Hz	BGR-1 = Vandal Resistant Shield WG-1 = Wire Guard (Brushed Silver Finish) WG-STI-9703 = Wire Guard (White Powdercoat Finish)

Notes

¹ Additional capacity to run up to (2) RLED remote heads (see below)

² 12-LED (1.5W) per head provides increased center-to-center spacing

³ Not available on units with SD option

Ordering Example SQ-80-LED-W-SD



SQ-80-LED Series

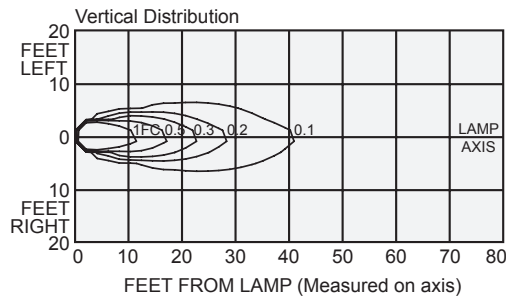
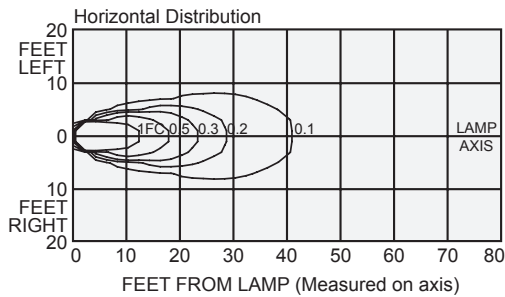
ALL LED THERMOPLASTIC EMERGENCY LIGHT



PROJECT: _____
FIXTURE TYPE: _____
LOCATION: _____
CONTACT/PHONE: _____

PHOTOMETRICS

Luminaire SQ-80-LED (Single Head LED EM)



BATTERY DATA

- NiCad battery warranted for five full years with an additional 5 years prorated warranty

Type	Battery Voltage	Shelf Life ²	Expected Life ¹	Temperature Range ²
NiCad (std.)	3.6V, 900mA	3 years	8-10 years	32°F-100°F
NiCad (REM)	3.6V, 1800mA	3 years	8-10 years	32°F-100°F

¹ At 77°F

² To obtain rated life and capacity.

LED REMOTE HEADS (ORDER SEPERATELY)

- Each lamp contains 12 long-life, efficient ultra-bright white LED's
- Available in Single or Double head configurations
- Indoor or Outdoor ratings available

MODEL	DESCRIPTION
ASRLED-1	Single LED Remote Indoor
ASRLED-2	Double LED Remote Indoor
ASRLED-1-SD	Single LED Remote Indoor (Units w/ SD Option)
ASRLED-2-SD	Double LED Remote Indoor (Units w/ SD Option)
ASRLED-1-WP	Single LED Remote Outdoor
ASRLED-2-WP	Double LED Remote Outdoor
ASRLED-1-WP-SD	Single LED Remote Outdoor (Units w/ SD Option)
ASRLED-2-WP-SD	Double LED Remote Outdoor (Units w/ SD Option)

OUTDOOR REMOTE HEADS



INDOOR REMOTE HEADS





SQ-80-LED Series

ALL LED THERMOPLASTIC EMERGENCY LIGHT

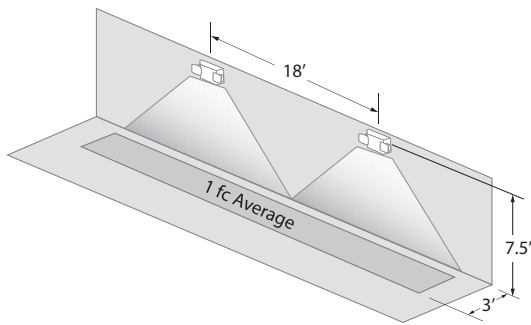


PROJECT: _____
FIXTURE TYPE: _____
LOCATION: _____
CONTACT/PHONE: _____

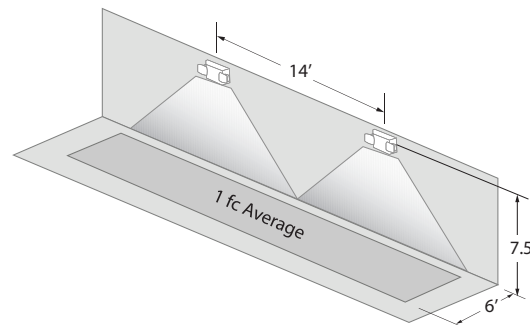
SPACING DIAGRAMS

SQ-80-LED

3ft Path Spacing

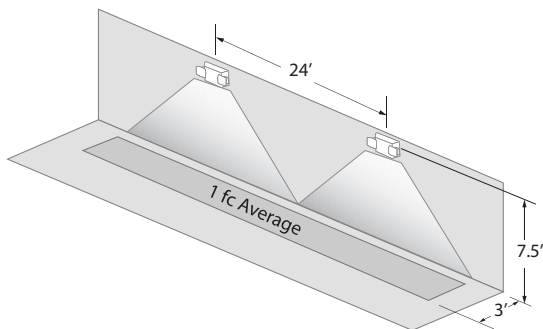


6ft Path Spacing

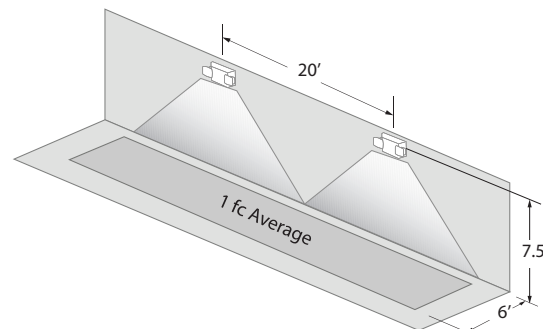


SQ-80-LED-HL

3ft Path Spacing



6ft Path Spacing





WLEM-LED Series

WET LOCATION EMERGENCY LIGHT



PROJECT: _____
FIXTURE TYPE: _____
LOCATION: _____
CONTACT/PHONE: _____

PRODUCT DESCRIPTION

The WLEM-LED features an enclosure which is ideal for wet locations, resistant to corrosive atmospheres, non-hazardous dust environments and to water spray, splashing water or where hose downs frequently occur. It includes two white LED lighting heads for long life, reliable operation.

PRODUCT SPECIFICATIONS

CONSTRUCTION

Corrosion-resistant 5VA flame retardant, UV-stabilized polycarbonate in industrial gray finish • Sealed and gasketed housing with hinged cover • Sealed test switch and power indicator light • Integral breather vent • External mounting brackets for simplified wall mounting • Sealed and gasketed weatherproof lighting heads with tempered glass lenses • Listed for wet location applications (-20°C-40°C).

ELECTRICAL

Dual voltage 120/277VAC • Solid state charging and switching • Brownout protection • Battery low voltage disconnect • Overload and short circuit protection • AC power indicator and sealed test switch.

LAMPS

Supplied with white LED lamps • 1.875W (15 LED's x 0.125) per head

HEADS

Includes two sealed and gasketed weatherproof lighting heads with tempered glass lenses • Contemporary round head design • High performance chrome-plated metallized reflector for optimal light distribution • Adjustable LED lamp heads provide optimal center-to-center spacing.

BATTERY

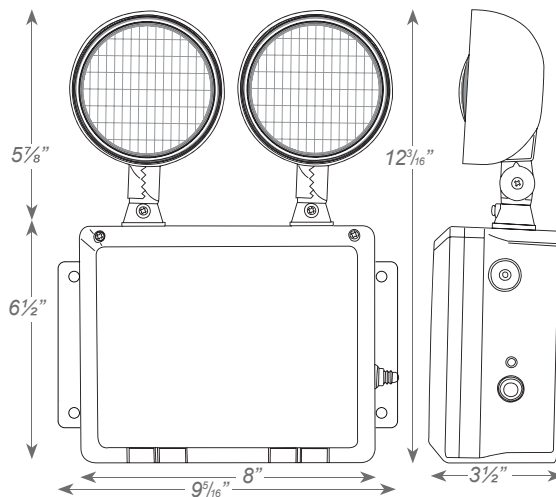
Maintenance-free, 9.6V NiCad battery • Standard battery will operate fixture plus up to 3.7W remote capacity for a minimum of 90 minutes in the event of a power outage

CODE COMPLIANCE

UL924 • Listed for wet location applications (-20°C-40°C) • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant.

WARRANTY

5-year warranty. Product specifications subject to change without notice.



INSTALLATION

MOUNTING

Suitable for wall mounting • External mounting brackets for simplified wall mounting.



ORDERING INFORMATION

model	housing color	options
WLEM-LED	G = Gray	BL = Black Housing

Ordering Example WLEM-LED-G



WLEM-LED Series

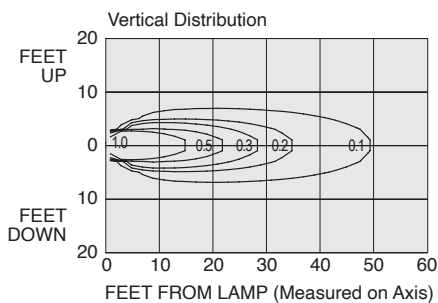
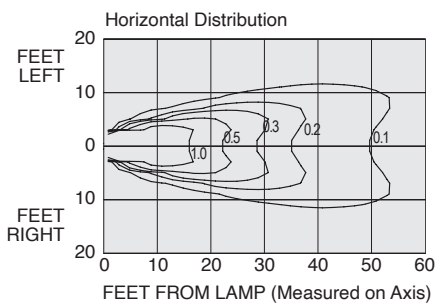
LED WET LOCATION EMERGENCY LIGHT



PROJECT: _____
FIXTURE TYPE: _____
LOCATION: _____
CONTACT/PHONE: _____

PHOTOMETRICS

Luminaire **WLEM-LED (Single Head LED EM)**



BATTERY DATA

- NiCad battery warranted for five years with additional 5 years pro-rated warranty
- Recharges in 24 hours or less

Type	Battery Voltage	Shelf Life ¹	Expected Life ¹	Temperature Range ²
NiCad	9.6V, 900mAh	3 years	8-10 years	32°F-100°F

¹ At 77°F

² To obtain rated life and capacity.

ENGINEERING DATA

Input Voltage	Max. Amps	Max. Watts
120	0.03	3.1
277	0.02	3.5

ACCESSORIES

Catalog Number	Description	Max. Remote Load Qty.
VRS4	Polycarbonate vandal shield - medium bubble	N/A
RLEDC-1-9.6V	White LED square remote head, white finish, single head	2
RLEDC-2-9.6V	White LED square remote head, white finish, dual head	1
RLEDC-1-WP-9.6V	White LED Outdoor remote head, grey finish, single head	2
RLEDC-2-WP-9.6V	White LED Outdoor remote head, grey finish, dual head	1



WLEM-LED Series

LED WET LOCATION EMERGENCY LIGHT



PROJECT:

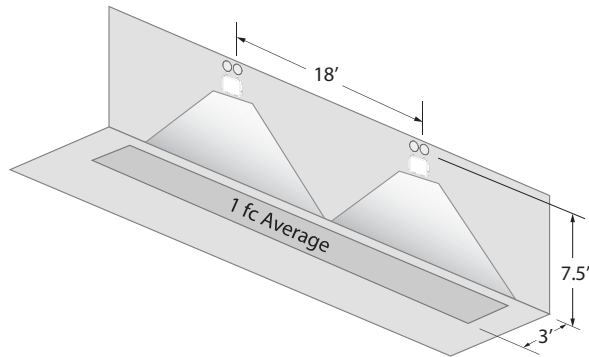
FIXTURE TYPE:

LOCATION:

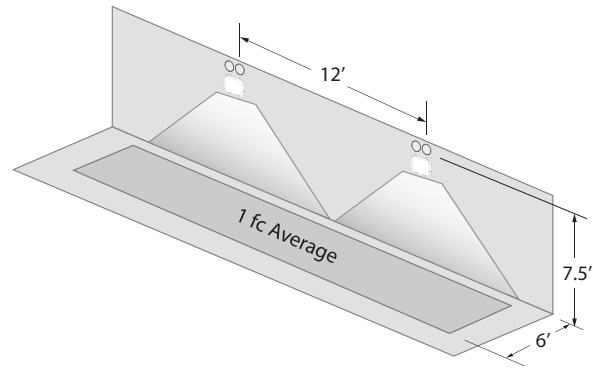
CONTACT/PHONE:

SPACING DIAGRAMS

3ft Path Spacing



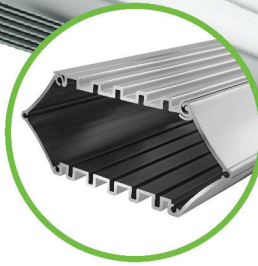
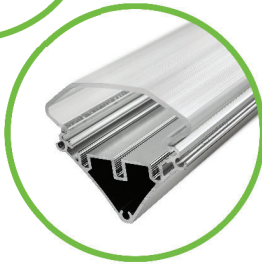
6ft Path Spacing





Series - High **Lumen** Family - Specification Sheet

The LUX IK10+ series features **COMPETITIVE EFFICACY** across a **BROAD LUMEN RANGE**. We build the IK10+ from durable **6463 EXTRUDED ALUMINUM** making it beautiful while maintaining terrific **STABILITY** and **LONGEVITY**.



Performance

- Lumen output: **8,700 up to 200,000 lumens, approx.**
- Efficacy: **Up to 166 Lumens per Watt**
- L_{70} (per TM-21): **72,000 Hours**
- L_{70} (calculated): **147,000 Hours**
- Ambient Temp. Rating: **-40°F to 150°F (-40°C to 65.5°C)**
Ambient temperature rating varies for auxiliary components
- Surge Protection: **6kV (10kV Option Available)**

Construction

- Extruded 6463 aluminum construction
- Stainless-steel hardware
- Bright dip anodized fixture body
- Isolated driver channels
- Thermally independent heat sink LED bars

Listing and Ratings

- UL 1598 for Dry, Damp, and Wet Locations
- ARRA/BAA Compliant (Made in America)
- BABA Compliant Options Available, Consult Factory
- IP55 Rated
- UL EPH Listed - NSF Rated
- 3G Vibration Rated
- Exceeds IK10 impact rating with polycarbonate lens
- IK10 rating does not apply to acrylic lenses

Warranty

- 10-Year Warranty on fixture body
- 5-Year Warranty on electronics
- For special requests, contact Factory

Applications

- Gymnasiums/Sports Facilities
- Warehouses
- Manufacturing/Industrial
- Arenas/Fieldhouses
- Natatoriums
- Hangars

Installation

- Aircraft cable suspension
- Surface mounting
- Rigid pendant mounting (with or without powerfeed)
- Adjustable yoke mount
- Tandem mounting available
- Custom mounts available, contact Factory

Optics

- Wide 120° beam angle LEDs
- Optional narrow optic for aisle or racking applications
- LED bars are rotatable to allow for custom distributions
- Diffusing lens available in clear and visually comfortable white
- Acrylic and polycarbonate lens materials available
- Lens offers up to 10% uplight

QuickShip

IK10+ Quick Ship Available
Visit: www.luxdynamics.com



Example Catalog Number:

L 3 D A 850 2 U10

Series		Number of BARS L series only	Number of Channels	Fixture Configuration	CRI / CCT	Length	Voltage and Dimming		
L High Lumen	1	2' length 12,005lm	4' length 24,010lm	A defines standard configuration.	865 80CRI 6500K	2 2' (24.75") Standard (24.14") Narrow 4 4' (47.81") Standard (46.34") Narrow	U10	120-277V	0-10V dimming 10% min.
	2-18lm	18,397lm	N/A		857 80CRI 5700K			U1	120-277V 0-10V dimming 1% min.
	2-36lm	N/A	36,794lm		850 80CRI 5000K			H10	347/480V 0-10V dimming 10% min.
	2	23,837lm	47,674lm		840 80CRI 4000K			H1	347/480V 0-10V dimming 1% min.
	3-30lm	31,397lm	N/A		835 80CRI 3500K			DALI	120-277V DALI control
	3	35,249lm	70,498lm		830 80CRI 3000K			DMX	120-277V DMX control
	4	47,237lm	94,474lm		827 80CRI 2700K			DP10	277-480V 0-10V dimming 10% min.
	5	58,857lm	117,714lm		950 90CRI 5000K			Dimming curves and other operating characteristics may vary between models	
	6	71,151lm	142,302lm		940 90CRI 4000K				
	7	83,182lm	166,364lm		935 90CRI 3500K				
	8	95,538lm	191,076lm		927 90CRI 2700K				
					TW Tunable White RGBW RBG with 935 GREYED options not stocked and may need additional lead time				

Some CRI, CCT and other output variations may affect DLC listing; contact LUX for further information.

Options and Accessories

Distribution

(leave blank) General Distribution

N Narrow optics

Narrow optic options vary

See page 6 and 8 for all narrow optic options

Lensing

(leave blank) No Lensing, bare LEDs

CA Clear acrylic diffuse lens

WA White acrylic diffuse lens

CP Clear polycarbonate diffuse lens

WP White polycarbonate diffuse lens

"2" or "4" denotes fixture length

Recommended (leave blank) with N distribution option

Recommended WA or WP options for visual comfort

DLC listing for CA, CP, and (leave blank) options

Lumen/Wattage Output

CFO Custom fixture output (specify
custom lumen output or wattage
lower than standard)

Direction of Light

(leave blank) BARs aimed down

I BARs aimed up

C Custom aiming

Consult with Factory for option "C"

BAR Locking

(leave blank) BARs fixed

R BARs rotatable (Not suitable for WET locations)

Recommended FIXED (BLANK) in high-abuse environments

Channel Access

T Lid opens from above fixture

B Lid opens from below fixture

Some options, including controls and mounting
types, may require specific access, consult Factory
for further information

Cord

(leave blank) No cord provided

3/10 3-wire, 10' cord Standard white

4/10 4-wire, 10' cord Standard white

5/10 5-wire, 10' cord Standard white

6/10 6-wire, 10' cord Standard white

Other cord lengths and multi-circuit wiring available

1st digit: Number of wires, including ground, available from 3 through 6

2nd digit: Overall length, including strips, available from 10' through 30'

Emergency

E10 10-watt integral emergency battery
(CA Title-20 compliant)

E15 15-watt integral emergency battery
(CA Title-20 compliant)

E20 20-watt integral emergency battery
(CA Title-20 compliant) not available on all
configurations, consult Factory

E20R 20-watt non-integral emergency battery
(CA Title-20 compliant) **must be field-installed**

E30R 30-watt non-integral emergency battery
(CA Title-20 compliant) **must be field-installed**

Remote Mounting

(leave blank) Standard integral driver(s)

RMS Remote mount driver(s) - surface mount

RMC Remote mount driver(s) - cable mount

RNK Remote mount driver(s) - no enclosure kit provided

Restrictions may apply for certain applications, consult Factory

Options and Accessories Continued

Mounting

(leave blank)	No mounting hardware provided
10Y	Y-hanger AC cable up to 11' length, snap hook
4P10	4-point AC cable up to 10' length, hook
4P10S	Stainless steel 4-point AC cable up to 10' length, hook
SPM	Adapter to suspend luminaire below existing stem
MH1	Myer's hub 1-point, 3/4" GRC adapter, Galv. Steel
MH2	Myer's hub 2-point, 3/4" GRC adapter, Galv. Steel
MH1S	Myer's hub 1-point, 3/4" GRC adapter, stainless-steel
MH2S	Myer's hub 2-point, 3/4" GRC adapter, stainless-steel
SM	Surface mount, no machining or hardware provided
SMH	Surface mount, incl. pre-machined mounting points
UM2	Unistrut mount, includes (2) points of mounting, suitable for mounting to single strut.
UM4	Unistrut mount, includes (4) points of mounting, suitable for mounting to (2) struts.
YK	Yoke mount, adjustable trunnion (Not suitable for WET locations)

Mounting via Aircraft Cable suitable for Static Loads only. If fixtures are subject to movement or mounting substrate is prone to instability, rigid mounting is required. Suitable mounting styles include: MH1, MH2, MH1S, MH2S, SM, SMH, UM2, UM4, AND YOKE (YK).

Some mounting options may require specific channel access.

Additional cable lengths available, consult Factory

Finish

(leave blank)	Standard natatorium-grade bright dip anodized aluminum and green hanging brackets, shown on specification sheet
M	Silver stainless-steel hanging brackets (no green). Standard bright dip anodized aluminum body
PC	Custom color by powdercoat. Must specify RAL number and components to be finished
BLKG	Glossy black finish on all components
BLKM	Matte black finish on all components

Custom color anodized aluminum available in 2' configurations, consult Factory.

Controls

OC	Integral on/off occupancy sensor (120-277V)
DO	Integral high/low/off occupancy and daylight harvesting sensor (120-277V)
OCKH	High voltage (347/480V) knockout-mounted on/off occupancy sensor, not installed
DOKH	High voltage (347/480V) knockout-mounted high/low/off occupancy and daylight harvesting sensor, not installed
Wireless Controls	Multiple wireless control systems available. Contact Factory for options and details

LUX is controls-agnostic and can use most requested control systems

Application (Select all that apply)

GEN	General applications (Not rated for WET, NSF, or high abuse environments)
WET	Wet location (Includes conformal coated LED modules, HOS)
COR*	Caustic/natatorium environments (Includes conformal coated LED modules, HOS)
NSF	EPH rated for food-safe applications
TC	Tennis court (Polycarbonate lensing recommended)
MFG	Manufacturing or industrial
WHS	Warehousing or storage
HNG	Hangar
GYM	Gymnasium or sports court (Polycarbonate lensing required)
AFH	Arena or fieldhouse (Polycarbonate lensing recommended)
ARCH	Architectural (White lensing recommended)
ICE	Ice rink (Polycarbonate lensing recommended)
GAR	Garage or canopy
FRZ	Freezer or cold storage
HT	High temp, 55°C/131°F or higher (E-Series recommended)

*COR application not suitable for all caustic environments, consult Factory

Lensing and Bottom Access required for WET, COR, and EPH/NSF applications

Consult Factory for cost adders for WET, COR and EPH/NSF applications

2' Performance - Wide Distribution (Data Based on 5000K and 80CRI)

No Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX	12,522	78	161	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX	19,190	116	166	
L-2-XX-850-2-XXX	24,864	154	162	
L-3-30lm-XX-850-2-XXX	32,750	201	163	
L-3-XX-850-2-XXX	36,768	233	158	
L-4-XX-850-2-XXX	49,272	309	159	
L-5-XX-850-2-XXX	61,393	388	158	
L-6-XX-850-2-XXX	74,216	465	160	
L-7-XX-850-2-XXX	86,766	544	159	
L-8-XX-850-2-XXX	99,654	618	161	

CA (Clear Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-CA	12,005	78	154	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-CA	18,397	116	159	
L-2-XX-850-2-XXX-CA	23,837	154	155	
L-3-30lm-XX-850-2-XXX-CA	31,397	201	156	
L-3-XX-850-2-XXX-CA	35,249	233	151	
L-4-XX-850-2-XXX-CA	47,237	309	153	
L-5-XX-850-2-XXX-CA	58,857	388	152	
L-6-XX-850-2-XXX-CA	71,151	465	153	
L-7-XX-850-2-XXX-CA	83,182	544	153	
L-8-XX-850-2-XXX-CA	95,538	618	155	

CP (Clear Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-CP	11,080	78	142	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-CP	16,979	116	146	
L-2-XX-850-2-XXX-CP	22,000	154	143	
L-3-30lm-XX-850-2-XXX-CP	28,977	201	144	
L-3-XX-850-2-XXX-CP	32,533	233	140	
L-4-XX-850-2-XXX-CP	43,597	309	141	
L-5-XX-850-2-XXX-CP	54,321	388	140	
L-6-XX-850-2-XXX-CP	65,668	465	141	
L-7-XX-850-2-XXX-CP	76,772	544	141	
L-8-XX-850-2-XXX-CP	88,176	618	143	

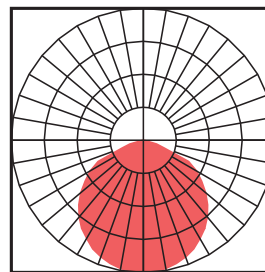
WA (White Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-WA	11,008	78	141	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-WA	16,869	116	146	
L-2-XX-850-2-XXX-WA	21,858	154	142	
L-3-30lm-XX-850-2-XXX-WA	28,790	201	143	
L-3-XX-850-2-XXX-WA	32,322	233	139	
L-4-XX-850-2-XXX-WA	43,314	309	140	
L-5-XX-850-2-XXX-WA	53,970	388	139	
L-6-XX-850-2-XXX-WA	65,243	465	140	
L-7-XX-850-2-XXX-WA	76,275	544	140	
L-8-XX-850-2-XXX-WA	87,605	618	142	

WP (White Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-WP	8,673	78	111	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-WP	13,291	116	115	
L-2-XX-850-2-XXX-WP	17,222	154	112	
L-3-30lm-XX-850-2-XXX-WP	22,684	201	113	
L-3-XX-850-2-XXX-WP	25,467	233	109	
L-4-XX-850-2-XXX-WP	34,128	309	110	
L-5-XX-850-2-XXX-WP	42,523	388	110	
L-6-XX-850-2-XXX-WP	51,405	465	111	
L-7-XX-850-2-XXX-WP	60,097	544	110	
L-8-XX-850-2-XXX-WP	69,024	618	112	

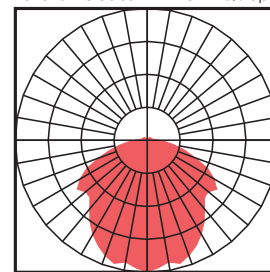
Custom lumen/wattage output available with CFO option specified. Consult Factory.

Optical Distribution Variations

NL (No Lens)
standard 120° distribution achieved when using bare LEDs with no secondary optics
Includes 0% uplight component



Lensed (CA, CP, WA, or WP)
wide/diffused optic achieved using any of our standard lenses
Clear lens includes minimum 3.4% uplight
White lens includes minimum 10% uplight



Lumen Multipliers

Lens	
Standard = CA Lens	
NL	104.3%
CA (nominal)	100.0%
CP	92.3%
WA	91.7%
WP	72.2%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance (Data Based on 5000K, 80CRI and CA Lens)

Integral EM Options

E10 (10 Watt EM)		E15 (15 Watt EM)		E20 (20 Watt EM)	
Lens Option	Delivered Lumens	Lens Option	Delivered Lumens	Lens Option	Delivered Lumens
NL	1,855	NL	2,774	NL	3,709
CA	1,778	CA	2,659	CA	3,556
CP	1,641	CP	2,454	CP	3,282
WA	1,630	WA	2,438	WA	3,261
WP	1,285	WP	1,921	WP	2,569

Field-Installable (Non-Integral) EM Options

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
NL	5,547
CA	5,318
CP	4,908
WA	4,876
WP	3,842

4' Performance - Wide Distribution (Data Based on 5000K and 80CRI)

No Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX	25,044	156	161	
L-2-36lm-XX-850-4-XXX	38,379	232	166	
L-2-XX-850-4-XXX	49,728	307	162	
L-3-XX-850-4-XXX	73,535	466	158	
L-4-XX-850-4-XXX	98,544	619	159	
L-5-XX-850-4-XXX	122,786	776	158	
L-6-XX-850-4-XXX	148,433	930	160	
L-7-XX-850-4-XXX	173,532	1,089	159	
L-8-XX-850-4-XXX	199,308	1,236	161	

CA (Clear Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-CA	24,010	156	154	
L-2-36lm-XX-850-4-XXX-CA	36,794	232	159	
L-2-XX-850-4-XXX-CA	47,674	307	155	
L-3-XX-850-4-XXX-CA	70,498	466	151	
L-4-XX-850-4-XXX-CA	94,474	619	153	
L-5-XX-850-4-XXX-CA	117,714	776	152	
L-6-XX-850-4-XXX-CA	142,302	930	153	
L-7-XX-850-4-XXX-CA	166,364	1,089	153	
L-8-XX-850-4-XXX-CA	191,076	1,236	155	

CP (Clear Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-CP	22,160	156	142	
L-2-36lm-XX-850-4-XXX-CP	33,959	232	146	
L-2-XX-850-4-XXX-CP	44,000	307	143	
L-3-XX-850-4-XXX-CP	65,065	466	140	
L-4-XX-850-4-XXX-CP	87,194	619	141	
L-5-XX-850-4-XXX-CP	108,643	776	140	
L-6-XX-850-4-XXX-CP	131,336	930	141	
L-7-XX-850-4-XXX-CP	153,544	1,089	141	
L-8-XX-850-4-XXX-CP	176,351	1,236	143	

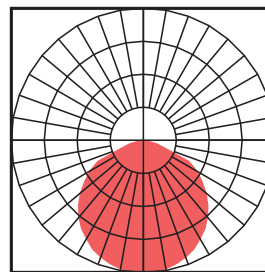
WA (White Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-WA	22,016	156	141	
L-2-36lm-XX-850-4-XXX-WA	33,739	232	146	
L-2-XX-850-4-XXX-WA	43,715	307	142	
L-3-XX-850-4-XXX-WA	64,644	466	139	
L-4-XX-850-4-XXX-WA	86,629	619	140	
L-5-XX-850-4-XXX-WA	107,939	776	139	
L-6-XX-850-4-XXX-WA	130,485	930	140	
L-7-XX-850-4-XXX-WA	152,549	1,089	140	
L-8-XX-850-4-XXX-WA	175,209	1,236	142	

WP (White Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-WP	17,347	156	111	
L-2-36lm-XX-850-4-XXX-WP	26,583	232	115	
L-2-XX-850-4-XXX-WP	34,444	307	112	
L-3-XX-850-4-XXX-WP	50,933	466	109	
L-4-XX-850-4-XXX-WP	68,256	619	110	
L-5-XX-850-4-XXX-WP	85,046	776	110	
L-6-XX-850-4-XXX-WP	102,810	930	111	
L-7-XX-850-4-XXX-WP	120,195	1,089	110	
L-8-XX-850-4-XXX-WP	138,049	1,236	112	

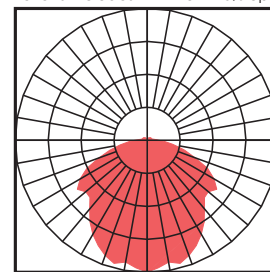
Custom lumen/wattage output available with CFO option specified. Consult Factory.

Optical Distribution Variations

NL (No Lens)
standard 120° distribution achieved when using bare LEDs with no secondary optics
Includes 0% uplight component



Lensed (CA, CP, WA, or WP)
wide/diffused optic achieved using any of our standard lenses
Clear lens includes minimum 3.4% uplight
White lens includes minimum 10% uplight



Lumen Multipliers

Lens	
Standard = CA Lens	
NL	104.3%
CA (nominal)	100.0%
CP	92.3%
WA	91.7%
WP	72.2%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance (Data Based on 5000K, 80CRI and CA Lens)

Integral EM Options

E10 (10 Watt EM)		E15 (15 Watt EM)		E20 (20 Watt EM)	
Lens Option	Delivered Lumens	Lens Option	Delivered Lumens	Lens Option	Delivered Lumens
NL	1,855	NL	2,774	NL	3,709
CA	1,778	CA	2,659	CA	3,556
CP	1,641	CP	2,454	CP	3,282
WA	1,630	WA	2,438	WA	3,261
WP	1,285	WP	1,921	WP	2,569

Field-Installable (Non-Integral) EM Options

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
NL	5,547
CA	5,318
CP	4,908
WA	4,876
WP	3,842

4' Performance - Narrow Optic (Data Based on 5000K and 80CRI)

Narrow Optic with No Lens - HO5				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-N	24,806	156	159	
L-2-36lm-XX-850-4-XXX-N	38,014	232	164	
L-2-XX-850-4-XXX-N	49,612	307	161	
L-3-XX-850-4-XXX-N	74,418	466	160	
L-4-XX-850-4-XXX-N	99,224	619	160	
L-5-XX-850-4-XXX-N	124,031	776	160	
L-6-XX-850-4-XXX-N	148,837	930	160	
L-7-XX-850-4-XXX-N	173,643	1,089	159	
L-8-XX-850-4-XXX-N	198,449	1,236	161	

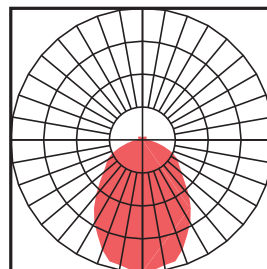
Narrow Optic with CA (Clear Acrylic) Lens - HO5				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-N-CA	22,964	156	147	
L-2-36lm-XX-850-4-XXX-N-CA	35,191	232	152	
L-2-XX-850-4-XXX-N-CA	45,928	307	149	
L-3-XX-850-4-XXX-N-CA	68,893	466	148	
L-4-XX-850-4-XXX-N-CA	91,857	619	148	
L-5-XX-850-4-XXX-N-CA	114,821	776	148	
L-6-XX-850-4-XXX-N-CA	137,785	930	148	
L-7-XX-850-4-XXX-N-CA	160,750	1,089	148	
L-8-XX-850-4-XXX-N-CA	183,714	1,236	149	

Narrow Optic with CP (Clear Polycarbonate) Lens - HO5				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-N-CP	21,195	156	136	
L-2-36lm-XX-850-4-XXX-N-CP	32,479	232	140	
L-2-XX-850-4-XXX-N-CP	42,389	307	138	
L-3-XX-850-4-XXX-N-CP	63,584	466	137	
L-4-XX-850-4-XXX-N-CP	84,778	619	137	
L-5-XX-850-4-XXX-N-CP	105,973	776	137	
L-6-XX-850-4-XXX-N-CP	127,167	930	137	
L-7-XX-850-4-XXX-N-CP	148,362	1,089	136	
L-8-XX-850-4-XXX-N-CP	169,556	1,236	137	

Optical Distribution Variations

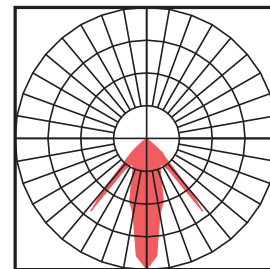
NRW + Lens

- Medium distribution achieved using narrow optic in addition to any standard lens.
- Clear lens includes minimum 2.4% uplight
 - White lens includes minimum 6% uplight



NRW Optic Only

- Narrow optic achieved using a highly reflective parabolic reflector. Includes 0% uplight component



Lumen Multipliers

Lens	
Standard = N (narrow optic) + No Lens	
N-NL (nominal)	100.0%
N-CA	92.6%
N-CP	85.4%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance (Data Based on 5000K, 80CRI and No Lens)

Integral EM Options

E10 (10 Watt EM)		E15 (15 Watt EM)		E20 (20 Watt EM)	
Lens Option	Delivered Lumens	Lens Option	Delivered Lumens	Lens Option	Delivered Lumens
N-NL	1,837	N-NL	2,747	N-NL	3,674
N-CA	1,761	N-CA	2,634	N-CA	3,522
N-CP	1,625	N-CP	2,431	N-CP	3,251

Field-Installable (Non-Integral) EM Options

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
N-NL	5,494
N-CA	5,267
N-CP	4,861

2' Length Wide Distribution ONLY

4' Length All Distributions

Standard Configurations	Other Common Configurations	Standard Configurations	Other Common Configurations
Part # L-1-SA-XXX-2-XXX • 24.75"L x 9.18"W x 2.4"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-2-XXX • 24.75"L x 2.4"W x 9.18"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SA-XXX-4-XXX • 47.81"L x 9.18"W x 2.4"H • Weight: 10 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-4-XXX • 47.81"L x 2.4"W x 9.18"H • Weight: 10 LBS 1 Bar 1 Channel 
Part # L-2-SA-XXX-2-XXX • 24.75"L x 12.18"W x 2.4"H • Weight: 7 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 10 LBS 2 Bar 2 Channel 	Part # L-2-SA-XXX-4-XXX • 47.81"L x 12.18"W x 2.4"H • Weight: 14 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-4-XXX • 47.81"L x 18.18"W x 2.4"H • Weight: 20 LBS 2 Bar 2 Channel 
Part # L-3-SA-XXX-2-XXX • 24.75"L x 15.18"W x 2.4"H • Weight: 9 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-2-XXX • 24.75"L x 21.18"W x 2.4"H • Weight: 12 LBS 3 Bar 2 Channel 	Part # L-3-SA-XXX-4-XXX • 47.81"L x 15.18"W x 2.4"H • Weight: 18 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-4-XXX • 47.81"L x 21.18"W x 2.4"H • Weight: 24 LBS 3 Bar 2 Channel 
Part # L-4-SA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 11 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-2-XXX • 24.75"L x 24.18"W x 2.4"H • Weight: 14 LBS 4 Bar 2 Channel 	Part # L-4-SA-XXX-4-XXX • 47.81"L x 18.18"W x 2.4"H • Weight: 22 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-4-XXX • 47.81"L x 24.18"W x 2.4"H • Weight: 28 LBS 4 Bar 2 Channel 
Part # L-5-DA-XXX-2-XXX • 24.75"L x 27.18"W x 2.4"H • Weight: 16 LBS 5 Bar 2 Channel 		Part # L-5-DA-XXX-4-XXX • 47.81"L x 27.18"W x 2.4"H • Weight: 32 LBS 5 Bar 2 Channel 	
Part # L-6-DA-XXX-2-XXX • 24.75"L x 30.18"W x 2.4"H • Weight: 18 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-2-XXX • 24.75"L x 36.18"W x 2.4"H • Weight: 21 LBS 6 Bar 3 Channel 	Part # L-6-DA-XXX-4-XXX • 47.81"L x 30.18"W x 2.4"H • Weight: 34 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-4-XXX • 47.81"L x 36.18"W x 2.4"H • Weight: 40 LBS 6 Bar 3 Channel 
Part # L-7-TA-XXX-2-XXX • 24.75"L x 39.18"W x 2.4"H • Weight: 23 LBS 7 Bar 3 Channel 		Part # L-7-TA-XXX-4-XXX • 47.81"L x 39.18"W x 2.4"H • Weight: 44 LBS 7 Bar 3 Channel 	
Part # L-8-TA-XXX-2-XXX • 24.75"L x 42.18"W x 2.4"H • Weight: 25 LBS 8 Bar 3 Channel 		Part # L-8-TA-XXX-4-XXX • 47.81"L x 42.18"W x 2.4"H • Weight: 48 LBS 8 Bar 3 Channel 	

2' Performance - Narrow Optic (HO7) ONLY Offered with 840 and 850 Options (Data Based on 5000K and 80CRI)

Injection-Molded Narrow Optic				
Delivered Lumens @ 5000K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-850-2-XXX-N	10,005	69	145
	L-2-18lm-XX-850-2-XXX-N	17,852	116	154
	L-2-XX-850-2-XXX-N	20,253	134	151
	L-3-XX-850-2-XXX-N	30,136	200	150
	L-4-36lm-XX-850-2-XXX-N	35,704	232	154
	L-4-XX-850-2-XXX-N	40,717	271	150
	L-5-XX-850-2-XXX-N	50,145	337	149
	L-6-XX-850-2-XXX-N	60,200	400	150
	L-7-XX-850-2-XXX-N	70,349	473	149
	L-8-XX-850-2-XXX-N	80,251	538	149

Custom lumen/wattage output available with CFO option specified. Consult Factory.

Lumen Multipliers

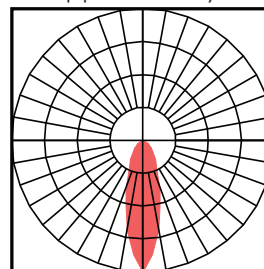
CCT	
Standard = 5000K CCT	
5000K (nominal)	100.0%
4000K	100.0%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%

Optical Distribution

NRW Optic

Narrow optic achieved using a molded-acrylic, prismatic optic. Includes approximately 0% uplight.



Emergency Battery Performance

(Data Based on 5000K and 80CRI)

Integral EM Options

Field-Installable (Non-Integral) EM Options

E10 (10 Watt EM)	
Lens Option	Delivered Lumens
N	1,546

E15 (15 Watt EM)	
Lens Option	Delivered Lumens
N	2,311

E20 (20 Watt EM)	
Lens Option	Delivered Lumens
N	3,091

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
N	4,623

2' Performance - Narrow Optic (HO5) ONLY Offered with 835 and 90CRI Options (Data Based on 3500K and 80CRI)

Narrow Optic with No Lens - HO5				
Delivered Lumens @ 3500K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-835-2-XXX-N	12,042	78	154
	L-2-18lm-XX-835-2-XXX-N	18,453	116	159
	L-2-XX-835-2-XXX-N	24,084	154	157
	L-3-30lm-XX-835-2-XXX-N	30,798	201	153
	L-3-XX-835-2-XXX-N	36,125	233	155
	L-4-XX-835-2-XXX-N	48,167	309	156
	L-5-XX-835-2-XXX-N	60,209	388	155
	L-6-XX-835-2-XXX-N	72,251	465	155
	L-7-XX-835-2-XXX-N	84,293	544	155
	L-8-XX-835-2-XXX-N	96,334	618	156

Narrow Optic with CA (Clear Acrylic) Lens - HO5				
Delivered Lumens @ 3500K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-835-2-XXX-N-CA	11,544	78	148
	L-2-18lm-XX-835-2-XXX-N-CA	17,691	116	153
	L-2-XX-835-2-XXX-N-CA	23,089	154	150
	L-3-30lm-XX-835-2-XXX-N-CA	29,526	201	147
	L-3-XX-835-2-XXX-N-CA	34,633	233	149
	L-4-XX-835-2-XXX-N-CA	46,178	309	149
	L-5-XX-835-2-XXX-N-CA	57,722	388	149
	L-6-XX-835-2-XXX-N-CA	69,266	465	149
	L-7-XX-835-2-XXX-N-CA	80,811	544	148
	L-8-XX-835-2-XXX-N-CA	92,355	618	149

Narrow Optic with CP (Clear Polycarbonate) Lens - HO5				
Delivered Lumens @ 3500K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-835-2-XXX-N-CP	10,655	78	137
	L-2-18lm-XX-835-2-XXX-N-CP	16,328	116	141
	L-2-XX-835-2-XXX-N-CP	21,310	154	139
	L-3-30lm-XX-835-2-XXX-N-CP	27,250	201	136
	L-3-XX-835-2-XXX-N-CP	31,964	233	137
	L-4-XX-835-2-XXX-N-CP	42,619	309	138
	L-5-XX-835-2-XXX-N-CP	53,274	388	137
	L-6-XX-835-2-XXX-N-CP	63,929	465	138
	L-7-XX-835-2-XXX-N-CP	74,583	544	137
	L-8-XX-835-2-XXX-N-CP	85,238	618	138

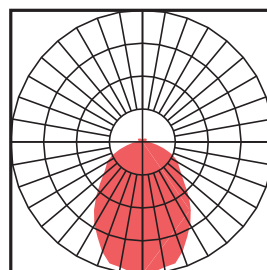
Custom lumen/wattage output available with CFO option specified. Consult Factory.

Optical Distribution Variations

NRW + Lens

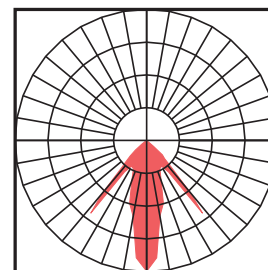
Medium distribution achieved using narrow optic in addition to any standard lens.

