

FEATURES & SPECIFICATIONS

INTENDED USE — The GRAD is a linear suspended product for commercial indoor, education and healthcare applications.

CONSTRUCTION — Nominal 8-1/4" x 1-3/4" rectangular housing is formed from cold-rolled steel. End caps are mechanically attached with no exposed fasteners.

Color for housing and end caps is white or painted aluminum. Consult factory for custom colors.

OPTICS — Four LED lumen packages and three available color temperature options (3000K, 3500K and 4000K) — all within 2.5 MacAdam ellipses.

ELECTRICAL — LED light engine — consisting of modular LED boards and dimming driver — is rated for >60,000 hours (L80) at 25° C ambient temperature. Specify 120V or 277V. Pre-wired with 16AWG fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included. MIN1 option provides "natural dimming" with smooth, continuous and flicker-free dimming. Syncing for controls: 2mA max. THD: < 20%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. Controls and system networking options. For wired networking via Cat-5e, choose an integrated nLight® module. For daylight dimming and/or dual technology occupancy detection, see Page 3 for integrated sensor options. One control module per 4' section or 40' maximum row.

INSTALLATION — 4' and 8' lengths in a single section for exact suspension spacing of 4' and 8'. For total luminaire length, add 1/16" for each flat end cap. Using internal joiners, 4' and 8' sections can be joined to form longer rows.

Ambient operating temperature between 0° C and 25° C.

LISTINGS — CSA/CUS listed. LM-79 tested. Individual sections meet FCC Part 15 requirements. Lighting Facts partner. CSA tested to UL 1598 standards.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Catalog
Number

Notes

Type

GRAD LINEAR



I/D, Direct



WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C. Specifications subject to change without notice.

ORDERING INFORMATION

Lead times will vary depending on options selected.
Consult with your sales representative.

Example: GRD LLP 16FT MSL4 80CRI 30K ID1000LMF 80/20 MIN1 ZT 120 SCT F1/24A C110

Luminaire	Linear length plan	Total run length	Maximum section length	LED color rendering	LED color temperature	Indirect/direct LED output	Indirect/direct intensity ratio
GRD	LLP Linear longest possible LSL Linear same length	___ FT Indicate luminaire row length in 4' increments. Ex: 12FT	MSL4 4' section(s) MSL8 8' section(s)	80CRI 80+ CRI	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	ID800LMF 800 nominal lumens per foot ID1000LMF 1000 nominal lumens per foot ID1300LMF 1300 nominal lumens per foot ID1500LMF 1500 nominal lumens per foot	80/20 Std. 80% up/ 20% down 20/80 20% up/ 80% down 0/100 0% up/ 100% down

Minimum dimming level	Control input	Voltage	Wiring option	Emergency options ^a
MIN1 Constant current, dimming to 1%	ZT 0-10V ²	120 120V	SCT Single circuit	(blank) None
MIN10 ¹ Constant current, dimming to 10%	NLIGHT nLight enabled ³	277 277V		1EC (1) Emergency circuit module
	ECO Lutron Ecosystem ⁴			2EC (2) Emergency circuit modules
				___ EC ___ Emergency circuit modules
				___E10WLCP ___10 Watt battery pack, constant power with self diagnostics. CEC Certified

Primary Sensor ⁵	Secondary Sensor ⁵	Mounting type /	Overall suspension
(blank) No factory-installed, integrated sensor	(blank) No factory-installed, integrated sensor	F1/ T-bar ceiling (universal mounting bracket)	12F 12" fixed
PDT_ Dual technology occupancy sensor.	SPDT_ Dual technology occupancy sensor.		18F 18" fixed
PIR & microphonics sensor	PIR & microphonics sensor	F1A/ T-bar ceiling (UMB with integrated J-box)	24F 24" fixed
ADC_ Daylight Dimming Sensor	SADC_ Daylight Dimming Sensor		24A 24" adjustable
APD_ Dual technology occupancy sensor and daylight dimming sensor	SAPD_ Dual technology occupancy sensor and daylight dimming sensor	F2/ Hard ceiling (horizontal J-box)	24A 24" adjustable
			36A 36" adjustable
			48A 48" adjustable

Color	Fusing	Territory compliance	Cover	Canopy	Junction box	Slope
C110 Painted aluminum (low gloss)	(blank) None	(blank) None	(blank) None	(blank) None	(blank) None	(blank) None
C210 White white (fine textured)	GLR Fast blow	CSA ⁷ Manufactured to Canadian standards	DU Dust cover	MCS Matching canopy at support for aesthetics	OJB Offset J-box at feed	SLP Sloped ceiling
C202 ⁶ Black (fine textured)	GMF Slow blow			MCSJ Matching canopy for J-box mounting at non-power feed support locations		
C099 Custom color				BLK ⁶ Black cord, cord manager and canopy		

Notes

- 1 Not available with NLIGHT or Sensors.
- 2 0-10V will use linear dimming curve.
- 3 Will use logarithmic dimming curve.
- 4 Only available with MIN1

5 Only available with ZT or NLIGHT.

6 Will use white cord and canopy unless BLK canopy option is selected.

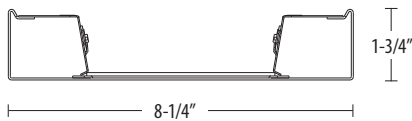
7 When chosen with EC entire section must be EC. EX: MSL8 section would need to be 2EC for entire section.

8 Separate feed required.

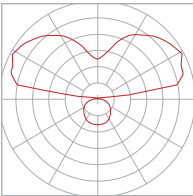
GRAD LINEAR I/D or Direct | Suspended

DIMENSIONS

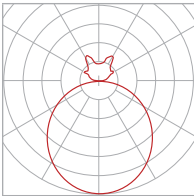
All dimensions are inches (centimeters) unless otherwise specified.



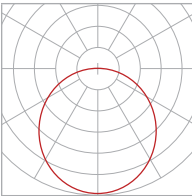
PHOTOMETRICS



ID800LMF 80/20 80CRI 35K
137 lm/W
3401 delivered lumens per 4' section



ID800LMF 20/80 80CRI 35K
105 lm/W
2621 delivered lumens per 4' section



ID800LMF 0/100 80CRI 35K
94 lm/W
2335 delivered lumens per 4' section

Fixture Performance

	3000K				3500K				4000K			
	800LMF	1000LMF	1300LMF	1500LMF	800LMF	1000LMF	1300LMF	1500LMF	800LMF	1000LMF	1300LMF	1500LMF
Lumen Output	3303	4033	4843	5841	3401	4153	4987	6015	3456	4220	5067	6111
Input Watts	25	32	40	51	25	32	40	51	25	32	40	51
Lumens/Watt	133	125	121	115	137	129	124	119	139	131	126	121

*AT 80/20 Indirect/Direct Intensity Ratio

How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine the delivered lumens in emergency mode

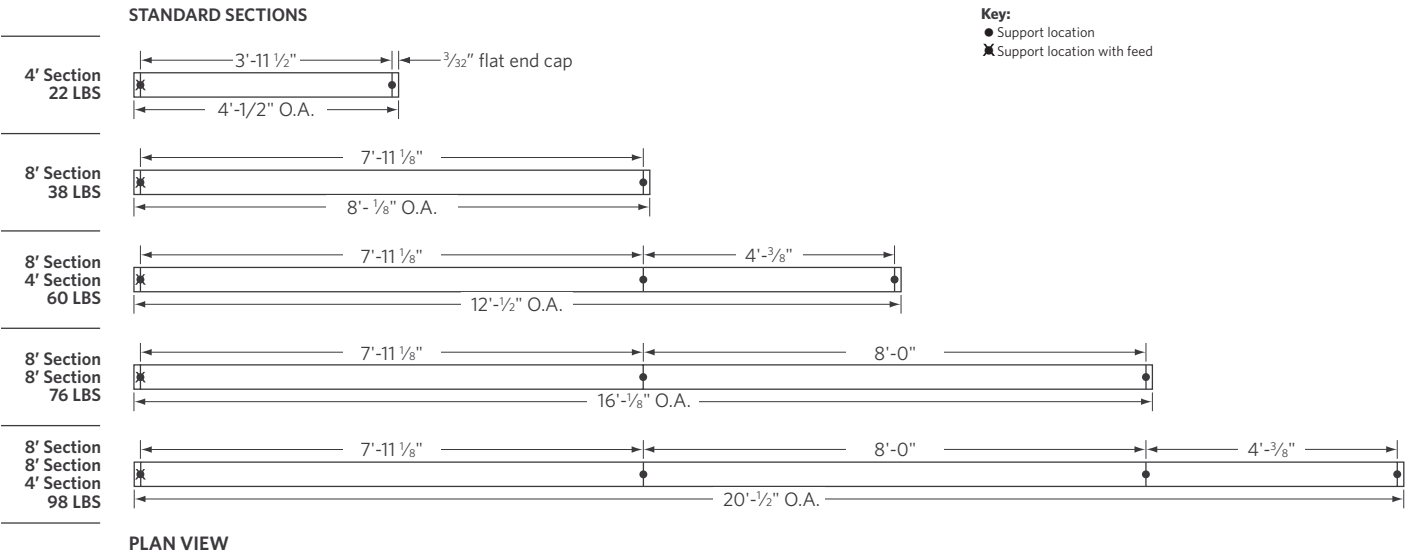
Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

Weights and Support Spacing

Suspension spacing equals section length. Default location shown. Consult factory for stem mounting suspension spacing and alternate locations.



Linear Plan:

Lithonia Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LSL- Linear Same Length:

In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

LCB- Linear Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 20 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution, should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segment and 1, 4 FT segment at the end of the run.

INTEGRATED SENSOR OPTIONS

Dimming Driver	Integrated Sensor	Daylight Dimming	Daylight Dimming and/or Occupancy Detection	nLight Wired Networking	nLight Wireless Networking	Link to Spec Sheet
NLIGHT	ADC	X		X		https://www.acuitybrands.com/products/detail/147312/nLight/nES-ADCX/Dimming-Photocell-Embedded-Low-Volt/-/media/products/nLight/147312/document/nES_ADCX-Form_.pdf.pdf
NLIGHT	PDT		X	X		https://www.acuitybrands.com/products/detail/147187/nLight/nES-7-Family/Micro-360176-Embedded-Low-Volt-PIR/-/media/products/nLight/147187/document/nES_7-Form_.pdf.pdf
NLIGHT	APD	X	X	X		https://www.acuitybrands.com/products/detail/147187/nLight/nES-7-Family/Micro-360176-Embedded-Low-Volt-PIR/-/media/products/nLight/147187/document/nES_7-Form_.pdf.pdf
ZT	ADC	X				https://www.acuitybrands.com/products/detail/147312/nLight/nES-ADCX/Dimming-Photocell-Embedded-Low-Volt/-/media/products/nLight/147312/document/nES_ADCX-Form_.pdf.pdf
ZT	PDT		X			https://www.acuitybrands.com/products/detail/147187/nLight/nES-7-Family/Micro-360176-Embedded-Low-Volt-PIR/-/media/products/nLight/147187/document/nES_7-Form_.pdf.pdf
ZT	APD	X	X			https://www.acuitybrands.com/products/detail/147187/nLight/nES-7-Family/Micro-360176-Embedded-Low-Volt-PIR/-/media/products/nLight/147187/document/nES_7-Form_.pdf.pdf



Daylight harvesting deactivated by default and field programmed per sequence of operations for PDT sensor options.

Luminaires specified with nLight system networking ship with one RJ-45 connector integrated into the luminaire, 10’ of Cat-5e cable and a splitter to control the entire luminaire row (depending on wattage/voltage limitations). For multiple zones, please contact TechSupport@PeerlessLighting.com.

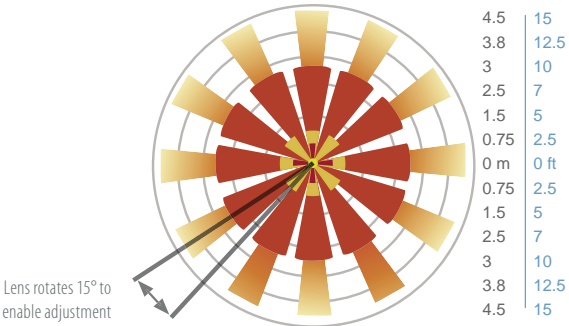
OCCUPANCY DETECTION COVERAGE

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor’s field of view than when walking directly at sensor.

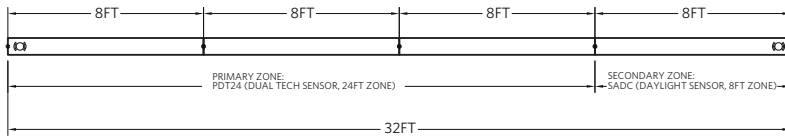
Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.



INTEGRATED SENSOR LAYOUT

CORRECT:

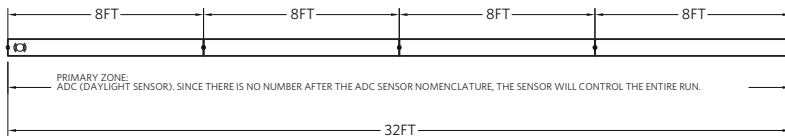
32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 24FT AND SECONDARY ZONE 8FT -- PDT24 SADC8



Notes:

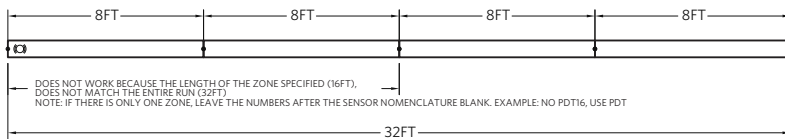
- Only one sensor per zone
- At the most, the entire run can only have 2 sensors (thus 2 sensors zones at the most)
- Sensor zone can not split fixture sections
- No overlapping zones

32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- ADC

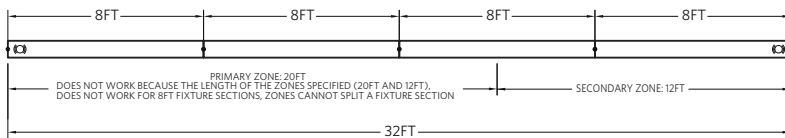


INCORRECT:

32FT MSL8 RUN WITH 1 SENSOR ALL ONE ZONE -- PDT16



32FT MSL8 RUN WITH 2 SENSORS WITH PRIMARY ZONE 20FT AND SECONDARY ZONE 12FT -- PDT20 SADC12



Most Common Mounting Types and Options

Options available for this specific luminaire are checked in the boxes below.

Mounting Type

- F1/**
For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.
- F2/**
For use with recessed or surface mount horizontal J-box applications.
- F1A/**
For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications. Comes complete with vertical J-box with built-in wire way. See also CP.

Mounting Options

- MCS**
Matching canopy at support for aesthetics.
- MCSJ**
Matching canopy for J-box mounting at non-power feed support locations.
- OJB**
Offset J-box at feed.
- SLP OJB**
Sloped ceiling couplers and offset J-box option at feed.

For more detailed mounting drawings and information, see PeerlessLighting.com/MountingOptions

☒ **F1/**

Power Feed

Support

☒ **F1/MCS**

Power Feed

Support

☒ **F1A/**

Power Feed

Support

☒ **F1A/MCS**

Power Feed

Support

☒ **F2/**

Power Feed

Support

☒ **F2/MCS**

Power Feed

Support

☒ **F2/MCSJ**

Power Feed

Support

☒ **F2/OJB**

Power Feed

Support

☒ **F2/SLP OJB**

Power Feed

Support

FEATURES & SPECIFICATIONS

INTENDED USE — The STL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced surface-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Impact modified linear-faceted refractor with light diffusing film. Refractor attaches to die cast ends by simple hook and pin design with controlled tension provided by sonically welded end plate, providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: All metal parts are post-painted in white polyester powder coat for smooth, finished edges and uniform light distribution. Natural aluminum finish available on end caps (see Options).

Injection-molded plastic light traps prevent light leaks between shielding and end plates and centers diffuser on channel.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to vertical and horizontal work surfaces, rendering interior space, objects and occupants in a more balanced luminous environment. Light distribution is carefully controlled at high angles, providing just enough luminous flux to create the volumetric effect.

Angled mounting surface combined with crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. STL is rated to deliver L90 performance at 60,000 hours. The LEDs have a CRI of 82.

elDoLED driver options deliver choice of dimming range and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional nLight® embedded controls continuously monitor system performance, allow for constant lumen management / compensation function, facilitate simple “plug-and-play” network and controls upgrading via Cat-5 cable. Ballast disconnect provided where required to comply with US and Canadian codes.