- Clear lens includes minimum 2.4% uplight
- White lens includes minimum 6% uplight



NRW Optic Only

Narrow optic achieved using a highly reflective parabolic reflector. Includes 0% uplight component



Lumen Multipliers

Lens	
Standard = N (narrow optic) + No Lens	
N-NL (nominal)	100.0%
N-CA	92.6%
N-CP	85.4%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance

(Data Based on 3500K, 80CRI and No Lens)

Integral EM Options

Field-Installable (Non-Integral) EM Options

E10 (10 Watt EM)	
Lens Option	Delivered Lumens
N-NL	1,783
N-CA	1,710
N-CP	1,578

E15 (15 Watt EM)	
Lens Option	Delivered Lumens
N-NL	2,667
N-CA	2,557
N-CP	2,360

E20 (20 Watt EM)	
Lens Option	Delivered Lumens
N-NL	3,567
N-CA	3,420
N-CP	3,156

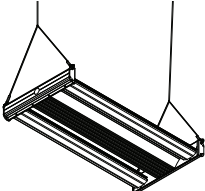

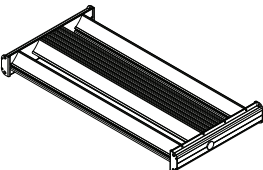
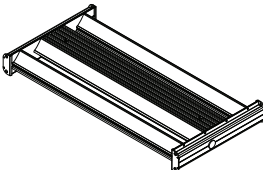
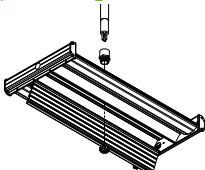
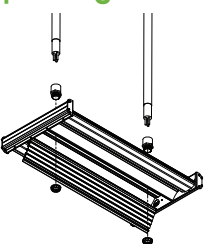
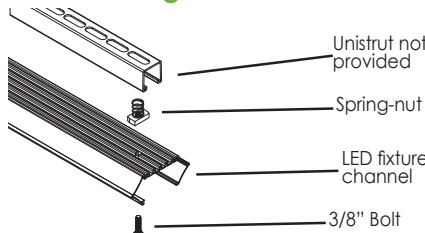
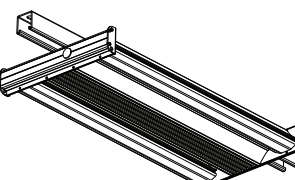
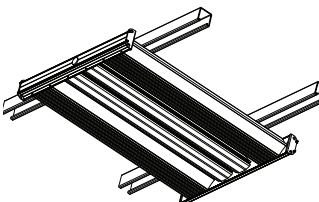
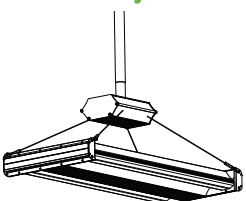
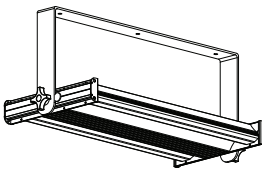
E30 (30 Watt EM)	
Lens Option	Delivered Lumens
N-NL	5,334
N-CA	5,114
N-CP	4,720

2' Length Narrow Optic 840 and 850 Options ONLY

2' Length Narrow Optic 835 and 90CRI Options ONLY

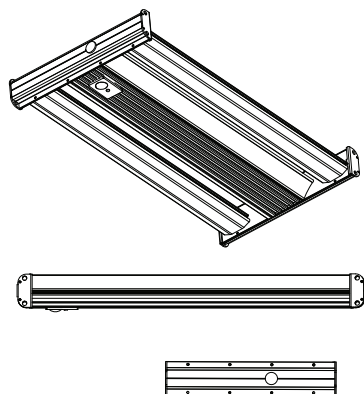
Standard Configurations	Other Common Configurations	Standard Configurations	Other Common Configurations
Part # L-1-SA-XXX-2-XXX-N • 24.14"L x 9.18"W x 2.4"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-2-XXX-N • 24.14"L x 2.4"W x 9.18"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SA-XXX-2-XXX • 24.75"L x 9.18"W x 2.4"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-2-XXX • 24.75"L x 2.4"W x 9.18"H • Weight: 5 LBS 1 Bar 1 Channel 
Part # L-2-SA-XXX-2-XXX-N • 24.14"L x 12.18"W x 2.4"H • Weight: 7 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-2-XXX-N • 24.14"L x 18.18"W x 2.4"H • Weight: 10 LBS 2 Bar 2 Channel 	Part # L-2-SA-XXX-2-XXX • 24.75"L x 12.18"W x 2.4"H • Weight: 7 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 10 LBS 2 Bar 2 Channel 
Part # L-3-SA-XXX-2-XXX-N • 24.14"L x 15.18"W x 2.4"H • Weight: 9 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-2-XXX-N • 24.14"L x 21.18"W x 2.4"H • Weight: 12 LBS 3 Bar 2 Channel 	Part # L-3-SA-XXX-2-XXX • 24.75"L x 15.18"W x 2.4"H • Weight: 9 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-2-XXX • 24.75"L x 21.18"W x 2.4"H • Weight: 12 LBS 3 Bar 2 Channel 
Part # L-4-SA-XXX-2-XXX-N • 24.14"L x 18.18"W x 2.4"H • Weight: 11 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-2-XXX-N • 24.14"L x 24.18"W x 2.4"H • Weight: 14 LBS 4 Bar 2 Channel 	Part # L-4-SA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 11 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-2-XXX • 24.75"L x 24.18"W x 2.4"H • Weight: 14 LBS 4 Bar 2 Channel 
Part # L-5-DA-XXX-2-XXX-N • 24.14"L x 27.18"W x 2.4"H • Weight: 16 LBS 5 Bar 2 Channel 		Part # L-5-DA-XXX-2-XXX • 24.75"L x 27.18"W x 2.4"H • Weight: 16 LBS 5 Bar 2 Channel 	
Part # L-6-DA-XXX-2-XXX-N • 24.14"L x 30.18"W x 2.4"H • Weight: 18 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-2-XXX-N • 24.14"L x 36.18"W x 2.4"H • Weight: 21 LBS 6 Bar 3 Channel 	Part # L-6-DA-XXX-2-XXX • 24.75"L x 30.18"W x 2.4"H • Weight: 18 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-2-XXX • 24.75"L x 36.18"W x 2.4"H • Weight: 21 LBS 6 Bar 3 Channel 
Part # L-7-TA-XXX-2-XXX-N • 24.14"L x 39.18"W x 2.4"H • Weight: 23 LBS 7 Bar 3 Channel 		Part # L-7-TA-XXX-2-XXX • 24.75"L x 39.18"W x 2.4"H • Weight: 23 LBS 7 Bar 3 Channel 	
Part # L-8-TA-XXX-2-XXX-N • 24.14"L x 42.18"W x 2.4"H • Weight: 25 LBS 8 Bar 3 Channel 		Part # L-8-TA-XXX-2-XXX • 24.75"L x 42.18"W x 2.4"H • Weight: 25 LBS 8 Bar 3 Channel 	

Mounting Options

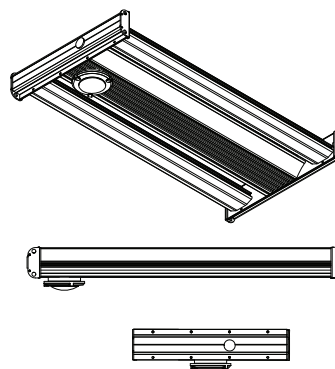
Cable Mount	Surface Mount
<p>2-point Y-cable mount</p>  <p>Part Numbers: 10Y, 20Y, 30Y</p> <p>Description:</p> <ul style="list-style-type: none"> • "10", "20", "30" represents length in feet • Galvanized steel cable and hook <p>4-point cable mount</p>  <p>Part Numbers: 4P10, 4P20 4P10S, 4P20S</p> <p>Description:</p> <ul style="list-style-type: none"> • "10", "20", "30" represents length in feet • "S" in part number denotes natatorium-grade 316 stainless steel, recommended for natatoriums and other caustic environments 	<p>Surface mounting (no additional hardware or mounting holes supplied)</p>  <p>Part Number: SM</p> <p>Description:</p> <ul style="list-style-type: none"> • Fixture may be anchored flush to any suitable substrate through electronics channel • No additional hanging hardware provided <p>Surface mount - 3/8" mounting holes supplied</p>  <p>Part Number: SMH</p> <p>Description:</p> <ul style="list-style-type: none"> • Fixture may be anchored to any suitable substrate through electronics channel • (2) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion
Stem Mount	Unistrut Mount
<p>1-point rigid stem mount</p>  <p>Part Numbers: MH1 MH1S</p> <p>Description:</p> <ul style="list-style-type: none"> • 3/4" IP threaded hub to mount to 3/4" conduit or stem (other hub diameters available, contact factory for options) • Galvanized steel is standard, for stainless steel use "s" in part number • Stem/threaded rod not provided • Not available on all models and options • Power feed may be routed through stem or through fixture's endcap • Cord NOT installed when power feed is routed through stem <p>2-point rigid stem mount</p>  <p>Part Numbers: MH2 MH2S</p> <p>Description:</p> <ul style="list-style-type: none"> • 3/4" IP threaded hub to mount to 3/4" conduit or stem (other hub diameters available, contact factory for options) • Galvanized steel is standard, for stainless steel use "s" at end of part number • Stem/threaded rod not provided • Not available on all models and options • Power feed may be routed through stem or through fixture's endcap • Cord NOT installed when power feed is routed through stem 	<p>Unistrut mounting detail</p>  <p>Unistrut not provided Spring-nut LED fixture channel 3/8" Bolt</p> <p>2-point Unistrut hardware</p>  <p>Part Number: UM2</p> <p>Description:</p> <ul style="list-style-type: none"> • Unistrut hardware includes (2) sets of 3/8" diameter spring-nuts, bolts, mounting holes provided • (2) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion <p>4-point Unistrut hardware</p>  <p>Part Number: UM4</p> <p>Description:</p> <ul style="list-style-type: none"> • Unistrut hardware includes (4) sets of 3/8" diameter spring-nuts, bolts, mounting holes provided • (4) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion
Threaded junction box for single point mount	Yoke Mount
 <p>Part Number for 3' Cable Lengths: SPM3'</p> <p>Part Number for 5' Cable Lengths: SPM5'</p> <p>Description:</p> <ul style="list-style-type: none"> • 3/4" IP threaded hub attached to 3" x 6" x 6" junction box with (4) fixed-length cables (3' and 5') for fixture mounting • Power cord ordered separately 	<p>Yoke Mount</p>  <p>Part Number: YKX ("x" to change based on fixture)</p> <p>Description:</p> <ul style="list-style-type: none"> • Adjustable yoke mount allows for ceiling or wall mounting • Power cord ordered separately • Yoke mount is installed on the fixture before shipping • Hardware to secure mount to structural surface NOT provided • Not suitable for WET locations

120-277V Sensors

OC



DO

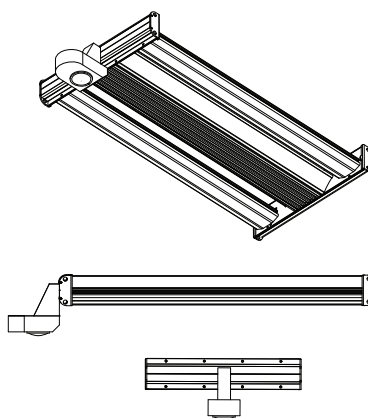


OC	
120V-277V Occupancy Sensor (On/Off)	
Control Type	Occupancy-PIR (line voltage)
Ambient Temperature	0°C to 55°C
Mounting Height	15' to 40'
Coverage Area	Suggested: 1 to 1 spacing to mounting height ratio

DO	
120V-277V Daylight Harvesting and Occupancy Sensor (On/Off and 0-10V Dimming)	
Control Type	Occupancy-PIR (line voltage & 0-10V) DLH-Photocell (line voltage & 0-10V)
Ambient Temperature	-40°C to 70°C
Mounting Height	8' to 40'
Coverage Area	100' diameter (@ 40' Mounting Height)

347-480V Sensor

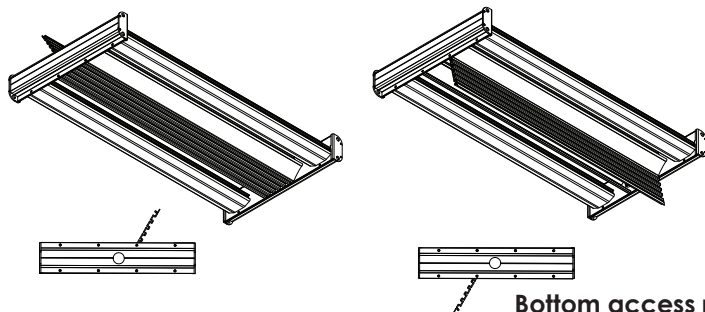
OCKH/DOKH



OCKH	
347V-480V Occupancy Sensor (On/Off)	
Control Type	Occupancy-PIR (line voltage & 0-10V)
Ambient Temperature	-10°C to 60°C
Mounting Height	15' to 45'
Coverage Area	15' to 20' radial coverage (30'-40' diameter) typical

DOKH	
347V-480V Daylight Harvesting and Occupancy Sensor (On/Off and 0-10V Dimming)	
Control Type	Occupancy-PIR (line voltage & 0-10V) DLH-Photocell (line voltage & 0-10V)
Ambient Temperature	-10°C to 60°C
Mounting Height	15' to 45'
Coverage Area	15' to 20' radial coverage (30'-40' diameter) typical

Electronics Channel Access



Top Access: Channels open from above the fixture. The driver chamber can be accessed as if it were sitting on a table.

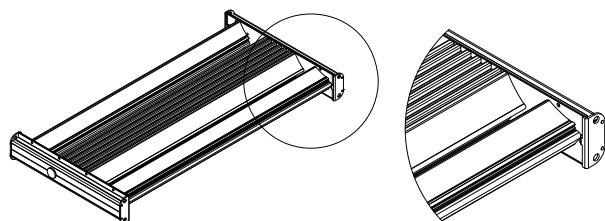
To specify "Top Access", use part number:
"T"

Bottom Access: Channels open from below the fixture. The driver chamber is accessed from above the installer.

To specify "Bottom Access", use part number:
"B"

Bottom access required for wet location

Independently Rotatable LED Bars



Rotatable Bars: Each LED bar can be rotated independently in manufacturing process or in the field. Contact factory for more options.

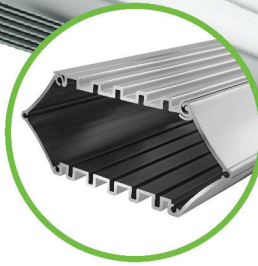
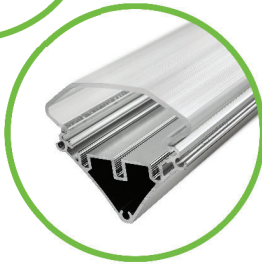
To specify "Rotatable Bars", add part number:
"R"

Fixed BARs required for gym and high abuse environments



Series - High Lumen Family - Specification Sheet

The LUX IK10+ series features **COMPETITIVE EFFICACY** across a **BROAD LUMEN RANGE**. We build the IK10+ from durable **6463 EXTRUDED ALUMINUM** making it beautiful while maintaining terrific **STABILITY** and **LONGEVITY**.



Performance

- Lumen output: **8,700 up to 200,000 lumens, approx.**
- Efficacy: **Up to 166 Lumens per Watt**
- L_{70} (per TM-21): **72,000 Hours**
- L_{70} (calculated): **147,000 Hours**
- Ambient Temp. Rating: **-40°F to 150°F (-40°C to 65.5°C)**
Ambient temperature rating varies for auxiliary components
- Surge Protection: **6kV (10kV Option Available)**

Construction

- Extruded 6463 aluminum construction
- Stainless-steel hardware
- Bright dip anodized fixture body
- Isolated driver channels
- Thermally independent heat sink LED bars

Listing and Ratings

- UL 1598 for Dry, Damp, and Wet Locations
- ARRA/BAA Compliant (Made in America)
- BABA Compliant Options Available, Consult Factory
- IP55 Rated
- UL EPH Listed - NSF Rated
- 3G Vibration Rated
- Exceeds IK10 impact rating with polycarbonate lens
- IK10 rating does not apply to acrylic lenses

Warranty

- 10-Year Warranty on fixture body
- 5-Year Warranty on electronics
- For special requests, contact Factory

Applications

- Gymnasiums/Sports Facilities
- Warehouses
- Manufacturing/Industrial
- Arenas/Fieldhouses
- Natatoriums
- Hangars

Installation

- Aircraft cable suspension
- Surface mounting
- Rigid pendant mounting (with or without powerfeed)
- Adjustable yoke mount
- Tandem mounting available
- Custom mounts available, contact Factory

Optics

- Wide 120° beam angle LEDs
- Optional narrow optic for aisle or racking applications
- LED bars are rotatable to allow for custom distributions
- Diffusing lens available in clear and visually comfortable white
- Acrylic and polycarbonate lens materials available
- Lens offers up to 10% uplight

QuickShip

IK10+ Quick Ship Available
Visit: www.luxdynamics.com



Example Catalog Number:

L 3 D A 850 2 U10

		Delivered lumens with 5000K color / Standard Distribution / CA lens		Some options may require additional driver channels in order to function. Consult Factory.		Defines the order of channels and BARs in the fixture frame. Please see configuration chart on specification sheet.		DLC listing for 850 and 840 color temperature. Other color temperatures available. Consult factory.		Typical fixture lengths shown below. Dimensions shown on pages 5 and 6. Fixture length affects lumen output.		Other driver options available. Consult Factory.			
Series		Number of BARS L series only		Number of Channels		Fixture Configuration		CRI / CCT		Length		Voltage and Dimming			
L High Lumen		2' length	4' length	S D T Q	Single Double Triple Quad	A B C ...	A defines standard configuration.	865	80CRI	6500K	2' 2" (24.75") Standard (24.14") Narrow 4' 4" (47.81") Standard (46.34") Narrow	U10 U1 H10 H1 DALI DMX DP10	120-277V 120-277V 347/480V 347/480V 120-277V 120-277V 277-480V	0-10V dimming 0-10V dimming 0-10V dimming 0-10V dimming DALI control DMX control 0-10V dimming	10% min. 1% min. 10% min. 1% min.
	1	12,005lm	24,010lm					857	80CRI	5700K					
	2-18lm	18,397lm	N/A					850	80CRI	5000K					
	2-36lm	N/A	36,794lm					840	80CRI	4000K					
	2	23,837lm	47,674lm					835	80CRI	3500K					
	3-30lm	31,397lm	N/A					830	80CRI	3000K					
	3	35,249lm	70,498lm					827	80CRI	2700K					
	4	47,237lm	94,474lm					950	90CRI	5000K					
	5	58,857lm	117,714lm					940	90CRI	4000K					
	6	71,151lm	142,302lm					935	90CRI	3500K					
	7	83,182lm	166,364lm					927	90CRI	2700K					
8	95,538lm	191,076lm	TW Tunable White RGBW RBG with 935 GREYED options not stocked and may need additional lead time			Dimming curves and other operating characteristics may vary between models									

Some CRI, CCT and other output variations may affect DLC listing; contact LUX for further information.

Options and Accessories

Distribution

(leave blank) General Distribution

N Narrow optics

Narrow optic options vary

See page 6 and 8 for all narrow optic options

Lensing

(leave blank) No Lensing, bare LEDs

CA Clear acrylic diffuse lens

WA White acrylic diffuse lens

CP Clear polycarbonate diffuse lens

WP White polycarbonate diffuse lens

"2" or "4" denotes fixture length

Recommended (leave blank) with N distribution option

Recommended WA or WP options for visual comfort

DLC listing for CA, CP, and (leave blank) options

Channel Access

T Lid opens from above fixture

B Lid opens from below fixture

Some options, including controls and mounting

types, may require specific access, consult Factory for further information

Cord

(leave blank) No cord provided

3/10 3-wire, 10' cord Standard white

4/10 4-wire, 10' cord Standard white

5/10 5-wire, 10' cord Standard white

6/10 6-wire, 10' cord Standard white

Other cord lengths and multi-circuit wiring available

1st digit: Number of wires, including ground, available from 3 through 6

2nd digit: Overall length, including strips, available from 10' through 30'

Emergency

E10 10-watt integral emergency battery
(CA Title-20 compliant)

E15 15-watt integral emergency battery
(CA Title-20 compliant)

E20 20-watt integral emergency battery
(CA Title-20 compliant) not available on all configurations, consult Factory

E20R 20-watt non-integral emergency battery
(CA Title-20 compliant) **must be field-installed**

E30R 30-watt non-integral emergency battery
(CA Title-20 compliant) **must be field-installed**

Remote Mounting

(leave blank) Standard integral driver(s)

RMS Remote mount driver(s) - surface mount

RMC Remote mount driver(s) - cable mount

RNK Remote mount driver(s) - no enclosure kit provided

Restrictions may apply for certain applications, consult Factory

Lumen/Wattage Output

CFO Custom fixture output (specify custom lumen output or wattage lower than standard)

Direction of Light

(leave blank) BARs aimed down

I BARs aimed up

C Custom aiming

Consult with Factory for option "C"

BAR Locking

(leave blank) BARs fixed

R BARs rotatable (Not suitable for WET locations)

Recommended FIXED (BLANK) in high-abuse environments

Options and Accessories Continued

Mounting

(leave blank)	No mounting hardware provided
10Y	Y-hanger AC cable up to 11' length, snap hook
4P10	4-point AC cable up to 10' length, hook
4P10S	Stainless steel 4-point AC cable up to 10' length, hook
SPM	Adapter to suspend luminaire below existing stem
MH1	Myer's hub 1-point, 3/4" GRC adapter, Galv. Steel
MH2	Myer's hub 2-point, 3/4" GRC adapter, Galv. Steel
MH1S	Myer's hub 1-point, 3/4" GRC adapter, stainless-steel
MH2S	Myer's hub 2-point, 3/4" GRC adapter, stainless-steel
SM	Surface mount, no machining or hardware provided
SMH	Surface mount, incl. pre-machined mounting points
UM2	Unistrut mount, includes (2) points of mounting, suitable for mounting to single strut.
UM4	Unistrut mount, includes (4) points of mounting, suitable for mounting to (2) struts.
YK	Yoke mount, adjustable trunnion (Not suitable for WET locations)

Mounting via Aircraft Cable suitable for Static Loads only. If fixtures are subject to movement or mounting substrate is prone to instability, rigid mounting is required. Suitable mounting styles include: MH1, MH2, MH1S, MH2S, SM, SMH, UM2, UM4, AND YOKE (YK).

Some mounting options may require specific channel access.

Additional cable lengths available, consult Factory

Finish

(leave blank)	Standard natatorium-grade bright dip anodized aluminum and green hanging brackets, shown on specification sheet
M	Silver stainless-steel hanging brackets (no green). Standard bright dip anodized aluminum body
PC	Custom color by powdercoat. Must specify RAL number and components to be finished
BLKG	Glossy black finish on all components
BLKM	Matte black finish on all components

Custom color anodized aluminum available in 2' configurations, consult Factory.

Controls

OC	Integral on/off occupancy sensor (120-277V)
DO	Integral high/low/off occupancy and daylight harvesting sensor (120-277V)
OCKH	High voltage (347/480V) knockout-mounted on/off occupancy sensor, not installed
DOKH	High voltage (347/480V) knockout-mounted high/low/off occupancy and daylight harvesting sensor, not installed
Wireless Controls	Multiple wireless control systems available. Contact Factory for options and details

LUX is controls-agnostic and can use most requested control systems

Application (Select all that apply)

GEN	General applications (Not rated for WET, NSF, or high abuse environments)
WET	Wet location (Includes conformal coated LED modules, HOS)
COR*	Caustic/natatorium environments (Includes conformal coated LED modules, HOS)
NSF	EPH rated for food-safe applications
TC	Tennis court (Polycarbonate lensing recommended)
MFG	Manufacturing or industrial
WHS	Warehousing or storage
HNG	Hangar
GYM	Gymnasium or sports court (Polycarbonate lensing required)
AFH	Arena or fieldhouse (Polycarbonate lensing recommended)
ARCH	Architectural (White lensing recommended)
ICE	Ice rink (Polycarbonate lensing recommended)
GAR	Garage or canopy
FRZ	Freezer or cold storage
HT	High temp, 55°C/131°F or higher (E-Series recommended)

*COR application not suitable for all caustic environments, consult Factory

Lensing and Bottom Access required for WET, COR, and EPH/NSF applications

Consult Factory for cost adders for WET, COR and EPH/NSF applications

2' Performance - Wide Distribution (Data Based on 5000K and 80CRI)

No Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX	12,522	78	161	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX	19,190	116	166	
L-2-XX-850-2-XXX	24,864	154	162	
L-3-30lm-XX-850-2-XXX	32,750	201	163	
L-3-XX-850-2-XXX	36,768	233	158	
L-4-XX-850-2-XXX	49,272	309	159	
L-5-XX-850-2-XXX	61,393	388	158	
L-6-XX-850-2-XXX	74,216	465	160	
L-7-XX-850-2-XXX	86,766	544	159	
L-8-XX-850-2-XXX	99,654	618	161	

CA (Clear Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-CA	12,005	78	154	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-CA	18,397	116	159	
L-2-XX-850-2-XXX-CA	23,837	154	155	
L-3-30lm-XX-850-2-XXX-CA	31,397	201	156	
L-3-XX-850-2-XXX-CA	35,249	233	151	
L-4-XX-850-2-XXX-CA	47,237	309	153	
L-5-XX-850-2-XXX-CA	58,857	388	152	
L-6-XX-850-2-XXX-CA	71,151	465	153	
L-7-XX-850-2-XXX-CA	83,182	544	153	
L-8-XX-850-2-XXX-CA	95,538	618	155	

CP (Clear Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-CP	11,080	78	142	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-CP	16,979	116	146	
L-2-XX-850-2-XXX-CP	22,000	154	143	
L-3-30lm-XX-850-2-XXX-CP	28,977	201	144	
L-3-XX-850-2-XXX-CP	32,533	233	140	
L-4-XX-850-2-XXX-CP	43,597	309	141	
L-5-XX-850-2-XXX-CP	54,321	388	140	
L-6-XX-850-2-XXX-CP	65,668	465	141	
L-7-XX-850-2-XXX-CP	76,772	544	141	
L-8-XX-850-2-XXX-CP	88,176	618	143	

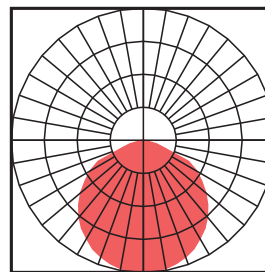
WA (White Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-WA	11,008	78	141	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-WA	16,869	116	146	
L-2-XX-850-2-XXX-WA	21,858	154	142	
L-3-30lm-XX-850-2-XXX-WA	28,790	201	143	
L-3-XX-850-2-XXX-WA	32,322	233	139	
L-4-XX-850-2-XXX-WA	43,314	309	140	
L-5-XX-850-2-XXX-WA	53,970	388	139	
L-6-XX-850-2-XXX-WA	65,243	465	140	
L-7-XX-850-2-XXX-WA	76,275	544	140	
L-8-XX-850-2-XXX-WA	87,605	618	142	

WP (White Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-2-XXX-WP	8,673	78	111	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-18lm-XX-850-2-XXX-WP	13,291	116	115	
L-2-XX-850-2-XXX-WP	17,222	154	112	
L-3-30lm-XX-850-2-XXX-WP	22,684	201	113	
L-3-XX-850-2-XXX-WP	25,467	233	109	
L-4-XX-850-2-XXX-WP	34,128	309	110	
L-5-XX-850-2-XXX-WP	42,523	388	110	
L-6-XX-850-2-XXX-WP	51,405	465	111	
L-7-XX-850-2-XXX-WP	60,097	544	110	
L-8-XX-850-2-XXX-WP	69,024	618	112	

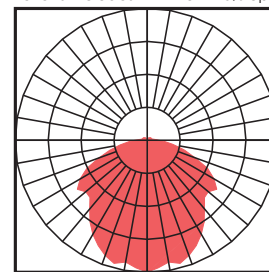
Custom lumen/wattage output available with CFO option specified. Consult Factory.

Optical Distribution Variations

NL (No Lens)
standard 120° distribution achieved when using bare LEDs with no secondary optics
Includes 0% uplight component



Lensed (CA, CP, WA, or WP)
wide/diffused optic achieved using any of our standard lenses
Clear lens includes minimum 3.4% uplight
White lens includes minimum 10% uplight



Lumen Multipliers

Lens	
Standard = CA Lens	
NL	104.3%
CA (nominal)	100.0%
CP	92.3%
WA	91.7%
WP	72.2%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance (Data Based on 5000K, 80CRI and CA Lens)

Integral EM Options

E10 (10 Watt EM)	
Lens Option	Delivered Lumens
NL	1,855
CA	1,778
CP	1,641
WA	1,630
WP	1,285

E15 (15 Watt EM)	
Lens Option	Delivered Lumens
NL	2,774
CA	2,659
CP	2,454
WA	2,438
WP	1,921

E20 (20 Watt EM)	
Lens Option	Delivered Lumens
NL	3,709
CA	3,556
CP	3,282
WA	3,261
WP	2,569

Field-Installable (Non-Integral) EM Options

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
NL	5,547
CA	5,318
CP	4,908
WA	4,876
WP	3,842

4' Performance - Wide Distribution (Data Based on 5000K and 80CRI)

No Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX	25,044	156	161	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-36lm-XX-850-4-XXX	38,379	232	166	
L-2-XX-850-4-XXX	49,728	307	162	
L-3-XX-850-4-XXX	73,535	466	158	
L-4-XX-850-4-XXX	98,544	619	159	
L-5-XX-850-4-XXX	122,786	776	158	
L-6-XX-850-4-XXX	148,433	930	160	
L-7-XX-850-4-XXX	173,532	1,089	159	
L-8-XX-850-4-XXX	199,308	1,236	161	

CA (Clear Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-CA	24,010	156	154	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-36lm-XX-850-4-XXX-CA	36,794	232	159	
L-2-XX-850-4-XXX-CA	47,674	307	155	
L-3-XX-850-4-XXX-CA	70,498	466	151	
L-4-XX-850-4-XXX-CA	94,474	619	153	
L-5-XX-850-4-XXX-CA	117,714	776	152	
L-6-XX-850-4-XXX-CA	142,302	930	153	
L-7-XX-850-4-XXX-CA	166,364	1,089	153	
L-8-XX-850-4-XXX-CA	191,076	1,236	155	

CP (Clear Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-CP	22,160	156	142	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-36lm-XX-850-4-XXX-CP	33,959	232	146	
L-2-XX-850-4-XXX-CP	44,000	307	143	
L-3-XX-850-4-XXX-CP	65,065	466	140	
L-4-XX-850-4-XXX-CP	87,194	619	141	
L-5-XX-850-4-XXX-CP	108,643	776	140	
L-6-XX-850-4-XXX-CP	131,336	930	141	
L-7-XX-850-4-XXX-CP	153,544	1,089	141	
L-8-XX-850-4-XXX-CP	176,351	1,236	143	

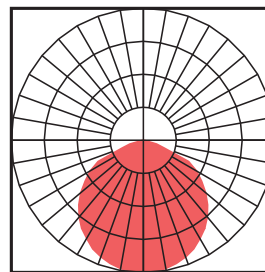
WA (White Acrylic) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-WA	22,016	156	141	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-36lm-XX-850-4-XXX-WA	33,739	232	146	
L-2-XX-850-4-XXX-WA	43,715	307	142	
L-3-XX-850-4-XXX-WA	64,644	466	139	
L-4-XX-850-4-XXX-WA	86,629	619	140	
L-5-XX-850-4-XXX-WA	107,939	776	139	
L-6-XX-850-4-XXX-WA	130,485	930	140	
L-7-XX-850-4-XXX-WA	152,549	1,089	140	
L-8-XX-850-4-XXX-WA	175,209	1,236	142	

WP (White Polycarbonate) Lens				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-WP	17,347	156	111	Delivered Lumens @ 5000K, 80 CRI, High Lumen
L-2-36lm-XX-850-4-XXX-WP	26,583	232	115	
L-2-XX-850-4-XXX-WP	34,444	307	112	
L-3-XX-850-4-XXX-WP	50,933	466	109	
L-4-XX-850-4-XXX-WP	68,256	619	110	
L-5-XX-850-4-XXX-WP	85,046	776	110	
L-6-XX-850-4-XXX-WP	102,810	930	111	
L-7-XX-850-4-XXX-WP	120,195	1,089	110	
L-8-XX-850-4-XXX-WP	138,049	1,236	112	

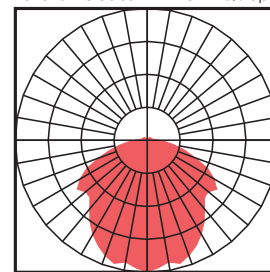
Custom lumen/wattage output available with CFO option specified. Consult Factory.

Optical Distribution Variations

NL (No Lens)
standard 120° distribution achieved when using bare LEDs with no secondary optics
Includes 0% uplight component



Lensed (CA, CP, WA, or WP)
wide/diffused optic achieved using any of our standard lenses
Clear lens includes minimum 3.4% uplight
White lens includes minimum 10% uplight



Lumen Multipliers

Lens	
Standard = CA Lens	
NL	104.3%
CA (nominal)	100.0%
CP	92.3%
WA	91.7%
WP	72.2%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance (Data Based on 5000K, 80CRI and CA Lens)

Integral EM Options

E10 (10 Watt EM)	
Lens Option	Delivered Lumens
NL	1,855
CA	1,778
CP	1,641
WA	1,630
WP	1,285

E15 (15 Watt EM)	
Lens Option	Delivered Lumens
NL	2,774
CA	2,659
CP	2,454
WA	2,438
WP	1,921

E20 (20 Watt EM)	
Lens Option	Delivered Lumens
NL	3,709
CA	3,556
CP	3,282
WA	3,261
WP	2,569

Field-Installable (Non-Integral) EM Options

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
NL	5,547
CA	5,318
CP	4,908
WA	4,876
WP	3,842

4' Performance - Narrow Optic (Data Based on 5000K and 80CRI)

Narrow Optic with No Lens - HO5				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-N	24,806	156	159	
L-2-36lm-XX-850-4-XXX-N	38,014	232	164	
L-2-XX-850-4-XXX-N	49,612	307	161	
L-3-XX-850-4-XXX-N	74,418	466	160	
L-4-XX-850-4-XXX-N	99,224	619	160	
L-5-XX-850-4-XXX-N	124,031	776	160	
L-6-XX-850-4-XXX-N	148,837	930	160	
L-7-XX-850-4-XXX-N	173,643	1,089	159	
L-8-XX-850-4-XXX-N	198,449	1,236	161	

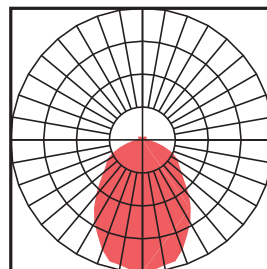
Narrow Optic with CA (Clear Acrylic) Lens - HO5				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-N-CA	22,964	156	147	
L-2-36lm-XX-850-4-XXX-N-CA	35,191	232	152	
L-2-XX-850-4-XXX-N-CA	45,928	307	149	
L-3-XX-850-4-XXX-N-CA	68,893	466	148	
L-4-XX-850-4-XXX-N-CA	91,857	619	148	
L-5-XX-850-4-XXX-N-CA	114,821	776	148	
L-6-XX-850-4-XXX-N-CA	137,785	930	148	
L-7-XX-850-4-XXX-N-CA	160,750	1,089	148	
L-8-XX-850-4-XXX-N-CA	183,714	1,236	149	

Narrow Optic with CP (Clear Polycarbonate) Lens - HO5				
Model	Delivered Lumens	Wattage	Efficacy	
L-1-XX-850-4-XXX-N-CP	21,195	156	136	
L-2-36lm-XX-850-4-XXX-N-CP	32,479	232	140	
L-2-XX-850-4-XXX-N-CP	42,389	307	138	
L-3-XX-850-4-XXX-N-CP	63,584	466	137	
L-4-XX-850-4-XXX-N-CP	84,778	619	137	
L-5-XX-850-4-XXX-N-CP	105,973	776	137	
L-6-XX-850-4-XXX-N-CP	127,167	930	137	
L-7-XX-850-4-XXX-N-CP	148,362	1,089	136	
L-8-XX-850-4-XXX-N-CP	169,556	1,236	137	

Optical Distribution Variations

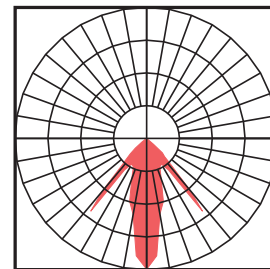
NRW + Lens

- Medium distribution achieved using narrow optic in addition to any standard lens.
- Clear lens includes minimum 2.4% uplight
 - White lens includes minimum 6% uplight



NRW Optic Only

- Narrow optic achieved using a highly reflective parabolic reflector. Includes 0% uplight component



Lumen Multipliers

Lens	
Standard = N (narrow optic) + No Lens	
N-NL (nominal)	100.0%
N-CA	92.6%
N-CP	85.4%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance (Data Based on 5000K, 80CRI and No Lens)

Integral EM Options

E10 (10 Watt EM)		E15 (15 Watt EM)		E20 (20 Watt EM)	
Lens Option	Delivered Lumens	Lens Option	Delivered Lumens	Lens Option	Delivered Lumens
N-NL	1,837	N-NL	2,747	N-NL	3,674
N-CA	1,761	N-CA	2,634	N-CA	3,522
N-CP	1,625	N-CP	2,431	N-CP	3,251

Field-Installable (Non-Integral) EM Options

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
N-NL	5,494
N-CA	5,267
N-CP	4,861

2' Length Wide Distribution ONLY

4' Length All Distributions

Standard Configurations	Other Common Configurations	Standard Configurations	Other Common Configurations
Part # L-1-SA-XXX-2-XXX • 24.75"L x 9.18"W x 2.4"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-2-XXX • 24.75"L x 2.4"W x 9.18"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SA-XXX-4-XXX • 47.81"L x 9.18"W x 2.4"H • Weight: 10 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-4-XXX • 47.81"L x 2.4"W x 9.18"H • Weight: 10 LBS 1 Bar 1 Channel 
Part # L-2-SA-XXX-2-XXX • 24.75"L x 12.18"W x 2.4"H • Weight: 7 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 10 LBS 2 Bar 2 Channel 	Part # L-2-SA-XXX-4-XXX • 47.81"L x 12.18"W x 2.4"H • Weight: 14 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-4-XXX • 47.81"L x 18.18"W x 2.4"H • Weight: 20 LBS 2 Bar 2 Channel 
Part # L-3-SA-XXX-2-XXX • 24.75"L x 15.18"W x 2.4"H • Weight: 9 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-2-XXX • 24.75"L x 21.18"W x 2.4"H • Weight: 12 LBS 3 Bar 2 Channel 	Part # L-3-SA-XXX-4-XXX • 47.81"L x 15.18"W x 2.4"H • Weight: 18 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-4-XXX • 47.81"L x 21.18"W x 2.4"H • Weight: 24 LBS 3 Bar 2 Channel 
Part # L-4-SA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 11 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-2-XXX • 24.75"L x 24.18"W x 2.4"H • Weight: 14 LBS 4 Bar 2 Channel 	Part # L-4-SA-XXX-4-XXX • 47.81"L x 18.18"W x 2.4"H • Weight: 22 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-4-XXX • 47.81"L x 24.18"W x 2.4"H • Weight: 28 LBS 4 Bar 2 Channel 
Part # L-5-DA-XXX-2-XXX • 24.75"L x 27.18"W x 2.4"H • Weight: 16 LBS 5 Bar 2 Channel 		Part # L-5-DA-XXX-4-XXX • 47.81"L x 27.18"W x 2.4"H • Weight: 32 LBS 5 Bar 2 Channel 	
Part # L-6-DA-XXX-2-XXX • 24.75"L x 30.18"W x 2.4"H • Weight: 18 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-2-XXX • 24.75"L x 36.18"W x 2.4"H • Weight: 21 LBS 6 Bar 3 Channel 	Part # L-6-DA-XXX-4-XXX • 47.81"L x 30.18"W x 2.4"H • Weight: 34 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-4-XXX • 47.81"L x 36.18"W x 2.4"H • Weight: 40 LBS 6 Bar 3 Channel 
Part # L-7-TA-XXX-2-XXX • 24.75"L x 39.18"W x 2.4"H • Weight: 23 LBS 7 Bar 3 Channel 		Part # L-7-TA-XXX-4-XXX • 47.81"L x 39.18"W x 2.4"H • Weight: 44 LBS 7 Bar 3 Channel 	
Part # L-8-TA-XXX-2-XXX • 24.75"L x 42.18"W x 2.4"H • Weight: 25 LBS 8 Bar 3 Channel 		Part # L-8-TA-XXX-4-XXX • 47.81"L x 42.18"W x 2.4"H • Weight: 48 LBS 8 Bar 3 Channel 	

2' Performance - Narrow Optic (HO7) ONLY Offered with 840 and 850 Options (Data Based on 5000K and 80CRI)

Injection-Molded Narrow Optic				
Delivered Lumens @ 5000K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-850-2-XXX-N	10,005	69	145
	L-2-18lm-XX-850-2-XXX-N	17,852	116	154
	L-2-XX-850-2-XXX-N	20,253	134	151
	L-3-XX-850-2-XXX-N	30,136	200	150
	L-4-36lm-XX-850-2-XXX-N	35,704	232	154
	L-4-XX-850-2-XXX-N	40,717	271	150
	L-5-XX-850-2-XXX-N	50,145	337	149
	L-6-XX-850-2-XXX-N	60,200	400	150
	L-7-XX-850-2-XXX-N	70,349	473	149
	L-8-XX-850-2-XXX-N	80,251	538	149

Custom lumen/wattage output available with CFO option specified. Consult Factory.

Lumen Multipliers

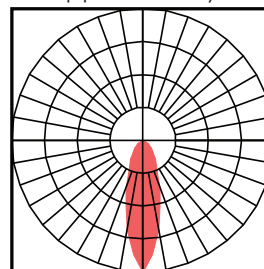
CCT	
Standard = 5000K CCT	
5000K (nominal)	100.0%
4000K	100.0%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%

Optical Distribution

NRW Optic

Narrow optic achieved using a molded-acrylic, prismatic optic. Includes approximately 0% uplight.



Emergency Battery Performance

(Data Based on 5000K and 80CRI)

Integral EM Options

Field-Installable (Non-Integral) EM Options

E10 (10 Watt EM)	
Lens Option	Delivered Lumens
N	1,546

E15 (15 Watt EM)	
Lens Option	Delivered Lumens
N	2,311

E20 (20 Watt EM)	
Lens Option	Delivered Lumens
N	3,091

E30 (30 Watt EM)	
Lens Option	Delivered Lumens
N	4,623

2' Performance - Narrow Optic (HO5) ONLY Offered with 835 and 90CRI Options (Data Based on 3500K and 80CRI)

Narrow Optic with No Lens - HO5				
Delivered Lumens @ 3500K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-835-2-XXX-N	12,042	78	154
	L-2-18lm-XX-835-2-XXX-N	18,453	116	159
	L-2-XX-835-2-XXX-N	24,084	154	157
	L-3-30lm-XX-835-2-XXX-N	30,798	201	153
	L-3-XX-835-2-XXX-N	36,125	233	155
	L-4-XX-835-2-XXX-N	48,167	309	156
	L-5-XX-835-2-XXX-N	60,209	388	155
	L-6-XX-835-2-XXX-N	72,251	465	155
	L-7-XX-835-2-XXX-N	84,293	544	155
	L-8-XX-835-2-XXX-N	96,334	618	156

Narrow Optic with CA (Clear Acrylic) Lens - HO5				
Delivered Lumens @ 3500K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-835-2-XXX-N-CA	11,544	78	148
	L-2-18lm-XX-835-2-XXX-N-CA	17,691	116	153
	L-2-XX-835-2-XXX-N-CA	23,089	154	150
	L-3-30lm-XX-835-2-XXX-N-CA	29,526	201	147
	L-3-XX-835-2-XXX-N-CA	34,633	233	149
	L-4-XX-835-2-XXX-N-CA	46,178	309	149
	L-5-XX-835-2-XXX-N-CA	57,722	388	149
	L-6-XX-835-2-XXX-N-CA	69,266	465	149
	L-7-XX-835-2-XXX-N-CA	80,811	544	148
	L-8-XX-835-2-XXX-N-CA	92,355	618	149

Narrow Optic with CP (Clear Polycarbonate) Lens - HO5				
Delivered Lumens @ 3500K, 80 CRI, High Lumen	Model	Delivered Lumens	Wattage	Efficacy
	L-1-XX-835-2-XXX-N-CP	10,655	78	137
	L-2-18lm-XX-835-2-XXX-N-CP	16,328	116	141
	L-2-XX-835-2-XXX-N-CP	21,310	154	139
	L-3-30lm-XX-835-2-XXX-N-CP	27,250	201	136
	L-3-XX-835-2-XXX-N-CP	31,964	233	137
	L-4-XX-835-2-XXX-N-CP	42,619	309	138
	L-5-XX-835-2-XXX-N-CP	53,274	388	137
	L-6-XX-835-2-XXX-N-CP	63,929	465	138
	L-7-XX-835-2-XXX-N-CP	74,583	544	137
	L-8-XX-835-2-XXX-N-CP	85,238	618	138

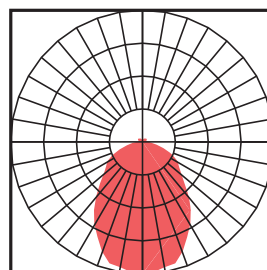
Custom lumen/wattage output available with CFO option specified. Consult Factory.

Optical Distribution Variations

NRW + Lens

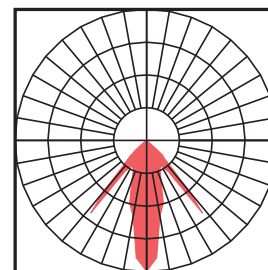
Medium distribution achieved using narrow optic in addition to any standard lens.

- Clear lens includes minimum 2.4% uplight
- White lens includes minimum 6% uplight



NRW Optic Only

Narrow optic achieved using a highly reflective parabolic reflector. Includes 0% uplight component



Lumen Multipliers

Lens	
Standard = N (narrow optic) + No Lens	
N-NL (nominal)	100.0%
N-CA	92.6%
N-CP	85.4%

CCT	
Standard = 5000K CCT	
6500K	97.1%
5700K	98.4%
5000K (nominal)	100.0%
4000K	100.0%
3500K	97.1%
3000K	93.2%
2700K	90.6%

CRI	
Standard = 80 CRI	
80 CRI (nominal)	100.0%
90 CRI	
6500K (90 CRI)	83.4%
5700K (90 CRI)	83.7%
5000K (90 CRI)	83.7%
4000K (90 CRI)	83.7%
3500K (90 CRI)	82.2%
3000K (CRI 90)	79.8%
2700K (CRI 90)	75.9%

Emergency Battery Performance

(Data Based on 3500K, 80CRI and No Lens)

Integral EM Options

Field-Installable (Non-Integral) EM Options

E10 (10 Watt EM)	
Lens Option	Delivered Lumens
N-NL	1,783
N-CA	1,710
N-CP	1,578

E15 (15 Watt EM)	
Lens Option	Delivered Lumens
N-NL	2,667
N-CA	2,557
N-CP	2,360

E20 (20 Watt EM)	
Lens Option	Delivered Lumens
N-NL	3,567
N-CA	3,420
N-CP	3,156

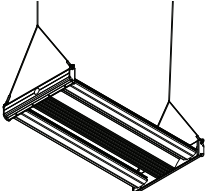

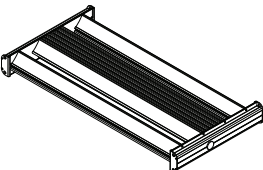
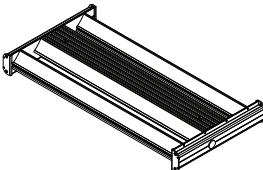
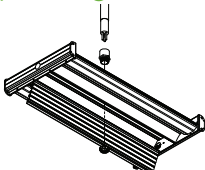
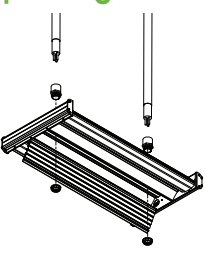
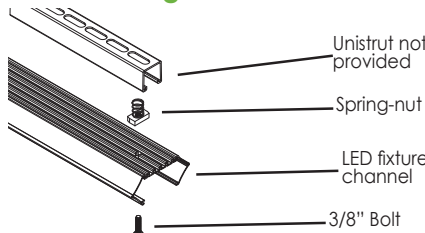
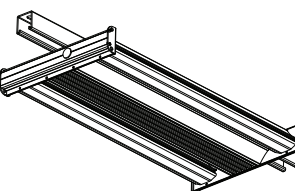
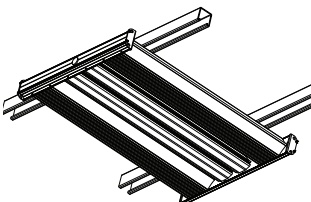
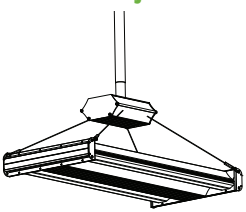
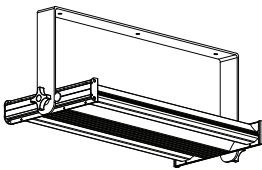
E30 (30 Watt EM)	
Lens Option	Delivered Lumens
N-NL	5,334
N-CA	5,114
N-CP	4,720

2' Length Narrow Optic 840 and 850 Options ONLY

2' Length Narrow Optic 835 and 90CRI Options ONLY

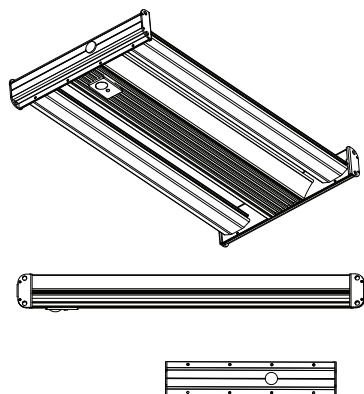
Standard Configurations	Other Common Configurations	Standard Configurations	Other Common Configurations
Part # L-1-SA-XXX-2-XXX-N • 24.14"L x 9.18"W x 2.4"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-2-XXX-N • 24.14"L x 2.4"W x 9.18"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SA-XXX-2-XXX • 24.75"L x 9.18"W x 2.4"H • Weight: 5 LBS 1 Bar 1 Channel 	Part # L-1-SB-XXX-2-XXX • 24.75"L x 2.4"W x 9.18"H • Weight: 5 LBS 1 Bar 1 Channel 
Part # L-2-SA-XXX-2-XXX-N • 24.14"L x 12.18"W x 2.4"H • Weight: 7 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-2-XXX-N • 24.14"L x 18.18"W x 2.4"H • Weight: 10 LBS 2 Bar 2 Channel 	Part # L-2-SA-XXX-2-XXX • 24.75"L x 12.18"W x 2.4"H • Weight: 7 LBS 2 Bar 1 Channel 	Part # L-2-DA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 10 LBS 2 Bar 2 Channel 
Part # L-3-SA-XXX-2-XXX-N • 24.14"L x 15.18"W x 2.4"H • Weight: 9 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-2-XXX-N • 24.14"L x 21.18"W x 2.4"H • Weight: 12 LBS 3 Bar 2 Channel 	Part # L-3-SA-XXX-2-XXX • 24.75"L x 15.18"W x 2.4"H • Weight: 9 LBS 3 Bar 1 Channel 	Part # L-3-DA-XXX-2-XXX • 24.75"L x 21.18"W x 2.4"H • Weight: 12 LBS 3 Bar 2 Channel 
Part # L-4-SA-XXX-2-XXX-N • 24.14"L x 18.18"W x 2.4"H • Weight: 11 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-2-XXX-N • 24.14"L x 24.18"W x 2.4"H • Weight: 14 LBS 4 Bar 2 Channel 	Part # L-4-SA-XXX-2-XXX • 24.75"L x 18.18"W x 2.4"H • Weight: 11 LBS 4 Bar 1 Channel 	Part # L-4-DA-XXX-2-XXX • 24.75"L x 24.18"W x 2.4"H • Weight: 14 LBS 4 Bar 2 Channel 
Part # L-5-DA-XXX-2-XXX-N • 24.14"L x 27.18"W x 2.4"H • Weight: 16 LBS 5 Bar 2 Channel 		Part # L-5-DA-XXX-2-XXX • 24.75"L x 27.18"W x 2.4"H • Weight: 16 LBS 5 Bar 2 Channel 	
Part # L-6-DA-XXX-2-XXX-N • 24.14"L x 30.18"W x 2.4"H • Weight: 18 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-2-XXX-N • 24.14"L x 36.18"W x 2.4"H • Weight: 21 LBS 6 Bar 3 Channel 	Part # L-6-DA-XXX-2-XXX • 24.75"L x 30.18"W x 2.4"H • Weight: 18 LBS 6 Bar 2 Channel 	Part # L-6-TA-XXX-2-XXX • 24.75"L x 36.18"W x 2.4"H • Weight: 21 LBS 6 Bar 3 Channel 
Part # L-7-TA-XXX-2-XXX-N • 24.14"L x 39.18"W x 2.4"H • Weight: 23 LBS 7 Bar 3 Channel 		Part # L-7-TA-XXX-2-XXX • 24.75"L x 39.18"W x 2.4"H • Weight: 23 LBS 7 Bar 3 Channel 	
Part # L-8-TA-XXX-2-XXX-N • 24.14"L x 42.18"W x 2.4"H • Weight: 25 LBS 8 Bar 3 Channel 		Part # L-8-TA-XXX-2-XXX • 24.75"L x 42.18"W x 2.4"H • Weight: 25 LBS 8 Bar 3 Channel 	

Mounting Options

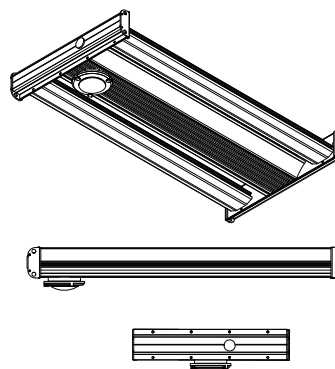
Cable Mount	Surface Mount
<p>2-point Y-cable mount</p>  <p>Part Numbers: 10Y, 20Y, 30Y</p> <p>Description:</p> <ul style="list-style-type: none"> • "10", "20", "30" represents length in feet • Galvanized steel cable and hook <p>4-point cable mount</p>  <p>Part Numbers: 4P10, 4P20 4P10S, 4P20S</p> <p>Description:</p> <ul style="list-style-type: none"> • "10", "20", "30" represents length in feet • "S" in part number denotes natatorium-grade 316 stainless steel, recommended for natatoriums and other caustic environments 	<p>Surface mounting (no additional hardware or mounting holes supplied)</p>  <p>Part Number: SM</p> <p>Description:</p> <ul style="list-style-type: none"> • Fixture may be anchored flush to any suitable substrate through electronics channel • No additional hanging hardware provided <p>Surface mount - 3/8" mounting holes supplied</p>  <p>Part Number: SMH</p> <p>Description:</p> <ul style="list-style-type: none"> • Fixture may be anchored to any suitable substrate through electronics channel • (2) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion
Stem Mount	Unistrut Mount
<p>1-point rigid stem mount</p>  <p>Part Numbers: MH1 MH1S</p> <p>Description:</p> <ul style="list-style-type: none"> • 3/4" IP threaded hub to mount to 3/4" conduit or stem (other hub diameters available, contact factory for options) • Galvanized steel is standard, for stainless steel use "s" in part number • Stem/threaded rod not provided • Not available on all models and options • Power feed may be routed through stem or through fixture's endcap • Cord NOT installed when power feed is routed through stem <p>2-point rigid stem mount</p>  <p>Part Numbers: MH2 MH2S</p> <p>Description:</p> <ul style="list-style-type: none"> • 3/4" IP threaded hub to mount to 3/4" conduit or stem (other hub diameters available, contact factory for options) • Galvanized steel is standard, for stainless steel use "s" at end of part number • Stem/threaded rod not provided • Not available on all models and options • Power feed may be routed through stem or through fixture's endcap • Cord NOT installed when power feed is routed through stem 	<p>Unistrut mounting detail</p>  <p>Unistrut not provided Spring-nut LED fixture channel 3/8" Bolt</p> <p>2-point Unistrut hardware</p>  <p>Part Number: UM2</p> <p>Description:</p> <ul style="list-style-type: none"> • Unistrut hardware includes (2) sets of 3/8" diameter spring-nuts, bolts, mounting holes provided • (2) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion <p>4-point Unistrut hardware</p>  <p>Part Number: UM4</p> <p>Description:</p> <ul style="list-style-type: none"> • Unistrut hardware includes (4) sets of 3/8" diameter spring-nuts, bolts, mounting holes provided • (4) 3/8" mounting holes provided per electronics channel, centered 2" from the end of the aluminum extrusion
Threaded junction box for single point mount	Yoke Mount
 <p>Part Number for 3' Cable Lengths: SPM3'</p> <p>Part Number for 5' Cable Lengths: SPM5'</p> <p>Description:</p> <ul style="list-style-type: none"> • 3/4" IP threaded hub attached to 3" x 6" x 6" junction box with (4) fixed-length cables (3' and 5') for fixture mounting • Power cord ordered separately 	<p>Yoke Mount</p>  <p>Part Number: YKX ("x" to change based on fixture)</p> <p>Description:</p> <ul style="list-style-type: none"> • Adjustable yoke mount allows for ceiling or wall mounting • Power cord ordered separately • Yoke mount is installed on the fixture before shipping • Hardware to secure mount to structural surface NOT provided • Not suitable for WET locations

120-277V Sensors

OC



DO

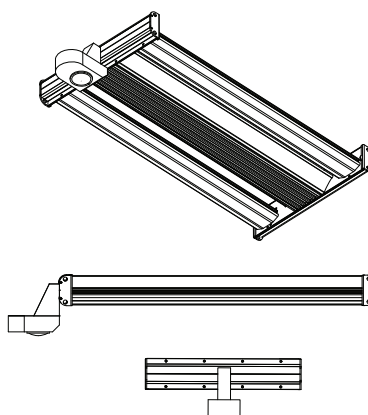


OC	
120V-277V Occupancy Sensor (On/Off)	
Control Type	Occupancy-PIR (line voltage)
Ambient Temperature	0°C to 55°C
Mounting Height	15' to 40'
Coverage Area	Suggested: 1 to 1 spacing to mounting height ratio

DO	
120V-277V Daylight Harvesting and Occupancy Sensor (On/Off and 0-10V Dimming)	
Control Type	Occupancy-PIR (line voltage & 0-10V) DLH-Photocell (line voltage & 0-10V)
Ambient Temperature	-40°C to 70°C
Mounting Height	8' to 40'
Coverage Area	100' diameter (@ 40' Mounting Height)

347-480V Sensor

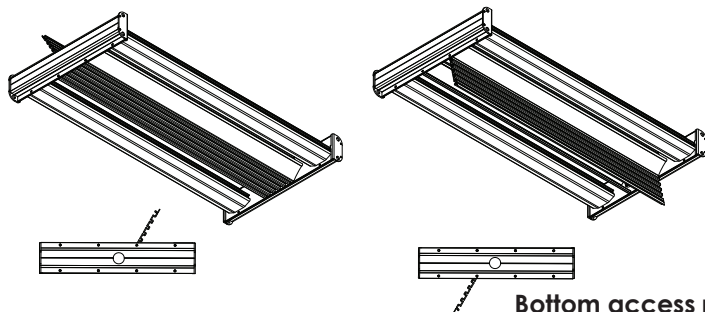
OCKH/DOKH



OCKH	
347V-480V Occupancy Sensor (On/Off)	
Control Type	Occupancy-PIR (line voltage & 0-10V)
Ambient Temperature	-10°C to 60°C
Mounting Height	15' to 45'
Coverage Area	15' to 20' radial coverage (30'-40' diameter) typical

DOKH	
347V-480V Daylight Harvesting and Occupancy Sensor (On/Off and 0-10V Dimming)	
Control Type	Occupancy-PIR (line voltage & 0-10V) DLH-Photocell (line voltage & 0-10V)
Ambient Temperature	-10°C to 60°C
Mounting Height	15' to 45'
Coverage Area	15' to 20' radial coverage (30'-40' diameter) typical

Electronics Channel Access



Top Access: Channels open from above the fixture. The driver chamber can be accessed as if it were sitting on a table.

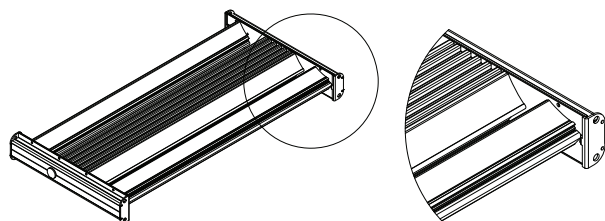
To specify "Top Access", use part number: **"T"**

Bottom Access: Channels open from below the fixture. The driver chamber is accessed from above the installer.

To specify "Bottom Access", use part number: **"B"**

Bottom access required for wet location

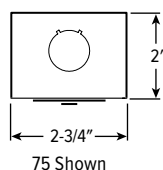
Independently Rotatable LED Bars



Rotatable Bars: Each LED bar can be rotated independently in manufacturing process or in the field. Contact factory for more options.

To specify "Rotatable Bars", add part number: **"R"**

Fixed BARs required for gym and high abuse environments



CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Small fixture profile allows inconspicuous placement in coves or confined spaces
- Round and square lensed fixtures provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption between fixtures
- Diffuse acrylic lens on 75R and 75S enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution (75 only)
- High-performance up to 164 lm/W
- Available on QuickShip
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- FINISH – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED board. See fixture performance data for lumen maintenance. 25°C maximum ambient operating temperature. 40°C maximum ambient operating temperature with HA Option, lumen restrictions apply, consult Fixture Performance Data.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS –
 - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: 75 - 4 - L85/835 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH ^[1]	LUMENS ^[2]	CRI	CCT
75	2 2'	2'	8 80	27 2700K
75R	3 3'	L15 1,500lm	9 90 ^[7]	30 3000K
75S	4 4'	L25 2,500lm		35 3500K
	8 8' ^[3]	L32 3,200lm		40 4000K
		L42 4,200lm		50 5000K
		L60 6,000lm ^[4]		
		L40 4,000lm		
		L64 6,400lm		
		L30 3,000lm		
		L50 5,000lm		
		L65 6,500lm		
		L85 8,500lm		
		L100 10,000lm		
		L120 12,000lm ^[5]		
		L60 6,000lm		
		L100 10,000lm		
		L120 12,000lm ^[5]		
		L200 20,000lm		
		L240 24,000lm ^[6]		

OPTIONS ^[8]

See page 5 for FINISH OPTIONS. See page 5 for SPECIAL REFLECTORS.

EM/10WLP	Low-profile 10-watt emergency battery ^[9]
EM/10WRM	Remote mount 10-watt emergency battery ^[10]
QC_	Quick-connect wiring harness. ^[11]
WG-75	11-gauge white powder coat wireguard ^[12]
315	1-1/2" ceiling spacer
VBY	(2) Y-hangers
VBY-2	(2) Y-hangers with 2' chains
RA-75	Row aligner ^[13]
45AMB	(2) 45° adjustable mounting brackets ^[14]
HA	High ambient operating temperature, 40°C ^[15]
FP	Frosted polycarbonate lens ^[16]

(L_) Additional lower lumen packages available. ^[17]
Example: 7,000 nominal lumens = 75-4-L85/835-(L70)-DIM-UNV

SP1	10kV surge protection, 120 or 277V
SP2	10kV surge protection, 208 or 240V
SP3	10kV surge protection, 347V

AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[18]

Prefix	Type	Length
ACF/	Feeder	D 1" grid & hardpan 24 24"
ACJ/	Joiner	N 9/16" grid 48 48"
		S Slot grid 96 96"

CONTROL ^[19]

See page 7 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[20]
AVI-LVFA-PIR	Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount ^[21]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount ^[22]
AWN	Lutron Athena wireless node integral fixture control, RF only ^[23]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[24]

DRIVER

See page 9 for ADDITIONAL DRIVER OPTIONS.

DRIVER	VOLTAGE
DIM	Driver with external dimming wires 240 240V
DRV	Driver without external dimming wires 277 277V
UNV	120-277V 347 347V ^[27]
DA	Driver with 12V auxiliary power, without external dimming wires ^[25]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) ^[26]

NOTES

- For actual length, see page 4 for FIXTURE DETAILS
- Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
- 75R and 75S ships with (2) 4' lenses.
- 75 only.
- 75 only.
- 75 only.
- Extended lead times may apply. Consult factory for availability.
- See page 4 for MOUNTING DETAILS.
- 4' and 8' only; Not available with 4' L120 and 8' L240 lumen packages.
- See page 4 for MOUNTING DETAILS.
- See page 5 for QUICK-CONNECT OPTIONS.
- Shipped separately, field-installed.
- Required when row mounting with aircraft cables.
- Cord recommended, ships separately. See page 4 for MOUNTING DETAILS. Field-adjustable up and down in 7-1/2" increments.
- Not available with 2' L60, 4' L120 and 8' L240 lumen packages. Lumen restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- 75R only.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Units specified with aircraft cable require cord and RA-75 row aligner. See page 4 for MOUNTING DETAILS.

- See page 5 for SENSOR & NODE PLACEMENT DETAILS. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only.
- DA Driver only.
- DA driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on, Lutron Athena, and LV-ZLS05 Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	WATTAGE	75 (NO LENS)		75R & 75s ⁽¹⁾		LUMEN MAINTENANCE ⁽²⁾				AMBIENT TEMPERATURE ⁽³⁾	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	L70	L80	L85	L90	EM	NO EM
2'	L15	10.8	1592	147	1511	140	>72000	>72000	>72000	50,000	40	40
	L25	18.2	2602	143	2470	136	>72000	>72000	>72000	50,000	40	40
	L32	21.3	3092	145	2936	138	>72000	>72000	58,000	36,000	40	40
	L42	31.4	4344	138	4124	132	>72000	>72000	58,000	36,000	35	40
	L60	43.6	6052	139	—	—	>72,000	53,000	38,000	24,000	—	—
3'	L40	28.2	4092	145	3885	138	>72000	>72000	58,000	36,000	35	40
	L64	48.2	6593	137	6259	130	>72,000	53,000	38,000	24,000	30	35
	L30	19.7	3071	156	2916	148	>72000	>72000	>72000	50,000	40	40
4'	L50	33.0	5126	155	4867	148	>72000	>72000	>72000	50,000	40	40
	L65	42.3	6313	149	5994	142	>72000	>72000	58,000	36,000	40	40
	L85	56.2	8530	152	8098	144	>72,000	53,000	38,000	24,000	35	40
	L100	68.3	10154	149	9640	141	>72000	>72000	58,000	36,000	30	30
	L120	85.9	12105	141	—	—	>72,000	53,000	38,000	24,000	—	—
8'	L60	35.3	5814	165	5520	157	>72000	>72000	>72000	50,000	40	40
	L100	65.9	10078	153	9568	145	>72000	>72000	>72000	50,000	35	35
	L130	87.9	13011	148	12353	141	>72000	>72000	58,000	36,000	35	35
	L170	112.4	17060	152	16197	144	>72,000	53,000	38,000	24,000	35	35
	L200	136.5	20309	149	19281	141	>72000	>72000	58,000	36,000	30	30
	L240	171.7	24208	141	—	—	>72,000	53,000	38,000	24,000	—	—

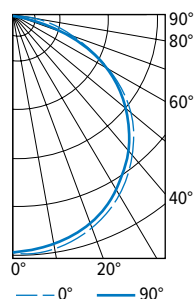
MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

- Use 0.95 multiplier for the 75R when specified with the FP option.
 - Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
 - Maximum ambient operating temperature (°C) when specified with HA option.
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
 - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 - Use multiplier table to calculate additional options.

PHOTOMETRY

75-4-L85/835-DIM Total Luminaire Output: 8530 lumens; 56.2 Watts | Efficacy: 152 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2896	2896	2896	
	5	2917	2887	2876	275
	15	2837	2799	2791	792
	25	2663	2624	2610	1213
	35	2415	2366	2338	1484
	45	2066	2006	1990	1552
	55	1634	1580	1560	1415
	65	1124	1069	1048	1070
	75	581	543	531	582
	85	104	116	101	144
	90	9	14	9	

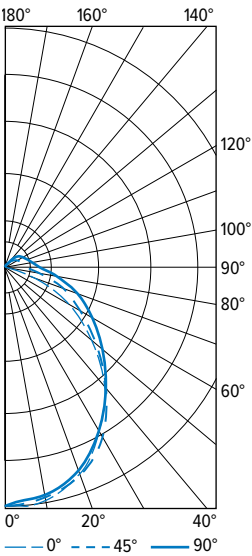
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2279	27
	0 - 40	3763	44
	0 - 60	6730	79
	0 - 90	8527	100
	0 - 180	8530	100

PHOTOMETRY CONTINUED ON NEXT PAGE.



75 LED Narrow Strip

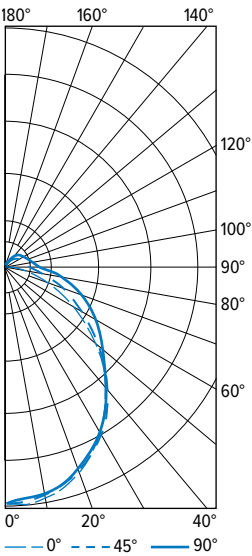
75R-4-L85/835 Total Luminaire Output: 8098 lumens; 56.2 Watts | Efficacy: 144 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2594	2594	2594	
	5	2622	2585	2553	246
	15	2503	2497	2480	703
	25	2256	2306	2324	1059
	35	1915	2042	2111	1264
	45	1481	1673	1824	1281
	55	1003	1296	1488	1135
	65	620	942	1117	891
	75	267	630	775	613
	85	63	401	501	378
	90	9	311	407	
	95	1	249	329	225
	105	0	150	219	136
	115	0	94	149	83
	125	0	53	102	47
	135	0	28	63	24
	145	0	12	35	10
	155	0	6	16	3
	165	0	0	4	0
	175	0	0	0	0
	180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2008	25
	0 - 40	3272	40
	0 - 60	5688	70
	0 - 90	7570	94
	90 - 120	443	6
	90 - 150	524	7
	90 - 180	527	7
	0 - 180	8098	100

75S-4-L85/835 Total Luminaire Output: 8098 lumens; 56.2 Watts | Efficacy: 144 lm/W | 80 CRI; 3500K CCT

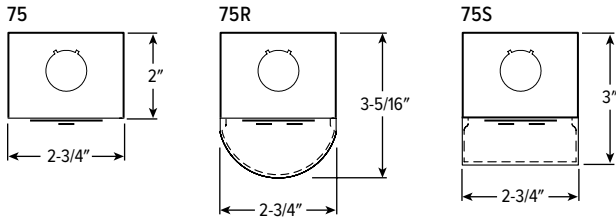


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2732	2732	2732	
	5	2756	2720	2682	258
	15	2633	2611	2579	734
	25	2351	2362	2323	1083
	35	1969	2010	1965	1247
	45	1516	1554	1583	1209
	55	1053	1160	1291	1051
	65	618	840	1022	826
	75	270	542	745	563
	85	47	323	491	332
	90	0	246	390	
	95	0	230	344	223
	105	0	200	291	185
	115	0	171	256	149
	125	0	139	216	110
	135	0	96	166	71
	145	0	58	113	38
	155	0	36	63	16
	165	0	17	31	4
	175	0	0	0	0
	180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2075	26
	0 - 40	3321	41
	0 - 60	5581	69
	0 - 90	7301	90
	90 - 120	557	7
	90 - 150	777	10
	90 - 180	797	10
	0 - 180	8098	100

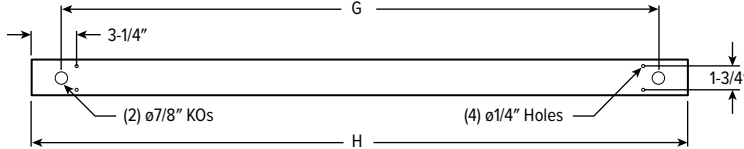


CROSS SECTIONS



FIXTURE DETAILS

BACKVIEW

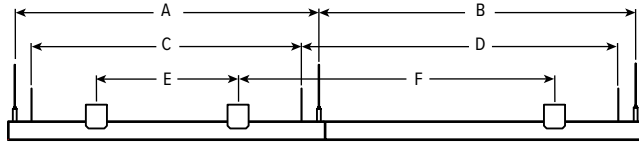


	7/8" KOs (G)	ACTUAL FIXTURE LENGTH (H)
2'	18-3/8"	22-1/2"
3'	29-1/2"	33-9/16"
4'	40-1/2"	44-5/8"
8'	85-1/8"	89-1/4"

MOUNTING DETAILS

STAND ALONE

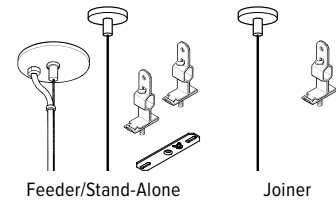
SUBSEQUENT



MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2'	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
3'	32-1/2"	33-9/16"	30-1/16"	33-9/16"	21"	33-9/16"
4'	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8'	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

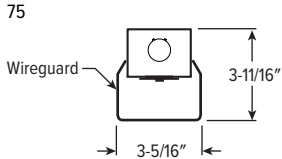
CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. ⁽¹⁾	WIRE SIZE	COLOR
S	24 24" 48 48" 96 96"	3 4 5 6	8D 18ga	/W White /B Black

¹ Includes (2) 22ga purple & pink dimming conductors

WG-75



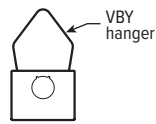
75R



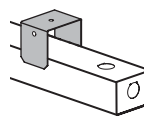
75S



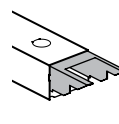
VBY



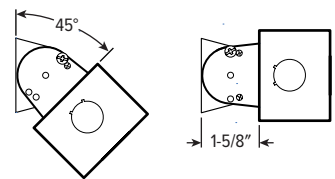
315



RA-75

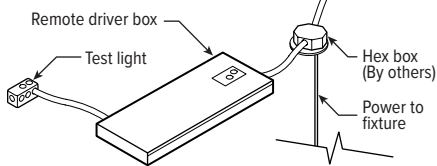


45AMB



REMOTE MOUNT BATTERY

Max remote distance 50'.

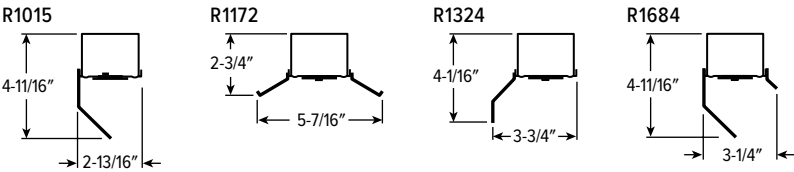


QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

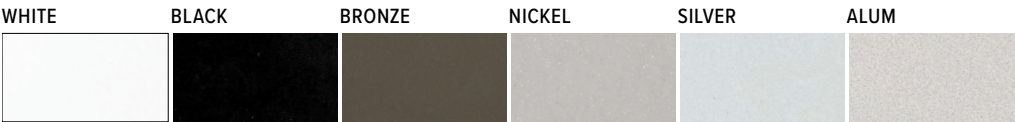
DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

SPECIAL REFLECTORS



Reflectors are ordered separately, only available with 75, cannot be used with wireguard accessories.
Example: R1172-4-75LED REFL

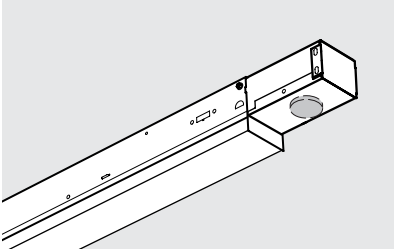
FINISH OPTIONS



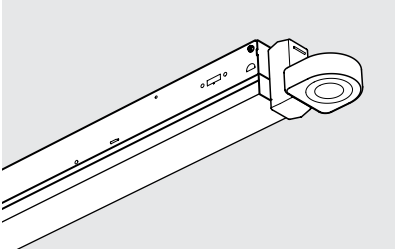
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS

AVI-LVFA | AWRN | AWNS | VDO | WS-FSP | LV-ZLS05



LV-OSFHU | SS-LSXR



SEE NEXT PAGE FOR CONTROL DETAILS.

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

Secure

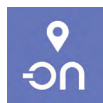
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App



Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

ACCESSORIES

WALL STATIONS

AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK

AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup

CEILING MOUNT SENSORS

AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-PIR Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount. DA Driver only.

SPECIFICATIONS

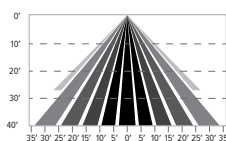
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile apps
MANUFACTURER	Avi-On



SENSOR COVERAGE PATTERNS

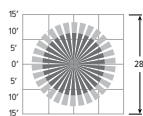
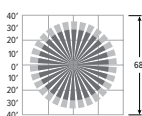
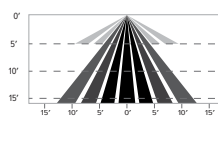
Large motion

40' height: ø68' coverage



Small motion

15' height: ø28' coverage



SENSOR DETAIL




Dimensions: 2-5/16" x 1-7/16"



75 LED Narrow Strip

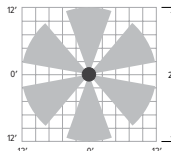
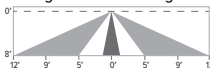
AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On
	

SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage




SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"

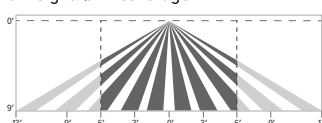
ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron
	

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

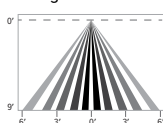
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNDR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

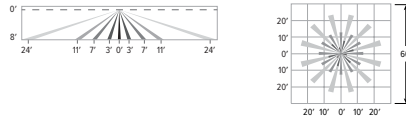


OCCWS-FSP-311-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
OCCWS-FSP-211-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
FSIR-100 Remote controller for 211 sensor. Please specify quantity required per project. Ordered and shipped separately.

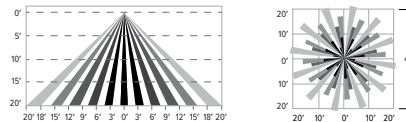
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	311 Sensor: App (iOS or Android) 211 Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

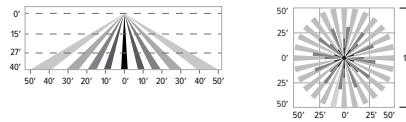
L2 8' height: ø48' coverage



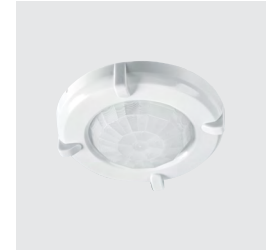
L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL



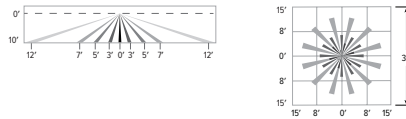
Dimensions
L2/L3: ø2-3/8" | L7: ø3-1/4"

LV-ZLS05-ILW Leviton PIR motion and daylight sensor. DA Driver only. Adjustable via remote. Optional ZLSOR-RA1 remote controller available.
ZLSOR-RA1 Remote controller for ZLS05 sensor. Please specify quantity required per project. Ordered and shipped separately.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	120°
TEMPERATURE RANGE	-20° to 70°C
COMMISSIONING	DIP switches or optional remote: ZLSOR-RA1

SENSOR COVERAGE PATTERNS

10' height: ø24' coverage



SENSOR DETAIL



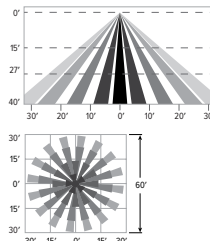
Dimensions: ø1-5/16"

OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

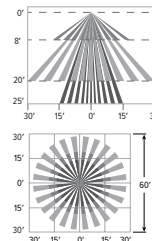
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

**High bay
40' height: ø60' coverage**



**Low bay
25' height: ø60' coverage**



SENSOR DETAIL

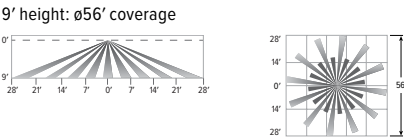


75 LED Narrow Strip

OCCSS LSXR-10-120-277 Sensor Switch PIR motion sensor, 120-277V
OCCSS LSXR-10-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	7' – 15'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS



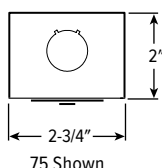
SENSOR DETAIL



ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver



CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Small fixture profile allows inconspicuous placement in coves or confined spaces
- Round and square lensed fixtures provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption between fixtures
- Diffuse acrylic lens on 75R and 75S enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution (75 only)
- High-performance up to 164 lm/W
- Available on QuickShip
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – 22-gauge die-formed C.R.S.
- FINISH** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High-quality mid-power LED board. See fixture performance data for lumen maintenance. 25°C maximum ambient operating temperature. 40°C maximum ambient operating temperature with HA Option, lumen restrictions apply, consult Fixture Performance Data.
- MOUNTING** – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS** –
 - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: 75 - 4 - L85/835 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH ^[1]	LUMENS ^[2]	CRI	CCT
75	2 2'	2' 2,500lm	8 80	27 2700K
75R	3 3'	L15 1,500lm	9 90 ^[7]	30 3000K
75S	4 4'	L25 2,500lm		35 3500K
	8 8' ^[3]	L32 3,200lm		40 4000K
		L42 4,200lm		50 5000K
		L60 6,000lm ^[4]		
		L40 4,000lm		
		L64 6,400lm		
		L30 3,000lm		
		L50 5,000lm		
		L65 6,500lm		
		L85 8,500lm		
		L100 10,000lm		
		L120 12,000lm ^[5]		
		L60 6,000lm		
		L100 10,000lm		
		L200 20,000lm		
		L240 24,000lm ^[6]		

OPTIONS ^[8]

See page 5 for **FINISH OPTIONS**. See page 5 for **SPECIAL REFLECTORS**.

EM/10WLP	Low-profile 10-watt emergency battery ^[9]
EM/10WRM	Remote mount 10-watt emergency battery ^[10]
QC_	Quick-connect wiring harness. ^[11]
WG-75	11-gauge white powder coat wireguard ^[12]
315	1-1/2" ceiling spacer
VBV	(2) Y-hangers
VBV-2	(2) Y-hangers with 2' chains
RA-75	Row aligner ^[13]
45AMB	(2) 45° adjustable mounting brackets ^[14]
HA	High ambient operating temperature, 40°C ^[15]
FP	Frosted polycarbonate lens ^[16]

(L_)	Additional lower lumen packages available. ^[17] Example: 7,000 nominal lumens = 75-4-L85/835-(L70)-DIM-UNV
SP1	10kV surge protection, 120 or 277V
SP2	10kV surge protection, 208 or 240V
SP3	10kV surge protection, 347V

AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[18]

Prefix	Type	Length
ACF/	Feeder	D 1" grid & hardpan 24 24"
ACJ/	Joiner	N 9/16" grid 48 48"
		S Slot grid 96 96"

CONTROL ^[19]

See page 7 for **ADDITIONAL CONTROL OPTIONS**.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[20]
AVI-LVFA-PIR	Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount ^[21]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount ^[22]
AWN	Lutron Athena wireless node integral fixture control, RF only ^[23]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[24]

DRIVER

See page 9 for **ADDITIONAL DRIVER OPTIONS**.

DRIVER	VOLTAGE
–	120 120V
–	208 208V
DIM	240 240V
–	277 277V
DRV	UNV 120-277V
–	347 347V ^[27]
DA	Driver with 12V auxiliary power, without external dimming wires ^[25]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) ^[26]

NOTES

- For actual length, see page 4 for **FIXTURE DETAILS**
- Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for **FIXTURE PERFORMANCE DATA**. Additional lumen packages available, see options.
- 75R and 75S ships with (2) 4' lenses.
- 75 only.
- 75 only.
- 75 only.
- Extended lead times may apply. Consult factory for availability.
- See page 4 for **MOUNTING DETAILS**.
- 4' and 8' only; Not available with 4' L120 and 8' L240 lumen packages.
- See page 4 for **MOUNTING DETAILS**.
- See page 5 for **QUICK-CONNECT OPTIONS**.
- Shipped separately, field-installed.
- Required when row mounting with aircraft cables.
- Cord recommended, ships separately. See page 4 for **MOUNTING DETAILS**. Field-adjustable up and down in 7-1/2° increments.
- Not available with 2' L60, 4' L120 and 8' L240 lumen packages. Lumen restrictions apply. See page 2 for **FIXTURE PERFORMANCE DATA**.
- 75R only.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Units specified with aircraft cable require cord and RA-75 row aligner. See page 4 for **MOUNTING DETAILS**.

- See page 5 for **SENSOR & NODE PLACEMENT DETAILS**. See page 6 for **AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS**.
- DA Driver only.
- DA Driver only.
- DA driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on, Lutron Athena, and LV-ZLS05 Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	WATTAGE	75 (NO LENS)		75R & 75S ⁽¹⁾		LUMEN MAINTENANCE ⁽²⁾				AMBIENT TEMPERATURE ⁽³⁾	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	L70	L80	L85	L90	EM	NO EM
2'	L15	10.8	1592	147	1511	140	>72000	>72000	>72000	50,000	40	40
	L25	18.2	2602	143	2470	136	>72000	>72000	>72000	50,000	40	40
	L32	21.3	3092	145	2936	138	>72000	>72000	58,000	36,000	40	40
	L42	31.4	4344	138	4124	132	>72000	>72000	58,000	36,000	35	40
	L60	43.6	6052	139	—	—	>72,000	53,000	38,000	24,000	—	—
3'	L40	28.2	4092	145	3885	138	>72000	>72000	58,000	36,000	35	40
	L64	48.2	6593	137	6259	130	>72,000	53,000	38,000	24,000	30	35
	L30	19.7	3071	156	2916	148	>72000	>72000	>72000	50,000	40	40
4'	L50	33.0	5126	155	4867	148	>72000	>72000	>72000	50,000	40	40
	L65	42.3	6313	149	5994	142	>72000	>72000	58,000	36,000	40	40
	L85	56.2	8530	152	8098	144	>72,000	53,000	38,000	24,000	35	40
	L100	68.3	10154	149	9640	141	>72000	>72000	58,000	36,000	30	30
	L120	85.9	12105	141	—	—	>72,000	53,000	38,000	24,000	—	—
	L60	35.3	5814	165	5520	157	>72000	>72000	>72000	50,000	40	40
8'	L100	65.9	10078	153	9568	145	>72000	>72000	>72000	50,000	35	35
	L130	87.9	13011	148	12353	141	>72000	>72000	58,000	36,000	35	35
	L170	112.4	17060	152	16197	144	>72,000	53,000	38,000	24,000	35	35
	L200	136.5	20309	149	19281	141	>72000	>72000	58,000	36,000	30	30
	L240	171.7	24208	141	—	—	>72,000	53,000	38,000	24,000	—	—

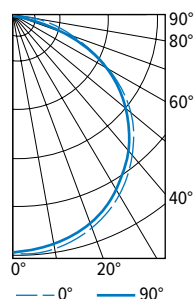
MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

- Use 0.95 multiplier for the 75R when specified with the FP option.
 - Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
 - Maximum ambient operating temperature (°C) when specified with HA option.
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
 - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 - Use multiplier table to calculate additional options.

PHOTOMETRY

75-4-L85/835-DIM Total Luminaire Output: 8530 lumens; 56.2 Watts | Efficacy: 152 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2896	2896	2896	
	5	2917	2887	2876	275
	15	2837	2799	2791	792
	25	2663	2624	2610	1213
	35	2415	2366	2338	1484
	45	2066	2006	1990	1552
	55	1634	1580	1560	1415
	65	1124	1069	1048	1070
	75	581	543	531	582
	85	104	116	101	144
	90	9	14	9	

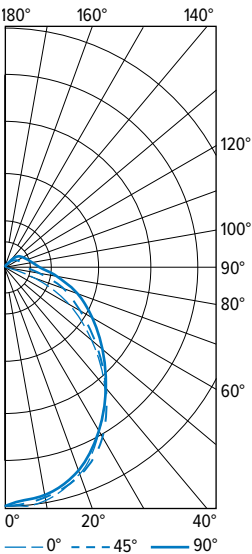
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2279	27
	0 - 40	3763	44
	0 - 60	6730	79
	0 - 90	8527	100
	0 - 180	8530	100

PHOTOMETRY CONTINUED ON NEXT PAGE.



75 LED Narrow Strip

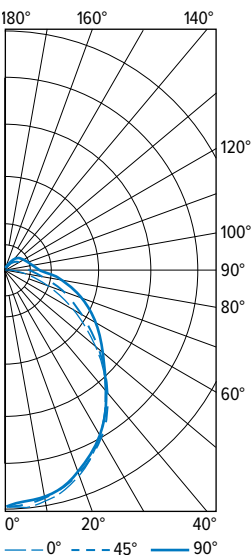
75R-4-L85/835 Total Luminaire Output: 8098 lumens; 56.2 Watts | Efficacy: 144 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2594	2594	2594	
	5	2622	2585	2553	246
	15	2503	2497	2480	703
	25	2256	2306	2324	1059
	35	1915	2042	2111	1264
	45	1481	1673	1824	1281
	55	1003	1296	1488	1135
	65	620	942	1117	891
	75	267	630	775	613
	85	63	401	501	378
	90	9	311	407	
	95	1	249	329	225
	105	0	150	219	136
	115	0	94	149	83
	125	0	53	102	47
	135	0	28	63	24
	145	0	12	35	10
	155	0	6	16	3
	165	0	0	4	0
	175	0	0	0	0
	180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2008	25
	0 - 40	3272	40
	0 - 60	5688	70
	0 - 90	7570	94
	90 - 120	443	6
	90 - 150	524	7
	90 - 180	527	7
	0 - 180	8098	100

75S-4-L85/835 Total Luminaire Output: 8098 lumens; 56.2 Watts | Efficacy: 144 lm/W | 80 CRI; 3500K CCT

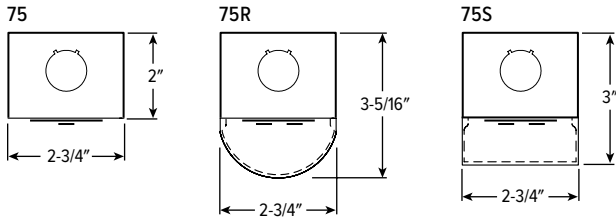


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2732	2732	2732	
	5	2756	2720	2682	258
	15	2633	2611	2579	734
	25	2351	2362	2323	1083
	35	1969	2010	1965	1247
	45	1516	1554	1583	1209
	55	1053	1160	1291	1051
	65	618	840	1022	826
	75	270	542	745	563
	85	47	323	491	332
	90	0	246	390	
	95	0	230	344	223
	105	0	200	291	185
	115	0	171	256	149
	125	0	139	216	110
	135	0	96	166	71
	145	0	58	113	38
	155	0	36	63	16
	165	0	17	31	4
	175	0	0	0	0
	180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2075	26
	0 - 40	3321	41
	0 - 60	5581	69
	0 - 90	7301	90
	90 - 120	557	7
	90 - 150	777	10
	90 - 180	797	10
	0 - 180	8098	100

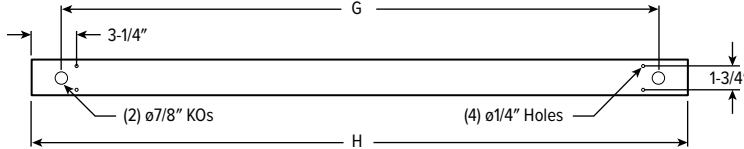


CROSS SECTIONS



FIXTURE DETAILS

BACKVIEW

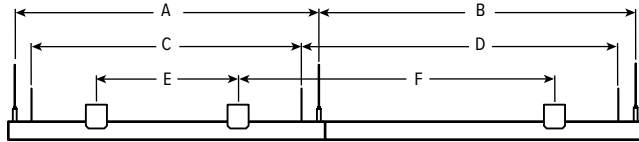


	7/8" KOs (G)	ACTUAL FIXTURE LENGTH (H)
2'	18-3/8"	22-1/2"
3'	29-1/2"	33-9/16"
4'	40-1/2"	44-5/8"
8'	85-1/8"	89-1/4"

MOUNTING DETAILS

STAND ALONE

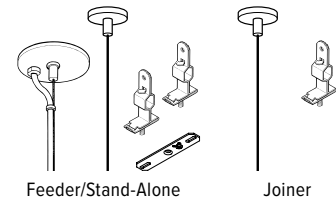
SUBSEQUENT



MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2'	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
3'	32-1/2"	33-9/16"	30-1/16"	33-9/16"	21"	33-9/16"
4'	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8'	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

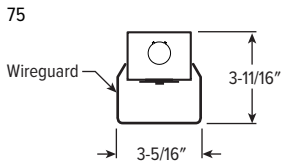
CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. ⁽¹⁾	WIRE SIZE	COLOR
S	24 24" 48 48" 96 96"	3 4 5 6	8D 18ga	/W White /B Black

¹ Includes (2) 22ga purple & pink dimming conductors

WG-75



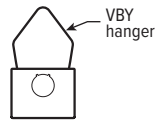
75R



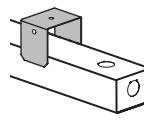
75S



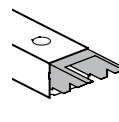
VBY



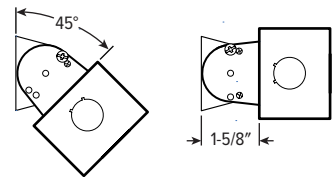
315



RA-75

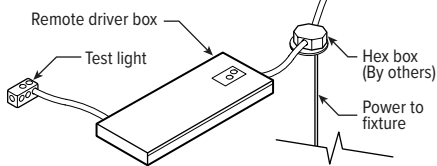


45AMB



REMOTE MOUNT BATTERY

Max remote distance 50'.

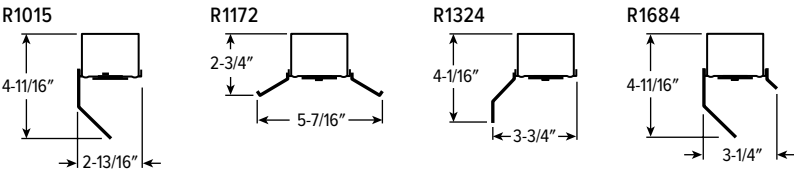


QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

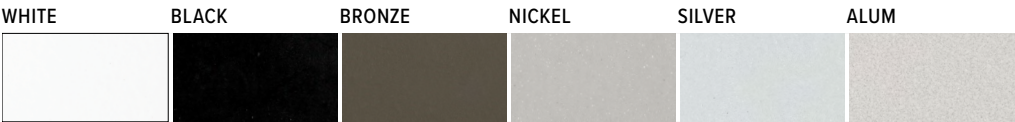
DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

SPECIAL REFLECTORS



Reflectors are ordered separately, only available with 75, cannot be used with wireguard accessories.
Example: R1172-4-75LED REFL

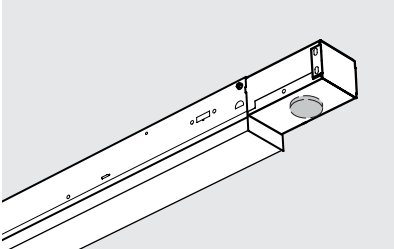
FINISH OPTIONS



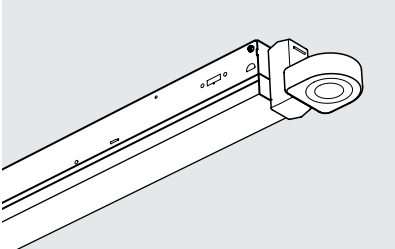
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS

AVI-LVFA | AWRN | AWNS | VDO | WS-FSP | LV-ZLS05



LV-OSFHU | SS-LSXR



SEE NEXT PAGE FOR CONTROL DETAILS.

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

Secure

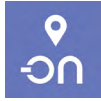
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App



Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



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ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

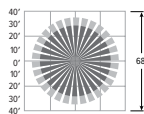
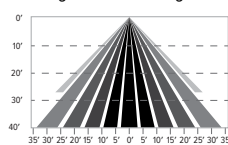
AVI-LVFA-PIR Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile apps
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS

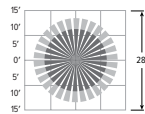
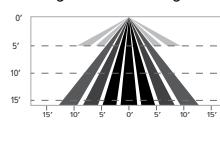
Large motion

40' height: ø68' coverage



Small motion

15' height: ø28' coverage



SENSOR DETAIL




Dimensions: 2-5/16" x 1-7/16"



75 LED Narrow Strip

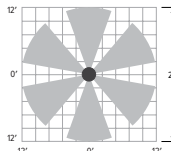
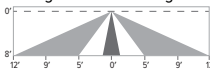
AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On
	

SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage




SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"

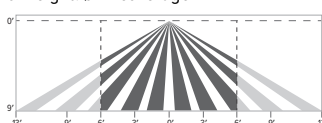
ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron
	

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

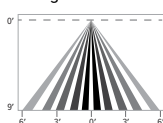
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNDR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

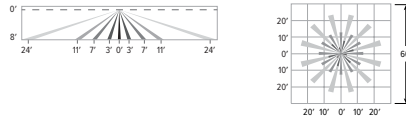


OCCWS-FSP-311-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
OCCWS-FSP-211-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
FSIR-100 Remote controller for 211 sensor. Please specify quantity required per project. Ordered and shipped separately.