LISTINGS — CSA certified to meet U.S. and Canadian standards.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Patents pending. Damp listed.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Catalog Number
Notes
Type



Surface Volumetric

STL4



4'
LED



INDUSTRY RECOGNITION/AWARDS



2012 BEST IN CLASS



2011 ARCHITECTURAL SSL PRODUCT INNOVATION AWARD

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

STL4 LED Surface Volumetric



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: STL4 20L EZ1 LP840

STL4							
Series	Lumens ¹	Voltage	Driver	Color temperature	Control	Options	Finish ⁶
STL4 4' surface volumetric LED	20L	(blank) MVOLT (120-277)	EZ1 eldoLED dims to 1%, 0-10V	LP830 3000K	(blank) No controls	EL7L 700 nominal lumen battery pack (Noncompliant with CA T20)	(blank) White
	30L			LP835 3500K	N80 nLight with 80% (L80) lumen management		DNA Natural aluminum
	40L	347 347V ²	EZB eldoLED dims to dark, 0-10V	LP840 4000K	N80EMG nLight with 80% (L80) lumen management for use with generator supply EM power		MB Matte Black
	48L		SLD Step-level dimming ³	LP850 5000K	N100 nLight without lumen management	EL14L 1400 nominal lumen battery pack (Noncompliant with CA T20)	
	60L		EXA1 Dims to 1%, XPoint wireless enabled ^{3,4}		N100EMG nLight without lumen management for use with generator supply EM power	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS	
			EXAB Dims to dark, XPoint wireless enabled ^{3,4}		LSXRHL Sensor Switch® fixture mount sensor with High/Low occupancy operation ⁵	SC1 Surface conduit end cap provisions for one endcap	
			GZ10 Dims to 10% (0-10V dimming) ⁷		LSXR10 Sensor Switch® fixture mount sensor with On/Off occupancy operation	SC2 Surface conduit end cap provisions for both end caps	

Accessories: Order as separate catalog number.						
CI Code	Model	Kit Type	Voltage	Dimming	Length	Ceiling Type*
*211L5F	STCR	Continuous Row Connector	NA	NA	NA	NA
*208XVT	STACG36 F1	Adjustable aircraft cable gripper suspension kit	NA	NA	36 inch	F1
*208XVY	STACG36 F2					F2
*208XW2	STACG72 F1				72 inch	F1
*208XVW	STACG72 F2					F2
*208XW7	STACGF36 F1	Adjustable aircraft cable gripper w/power feed	120-277V	Non-Dimming	36 inch	F1
*208XVV	STACGF36 F2					F2
*208XW3	STACGF72 F1				72 inch	F1
*208XW0	STACGF72 F2					F2
*2594WC	STACGFD36 F1		347V	0-10V Dimming	36 inch	F1
*2594WK	STACGFD36 F2					F2
*2594WP	STACGFD72 F1				72 inch	F1
*2594WV	STACGFD72 F2					F2
*2594X0	STACG347FD36 F1				36 inch	F1
*2594YJ	STACG347FD36 F2					F2
*2594YK	STACG347FD72 F1				72 inch	F1
*2594YN	STACG347FD72 F2					F2
*210AC1	STACGE36 F1	Adjustable aircraft cable gripper w/emergency power feed	120-277V	Non-Dimming	36 inch	F1
*210CN1	STACGE36 F2					F2
*210AAV	STACGE72 F1				72 inch	F1
*210CMP	STACGE72 F2					F2

Notes

- 1 Approximate lumen output.
- 2 Not available with EL battery packs or SLD driver.
- 3 Not available with controls options
- 4 Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
- 5 Requires SC1 option. Dims to approximately 10% light output when unoccupied. See sensor details on next page.
- 6 For additional paint finishes refer to: [Architectural Colors](#).
- 7 GZ10 drivers not available with any Controls or sensor options.

*Reference mounting data for ceiling type

STL4 LED Surface Volumetric

Performance Data			
Lumen Package	Input Watts ¹	Lumens	LPW
30L LP830	26.7	2904	108.8
30L LP835	26.7	3049	114.2
30L LP840	26.7	3195	119.7
30L LP850	26.7	3282	122.9
40L LP830	34.9	3688	105.7
40L LP835	34.9	3834	109.9
40L LP840	34.9	3979	114.0
40L LP850	34.9	4124	118.2
48L LP830	45.2	4615	102.1
48L LP835	45.2	4850	107.3
48L LP840	45.2	5088	112.6
48L LP850	45.2	5184	114.7
60L LP830	53.2	5294	99.5
60L LP835	53.2	5559	104.5
60L LP840	53.2	5811	109.2
60L LP850	53.2	5954	111.9

How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

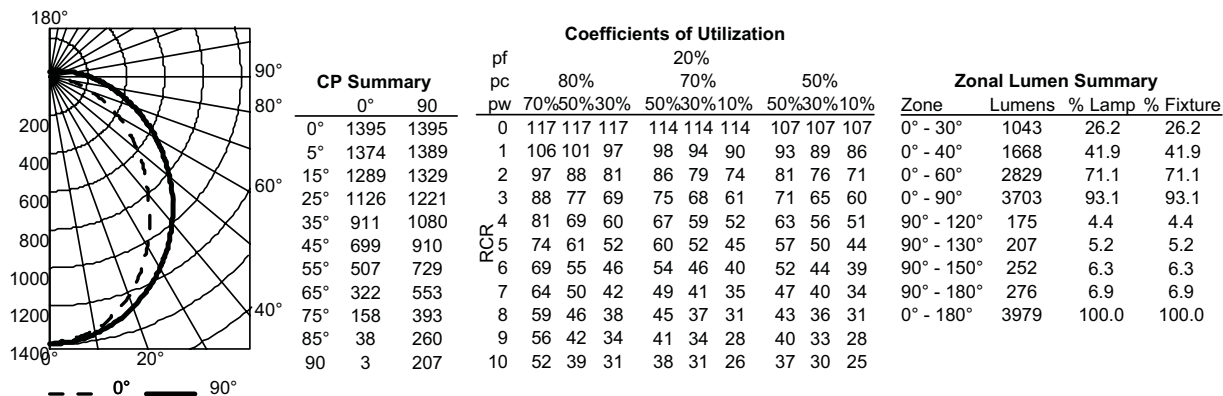


Sensor Switch LSXR Sensor

Lens type:	10 - Low Mount 360°
Dimming:	HL - High/Low Occupancy operation
Min Dim Level:	3V - approximately 10% light output when unoccupied
Time Delay:	5M - 5 minutes

PHOTOMETRICS

STL4 40L E21 LP840, 3979 delivered lumens, test no. LTL25690, tested in accordance to IESNA LM-79.



MOUNTING DATA

Suspension Kit Ceiling Types: F1 for use with most T-bar and screw slot grid ceiling applications. Designed for on-grid and off-grid installations.

F2 for use with recessed or surface-mount horizontal J-box applications.

For unit or row installation; surface or suspend mounting.

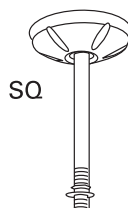
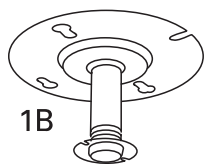
Individual installation — One double-stem or two single-stem hangers required.

For aircraft cable, one STACG_, STACGF_, or STACGE_ required for each suspension point.

Row installation — Order one (1) STCR accessory per fixture for continuous row applications. Not required for last fixture in row. One hanger per fixture plus one per row required.

Note: 2' configurations with emergency option cannot be stem mounted.

See ACCESSORIES below for hanging devices.

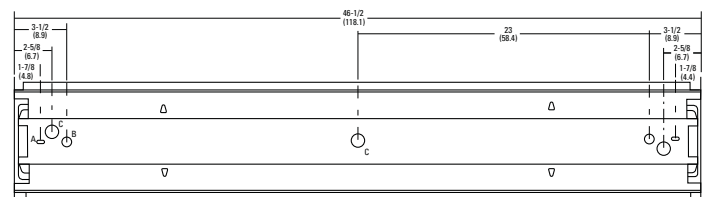


DIMENSIONS

All dimensions are inches (centimeters) unless otherwise noted.

Specifications

Length:	46-3/8 (117.8)	A = 1/4 x 1/2 (.635 x 1.27) Oval Hole
Width:	10-1/8 (25.7)	B = 11/16 (1.75) Dia. K.O.
Depth:	3-7/8 (9.8)	C = 7/8 (2.22) Dia. K.O.
Weight:	13LB	





Catalog Number
Notes
Type

Contractor Select™

FMML 13 FMML 7

Versi Lite™ LED Flush Mount

Available in 7" and 13" round, the LED Versi Lite Flush Mount offers an energy-efficient lighting solution for an array of indoor and outdoor residential and light commercial spaces. With a 50,000 hour maintenance-free life, the Versi Lite delivers reliability along with bright, high quality illumination. Ideal for use in closets, foyers, hallways, bedrooms, offices, utility work areas, stairways, and many other rooms in the house.

FEATURES:

- Available in 2 color temperatures; 3000K and 4000K
- Dimmable to 10% on most standard triac dimmers
- Wet location option



Catalog Number	UPC	Description	Replaces up to	Lumens	Input Watts	CCT	CRI	Voltage	Pallet qty.
FMML 13 830	888791432961	13" Versi Lite	2-75W Incandescent	1,900	28W	3000K	80	120V	120
FMML 13 840	888791432954	13" Versi Lite	2-75W Incandescent	2,000	28W	4000K	80	120V	120
FMML 7 830 M6	820476182860	7" Versi Lite	60W Incandescent	642	10W	3000K	80	120V	540
FMML 7 830 WL M6	820476780080	7" Versi Lite*	60W Incandescent	642	10W	3000K	80	120V	540
FMML 7 840 M6	753573647355	7" Versi Lite	60W Incandescent	642	10W	4000K	80	120V	540
FMML 7 840 WL M6	820476881145	7" Versi Lite*	60W Incandescent	642	10W	4000K	80	120V	540

More configurations are available. [Click here](#) or visit www.acuitybrands.com and search for FMML 13 & FMML 7

NOTES

*Wet Location.



Specifications

INTENDED USE:

Provides general illumination in commercial and residential applications. Ideal for use in closets, foyers, hallways, corridors, bedrooms, offices, utility work areas, outdoor covered areas, stairways and much more.

CONSTRUCTION:

This contemporary shaped fixture features a matte white acrylic diffuser on the round versions, a polycarbonate diffuser on the square versions, and a robust aluminum housing. Wet location models are equipped with protective gasketing.

OPTICS:

Produces the following lumens at 50,000 hours life (WH finish):

3000 K: 642 lumens (7")/1898 lumens (13")

4000 K: 660 lumens (7")/1985 lumens (13")

ELECTRICAL:

Fixture operates at 120 volts, 60 Hz. 7" Round standard input = 9.3 watts, 70 lumens per watt. 13" Round standard input = 28 watts, 71 lumens per watt. 7".

Works with most standard incandescent dimmers

LISTINGS:

All sizes are CSA certified for sale in the USA and Canada. Also certified for Damp Location. For wet Location, the WL OPTION must be added to model number. ENERGY STAR® certified. Round Versi U.S. Patent No. D691,763

WARRANTY:

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Dimensions

7"

Height: 1-3/4 (4.4)

Width: 7-1/4 (18.4)

Weight: 1.1lbs (.5 kg)

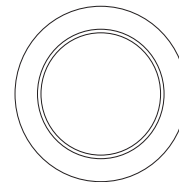


13"

Height: 2-1/2 (6.4)

Width: 13 (33.0)

Weight: 3.2lbs



All dimensions are inches (centimeters) unless otherwise indicated.

DATE	PROJECT	FIRM	TYPE
------	---------	------	------



Specification grade, surface mounted luminaire with drum style opal white acrylic diffuser. For use in indoor applications where a compact LED luminaire with soft, low-glare illumination is required.

FEATURES

- Dome Style Diffuser Optionally Available
- Damp Location Rated
- CRI 90+ Standard; R9>50
- 5 Year, 50,000 Hour Fixture Warranty
- 3000K & 4000K Color Temperatures Available
- Available with PoE

APPLICATIONS

Schools, Retail Stores, Office Areas, Corridors, Bathrooms, Utility Areas

CONSTRUCTION

Regressed Metal Housing Provides a Floating Appearance

OPTICS

Drum Style Opal White Acrylic Diffuser. Dome Style Available

WARRANTY

5 Year Limited Warranty (Covers Standard Components)

FINISH

Standard Powder-Coated White. Custom RAL Colors Available

FIXTURE RATINGS & CERTIFICATIONS

Union Made
ETL Listed

Made In The USA
Damp Location Rated



DRIVERS & SENSORS

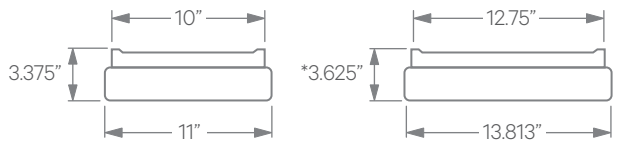
For Wiring Diagrams and
Sensor Information Click [Here](#)



ELECTRICAL

Integral Driver with 0-10V Dimming Standard. Several Driver Options Available

EXTRUSION DIMENSIONS



*Additional 0.25" added to height with Dome Lens option.

LED SYSTEM INFORMATION

	Nominal System Watts	Nominal Delivered Lumens
11" Fixture	17 W	1,278 lm
14" Fixture	22 W	1,704 lm

Based on a 3500K luminaire using one driver. Custom outputs available; specify below.

ORDERING



1 - FIXTURE ID

CRPL LED

2 - LENGTH

11 - 11 inches
14 - 14 inches

3 - COLOR TEMP

30 - 3000K/90 CRI
40 - 4000K/90 CRI
TW* - Tunable White
RGBW** - RGB+3000K
*Must use DMX or TW10 Driver
**Must use DMX Driver

4 - VOLTAGE

UNV - Universal
(120/277V)

5 - DRIVER

DB - Standard Dimming (0-10V)
DB1% - 1% Dimming (0-10V)
DB.1% - 0.1% Dimming (0-10V)
LTEA - Lutron 2-wire 1% Dimming (120V only)
LDE1 - Lutron Digital EcoSystem
LDE5 - 5 Series EcoSystem; 5% Dimming
PoE - Power over Ethernet. Consult Factory for Compatibility
DMX - For Color Tuning and RGBW (Remote)
TW10 - Dual Channel, 0-10V For Color Tuning (CCT and Intensity Control)

6 - FINISH

W - White (Standard)
CC - Custom Color
(provide RAL#)

7 - MOUNTING

SM - Surface Mount

8 - OTHER OPTIONS

EM 120V - Emergency Pack
EM 277V - Emergency Pack
EMCKT - Emergency Circuit
WH6 - 6ft Whips
Preinstalled
DO - Dome Style Lens

Project	
Notes	
Type	Date
Cat. No.	

LCP™ XE Series

LED Square Canopy Luminaire

DESCRIPTION

The Aleo LCP™ Series, LED Square Canopy Luminaire combines energy-efficiency, low-glare optics, and simple slim profile aesthetics to deliver enhanced performance to a range of surface-mount and recessed lighting applications. Mounting plate allows for quick and easy installation. Weather-proof compartment to withstand challenging environments.

APPLICATIONS

Covered walkways, drive-thrus, semi-covered outdoor aisles, corridors, building canopies, large stairwells. Covers recessed openings for surface mount application. Perfect for school campuses.

Specification Features

Construction

Simple, white finish powder-coated housing with advanced thermal management system ensures reliability and durability.

Optical System

Prismatic, square drop lens comes standard. Lens system improves safety and security by delivering high-efficiency illumination with low glare, comfortable illumination.

Certification

ETL Listed. DLC Premium

Warranty

7-year Limited Warranty. See warranty documentation for more information.

Electrical

Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features universal voltage (120-277V) for convenient installation.

Installation / Mounting

Luminaire comes standard with mounting plate for quick and easy installation. Can be mounted directly to surface junction box or surface mounted via keyhole slots on mounting plate. Covers existing 12" x 12" recessed square opening.

Controls / Dimming

Continuous dimming (0-10V) for 20W. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.