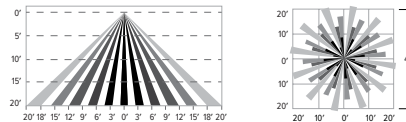
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	311 Sensor: App (iOS or Android) 211 Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

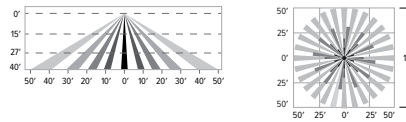
L2 8' height: ø48' coverage



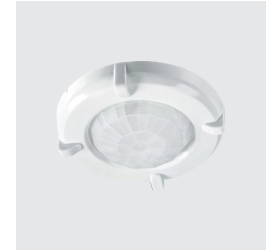
L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL



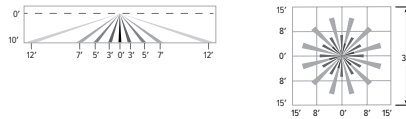
Dimensions
L2/L3: ø2-3/8" | L7: ø3-1/4"

LV-ZLS05-ILW Leviton PIR motion and daylight sensor. DA Driver only. Adjustable via remote. Optional ZLSOR-RA1 remote controller available.
ZLSOR-RA1 Remote controller for ZLS05 sensor. Please specify quantity required per project. Ordered and shipped separately.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	120°
TEMPERATURE RANGE	-20° to 70°C
COMMISSIONING	DIP switches or optional remote: ZLSOR-RA1

SENSOR COVERAGE PATTERNS

10' height: ø24' coverage



SENSOR DETAIL



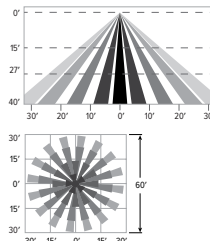
Dimensions: ø1-5/16"

OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

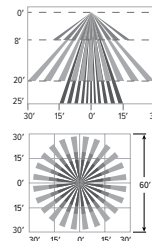
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

**High bay
40' height: ø60' coverage**



**Low bay
25' height: ø60' coverage**



SENSOR DETAIL



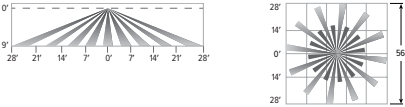
75 LED Narrow Strip

OCCSS LSXR-10-120-277 Sensor Switch PIR motion sensor, 120-277V
OCCSS LSXR-10-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	7' – 15'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS

9' height: ø56' coverage



SENSOR DETAIL

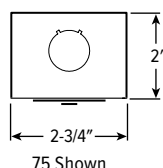


ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver





CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Small fixture profile allows inconspicuous placement in coves or confined spaces
- Round and square lensed fixtures provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption between fixtures
- Diffuse acrylic lens on 75R and 75S enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution (75 only)
- High-performance up to 164 lm/W
- Available on QuickShip
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- FINISH – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED board. See fixture performance data for lumen maintenance. 25°C maximum ambient operating temperature. 40°C maximum ambient operating temperature with HA Option, lumen restrictions apply, consult Fixture Performance Data.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS –
 - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: 75 - 4 - L85/835 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH ^[1]	LUMENS ^[2]	CRI	CCT
75	2 2'	2'	8 80	27 2700K
75R	3 3'	L15 1,500lm	9 90 ^[7]	30 3000K
75S	4 4'	L25 2,500lm		35 3500K
	8 8' ^[3]	L32 3,200lm		40 4000K
		L42 4,200lm		50 5000K
		L60 6,000lm ^[4]		
		L30 3,000lm		
		L50 5,000lm		
		L65 6,500lm		
		L85 8,500lm		
		L100 10,000lm		
		L120 12,000lm ^[5]		
		L60 6,000lm		
		L100 10,000lm		
		L200 20,000lm		
		L240 24,000lm ^[6]		

OPTIONS ^[8]

See page 5 for FINISH OPTIONS. See page 5 for SPECIAL REFLECTORS.

EM/10WLP	Low-profile 10-watt emergency battery ^[9]
EM/10WRM	Remote mount 10-watt emergency battery ^[10]
QC_	Quick-connect wiring harness. ^[11]
WG-75	11-gauge white powder coat wireguard ^[12]
315	1-1/2" ceiling spacer
VBY	(2) Y-hangers
VBY-2	(2) Y-hangers with 2' chains
RA-75	Row aligner ^[13]
45AMB	(2) 45° adjustable mounting brackets ^[14]
HA	High ambient operating temperature, 40°C ^[15]
FP	Frosted polycarbonate lens ^[16]

(L_)	Additional lower lumen packages available. ^[17] Example: 7,000 nominal lumens = 75-4-L85/835-(L70)-DIM-UNV
SP1	10kV surge protection, 120 or 277V
SP2	10kV surge protection, 208 or 240V
SP3	10kV surge protection, 347V

AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[18]

Prefix	Type	Length
ACF/	Feeder	D 1" grid & hardpan 24 24"
ACJ/	Joiner	N 9/16" grid 48 48"
		S Slot grid 96 96"

CONTROL ^[19]

See page 7 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[20]
AVI-LVFA-PIR	Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount ^[21]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount ^[22]
AWN	Lutron Athena wireless node integral fixture control, RF only ^[23]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[24]

DRIVER

See page 9 for ADDITIONAL DRIVER OPTIONS.

	VOLTAGE
120	120V
208	208V
240	240V
277	277V
UNV	120-277V
347	347V ^[27]
DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires ^[25]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) ^[26]

NOTES

- For actual length, see page 4 for FIXTURE DETAILS
- Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
- 75R and 75S ships with (2) 4' lenses.
- 75 only.
- 75 only.
- 75 only.
- Extended lead times may apply. Consult factory for availability.
- See page 4 for MOUNTING DETAILS.
- 4' and 8' only; Not available with 4' L120 and 8' L240 lumen packages.
- See page 4 for MOUNTING DETAILS.
- See page 5 for QUICK-CONNECT OPTIONS.
- Shipped separately, field-installed.
- Required when row mounting with aircraft cables.
- Cord recommended, ships separately. See page 4 for MOUNTING DETAILS. Field-adjustable up and down in 7-1/2" increments.
- Not available with 2' L60, 4' L120 and 8' L240 lumen packages. Lumen restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- 75R only.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Units specified with aircraft cable require cord and RA-75 row aligner. See page 4 for MOUNTING DETAILS.

- See page 5 for SENSOR & NODE PLACEMENT DETAILS. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- DA Driver only.
- DA Driver only.
- DA driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on, Lutron Athena, and LV-ZLS05 Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	WATTAGE	75 (NO LENS)		75R & 75s ⁽¹⁾		LUMEN MAINTENANCE ⁽²⁾				AMBIENT TEMPERATURE ⁽³⁾	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	L70	L80	L85	L90	EM	NO EM
2'	L15	10.8	1592	147	1511	140	>72000	>72000	>72000	50,000	40	40
	L25	18.2	2602	143	2470	136	>72000	>72000	>72000	50,000	40	40
	L32	21.3	3092	145	2936	138	>72000	>72000	58,000	36,000	40	40
	L42	31.4	4344	138	4124	132	>72000	>72000	58,000	36,000	35	40
	L60	43.6	6052	139	—	—	>72,000	53,000	38,000	24,000	—	—
3'	L40	28.2	4092	145	3885	138	>72000	>72000	58,000	36,000	35	40
	L64	48.2	6593	137	6259	130	>72,000	53,000	38,000	24,000	30	35
	L30	19.7	3071	156	2916	148	>72000	>72000	>72000	50,000	40	40
4'	L50	33.0	5126	155	4867	148	>72000	>72000	>72000	50,000	40	40
	L65	42.3	6313	149	5994	142	>72000	>72000	58,000	36,000	40	40
	L85	56.2	8530	152	8098	144	>72,000	53,000	38,000	24,000	35	40
	L100	68.3	10154	149	9640	141	>72000	>72000	58,000	36,000	30	30
	L120	85.9	12105	141	—	—	>72,000	53,000	38,000	24,000	—	—
	L60	35.3	5814	165	5520	157	>72000	>72000	>72000	50,000	40	40
8'	L100	65.9	10078	153	9568	145	>72000	>72000	>72000	50,000	35	35
	L130	87.9	13011	148	12353	141	>72000	>72000	58,000	36,000	35	35
	L170	112.4	17060	152	16197	144	>72,000	53,000	38,000	24,000	35	35
	L200	136.5	20309	149	19281	141	>72000	>72000	58,000	36,000	30	30
	L240	171.7	24208	141	—	—	>72,000	53,000	38,000	24,000	—	—

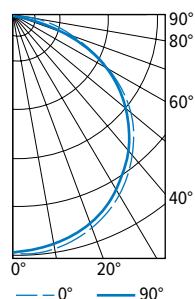
MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

- Use 0.95 multiplier for the 75R when specified with the FP option.
 - Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
 - Maximum ambient operating temperature (°C) when specified with HA option.
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
 - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 - Use multiplier table to calculate additional options.

PHOTOMETRY

75-4-L85/835-DIM Total Luminaire Output: 8530 lumens; 56.2 Watts | Efficacy: 152 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2896	2896	2896	
	5	2917	2887	2876	275
	15	2837	2799	2791	792
	25	2663	2624	2610	1213
	35	2415	2366	2338	1484
	45	2066	2006	1990	1552
	55	1634	1580	1560	1415
	65	1124	1069	1048	1070
	75	581	543	531	582
	85	104	116	101	144
	90	9	14	9	

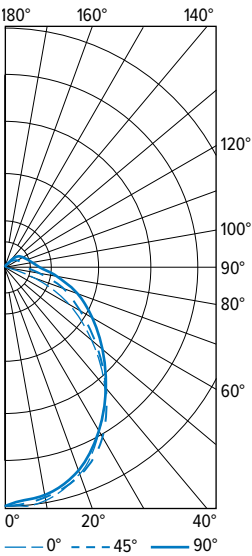
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2279	27
	0 - 40	3763	44
	0 - 60	6730	79
	0 - 90	8527	100
	0 - 180	8530	100

PHOTOMETRY CONTINUED ON NEXT PAGE.



75 LED Narrow Strip

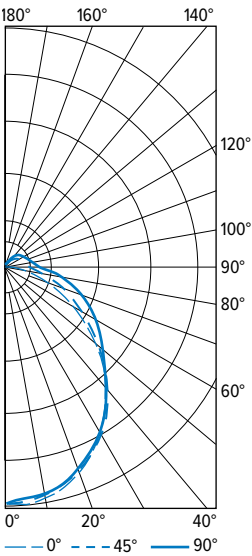
75R-4-L85/835 Total Luminaire Output: 8098 lumens; 56.2 Watts | Efficacy: 144 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2594	2594	2594	
5	2622	2585	2553	246
15	2503	2497	2480	703
25	2256	2306	2324	1059
35	1915	2042	2111	1264
45	1481	1673	1824	1281
55	1003	1296	1488	1135
65	620	942	1117	891
75	267	630	775	613
85	63	401	501	378
90	9	311	407	
95	1	249	329	225
105	0	150	219	136
115	0	94	149	83
125	0	53	102	47
135	0	28	63	24
145	0	12	35	10
155	0	6	16	3
165	0	0	4	0
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2008	25
	0 - 40	3272	40
	0 - 60	5688	70
	0 - 90	7570	94
	90 - 120	443	6
	90 - 150	524	7
	90 - 180	527	7
	0 - 180	8098	100

75S-4-L85/835 Total Luminaire Output: 8098 lumens; 56.2 Watts | Efficacy: 144 lm/W | 80 CRI; 3500K CCT

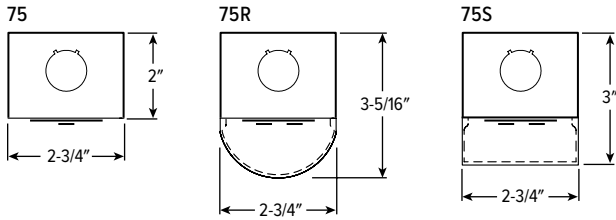


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2732	2732	2732	
5	2756	2720	2682	258
15	2633	2611	2579	734
25	2351	2362	2323	1083
35	1969	2010	1965	1247
45	1516	1554	1583	1209
55	1053	1160	1291	1051
65	618	840	1022	826
75	270	542	745	563
85	47	323	491	332
90	0	246	390	
95	0	230	344	223
105	0	200	291	185
115	0	171	256	149
125	0	139	216	110
135	0	96	166	71
145	0	58	113	38
155	0	36	63	16
165	0	17	31	4
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2075	26
	0 - 40	3321	41
	0 - 60	5581	69
	0 - 90	7301	90
	90 - 120	557	7
	90 - 150	777	10
	90 - 180	797	10
	0 - 180	8098	100

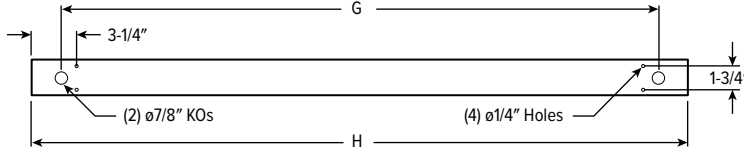


CROSS SECTIONS



FIXTURE DETAILS

BACKVIEW

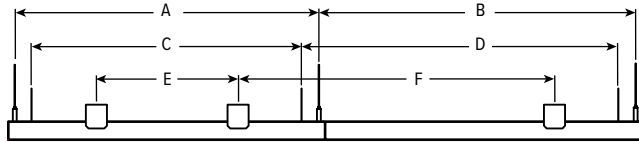


	7/8" KOs (G)	ACTUAL FIXTURE LENGTH (H)
2'	18-3/8"	22-1/2"
3'	29-1/2"	33-9/16"
4'	40-1/2"	44-5/8"
8'	85-1/8"	89-1/4"

MOUNTING DETAILS

STAND ALONE

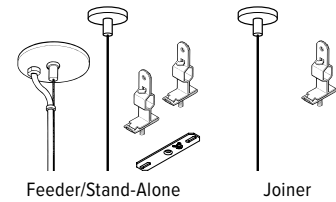
SUBSEQUENT



MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2'	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
3'	32-1/2"	33-9/16"	30-1/16"	33-9/16"	21"	33-9/16"
4'	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8'	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

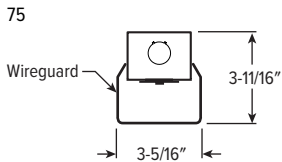
CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. ⁽¹⁾	WIRE SIZE	COLOR
S	24 24" 48 48" 96 96"	3 4 5 6	8D 18ga	/W White /B Black

¹ Includes (2) 22ga purple & pink dimming conductors

WG-75



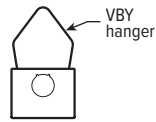
75R



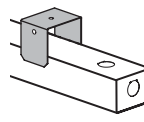
75S



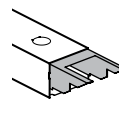
VBY



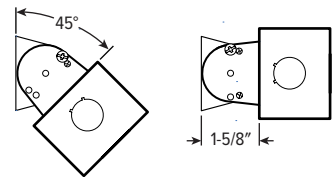
315



RA-75

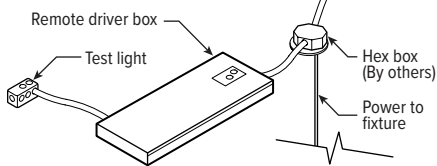


45AMB



REMOTE MOUNT BATTERY

Max remote distance 50'.

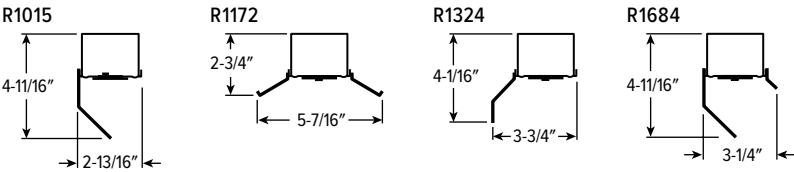


QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

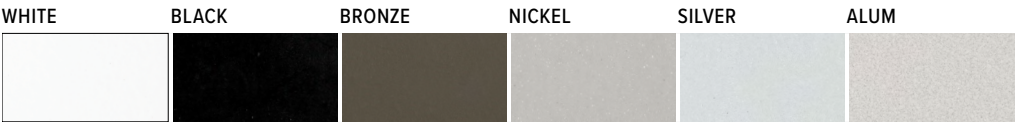
DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

SPECIAL REFLECTORS



Reflectors are ordered separately, only available with 75, cannot be used with wireguard accessories.
Example: R1172-4-75LED REFL

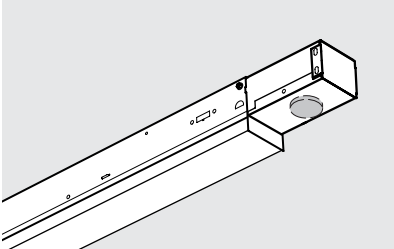
FINISH OPTIONS



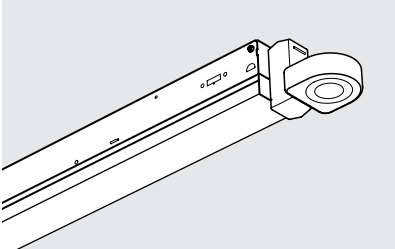
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS

AVI-LVFA | AWRN | AWNS | VDO | WS-FSP | LV-ZLS05



LV-OSFHU | SS-LSXR



SEE NEXT PAGE FOR CONTROL DETAILS.

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

Secure

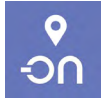
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App



Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

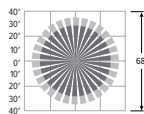
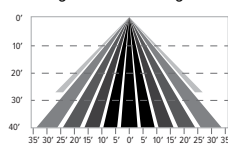
AVI-LVFA-PIR Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile apps
MANUFACTURER	Avi-On

SENSOR COVERAGE PATTERNS

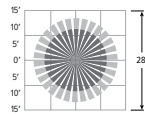
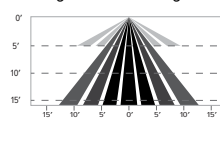
Large motion

40' height: ø68' coverage



Small motion

15' height: ø28' coverage



SENSOR DETAIL




Dimensions: 2-5/16" x 1-7/16"



75 LED Narrow Strip

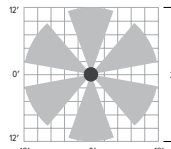
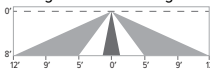
AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On
	

SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage




SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"

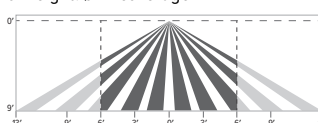
ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron
	

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

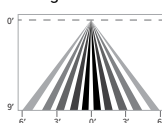
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNDR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

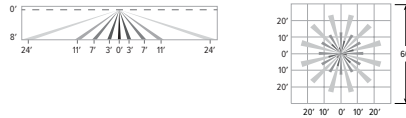


OCCWS-FSP-311-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
OCCWS-FSP-211-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
FSIR-100 Remote controller for 211 sensor. Please specify quantity required per project. Ordered and shipped separately.

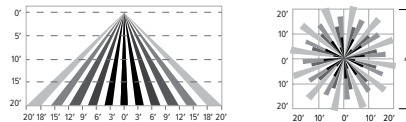
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	311 Sensor: App (iOS or Android) 211 Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

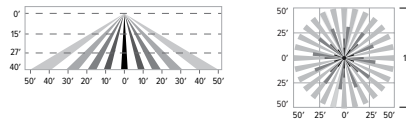
L2 8' height: ø48' coverage



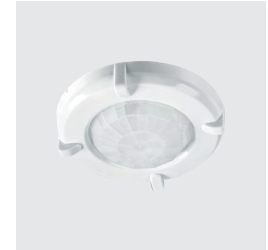
L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL



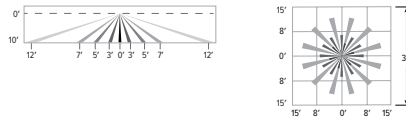
Dimensions
L2/L3: ø2-3/8" | L7: ø3-1/4"

LV-ZLS05-ILW Leviton PIR motion and daylight sensor. DA Driver only. Adjustable via remote. Optional ZLSOR-RA1 remote controller available.
ZLSOR-RA1 Remote controller for ZLS05 sensor. Please specify quantity required per project. Ordered and shipped separately.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	120°
TEMPERATURE RANGE	-20° to 70°C
COMMISSIONING	DIP switches or optional remote: ZLSOR-RA1

SENSOR COVERAGE PATTERNS

10' height: ø24' coverage



SENSOR DETAIL



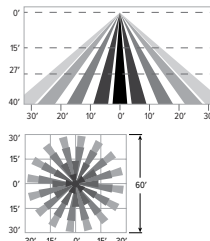
Dimensions: ø1-5/16"

OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

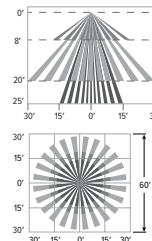
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

**High bay
40' height: ø60' coverage**



**Low bay
25' height: ø60' coverage**



SENSOR DETAIL

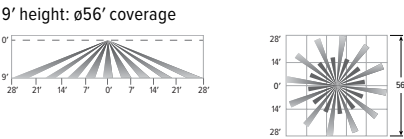


75 LED Narrow Strip

OCCSS LSXR-10-120-277 Sensor Switch PIR motion sensor, 120-277V
OCCSS LSXR-10-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	7' – 15'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS



SENSOR DETAIL



ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

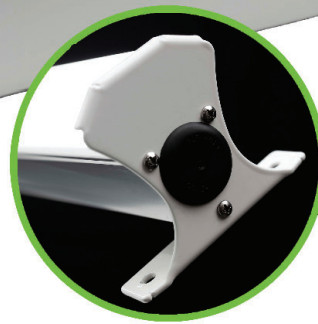
CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver



LUXTM. HIGHline

LUXTM
dynamics

Extruded aluminum architectural and task lighting LED luminaire for use in applications including, but not limited to subways, parking garages, airports, and office spaces.



Performance

- Lumen output: **Up to 4,550 lumens per foot**
- Efficacy: **Up to 161 Lumens per Watt**
- L₇₀ (per TM-21): **72,000 Hours**
- L₇₀ (calculated): **147,000 Hours**
- Ambient Temp. Rating: **-40°F to 113°F (-40°C to 45°C)**
Ambient temperature rating varies for auxiliary components
- Surge Protection: **6kV**
- Driver: **120-277V input, 0-10V Dimming (1% min. optional)**
347-480V input, 0-10V Dimming (1% min. optional)

Construction

- Extruded 6463 aluminum construction
- Stainless-steel hardware
- Bright dip anodized fixture body

Optics

- Wide 120° beam angle LEDs
- Diffusing lens available in frosted and clear material
- Lens may be acrylic or polycarbonate material

Warranty

- 10-Year Warranty on fixture body
- 5-Year Warranty on electronics
- For special requests, contact factory

Applications

- Office/Commercial
- Education
- Industrial/Task
- Inspection
- Parking Garage
- Natatorium
- Gymnasium

Installation

- Aircraft cable suspension
- Surface mounting
- For special requests, contact factory

Listings and Ratings

- UL 1598 for Dry, Damp, and Wet Locations
- ARRA Compliant (Made in America)
- DLC Listed
- IP55 Rated
- Exceeds IK10 impact rating with polycarbonate lenses
- IK10 rating does not apply to acrylic lenses
- 3G Vibration Rated
- ARRA/BAA Compliant
- Conformal coated LED modules for WET locations



Delivered lumens with 3500K color / WA lens		Other color rendering indexes and color temperatures are available. Consult factory.		Other driver options available. Consult factory.	
Series	Length	CRI / CCT		Voltage and Dimming	
HIGH	2	7,744lm	865 80CRI 6500K	U10	120-277V 0-10V dimming 10% min.
	4	15,488lm	857 80CRI 5700K	U1	120-277V 0-10V dimming 1% min.
	8	30,976lm	850 80CRI 5000K	H10	347-480V 0-10V dimming 10% min.
			840 80CRI 4000K	H1	347-480V 0-10V dimming 1% min.
			835 80CRI 3500K		
			830 80CRI 3000K		
			827 80CRI 2700K		
			950 90CRI 5000K		
			940 90CRI 4000K		
			935 90CRI 3500K		
			927 90CRI 2700K		
			TW Tunable White		
			RGBW RGB with XXX		
			GREYED options not stocked and may need additional lead time		
				Dimming curves and other operating characteristics may vary between models	

Some CRI, CCT and other output variations may affect DLC listing; contact LUX for further information.

Options and Accessories

Endcap

HM	Hanger mount
SM	3G rated surface mount
TM	Tandem hanger or surface mount
AIM	Rotatable surface mount bracket

TM and AIM endcaps NOT acceptable for WET locations
Standard powdercoat white, contact LUX for options

Lensing

CA	Clear acrylic diffuse lens
CP	Clear polycarbonate diffuse lens
WA	White acrylic diffuse lens (standard)
WP	White polycarbonate diffuse lens

"2", "4", or "8" denotes fixture length

Lumen/Wattage Output

CFO	Custom fixture output (specify custom lumen output or wattage lower than standard)
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Emergency

E20RL	20-watt remote battery available, contact LUX for options
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Mounting

2Pxx	2-point aircraft cable suspension - hook ends (galvanized)
2PxxS	2-point aircraft cable suspension - hook ends (stainless-steel)
SM	Surface mount, no additional hardware

20' and 30' cable lengths available, contact Factory for details

Cord

(leave blank)	No cord provided
3/10	3-wire, 10' cord
4/10	4-wire, 10' cord
5/10	5-wire, 10' cord
6/10	6-wire, 10' cord

Other cord lengths available as well as multi-circuit wiring and through-wiring options.

Standard 1/2" knockout provided in endcap for cord installation.
1st digit: Number of wires, including ground. Available from 3 through 6.
2nd digit: Overall length, including strips. Available from 10' through 30'.

Finish

(leave blank)	Standard natatorium-grade bright dip anodized aluminum and white powdercoat endcaps, shown on specification sheet
M	Mill finish endcaps, standard bright dip anodized aluminum body
PC	Custom color by powdercoat. Must specify RAL number for endcap finish.
BLKG	Glossy black finish on all components
BLKM	Matte black finish on all components

Custom color anodized aluminum available in 2' configurations, consult Factory.

Controls

OC-KO	Knockout mounted on/off occupancy sensor (120-277V input)
DO-KO	Knockout mounted daylight harvesting sensor (120-277V input)
Wireless Controls	Multiple wireless control systems available. Contact Factory for options and details

Powerfeed

(leave blank)	Power fed through endcap knockout
WB	Wire through body, power feed through milled hole in fixture channel

Application (Select all that apply)

WET	Wet location	(Includes conformal coated LED modules)
COR*	Caustic and natatorium environments	(Includes conformal coated LED modules)
TC	Tennis court	(Polycarbonate lensing recommended)
MFG	Manufacturing or industrial	
WHS	Warehousing or storage	
HNG	Hangar	
GYM	Gymnasium or sports court	(Polycarbonate lensing required)
AFH	Arena or fieldhouse	(Polycarbonate lensing recommended)
ARCH	Architectural	(White lensing recommended)
ICE	Ice rink	(Polycarbonate lensing recommended)
GAR	Garage or canopy	
FRZ	Freezer or cold storage	

*COR application not suitable for all caustic environments, consult Factory

Lensing required for WET and COR applications

AIM endcap not suitable for WET applications

Consult Factory for cost adders for WET and COR applications

Lensing Multipliers

Lens	
Standard/Nominal = WA Lens	
Lumen Multipliers Compared to "Nominal"	
CA	107.3%
CP	101.2%
WA (nominal)	100.0%
WP	77.5%

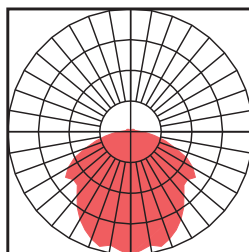
CCT	
Standard/Nominal = 3500K CCT	
Lumen Multipliers Compared to "Nominal"	
6500K	100.0%
5700K	100.0%
5000K	103.2%
4000K	103.9%
3500K (nominal)	100.0%
3000K	95.0%
2700K	90.0%

CRI	
Standard/Nominal = 80 CRI	
Lumen Multipliers Compared to "Nominal"	
80 CRI (nominal)	100.0%
90 CRI Options	
6500K (90 CRI)	84.9%
5700K (90 CRI)	85.2%
5000K (90 CRI)	85.2%
4000K (90 CRI)	85.2%
3500K (90 CRI)	83.5%
3000K (CRI 90)	81.0%
2700K (CRI 90)	76.6%

Optical Distribution Variations

Lensed (CA, CP, WA, or WP)

Achieved using any of our standard lenses

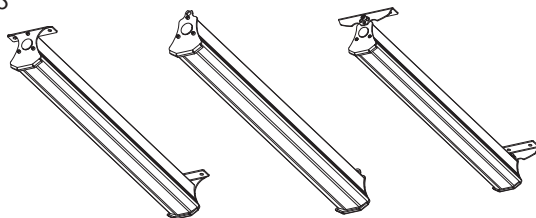


Technical Specifications

Part

HIGH-2-850 (for 5000K), HIGH-2-840 (for 4000K) or HIGH-2-835 (for 3500K)

- 23.14"L x 3.75"W x 3.34"H
- Weight: 3 LBS



3500K

HIGH-2-835			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-2-835-U10-xx-CA	8,309	53.48	155
HIGH-2-835-U10-xx-CP	7,837	53.48	147
HIGH-2-835-U10-xx-WA	7,744	53.48	145
HIGH-2-835-U10-xx-WP	6,006	53.48	112

4000K

HIGH-2-840			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-2-840-U10-xx-CA	8,631	53.48	161
HIGH-2-840-U10-xx-CP	8,141	53.48	152
HIGH-2-840-U10-xx-WA	8,044	53.48	150
HIGH-2-840-U10-xx-WP	6,239	53.48	117

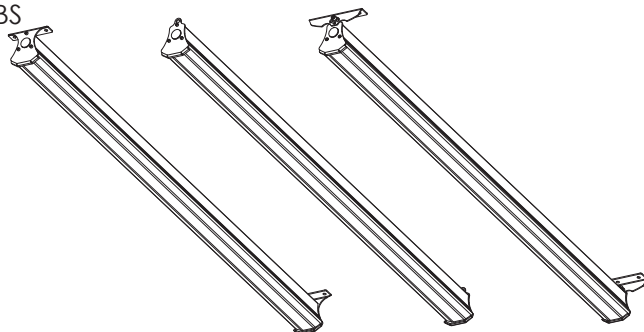
5000K

HIGH-2-850			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-2-850-U10-xx-CA	8,572	53.48	160
HIGH-2-850-U10-xx-CP	8,085	53.48	151
HIGH-2-850-U10-xx-WA	7,989	53.48	149
HIGH-2-850-U10-xx-WP	6,196	53.48	116

Part

HIGH-4-850 (for 5000K), HIGH-4-840 (for 4000K) or HIGH-4-835 (for 3500K)

- 46.20"L x 3.75"W x 3.34"H
- Weight: 6 LBS



3500K

HIGH-4-835			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-4-835-U10-xx-CA	16,619	106.96	155
HIGH-4-835-U10-xx-CP	15,674	106.96	147
HIGH-4-835-U10-xx-WA	15,488	106.96	145
HIGH-4-835-U10-xx-WP	12,012	106.96	112

4000K

HIGH-4-840			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-4-840-U10-xx-CA	17,263	106.96	161
HIGH-4-840-U10-xx-CP	16,281	106.96	152
HIGH-4-840-U10-xx-WA	16,095	106.96	150
HIGH-4-840-U10-xx-WP	12,477	106.96	117

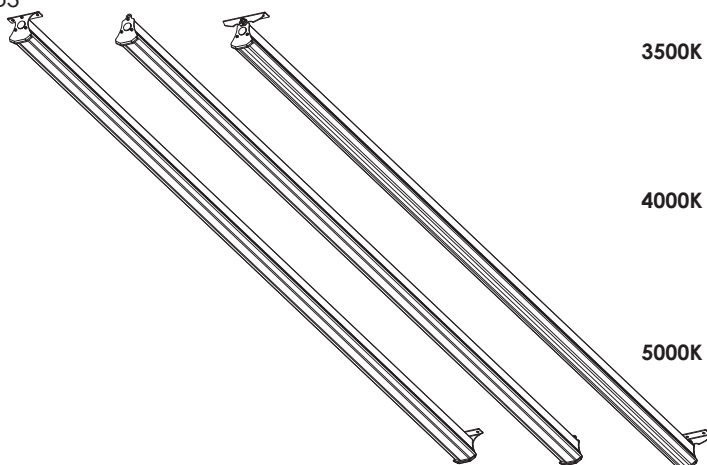
5000K

HIGH-4-850			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-4-850-U10-xx-CA	17,145	106.96	160
HIGH-4-850-U10-xx-CP	16,170	106.96	151
HIGH-4-850-U10-xx-WA	15,978	106.96	149
HIGH-4-850-U10-xx-WP	12,392	106.96	116

Part

HIGH-8-850 (for 5000K), HIGH-8-840 (for 4000K) or HIGH-8-835 (for 3500K)

- 91.20"L x 3.75"W x 3.34"H
- Weight: 11 LBS



3500K

HIGH-8-835			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-8-835-U10-xx-CA	33,238	213.91	155
HIGH-8-835-U10-xx-CP	31,348	213.91	147
HIGH-8-835-U10-xx-WA	30,976	213.91	145
HIGH-8-835-U10-xx-WP	24,025	213.91	112

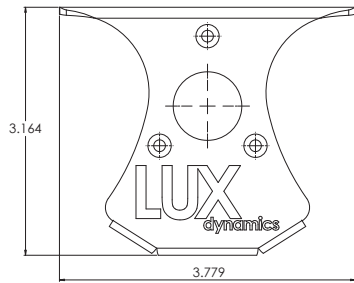
4000K

HIGH-8-840			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-8-840-U10-xx-CA	34,525	213.91	161
HIGH-8-840-U10-xx-CP	32,562	213.91	152
HIGH-8-840-U10-xx-WA	32,190	213.91	150
HIGH-8-840-U10-xx-WP	24,955	213.91	117

5000K

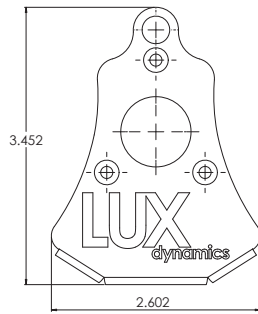
HIGH-8-850			
Lens Option	Delivered Lumens	Wattage	Efficacy
HIGH-8-850-U10-xx-CA	34,289	213.91	160
HIGH-8-850-U10-xx-CP	32,340	213.91	151
HIGH-8-850-U10-xx-WA	31,956	213.91	149
HIGH-8-850-U10-xx-WP	24,785	213.91	116

Endcap Option Details



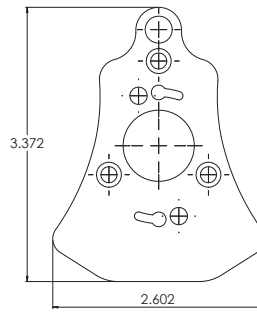
Surface Mount

Surface mount endcap
(surface-mounting hardware
provided by others)



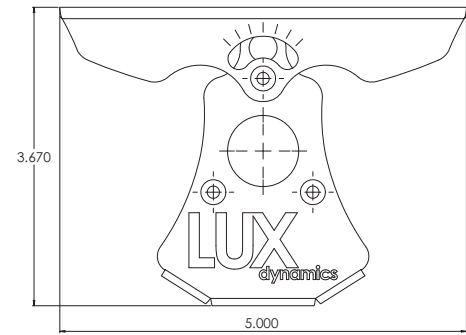
Hanger Mount

2Pxx, 2PxxS: Aircraft cable
mounting with snap hooks (xx
denotes cable length)



Tandem Mount

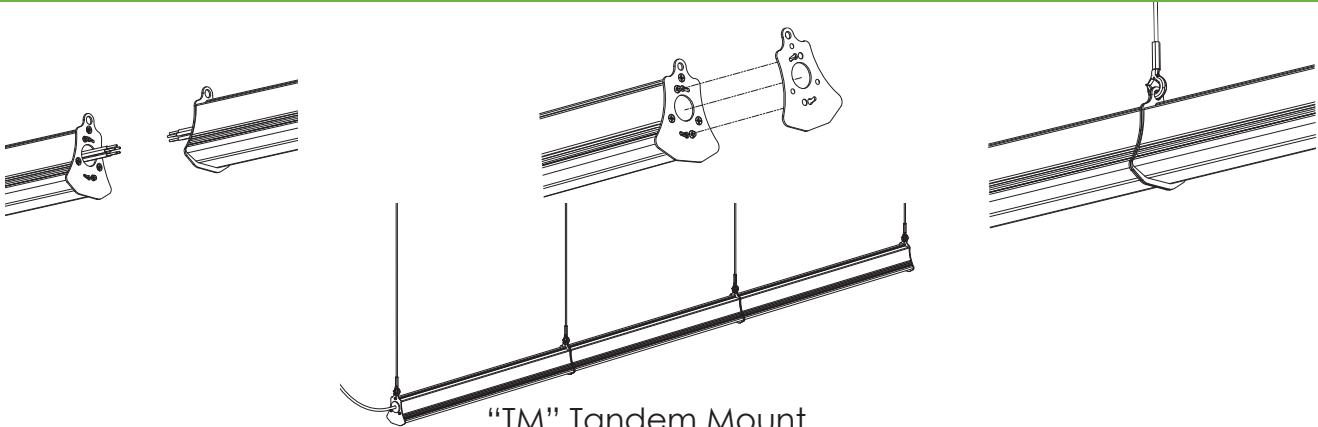
2Pxx, 2PxxS: Aircraft cable
mounting with snap hooks (xx
denotes cable length)



Rotatable Surface Mount

Rotatable surface mount endcap
(surface-mounting hardware
provided by others)

Tandem Mount



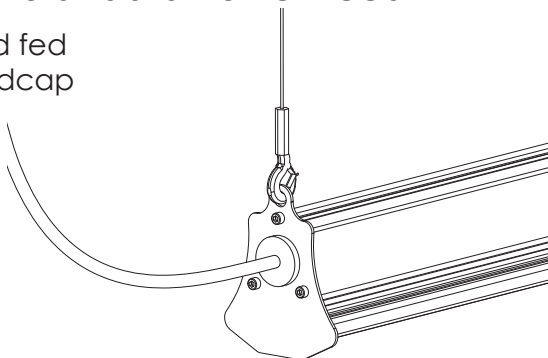
**“TM” Tandem Mount
Hanger Mounting**

- Consult factory for tandem mounting options
- Near seamless runs of fixtures in 2', 4', and 8' increments
- Tandem-bracket locking mechanism allows for easy installation
- Run length limitations may exist depending on application
- Wire connectors provided to splice tandem fixtures together

Electrical Connections

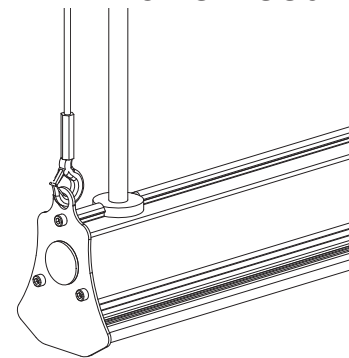
Standard Power Feed

Power cord fed
through endcap



“WB” Power Feed

Power cord
fed through
machined
hole in
electronics
channel



SRS Series

Straight Round Steel Poles

Rev. Date: V9 06/24/2024

Product Description

Non-tapered round steel poles are supplied with a formed composite 2-piece base cover, four partially galvanized anchor bolts, cardboard mounting template and pole cap (except open top mount). Steel pole base has slotted holes to accommodate installation. A standard 2" x 4" hand hole is located 14" above the bottom of the pole base. A 1/2" stainless-steel weld stud with grounding lug is located inside the pole, opposite the hand hole.

Cree Lighting poles are steel shot cleaned to remove any rust, mill scale, oxides, or other unwanted particles from the pole resulting in a surface preparation that exceeds the specifications published by the SSPC-SP10. Iron phosphate is then applied, creating an iron oxide base with a flat or amorphous metal phosphate topcoat. This coating significantly adds to the performance of the finished coating by improving bonding and minimizing the spread of oxidation if the coating is scratched, improving corrosion resistance. Polyester powder coating is applied to a 6-mil thickness.

CONSTRUCTION & MATERIALS

- Round, non-tapered pole of structural steel tubing (ASTM A 500 Grade B) with a minimum yield strength of 46,000 p.s.i. welded to a carbon steel base plate (ASTM A-36 HRS) with a minimum yield strength of 36,000 p.s.i.
- Anchor bolts (F1554 Grade 55) are "L" bent bars having a minimum yield strength of 55,000 p.s.i. The bolts are partially galvanized per ASTM A153 specifications and furnished complete with two hex nuts and two flat washers
- Base cover is 2 pc. formed composite to match finish color on pole. Base cover connects with four push pins included
- Pole cap is black ABS composite and inserts into the top of the pole
- Optional GFI receptacle available. Refer to page 2 for details

REGULATORY & VOLUNTARY QUALIFICATIONS

- National Electrical Code Requirements
- UL Listed in US for electrical ground bonding
- CSA Certified in Canada for ground bonding and structural strength
- RoHS Compliant (consult factory for details)
- Meets requirements of BAA and/or BABA when ordered with US option. Consult factory when needed for a project: www.creelighting.com/BAA-BABA

LIMITED WARRANTY*


- 7 years for pole and tenons/7 years for finish/1 year for GFI receptacle

*See <https://www.creelighting.com/resources/warranties/> for warranty terms

Ordering Information

Fully assembled pole is composed of two components that must be ordered separately.

Example: **Anchor Bolts w/Template:** SRS-5-AB-3/4-28 + **Pole:** SRS-5-11-12-SW-BS-1D-C-BK

Anchor Bolts /Templates (Pole must be ordered separately)											
SRS-5-AB-3/4-28											
SRS-5-AB-3/4-28 Anchor Bolts & Template for 5" Round Poles: 0.75" anchor bolts, 8.5" bolt circle (8-9" range)											
Pole (Anchor bolts must be ordered separately)											
SRS			5	11		SW	BS				
Design	Cross Section	Material	Shaft Size	Wall Thickness (GA)	Mounting Height	Base Type	Base Casting/ Cover	Mounting Configuration	Fixture Mounting Drill Pattern**	Finish	Options
S Straight	R Round	S Steel	5 = 5"	11 11 gauge (0.125")	12 = 12' 15 = 15' 17 = 17' 20 = 20' 22 = 22' 25 = 25' 27 = 27' 30 = 30'	SW Standard Weld	BS Standard Formed Composite	<u>Drilled Poles</u> 1D Drilled for Direct Mount (Single) 2D90 Drilled for Direct Mount (2@90deg) 2D18 Drilled for Direct Mount (2@180deg) 3D90 Drilled for Direct Mount (3@90deg) 4D90 Drilled for Direct Mount (4@90deg) <u>Open Top Poles</u> OT* Open top to accept internal mount tenons or brackets	 <u>Use w/Drilled Poles</u> C Standard Cree Lighting Drill Pattern - For use with Cree Lighting and C-LITE® area/flood luminaires except OSQX Q OSQX Drill Pattern - Drill Pattern for use only with OSQX luminaires <u>Use w/Open Top Poles</u> N None - Required with OT mounting configuration	BK Black BZ Bronze SV Silver WH White	GFI GFI Receptacle - Available only with 5" poles - Located 28" above the base of the pole on same side as hand hole. Consult factory for placement in other locations. US BAA/BABA Compliant - Must be specified prior to order

* Order tenon separately. Refer to [Bracket and Tenons spec sheet](#) for additional information.

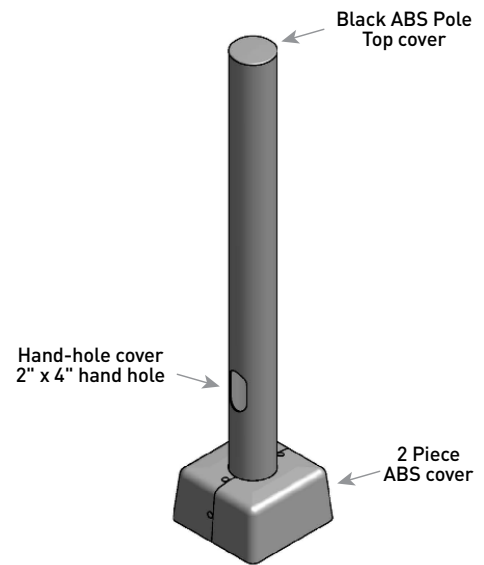
** Refer to page 3 for fixture mounting patterns.

CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov



Website: creelighting.com

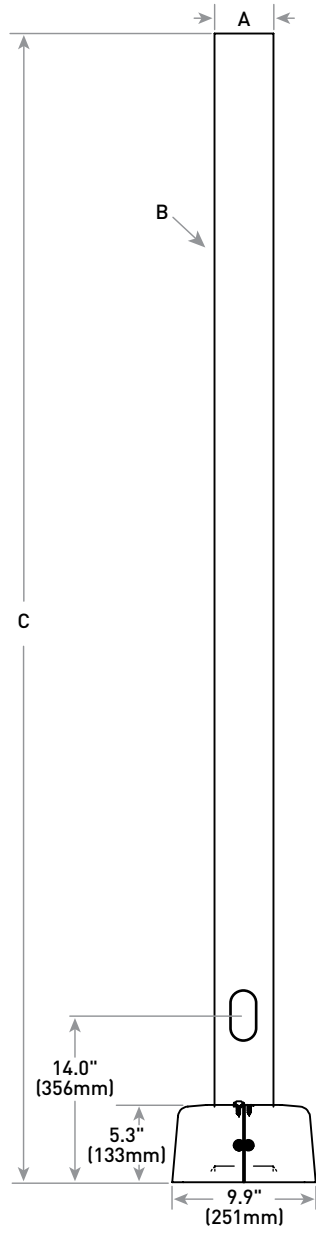
US: (800) 236-6800 Canada: (800) 473-1234



Note: Poles must be unwrapped upon delivery.

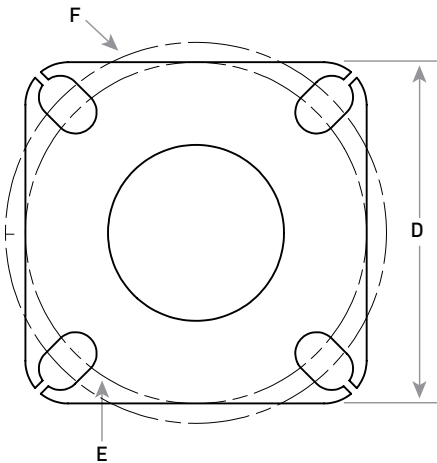
CREE **LIGHTING**

Pole Drawing



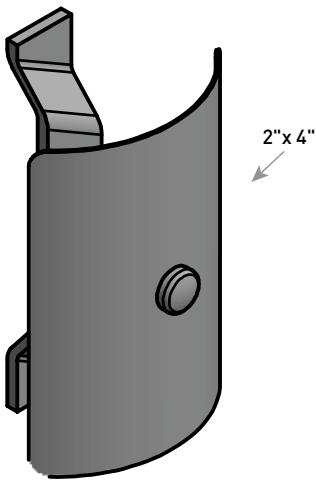
Refer to page 4 for dimensions A-F. Dimensions are based on pole selection.

Base Plate Detail

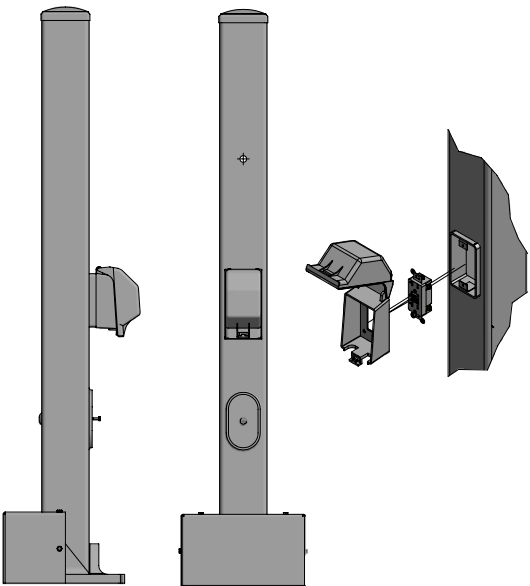


Refer to page 4 for dimensions A-F. Dimensions are based on pole selection.

Hand Hole Cover Drawing



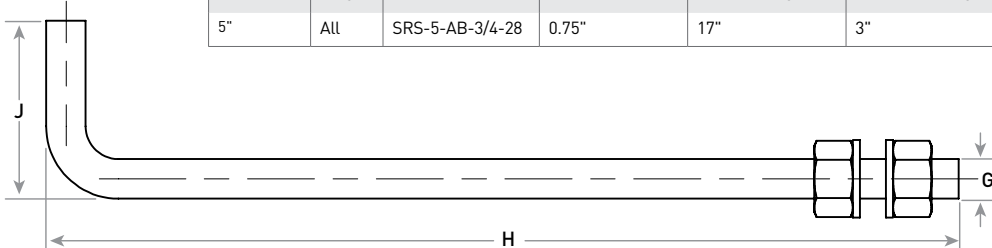
Optional GFI (shown on square pole)



CONSTRUCTION & MATERIALS

- Heavy-duty steel construction
- Lockable security cover
- Includes adapter plates and foam gasket
- 20A, 120V, 60Hz GFCI, and cover also included
- 3-1/4" internal depth
- Standard GFI is located 28" above the pole base on the same side as the hand hole. Consult factory for placement in other locations
- Weatherproof while in use
- Meets NEC Extra Duty requirements
- Receptacle and cover ship separately in hardware bag

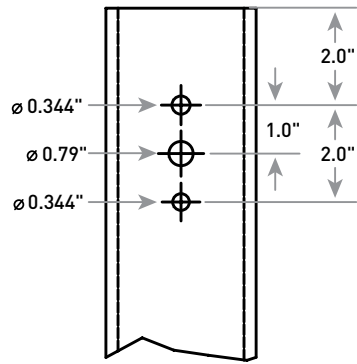
Anchor Bolt Detail



Pole Diameter	Pole Height	Part Number	Anchor Bolt Diameter (G)	Anchor Bolt Vertical Length (H)	Anchor Bolt Horizontal Length (J)	Bolt Circle/Range
5"	All	SRS-5-AB-3/4-28	0.75"	17"	3"	8"/8-9"

Fixture Mounting Drill Patterns

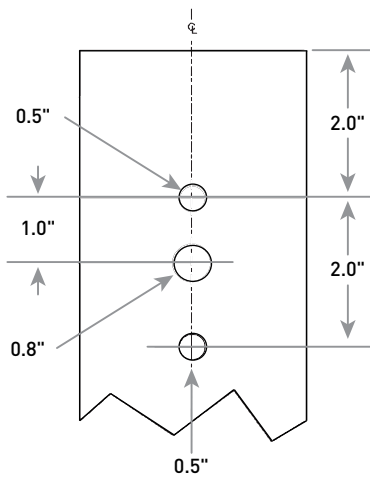
C - Standard Cree Lighting Fixture Mounting Drill Pattern



N - Open Top Mounting Configuration



Q - OSQX Mounting Drill Pattern



Field-Installed Accessories

Vibration Dampeners

SSS-ACC-VIB-DMPNR-10-15FT (for 10'-15' poles)
 SSS-ACC-VIB-DMPNR-16-20FT (for 16'-20' poles)
 SSS-ACC-VIB-DMPNR-21-25FT (for 21'-25' poles)
 SSS-ACC-VIB-DMPNR-26-30FT (for 26-30' poles)
 - Chain encased in plastic tubing used to minimize the effects caused by wind-induced Aeolian vibration

Tenon EPA

Part Number	EPA
PB-1R5.00	0.92
PB-2R5.00	0.92
PB-3R5.00	1.62
PB-4R5.00	2.32
PB-4R5.0(90)	1.21
XA-TMDA8	0.19

Tenons and Brackets[†] (must specify color)

Round External Mount Vertical Tenons (Steel)

- Mounts to 5.0" (127mm) O.D. round aluminum or steel poles or tenons
- Not for use with THE EDGE® Area Round Post Top mounts

PB-1R5.00 – Single PB-2R5.00 – Twin
 PB-3R5.00 – Triple PB-4R5.00 – Quad
 PB-4R5.0(90) – Quad @ 90°

Direct Arm Pole Adaptor Bracket (Aluminum)

- Mounts to 3-6" [76-152mm] round or square aluminum or steel poles
 - For use with horizontal tenon mounts that require extended tenon length
 - Not for use with OSQX Area/Flood luminaires
- XA-TMDA8

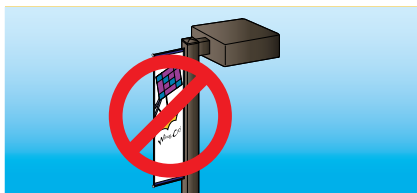
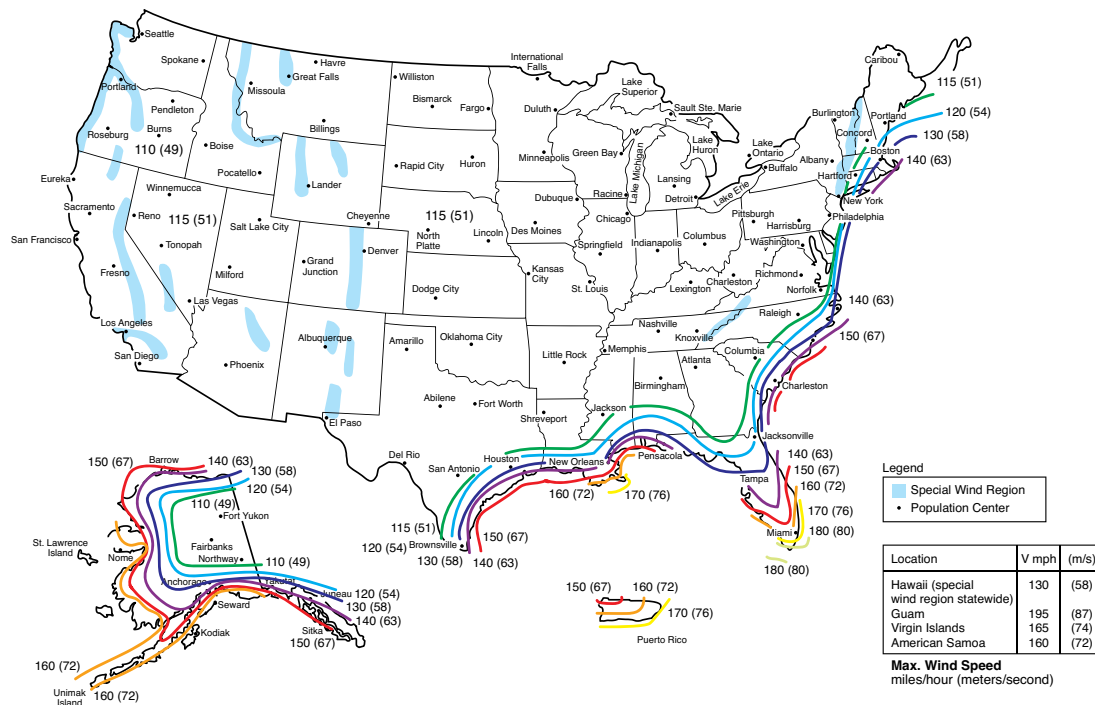
[†] Refer to the [Bracket and Tenons spec sheet](#) for more details on tenons. Refer to product specification sheets for compatible tenons.

Dimensions, EPA & Weight

Product	Face (A) x Wall (B) x Height (C)	Base Plate (D) x Thickness	Bolt Circle/Range Min (E) -Max (F)	Pole EPA Rating per AASHTO LRFDLTS-1																Approx. Shipping Weight
				115 MPH		120 MPH		130 MPH		140 MPH		150 MPH		160 MPH		170 MPH		180 MPH		
				150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	
SRS-5-11-12-SW-BS	5" x 11 ga. x 12'	8" x 0.75" Thick	8.5"/8-9"	17.6	16.5	16.0	15.0	13.5	12.6	11.5	10.8	9.9	9.3	8.6	8.0	7.5	7.0	6.6	6.2	120 lbs.
SRS-5-11-15-SW-BS	5" x 11 ga. x 15'	8" x 0.75" Thick	8.5"/8-9"	12.7	11.8	11.4	10.7	9.6	8.9	8.4	7.5	6.9	6.4	5.9	5.5	5.2	4.8	4.5	4.2	144 lbs.
SRS-5-11-17-SW-BS	5" x 11 ga. x 17'	8" x 0.75" Thick	8.5"/8-9"	9.5	8.8	8.5	7.8	7.0	6.5	5.9	5.4	5.0	4.6	4.2	3.9	3.6	3.3	3.2	2.9	161 lbs.
SRS-5-11-20-SW-BS	5" x 11 ga. x 20'	8" x 0.75" Thick	8.5"/8-9"	6.6	6.0	5.8	5.3	4.7	4.3	3.9	3.5	3.2	2.8	2.7	2.3	2.2	1.9	1.9	1.6	186 lbs.
SRS-5-11-22-SW-BS	5" x 11 ga. x 22'	8" x 0.75" Thick	8.5"/8-9"	4.5	4.0	3.9	3.4	3.1	2.7	2.4	2.1	1.9	1.7	1.6	1.3	1.2	0.9	1.0	0.8	202 lbs.
SRS-5-11-25-SW-BS	5" x 11 ga. x 25'	8" x 0.75" Thick	8.5"/8-9"	2.5	2.1	2.0	1.6	1.4	1.0	1.0	0.7	0.7	0.4	0.4	N/A	N/A	N/A	N/A	N/A	225 lbs.
SRS-5-11-27-SW-BS	5" x 11 ga. x 27'	8" x 0.75" Thick	8.5"/8-9"	1.4	1.0	0.9	0.5	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	244 lbs.
SRS-5-11-30-SW-BS	5" x 11 ga. x 30'	8" x 0.75" Thick	8.5"/8-9"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	263 lbs.

NOTE: Hanging signs, banners and flags on poles changes the EPA rating and increases vibration. The EPA ratings data provided does not allow for this added stress which could result in pole or luminaire failure.

This map indicates approximate maximum wind zones throughout the U.S. Base wind velocities are established using a 50-year recurring mean. The EPA rating of the pole must be equal to or greater than that of the luminaire(s), taking into consideration the wind conditions at the job site. It is the customer's responsibility to carefully select poles and associated accessories based upon proper mounting configurations and wind loading in area where the installation will occur.



Hanging signs, banners and flags on light poles change the EPA rating and increase vibration. The EPA ratings data provided on this guide does not allow for this added stress, which could result in pole or fixture failure.

Dimensions, EPA & Weight

Product	Face (A) x Wall (B) x Height (C)	Base Plate (D) x Thickness	Bolt Circle/Range Min (E) -Max (F)	Pole EPA Rating per 2020 FBC / ASCE-7																Approx. Shipping Weight
				120 MPH		130 MPH		140 MPH		150 MPH		160 MPH		170 MPH		180 MPH				
				150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.	150 lbs. Max.	440 lbs. Max.			
SRS-5-11-12-SW-BS	5" x 11 ga. x 12"	8" x 0.75" Thick	8.5"/8-9"	23.9	22.9	19.9	19.1	18.0	17.3	15.4	14.8	13.3	12.8	11.6	11.1	10.2	9.7	120 lbs.		
SRS-5-11-15-SW-BS	5" x 11 ga. x 15"	8" x 0.75" Thick	8.5"/8-9"	17.7	16.9	14.5	13.9	13.6	13.0	11.5	11.0	9.9	9.4	8.5	8.1	7.3	7.0	144 lbs.		
SRS-5-11-17-SW-BS	5" x 11 ga. x 17"	8" x 0.75" Thick	8.5"/8-9"	14.3	13.6	11.5	11.0	11.1	10.6	9.4	9.0	7.9	7.6	6.7	6.4	5.7	5.4	161 lbs.		
SRS-5-11-20-SW-BS	5" x 11 ga. x 20"	8" x 0.75" Thick	8.5"/8-9"	10.4	9.8	9.0	8.5	8.3	7.9	6.9	6.5	5.7	5.4	4.7	4.5	3.9	3.7	186 lbs.		
SRS-5-11-22-SW-BS	5" x 11 ga. x 22"	8" x 0.75" Thick	8.5"/8-9"	8.3	7.8	7.5	7.1	6.9	6.5	5.6	5.3	4.5	4.3	3.7	3.4	2.9	2.7	202 lbs.		
SRS-5-11-25-SW-BS	5" x 11 ga. x 25"	8" x 0.75" Thick	8.5"/8-9"	5.7	5.3	5.4	5.2	5.1	4.8	4.0	3.7	3.1	2.8	2.3	2.1	1.7	1.5	225 lbs.		
SRS-5-11-27-SW-BS	5" x 11 ga. x 27"	8" x 0.75" Thick	8.5"/8-9"	4.5	3.9	4.2	4.2	4.1	3.8	3.1	2.8	2.2	2.0	1.5	1.4	1.0	0.8	244 lbs.		
SRS-5-11-30-SW-BS	5" x 11 ga. x 30"	8" x 0.75" Thick	8.5"/8-9"	3.1	2.0	3.1	2.9	2.7	2.5	1.9	1.6	1.1	0.9	0.5	0.4	N/A	N/A	263 lbs.		

NOTE: Hanging signs, banners and flags on poles changes the EPA rating and increases vibration. The EPA ratings data provided does not allow for this added stress which could result in pole or luminaire failure.
NOTE: It is the customer's responsibility to carefully select poles and associated accessories based upon proper mounting configurations and wind loading in area where the installation will occur.

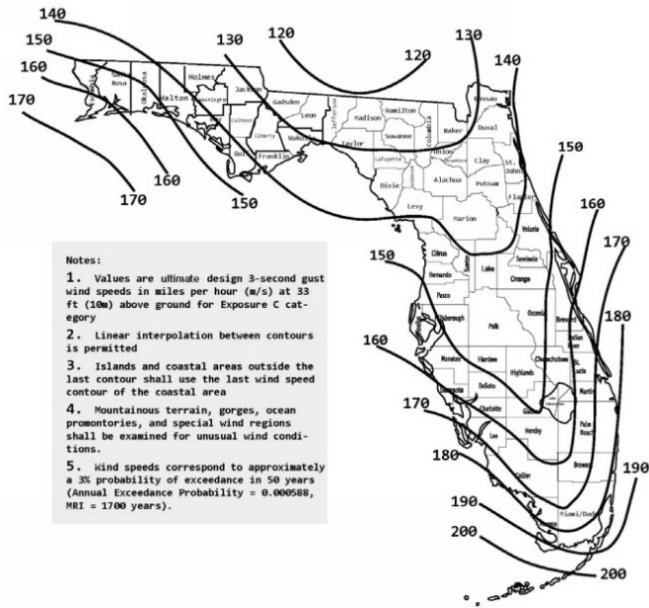
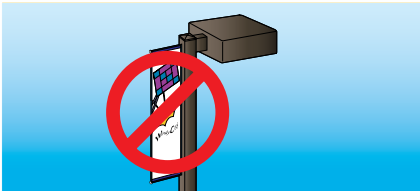


FIGURE 1609.3(2)
ULTIMATE DESIGN WIND SPEEDS, V_{ULT} , FOR RISK CATEGORY III BUILDINGS AND OTHER STRUCTURES



Hanging signs, banners and flags on light poles change the EPA rating and increase vibration. The EPA ratings data provided on this guide does not allow for this added stress, which could result in pole or fixture failure.

Project Name:	Part Number:	Type:
---------------	--------------	-------

FLT

FLAT LENS VOLUMETRIC TROFFER



FEATURES

- Architecturally Designed Flat Lensed Volumetric Troffer
- Lightweight Aluminum Matte White Finish Body
- Impact & Scratch Resistant PMMA Frosted Acrylic Lens
- Tamper & Vandal Resistant Design
- Recessed, Surface or Flange Mount
- Advanced Wireless Controls Options
- 1x4, 2x2, 2x4 sizes
- 2,300 – 4,800 Delivered Lumens
- 3000K – 4000K CCT
- >80 Color Rendering Index (CRI)
- Calculated L70 >100,000 hrs
- 0–10V Dimmable Driver (100%–1%)
- 120–277V Universal Voltage
- 5 Year Warranty
- ETL Listed for Damp Locations



SUITABLE APPLICATIONS

- Education
- Healthcare
- Offices
- Hallways
- Multipurpose Rooms
- Conference Rooms

ORDERING GUIDE:

SERIES	WATTS	DRIVER	CCT
FLT14 1x4 Flat Lens Troffer	19WLED	U 120-277V	40
	30WLED		35
	45WLED		30
FLT22 2x2 Flat Lens Troffer	19WLED		
	30WLED		
	45WLED		
FLT24 2x4 Flat Lens Troffer	26WLED		
	35WLED		
	45WLED		

DRIVER & EMERGENCY OPTIONS		CONTROLS OPTIONS	
Factory Installed		Advanced	
POSTP	Post Painted Aluminum	ESMC ^{2,4}	EasySense Sensor
SR	Sensor Ready Module	5E/CU/CL ⁴	Enlighted 5E Connected Lighting (CL) Sensor with Control Unit
DR	DALI Ready Module	5E/CU/IOT ⁴	Enlighted 5E Internet of Things (IOT) Sensor with Control Unit
SD347 ¹	347V Step Down Transformer	5E/5W/CL ⁴	Enlighted 5E Connected Lighting (CL) Sensor w/ Aux Driver/5 Wire Connection
EM5	5W LED Factory Installed Battery Backup	5E/5W/IOT ⁴	Enlighted 5E Internet of Things (IOT) Sensor w/ Aux Driver/5 Wire Connection
EM5/HE ⁶	5W LED Factory Installed Battery Backup	VDO ^{3,4}	Lutron Vive DFCSJ-OEM-OCC (Daylight and Occupancy)
EM7	7W LED Factory Installed Battery Backup	VRF ^{3,4}	Lutron Vive DFCSJ-OEM-RF (Radio Frequency Only)
EM7/HE ⁶	7W LED Factory Installed Battery Backup	AWN ^R	Lutron Athena Wireless Node, Radio Frequency Only
EM10	10W LED Factory Installed Battery Backup	AWN ^S	Lutron Athena Wireless Node with Sensor
EM10/HE ⁶	10W LED Factory Installed Battery Backup		
EM12	12W LED Factory Installed Battery Backup		

WHIP OPTIONS—FACTORY INSTALLED		SHIP WITH ACCESSORIES	
MC6/3W	6ft MC Cable w/ 3 leads attached to power-non-dimming	ESMC/WWS/DR	EasySense Dual Rocker Wireless Wall Switch
MC6/4W	6ft 4 Wire MC Cable Whip w/ 3 leads attached to power & 1 lead for battery backup	HC	Hurricane Clips
MC6/5W	6ft 4 Wire MC Cable Whip w/ 3 leads attached to power & 2 lead attached to dimming	FLGK	Flange Kit
MC6/6W	6ft 6 Wire MC Cable Whip w/ 3 leads for fixture power & 2 leads for dimming & 1 battery backup	SM	Surface Mount Kit

¹Does not qualify for DLC

²Must be used with SR Sensor Ready Driver

³One needed per project

⁴Easily Controlled via Mobile Phone with Philips MasterConnect Bluetooth App

⁵View controls page for more details (pg. 3)

⁶CEC Title 20 Compliant

FLT

FLAT LENS VOLUMETRIC TROFFER

LED SYSTEMS INFO ¹	3000K		3500K		4000K		Watts ²	DLC Listing	Replaces
	Part Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy		
	FLT14-19WLED	2,263 lm	121 lm/w	2,302 lm	123 lm/w	2,341 lm	125 lm/w	19W	Standard
	FLT14-30WLED	3,485 lm	116 lm/w	3,546 lm	118 lm/w	3,609 lm	120 lm/w	30W	Standard
	FLT14-45WLED	4,911 lm	110 lm/w	4,996 lm	112 lm/w	5,027 lm	112 lm/w	45W	Standard
	FLT22-19WLED	2,148 lm	114 lm/w	2,234 lm	119 lm/w	2,319 lm	124 lm/w	19W	Standard
	FLT22-30WLED	3,292 lm	110 lm/w	3,425 lm	114 lm/w	3,557 lm	119 lm/w	30W	Standard
	FLT22-45WLED	4,609 lm	104 lm/w	4,793 lm	108 lm/w	4,802 lm	107 lm/w	45W	Standard
	FLT24-26WLED	3,147 lm	122 lm/w	3,157 lm	123 lm/w	3,168 lm	123 lm/w	26W	Premium
	FLT24-35WLED	4,141 lm	118 lm/w	4,155 lm	119 lm/w	4,171 lm	119 lm/w	35W	Standard
	FLT24-45WLED	5,072lm	114 lm/w	5,089 lm	115 lm/w	4,832 lm	108 lm/w	45W	Standard
¹ Values are nominal, see IES file for more detail ² Electrical data at 25C (77F). Actual wattage may differ by +/-10%.									

SPECIFICATIONS

CONSTRUCTION

Lightweight aluminum matte white finish body for rigidity, durability, and ease of installation. Optional paint after fabrication. Designed to achieve maximum performance and improved aesthetics. Tamper resistant design with no bottom access to electrical components; requires use of Hurricane Clips (HC) when recess mounting.

ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 >100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25°C ambient. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (1%-100%) with optional 347-480 Vac step down transformer. Optional emergency battery backups available to meet critical life safety lighting requirements.

MOUNTING

Installs into standard 15/16" & narrow 9/16" T-grid ceiling. Optional Flange Kit (FLGK) for recessed drywall mounting & Surface Mount (SM) to ceiling mount options available. Hurricane Clips (HC) required for use in tamper resistant applications. Access plate installed on top of fixture for easy hardwire power connections. Optional factory installed power flex conduit whip (WHIP) available to reduce electrical installation time.

WARRANTY

5 Year Warranty (Terms and Conditions apply)

OPTICS

Impact and Scratch resistant PMMA frosted acrylic lens. Optimized optical design provides soothing illumination and glare reduction for maximum visual comfort.

CONTROLS

Factory installed advanced sensor options available. Sensor mounts within the body of the fixture, see controls page for more detail (pg.3). Inquire with manufacturer for more controls options, including customer supplied items.

CERTIFICATIONS

ETL Listed to US & Canadian safety standards. Suitable for damp locations. Type IC rated. American Recovery & Reinvestment Act Funding Compliant. Title 24 Compliant with sensor options; see local ordinance for qualification information. DLC (DesignLights Consortium) Premium Qualified, with some Standard Qualified configurations. Please refer to the DLC Qualified Products List at www.designlights.org/QPL to confirm specific product qualifications.

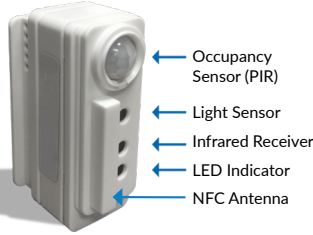
FLAT LENS VOLUMETRIC TROFFER

ADVANCED CONTROLS OPTIONS

EASYSENSE

ESMC

EasySense combines occupancy sensing, daylight harvesting and institutional tuning in one compact solution. This is an ideal control for any Commercial application. Each device allows you to turn on/off occupancy and/or daylight harvesting functions as well as set the full light output, background light level, occupancy prolong time, occupancy gracefully fading time, and occupancy time out/hold time. It can be easily controlled via the Phillips MasterConnect Bluetooth App on a mobile phone.



ESMC/WWS/DR

Optional Wireless / Batteryless Dual Rocker Wall Switch. Up to 100ft range. Functions include: On/Off, dimming and setting of (2) scenes for full room control.

Specifications:

- Wireless
- ZigBee®
- Batteryless
- 30-100ft Range
- Dual Rocker

Functions:

1. On (Hold to brighten up)
2. Off (Hold to dim down)
3. Scene 1
4. Scene 2



LUTRON

VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Providing with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



ANWR

Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



AWNS

Athena wireless node with a sensor that enables simple, digital control of individual light fixtures in an Athena control system. Provides wireless control of the fixture and includes a passive infrared (PIR) sensor for occupancy and a daylight sensor. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



ENLIGHTED

5E/CU/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/CU/IOT

Bundled System with Enlighted 5E sensor (SU-5E-IOT), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL) & Cable (CBL-5E-CU4-30N) paired with a driver with auxiliary power & 5 wire connection. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/IOT

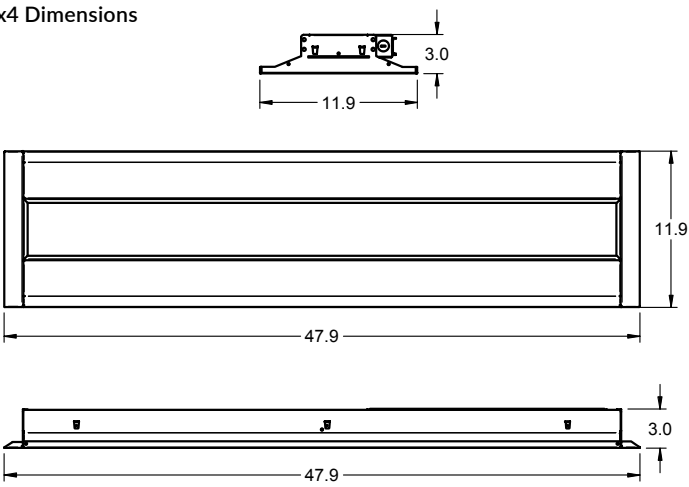
Bundled System with Enlighted 5E sensor (SU-5E-IOT) & Cable (CBL-5E-CU4-30N) paired w/ a driver w/ auxiliary power and 5 wire connection. Fixtures are controlled based on occupancy & ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

FLT

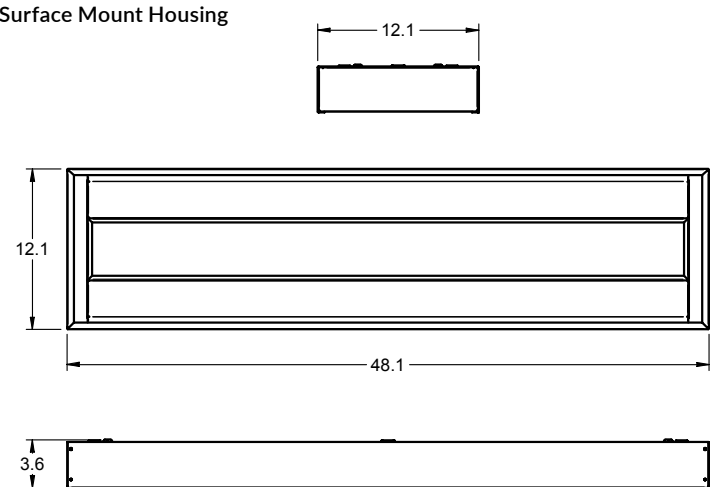
FLAT LENS VOLUMETRIC TROFFER

LINE DRAWINGS

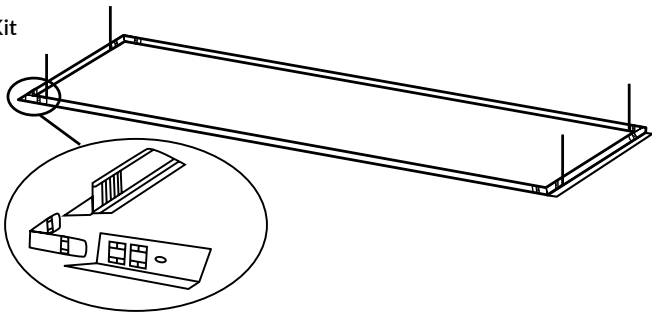
1x4 Dimensions



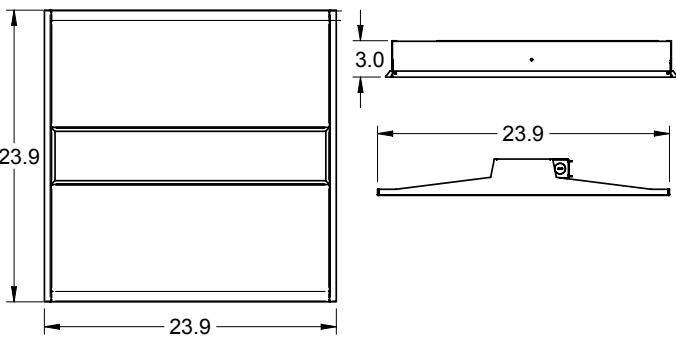
Surface Mount Housing



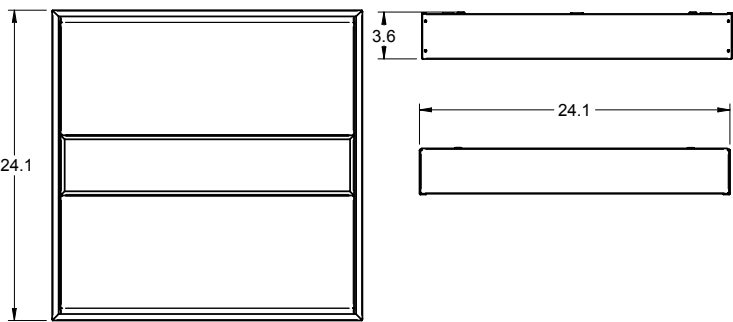
Dimensions with Flange Kit
Ceiling opening is 12.25" x 48.25"



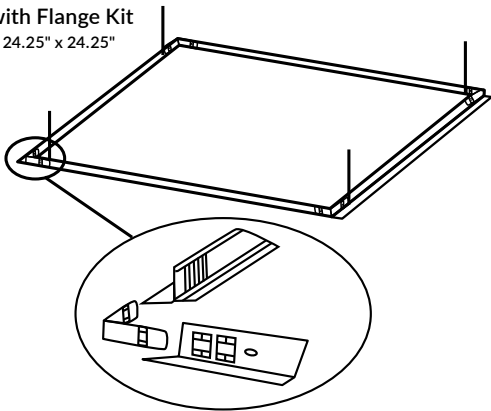
2x2 Dimensions



Surface Mount Housing



Dimensions with Flange Kit
Ceiling opening is 24.25" x 24.25"

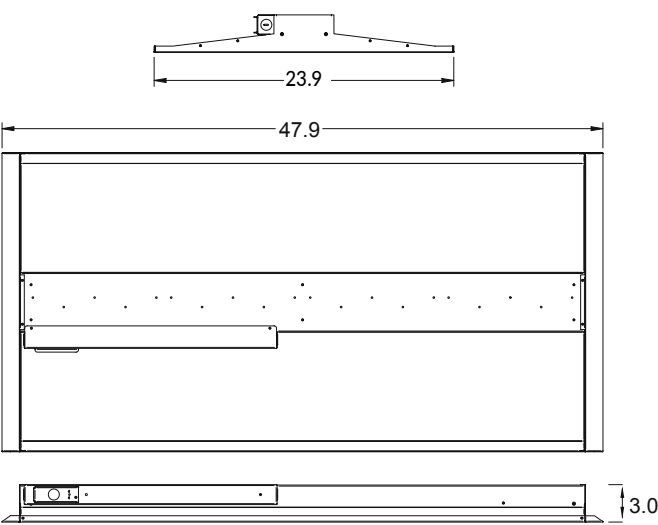


FLT

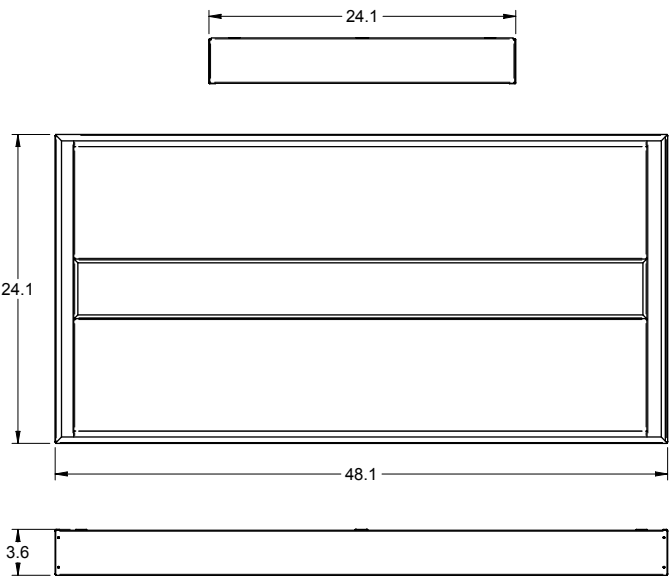
FLAT LENS VOLUMETRIC TROFFER

LINE DRAWINGS

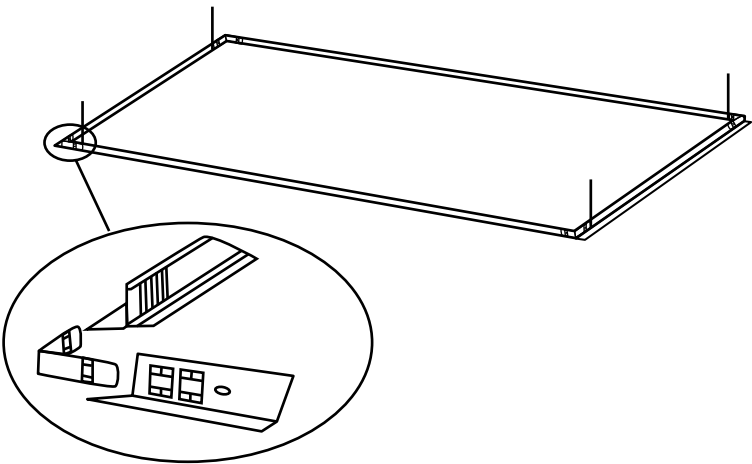
2x4 Dimensions



Surface Mount Housing



Dimensions with Flange Kit
Ceiling opening is 24.25" x 48.25"



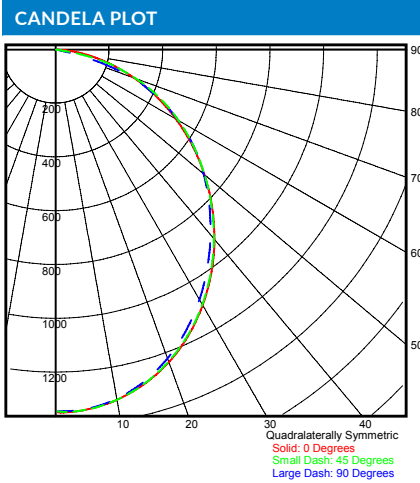
FLT

FLAT LENS VOLUMETRIC TROFFER

PHOTOMETRIC REPORTS

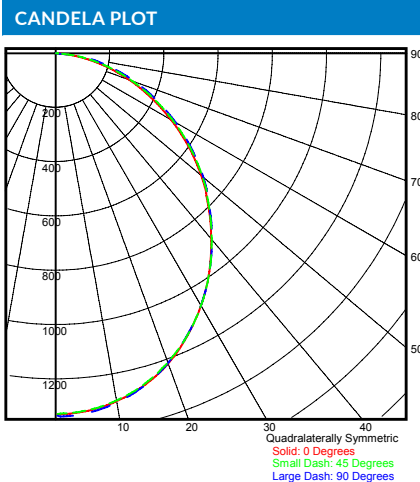
LUMINAIRE DATA	
Part Number	FLT14-30WLED-UNIV-40
Description	1' x 4' Flat Lens Troffer with a flat frosted acrylic lens 3,600 lumens
Fixture Lumens (lm)	3,609 lm
Wattage (W)	30 W
Efficacy (lm/W)	120 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.21, 90° = 1.19

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,661	47%
0° - 60°	2,863	82%
0° - 90°	3,609	100%
90° - 180°	0	0%
0° - 180°	3,609	100%



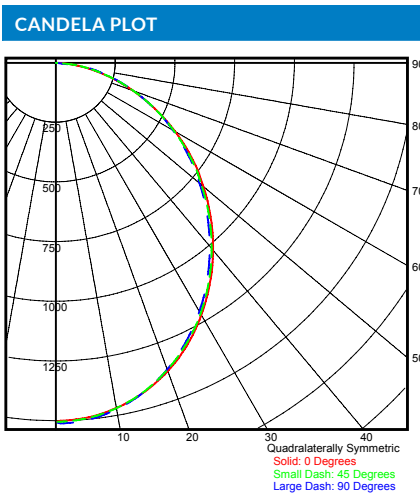
LUMINAIRE DATA	
Part Number	FLT22-30WLED-UNIV-40
Description	2' x 2' Flat Lens Troffer with a flat frosted acrylic lens 3,600 lumens
Fixture Lumens (lm)	3,557 lm
Wattage (W)	30 W
Efficacy (lm/W)	119 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.21, 90° = 1.19

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,633	47%
0° - 60°	2,799	81%
0° - 90°	3,557	100%
90° - 180°	0	0%
0° - 180°	3,557	100%



LUMINAIRE DATA	
Part Number	FLT24-35WLED-UNIV-40
Description	2' x 4' Flat Lens Troffer with a flat frosted acrylic lens 4,100 lumens
Fixture Lumens (lm)	4,171 lm
Wattage (W)	35 W
Efficacy (lm/W)	119 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.21, 90° = 1.19

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,844	47%
0° - 60°	3,165	80%
0° - 90°	4,171	100%
90° - 180°	0	0%
0° - 180°	4,171	100%



Project Name:	Part Number:	Type:
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FLT

FLAT LENS VOLUMETRIC TROFFER



FEATURES

- Architecturally Designed Flat Lensed Volumetric Troffer
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- Advanced Wireless Controls Options
- 1x4, 2x2, 2x4 sizes
- 2,300 – 4,800 Delivered Lumens
- 3000K – 4000K CCT
- >80 Color Rendering Index (CRI)
- Calculated L70 >100,000 hrs
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- 120–277V Universal Voltage
- 5 Year Warranty
- ETL Listed for Damp Locations



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- Education
- Healthcare
- Offices
- Hallways
- Multipurpose Rooms
- Conference Rooms

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	45WLED		
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	35WLED		
	45WLED		

DRIVER & EMERGENCY OPTIONS		CONTROLS OPTIONS	
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EM10/HE ⁶	10W LED Factory Installed Battery Backup		
EM12	12W LED Factory Installed Battery Backup		

WHIP OPTIONS—FACTORY INSTALLED		SHIP WITH ACCESSORIES	
MC6/3W	6ft MC Cable w/ 3 leads attached to power–non-dimming	ESMC/WWS/DR	EasySense Dual Rocker Wireless Wall Switch
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MC6/5W	6ft 4 Wire MC Cable Whip w/ 3 leads attached to power & 2 lead attached to dimming	FLGK	Flange Kit
MC6/6W	6ft 6 Wire MC Cable Whip w/ 3 leads for fixture power & 2 leads for dimming & 1 battery backup	SM	Surface Mount Kit

¹Does not qualify for DLC

²Must be used with SR Sensor Ready Driver

³One needed per project

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⁵View controls page for more details (pg. 3)

⁶CEC Title 20 Compliant

²Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

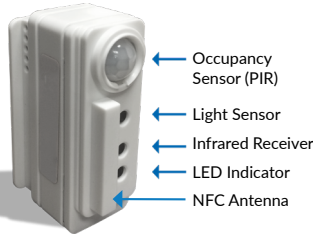
FLAT LENS VOLUMETRIC TROFFER

ADVANCED CONTROLS OPTIONS

EASYSense

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ESMC/WWS/DR

Optional Wireless / Batteryless Dual Rocker Wall Switch. Up to 100ft range. Functions include: On/Off, dimming and setting of (2) scenes for full room control.