LCP Series

10W, 20W

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Over 110 LPW

Quick Ship

LCP-10/50K XE
LCP-20/50K XE



Intertek

Ordering Information

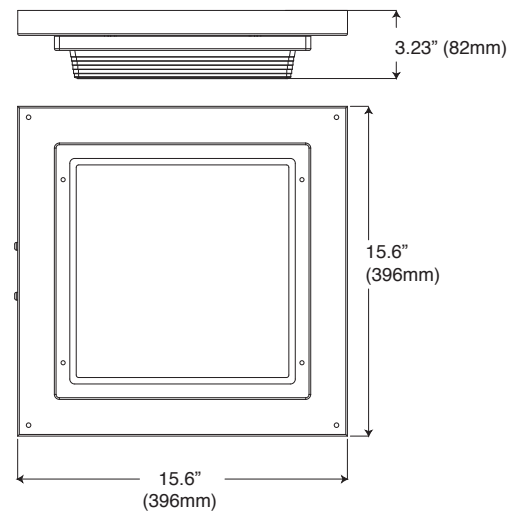
Example: LCP-10/50K XE

LCP	10	50K	[Blank]	[Options]	[Blank]
Series	Nominal Wattage	Color Temp	Input Voltage	Accessories	Controls
LCP	10 10W	40K* 4000K	Blank	PSMK	OSDL/HF
LED Square Canopy Luminaire	20 20W	50K 5000K	120V-277V	Back housing enclosure	Multi-Level High Frequency Occupancy Sensor
		* CCT 4000K is not Quick Ship			

Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 110 LPW (typ.)
CRI	70+, R9 > 0
Available CCT ¹	4000K, 5000K
Rated Life	50,000 hours
Power Factor	> 0.9
THD	< 20%
Operating Temp.	-20°C to 50°C

Product Dimensions

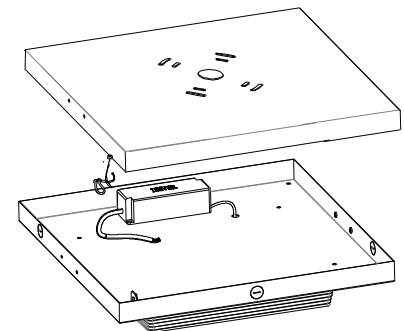


Performance Data

Catalog No.	Rated Wattage (W)	4000K		5000K	
		Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
LCP-10/xxK XE	9.7	1135.9	115.74	1186	121.38
LCP-20/xxK XE	18	2205.6	120.79	2360	131.11

LCP-PSMK-Housing

Back Housing Accessory for LCP (10W/20W), for Surface and Pendant Mount, White Finish



DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LCP-10/40K XE	PLQEJWK1A16D	4.3	Premium	Stairwell and Passageway Luminaires
LCP-10/50K XE	PLNLQ0RGAVGU	4.3	Premium	Stairwell and Passageway Luminaires
LCP-20/40K XE	PLYMMB5N8GGC	4.3	Premium	Stairwell and Passageway Luminaires
LCP-20/50K XE	PLK2XA2JYBQD	4.3	Premium	Stairwell and Passageway Luminaires



Specifications and Dimensions subject to change without notice.

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aleo™
LED LIGHTING

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www.aleoighting.com
13924 Bettencourt St.
Cerritos, CA 90703
Ph: 877-358-8825



JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS

FOR J-BOX INSTALLATION
5", 7", 12", 14" SQUARE

JSFSQ SERIES

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



PRODUCT DESCRIPTION

Sleek, ultra-low profile energy efficient LED surface mount downlights in multiple sizes from 5" to 14" • Provides economical installation by mounting directly over standard and fire-rated junction boxes • Optional finish trims and shrouds available for custom, designer look similar to standard recessed downlights • Provides general illumination in residential and commercial applications including multi-family and hospitality • Ideal for use in corridors, living spaces, closets, hallways, pantries, stairways, outdoor covered areas and much more.

PRODUCT SPECIFICATIONS

Construction Shallow, less than 1", solid square housing with white finish • Non conductive fixture for shower light applications • Optional, field installable finish trims available for 5" and 7" versions to change the exterior finish of fixture • Optional, field installable decorative baffle and cone shrouds for 5" and 7" versions provide the aesthetic and source shielding similar to the experience of a fully recessed downlight.

Optics Light guide technology combined with diffusing lens conceals the LEDs from direct view and provides uniform lens luminance.

LED Light Engine LEDs mounted directly to heatsink designed to provide superior thermal management and ensure long life • 2700K, 3000K, 3500K or 4000K LED color temperature • LEDs binned for 4-step MacAdam ellipse color consistency • 90 CRI minimum.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • External driver on 5" and 7" models only • For a list of compatible dimmers, see [JUNOSLIMFORM-DIM](#).

Emergency Battery Option Available on fixture sizes 12" and larger • Battery factory assembled to fixture with integral test switch (EL option) • Drives LEDs for 90 minutes to meet Life Safety Code (NFPA-LSC), National Electrical Code (NEC), and UL requirements • Emergency battery not available in California due to Title 20 restrictions • EBX option provides back box without battery for consistent look when used in same space as fixtures with EL emergency option.

Life Rated for 50,000 hours at >70% lumen maintenance.

Labels ENERGY STAR® certified • Certified to the high efficacy requirements of California T24 JA8-2016 • CSA listed for US and Canada • Suitable for wet locations (covered ceilings).

Testing All reports are based on published industry procedures; actual performance may differ as a result of the end-user environment and applications. All values are design or typical values, measured under laboratory conditions at 25 °C.

Warranty 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

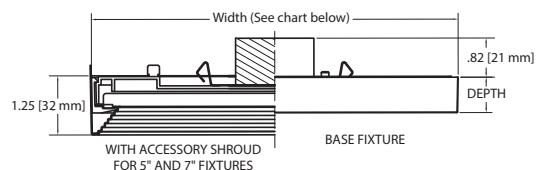
Specifications subject to change without notice.

INSTALLATION

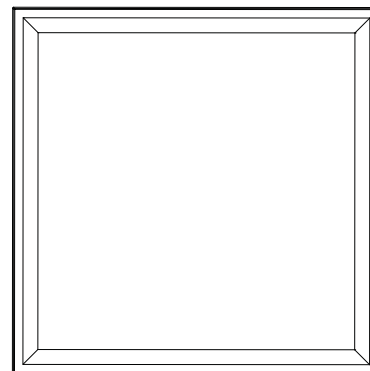
Junction Box Mounting Fixture provided with leads for direct wire connection in j-box • Installs directly to industry standard junction boxes • Compatible boxes include 4" metal or plastic octagonal standard and fire-rated junction boxes (3 1/2" junction box screw-hole spacing required for installation) • Minimum 2 1/8" deep junction box required • Quick mount bracket provides fast installation of fully assembled fixture to junction box • Suitable for ceiling mount • Suitable for use within closet storage spaces when installed per NEC requirements.



DIMENSIONS



External driver available on 5" and 7" models only.

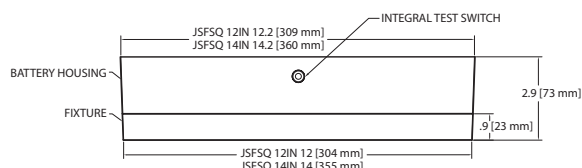


SQUARE SPECIFICATIONS

	Width	Depth
JSFSQ 5IN	5.25 (13.34)	0.75 (1.91)
JSFSQ 7IN	7.77 (19.74)	0.75 (1.91)
JSFSQ 12IN	12.07 (30.66)	0.9 (2.29)
JSFSQ 14IN	14.18 (36.02)	0.9 (2.29)

All dimensions are in inches (centimeters) unless otherwise indicated.

EMERGENCY BATTERY FOR 12" AND 14" ONLY



JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS

FOR J-BOX INSTALLATION
5", 7", 12", 14" SQUARE
JSFSQ SERIES

PERFORMANCE DATA

	JSFSQ 5IN		JSFSQ 7IN		JSFSQ 12IN		JSFSQ 14IN	
	120V	MVOLT	120V	MVOLT	120V	MVOLT	120V	MVOLT
Lumens	700	700	1000	1000	1300	1300	1800	1800
CRI	90CRI		90CRI		90CRI		90CRI	
CCT	27K, 30K, 35K, 40K		27K, 30K, 35K, 40K		27K, 30K, 35K, 40K		27K, 30K, 35K, 40K	
Voltage	120V	120V-277V	120V	120V-277V	120V	120V-277V	120V	120V-277V
Input Power	10W	10W	13W	13W	15W	15W	20W	20W
Input Current	110MA	50MA	150MA	60MA	180MA	80MA	240MA	110MA
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9		>0.9		>0.9		>0.9	

ORDERING INFORMATION

Example: JSFSQ 5IN 07LM 27K 90CRI 120 FRPC WH

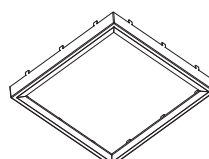
Series	Size/Lumens	Color Temperature	CRI	Voltage/Driver	Finish	Emergency Battery ^{1,2,3}
JSFSQ SlimForm Surface Mount Downlight - Square	5IN 07LM 5", 700 Lumens	27K 2700K	90CRI 90+ CRI	120 FRPC Dedicated 120V, Forward Reverse Phase Dimmign MVOLT ZT Universal Voltage 120V-277V, 0-10V Dimming	WH White	EL ³ Battery Back-up Option EBX Empty Back Box for Aesthetics
	7IN 10LM 7", 1000 Lumens	30K 3000K				
	12IN 13LM 12", 1300 Lumens	35K 3500K				
	14IN 18LM 14", 1800 Lumens	40K 4000K				

ACCESSORIES

TRIM – Optional, field installable finish trim rings available to change the exterior finish of fixture.

Example: JSFSQTRIM 5IN BL

Series	Size	Finish
JSFSQTRIM SlimForm Accessory Trim - Square	5IN 5 inches	BL Black
	7IN 7 inches	BZ Bronze
		SN Satin Nickel

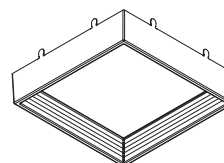


TRIM

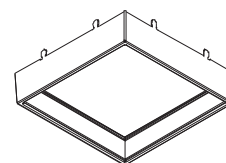
SHROUD – Optional, field installable decorative baffle and cone shrouds provides the aesthetic and source shielding similar to the experience of a fully recessed downlight.

Example: JSFSQSHROUD 5IN DB WWH

Series	Size	Shroud Style	Finish
JSFSQSHROUD SlimForm Accessory Shroud - Square	5IN 5 inches	DB Downlight Baffle	WWH White trim, white shroud
	7IN 7 inches	DC Downlight Cone	BWH ⁴ Black trim, white shroud
			HZWH Haze trim, white shroud
			WHZWH Wheat Haze trim, white shroud



BAFFLE SHROUD



CONE SHROUD

Note:

- Emergency battery available with 12IN and 14IN only.
- Emergency battery is only available with MVOLT ZT.
- Emergency battery option not available in California due to Title 20 restrictions.
- BWH only available with downlight baffle.

JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS

FOR J-BOX INSTALLATION
5", 7", 12", 14" SQUARE
JSFSQ SERIES

PHOTOMETRICS

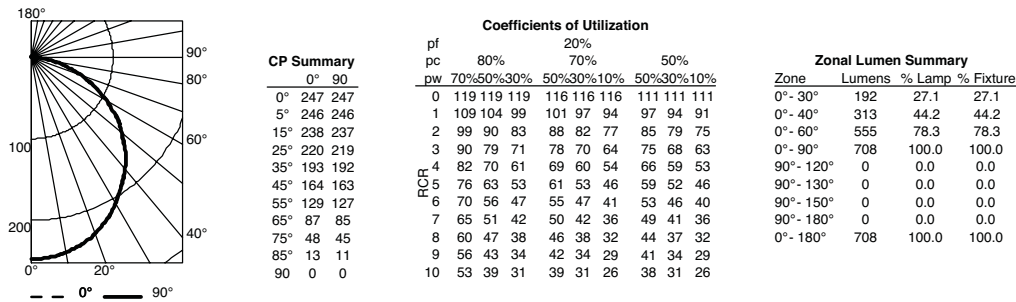
Distribution Curve

Distribution Data

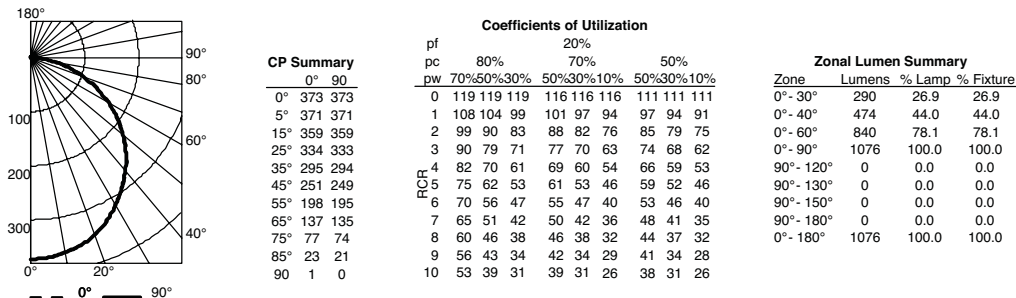
Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

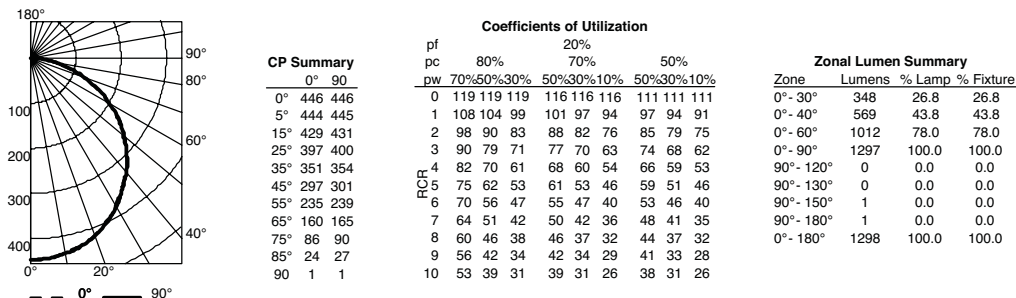
JSFSQ 5IN 27K, 2700K LEDs, input watts: 9.8, delivered lumens: 708, LM/W = 72.2, test no. ISF 33598, tested in accordance to IESNA LM-79.



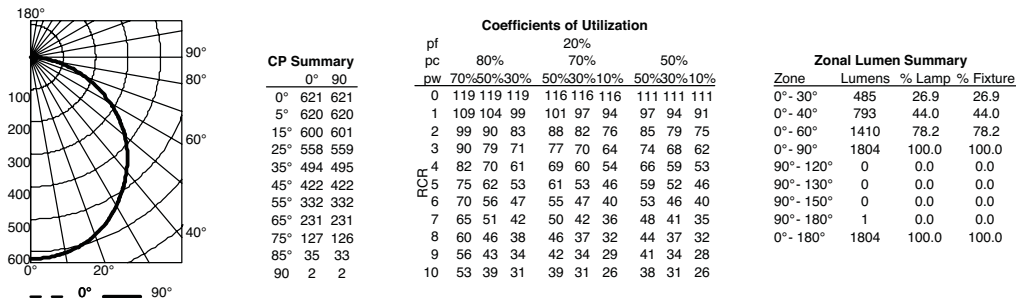
JSFSQ 7IN 27K, 2700K LEDs, input watts: 12.9, delivered lumens: 1076, LM/W = 83.4, test no. ISF 33601, tested in accordance to IESNA LM-79.



JSFSQ 12IN 27K, 2700K LEDs, input watts: 14.7, delivered lumens: 1298, LM/W = 88.3, test no. ISF 33664, tested in accordance to IESNA LM-79.



JSFSQ 14IN 27K, 2700K LEDs, input watts: 20.4, delivered lumens: 1804, LM/W = 88.4, test no. ISF 33662, tested in accordance to IESNA LM-79.



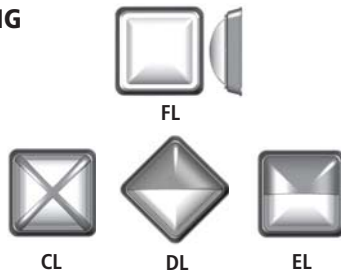
For 30K fixtures, use 1.02 multiplier; For 35K fixtures, use 1.03 multiplier; For 40K, use 1.07 multiplier.

MILLENNIUM™ SQUARE

MS15 SERIES – LOW PROFILE HOUSING

PRODUCT FEATURES:

- » Surface mount – ceiling (FL & CL only) or wall mount;
16"W×16"W×6"D (CL, EL, FL)
21"W×21"W×6"D (DL)
- » Peace of Mind Guarantee®
- » Dust and water protected to IP64 standards



PROJECT INFORMATION

Job Name _____
 Fixture Type _____
 Catalog Number _____
 Approved by _____

SPECIFICATIONS

BASEPLATE: Marine grade die-cast aluminum. Integral heat sinks. Baseplate flange interlocks and wraps around lens base producing maximum moisture deflection and resistance to prying. Baseplate provided with four-point mounting holes and one wireway hole. Standard matte black, dark bronze or matte white exterior TGIC polyester powder coat – 5-step pre-treatment. See Ordering Information for optional finishes.

REFLECTOR: Full reflector/wire cover – 92% reflectivity.

LENS: UV-stabilized, high impact resistant, virgin injection molded polycarbonate. High efficiency blondel fluted lens maximizes uniformity. Lens secured with four concealed captive Torx® with center pin fasteners. Exclusive water channeling lens design provides 360° ingress protection.