Specifications:

- Wireless
- ZigBee®
- Batteryless
- 30-100ft Range
- Dual Rocker

Functions:

1. On (Hold to brighten up)
2. Off (Hold to dim down)
3. Scene 1
4. Scene 2



LUTRON

VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Providing with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



ANWR

Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



AWNS

Athena wireless node with a sensor that enables simple, digital control of individual light fixtures in an Athena control system. Provides wireless control of the fixture and includes a passive infrared (PIR) sensor for occupancy and a daylight sensor. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



ENLIGHTED

5E/CU/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/CU/IOT

Bundled System with Enlighted 5E sensor (SU-5E-IOT), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL) & Cable (CBL-5E-CU4-30N) paired with a driver with auxiliary power & 5 wire connection. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/IOT

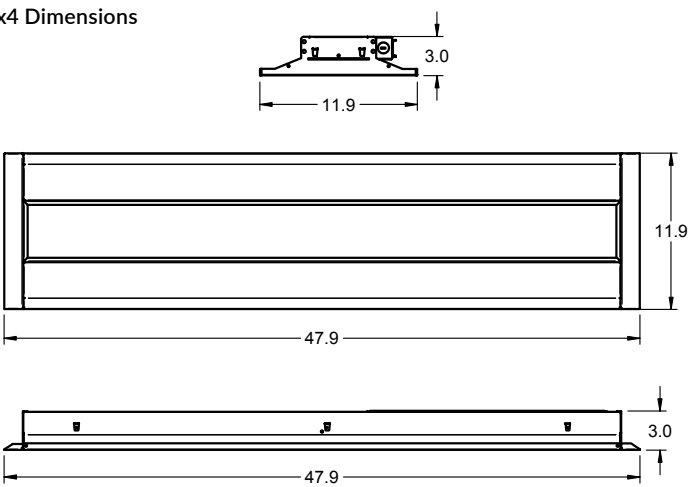
Bundled System with Enlighted 5E sensor (SU-5E-IOT) & Cable (CBL-5E-CU4-30N) paired w/ a driver w/ auxiliary power and 5 wire connection. Fixtures are controlled based on occupancy & ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

FLT

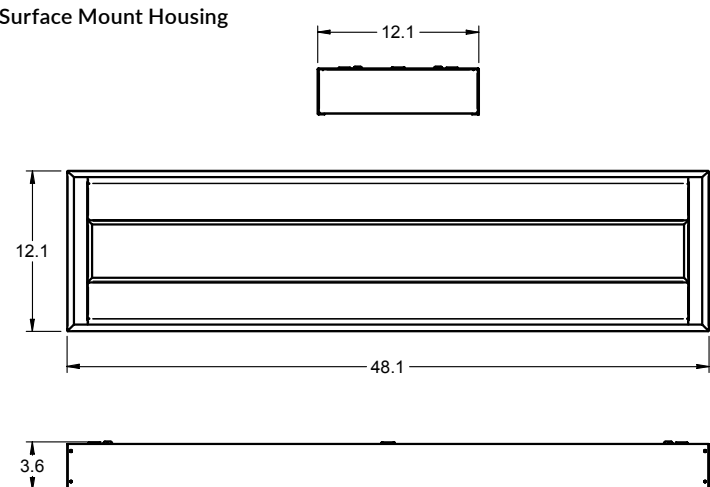
FLAT LENS VOLUMETRIC TROFFER

LINE DRAWINGS

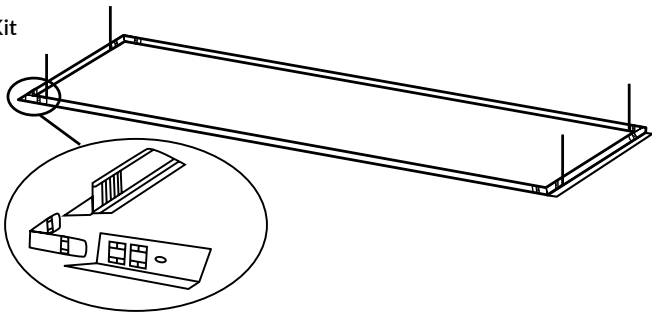
1x4 Dimensions



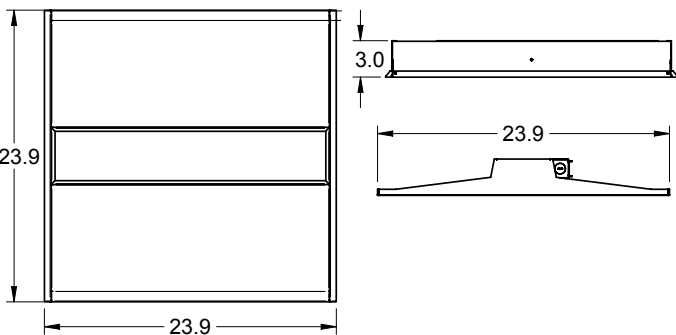
Surface Mount Housing



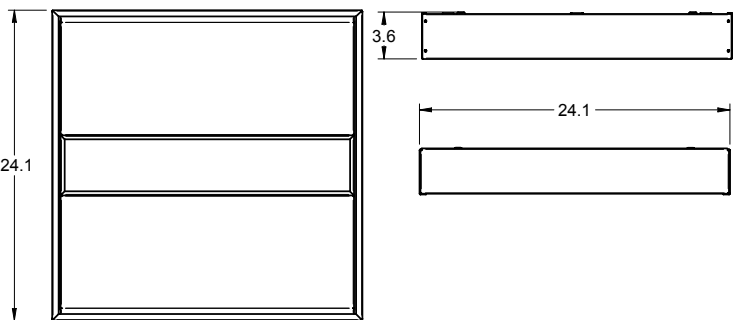
Dimensions with Flange Kit
Ceiling opening is 12.25" x 48.25"



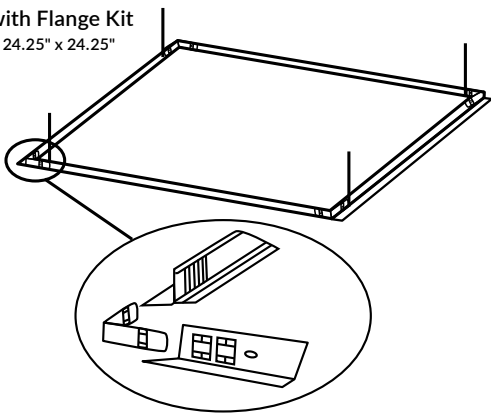
2x2 Dimensions



Surface Mount Housing



Dimensions with Flange Kit
Ceiling opening is 24.25" x 24.25"

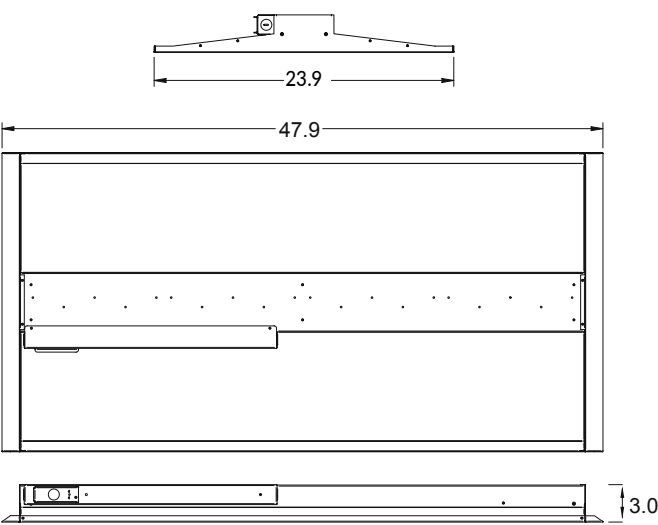


FLT

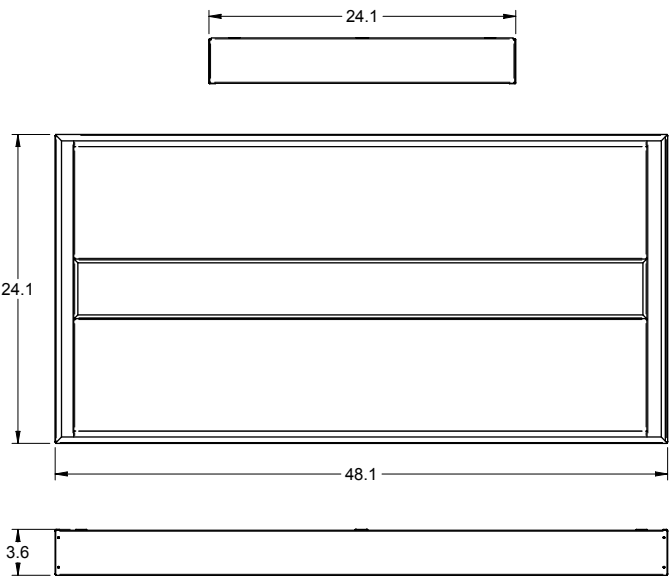
FLAT LENS VOLUMETRIC TROFFER

LINE DRAWINGS

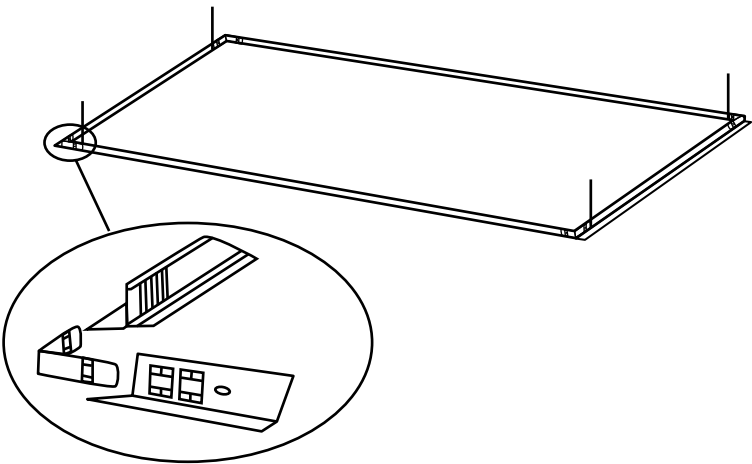
2x4 Dimensions



Surface Mount Housing



Dimensions with Flange Kit
Ceiling opening is 24.25" x 48.25"



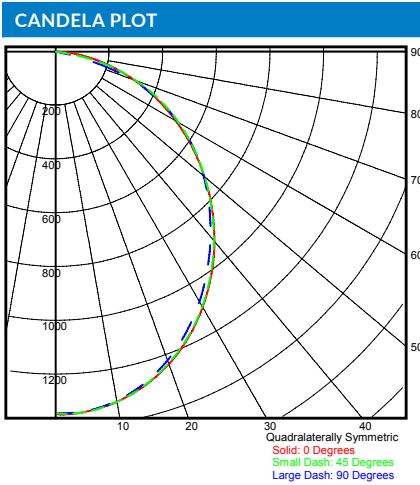
FLT

FLAT LENS VOLUMETRIC TROFFER

PHOTOMETRIC REPORTS

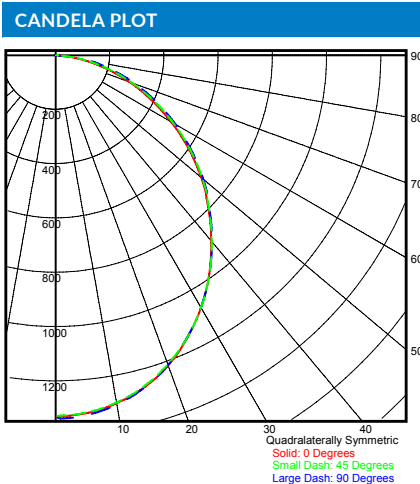
LUMINAIRE DATA	
Part Number	FLT14-30WLED-UNIV-40
Description	1' x 4' Flat Lens Troffer with a flat frosted acrylic lens 3,600 lumens
Fixture Lumens (lm)	3,609 lm
Wattage (W)	30 W
Efficacy (lm/W)	120 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.21, 90° = 1.19

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,661	47%
0° - 60°	2,863	82%
0° - 90°	3,609	100%
90° - 180°	0	0%
0° - 180°	3,609	100%



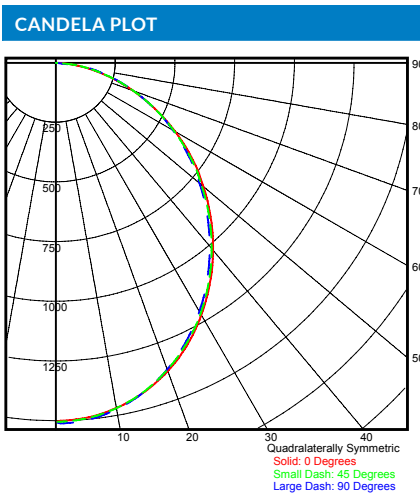
LUMINAIRE DATA	
Part Number	FLT22-30WLED-UNIV-40
Description	2' x 2' Flat Lens Troffer with a flat frosted acrylic lens 3,600 lumens
Fixture Lumens (lm)	3,557 lm
Wattage (W)	30 W
Efficacy (lm/W)	119 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.21, 90° = 1.19

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,633	47%
0° - 60°	2,799	81%
0° - 90°	3,557	100%
90° - 180°	0	0%
0° - 180°	3,557	100%



LUMINAIRE DATA	
Part Number	FLT24-35WLED-UNIV-40
Description	2' x 4' Flat Lens Troffer with a flat frosted acrylic lens 4,100 lumens
Fixture Lumens (lm)	4,171 lm
Wattage (W)	35 W
Efficacy (lm/W)	119 lm/W
Mounting	Recessed
Spacing Criteria	0° = 1.21, 90° = 1.19

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,844	47%
0° - 60°	3,165	80%
0° - 90°	4,171	100%
90° - 180°	0	0%
0° - 180°	4,171	100%



XSP Series

XSPSM LED Street/Area Luminaire - Small

Rev. Date: V10 10/19/2022

Product Description

In addition to a low initial cost, the XSPSM LED Street/Area luminaire maintains the familiar look of the traditional cobrahead design and delivers substantial energy savings while reducing maintenance time and costs. The hassle-free design of the XSP small luminaire includes tool-less entry and +/- 5° fixture leveling for easy installation. Our NanoOptic® Precision Delivery Grid™ optic achieves better optical control than traditional street and area lighting fixtures and efficiently delivers white uniform light for safer-feeling communities.

Applications: Residential roads, collector roads, parking lots, and general area spaces

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: Up to 7,825

Efficacy: Up to 124 LPW

CRI: Minimum 70 CRI

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

* See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed		
Backlight Control Shield XA-SPR3BLS - Provides 1 mounting height cutoff - Polycarbonate construction - Refer to initial delivered lumen tables for lumen output	Bird Spikes XSP-BRDGRDS	Shorting Cap XA-XSLSHRT

Ordering Information

Example: XSPSM-D-HT-2LG-5L-30K7-UL-SV-N

XSPSM	D	HT						N	
Product	Version	Mounting*	Optic	Lumen Package***	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
XSPSM	D	HT Horizontal Tenon	Asymmetric 2LG** Type II Long 2ME** Type II Medium 3ME** Type III Medium 4ME** Type IV Medium Symmetric 5SH Type V Short	5L 5,000 Lumens 8L 8,000 Lumens	30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K7 5000K, 70 CRI 57K7 5700K, 70 CRI	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15-2020 - 7-pin receptacle per ANSI C136.41 - Receptacle leads are factory connected to the driver - Requires photocell or shorting cap (by others)	20KV 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection DLI DALI Compatible - Available with UL voltage only - Not available with Q or X options Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range lumen adjustability - Includes wattage label for setting selected - Refer to pages 8 & 9 for power and lumen values - Luminaire may also be dimmed through 7-Pin receptacle with use of dimming control by others X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select X8, X7, X6, X5, X4, X3, X2, or X1 - Lumen output is permanently locked to the setting selected - Includes wattage label for setting selected - Refer to pages 8 & 9 for power and lumen values - Dimming is only available through 7-Pin receptacle with use of dimming control by others

* Reference EPA and pole configuration suitability data on page 7

** Available with Backlight Shield when ordered with field-installed accessory (see table above)

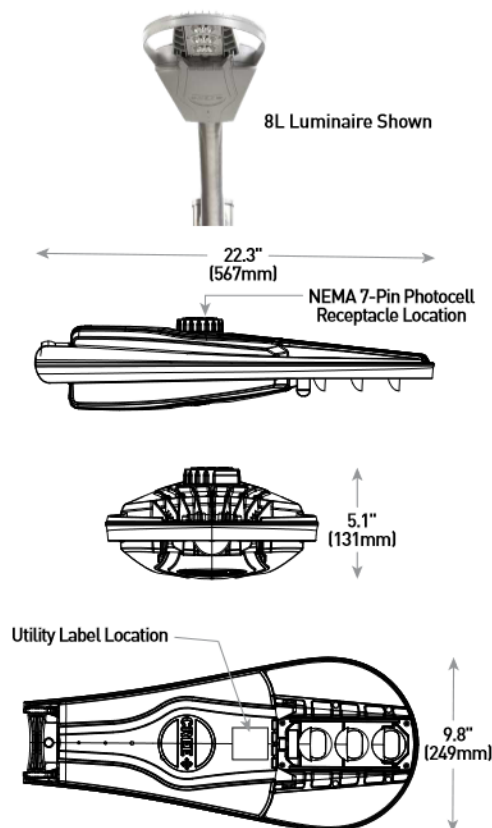
*** Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

CREE ⇄ **LIGHTING**



Lumen Packages	Weight
5L	9.0 lbs. (4.1kg)
5L w/DAL	9.6 lbs. (4.4kg)
8L	9.2 lbs. (4.2kg)

Product Specifications


CONSTRUCTION & MATERIALS

- Die cast aluminum housing w/UV stabilized polymeric door for long weathering and reliability
- Tool-less entry
- Mounts on 1.25" (32mm) IP, 1.66" (42mm) O.D. or 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon (minimum 8" [203mm] in length) and is adjustable +/- 5° to allow for fixture leveling (includes two axis T-level to aid in leveling)
- Luminaire secures with two 410 stainless steel mounting bolts
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable black, bronze or silver powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion
- Comes standard with Utility Label per ANSI C136.15-2020 and 7-pin NEMA® Photocell Receptacle per ANSI C136.41
- Weight:** 5L: 9.0 lbs. (4.1kg); 8L: 9.2 lbs. (4.2kg); 5L w/DAL: 9.6 lbs. (4.4kg)

ELECTRICAL SYSTEM

- Input Voltage:** 120-277V or 347-480V, 50/60Hz
- Power Factor:** > 0.9 at full load
- Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush
- Designed with 0-10V dimming capabilities. Controls by others
- 10V Source Current:** 0.15mA
- luminaires with DLI option are DALI compatible per IEC 62386
- Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- Assembled in the USA by Cree Lighting from US and imported parts
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K7 CCT. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

FOR NON-STREET LIGHTING APPLICATIONS ONLY

The XSP Series is compatible with the Synapse® SimplySNAP platform. A highly intuitive connected lighting solution for Site and Area applications only. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. Using a Twist-Lock Lighting Controller and Site Controller, SimplySnap provides: energy productivity, code compliance and a better light experience for non-street lighting installations. SimplySNAP is optimized to create and manage networks for campus wide Area and Site applications which differs from networking requirements for street lighting applications.

Synapse Wireless Control Accessories (for Non-Street Lighting Applications only)	
Twist-Lock Lighting Controller TL7-B2 - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with Q options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires - Refer to TL7-B2 spec sheet for details Twist-Lock Lighting Controller TL7-HVG - Suitable for 120-480V (UL and UH) voltage - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-HVG spec sheet for details SimplySNAP Central Base Station CBSSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBSSW-450-002 spec sheet for details	Synapse Wireless Sensor WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details Building Management System (BMS) Gateway BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details Outdoor Antennas [Optional, for increased range, 8dB gain] KIT-ANT420SM - Kit includes antenna, 20' cable and bracket KIT-ANT360 - Kit includes antenna, 30' cable and bracket KIT-ANT600 - Kit includes antenna, 50' cable and bracket - Refer to Outdoor antenna spec sheet for details

Electrical Data*										
Lumen Package	Optics	CCT/ CRI	System Watts 120-480V	Utility Label Wattage**	Total Current (A)					
					120V	208V	240V	277V	347V	480V
5L	Asymmetric	All	47	50	0.40	0.23	0.20	0.17	0.14	0.10
	Symmetric	All	43	40	0.36	0.20	0.18	0.16	0.12	0.09
8L	Asymmetric	All	69	70	0.58	0.34	0.29	0.26	0.20	0.15
	Symmetric	All	59	60	0.50	0.28	0.25	0.22	0.17	0.12

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%.

** Refer to Field Adjustable Output tables beginning on page 8 for utility label lumen values

XSP Series (XSPSM) Ambient Adjusted Lumen Maintenance¹						
Ambient	Optics	Initial LMF	25K hr Reported² LMF	50K hr Reported² LMF	75K hr Reported²/ Estimated³ LMF	100K hr Reported²/ Estimated³ LMF
5°C (41°F)	Asymmetric	1.03	1.02	1.00	0.98²	0.96²
	Symmetric	1.04	1.03	1.03	1.03³	1.03³
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98²	0.96²
	Symmetric	1.03	1.02	1.02	1.02³	1.02³
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97²	0.95²
	Symmetric	1.02	1.01	1.01	1.01³	1.01³
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96²	0.94²
	Symmetric	1.01	1.01	1.00	1.00³	1.00³
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95²	0.93²
	Symmetric	1.00	0.99	0.99	0.99³	0.99³

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

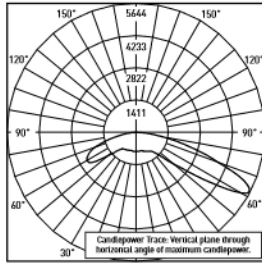
³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

XSPSM LED Street/Area Luminaire - Small

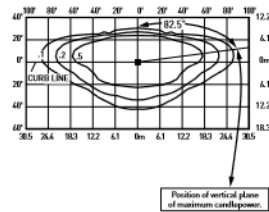
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

2LG



RESTL Test Report #: PL12486-001B
 XSPSM-D-**-2LG-5L-40K7-UL-**-N
 Initial Delivered Lumens: 5,168

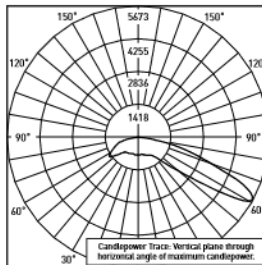


XSPSM-D-**-2LG-5L-40K7-UL-**-N
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 5,200
 Initial FC at grade

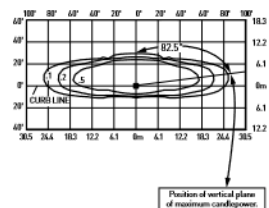
Type II Long Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	5,075	B2 U0 G2	5,200	B2 U0 G2	5,225	B2 U0 G2	5,225	B2 U0 G2
8L	7,575	B2 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12762-001B
 XSPSM-D-**-2LG-5L-40K7-UL-**-N
 w/XA-SPR3BLS
 Initial Delivered Lumens: 3,651



XSPSM-D-**-2LG-5L-40K7-UL-**-N
 w/XA-SPR3BLS
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 3,690
 Initial FC at grade

Type II Long w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,600	B1 U0 G1	3,690	B1 U0 G1	3,710	B1 U0 G1	3,710	B1 U0 G1
8L	5,375	B1 U0 G1	5,525	B1 U0 G1	5,550	B1 U0 G1	5,550	B1 U0 G1

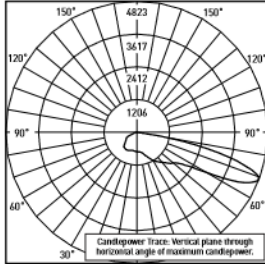
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

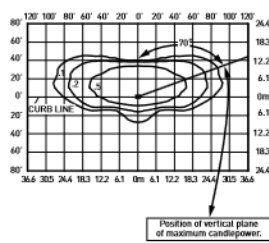
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

2ME



RESTL Test Report #: PL12483-001B
XSPSM-D-**-2ME-5L-40K7-UL-**-N
Initial Delivered Lumens: 5,221

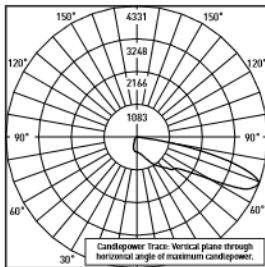


XSPSM-D-**-2ME-5L-40K7-UL-**-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

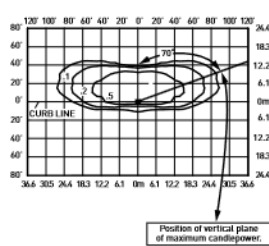
Type II Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	5,075	B1 U0 G1	5,200	B1 U0 G1	5,225	B1 U0 G1	5,225	B1 U0 G1
8L	7,575	B1 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12759-001B
XSPSM-D-**-2ME-5L-40K7-UL-**-N
w/XA-SPR3BLS
Initial Delivered Lumens: 4,193



XSPSM-D-**-2ME-5L-40K7-UL-**-N
w/XA-SPR3BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 4,160
Initial FC at grade

Type II Medium w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	4,060	B0 U0 G1	4,160	B0 U0 G1	4,180	B0 U0 G1	4,180	B0 U0 G1
8L	6,050	B1 U0 G2	6,225	B1 U0 G2	6,250	B1 U0 G2	6,250	B1 U0 G2

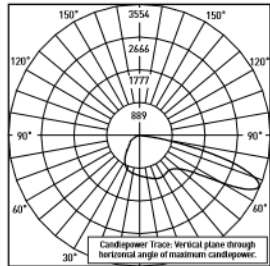
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

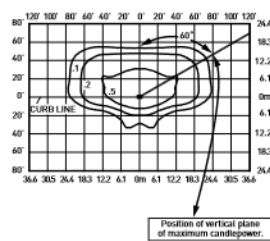
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

3ME



RESTL Test Report #: PL12484-001B
XSPSM-D-**-3ME-5L-40K7-UL-**-N
Initial Delivered Lumens: 5,145

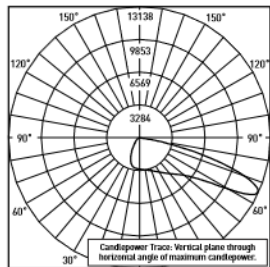


XSPSM-D-**-3ME-5L-40K7-UL-**-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

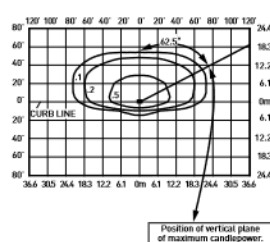
Type III Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	5,075	B1 U0 G1	5,200	B1 U0 G1	5,225	B1 U0 G1	5,225	B1 U0 G1
8L	7,575	B2 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12765-002B
XSPSM-D-**-3ME-24L-40K7-UL-**-N
w/XA-SP2BLS
Initial Delivered Lumens: 16,503



XSPSM-D-**-3ME-24L-40K7-UL-**-N
w/XA-SP2BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,690
Initial FC at grade

Type III Medium w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,600	B1 U0 G1	3,690	B1 U0 G1	3,710	B1 U0 G1	3,710	B1 U0 G1
8L	5,375	B1 U0 G2	5,525	B1 U0 G2	5,550	B1 U0 G2	5,550	B1 U0 G2

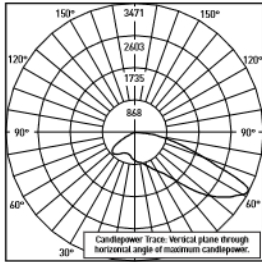
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

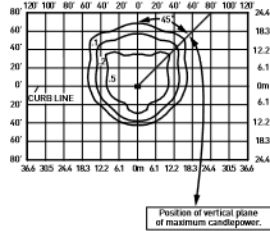
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

4ME



RESTL Test Report #: PL12485-001B
XSPSM-D-4ME-5L-40K7-UL-N
Initial Delivered Lumens: 5,256

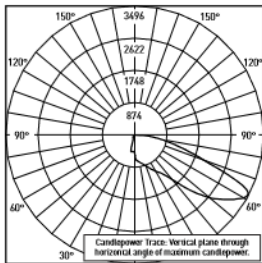


XSPSM-D-4ME-5L-40K7-UL-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

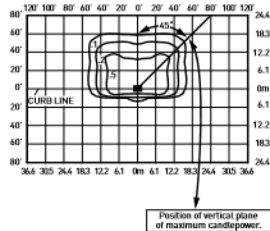
Type IV Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	5,075	B2 U0 G1	5,200	B2 U0 G1	5,225	B2 U0 G1	5,225	B2 U0 G1
8L	7,575	B2 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12761-001B
XSPSM-D-4ME-5L-40K7-UL-N
w/XA-SPR3BLS
Initial Delivered Lumens: 3,899



XSPSM-D-4ME-5L-40K7-UL-N
w/XA-SPR3BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,850
Initial FC at grade

Type IV Medium w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,760	B1 U0 G1	3,850	B1 U0 G1	3,870	B1 U0 G1	3,870	B1 U0 G1
8L	5,600	B1 U0 G2	5,750	B1 U0 G2	5,800	B1 U0 G2	5,800	B1 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

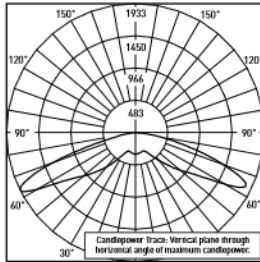
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

XSPSM LED Street/Area Luminaire - Small

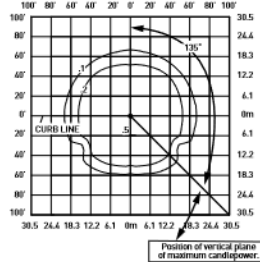
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

5SH



RESTL Test Report #: PL12983-001A
 XSPSM-D-**-5SH-5L-30K7-UL-**-N
 Initial Delivered Lumens: 4,561



XSPSM-D-**-5SH-5L-30K7-UL-**-N
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 4,590
 Initial FC at grade

Type V Short Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	4,590	B3 U0 G1	4,930	B3 U0 G1	4,930	B3 U0 G1	4,930	B3 U0 G1
8L	6,800	B3 U0 G2	7,325	B3 U0 G2	7,325	B3 U0 G2	7,325	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Luminaire EPA

Horizontal Tenon Mount – Weight: 5L: 9.0 lbs. (4.1kg); 8L: 9.2 lbs. (4.2kg); 5L w/DAL: 9.6 lbs. (4.4kg)				
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with luminaire EPA				
PD-1H4; PT-1H	PD-2H4(90); PT-2H(90)	PD-2H4(180); PT-2H(180)	PD-3H4(90); PT-3H(90)	PD-4H4(90); PT-4H(90)
0.57	0.85	1.14	1.42	1.56

Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.19

Tenons and Brackets[†] (must specify color)

Square Internal Mount Horizontal Tenons (Aluminum)
 - Mounts to 4" (102mm) square aluminum or steel poles
 PD-1H4 – Single PD-3H4(90) – 90° Triple
 PD-2H4(90) – 90° Twin PD-4H4(90) – 90° Quad
 PD-2H4(180) – 180° Twin

Wall Mount Brackets
 - Mounts to wall or roof
 WM-2L – Extended Horizontal

Round External Mount Horizontal Tenons (Aluminum)
 - Mounts to 2.375"-3" (60-76mm) O.D. round aluminum or steel poles or tenons
 - Mounts to 3" (76mm), 4" (102mm), 5" (127mm), or 6" (152mm) square pole with PB-1A* tenon
 PT-1H – Single PT-3H(90) – 90° Triple
 PT-2H(90) – 90° Twin PT-4H(90) – 90° Quad
 PT-2H(180) – 180° Twin

Direct Arm Pole Adaptor Bracket
 - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles
 XA-TMDA8

[†] Refer to the [Bracket and Tenons spec sheet](#) for more details

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5") or 6 (6") for quad luminaire orientation

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

CREE **LIGHTING**

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the XSP Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the XSP Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 5L

Q Option Setting	X Option Setting	CCT/CRI	System Watts* 120-480V		Lumen Values*						Utility Label			
											Label Wattage		Label Lumens	
			Asymmetric	Symmetric	2LG/2ME/ 3ME/4ME	5SH	2LG w/BLS	2ME w/BLS	3ME w/BLS	4ME w/BLS	Asymmetric	Symmetric	2LG/2ME/3ME/4ME	5SH
Q9	N/A (Full Power)	30K7	47	43	5,075	4,590	3,600	4,060	3,600	3,760	50	40	5000 L	5000 L
		40K7			5,200	4,930	3,690	4,160	3,690	3,850				
		50K7			5,225	4,930	3,710	4,180	3,710	3,870				
		57K7			5,225	4,930	3,710	4,180	3,710	3,870				
Q8	X8	30K7	44	39	4,910	4,450	3,490	3,930	3,490	3,630	40	40	5000 L	4000 L
		40K7			5,050	4,790	3,590	4,040	3,590	3,740				5000 L
		50K7			5,075	4,770	3,600	4,060	3,600	3,760				
		57K7			5,075	4,770	3,600	4,060	3,600	3,760				
Q7	X7	30K7	42	37	4,710	4,260	3,340	3,770	3,340	3,490	40	40	5000 L	4000 L
		40K7			4,830	4,590	3,430	3,860	3,430	3,570				5000 L
		50K7			4,860	4,570	3,450	3,890	3,450	3,600				
		57K7			4,860	4,570	3,450	3,890	3,450	3,600				
Q6	X6	30K7	40	35	4,570	4,140	3,240	3,660	3,240	3,380	40	40	5000 L	4000 L
		40K7			4,690	4,450	3,330	3,750	3,330	3,470				
		50K7			4,720	4,430	3,350	3,780	3,350	3,490				
		57K7			4,720	4,430	3,350	3,780	3,350	3,490				
Q5	X5	30K7	37	33	4,250	3,810	3,020	3,400	3,020	3,150	40	30	4000 L	4000 L
		40K7			4,350	4,100	3,090	3,480	3,090	3,220				
		50K7			4,375	4,080	3,110	3,500	3,110	3,240				
		57K7			4,375	4,080	3,110	3,500	3,110	3,240				
Q4	X4	30K7	33	29	3,925	3,580	2,790	3,140	2,790	2,900	30	30	4000 L	4000 L
		40K7			4,025	3,850	2,860	3,220	2,860	2,980				
		50K7			4,050	3,830	2,880	3,240	2,880	3,000				
		57K7			4,050	3,830	2,880	3,240	2,880	3,000				
Q3	X3	30K7	30	27	3,580	3,240	2,540	2,860	2,540	2,650	30	30	4000 L	3000 L
		40K7			3,670	3,490	2,610	2,940	2,610	2,720				
		50K7			3,700	3,470	2,630	2,960	2,630	2,740				
		57K7			3,700	3,470	2,630	2,960	2,630	2,740				
Q2	X2	30K7	27	24	3,250	2,940	2,310	2,600	2,310	2,410	30	20	3000 L	3000 L
		40K7			3,340	3,170	2,370	2,670	2,370	2,470				
		50K7			3,360	3,160	2,390	2,690	2,390	2,490				
		57K7			3,360	3,160	2,390	2,690	2,390	2,490				
Q1	X1	30K7	24	21	2,970	2,690	2,110	2,380	2,110	2,200	20	20	3000 L	3000 L
		40K7			3,040	2,890	2,160	2,430	2,160	2,250				
		50K7			3,060	2,880	2,170	2,450	2,170	2,260				
		57K7			3,060	2,880	2,170	2,450	2,170	2,260				

* Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%.

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the XSP Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the XSP Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 8L

Q Option Setting	X Option Setting	CCT/CRI	System Watts* 120-480V		Lumen Values*						Utility Label			
											Label Wattage		Label Lumens	
			Asymmetric	Symmetric	2LG/2ME/ 3ME/4ME	5SH	2LG w/BLS	2ME w/BLS	3ME w/BLS	4ME w/BLS	Asymmetric	Symmetric	2LG/2ME/3ME/4ME	5SH
Q9	N/A (Full Power)	30K7	69	59	7,575	6,800	5,375	6,050	5,375	5,600	70	60	8000 L	7000 L
		40K7			7,775	7,325	5,525	6,225	5,525	5,750				
		50K7			7,825	7,325	5,550	6,250	5,550	5,800				
		57K7			7,825	7,325	5,550	6,250	5,550	5,800				
Q8	X8	30K7	65	55	7,325	6,600	5,200	5,850	5,200	5,425	70	60	7000 L	7000 L
		40K7			7,525	7,175	5,350	6,025	5,350	5,575			8000 L	
		50K7			7,575	7,075	5,375	6,050	5,375	5,600				
		57K7			7,575	7,075	5,375	6,050	5,375	5,600				
Q7	X7	30K7	62	52	7,025	6,325	5,000	5,625	5,000	5,200	60	50	7000 L	6000 L
		40K7			7,225	6,875	5,125	5,775	5,125	5,350				7000 L
		50K7			7,275	6,775	5,175	5,825	5,175	5,375				
		57K7			7,275	6,775	5,175	5,825	5,175	5,375				
Q6	X6	30K7	59	50	6,825	6,125	4,850	5,450	4,850	5,050	60	50	7000 L	6000 L
		40K7			7,000	6,650	4,970	5,600	4,970	5,175				7000 L
		50K7			7,050	6,575	5,000	5,650	5,000	5,225				
		57K7			7,050	6,575	5,000	5,650	5,000	5,225				
Q5	X5	30K7	54	46	6,275	5,650	4,460	5,025	4,460	4,640	50	50	6000 L	6000 L
		40K7			6,450	6,125	4,580	5,150	4,580	4,770			7000 L	
		50K7			6,500	6,050	4,620	5,200	4,620	4,810				
		57K7			6,500	6,050	4,620	5,200	4,620	4,810				
Q4	X4	30K7	49	42	5,900	5,300	4,190	4,720	4,190	4,370	50	40	6000 L	5000 L
		40K7			6,050	5,750	4,300	4,840	4,300	4,480				6000 L
		50K7			6,100	5,675	4,330	4,880	4,330	4,510				
		57K7			6,100	5,675	4,330	4,880	4,330	4,510				
Q3	X3	30K7	44	38	5,350	4,800	3,800	4,280	3,800	3,960	40	40	5000 L	5000 L
		40K7			5,475	5,225	3,890	4,380	3,890	4,050			6000 L	
		50K7			5,525	5,150	3,920	4,420	3,920	4,090				
		57K7			5,525	5,150	3,920	4,420	3,920	4,090				
Q2	X2	30K7	40	34	4,875	4,370	3,460	3,900	3,460	3,610	40	30	5000 L	4000 L
		40K7			4,975	4,740	3,530	3,980	3,530	3,680				5000 L
		50K7			5,025	4,680	3,570	4,020	3,570	3,720				
		57K7			5,025	4,680	3,570	4,020	3,570	3,720				
Q1	X1	30K7	35	30	4,425	3,980	3,140	3,540	3,140	3,270	40	30	4000 L	4000 L
		40K7			4,550	4,330	3,230	3,640	3,230	3,370			5000 L	
		50K7			4,575	4,270	3,250	3,660	3,250	3,390				
		57K7			4,575	4,270	3,250	3,660	3,250	3,390				

* Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%.

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CREE  **LIGHTING**

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Canada: creeighting-canada.com (800) 473-1234

XSP Series

XSPMD LED Street/Area Luminaire – Medium

Rev. Date: V9 02/20/2023

Product Description

Designed from the ground up as a totally optimized LED street and area lighting system, the XSP Series delivers incredible efficiency without sacrificing application performance. Beyond substantial energy savings and reduced maintenance, Cree Lighting achieves greater optical control with our NanoOptic® Precision Delivery Grid™ optic when compared to traditional cobra head luminaires. The XSP Series is the better alternative for traditional street and area lighting with quick payback and improved performance.

Applications: Collector roads, major roads, parking lots, and general area spaces

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: Up to 11,875

Efficacy: Up to 125 LPW

CRI: Minimum 70 CRI

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

* See <http://creeighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed		
Backlight Control Shield XA-SP1BLS - Provides 1 mounting height cutoff - Polycarbonate construction - Refer to initial delivered lumen tables for lumen output	Bird Spikes XSP-BRD6RDM	Shorting Cap XA-XSLSHRT

Ordering Information

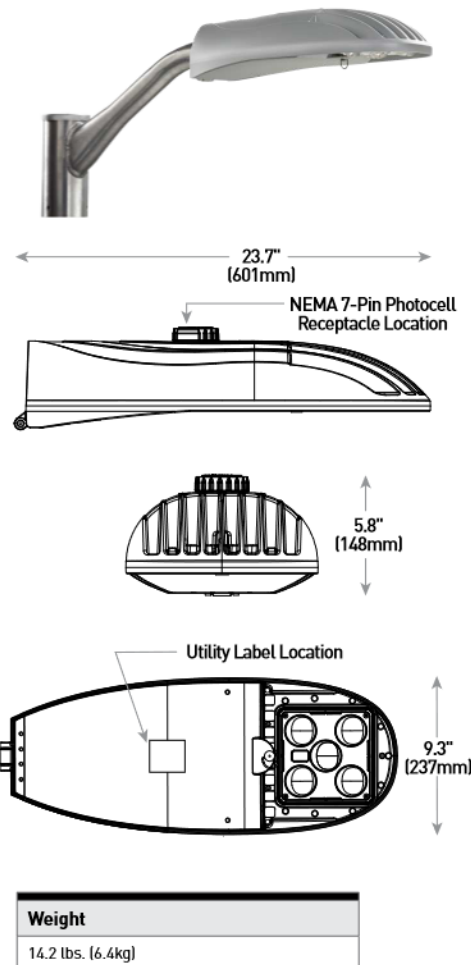
Example: XSPMD-D-HT-2LG-12L-30K7-UL-SV-N

XSPMD	D	HT		12L				N	
Product	Version	Mounting*	Optic	Lumen Package***	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
XSPMD	D	HT Horizontal Tenon	Asymmetric 2LG** Type II Long 2ME** Type II Medium 3ME** Type III Medium 4ME** Type IV Medium Symmetric 5SH Type V Short	12L 12,000 Lumens	30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K7 5000K, 70 CRI 57K7 5700K, 70 CRI	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15-2020 - 7-pin receptacle per ANSI C136.41 - Receptacle leads are factory connected to the driver - Requires photocell or shorting cap (by others)	20KV 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection DLI DALI Compatible - Available with UL voltage only - Not available with Q or X options G Small Four Bolt Mounting - Mounts to 1.25" (32mm) IP, 1.66" (42mm) O.D. horizontal tenon J Large Four Bolt Mounting - Mounts to 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range lumen adjustability - Includes wattage label for setting selected - Refer to page 8 for power and lumen values - Luminaire may also be dimmed through 7-Pin receptacle with use of dimming control by others X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select X8, X7, X6, X5, X4, X3, X2, or X1 - Lumen output is permanently locked to the setting selected - Includes wattage label for setting selected - Refer to page 8 for power and lumen values - Dimming is only available through 7-Pin receptacle with use of dimming control by others

* Reference EPA and pole configuration suitability data on page 7

** Available with Backlight Shield when ordered with field-installed accessory (see table above)

*** Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



US: creeighting.com (800) 236-6800

Canada: creeighting-canada.com (800) 473-1234

CREE  **LIGHTING®**

Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum housing
- Tool-less entry
- Mounts on 1.25" (32mm) IP, 1.66" (42mm) O.D. or 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon (minimum 8" [203mm] in length) and is adjustable +/- 5° to allow for fixture leveling (includes two axis T-level to aid in leveling)
- Luminaire secures with two 410 stainless steel mounting bolts; optional four point mounting available
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable black, bronze or silver powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion
- Comes standard with Utility Label per ANSI C136.15-2020 and 7-pin NEMA® Photocell Receptacle per ANSI C136.41
- **Weight:** 14.2 lbs. [6.4kg]

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush
- Designed with 0-10V dimming capabilities. Controls by others
- **10V Source Current:** 0.15mA
- Luminaires with DLI option are DALI compatible per IEC 62386
- **Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K7 CCT. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information

-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

FOR NON-STREET LIGHTING APPLICATIONS ONLY

The XSP Series is compatible with the Synapse® SimplySNAP platform. A highly intuitive connected lighting solution for Site and Area applications only. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. Using a Twist-Lock Lighting Controller and Site Controller, SimplySNAP provides: energy productivity, code compliance and a better light experience for non-street lighting installations. SimplySNAP is optimized to create and manage networks for campus wide Area and Site applications which differs from networking requirements for street lighting applications.

Synapse Wireless Control Accessories (for Non-Street Lighting Applications only)	
Twist-Lock Lighting Controller TL7-B2 - Suitable for 120-277V (UL) voltage only - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-B2 spec sheet for details Twist-Lock Lighting Controller TL7-HVG - Suitable for 120-480V (UL and UH) voltage - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-HVG spec sheet for details SimplySNAP Central Base Station CBSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBSW-450-002 spec sheet for details	Synapse Wireless Sensor WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details Building Management System (BMS) Gateway BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details Outdoor Antennas (Optional, for increased range, 8dB gain) KIT-ANT420SM - Kit includes antenna, 20' cable and bracket KIT-ANT360 - Kit includes antenna, 30' cable and bracket KIT-ANT600 - Kit includes antenna, 50' cable and bracket - Refer to Outdoor antenna spec sheet for details

Electrical Data*

Lumen Package	Optics	CCT/ CRI	System Watts 120-480V	Utility Label Wattage**	Total Current (A)					
					120V	208V	240V	277V	347V	480V
12L	All	All	95	100	0.80	0.46	0.40	0.35	0.27	0.20

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%
 ** Refer to Field Adjustable Output table on page 8 for utility label lumen values

XSP Series (XSPMD) Ambient Adjusted Lumen Maintenance¹

Ambient	Optics	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² / Estimated ³ LMF	100K hr Reported ² / Estimated ³ LMF
5°C [41°F]	Asymmetric	1.03	1.02	1.00	0.98 ²	0.96 ²
	Symmetric	1.04	1.03	1.03	1.03 ³	1.03 ³
10°C [50°F]	Asymmetric	1.03	1.02	1.00	0.98 ²	0.96 ²
	Symmetric	1.03	1.02	1.02	1.02 ³	1.02 ³
15°C [59°F]	Asymmetric	1.02	1.01	0.99	0.97 ²	0.95 ²
	Symmetric	1.02	1.01	1.01	1.01 ³	1.01 ³
20°C [68°F]	Asymmetric	1.01	1.00	0.98	0.96 ²	0.94 ²
	Symmetric	1.01	1.01	1.00	1.00 ³	1.00 ³
25°C [77°F]	Asymmetric	1.00	0.99	0.97	0.95 ²	0.93 ²
	Symmetric	1.00	0.99	0.99	0.99 ³	0.99 ³

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

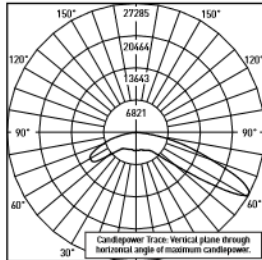
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

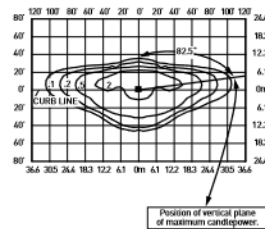
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

2LG



RESTL Test Report #: PL12765-007B
 XSPLG-D-**-2LG-24L-40K7-UL-**-N
 Initial Delivered Lumens: 23,437

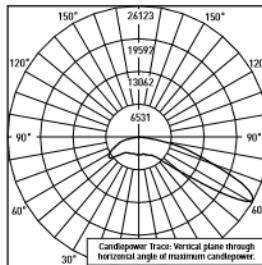


XSPMD-D-**-2LG-12L-40K7-UL-**-N
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 11,800
 Initial FC at grade

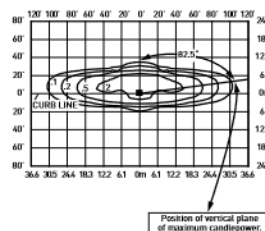
Type II Long Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	11,475	B3 U0 G3	11,800	B3 U0 G3	11,875	B3 U0 G3	11,875	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12765-008B
 XSPLG-D-**-2LG-24L-40K7-UL-**-N
 w/XA-SP2BLS
 Initial Delivered Lumens: 17,373



XSPMD-D-**-2LG-12L-40K7-UL-**-N
 w/XA-SP1BLS
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 8,725
 Initial FC at grade

Type II Long w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	8,500	B2 U0 G2	8,725	B2 U0 G2	8,800	B2 U0 G2	8,800	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

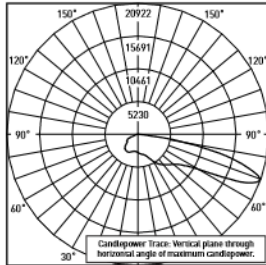
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

XSPMD LED Street/Area Luminaire – Medium

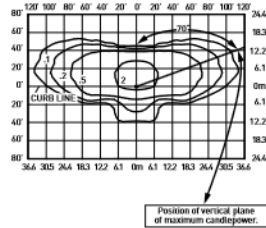
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

2ME



RESTL Test Report #: 12765-003B
XSPMD-D--2ME-12L-40K7-UL-**-N**
Initial Delivered Lumens: 23,168

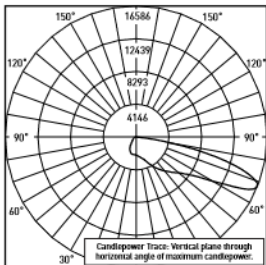


XSPMD-D--2ME-12L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,800
Initial FC at grade

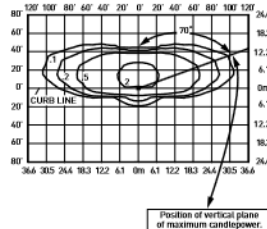
Type II Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	11,475	B2 U0 G2	11,800	B2 U0 G2	11,875	B2 U0 G2	11,875	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12765-004B
XSPMD-D--2ME-12L-40K7-UL-**-N**
w/XA-SP2BLS
Initial Delivered Lumens: 17,757



XSPMD-D--2ME-12L-40K7-UL-**-N**
w/XA-SP2BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,075
Initial FC at grade

Type II Medium w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	8,825	B1 U0 G2	9,075	B1 U0 G2	9,150	B1 U0 G2	9,150	B1 U0 G2

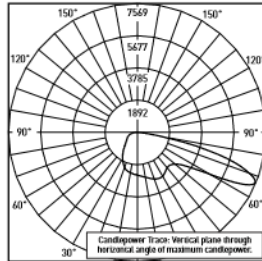
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

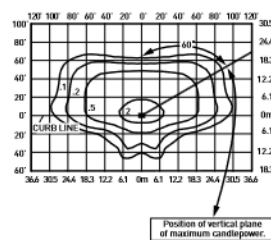
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

3ME



RESTL Test Report #: PL12611-001B
XSPMD-D--3ME-12L-40K7-UL-**-N**
Initial Delivered Lumens: 11,144

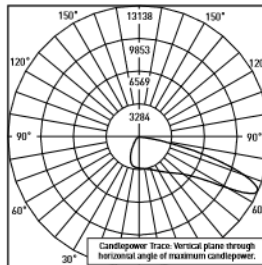


XSPMD-D--3ME-12L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,800
Initial FC at grade

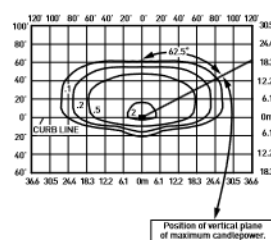
Type III Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	11,475	B2 U0 G2	11,800	B2 U0 G2	11,875	B2 U0 G2	11,875	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12765-002B
XSPMD-D--3ME-24L-40K7-UL-**-N**
w/XA-SP2BLS
Initial Delivered Lumens: 16,503



XSPMD-D--3ME-24L-40K7-UL-**-N**
w/XA-SP1BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,375
Initial FC at grade

Type III Medium w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	8,150	B1 U0 G2	8,375	B1 U0 G2	8,425	B1 U0 G2	8,425	B1 U0 G2

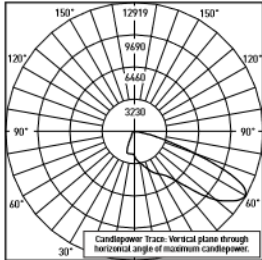
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