LENS BASE/EYELID/GRILLE: High impact resistant, injection molded matte black, dark bronze or matte white polycarbonate. Optional Light Gray, Silver, Forest Green or Custom Color (see Ordering Information below) are chemically bonded, impact resistant finishes.

GASKETING: Die-cut, closed cell EPDM self adhesive gasket seals baseplate to mounting surface. Closed cell, silicone "O" ring gaskets positioned and friction secured in gasket channels of lens base, baseplate and optional surface adapter.

HARDWARE: Four stainless steel Torx® with center pin fasteners.

ELECTRICAL: Available in 3500K, 4000K, and 5000K color temperatures, 80 CRI. 120-277VAC, 50/60Hz electrical input with high power factor electronic, constant-current driver (>.90 PF). Standard 0-10V dimming with 1-100% range; maximum driver source of 200 µA.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty

LISTINGS: Luminaire is certified to UL Standards by either Underwriters Laboratory or Intertek Testing Laboratory for Wet Location. (listing includes Emergency Battery Pack "LEL" option). UL certified IP64 per IEC 60598.



ORDERING INFORMATION (Ex: MS15CL-PP-MB-25L40K-DV)

Model	Lens Type	Finish	Lamp Type	Voltage	Options	Accessories
PP						
Model			Lamp Type		Options	
MS15FL	Full Face		15L35K	15 Watt 3500K LED	LEL-SA	LED Emergency Battery Backup with Die-cast Surface Adapter (SA) - Non ADA (n/a with 347V)
MS15CL	Crossbar		15L40K	15 Watt 4000K LED	BPC-SA	Photo Control – Shielded Button Type with Die-cast Surface Adapter (SA) - Non ADA (120V or 277V only)
MS15DL	Diamond Eyelid		15L50K	15 Watt 5000K LED	FS	Single Fuse & Holder
MS15EL	Eyelid		25L35K	25 Watt 3500K LED	NAT	Natatorium Environment Option
			25L40K	25 Watt 4000K LED		
			25L50K	25 Watt 5000K LED		
Lens Type			Voltage		Accessories	
PP	Pearlescent Polycarbonate		120	120 Volts	SA	Die-Cast Surface Adapter
			277	277 Volts	9500	Torx® Screwdriver
			347†	347 Volts		
			DV†	120-277 Volts	†	n/a with BPC
Finish						
DB	Dark Bronze					
FG	Forest Green					
LG	Light Gray					
MB	Matte Black					
MW	Matte White					
SL	Silver					
CC	Custom Color (Consult factory)					



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A brand of **Legrand**

This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2019 Kenall Mfg. Co.

MS15_L-100918

MILLENIUM™ SQUARE

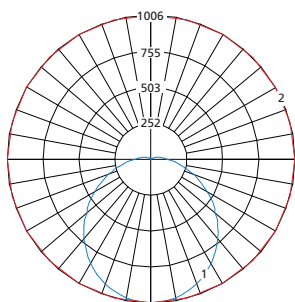
MS15 SERIES – LOW PROFILE HOUSING

PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
		@ 25°C (lm)	Efficacy (lm/W)			
MS15FL	15L35K	2,222	113	20	75	130,000
	15L40K	2,222	113	20	75	130,000
	15L50K	2,422	124	20	75	130,000
	25L35K	3,258	111	30	63	130,000
	25L40K	3,258	111	30	63	130,000
	25L50K	3,551	121	30	63	130,000
MS15CL	15L35K	1,784	91	20	75	130,000
	15L40K	1,784	91	20	75	130,000
	15L50K	1,945	99	20	75	130,000
	25L35K	2,616	89	30	63	130,000
	25L40K	2,616	89	30	63	130,000
	25L50K	2,851	97	30	63	130,000
MS15DL	15L35K	1,823	95	20	75	130,000
	15L40K	1,823	95	20	75	130,000
	15L50K	1,988	104	20	75	130,000
	25L35K	2,674	91	30	63	130,000
	25L40K	2,674	91	30	63	130,000
	25L50K	2,914	99	30	63	130,000
MS15EL	15L35K	1,860	97	20	75	130,000
	15L40K	1,860	97	20	75	130,000
	15L50K	2,028	106	20	75	130,000
	25L35K	2,727	93	30	63	130,000
	25L40K	2,727	93	30	63	130,000
	25L50K	2,973	101	30	63	130,000

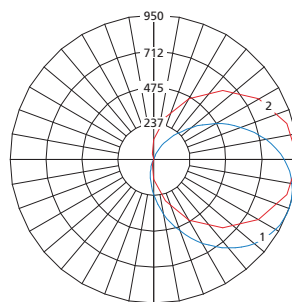
Info subject to change. Visit www.kenall.com for IES files and additional information.

Model: MS15FL-PP-MW-25L40K-DCC-DV



Max Candela = 1006 Located At Horizontal Angle = 0, Vertical Angle = 0
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: MS15EL-PP-MW-25L40K-DCC-DV



Max Candela = 950 Located At Horizontal Angle = 0, Vertical Angle = 65
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)



www.kenall.com | P: 800-4-Kenall | F: 262-891-9701 | 10200 55th Street Kenosha, Wisconsin 53144, USA

A brand of **legrand**

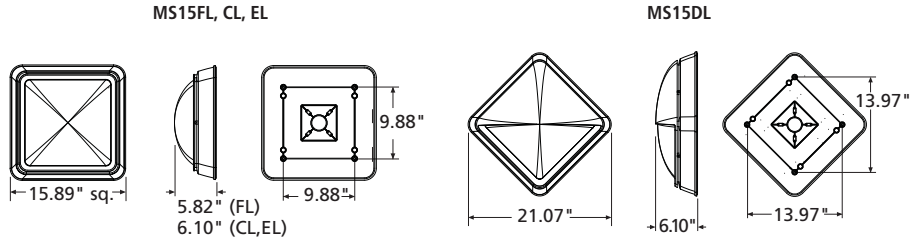
This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2019 Kenall Mfg. Co.

MS15_L-100918

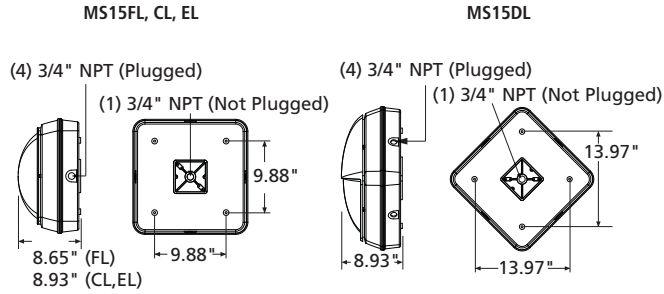
MILLENIUM™ SQUARE

MS15 SERIES – LOW PROFILE HOUSING

DIMENSIONAL DATA



SURFACE ADAPTER SIDE & BACK VIEW



FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6 35/15 L06AR LSS MVOLT EZ10

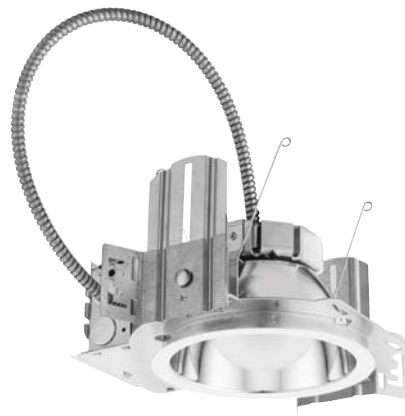
LDN6															
Series		Color temperature		Lumens ¹		Aperture/Trim Color				Finish		Voltage			
LDN6	6" round	27/	2700K	05	500 lumens	25	2500 lumens	L06	Downlight	AR	Clear	LSS	Semi-specular	MVOLT	Multi-volt
		30/	3000K	10	1000 lumens	30	3000 lumens	LW6	Wallwash	WR ²	White	LD	Matte diffuse	120	120V
		35/	3500K	15	1500 lumens	40	4000 lumens			BR ²	Black	LS	Specular	277	277V
		40/	4000K	20	2000 lumens	50	5000 lumens							347 ³	347V
		50/	5000K												

Driver	Options
GZ10 0-10V driver dims to 10%	SF ⁴ Single fuse
GZ1 0-10V driver dims to 1%	TRW ⁵ White painted flange
	TRBL ⁵ Black painted flange
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	EL ⁶ Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	ELR ⁶ Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	ELSD ⁶ Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD ⁶ Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	E10WCP ⁶ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB
	E10WCPR ⁶ Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB
	NPP16D ⁷ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).
	NPP16DER ⁷ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.
	N80 ⁸ nLight™ Lumen Compensation
	NPS80EZ ⁷ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
	NPS80EZER ⁷ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
	HAO ¹¹ High ambient option
	CP ¹² Chicago Plenum
	RRL____ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
	NLTAIR2 ^{9,10} nLight® Air enabled
	NLTAIRER2 ^{9,10} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options
	USPOM US point of manufacture
	90CRI High CRI (90+)

Accessories: Order as separate catalog number.	
PS1055CP	FMC Power Sentry battery pack, T20 compliant, field installable, 10w constant power
EAC ISSM 375	Compact interruptible emergency AC power system
EAC ISSM 125	Compact interruptible emergency AC power system
GRA68 JZ	Oversized trim ring with 8" outside diameter ¹
SCA6	Sloped ceiling adapter. Refer to TECH-SCA for more options.

Notes

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
- Not available with emergency options.
- Must specify voltage 120V or 277V.
- Available with clear (AR) reflector only.
- 12.5" of plenum depth or top access required for battery pack maintenance.
- Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
- Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
- NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
- Fixture height is 6.5" for all lumen packages with HAO.
- Must specify voltage for 3000lm. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.



LDN6

**6" OPEN and WALLWASH LED
Non-IC
New Construction Downlight**

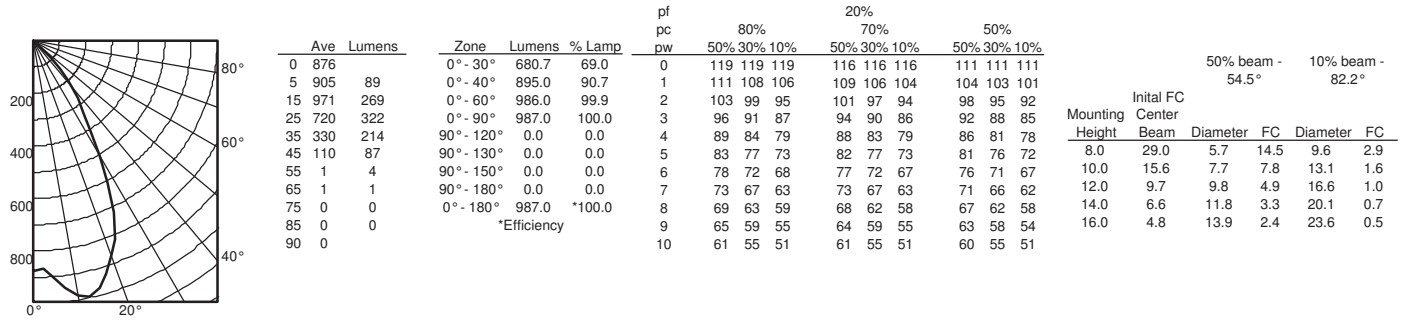


LDN6

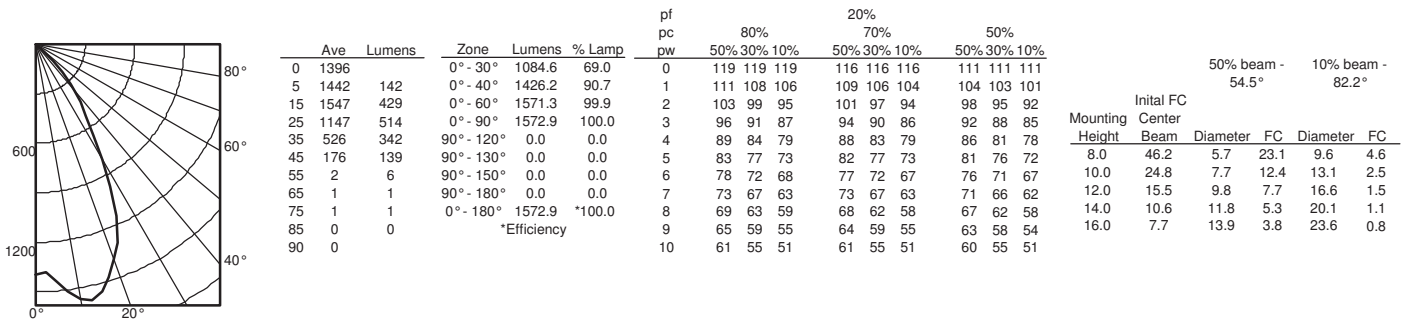
PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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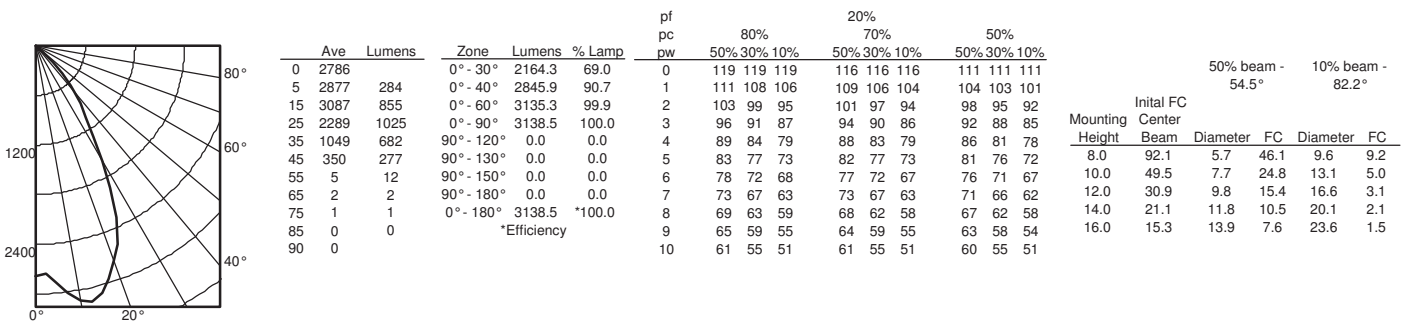
LDN6 35/10 L06AR, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0= 1.02, test no. ISF 30716P262.



LDN6 35/15 L06AR, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0= 1.02, test no. ISF 30716P265.



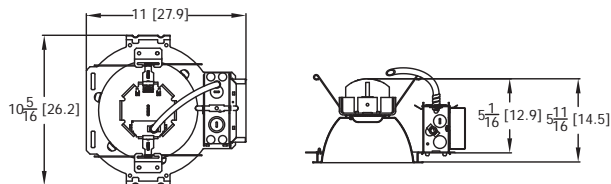
LDN6 35/30 L06AR, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.



LDN6

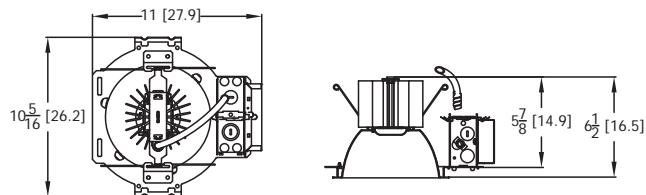
* All dimensions are inches (centimeters) unless otherwise noted.

LDN6 500-1500 LUMEN



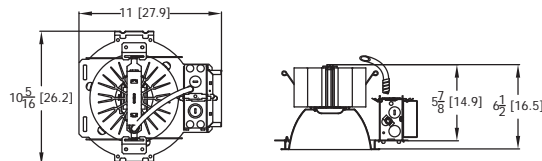
Aperture: 6-1/4 (15.9)
 Ceiling Opening: 7-1/8 (18.1)
 Overlap trim: 7-1/2 (19.1)

LDN6 2000-3000 LUMEN



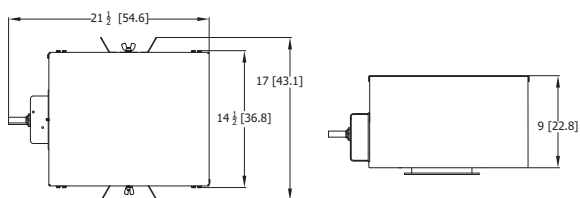
Aperture: 6-1/4 (15.9)
 Ceiling Opening: 7-1/8 (18.1)
 Overlap trim: 7-1/2 (19.1)

LDN6 4000-5000 LUMEN



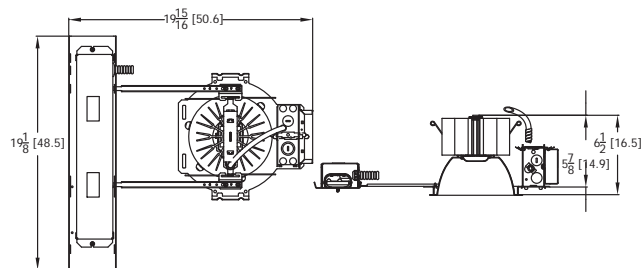
Marked Spacing: 24 x 24 x 10
 Aperture: 6-1/4 (15.9)
 Ceiling Opening: 7-1/8 (18.1)
 Overlap trim: 7-1/2 (19.1)

LDN6 CP



Aperture: 6-1/4" (15.9)
 Ceiling Opening: 7-1/8" (18.1)
 Overlap trim: 7-1/2" (19.1)

LDN6 EL-ELR



Marked Spacing above 3000 lumen: 24 x 24 x 10
 Aperture: 6-1/4 (15.9)
 Ceiling Opening: 7-1/8 (18.1)
 Overlap trim: 7-1/2 (19.1)

LDN6			
Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

ADDITIONAL DATA

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DDTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NDTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

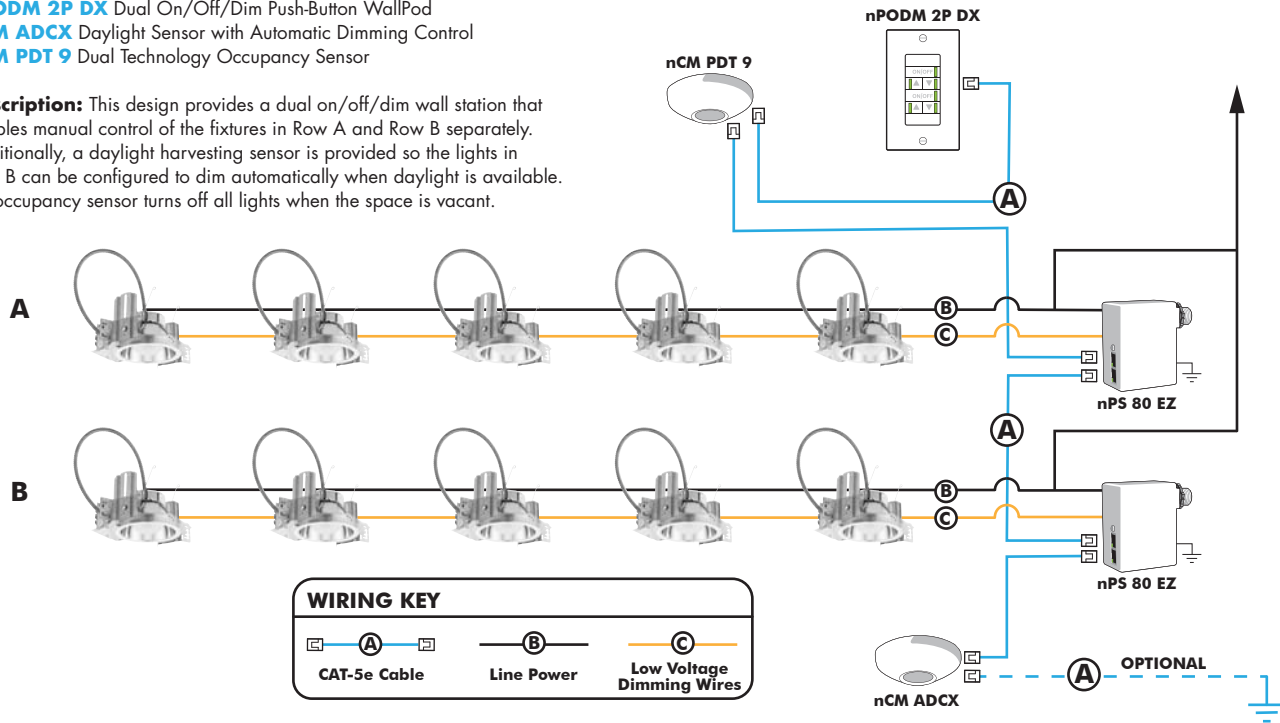
EXAMPLE

Group Fixture Control*

*Application diagram applies for fixtures with eldoLED drivers only.

nPS 80 EZ Dimming/Control Pack (qty: 2 required)**nPODM 2P DX** Dual On/Off/Dim Push-Button WallPod**nCM ADCX** Daylight Sensor with Automatic Dimming Control**nCM PDT 9** Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

**Choose Wall Controls**

nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button Wallpod
Traditional tactile buttons and LED user feedback



Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.

WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CAT5 10FT J1
		15, CAT5 15FT	CAT5 15FT J1

nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**Simple as 1,2,3**

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

**nLight® AIR Control Accessories:**

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH ¹

Notes

- 1 Can only be ordered with the RES7Z zone control sensor version.

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Durable square metal reflectors retained by torsion springs.

Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment. Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling).

IP55 rated. ENERGY STAR® certified product.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

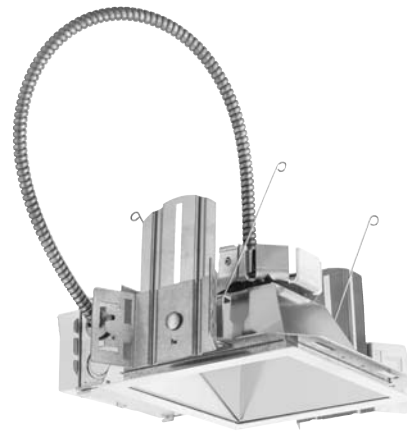
Catalog
Number

Notes

Type

LDN6SQ

**6" Square Open
Non-IC
New Construction Downlight**



A+ Capable options indicated
by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6SQ 35/15 LS6AR LSS MVOLT EZ1

LDN6SQ											
Series	Color temperature	Lumens ¹				Aperture/Trim Color				Finish	Voltage
LDN6SQ 6" square	27/ 2700K	05	500 lumens	25	2500 lumens	LS6	Downlight	AR	Clear	LSS	Semi-specular
	30/ 3000K	10	1000 lumens	30	3000 lumens	LSW6	Wallwash	WR ²	White	LD	Matte diffuse
	35/ 3500K	15	1500 lumens	40	4000 lumens			BR ²	Black	LS	Specular
	40/ 4000K	20	2000 lumens	50	5000 lumens						
	50/ 5000K										

Driver	Options
GZ10 0-10V driver dims to 10%	SF ⁴ Single fuse
GZ1 0-10V driver dims to 1%	TRW ⁵ White painted flange
	TRBL ⁵ Black painted flange
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	EL ⁶ Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	ELR ⁶ Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	ELSD ⁶ Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD ⁶ Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	E10WCP ⁶ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB
	E10WCPR ⁶ Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB
	NPP16D ⁷ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).
	NPP16DER ⁷ nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.
	N80 ⁸ nLight™ Lumen Compensation
	NPS80EZ ⁷ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
	NPS80EZER ⁷ nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
	HAO ¹¹ High ambient option
	CP ¹² Chicago Plenum
	RRL___ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
	NLTAIR2 ^{9,10} nLight® Air enabled
	NLTAIRER2 ^{9,10} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options
	USPOM US point of manufacture
	90CRI High CRI (90+)

Notes

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
- Not available with emergency options.
- Must specify voltage 120V or 277V.

- Available with clear (AR) reflector only.
- 12.5" of plenum depth or top access required for battery pack maintenance.
- Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZER. Only available with EZ10 and EZ1 drivers.

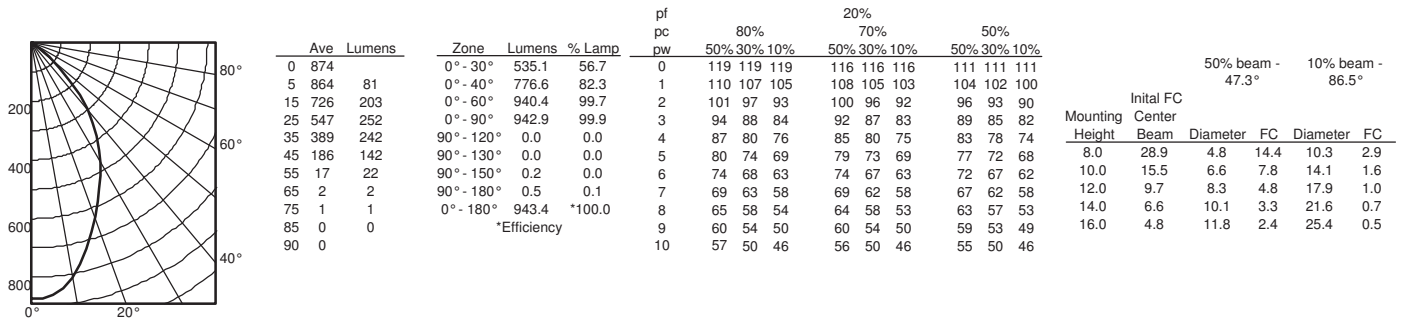
- Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
- NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
- Fixture height is 6.5" for all lumen packages with HAO.
- Must specify voltage for 3000lm. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.

LDN6SQ

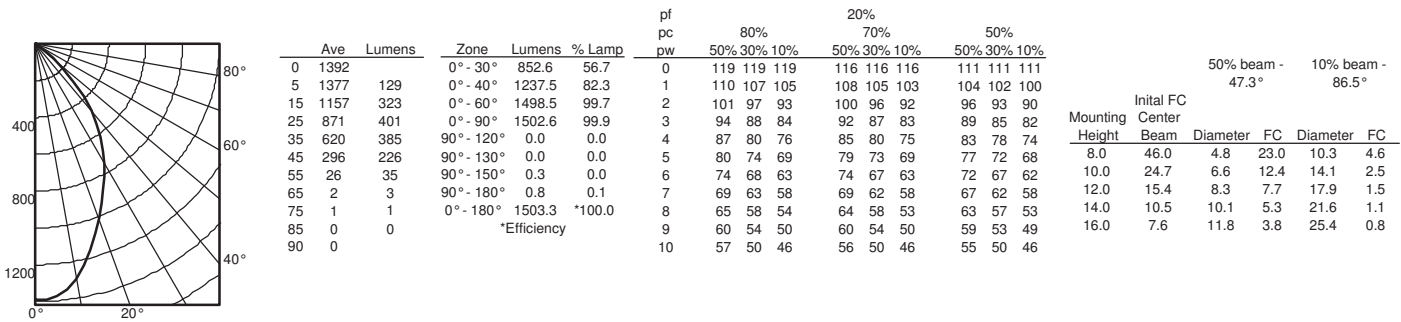
PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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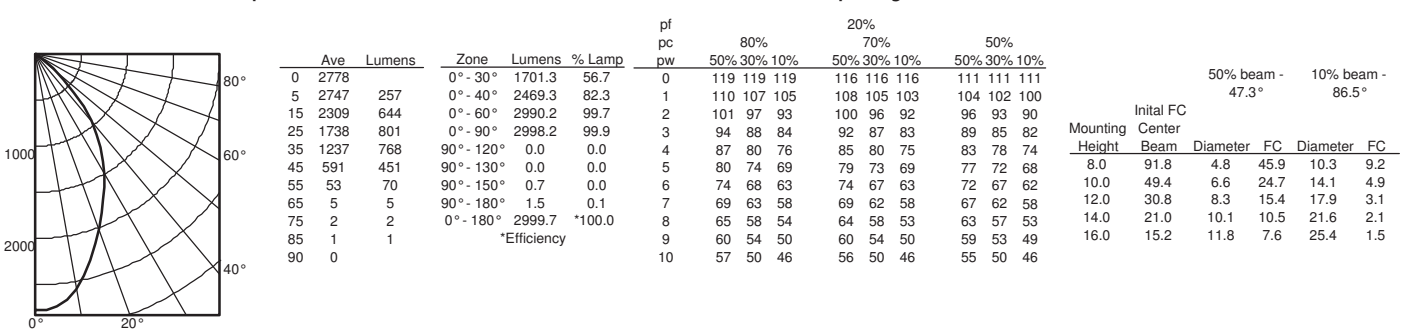
LDN6SQ 35/10 LS6AR, input watts: 10.44, delivered lumens: 942.9, LM/W = 90.31, spacing criterion at 0= 0.96, test no. ISF 31035P168.



LDN6SQ 35/15 LS6AR, input watts: 17.52, delivered lumens: 1502.6, LM/W = 85.76, spacing criterion at 0= 0.96, test no. ISF 31035P171.



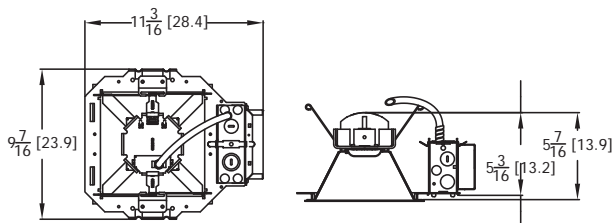
LDN6SQ 35/30 LS6AR, input watts: 34.75, delivered lumens: 2998.2, LM/W = 86.27, spacing criterion at 0= 0.96, test no. ISF 31035P180.



LDN6SQ

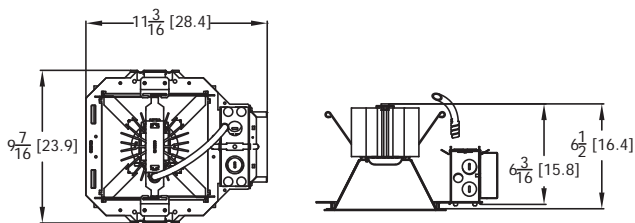
* All dimensions are inches (centimeters) unless otherwise noted.

LDN6SQ 500-1500 LUMEN



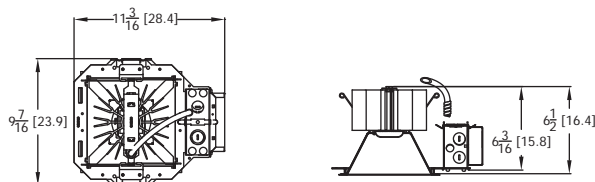
Aperture: 6-1/4 (15.9) Square
Ceiling Opening: 7-1/8 (18.1) Square
Overlap trim: 7-1/2 (19.1) Square

LDN6SQ 2000-3000 LUMEN



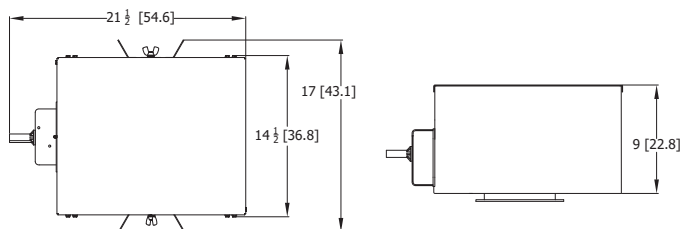
Aperture: 6-1/4 (15.9) Square
Ceiling Opening: 7-1/8 (18.1) Square
Overlap trim: 7-1/2 (19.1) Square

LDN6SQ 4000-5000 LUMEN



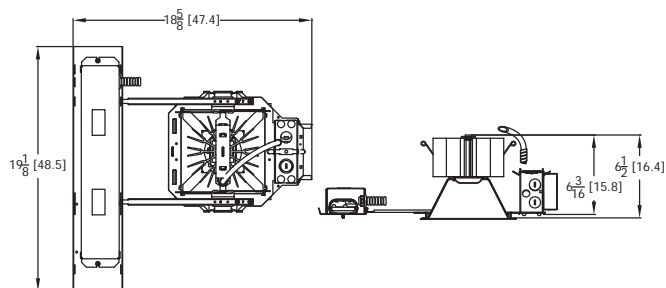
Marked Spacing: 24 x 24 x 10
Aperture: 6-1/4 (15.9) Square
Ceiling Opening: 7-1/8 (18.1) Square
Overlap trim: 7-1/2 (19.1) Square

LDN6SQ CP



Aperture: 6-1/4" (15.9) Square
Ceiling Opening: 7-1/8" (18.1) Square
Overlap trim: 7-1/2" (19.1) Square

LDN6SQ EL-ELR



Marked Spacing Above 3000 Lumens: 24 x 24 x 10
Aperture: 6-1/4 (15.9) Square
Ceiling Opening: 7-1/8 (18.1) Square
Overlap trim: 7-1/2 (19.1) Square

LDN6SQ			
Nominal Lumens	Lumens	Wattage	Lm/W
500	498	5.8	85.4
750	715	8.9	80.2
1000	896	10.4	85.8
1500	1428	17.5	81.5
2000	1892	22.5	84.0
2500	2362	28.3	83.6
3000	2850	34.8	82.0
4000	3781	44.3	85.4
5000	4694	57.7	81.4

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

ADDITIONAL DATA

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DDTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background***
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background***

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

EXAMPLE

Group Fixture Control*

*Application diagram applies for fixtures with eldoLED drivers only.