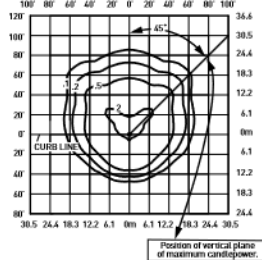
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

4ME



RESTL Test Report #: PL12765-005B
 XSPLG-D-**-4ME-24L-40K7-UL-**-N
 Initial Delivered Lumens: 23,195

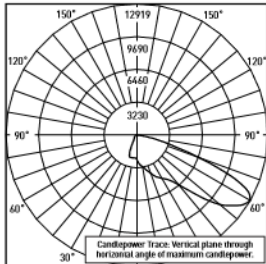


XSPLG-D-**-4ME-24L-40K7-UL-**-N
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 23,600
 Initial FC at grade

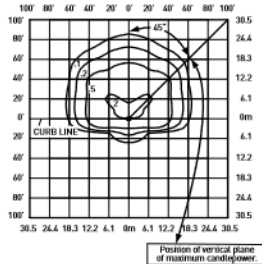
Type IV Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	11,475	B2 U0 G2	11,800	B2 U0 G2	11,875	B2 U0 G2	11,875	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



RESTL Test Report #: PL12765-006B
 XSPLG-D-**-4ME-12L-40K7-UL-**-N
 w/XA-SP2BLS
 Initial Delivered Lumens: 16,941



XSPMD-D-**-4ME-12L-40K7-UL-**-N
 w/XA-SP1BLS
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 8,625
 Initial FC at grade

Type IV Medium w/BLS Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	8,375	B1 U0 G2	8,625	B1 U0 G2	8,675	B1 U0 G2	8,675	B1 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

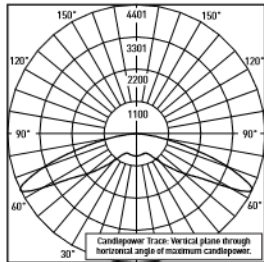
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

XSPMD LED Street/Area Luminaire – Medium

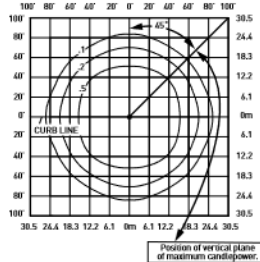
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

5SH



RESTL Test Report #: PL12933-001B
 XSPMD-D-**-5SH-12L-30K7-UL-**-N
 Initial Delivered Lumens: 11,090



XSPMD-D-**-5SH-12L-30K7-UL-**-N
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 11,325
 Initial FC at grade

Type V Short Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
12L	11,325	B4 U0 G2	11,875	B4 U0 G2	11,875	B4 U0 G2	11,875	B4 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Luminaire EPA

Horizontal Tenon Mount – Weight: 14.2 lbs. (6.4kg)				
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with luminaire EPA				
PD-1H4; PT-1H	PD-2H4(90); PT-2H(90)	PD-2H4(180); PT-2H(180)	PD-3H4(90); PT-3H(90)	PD-4H4(90); PT-4H(90)
0.71	1.02	1.43	1.74	2.04

Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.19

Tenons and Brackets ¹ (must specify color)	
Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-1H4 – Single PD-3H4(90) – 90° Triple PD-2H4(90) – 90° Twin PD-4H4(90) – 90° Quad PD-2H4(180) – 180° Twin	Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375"-3" (60-76mm) O.D. round aluminum or steel poles or tenons - Mounts to 3" (76mm), 4" (102mm), 5" (127mm), or 6" (152mm) square pole with PB-1A* tenon PT-1H – Single PT-3H(90) – 90° Triple PT-2H(90) – 90° Twin PT-4H(90) – 90° Quad PT-2H(180) – 180° Twin
Wall Mount Brackets - Mounts to wall or roof WM-2L – Extended Horizontal	Direct Arm Pole Adaptor Bracket - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8

¹ Refer to the [Bracket and Tenons spec sheet](#) for more details

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5") or 6 (6") for quad luminaire orientation

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the XSP Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the XSP Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 12L

Q Option Setting	X Option Setting	CCT/CRI	System Watts†	Lumen Values†						Utility Label		
										Label Wattage	Label Lumens	
			120-480V	2LG/2ME/3ME/4ME	5SH	2LG w/BLS	2ME w/BLS	3ME w/BLS	4ME w/BLS		2LG/2ME/3ME/4ME	5SH
Q9	N/A (Full Power)	30K7	95	11,475	11,325	8,500	8,825	8,150	8,375	100	11000 L	11000 L
		40K7		11,800	11,875	8,725	9,075	8,375	8,625		12000 L	12000 L
		50K7		11,875	11,875	8,800	9,150	8,425	8,675			
		57K7		11,875	11,875	8,800	9,150	8,425	8,675			
Q8	X8	30K7	90	11,125	10,975	8,225	8,575	7,900	8,125	90	11000 L	11000 L
		40K7		11,425	11,700	8,450	8,800	8,100	8,350			12000 L
		50K7		11,500	11,425	8,500	8,850	8,175	8,400		12000 L	11000 L
		57K7		11,500	11,425	8,500	8,850	8,175	8,400			
Q7	X7	30K7	85	10,650	10,500	7,875	8,200	7,550	7,775	90	11000 L	11000 L
		40K7		10,950	11,225	8,100	8,425	7,775	8,000			
		50K7		11,025	10,950	8,150	8,500	7,825	8,050			
		57K7		11,025	10,950	8,150	8,500	7,825	8,050			
Q6	X6	30K7	81	10,325	10,200	7,650	7,950	7,325	7,525	80	10000 L	10000 L
		40K7		10,625	10,875	7,875	8,175	7,550	7,750		11000 L	11000 L
		50K7		10,700	10,625	7,925	8,250	7,600	7,800			
		57K7		10,700	10,625	7,925	8,250	7,600	7,800			
Q5	X5	30K7	74	9,525	9,375	7,050	7,325	6,775	6,950	70	10000 L	9000 L
		40K7		9,775	10,025	7,225	7,525	6,950	7,125			10000 L
		50K7		9,850	9,775	7,300	7,575	7,000	7,200			
		57K7		9,850	9,775	7,300	7,575	7,000	7,200			
Q4	X4	30K7	67	8,925	8,825	6,600	6,875	6,325	6,525	70	9000 L	9000 L
		40K7		9,175	9,400	6,800	7,075	6,525	6,700			
		50K7		9,250	9,200	6,850	7,125	6,575	6,750			
		57K7		9,250	9,200	6,850	7,125	6,575	6,750			
Q3	X3	30K7	60	8,100	7,975	6,000	6,225	5,750	5,925	60	8000 L	8000 L
		40K7		8,325	8,525	6,150	6,400	5,900	6,075			9000 L
		50K7		8,375	8,325	6,200	6,450	5,950	6,125			8000 L
		57K7		8,375	8,325	6,200	6,450	5,950	6,125			
Q2	X2	30K7	54	7,350	7,250	5,450	5,650	5,225	5,375	50	7000 L	7000 L
		40K7		7,550	7,750	5,575	5,825	5,350	5,500		8000 L	8000 L
		50K7		7,625	7,575	5,650	5,875	5,425	5,575			
		57K7		7,625	7,575	5,650	5,875	5,425	5,575			
Q1	X1	30K7	48	6,700	6,625	4,960	5,150	4,760	4,890	50	7000 L	7000 L
		40K7		6,900	7,075	5,100	5,325	4,900	5,025			
		50K7		6,950	6,900	5,150	5,350	4,930	5,075			
		57K7		6,950	6,900	5,150	5,350	4,930	5,075			

† Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%.

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A COMPANY OF IDEAL INDUSTRIES, INC.

OSQ Series

OSQW™ LED Wall Mount Luminaire featuring Patented NanoComfort® Technology

Rev. Date: V3 05/08/2024

Product Description

The OSQW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall mounted applications. The rugged lightweight aluminum housing and mounting box are designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is intended specifically for LED technology including a weathertight LED driver compartment and thermal management. Optic design features industry-leading NanoComfort Technology which provides superior glare reduction and visual comfort with high-efficiency illumination delivered precisely where it is needed.

Applications: General area and security lighting

Performance Summary

Utilizes Patented NanoComfort® Technology

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: Up to 8,600

Input Power: 16 - 55 watts

Efficacy: Up to 159 LPW

CRI: Minimum 70 CRI (2700K, 3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 2700K, 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years for luminaire/10 years for Colorfast DeltaGuard® finish/5 years for BML and ML sensors/up to 5 years for Synapse® accessories/1 year for accessories

Limited Warranty Emergency Back Up (EB) Battery: 1 year for Battery Back Up. Test regularly in accordance with local code

* See <https://www.creelighting.com/resources/warranties/> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed	
Beauty Plate WM-PLT12** - 12" (305mm) Square WM-PLT14** - 14" (356mm) Square - Covers holes left by incumbent wall packs	Synapse SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details
Synapse® SimplySnap 10V Interface DIM10-220F - 120V-277V - Requires either Synapse Central Base Station or On-Site Controller - Refer to DIM10-220F spec sheet for details	Synapse Building Management System (BMS) Gateway BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details
Synapse SimplySNAP Central Base Station CBSSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBSSW-450-002 spec sheet for details	Synapse Wireless Sensor WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details

** Must specify color

Ordering Information

Example: OSQW-C-2L-27K7-2M-UL-WM-BK

OSQW	C								
Family	Series	Lumen Package*	CCT/CRI	Optic	Voltage	Mounting	Finish	Controls**	Options
OSQW	C	2L 2,550 lumens - Available only with UL voltage 4L 4,020 lumens 6L 6,075 lumens 8L 8,600 lumens	27K7 2700K, 70 CRI 30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	2M Type II Mid 3M Type III Mid 4M Type IV Mid	UL Universal 120-277V UH Universal 347-480V - Not available with 2L lumen package, controls options, or EB option 34 347V - Available only with P control - Not available with 2L lumen package, BML or ML controls, or EB option	WM Wall	BK Black BZ Bronze SV Silver WH White	BML Bluetooth® Technology Enabled Multi-Level Sensor - Available only with UL voltage - Utilizes a multifunction sensor - Refer to BML spec sheet for details - 8-20" sensor lens installed on luminaire; 20-40" sensor lens and aisle shrouds included - Not available with other controls or EB option ML Multi-Level - Refer to ML spec sheet for details - Utilizes a multifunction sensor - Available only with UL voltage - Not available with other controls or EB option P Button Photocell - Available with UL and 34 voltages only - Not available with other controls or EB option	20KV 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection EB Emergency Battery Back-Up - Provides 90 minutes and 7W of power in emergency mode - Available only with UL voltage - Not available with BML, ML or P controls

* Lumen Package codes identify approximate light output only. Actual lumen output levels vary depending on CCT selection. Refer to Initial Delivered Lumen tables for specific lumen values.

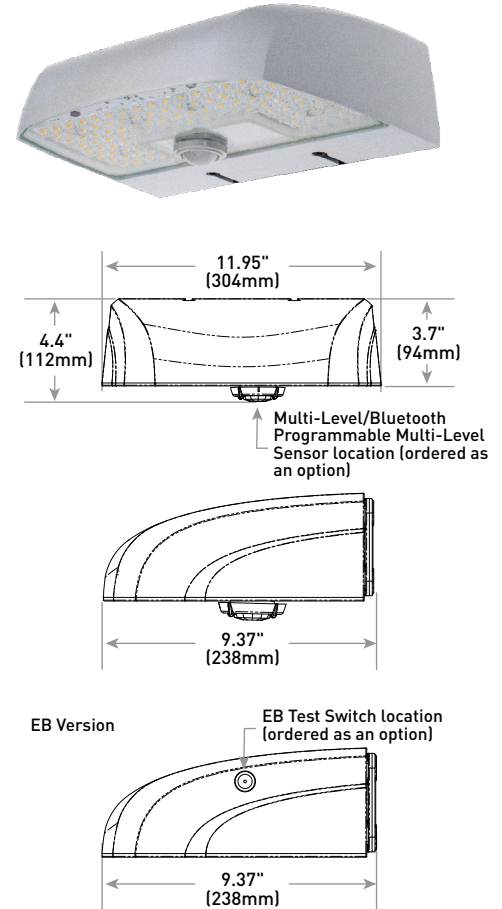
** Luminaire comes standard with 0-10V dimming. Controls by others.



US: [creelighting.com](https://www.creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](https://www.creelighting-canada.com) (800) 473-1234

CREE LIGHTING®



Luminaire	Weight
Standard	9.0 lbs. (4.1kg)
Emergency	10.0 lbs. (4.5kg)

OSQW™ LED Wall Mount Luminaire featuring Patented NanoComfort® Technology

Product Specifications

CREE LIGHTING NANOCOMFORT® TECHNOLOGY

Cree Lighting's NanoComfort® Technology ends the trade-offs in outdoor lighting by providing superior glare reduction and visual comfort in high-efficiency illumination delivered precisely where it is needed. The basic building block of NanoComfort® Technology is a compact 4x4 array of LEDs. Each of the 16 LEDs in a module is in contact with its own acrylic polymer lens to capture and precisely direct light. With NanoComfort® Technology, the acrylic optics are cut and sculpted into facets that relieve the glare and harshness while improving visual comfort – all while retaining superb efficacy and control.

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver
- Acrylic optic w/clear tempered glass lens
- Some versions are provided with full circuit board, but not fully populated with LEDs or optics to scale back lumen package
- Luminaire mounting box designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Includes (4) 3/16" mounting holes for customer supplied hardware. Select hardware appropriate for mounting surface
- Conduit entry from top, bottom, sides, and rear
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and bronze are available
- **Weight:** Standard - 9.0 lbs. (4.1kg); Emergency - 10.0 lbs. (4.5kg)
- Includes QR code on back plate which provides access to: Online installation instructions, Luminaire information (Part number, Serial number, Build date, and Warranty end date), and Warranty claim submission form
- Duplicate 1" and 2" QR code labels are included. 1" labels can be affixed inside pole bases, next to fixtures, on site plans, or in maintenance records. 2" labels can be scanned from the ground when placed at an appropriate height

ELECTRICAL SYSTEM


- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Dims to 10%. Controls by others
- 0-10V ANSI C137.1-2019 (8-Volt)
- **Maximum 10V Source Current:** 1 mA
- Refer to [Dimming spec sheet](#) for details
- **Operating Temperature Range:** -40°C - +50°C (-40°F - +122°F); Minimum operating temperature with EB option: -20°C (-4°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Designed for downlight applications only
- UL924 (EB Option) Maximum mounting height: 20.0'(6.1m)
- Enclosure rated IP66 per IEC 60598
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Lens meets IK09 requirements per IEC 60068-2
- Assembled in the USA by Cree Lighting from US and imported parts
- Consult factory when BAA or BABA is needed for a project: www.creelighting.com/BAA-BABA
- RoHS compliant. Consult factory for additional details
- DarkSky Approved when ordered with 27K7 or 30K7 CCTs. Please refer to <https://darksky.org/what-we-do/darksky-approved/products-companies/#!/~search/keyword=cree> for most current information
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

Lumen Package	System Watts 120-480V**	System Watts						EB System Watts 120-277V	Total Current (A)			
		120V	208V	240V	277V	347V**	480V**		120V	208V	240V	277V
2L	16	0.13	0.08	0.07	0.06	N/A	N/A	19	0.16	0.09	0.08	0.07
4L	27	0.22	0.13	0.11	0.10	0.08	0.06	30	0.24	0.14	0.12	0.11
6L	40	0.34	0.19	0.17	0.14	0.12	0.08	43	0.36	0.21	0.18	0.16
8L	55	0.47	0.27	0.23	0.20	0.16	0.12	58	0.49	0.28	0.24	0.21

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%.

** 2L lumen package is only available with 120-277V.

OSQW Series Ambient Adjusted Lumen Maintenance Factors¹

Ambient	Lumen Package	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² LMF	100K hr Reported ² LMF
5°C	2L	1.02	0.99	0.97	0.94	0.92
	4L-8L	1.02	0.99	0.93	0.88	0.83
10°C	2L	1.02	0.99	0.96	0.94	0.91
	4L-8L	1.02	0.98	0.93	0.87	0.82
15°C	2L	1.01	0.98	0.96	0.93	0.91
	4L-8L	1.01	0.98	0.92	0.87	0.82
20°C	2L	1.01	0.97	0.95	0.93	0.90
	4L-8L	1.01	0.97	0.92	0.86	0.81
25°C	2L	1.00	0.97	0.94	0.92	0.90
	4L-8L	1.00	0.97	0.91	0.86	0.81
30°C	2L	0.99	0.96	0.94	0.91	0.89
	4L-8L	0.99	0.96	0.90	0.85	0.80
35°C	2L	0.99	0.96	0.93	0.91	0.89
	4L-8L	0.99	0.95	0.90	0.85	0.80
40°C	2L	0.98	0.95	0.93	0.90	0.88
	4L-8L	0.98	0.95	0.89	0.84	0.79
45°C	2L	0.98	0.95	0.92	0.90	0.87
	4L-8L	0.98	0.94	0.89	0.84	0.79
50°C	2L	0.97	0.94	0.91	0.89	0.87
	4L-8L	0.97	0.94	0.88	0.83	0.79

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Delivered Emergency Lumens

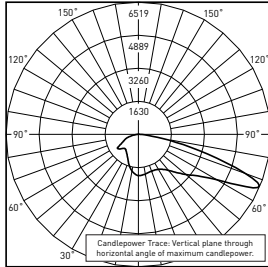
Lumen Package	CCT/CRI			
	2700K/3000K, 70 CRI	4000K, 70 CRI	5000K, 90 CRI	5700K, 70 CRI
2L	1,070	1,120	810	1,120
4L	1,000	1,040	760	1,040
6L	1,020	1,060	780	1,060
8L	1,110	1,160	800	1,160

CREE  **LIGHTING®**

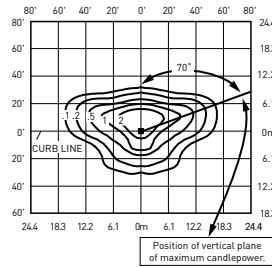
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<https://www.creelighting.com/products/outdoor/wall-mount/osq-series-2/>

2M



RESTL Test Report #: PL18035-001A
 OSQW-C-4L-30K7-2M-UL-WM-WH
 Initial Delivered Lumens: 8,577



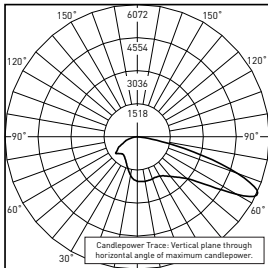
OSQW-C-4L-30K7-2M-UL-WM-WH
 Mounting Height: 15' (4.6) A.F.G.
 Initial Delivered Lumens: 4,020
 Initial FC at grade

Type II Mid Distribution								
Lumen Package	2700K/3000K, 70CRI		4000K, 70CRI		5000K, 90CRI		5700K, 70CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
2L	2,450	B1 U0 G1	2,550	B1 U0 G1	1,860	B1 U0 G1	2,550	B1 U0 G1
4L	3,870	B1 U0 G1	4,020	B1 U0 G1	2,940	B1 U0 G1	4,020	B1 U0 G1
6L	5,825	B1 U0 G1	6,075	B1 U0 G1	4,430	B1 U0 G1	6,075	B1 U0 G1
8L	8,250	B2 U0 G2	8,600	B2 U0 G2	6,275	B1 U0 G1	8,600	B2 U0 G2

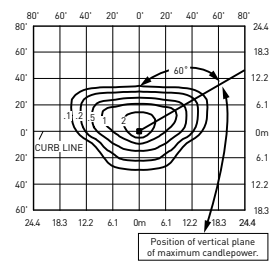
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

3M



RESTL Test Report #: PL18036-001A
 OSQW-C-4L-30K7-3M-UL-WM-WH
 Initial Delivered Lumens: 8,543



OSQW-C-4L-30K7-3M-UL-WM-WH
 Mounting Height: 15' (4.6) A.F.G.
 Initial Delivered Lumens: 4,020
 Initial FC at grade

Type III Mid Distribution								
Lumen Package	2700K/3000K, 70CRI		4000K, 70CRI		5000K, 90CRI		5700K, 70CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
2L	2,450	B1 U0 G1	2,550	B1 U0 G1	1,860	B1 U0 G1	2,550	B1 U0 G1
4L	3,870	B1 U0 G1	4,020	B1 U0 G1	2,940	B1 U0 G1	4,020	B1 U0 G1
6L	5,825	B1 U0 G1	6,075	B1 U0 G1	4,430	B1 U0 G1	6,075	B1 U0 G1
8L	8,250	B2 U0 G2	8,600	B2 U0 G2	6,275	B1 U0 G1	8,600	B2 U0 G2

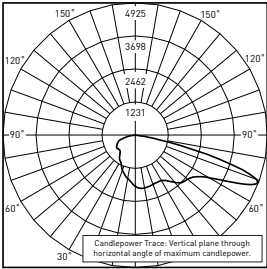
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

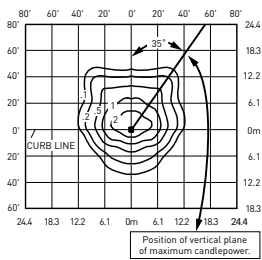
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
<https://www.creelighting.com/products/outdoor/wall-mount/osq-series-2/>

4M



RESTL Test Report #: PL18037-001A
OSQW-C-8L-30K7-4M-UL-WM-WH
Initial Delivered Lumens: 8,441



OSQW-C-4L-40K7-4M-Ux-WM-xx-xx
Mounting Height: 15' (4.6) A.F.G.
Initial Delivered Lumens: 4,020
Initial FC at grade

Type IV Mid Distribution								
Lumen Package	2700K/3000K, 70CRI		4000K, 70CRI		5000K, 90CRI		5700K, 70CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
2L	2,450	B1 U0 G1	2,550	B1 U0 G1	1,860	B1 U0 G1	2,550	B1 U0 G1
4L	3,870	B1 U0 G1	4,020	B1 U0 G1	2,940	B1 U0 G1	4,020	B1 U0 G1
6L	5,825	B1 U0 G1	6,075	B1 U0 G1	4,430	B1 U0 G1	6,075	B1 U0 G1
8L	8,250	B2 U0 G2	8,600	B2 U0 G2	6,275	B1 U0 G1	8,600	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Replacement Parts	
EB Replacement Kit OSQW-C-EBKIT - Suitable for use with all lumen packages and UL voltage	Back Box Replacement Kit OSQW-C-JBOXKIT - Suitable for use with all OSQW-C luminaires

Driver Replacement Parts		
Product	Lumen Package	Voltage
OSQW-C-DVRKT	2L 2,550 Lumens - Available only with UL voltage	UL 120-277V UH 347-480V - For use with UH and 34 voltages - Not available with 2L lumen package
	4L 4,020 Lumens	
	6L 6,075 Lumens	
	8L 8,600 Lumens	

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C-WP-C-RDC Series

Cutoff LED Wall Pack | Field Selectable CCT & Wattage

Replaces up to 400W MH

C-LITE
LED LIGHTING



UNLEASH VERSATILITY AND RELIABILITY

Illuminate your outdoor spaces with the exceptional performance and flexibility of our Cutoff LED Wall Pack. Designed to exceed expectations, this cutting-edge fixture combines field selectable wattage, CCT selection of 3000K, 4000K, or 5000K, and robust surge protection to safeguard against power surges. Tailor the brightness of your space to perfection with the field selectable wattage feature, allowing you to adjust the lighting output according to your specific requirements. Enjoy enhanced energy efficiency without compromising on illumination quality. Always backed by our standard 5-year warranty, this cULus Listed fixture is the perfect solution for a wide range of outdoor applications.

PRODUCT SPECIFICATIONS

OVERVIEW

- Initial Delivered Lumens: Up to 3300 Lumens (**S3L**), Up to 6000 Lumens (**S6L**), Up to 10,000 Lumens (**S10L**), Up to 16,000 Lumens (**S16L**)
- CRI: ≥ 70
- CCT: Field Selectable (3000K/4000K/5000K)
- Max. Input Power: 23W (**S3L**), 42W (**S6L**), 72W (**S10L**), 110W (**S16L**)
- Operating Temperature Range: -40°F to 104°F (-40°C to 40°C)
- Replaces: 100W PSMH (**S3L**), 175W MH (**S6L**), 250W PSMH (**S10L**), 400W MH (**S16L**),
- Estimated L₇₀ Lifetime @ 25°C: > 97,000 hours
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Limited Warranty: 5-Year*

FEATURES	RECOMMENDED USE	INPUT VOLTAGE
<ul style="list-style-type: none">FCC Part 15, Subpart B, Class B limits for conducted and radiated emissions3000K, 4000K or 5000K color temperature options4kV surge protection	<ul style="list-style-type: none">SecurityPerimeterCommercial	<ul style="list-style-type: none">Universal (120V through 277V Operation)

CERTIFICATIONS:

 **CA RESIDENTS WARNING:** Cancer and Reproductive Harm –
www.p65warnings.ca.gov



C-WP-C-RDC Series

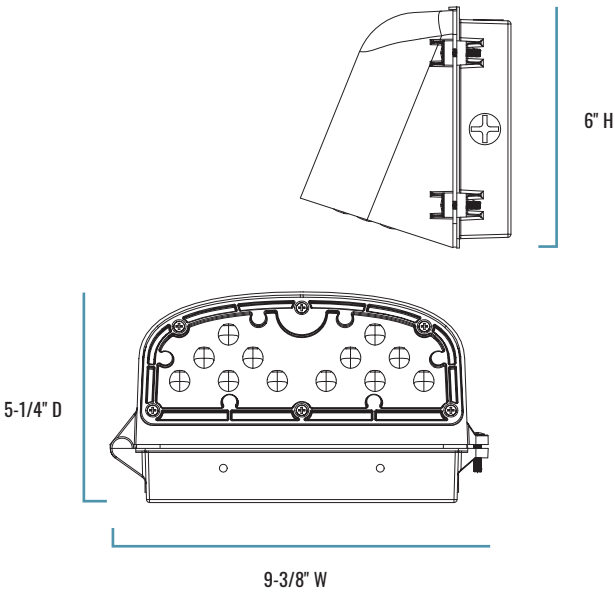
ORDERING INFORMATION

Example SKU: C-WP-C-RDC-S3L-SCCT-DB

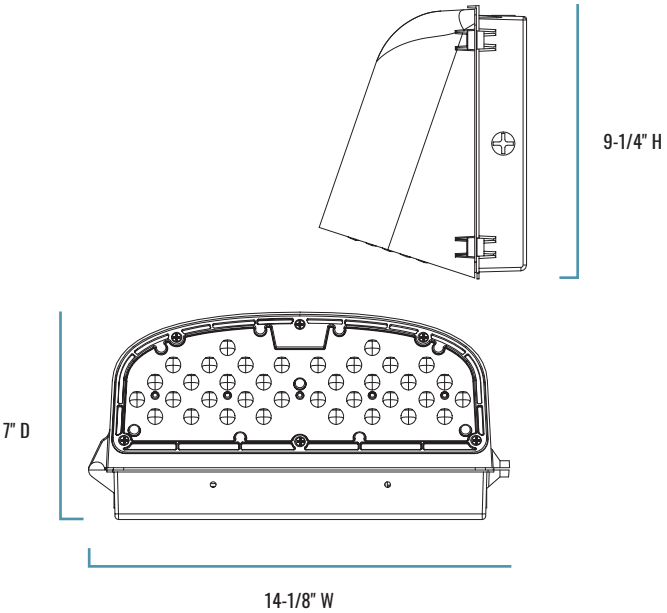
C-WP	C	RDC		SCCT	DB
PRODUCT	SERIES	TYPE	LUMEN PACKAGE*	FIELD SELECTABLE CCT	HOUSING COLOR
C-WP	C	RDC Round Cutoff	S3L Up to 3300 Lumens (Max input 23W) S6L Up to 6000 Lumens (Max input 42W) S10L Up to 10,000 Lumens (Max input 72W) S16L Up to 16,000 Lumens (Max input 110W)	SCCT Warm White (3000K) Neutral White (4000K)* Cool White (5000K)	DB Dark Bronze

*Default settings at time of shipping are highest product wattage and 4000K. Lumen output at full power at 4000K.

S3L & S6L



S10L & S16L



SERIES OVERVIEW

DIMENSIONS	PRODUCT WEIGHT	MOUNTING HEIGHT	SPACING
9-3/8" W x 5-1/4" D x 6" H (S3L & S6L)	3 lbs.	10-15 feet	2 to 3 times the mounting height
14-1/8" W x 7" D x 9-1/4" H (S10L & S16L)	5.6 lbs.		

C-WP-C-RDC Series

FIXTURE SPECIFICATIONS

HOUSING	Heavy duty die-cast aluminum with a durable powder coat dark bronze finish.
LENS ASSEMBLY	Integrated UV stabilized polycarbonate lens is designed to control the light and offer the most efficiency.
MOUNTING	1/2-inch threaded knockouts provided for conduit entry or mount over a recessed j-box. Knockouts are located on both sides and the top of the back box.

ELECTRICAL PERFORMANCE

OPERATING TEMPERATURE RANGE	ESTIMATED L ₇₀ LIFETIME @ 25°C (77°F)	POWER FACTOR	TOTAL HARMONIC DISTORTION
-40°F to 104°F (-40°C to 40°C)	> 97,000 Hours	> 0.9 at full load	< 20% at full load

LUMEN PACKAGE*	REPLACES	INITIAL DELIVERED LUMENS & BUG RATINGS PER TM-15-20				SYSTEM WATTS	CURRENT DRAW (AMPS)			
		3000K/5000K	BUG RATINGS*	4000K	BUG RATINGS*		120V	208V	240V	277V
S3L	100W PSMH	3000	B1-U0-G1	3300	B1-U0-G1	23W	0.19	0.11	0.10	0.08
		2430		2670		19W	0.16	0.09	0.08	0.07
		1650	B1-U0-G0	1820		12W	0.10	0.06	0.05	0.04
S6L	175W MH	5500	B2-U0-G1	6000	B2-U0-G1	42W	0.35	0.20	0.18	0.15
		4330	B1-U0-G1	4760		32W	0.27	0.15	0.13	0.12
		2950		3250	B1-U0-G1	21W	0.18	0.10	0.09	0.08
S10L	250W PSMH	9125	B2-U0-G2	10,000	B2-U0-G2	72W	0.60	0.35	0.30	0.26
		6950	B2-U0-G1	7650	B2-U0-G1	54W	0.45	0.26	0.23	0.19
		4730	B1-U0-G1	5200		35W	0.29	0.17	0.15	0.13
S16L	400W MH	14,675	B3-U0-G2	16,000	B3-U0-G2	110W	0.92	0.53	0.46	0.40
		11,550		12,700		87W	0.73	0.42	0.36	0.31
		7900	B2-U0-G1	8700	B2-U0-G1	57W	0.48	0.27	0.24	0.21

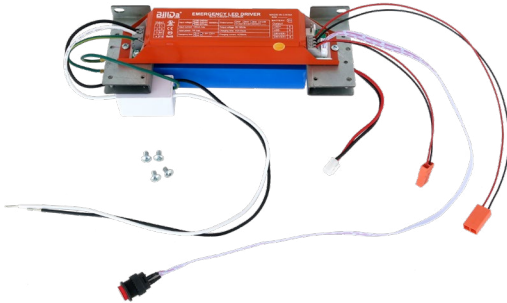


* Default settings at time of shipping are highest product wattage and 4000K.
* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt.

WARRANTY AND CERTIFICATIONS

WARRANTY	cULus LISTED	DLC
5-Year Limited*	Wet Locations	5.1 Premium Refer to https://www.designlights.org/search/ for most current information.

C-WP-C-RDC Series

ACCESSORIES (SOLD SEPARATELY)

	<div>8W EMERGENCY BATTERY BACKUP KIT</div> <div>SKU: C-ACC-EB-8W-KIT-UL</div> <div>USE: Install the EM driver and EM battery kit inside the back box by following instruction sheet provided. Quick connectors have been added where possible, to help make installation easy. Provides 90 minutes and a minimum of 1010 lumens in Emergency Backup (EB) mode. 1010 - 1240 lumens based on efficacy of different lumen packages. Operating temperature: 32°F to 104°F (0°C to 40°C)</div> <div>*NOTE: Not compatible with S3L and S6L lumen packages.</div>
	<div>UNIVERSAL BUTTON PHOTOCELL (120V-277V)</div> <div>SKU: CCR-PHC-0306-GC</div> <div>USE: Photocell is field installed and drilling of the back box is required. 500W Max.</div>
	<div>UNIVERSAL BUTTON PHOTOCELL (120V-277V)</div> <div>SKU: JL-423CZ</div> <div>USE: Photocell is field installed and drilling of the back box is required. 1000W Max.</div>

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Extruded aluminum architectural and task lighting LED luminaire for use in applications including, but not limited to airports, industrial and task lighting, and educational and office spaces.



Performance

- Lumen output: **Up to 3,375 lumens per foot**
- Efficacy: **Up to 162 Lumens per Watt**
- L₇₀ (per TM-21): **60,000 Hours**
- L₇₀ (calculated): **189,000 Hours**
- Ambient Temp. Rating: **-40°F to 113°F (-40°C to 45°C)**
Ambient temperature ratings vary with option/adders
- Surge Protection: **2.5kV (6kV optional)**
- Driver ratings: **120-277V input, 0-10V Dimming (1% min. optional)**
347-480V input, 0-10V Dimming (1% min. optional)

Construction

- Fixture body made from extruded 6463 aluminum
- Stainless-steel hardware
- Bright dip anodized fixture body

Optics

- Wide 120° beam angle LEDs
- Acrylic diffusing lens available in frosted and clear material
- Narrow optic available

Applications

- Office/Commercial
- Education
- Industrial/Task
- Inspection

Installation

- Aircraft cable suspension
- Surface mounting
- For special requests, contact factory

Listing and Ratings

- UL 1598 for Dry and Damp Locations
- ARRA/BAA Compliant (Made in America)
- DLC Listed

Warranty

- 10-Year Warranty on fixture body
- 5-Year Warranty on electronics
- For special requests, contact factory



Example Catalog Number:

BASE

4

835

U10

		Delivered lumens with 3500K color / WA lens				Other driver options available. Consult factory.				
Series		Length		CRI / CCT		Voltage and Dimming				
BASE	2-3lm	3,007lm	850	80CRI	5000K	U10	120-277V	0-10V dimming	10% min.	
	2	5,715lm	840	80CRI	4000K		U1	120-277V	0-10V dimming	1% min.
	4-6lm	6,014lm	835	80CRI	3500K		H10	347-480V	0-10V dimming	10% min.
	4	11,430lm					H1	347-480V	0-10V dimming	1% min.
	8-6lm	6,014lm					Dimming curves and other operating characteristics may vary between models			
	8-12lm	12,029lm								
	8	22,859lm								

Some CRI, CCT and other output variations may affect DLC listing; contact LUX for further information.

Options and Accessories

Endcap

HM

Hanger mount

SM

Surface mount

Standard powdercoat white

Lensing

CA

Clear acrylic diffuse lens

WA

White acrylic diffuse lens

N

Narrow optics

"2", "4", or "8" denotes fixture length

Lumen/Wattage Output

CFO

Custom fixture output (specify custom lumen output or wattage lower than standard)

Emergency

E10

10-watt integral emergency battery

E20RL

20-watt remote mounted emergency battery

Integral batteries available on 4' and 8' models only, contact Factory for details.

Mounting

2P10

2-Point aircraft suspension - hook ends (galvanized)

SM

Surface mount, no additional hardware provided

20' and 30' cable lengths available, contact Factory for details.

Cord

(leave blank)

No cord provided

3/10

3-wire, 10' cord

Standard white

4/10

4-wire, 10' cord

Standard white

5/10

5-wire, 10' cord

Standard white

6/10

6-wire, 10' cord

Standard white

Other cord lengths available as well as multi-circuit wiring and through-wiring options.

Standard 1/2" knockout provided in endcap for cord installation.

1st digit: Number of wires, including ground. Available from 3 through 6.

2nd digit: Overall length, including strips. Available from 10' through 30'.

Controls

OC-KO

Knockout mounted on/off occupancy sensor (120-277V input)

DO-KO

Knockout mounted daylight harvesting sensor (120-277V input)

OCKH

High Voltage (347/480V) knockout-mounted on/off occupancy sensor, **not installed**

DOKH

High Voltage (347/480V) knockout-mounted high/low/off occupancy and daylight harvesting sensor, **not installed**

Wireless Controls Multiple wireless control systems available. Contact Factory for options and details

Options and Accessories Cont.

Application (Select all that apply)

GEN	General applications (Not rated for WET, NSF, or high abuse environments)
MFG	Manufacturing or industrial
WHS	Warehousing or storage
HNG	Hangar
ARCH	Architectural (White lensing recommended)
GAR	Garage or canopy
FRZ	Freezer or cold storage

Lumen Multipliers

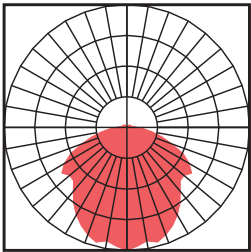
Lens	
Standard/Nominal = WA Lens	
Lumen Multipliers Compared to "Nominal"	
CA	108.9%
WA (nominal)	100.0%
N	106.9%

CCT	
Standard/Nominal = 3500K CCT	
Lumen Multipliers Compared to "Nominal"	
3500K (nominal)	100.0%
4000K	103.0%
5000K	103.0%

Optical Distribution

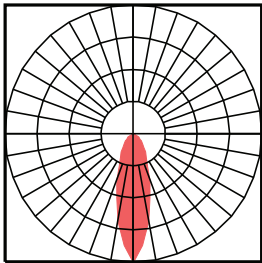
Lensed (CA or WA)

Achieved using either of our standard lenses

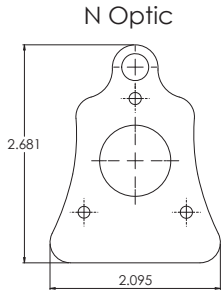
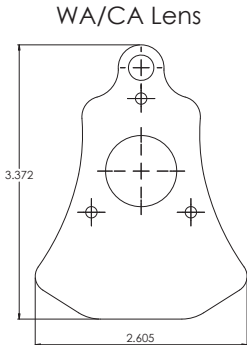
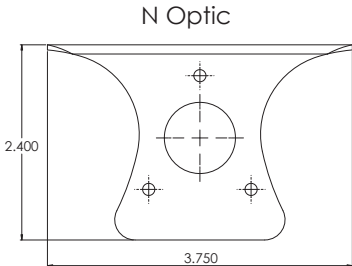
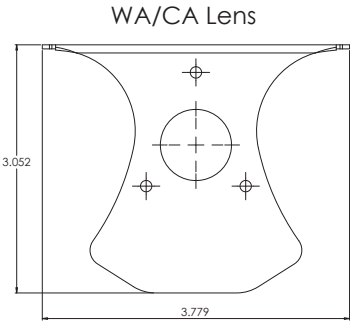


Narrow Optic (N)

Achieved using a molded-acrylic, prismatic optic



Endcap Option Details



Surface Mount

Surface mount endcap (surface-mounting hardware provided by others)

Hanger Mount

2Pxx: Aircraft cable mounting with snap hooks (xx denotes cable length)

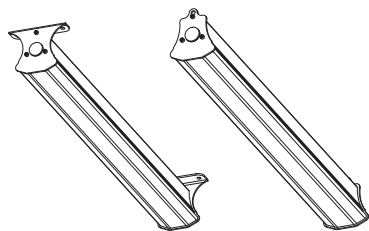
Technical Specifications

White and Clear Lens Performance

Part

BASE-2-850 (for 5000K), BASE-2-840 (for 4000K) or BASE-2-835 (for 3500K)

- 23.14"L x 3.75"W x 3.34"H
- Weight: 3 LBS



3500K

BASE-2-835			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-2-3lm-835-U10-xx-CA	3,274	21	157
BASE-2-835-U10-xx-CA	6,223	42	148
BASE-2-3lm-835-U10-xx-WA	3,007	21	144
BASE-2-835-U10-xx-WA	5,715	42	136

4000K

BASE-2-840			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-2-3lm-840-U10-xx-CA	3,373	21	162
BASE-2-840-U10-xx-CA	6,410	42	153
BASE-2-3lm-840-U10-xx-WA	3,098	21	149
BASE-2-840-U10-xx-WA	5,887	42	140

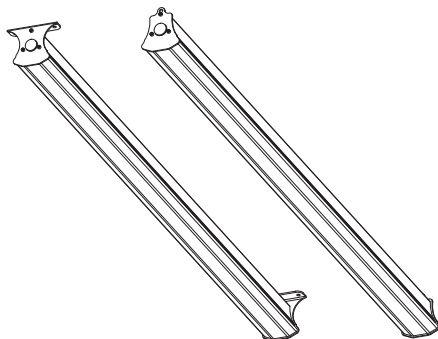
5000K

BASE-2-850			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-2-3lm-850-U10-xx-CA	3,373	21	162
BASE-2-850-U10-xx-CA	6,410	42	153
BASE-2-3lm-850-U10-xx-WA	3,098	21	149
BASE-2-850-U10-xx-WA	5,887	42	140

Part

BASE-4-850 (FOR 5000K), BASE-4-840 (for 4000K) or BASE-4-835 (for 3500K)

- 46.20"L x 3.75"W x 3.34"H
- Weight: 6 LBS



3500K

BASE-4-835			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-4-6lm-835-U10-xx-CA	6,549	42	157
BASE-4-835-U10-xx-CA	12,445	84	148
BASE-4-6lm-835-U10-xx-WA	6,014	42	144
BASE-4-835-U10-xx-WA	11,430	84	136

4000K

BASE-4-840			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-4-6lm-840-U10-xx-CA	6,746	42	162
BASE-4-840-U10-xx-CA	12,819	84	153
BASE-4-6lm-840-U10-xx-WA	6,195	42	149
BASE-4-840-U10-xx-WA	11,773	84	140

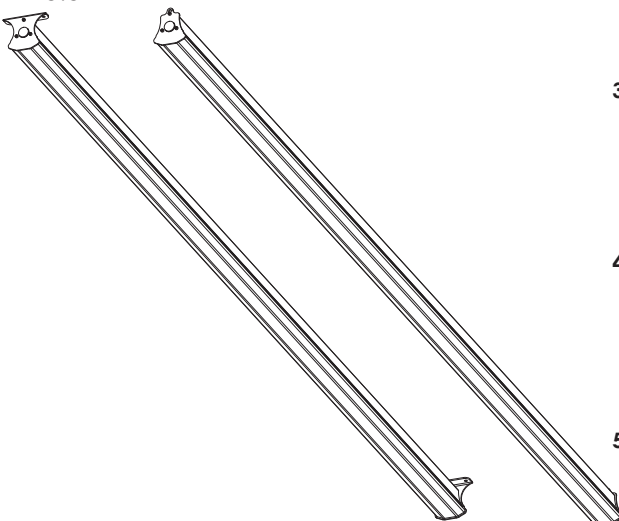
5000K

BASE-4-850			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-4-6lm-850-U10-xx-CA	6,746	42	162
BASE-4-850-U10-xx-CA	12,819	84	153
BASE-4-6lm-850-U10-xx-WA	6,195	42	149
BASE-4-850-U10-xx-WA	11,773	84	140

Part

BASE-8-850 (for 5000K), BASE-8-840 (for 4000K) or BASE-8-835 (for 3500K)

- 91.20"L x 3.75"W x 3.34"H
- Weight: 11 LBS



3500K

BASE-8-835			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-8-6lm-835-U10-xx-CA	6,549	42	157
BASE-8-12lm-835-U10-xx-CA	13,098	83	157
BASE-8-835-U10-xx-CA	24,891	168	148
BASE-8-6lm-835-U10-xx-WA	6,014	42	144
BASE-8-12lm-835-U10-xx-WA	12,029	83	144
BASE-8-835-U10-xx-WA	22,859	168	136

4000K

BASE-8-840			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-8-6lm-840-U10-xx-CA	6,746	42	162
BASE-8-12lm-840-U10-xx-CA	13,491	83	162
BASE-8-840-U10-xx-CA	25,639	168	153
BASE-8-6lm-840-U10-xx-WA	6,195	42	149
BASE-8-12lm-840-U10-xx-WA	12,390	83	149
BASE-8-840-U10-xx-WA	23,546	168	140

5000K

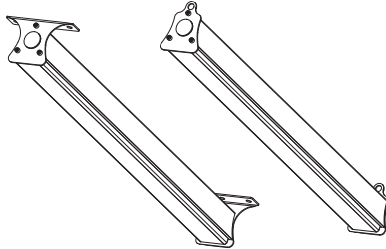
BASE-8-850			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-8-6lm-850-U10-xx-CA	6,746	42	162
BASE-8-12lm-850-U10-xx-CA	13,491	83	162
BASE-8-850-U10-xx-CA	25,639	168	153
BASE-8-6lm-850-U10-xx-WA	6,195	42	149
BASE-8-12lm-850-U10-xx-WA	12,390	83	149
BASE-8-850-U10-xx-WA	23,546	168	140

Technical Specifications Narrow Optic Performance

Part

BASE-2-850-N (for 5000K), BASE-2-840-N (for 4000K) or BASE-2-835-N (for 3500K)

- 22.53"L x 3.75"W x 2.40"H
- Weight: 3 LBS



3500K

BASE-2-835 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-2-3lm-835-U10-xx-N	3,215	21	154
BASE-2-835-U10-xx-N	6,109	42	146

4000K

BASE-2-840 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-2-3lm-840-U10-xx-N	3,311	84	39
BASE-2-840-U10-xx-N	6,292	42	151

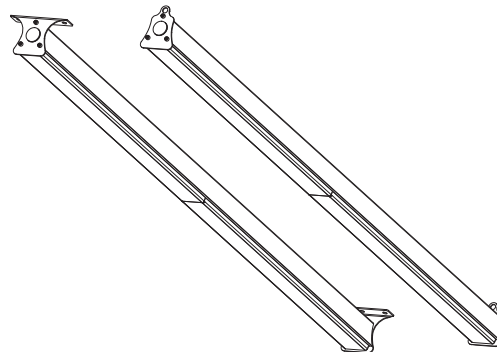
5000K

BASE-2-850 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-2-3lm-850-U10-xx-N	3,311	84	39
BASE-2-850-U10-xx-N	6,292	42	151

Part

BASE-4-850-N (FOR 5000K), BASE-4-840-N (for 4000K) or BASE-4-835-N (for 3500K)

- 44.73"L x 3.75"W x 2.40"H
- Weight: 6 LBS



3500K

BASE-4-835 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-4-6lm-835-U10-xx-N	6,429	42	154
BASE-4-835-U10-xx-N	12,218	84	146

4000K

BASE-4-840 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-4-6lm-840-U10-xx-N	6,622	42	159
BASE-4-840-U10-xx-N	12,585	84	150