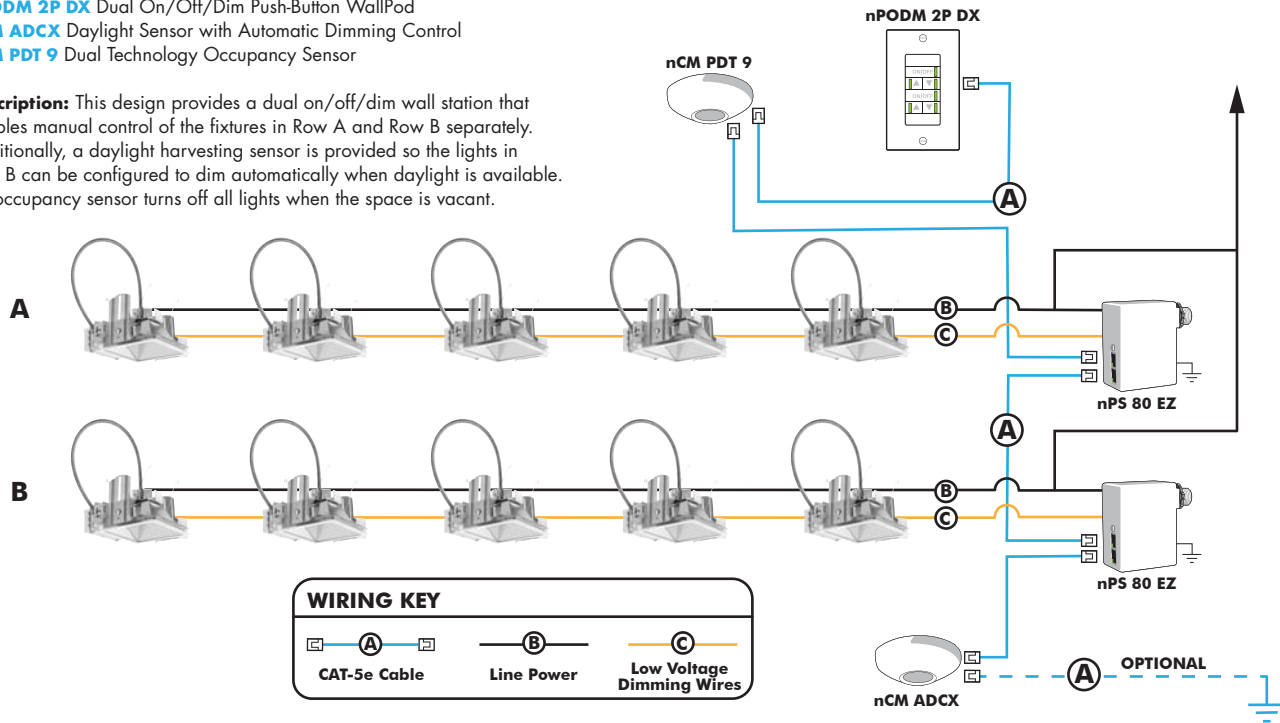
nPS 80 EZ Dimming/Control Pack (qty: 2 required)

nPODM 2P DX Dual On/Off/Dim Push-Button WallPod

nCM ADCX Daylight Sensor with Automatic Dimming Control

nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.



Choose Wall Controls

nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button Wallpod
Traditional tactile buttons and LED user feedback



Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.

WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CAT5 10FT J1
		15, CAT5 15FT	CAT5 15FT J1

nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.



Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



nLight® AIR Control Accessories:	
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair .	
Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH ¹

Notes

- 1 Can only be ordered with the RES7Z zone control sensor version.

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offered with acrylic lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ordering information on page 15.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 12 for actual wattage consumption). This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

L70>100,000 hours at 25°C.

LEDs provide nominal 80 CRI or 90CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGBRT), pendant or stem mounted with appropriate mounting options.

WARNING — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F (50°C) available on certain lumen packages (See ambient temperature chart for additional information).

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

Stock Part Number	UPC	DLC QPL Product ID	DLC Premium
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816	PJANKZR4	Yes
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885	PKW32VKL	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939	P77I8Z20	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908	P8A42C1H	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861	PPFTGRBV	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915	PW6250TE	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922	PYKOC7EW	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830	PKYPL35K	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960	PJANKZR4	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892	PKW32VKL	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854	P77I8Z20	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946	P8A42C1H	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878	PPFTGRBV	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823	PD0SSIAD	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953	PYKOC7EW	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847	PKYPL35K	Yes

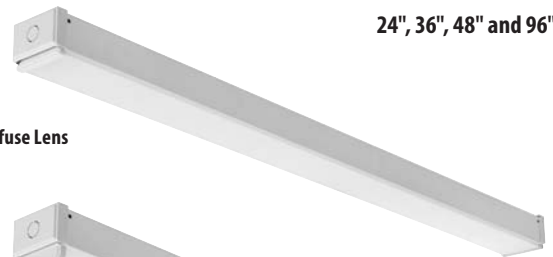
Catalog Number
Notes
Type

LED Linear

CLX

24", 36", 48" and 96" Lengths

Flat Diffuse Lens



Round Diffuse Lens



Wide Diffuse Lens



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a [shaded background](#)*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH

Series	Length	Nominal lumens	Performance package	Louver	Lens
CLX LED linear	L24 24" ^{1,2}	1500LM 1,500 lumens	SEF Standard efficiency ⁵ HEF Premium efficiency	(Blank) Less louver SBLW Straight blade louver, white ⁶ SBLMB Straight blade louver, matte black ⁶ SBLGV Straight blade louver, galvanized ⁶ SBLSKGY Straight blade louver, smoke gray ⁶	L/Lens Less lens FDL Flat diffuse ^{7,8} RDL Round diffuse ^{7,8} WDL Wide diffuse ^{7,8}
		2000LM 2,000 lumens			
		2500LM 2,500 lumens			
		3500LM 3,500 lumens			
		4500LM 4,500 lumens			
		5000LM 5,000 lumens ^{3,4}			
	L36 36" ²	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
		7500LM 7,500 lumens ^{3,4}			
	L48 48"	3000LM 3,000 lumens			
		4000LM 4,000 lumens			
		5000LM 5,000 lumens			
		7000LM 7,000 lumens ²			
		9000LM 9,000 lumens ²			
		10000LM 10,000 lumens ^{2,4}			
	L96 96"	6000LM 6,000 lumens			
		8000LM 8,000 lumens			
		10000LM 10,000 lumens			
		14000LM 14,000 lumens ^{2,4}			
		18000LM 18,000 lumens ^{2,4}			
		20000LM 20,000 lumens ^{2,4}			

Distribution	Voltage	Driver ¹⁴	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V ¹⁰	GZ10 0-10V dimming ¹⁵	30K 3000 K	80CRI 80 CRI
ND Narrow ^{8,9}	120 120V	EZ1 Dimming to 1% ²	35K 3500 K	90CRI 90 CRI
WD Wide ^{8,9}	208 208V ¹¹		40K 4000 K	
AD2 Aisle, 24° off center ^{8,9}	240 240V ¹¹		50K 5000 K	

Options	Finish
PS1050 Emergency battery pack, 10W, CA Title 20 Noncompliant ^{2,11,13,16,17}	WH White
E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ^{2,11,13,16,17}	GALVW Galvanized with white lens end caps
BGTD Generator transfer device, not available with PS1050 ^{13,16,18}	GALVB Galvanized with black lens end caps
OCS 5', 18/3 Reloc selectable One Pass cable ¹⁶	MB Matte black
HA High ambient, for use in ambient temperatures up to 50°C ¹¹	SKGYW Smoke gray with white lens end caps
EPNKO Decorative endplate, no knock out ¹⁹	SKGYB Smoke gray with black lens end caps
OUTCTR Wiring leads pulled through back center of fixture ²⁰	
OUTEND Wiring leads pulled through end of fixture ²¹	
Cord Sets:	
CS1W Straight blade plug, 120V ^{10,16}	
CS3W NEMA twist-lock plug, 120V ^{10,16}	
CS7W Straight blade plug, 277V ^{10,16}	
CS11W NEMA twist-lock plug, 277V ^{10,16}	
CS25W NEMA twist-lock plug, 347V ^{10,16}	
CS97W NEMA twist-lock plug, 480V ^{10,16}	
CS93W 600V SEOW white cord, no plug (no voltage required)	
CS6WG16STOWD5D 6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ¹⁵	
PLR___ Plug-in wiring, see page 16 for ordering information	
PLR1LVG Plug-in wiring, low voltage dimming ²²	
RRL___ RELOC®-ready luminaire. See page 15 for ordering information	
SPD Surge protection device, provides up to 6kV protection ^{16,20}	
USPOM Assembled in the United States	
nLight® Wireless: ^{23,24}	
NLTAIR2 RES7 nLight® Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell	
NLTAIR2 RES7PDT nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell	
NLTAIR2 RIO No sensor control	
nLight® Wired: ^{23,25}	
N100 nLight® without lumen management	
NES7 nLight® nES 7 PIR integral occupancy sensor ²⁶	
NESPDT7 nLight® nES PDT 7 dual technology integral occupancy control ²⁶	
NES7ADCX nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ²⁶	
NESPDT7ADCX nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ²⁶	
Individual controls: ^{23,25}	
MSD7 PIR integral occupancy sensor	
MSDPDT7 PDT 7 dual technology integral occupancy control	
MSD7ADC PIR integral occupancy sensor with automatic dimming control photocell	
MSDPDT7ADC PDT integral occupancy sensor with automatic dimming control photocell	

See Accessories and footnotes on next page

Accessories: Order as separate catalog number.			
Mounting:			
ZACVH	Aircraft cable 120" (one pair)	THCLX ____	Tong hanger (Must specify color) (one pair) ²⁸
ZAC120	One adjustable aircraft cable with canopy 120" ²⁷	CLXANGBKT ____	Angle bracket, (Must specify color) (one pair) ²⁸
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120" ²⁷	HC36	Hanger chain, 36" (one pair)
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120" ²⁷	Sensors & Controls:	
ZAC240	One adjustable aircraft cable with canopy 240" ²⁷	LSXR	Sensor Switch ® LSXR occupancy sensor ²⁹
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240" ²⁷	NPP16D	nLight® switching/dimming module
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240" ²⁷	NPP16DER	nLight® switching/dimming module with emergency relay
SQ_	Stem kit, 2" increments up to 48" ²⁷	rPP20D	nLight® air dimming/switching module
		XPA CMR80	XPoint™ Wireless 0-10V relay, external, 55°C max ambient
		Reflectors:	
		CLXRW24_	Wide decorative 24" reflector, (Must specify color) ³⁰
		CLXRW36_	Wide decorative 36" reflector, (Must specify color) ³⁰
		CLXRW48_	Wide decorative 48" reflector, (Must specify color) ³⁰
		CLXRW96_	Two wide decorative 48" reflectors, (Must specify color) ³⁰
		CLXRWU24_	Wide decorative 24" reflector with uplight, (Must specify color) ³⁰
		CLXRWU36_	Wide decorative 36" reflector with uplight, (Must specify color) ³⁰
		CLXRWU48_	Wide decorative 48" reflector with uplight, (Must specify color) ³⁰
		CLXRWU96_	Two wide decorative 48" reflectors with uplight, (Must specify color) ³⁰
		CLXRN24	Narrow 24" reflector, (Must specify color) ³¹
		CLXRN36	Narrow 36" reflector, (Must specify color) ³¹
		CLXRN48	Narrow 48" reflector, (Must specify color) ³¹
		CLXRN96_	Two narrow 48" reflectors, (Must specify color) ³¹
		Wireguards:	
		WGCLX24_	24" wireguard, (Must specify color) ³²
		WGCLX36_	36" wireguard, (Must specify color) ³²
		WGCLX48_	48" wireguard, XX, (Must specify color) 96" fixture requires two ³²

Notes

- Not available with OUTCTR option.
- Not available with HA option.
- Not available with SEF when ordered in combination with EZ1.
- Not available with NLTAIR2 RES7, NLTAIR2 RES7PDT, or NLTAIR2 RIO.
- Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
- When ordered with L24 only available with 1500LM or 2000LM in combination with GZ10 driver. Not for use with THCLX, CLXANGBKT, CLX reflectors or WGCLX accessories. Not available with RDL lens options.
- Only available with general distribution.
- Not available with CLXRN accessories.
- Available L/LENS only.
- Not available with PS1050, E10WLCP, or BGTD.
- Not available with BGTD option.
- Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100. Not available with PS1050, E10WLCP or BGTD option.
- Requires SPD option.
- When continuous row mounting, fixtures must all have the same driver selection.
- Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
- Must specify voltage.
- Not available with L24 or L36. Not available with L48 in combination with N100.
- Available with L48 or L96 only. 20 Not available with PS1050 or E10WLCP options. Not available with 208 or 240V. Not available Individual controls, NLight Wired, or NLight Wireless options.
- Not available OUTEND.
- Required with PS1050, E10WLCP, BGTD, XAD, or XAD924.
- Not available with PLR options.
- Not available with XPoint, Individual controls, NLight Wired, or NLight Wireless options.
- Sensor housing will be the same color as lens end caps.
- Not available with L24 in combination with 5000LM, not available with L36 in combination with 7500LM, not available with L48 in combination with 10000LM, and not available with L96 in combination with 14000LM, 18000LM, or 20000LM. Not available with PLRs containing low voltage dimming wires.
- Not available with any other control option. Requires EZ1.
- Requires N100 option.
- Ships standard as white.
- Not available with louver, wireguards, wide reflectors.
- More configurations on [LSXR Specification Sheet](#).
- L24 reflector is 22.65", L36 reflector is 34.01", L48 reflector is 46.80", L96 comes with two L48 reflectors.
- For use with L/LENS fixtures only. L24 reflector is 22.75", L36 reflector is 34.20", L48 reflector is 46.85", L96 comes with two L48 reflectors.
- Not for use with CLX wide reflector accessories.

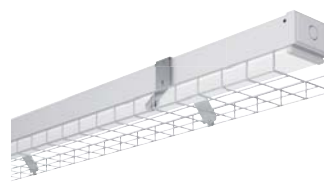
OPTIONS AND ACCESSORIES



Narrow reflector
Ships separately from fixture.
Order as:
CLXRN24_ _____
CLXRN36_ _____
CLXRN48_ _____
CLXRN96_ _____



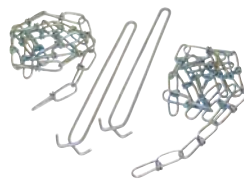
Wide decorative reflector
Ships separately from fixture.
Order as:
CLXRW24_ _____
CLXRW36_ _____
CLXRW48_ _____
CLXRW96_ _____



Wireguard
Ships separately from fixture:
96" fixture requires two WGCLX48.
Order as:
WGCLX24_ _____
WGCLX36_ _____
WGCLX48_ _____



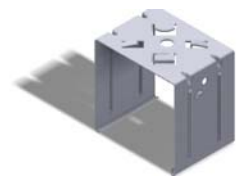
Aircraft Cable with Canopy
Available in 120" or 240"
Order as:
ZAC120 _____
ZAC240 _____



HANGER CHAIN
36" chain with Y hanger. ships as a pair
Order as:
HC36 _____



ZACVH HANGER
10' Aircraft cable with Y hanger.
Order as:
ZACVH _____



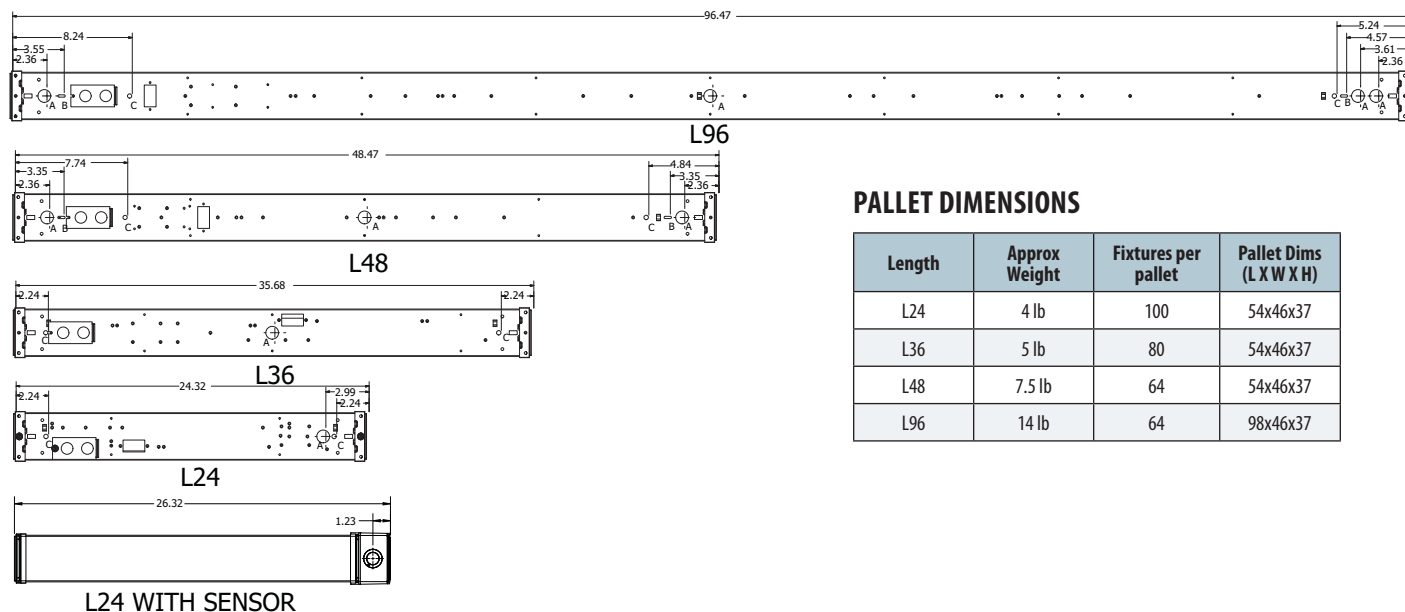
Tong hanger
Ships as a pair
Order As:
THCLX_ _____

DIMENSIONS

All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.

INTEGRATED SENSOR ADDS 2.0 INCHES TO STANDALONE FIXTURE LENGTH
HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE. DIMENSIONS BELOW INCLUDE ENDCAPS.

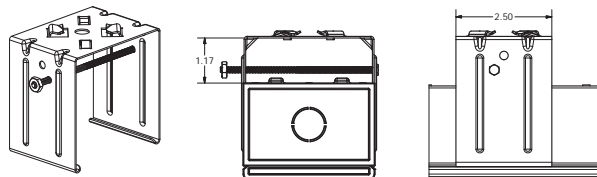
A - 7/8" KNOCK OUT
B - 0.5" by 0.16" SLOT
C - 0.3" DIA HOLE



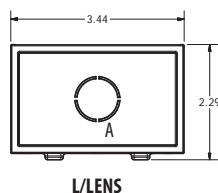
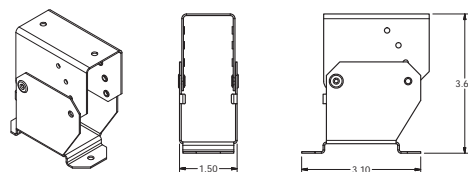
PALLET DIMENSIONS

Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

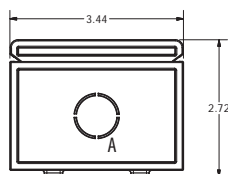
THCLX - SHIPS TWO PER ORDER,
UTILIZES A #8 HEX HEAD SCREW AND NUT
FIXTURE SITS 1.3 INCHES FROM STRUCTURE WHEN MOUNTED



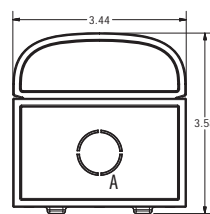
CLXANGBKT - SHIPS TWO PER ORDER
HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART
FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE
WHEN MOUNTED HORIZONTAL TO STRUCTURE



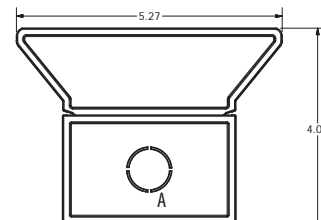
L/LENS



FDL



RDL



WDL

PHOTOMETRICS

See www.lithonia.com.

POWER SENTRY EMERGENCY BATTERY PACKS

		SEF Emergency Lumens	HEF Emergency Lumens
PS1050	Factory installable	1400	1500
E10WLCP	Factory installable	1400	1500
PS1555LCP	Field installable, remote mount only	2000	2100

Note: For emergency lumen output of specific model, please consult factory. One board will be illuminated during emergency operation.

CLX CHARACTERISTICS

Nominal Lumen Package	Length	Wattage								Length	Width	Depth	Comparable Light Source
		Standard efficiency				High efficiency							
		120V	277V	347V	480V	120V	277V	347V	480V	Dimensions are shown in inches			
2500LM	24"	19.9	19.9	25.9	25.9	18.5	18.5	24.5	24.5	24	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.9	41.9	47.9	47.9	37.9	37.9	43.9	43.9	24	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	28.1	28.1	34.1	34.1	27.0	27.0	33.0	33.0	36	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.9	62.9	68.9	68.9	56.8	56.8	62.8	62.8	36	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	35.4	35.4	41.4	41.4	32.9	32.9	38.9	38.9	48	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	77.1	77.1	83.1	83.1	70.4	70.4	76.4	76.4	48	3.5	3.75	3-lamp 32WT8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	70.8	70.8	76.8	76.8	65.8	65.8	71.8	71.8	96	3.5	3.75	3-lamp 32WT8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	154.2	154.2	160.2	160.2	140.8	140.8	146.8	146.8	96	3.5	3.75	6-lamp 32WT8, 4-lamp 54T5HO, 200W HID

AMBIENT TEMPERATURE RATINGS

Driver Package		GZ10			EZ1 or EOHN			Any Driver	
Length	Lumen package	Direct Surface	THCLX/ Suspended	HA Option (Direct or Suspended)	Direct Surface	THCLX	Suspended 18"	Xpoint/ BGTD Direct Surface	PS1050 Suspended
L24	1500LM	40C	40C	N/A	35C	35C	35C	N/A	N/A
	2000LM	40C	40C		35C	35C	35C		
	2500LM	40C	40C		35C	35C	35C		
	3000LM	40C	40C		40C	40C	40C		
	4500LM	40C	40C		35C	35C	40C		
	5000LM	40C	40C		25C	30C	35C		
L36	2250LM	40C	40C		40C	40C	40C		
	3000LM	40C	40C		40C	40C	40C		
	3750LM	40C	40C		40C	40C	40C		
	5250LM	40C	40C		35C	35C	40C		
	6750LM	30C	40C		35C	35C	40C		
	7500LM	30C	40C		25C	30C	35C		
L48	3000LM	40C	40C	50C	40C	40C	40C	35C	25C
	4000LM	40C	40C	50C	40C	40C	40C		
	5000LM	40C	40C	50C	35C	35C	40C		
	7000LM	30C	40C	N/A	35C	35C	40C		
	9000LM	30C	40C		25C	30C	35C		
	10000LM	30C	40C		25C	30C	35C		
L96	6000LM	40C	40C	50C	35C	35C	40C		
	8000LM	30C	40C	50C	35C	35C	40C		
	10000LM	30C	40C	50C	25C	30C	35C		
	14000LM	40C	40C	N/A	35C	35C	40C		
	18000LM	30C	40C		25C	30C	35C		
	20000LM	30C	40C		25C	30C	35C		

CLX OPERATIONAL DATA

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
L/Lens	L24	1500LM	SEF	80	1497	1540	1582	1619	10.85	
				90	1305	1333	1371	1441	10.85	
			HEF	80	1493	1514	1582	1586	10.39	
				90	1220	1237	1301	1301	10.39	
		2000LM	SEF	80	2066	2125	2183	2235	14.48	
				90	1801	1840	1892	1989	14.48	
			HEF	80	2060	2089	2183	2189	13.46	
				90	1684	1708	1796	1796	13.46	
		2500LM	SEF	80	2616	2689	2763	2829	18.41	
				90	2279	2329	2394	2517	18.41	
			HEF	80	2607	2644	2763	2771	17.42	
				90	2132	2161	2273	2273	17.42	
		3500LM	SEF	80	3518	3617	3716	3804	25.83	
				90	3065	3132	3220	3385	25.83	
			HEF	80	3506	3556	3716	3726	25.04	
				90	2867	2907	3057	3057	25.04	
		4500LM	SEF	80	5040	5182	5325	5451	38.7	
				90	4392	4487	4614	4851	38.7	
			HEF	80	5024	5096	5325	5339	34.8	
				90	4108	4165	4380	4380	34.8	
		5000LM	SEF	80	5355	5506	5657	5791	41.48	
				90	4667	4767	4902	5153	41.48	
			HEF	80	5338	5414	5657	5672	38.11	
				90	4364	4425	4653	4653	38.11	
	L36	2250LM	SEF	80	2411	2547	2101	2207	16.36	
				90	2479	2607	2146	2320	16.36	
			HEF	80	2437	2554	1965	2095	15.47	
				90	2547	2403	1992	2095	15.47	
			3000LM	SEF	80	3221	3388	2730	2868	20.8
					90	3310	3133	2789	3015	20.8
				HEF	80	3167	3319	2553	2722	19.98
					90	3310	3123	2589	2722	19.98
			3750LM	SEF	80	4123	4337	3495	3671	26.47
					90	4236	4010	3570	3859	26.47
				HEF	80	4054	4248	3268	3485	25.09
					90	4236	3997	3314	3485	25.09
		5250LM	SEF	80	5545	5833	4700	4937	39.9	
				90	5698	5393	4801	5190	39.9	
			HEF	80	5452	5713	4396	4687	34.3	
				90	5698	5376	4457	4687	34.3	
		6750LM	SEF	80	7081	7448	6001	6303	54.85	
				90	7275	6886	6131	6627	54.85	
			HEF	80	6962	7294	5613	5984	47.97	
				90	7275	6864	5691	5984	47.97	
		7500LM	SEF	80	7756	8158	6574	6905	62.6	
				90	7969	7543	6716	7260	62.6	
			HEF	80	7626	7991	6148	6555	54.02	
				90	7969	7519	6234	6555	54.02	

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
L/Lens	L48	3000LM	SEF	80	3019	3104	3190	3265	20.32	
				90	2631	2688	2764	2906	20.32	
			HEF	80	3010	3052	3190	3198	19.01	
				90	2461	2495	2624	2624	19.01	
		4000LM	SEF	80	4034	4148	4262	4363	27.58	
				90	3515	3591	3693	3882	27.58	
			HEF	80	4021	4078	4262	4273	24.75	
				90	3288	3334	3505	3505	24.75	
			5000LM	SEF	80	5047	5189	5332	5458	34.8
					90	4398	4493	4620	4857	34.8
		HEF		80	5031	5102	5332	5346	31.77	
				90	4113	4171	4386	4386	31.77	
		7000LM	SEF	80	7311	7517	7724	7907	49.05	
				90	6371	6509	6692	7036	49.05	
			HEF	80	7288	7391	7724	7744	44.67	
				90	5959	6042	6353	6353	44.67	
		9000LM	SEF	80	9215	9475	9735	9967	63.99	
				90	8031	8204	8435	8869	63.99	
			HEF	80	9186	9317	9735	9762	58.58	
				90	7511	7615	8008	8008	58.58	
		10000LM	SEF	80	10299	10590	10880	11139	73.37	
				90	8975	9169	9427	9912	73.37	
			HEF	80	10266	10412	10880	10910	66.27	
				90	8394	8511	8950	8950	66.27	
	L96	6000LM	SEF	80	5942	6110	6278	6427	38.15	
				90	5178	5290	5439	5719	38.15	
			HEF	80	5923	6008	6278	6294	35.54	
				90	4843	4911	5164	5164	35.54	
			8000LM	SEF	80	7929	8153	8376	8575	52.32
					90	6910	7059	7258	7631	52.32
		HEF		80	7903	8016	8376	8399	48.5	
				90	6462	6552	6890	6890	48.5	
		10000LM	SEF	80	9808	10085	10362	10608	66.47	
				90	8548	8732	8978	9439	66.47	
			HEF	80	9777	9916	10362	10390	60.89	
				90	7994	8106	8523	8523	60.89	
		14000LM	SEF	80	14323	14727	15131	15491	94.78	
				90	12482	12752	13111	13784	94.78	
			HEF	80	14277	14480	15131	15172	85.96	
				90	11674	11836	12447	12447	85.96	
		18000LM	SEF	80	18458	18979	19500	19963	128.98	
				90	16086	16433	16896	17764	128.98	
			HEF	80	18399	18661	19500	19552	116.92	
				90	15044	15254	16040	16040	116.92	
		20000LM	SEF	80	20386	20962	21537	22048	146.83	
				90	17766	18150	18661	19619	146.83	
			HEF	80	20321	20610	21537	21595	131.6	
				90	16616	16847	17716	17716	131.6	

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
RDL	L24	1500LM	SEF	80	1359	1397	1436	1470	10.85	
				90	1184	1210	1244	1308	10.85	
			HEF	80	1355	1374	1436	1439	10.39	
				90	1107	1123	1181	1181	10.39	
		2000LM	SEF	80	1875	1928	1981	2028	14.48	
				90	1634	1670	1717	1805	14.48	
			HEF	80	1869	1896	1981	1987	13.46	
				90	1528	1550	1630	1630	13.46	
		2500LM	SEF	80	2374	2441	2508	2567	18.41	
				90	2069	2113	2173	2284	18.41	
			HEF	80	2366	2400	2508	2514	17.42	
				90	1935	1962	2063	2063	17.42	
		3500LM	SEF	80	3192	3282	3372	3452	25.83	
				90	2782	2842	2922	3072	25.83	
			HEF	80	3182	3227	3372	3381	25.04	
				90	2602	2638	2774	2774	25.04	
		4500LM	SEF	80	4574	4703	4832	4947	38.7	
				90	3986	4072	4187	4402	38.7	
			HEF	80	4560	4624	4832	4845	34.8	
				90	3728	3780	3975	3975	34.8	
		5000LM	SEF	80	4860	4997	5134	5256	41.48	
				90	4235	4327	4448	4677	41.48	
			HEF	80	4844	4913	5134	5148	38.11	
				90	3961	4016	4223	4223	38.11	
	L36	2250LM	SEF	80	2188	2250	2311	2366	16.36	
				90	1907	1948	2003	2106	16.36	
			HEF	80	2181	2212	2311	2318	15.47	
				90	1783	1808	1901	1901	15.47	
			3000LM	SEF	80	2843	2924	3004	3075	20.8
					90	2478	2531	2603	2736	20.8
				HEF	80	2834	2875	3004	3012	19.98
					90	2317	2350	2471	2471	19.98
			3750LM	SEF	80	3639	3742	3845	3936	26.47
					90	3171	3240	3331	3502	26.47
				HEF	80	3628	3679	3845	3855	25.09
					90	2966	3007	3162	3162	25.09
		5250LM	SEF	80	4895	5033	5171	5294	39.9	
				90	4265	4357	4480	4710	39.9	
			HEF	80	4879	4948	5171	5185	34.3	
				90	3989	4045	4253	4253	34.3	
		6750LM	SEF	80	6250	6426	6602	6759	54.85	
				90	5446	5564	5721	6014	54.85	
			HEF	80	6230	6318	6602	6620	47.97	
				90	5094	5165	5431	5431	47.97	
		7500LM	SEF	80	6846	7039	7232	7404	62.6	
				90	5966	6095	6266	6588	62.6	
			HEF	80	6824	6921	7232	7252	54.02	
				90	5580	5657	5949	5949	54.02	

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
RDL	L48	3000LM	SEF	80	2740	2817	2895	2963	20.32	
				90	2388	2439	2508	2637	20.32	
			HEF	80	2731	2770	2895	2902	19.01	
				90	2233	2264	2381	2381	19.01	
		4000LM	SEF	80	3661	3764	3868	3959	27.58	
				90	3190	3259	3351	3523	27.58	
			HEF	80	3649	3701	3868	3878	24.75	
				90	2984	3025	3181	3181	24.75	
		5000LM	SEF	80	4580	4710	4839	4954	34.8	
				90	3992	4078	4193	4408	34.8	
			HEF	80	4566	4631	4839	4852	31.77	
				90	3733	3785	3980	3980	31.77	
		7000LM	SEF	80	6635	6822	7009	7176	49.05	
				90	5782	5907	6073	6385	49.05	
			HEF	80	6614	6708	7009	7028	44.67	
				90	5408	5483	5766	5766	44.67	
		9000LM	SEF	80	8363	8599	8835	9045	63.99	
				90	7288	7446	7655	8049	63.99	
			HEF	80	8336	8455	8835	8859	58.58	
				90	6816	6911	7268	7268	58.58	
		10000LM	SEF	80	9347	9611	9874	10109	73.37	
				90	8145	8321	8556	8995	73.37	
			HEF	80	9317	9450	9874	9901	66.27	
				90	7618	7724	8122	8122	66.27	
	L96	6000LM	SEF	80	5393	5545	5697	5832	38.15	
				90	4700	4801	4936	5190	38.15	
			HEF	80	5375	5452	5697	5712	35.54	
				90	4395	4457	4686	4686	35.54	
			8000LM	SEF	80	7196	7399	7602	7782	52.32
					90	6271	6406	6587	6925	52.32
				HEF	80	7173	7275	7602	7622	48.5
					90	5865	5946	6253	6253	48.5
		10000LM	SEF	80	8902	9153	9404	9627	66.47	
				90	7757	7925	8148	8567	66.47	
			HEF	80	8873	8999	9404	9429	60.89	
				90	7255	7356	7735	7735	60.89	
		14000LM	SEF	80	12999	13366	13732	14058	94.78	
				90	11328	11573	11899	12510	94.78	
			HEF	80	12957	13142	13732	13769	85.96	
				90	10594	10742	11296	11296	85.96	
		18000LM	SEF	80	16751	17224	17697	18117	128.98	
				90	14598	14913	15334	16121	128.98	
			HEF	80	16698	16936	17697	17744	116.92	
				90	13653	13843	14557	14557	116.92	
		20000LM	SEF	80	18501	19023	19545	20009	146.83	
				90	16123	16471	16935	17805	146.83	
			HEF	80	18442	18705	19545	19598	131.6	
				90	15079	15290	16078	16078	131.6	