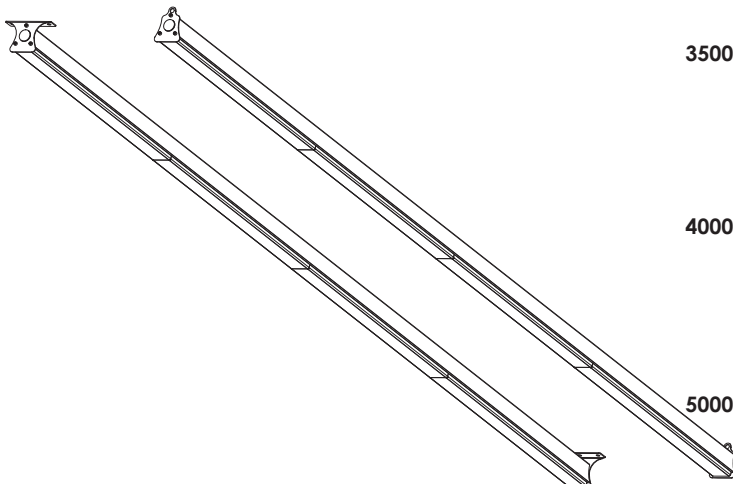
5000K

BASE-4-850 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-4-6lm-850-U10-xx-N	6,622	42	159
BASE-4-850-U10-xx-N	12,585	84	150

Part

BASE-8-850-N (for 5000K), BASE-8-840-N (for 4000K) or BASE-8-835-N (for 3500K)

- 89.13"L x 3.75"W x 2.40"H
- Weight: 11 LBS



3500K

BASE-8-835 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-8-6lm-835-U10-xx-N	6,429	42	154
BASE-8-12lm-835-U10-xx-N	12,858	83	154
BASE-8-835-U10-xx-N	24,436	168	146

4000K

BASE-8-840 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-8-6lm-840-U10-xx-N	6,622	42	159
BASE-8-12lm-840-U10-xx-N	13,244	83	159
BASE-8-840-U10-xx-N	25,170	168	150

5000K

BASE-8-850 with Narrow Optic			
Lens Option	Delivered Lumens	Wattage	Efficacy
BASE-8-6lm-850-U10-xx-N	6,622	42	159
BASE-8-12lm-850-U10-xx-N	13,244	83	159
BASE-8-850-U10-xx-N	25,170	168	150

WTZ



407-478-3759
www.ilp-inc.com

NARROW LINEAR VAPOR TIGHT

FEATURES

- Robust & Durable Narrow Body Linear Vapor Tight
- Industry Leading Max Ambient up to 131F
 - Ambient Range -40°F to 131°F (Select Models)
- Extremely High Efficacy up to 156 lm/W
- 2ft, 4ft & 8ft Fixture Lengths
- Lumen Packages Ranging 2,000–24,000
- Surface, Pendant, Wall & Suspended Mounting Options
- Wireless Grouping Controls Options
- Multiple Lens Options
- Fiberglass Body Attributes:
 - F1 Weatherability Rating & 5VA Flame Rating
 - IP65, IP66 & IP67, NEMA4X, NSF, & 1500 PSI Hosedown
- 3000K–5000K CCT
- >80 Color Rendering Index (CRI)
- Calculated L70 >100,000 Hours
- 0-10V Dimmable Driver (100%–10%)
- 5 Year Warranty
- ETL Listed for Wet Location
- DesignLights Consortium® Premium Qualified Luminaire



SUITABLE APPLICATIONS

- Coolers & Freezers • Food & Beverage Preparation • Greenhouse • Pharmaceutical • Healthcare • Education • Industrial • Parking Garage • Natatorium ²¹

ORDERING GUIDE:

SERIES	LUMENS (select one)				DRIVER	CCT	LENS	AMBIENT TEMP ¹	WARRANTY
WTZ2 2ft Amazon	2L	3L	4L	6L	U 120-277V	50	RAFL Ribbed Acrylic Frosted (Std)	BLANK Standard	(Blank) 5YR
						40	SAFL Smooth Acrylic Frosted	CT -40°F Cold Start	10YR 10YR
WTZ4 4ft Amazon	3L	4L	5L	6L		35	SACL Smooth Acrylic Clear		
	7L	8L	9L	10L		30	SPFL Smooth Polycarbonate Frosted		
	12L						SPCL Smooth Polycarbonate Clear		
WTZ8 8ft Amazon	6L	8L	10L	12L					
	14L	16L	18L	24L					

OPTIONS		CONTROLS OPTIONS	
Factory Installed		Basic	
SD347 ^{16,18}	347V Step Down Transformer	WLOS ^{3,5}	Wet-Location Rated On/Off End Mounted Occupancy Sensor
SD480 ^{16,18}	480V Step Down Transformer	WLOSPC ^{3,5}	Wet-Location Rated On/Off End Mounted Occ Sensor w/ Photocell
DIM1	1% Dimming Driver	USBD ^{3,5}	User Selectable Bi-Level Dimming End Mounted Sensor
SS	Stainless Steel Latches	BDxx ^{3,5}	Preset Bi-Level Dimming End Mounted Sensor
TPS	Tamper Proof Screws	BDxxPC ^{3,5}	Preset Bi-Level Dimming End Mounted Sensor w/ Photocell
EM5 ⁶	5W LED Battery Backup	MWS ^{2,3,4,7}	On/Off Microwave Sensor Installed Behind Lens
EM5/HE ^{6,8,17}	5W LED Battery Backup - CEC Title 20 Compliant	MWUSBD ^{2,3,4,7,10}	User Selectable Bi-Level Dimming Microwave Sensor Installed Behind Lens
EM7 ⁶	7W Battery Backup		
EM7/HE ^{6,8,17}	7W Battery Backup -CEC Title 20 Compliant		
EM10 ⁶	10W Battery Backup		
EM10/HE ^{6,8}	10W Battery Backup - CEC Title 20 Compliant		
EM10/HE/SD ^{6,8}	10W Self-Diagnostic Battery Backup - CEC Title 20 Compliant		
EM12 ⁶	12W Battery Backup		
GTD ⁷	Generator Transfer Device		
EMCT14 ⁷	14W LED Cold Temp Battery Backup; -4°F (-20°C)	ESMC/HB ^{2,5,9}	EasySense High-Bay Sensor
EMCT8 ²⁰	8W Cold Temp Battery Backup -22°F (-30°C)	SS/HRW/CL ^{2,5}	Enlighted Ruggedized Connected Lighting (CL) Sensor w/ Control Unit
EMCT6 ²¹	6W Cold Temp Battery Backup -40°F (-40°C)	SS/HRW/IOT ^{2,5}	Enlighted Ruggedized Internet of Things (IOT) Sensor w/ Control Unit
SP10	10kA Surge Protector Installed	FSP-311B/L2 ^{3,5}	Legrand FSP-311 Bluetooth Programming sensor-8' mounting height
Cx/3W	3-wire cord standard fixtures (xFT = Length)	FSP-311B/L3 ^{3,5}	Legrand FSP-311 Bluetooth Programming sensor-20' mounting height
Cx/4W	4-wire cord used for EM fixtures (xFT = Length)	FSP-311B/L7 ^{3,5}	Legrand FSP-311 Bluetooth Programming sensor-40' mounting height
Cx/5W	5-wire cord used for non-EM fixtures with external dim control (xFT = Length) (x=6,10,15,20)		
Cx/6W	6-wire cord used for EM fixtures with external dim control (xFT = Length) (x=6,10,15,20)		
3WMR ³	3-wire mini receptacle installed		
3WMR/6 ³	3-wire mini receptacle installed with 6ft cord		
EMH1 ¹¹	1/2" HUB installed in one end of housing for power entry		
EMH2 ¹²	1/2" HUB installed in both ends of housing for power entry		
Mounting Options		Ship With Accessories	
ACxL	Adjustable Loop aircraft cable set (x = 5' or 10')	ES/WWS/DR	EasySense Dual Rocker Wireless Wall Switch
ACxL/SS	Stainless Adjustable Loop aircraft cable set (x = 5' or 10')	MW/RC	Programming Tool for MWUSBD sensor
HUB 1/2 ^{13,17}	Conduit Hub 1/2" for Top Power Entry		
HUB 3/4 ^{13,15}	Conduit Hub 3/4" for Pendant Mounting		
FMB ^{14,15}	Fixture Mounting Box for Pendant Mounting		
AB45DEG/SS	45 Degree Stainless Steel Angled Mounting Bracket Set		

¹Reference Ambient Temp. Range Table for more detail (pg. 4) ⁴Operating temp down to 32°F
²IP65 Rated ⁷Operating temp down to -4°F
³IP66 Rated ¹²CEC Title 20 Compliant
⁴IP67 Rated ¹³Easily Controlled via Mobile Phone with Philips MasterConnect Bluetooth App
⁵Does not qualify for NSF Listed ¹⁰Must be used with MW/RC option for commissioning
¹¹Cannot be used with combination of End Mounted sensor & power cord
¹²Cannot be used w/ End Mounted sensor or power cord
¹³Must use with FMB for pendant mounting
¹⁴Must use with HUB 3/4 for pendant mounting
¹⁵One required per 4ft section
¹⁶Reference DLC website for current listing
¹⁷Not available on WTZ2
¹⁸Not compatible with EM options
¹⁹When used with PC Lens and SS Latches
²⁰Operating temp down to -22°F
²¹Operating temp down to -40°F

NARROW LINEAR VAPOR TIGHT



QUICK SHIP ITEMS:

SERIES	LUMENS/WATTAGE	DRIVER	COLOR	PRIMARY LENS
WTZ4 4ft Amazon	4L 7L	U 120-277V	50 40	RAFL Ribbed Acrylic Frosted
WTZ8 8ft Amazon	12L	U 120-277V	50 40	RAFL Ribbed Acrylic Frosted

SYSTEMS INFO ¹	3000K		3500K		4000K		5000K		Watts ²	CRI	Replaces
Part Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy			
WTZ2-2L-U-XX-RAFL	2,355 lm	125 lm/W	2,431 lm	129 lm/W	2,532 lm	135 lm/W	2,532 lm	135 lm/W	19W	>80	1T8
WTZ2-2L-U-XX-SAFL	2,316 lm	123 lm/W	2,391 lm	127 lm/W	2,490 lm	132 lm/W	2,490 lm	132 lm/W			
WTZ2-2L-U-XX-SACL	2,511 lm	133 lm/W	2,592 lm	138 lm/W	2,700 lm	143 lm/W	2,700 lm	143 lm/W			
WTZ2-2L-U-XX-SPFL	2,143 lm	114 lm/W	2,583 lm	137 lm/W	2,305 lm	122 lm/W	2,305 lm	122 lm/W			
WTZ2-2L-U-XX-SPCL	2,502 lm	133 lm/W	2,583 lm	137 lm/W	2,691 lm	143 lm/W	2,691 lm	143 lm/W			
WTZ2-3L-U-XX-RAFL	3,053 lm	124 lm/W	3,152 lm	128 lm/W	3,283 lm	133 lm/W	3,283 lm	133 lm/W	25W	>80	1T8
WTZ2-3L-U-XX-SAFL	3,003 lm	122 lm/W	3,100 lm	126 lm/W	3,229 lm	131 lm/W	3,229 lm	131 lm/W			
WTZ2-3L-U-XX-SACL	3,256 lm	132 lm/W	3,361 lm	136 lm/W	3,501 lm	142 lm/W	3,501 lm	142 lm/W			
WTZ2-3L-U-XX-SPFL	2,779 lm	113 lm/W	2,869 lm	116 lm/W	2,988 lm	121 lm/W	2,988 lm	121 lm/W			
WTZ2-3L-U-XX-SPCL	3,244 lm	131 lm/W	3,349 lm	136 lm/W	3,489 lm	141 lm/W	3,489 lm	141 lm/W			
WTZ2-4L-U-XX-RAFL	3,877 lm	122 lm/W	4,002 lm	126 lm/W	4,169 lm	132 lm/W	4,169 lm	132 lm/W	32W	>80	2T8
WTZ2-4L-U-XX-SAFL	3,814 lm	120 lm/W	3,937 lm	124 lm/W	4,101 lm	129 lm/W	4,101 lm	129 lm/W			
WTZ2-4L-U-XX-SACL	4,039 lm	131 lm/W	4,268 lm	135 lm/W	4,445 lm	140 lm/W	4,445 lm	140 lm/W			
WTZ2-4L-U-XX-SPFL	3,529 lm	111 lm/W	3,643 lm	115 lm/W	3,795 lm	120 lm/W	3,795 lm	120 lm/W			
WTZ2-4L-U-XX-SPCL	4,025 lm	130 lm/W	4,253 lm	134 lm/W	4,430 lm	140 lm/W	4,430 lm	140 lm/W			
WTZ2-6L-U-XX-RAFL	4,968 lm	124 lm/W	5,128 lm	128 lm/W	5,342 lm	134 lm/W	5,342 lm	134 lm/W	40W	>80	3T8
WTZ2-6L-U-XX-SAFL	4,887 lm	122 lm/W	5,044 lm	126 lm/W	5,254 lm	131 lm/W	5,254 lm	131 lm/W			
WTZ2-6L-U-XX-SACL	5,297 lm	133 lm/W	5,468 lm	137 lm/W	5,696 lm	142 lm/W	5,696 lm	142 lm/W			
WTZ2-6L-U-XX-SPFL	4,522 lm	113 lm/W	4,668 lm	117 lm/W	4,862 lm	122 lm/W	4,862 lm	122 lm/W			
WTZ2-6L-U-XX-SPCL	5,279 lm	132 lm/W	5,449 lm	136 lm/W	5,676 lm	142 lm/W	5,676 lm	142 lm/W			
WTZ4-3L-U-XX-RAFL	2,822 lm	134 lm/W	2,913 lm	138 lm/W	3,034 lm	144 lm/W	3,034 lm	144 lm/W	21W	>80	1T8
WTZ4-3L-U-XX-SAFL	2,775 lm	132 lm/W	2,865 lm	136 lm/W	2,984 lm	142 lm/W	2,984 lm	142 lm/W			
WTZ4-3L-U-XX-SACL	3,009 lm	143 lm/W	3,106 lm	148 lm/W	3,235 lm	154 lm/W	3,235 lm	154 lm/W			
WTZ4-3L-U-XX-SPFL	2,568 lm	122 lm/W	2,651 lm	126 lm/W	2,762 lm	131 lm/W	2,762 lm	131 lm/W			
WTZ4-3L-U-XX-SPCL	2,998 lm	142 lm/W	3,095 lm	147 lm/W	3,224 lm	153 lm/W	3,224 lm	153 lm/W			
WTZ4-4L-U-XX-RAFL	3,789 lm	132 lm/W	3,911 lm	137 lm/W	4,074 lm	142 lm/W	4,074 lm	142 lm/W	29W	>80	2T8
WTZ4-4L-U-XX-SAFL	3,727 lm	130 lm/W	3,847 lm	134 lm/W	4,007 lm	140 lm/W	4,007 lm	140 lm/W			
WTZ4-4L-U-XX-SACL	4,040 lm	141 lm/W	4,170 lm	146 lm/W	4,344 lm	152 lm/W	4,344 lm	152 lm/W			
WTZ4-4L-U-XX-SPFL	3,449 lm	120 lm/W	3,560 lm	124 lm/W	3,708 lm	129 lm/W	3,708 lm	129 lm/W			
WTZ4-4L-U-XX-SPCL	4,026 lm	141 lm/W	4,156 lm	145 lm/W	4,329 lm	151 lm/W	4,329 lm	151 lm/W			
WTZ4-5L-U-XX-RAFL	4,818 lm	127 lm/W	4,993 lm	132 lm/W	5,201 lm	137 lm/W	5,201 lm	137 lm/W	38W	>80	1T5HO
WTZ4-5L-U-XX-SAFL	4,758 lm	125 lm/W	4,911 lm	129 lm/W	5,116 lm	135 lm/W	5,116 lm	135 lm/W			
WTZ4-5L-U-XX-SACL	5,158 lm	136 lm/W	5,324 lm	140 lm/W	5,546 lm	146 lm/W	5,546 lm	146 lm/W			
WTZ4-5L-U-XX-SPFL	4,403 lm	116 lm/W	4,545 lm	120 lm/W	4,734 lm	125 lm/W	4,734 lm	125 lm/W			
WTZ4-5L-U-XX-SPCL	5,140 lm	135 lm/W	5,306 lm	140 lm/W	5,527 lm	146 lm/W	5,527 lm	146 lm/W			
WTZ4-6L-U-XX-RAFL	6,050 lm	128 lm/W	6,245 lm	132 lm/W	6,505 lm	137 lm/W	6,505 lm	137 lm/W	47W	>80	3T8
WTZ4-6L-U-XX-SAFL	5,950 lm	126 lm/W	6,142 lm	130 lm/W	6,398 lm	135 lm/W	6,398 lm	135 lm/W			
WTZ4-6L-U-XX-SACL	6,451 lm	136 lm/W	6,659 lm	141 lm/W	6,936 lm	146 lm/W	6,936 lm	146 lm/W			
WTZ4-6L-U-XX-SPFL	5,506 lm	116 lm/W	5,684 lm	120 lm/W	5,921 lm	125 lm/W	5,921 lm	125 lm/W			
WTZ4-6L-U-XX-SPCL	6,428 lm	136 lm/W	6,636 lm	140 lm/W	6,912 lm	146 lm/W	6,912 lm	146 lm/W			
WTZ4-7L-U-XX-RAFL	7,021 lm	127 lm/W	7,247 lm	131 lm/W	7,549 lm	137 lm/W	7,549 lm	137 lm/W	55W	>80	3T8
WTZ4-7L-U-XX-SAFL	6,905 lm	125 lm/W	7,128 lm	129 lm/W	7,425 lm	134 lm/W	7,425 lm	134 lm/W			
WTZ4-7L-U-XX-SACL	7,486 lm	135 lm/W	7,728 lm	140 lm/W	8,050 lm	146 lm/W	8,050 lm	146 lm/W			
WTZ4-7L-U-XX-SPFL	6,390 lm	116 lm/W	6,596 lm	119 lm/W	6,871 lm	124 lm/W	6,871 lm	124 lm/W			
WTZ4-7L-U-XX-SPCL	7,460 lm	135 lm/W	7,701 lm	139 lm/W	8,022 lm	145 lm/W	8,022 lm	145 lm/W			
WTZ4-8L-U-XX-RAFL	8,061 lm	132 lm/W	8,321 lm	136 lm/W	8,668 lm	142 lm/W	8,668 lm	142 lm/W	61W	>80	2T5HO
WTZ4-8L-U-XX-SAFL	7,929 lm	129 lm/W	8,185 lm	134 lm/W	8,526 lm	139 lm/W	8,526 lm	139 lm/W			
WTZ4-8L-U-XX-SACL	8,596 lm	140 lm/W	8,873 lm	145 lm/W	9,243 lm	151 lm/W	9,243 lm	151 lm/W			
WTZ4-8L-U-XX-SPFL	7,337 lm	120 lm/W	7,574 lm	124 lm/W	7,890 lm	129 lm/W	7,890 lm	129 lm/W			
WTZ4-8L-U-XX-SPCL	8,566 lm	140 lm/W	8,842 lm	144 lm/W	9,211 lm	150 lm/W	9,211 lm	150 lm/W			

WTZ

NARROW LINEAR VAPOR TIGHT

SYSTEMS INFO ¹	3000K		3500K		4000K		5000K		Watts ²	CRI	Replaces
	Part Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy		
WTZ4-9L-U-XX-RAFL	8,703 lm	133 lm/W	8,984 lm	137 lm/W	9,358 lm	143 lm/W	9,358 lm	143 lm/W	66W	>80	2T5HO
WTZ4-9L-U-XX-SAFL	8,560 lm	131 lm/W	8,836 lm	135 lm/W	9,205 lm	141 lm/W	9,205 lm	141 lm/W			
WTZ4-9L-U-XX-SACL	9,280 lm	142 lm/W	9,579 lm	146 lm/W	9,978 lm	152 lm/W	9,978 lm	152 lm/W			
WTZ4-9L-U-XX-SPFL	7,921 lm	121 lm/W	8,177 lm	125 lm/W	8,518 lm	130 lm/W	8,518 lm	130 lm/W			
WTZ4-9L-U-XX-SPCL	9,248 lm	141 lm/W	9,546 lm	146 lm/W	9,944 lm	152 lm/W	9,944 lm	152 lm/W			
WTZ4-10L-U-XX-RAFL	9,528 lm	131 lm/W	9,835 lm	136 lm/W	10,245 lm	141 lm/W	10,245 lm	141 lm/W	73W	>80	4T8
WTZ4-10L-U-XX-SAFL	9,372 lm	129 lm/W	9,674 lm	133 lm/W	10,077 lm	139 lm/W	10,077 lm	139 lm/W			
WTZ4-10L-U-XX-SACL	10,160 lm	140 lm/W	10,487 lm	145 lm/W	10,924 lm	151 lm/W	10,924 lm	151 lm/W			
WTZ4-10L-U-XX-SPFL	8,672 lm	120 lm/W	8,952 lm	124 lm/W	9,325 lm	129 lm/W	9,325 lm	129 lm/W			
WTZ4-10L-U-XX-SPCL	10,124 lm	140 lm/W	10,451 lm	144 lm/W	10,886 lm	150 lm/W	10,886 lm	150 lm/W			
WTZ4-12L-U-XX-RAFL	12,099 lm	130 lm/W	12,490 lm	134 lm/W	13,010 lm	139 lm/W	13,010 lm	139 lm/W	93W	>80	3T5HO
WTZ4-12L-U-XX-SAFL	11,901 lm	128 lm/W	12,285 lm	132 lm/W	12,797 lm	137 lm/W	12,797 lm	137 lm/W			
WTZ4-12L-U-XX-SACL	12,902 lm	138 lm/W	13,318 lm	143 lm/W	13,873 lm	149 lm/W	13,873 lm	149 lm/W			
WTZ4-12L-U-XX-SPFL	11,013 lm	118 lm/W	11,368 lm	122 lm/W	11,842 lm	127 lm/W	11,842 lm	127 lm/W			
WTZ4-12L-U-XX-SPCL	12,857 lm	138 lm/W	13,271 lm	142 lm/W	13,824 lm	148 lm/W	13,824 lm	148 lm/W			
WTZ8-6L-U-XX-RAFL	6,314 lm	136 lm/W	6,517 lm	140 lm/W	6,789 lm	146 lm/W	6,789 lm	146 lm/W	47W	>80	2T8
WTZ8-6L-U-XX-SAFL	6,210 lm	134 lm/W	6,411 lm	138 lm/W	6,678 lm	144 lm/W	6,678 lm	144 lm/W			
WTZ8-6L-U-XX-SACL	6,732 lm	145 lm/W	6,950 lm	150 lm/W	7,239 lm	156 lm/W	7,239 lm	156 lm/W			
WTZ8-6L-U-XX-SPFL	5,747 lm	124 lm/W	5,932 lm	128 lm/W	6,179 lm	133 lm/W	6,179 lm	133 lm/W			
WTZ8-6L-U-XX-SPCL	6,709 lm	144 lm/W	6,925 lm	149 lm/W	7,214 lm	155 lm/W	7,214 lm	155 lm/W			
WTZ8-8L-U-XX-RAFL	8,307 lm	132 lm/W	8,575 lm	137 lm/W	8,932 lm	142 lm/W	8,932 lm	142 lm/W	63W	>80	2T8
WTZ8-8L-U-XX-SAFL	8,171 lm	130 lm/W	8,434 lm	134 lm/W	8,786 lm	140 lm/W	8,786 lm	140 lm/W			
WTZ8-8L-U-XX-SACL	8,858 lm	141 lm/W	9,143 lm	146 lm/W	9,524 lm	152 lm/W	9,524 lm	152 lm/W			
WTZ8-8L-U-XX-SPFL	7,561 lm	120 lm/W	7,805 lm	124 lm/W	8,130 lm	130 lm/W	8,130 lm	130 lm/W			
WTZ8-8L-U-XX-SPCL	8,827 lm	141 lm/W	9,112 lm	145 lm/W	9,491 lm	151 lm/W	9,491 lm	151 lm/W			
WTZ8-10L-U-XX-RAFL	9,802 lm	129 lm/W	10,118 lm	133 lm/W	10,540 lm	138 lm/W	10,540 lm	138 lm/W	76W	>80	3T5HO
WTZ8-10L-U-XX-SAFL	9,641 lm	127 lm/W	9,952 lm	131 lm/W	10,367 lm	136 lm/W	10,367 lm	136 lm/W			
WTZ8-10L-U-XX-SACL	10,452 lm	137 lm/W	10,789 lm	142 lm/W	11,239 lm	147 lm/W	11,239 lm	147 lm/W			
WTZ8-10L-U-XX-SPFL	8,922 lm	117 lm/W	9,210 lm	121 lm/W	9,594 lm	126 lm/W	9,594 lm	126 lm/W			
WTZ8-10L-U-XX-SPCL	10,416 lm	137 lm/W	10,752 lm	141 lm/W	11,200 lm	147 lm/W	11,200 lm	147 lm/W			
WTZ8-12L-U-XX-RAFL	10,968 lm	135 lm/W	11,321 lm	139 lm/W	11,793 lm	145 lm/W	11,793 lm	145 lm/W	81W	>80	6T8
WTZ8-12L-U-XX-SAFL	10,788 lm	133 lm/W	11,136 lm	137 lm/W	11,600 lm	143 lm/W	11,600 lm	143 lm/W			
WTZ8-12L-U-XX-SACL	11,695 lm	144 lm/W	12,072 lm	148 lm/W	12,575 lm	155 lm/W	12,575 lm	155 lm/W			
WTZ8-12L-U-XX-SPFL	9,983 lm	123 lm/W	10,305 lm	127 lm/W	10,734 lm	132 lm/W	10,734 lm	132 lm/W			
WTZ8-12L-U-XX-SPCL	11,654 lm	143 lm/W	12,030 lm	148 lm/W	12,531 lm	154 lm/W	12,531 lm	154 lm/W			
WTZ8-14L-U-XX-RAFL	13,468 lm	130 lm/W	13,903 lm	134 lm/W	14,482 lm	140 lm/W	14,482 lm	140 lm/W	103W	>80	6T8
WTZ8-14L-U-XX-SAFL	13,247 lm	128 lm/W	13,675 lm	132 lm/W	14,245 lm	138 lm/W	14,245 lm	138 lm/W			
WTZ8-14L-U-XX-SACL	14,361 lm	139 lm/W	14,825 lm	143 lm/W	15,442 lm	149 lm/W	15,442 lm	149 lm/W			
WTZ8-14L-U-XX-SPFL	12,259 lm	119 lm/W	12,654 lm	122 lm/W	13,182 lm	127 lm/W	13,182 lm	127 lm/W			
WTZ8-14L-U-XX-SPCL	14,311 lm	138 lm/W	14,773 lm	143 lm/W	15,389 lm	149 lm/W	15,389 lm	149 lm/W			
WTZ8-16L-U-XX-RAFL	15,218 lm	130 lm/W	15,709 lm	134 lm/W	16,363 lm	139 lm/W	16,363 lm	139 lm/W	117W	>80	4T5HO
WTZ8-16L-U-XX-SAFL	14,968 lm	127 lm/W	15,451 lm	132 lm/W	16,095 lm	137 lm/W	16,095 lm	137 lm/W			
WTZ8-16L-U-XX-SACL	16,227 lm	138 lm/W	16,750 lm	143 lm/W	17,448 lm	149 lm/W	17,448 lm	149 lm/W			
WTZ8-16L-U-XX-SPFL	13,851 lm	118 lm/W	14,298 lm	122 lm/W	14,894 lm	127 lm/W	14,894 lm	127 lm/W			
WTZ8-16L-U-XX-SPCL	16,170 lm	138 lm/W	16,692 lm	142 lm/W	17,387 lm	148 lm/W	17,387 lm	148 lm/W			
WTZ8-18L-U-XX-RAFL	16,614 lm	136 lm/W	17,149 lm	140 lm/W	17,864 lm	146 lm/W	17,864 lm	146 lm/W	122W	>80	6T5HO
WTZ8-18L-U-XX-SAFL	16,341 lm	133 lm/W	16,868 lm	138 lm/W	17,571 lm	144 lm/W	17,571 lm	144 lm/W			
WTZ8-18L-U-XX-SACL	17,715 lm	145 lm/W	18,286 lm	150 lm/W	19,048 lm	156 lm/W	19,048 lm	156 lm/W			
WTZ8-18L-U-XX-SPFL	15,122 lm	124 lm/W	15,609 lm	128 lm/W	16,260 lm	133 lm/W	16,260 lm	133 lm/W			
WTZ8-18L-U-XX-SPCL	17,654 lm	144 lm/W	18,223 lm	149 lm/W	18,982 lm	155 lm/W	18,982 lm	155 lm/W			
WTZ8-24L-U-XX-RAFL	21,936 lm	136 lm/W	22,644 lm	140 lm/W	23,587 lm	146 lm/W	23,587 lm	146 lm/W	162W	>80	6T5HO
WTZ8-24L-U-XX-SAFL	21,576 lm	133 lm/W	22,272 lm	138 lm/W	23,200 lm	144 lm/W	23,200 lm	144 lm/W			
WTZ8-24L-U-XX-SACL	23,390 lm	145 lm/W	24,145 lm	149 lm/W	25,151 lm	156 lm/W	25,151 lm	156 lm/W			
WTZ8-24L-U-XX-SPFL	19,966 lm	124 lm/W	20,610 lm	128 lm/W	21,469 lm	133 lm/W	21,469 lm	133 lm/W			
WTZ8-24L-U-XX-SPCL	23,309 lm	144 lm/W	24,061 lm	149 lm/W	25,064 lm	155 lm/W	25,064 lm	155 lm/W			

¹Values are nominal, see IES file for more detail

²Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

NARROW LINEAR VAPOR TIGHT

AMBIENT TEMPERATURE RANGE

Part Numbers	Suspended (18 in.)	Surface Mount
	Standard ¹	Standard ¹
WTZ2-2L-U-XX-RAFL	-4°F to 127°F	-4°F to 126°F
WTZ2-3L-U-XX-RAFL	-4°F to 122°F	-4°F to 112°F
WTZ2-4L-U-XX-RAFL	-4°F to 115°F	-4°F to 103°F
WTZ2-6L-U-XX-RAFL	-4°F to 110°F	-4°F to 96°F
WTZ4-3L-U-XX-RAFL	-4°F to 132°F	-4°F to 130°F
WTZ4-4L-U-XX-RAFL	-4°F to 129°F	-4°F to 122°F
WTZ4-5L-U-XX-RAFL	-4°F to 127°F	-4°F to 115°F
WTZ4-6L-U-XX-RAFL	-4°F to 126°F	-4°F to 113°F
WTZ4-7L-U-XX-RAFL	-4°F to 125°F	-4°F to 111°F
WTZ4-8L-U-XX-RAFL	-40°F to 124°F	-40°F to 108°F
WTZ4-9L-U-XX-RAFL	-4°F to 122°F	-4°F to 104°F
WTZ4-10L-U-XX-RAFL	-40°F to 130°F	-40°F to 119°F
WTZ4-12L-U-XX-RAFL	-40°F to 129°F	-40°F to 118°F
WTZ8-6L-U-XX-RAFL	-4°F to 122°F	-4°F to 117°F
WTZ8-8L-U-XX-RAFL	-40°F to 129°F	-40°F to 115°F
WTZ8-10L-U-XX-RAFL	-4°F to 127°F	-4°F to 115°F
WTZ8-12L-U-XX-RAFL	-40°F to 124°F	-40°F to 120°F
WTZ8-14L-U-XX-RAFL	-4°F to 125°F	-4°F to 111°F
WTZ8-16L-U-XX-RAFL	-40°F to 122°F	-40°F to 110°F
WTZ8-18L-U-XX-RAFL	-40°F to 145°F	-40°F to 133°F
WTZ8-24L-U-XX-RAFL	-40°F to 122°F	-40°F to 107°F

¹CT Cold Temp Start Driver (-40°F) Available for (-4°F) standard products

SPECIFICATIONS

CONSTRUCTION

Injection molded one piece 5VA rated fiberglass body with chemical resistant finish for rigidity, durability and prolonged life in rough environments. F1 weatherability rated housing. Toolless removable gear tray for quick and easy access to electrical. Captive latches fastened to housing to safely secure lens to housing. Designed to achieve maximum performance and improved aesthetics.

ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 > 100,000hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25C ambient. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (10% - 100%) with optional 347V - 480Vac step down transformer. Optional emergency battery backups and generator transfer device available to meet critical life safety lighting requirements. Fixture max ambient reduced for emergency battery backup and step down options.

INSTALLATION

Designed for a variety of mounting applications including surface, pendant, 45 degree wall mount and suspended. Pre-drilled holes on each side of fixture for electrical access and wiring. Hole plugged from factory with rubber IP rated seal. 1/2" HUBs available for threaded power entry from both ends. Toolless hinged removable gear tray for quick and easy access to electrical.

WARRANTY

5 Year Warranty Standard; 10 Year Warranty Optional (Terms and Conditions apply).

OPTICS

Robust injection molded and impact resistant PMMA lens options for durability and LED glare reduction. Standard Ribbed Acrylic Frosted (RAFL), with optional Smooth Acrylic Frosted (SAFL), Smooth Acrylic Clear (SACL), Smooth Polycarbonate Frosted (SPFL) and Smooth Polycarbonate Clear (SPCL) lens options. Field removeable lens for easy access to LED boards, drivers and maintenance. IK10 rated with SAFL, SACL, SPFL, & SPCL Lenses. IK07 with RAFL lens.

THERMAL

Ambient temperature range -40°F up to 131°F (-40°C to 55°C) on select models with cold start ambient temperature options. Fixture to be mounted at a minimum plenum height of 18" for suspended mounting. Reduced maximum ambient for surface mounting. Reference Ambient Temperature Ratings by lumen package in the Ambient Temperature Range table for more detail.

CONTROLS

Factory installed Advanced & Basic integral occupancy sensor options available. Fully control light levels for both occupied and unoccupied areas with user selectable bi-level dimming options to meet critical life safety lighting requirements. Advanced controls available for grouping capabilities and BAS operation. See controls pg for more detail (pg. 5).

CERTIFICATIONS

ETL Listed to US and Canadian safety standards. Suitable for Wet Locations. American Recovery and Reinvestment Act Funding Compliant. BAA Compliant. IP65, IP66, IP67 Rated. NSF Listed. 1500 PSI Hosedown Rated. DLC (DesignLights Consortium) Premium Qualified. Please refer to the DLC Qualified Products List at www.Designlights.org/QPL to confirm specific product qualifications.

NARROW LINEAR VAPOR TIGHT

CONTROLS OPTIONS

BASIC

WLOS

Standard on/off wet location rated PIR occupancy sensor. Comes with 360 degree lens. Sensor mounted off end of fixture.

WLOSPC

Standard on/off wet location rated PIR occupancy sensor with photocell control. When installed, fixture will not activate unless 1. motion is detected and 2. light levels are below the preset level. When activated, fixture will turn on to 100% light output and will only shut off when one of the two levels listed above are met. If no motion is detected and light levels fall below preset level the fixture remains off. Sensor mounted off end of fixture.

USBD

User Selectable Bi-Level Dimming wet location rated PIR occupancy sensor. Allows the end user to manually select the unoccupied dimming level. Once motion is detected, the fixture will return to 100% light output. Sensor mounted off end of fixture.

BDxx

Factory set Bi-Level Dimming wet location rated PIR occupancy sensor. Sensor is set to dim level, as indicated in the "xx" portion of the part number, when the area is unoccupied. Example: BD20 sets the fixture to dim down to 20% lumen output when the area is unoccupied. Once motion is detected, the fixture will return to 100% light output. Sensor mounted off end of fixture.

BDxxPC

Factory set Bi-Level Dimming wet location rated PIR occupancy sensor with photocell. Sensor is set to dim level as indicated in the "xx" portion of the part number, when the area is unoccupied and will not return to 100% light output unless 1. motion is detected and 2. the light level is below the preset level. Example: BD20PC sets the fixture to dim down to 20% lumen output when the area is unoccupied and will not return to 100% light output unless the above conditions are met for both motion light level readings. Sensor mounted off end of fixture.

MWS

Standard on/off wet location rated microwave occupancy sensor. Sensor installed on LED gear tray behind lens.

MWUSBD

User Selectable Bi-Level Dimming wet location rated microwave occupancy sensor. Allows the end user to manually select the unoccupied dimming level. Once motion is detected, the fixture will return to 100% light output. Requires use of MW/RC programming tool; one needed per project. Sensor installed on LED gear tray behind lens.

ADVANCED

Philips ESMC/HB

EasySense wet location rated PIR occupancy sensor combines occupancy sensing, daylight harvesting and institutional tuning in one solution. Each device allows you to turn on/off occupancy and/or daylight harvesting functions as well as set the full light output, background light level, occupancy prolong time, occupancy grace fading time and occupancy time out/hold time. Easily Controlled via Mobile Phone with Philips MasterConnect Bluetooth App. Sensor mounted off end of fixture.

Legrand FSP-311B

FSP-311 wet location rated PIR occupancy sensor offers fully adjustable high and low dimmed light levels with optional photocell. Hold off setpoint with automatic calibration option. Adjustable time delay and cut off delay. Sensor adjustable programming via iOS or Android 'Sensor Configuration' App. Sensor mounted off end of fixture.

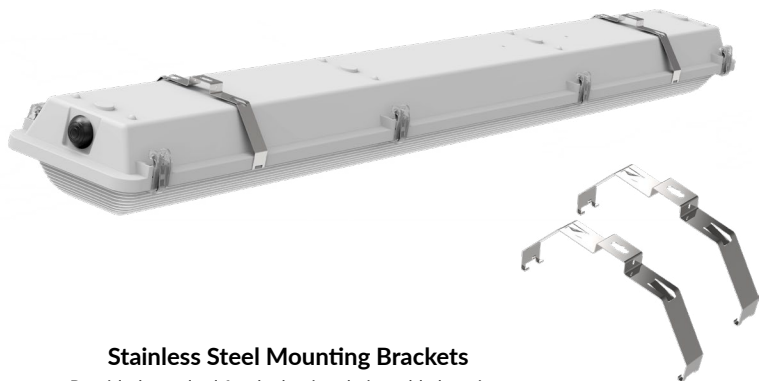
Enlighted 5S/HRW/CL

Enlighted wet location rated PIR occupancy sensor bundled system with sensor. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting attributes plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Inquire for Enlighted system. Inquire with factory for customer supplied factory installed components. Contact factory for more information. Sensor mounted off end of fixture.

Enlighted 5S/HRW/IOT

Enlighted wet location rated PIR occupancy sensor bundled system with sensor. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting attributes plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Inquire for Enlighted system. Inquire with factory for customer supplied factory installed components. Contact factory for more information. Sensor mounted off end of fixture.

MOUNTING OPTIONS



Stainless Steel Mounting Brackets

Provided standard for dual point chain, cable hanging, and surface mount.



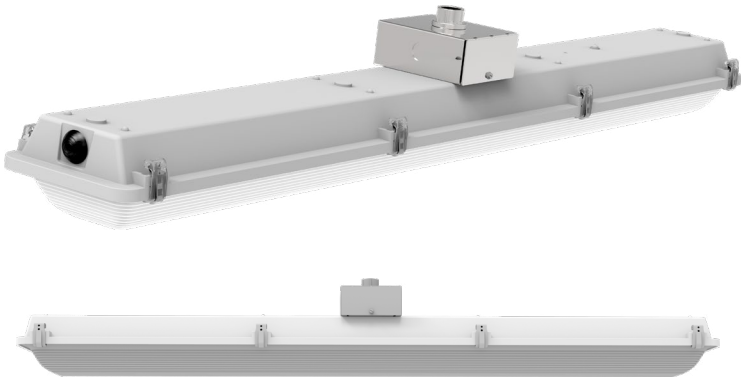
AB45DEG

45° Stainless Steel Angled Wall Mount Bracket. Two standard per set. One set required per fixture.



ACxY

Adjustable Y-Toggle aircraft cable set (x = 5' or 10')



FMB

Fixture Mounting Box utilized when pendant mounting. Must be used with HUB 3/4. One needed per 4ft section.



HUB 3/4

HUB 3/4 - 3/4" Conduit Hub for Single Pendant Mounting. Requires use of FMB

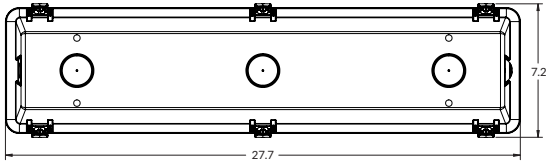
WTZ

NARROW LINEAR VAPOR TIGHT

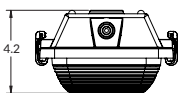
LINE DRAWINGS

WTZ2:

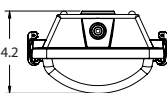
Top View



End View

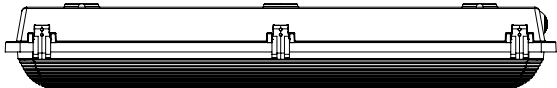


LENS TYPE:
RAFL



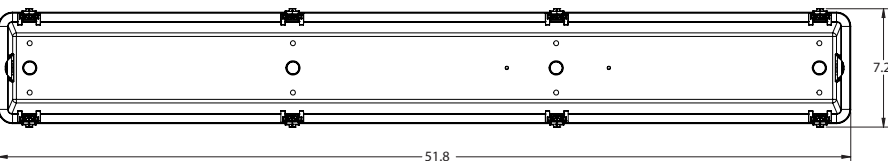
LENS TYPE:
SAFL
SACL
SPFL
SPCL

Side View

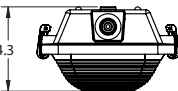


WTZ4

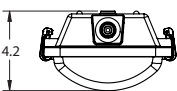
Top View



End View



LENS TYPE:
RAFL



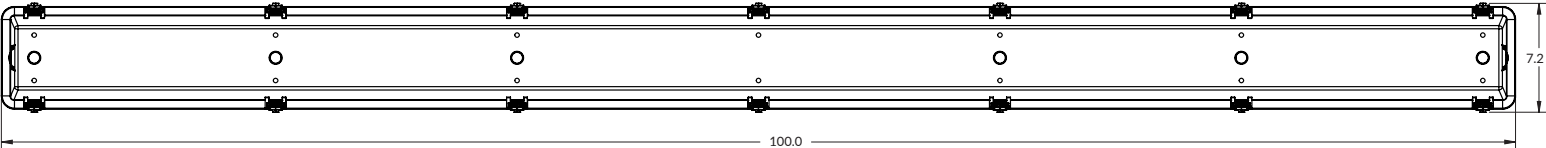
LENS TYPE:
SAFL
SACL
SPFL
SPCL

Side View

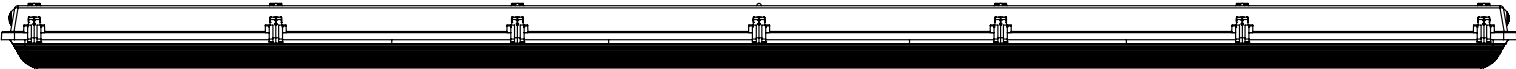


WTZ8

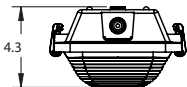
Top View



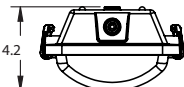
Side View



End View



LENS TYPE:
RAFL



LENS TYPE:
SAFL
SACL
SPFL
SPCL

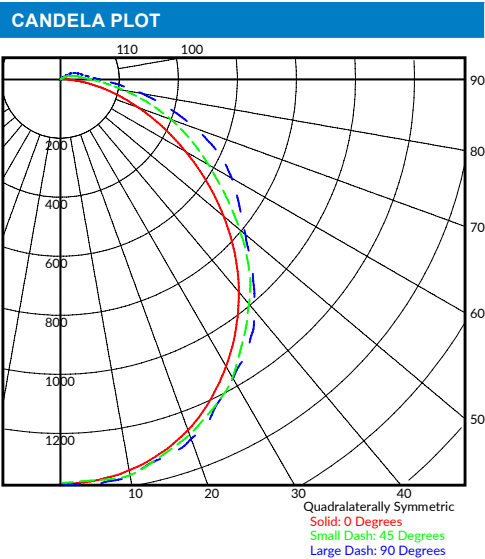
WTZ

NARROW LINEAR VAPOR TIGHT

PHOTOMETRIC DATA

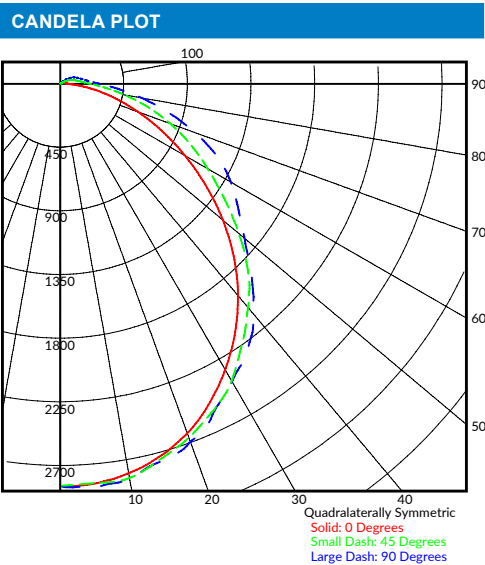
LUMINAIRE DATA	
Part Number	WTZ2-4L-U-50-RAFL
Description	2ft Amazon Vapor Tight, 4,000 Lumens, Ribbed Frosted Acrylic Lens
Fixture Lumens (lm)	4,172 lm
Wattage (W)	80 W
Efficacy (lm/W)	164 lm/W
Mounting	Suspended
Spacing Criteria	0° = 1.30, 90° = 1.29

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	1,744	42%
0° - 60°	3,043	73%
0° - 90°	4,010	96%
90° - 180°	162	4%
0° - 180°	4,172	100%



LUMINAIRE DATA	
Part Number	WTZ4-8L-U-50-RAFL
Description	4ft Amazon Vapor Tight, 8,000 Lumens, Ribbed Frosted Acrylic Lens
Fixture Lumens (lm)	8,673 lm
Wattage (W)	80 W
Efficacy (lm/W)	152 lm/W
Mounting	Suspended
Spacing Criteria	0° = 1.29, 90° = 0.77

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	3,626	42%
0° - 60°	6,327	73%
0° - 90°	8,338	96%
90° - 180°	336	4%
0° - 180°	8,673	100%



LUMINAIRE DATA	
Part Number	WTZ8-16L-U-50-RAFL
Description	8ft Amazon Vapor Tight, 16,000 Lumens, Ribbed Frosted Acrylic Lens
Fixture Lumens (lm)	16,371 lm
Wattage (W)	80 W
Efficacy (lm/W)	159 lm/W
Mounting	Suspended
Spacing Criteria	0° = 1.26, 90° = 1.26

ZONAL LUMEN SUMMARY		
Zone	Lumens (lm)	% Fixture
0° - 40°	6,845	42%
0° - 60°	11,944	73%
0° - 90°	15,737	96%
90° - 180°	634	4%
0° - 180°	16,371	100%