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
FDL	L24	1500LM	SEF	80	1320	1358	1395	1428	10.85
				90	1151	1175	1208	1271	10.85
			HEF	80	1316	1335	1395	1399	10.39
				90	1076	1091	1147	1147	10.39
		2000LM	SEF	80	1822	1874	1925	1971	14.48
				90	1588	1622	1668	1754	14.48
			HEF	80	1816	1842	1925	1930	13.46
				90	1485	1506	1583	1583	13.46
		2500LM	SEF	80	2306	2371	2436	2494	18.41
				90	2010	2053	2111	2219	18.41
			HEF	80	2299	2332	2436	2443	17.42
				90	1880	1906	2004	2004	17.42
		3500LM	SEF	80	3102	3189	3277	3354	25.83
				90	2703	2761	2839	2985	25.83
			HEF	80	3092	3136	3277	3285	25.04
				90	2528	2563	2695	2695	25.04
		4500LM	SEF	80	4444	4570	4695	4807	38.7
				90	3873	3957	4068	4277	38.7
			HEF	80	4430	4493	4695	4708	34.8
				90	3622	3673	3862	3862	34.8
		5000LM	SEF	80	4722	4855	4988	5107	41.48
				90	4115	4204	4322	4544	41.48
			HEF	80	4707	4774	4988	5002	38.11
				90	3848	3902	4103	4103	38.11
	L36	2250LM	SEF	80	2126	2186	2246	2299	16.36
				90	1852	1892	1946	2046	16.36
			HEF	80	2119	2149	2246	2252	15.47
				90	1732	1757	1847	1847	15.47
		3000LM	SEF	80	2762	2840	2918	2988	20.8
				90	2407	2459	2529	2659	20.8
			HEF	80	2754	2793	2918	2926	19.98
				90	2251	2283	2401	2401	19.98
		3750LM	SEF	80	3536	3636	3735	3824	26.47
				90	3081	3148	3237	3403	26.47
			HEF	80	3525	3575	3735	3745	25.09
				90	2882	2922	3073	3073	25.09
		5250LM	SEF	80	4755	4890	5024	5143	39.9
				90	4144	4234	4353	4577	39.9
			HEF	80	4740	4808	5024	5037	34.3
				90	3876	3930	4132	4132	34.3
		6750LM	SEF	80	6072	6243	6415	6567	54.85
				90	5292	5406	5558	5844	54.85
			HEF	80	6053	6139	6415	6432	47.97
				90	4949	5018	5276	5276	47.97
		7500LM	SEF	80	6651	6839	7027	7194	62.6
				90	5796	5922	6088	6401	62.6
			HEF	80	6630	6725	7027	7046	54.02
				90	5421	5497	5780	5780	54.02

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
FDL	L48	3000LM	SEF	80	2662	2737	2812	2879	20.32
				90	2320	2370	2437	2562	20.32
			HEF	80	2654	2691	2812	2820	19.01
				90	2170	2200	2313	2313	19.01
		4000LM	SEF	80	3557	3657	3758	3847	27.58
				90	3100	3167	3256.	3423	27.58
			HEF	80	3546	3596	3758	3768	24.75
				90	2899	2939	3091	3091	24.75
		5000LM	SEF	80	4450	4576	4701	4813	34.8
				90	3878	3962	4073	4283	34.8
			HEF	80	4436	4499	4701	4714	31.77
				90	3627	3678	3867	3867	31.77
		7000LM	SEF	80	6446	6628	6810	6972	49.05
				90	5618	5739	5901	6204	49.05
			HEF	80	6426	6517	6810	6829	44.67
				90	5254	5327	5602	5602	44.67
		9000LM	SEF	80	8126	8355	8584	8788	63.99
				90	7081	7234	7438	7820	63.99
			HEF	80	8100	8215	8584	8607	58.58
				90	6623	6715	7061	7061	58.58
		10000LM	SEF	80	9081	9338	9594	9822	73.37
				90	7914	8085	8313	8740	73.37
			HEF	80	9052	9181	9594	9620	66.27
				90	7402	7505	7892	7892	66.27
	L96	6000LM	SEF	80	5240	5387	5535	5667	38.15
				90	4566	4665	4796	5042	38.15
			HEF	80	5223	5297	5535	5550	35.54
				90	4270	4330	4553	4553	35.54
		8000LM	SEF	80	6991	7189	7386	7561	52.32
				90	6093	6224	6400	6728	52.32
			HEF	80	6969	7068	7386	7406	48.5
				90	5698	5778	6075	6075	48.5
		10000LM	SEF	80	8649	8893	9137	9354	66.47
				90	7537	7700	7917	8323	66.47
			HEF	80	8621	8744	9137	9161	60.89
				90	7049	7147	7516	7516	60.89
		14000LM	SEF	80	12630	12986	13342	13659	94.78
				90	11006	11244	11561	12154	94.78
			HEF	80	12589	12768	13342	13378	85.96
				90	10293	10437	10975	10975	85.96
		18000LM	SEF	80	16276	16735	17194	17602	128.98
				90	14184	14490	14898	15663	128.98
			HEF	80	16223	16454	17194	17240	116.92
				90	13265	13450	14143	14143	116.92
		20000LM	SEF	80	17976	18483	18990	19441	146.83
				90	15665	16004	16454	17300	146.83
			HEF	80	17918	18173	18990	19041	131.6
				90	14651	14855	15621	15621	131.6

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
WDL	L24	1500LM	SEF	80	1377	1415	1454	1489	10.85	
				90	1200	1226	1260	1325	10.85	
			HEF	80	1372	1392	1454	1458	10.39	
				90	1122	1138	1196	1196	10.39	
		2000LM	SEF	80	1900	1953	2007	2055	14.48	
				90	1656	1691	1739	1828	14.48	
			HEF	80	1894	1921	2007	2012	13.46	
				90	1548	1570	1651	1651	13.46	
		2500LM	SEF	80	2405	2472	2540	2601	18.41	
				90	2095	2141	2201	2314	18.41	
			HEF	80	2397	2431	2540	2547	17.42	
				90	1960	1987	2090	2090	17.42	
		3500LM	SEF	80	3234	3325	3416	3497	25.83	
				90	2818	2879	2960	3112	25.83	
			HEF	80	3223	3269	3416	3426	25.04	
				90	2636	2672	2810	2810	25.04	
		4500LM	SEF	80	4634	4765	4895	5012	38.7	
				90	4038	4125	4242	4459	38.7	
			HEF	80	4619	4685	4895	4908	34.8	
				90	3777	3829	4027	4027	34.8	
		5000LM	SEF	80	4923	5062	5201	5324	41.48	
				90	4290	4383	4506	4738	41.48	
			HEF	80	4907	4977	5201	5215	38.11	
				90	4012	4068	4278	4278	38.11	
	L36	2250LM	SEF	80	2216	2279	2341	2397	16.36	
				90	1931	1973	2029	2133	16.36	
			HEF	80	2209	2241	2341	2348	15.47	
				90	1806	1832	1926	1926	15.47	
			3000LM	SEF	80	2880	2962	3043	3115	20.8
					90	2510	2564	2636	2772	20.8
				HEF	80	2871	2912	3043	3051	19.98
					90	2347	2380	2503	2503	19.98
			3750LM	SEF	80	3687	3791	3895	3987	26.47
					90	3213	3282	3375	3548	26.47
				HEF	80	3675	3727	3895	3905	25.09
					90	3005	3047	3204	3204	25.09
		5250LM	SEF	80	4958	5098	5238	5362	39.9	
				90	4321	4414	4539	4772	39.9	
			HEF	80	4942	5013	5238	5252	34.3	
				90	4041	4097	4309	4309	34.3	
		6750LM	SEF	80	6331	6510	6688	6847	54.85	
				90	5517	5636	5795	6093	54.85	
			HEF	80	6311	6401	6688	6706	47.97	
				90	5160	5232	5502	5502	47.97	
		7500LM	SEF	80	6935	7131	7326	7500	62.6	
				90	6044	6174	6348	6674	62.6	
			HEF	80	6913	7011	7326	7346	54.02	
				90	5652	5731	6027	6027	54.02	

CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage	
					Color Temperature					
					3000K	3500K	4000K	5000K		
WDL	L48	3000LM	SEF	80	2776	2854	2932	3002	20.32	
				90	2419	2471	2541	2671	20.32	
			HEF	80	2767	2806	2932	2940	19.01	
				90	2262	2294	2412	2412	19.01	
		4000LM	SEF	80	3709	3813	3918	4011	27.58	
				90	3232	3302	3395	3569	27.58	
			HEF	80	3697	3749	3918	3929	24.75	
				90	3023	3065	3223	3223	24.75	
		5000LM	SEF	80	4640	4771	4902	5018	34.8	
				90	4044	4131	4247	4465	34.8	
			HEF	80	4625	4691	4902	4915	31.77	
				90	3782	3834	4032	4032	31.77	
		7000LM	SEF	80	6721	6911	7101	7269	49.05	
				90	5857	5984	6152	6469	49.05	
			HEF	80	6700	6795	7101	7120	44.67	
				90	5478	5554	5841	5841	44.67	
		9000LM	SEF	80	8472	8711	8950	9163	63.99	
				90	7383	7543	7755	8154	63.99	
			HEF	80	8445	8565	8950	8974	58.58	
				90	6905	7001	7362	7362	58.58	
		10000LM	SEF	80	9469	9736	10003	10240	73.37	
				90	8252	8430	8667	9112	73.37	
			HEF	80	9438	9573	10003	10030	66.27	
				90	7717	7825	8228	8228	66.27	
	L96	6000LM	SEF	80	5463	5617	5771	5908	38.15	
				90	4761	4864	5001	5258	38.15	
			HEF	80	5445	5523	5771	5787	35.54	
				90	4452	4515	4747	4747	35.54	
			8000LM	SEF	80	7289	7495	7701	7884	52.32
					90	6353	6490	6672	7015	52.32
		HEF		80	7266	7370	7701	7722	48.5	
				90	5941	6024	6334	6334	48.5	
		10000LM	SEF	80	9017	9272	9526	9752	66.47	
				90	7858	8028	8254	8678	66.47	
			HEF	80	8988	9117	9526	9552	60.89	
				90	7349	7452	7836	7836	60.89	
		14000LM	SEF	80	13168	13540	13911	14241	94.78	
				90	11476	11723	12054	12673	94.78	
			HEF	80	13126	13313	13911	13949	85.96	
				90	10732	10882	11443	11443	85.96	
		18000LM	SEF	80	16970	17448	17927	18353	128.98	
				90	14788	15108	15533	16331	128.98	
			HEF	80	16915	17156	17927	17975	116.92	
				90	13831	14024	14746	14746	116.92	
		20000LM	SEF	80	18742	19271	19800	20270	146.83	
				90	16333	16686	17156	18037	146.83	
			HEF	80	18682	18948	19800	19853	131.6	
				90	15276	15489	16287	16287	131.6	

RRL - RELOC®-Ready Luminaire

- RRL connectors can be used with Quick-Flex®, System 820 and OnePass® systems.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.



ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RRLA

Series	Wiring instructions
RRL RELOC®-ready luminaire	<p>A Hot conductor wired to position #1 (phase A)</p> <p>B Hot conductor wired to position #2 (phase B)</p> <p>C Hot conductor wired to position #3 (phase C) ¹</p>

Compatible RELOC® Cables for Industrial Luminaires (ordered and shipped separately)



Notes

¹ C, ABE, and C12S options are not used with Quick-Flex QFC, QSFC, QPT, and QD.

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires	Branch circuits	Dimming	Ground
PLR	(blank) Not required for 22	<u>Circuits to which ballast is connected</u>	LV Low-voltage dimming	G Ground
PLR22	1 Black	(blank) Not required for 22		
	2 Black and red	<p>A Black wire</p> <p>B Red wire</p>		
		<p><u>Emergency circuit connected</u></p> <p>(blank) No emergency circuit</p> <p>ELA Emergency circuit wired to black wire</p> <p>ELB Emergency circuit wired to red wire</p>		

Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit (PLR 22)
- Multiple circuit with night-lights located along row as desired

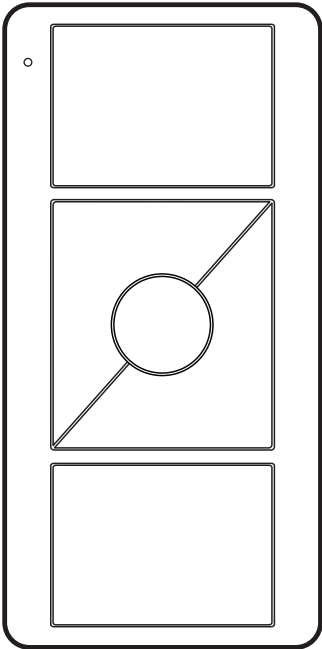
Pico® Wireless Control

(for North, Central, and South America)

The Pico® wireless control is a flexible and easy to use device that allows the user to control Lutron® wireless load-control devices from anywhere in the space. This battery-operated control requires no external power or communication wiring.

Features

- Provides control for the following:
 - Maestro Wireless® controls
 - PowPak® Modules
 - Sivoia® QS wireless systems
 - Serena® RF remote control shades
 - Energi Savr Node™ and Quantum® systems, through the use of a QS sensor module (QSM)
 - GRAFIK Eye® QS wireless systems
 - RadioRA® 2 systems
 - HomeWorks® QS wireless systems
- Control available in a variety of button marking options.
- Easy reconfiguration for use as:
 - Handheld remote
 - Wall-mount control (with or without faceplate; faceplate adapter kit sold separately)
 - Car visor control (car visor clip sold separately)
 - A table top control (table top pedestal sold separately).
- Battery-powered. Requires no wiring.
- 10 year battery life (one CR2032 battery included).
- Can provide control of blinds, curtains or lighting devices within a 30 ft (9 m) range.



Pico® wireless control

Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

Specifications

Regulatory Approvals

- Lutron® Quality Systems registered to ISO 9001:2008.
- FCC Certified (U.S.A.)
 - IC Certified (Canada)
 - COFETEL Certified (Mexico)
 - SUTEL Certified (Costa Rica)

Power

- Operating Voltage 3 V \equiv
- (1) CR2032 Battery (included)

System Communication and Capacity

- Communicates using Radio Frequency (RF) at 431 MHz to 437 MHz.
- Thousands of system addresses prevent interference between systems.
- Can be assigned to control blinds, curtains or lighting devices that are within a 30 ft (9 m) range.
- Can be configured as a scene or zone control in GRAFIK Eye® QS wireless applications.

Mounting Considerations

- Mounting of any RF devices on or in close proximity to a metal surface will drastically reduce the effective range of radio signal transmission or reception.
- All RF devices must be mounted on non-conductive materials to ensure proper performance.

Environment

- Ambient operating temperature:
32 °F to 140 °F (0 °C to 60 °C)
- Maximum 90% non-condensing relative humidity
- Indoor use only

Warranty

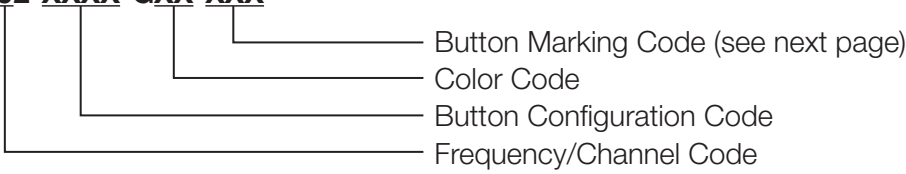
- 1 Year Limited Warranty
For additional Warranty information, please visit
http://www.lutron.com/TechnicalDocumentLibrary/369-119_Wallbox_Warranty.pdf

Job Name: <input type="text"/>	Model Numbers: <input type="text"/>	
Job Number: <input type="text"/>	<input type="text"/>	<input type="text"/>

Model Number

For order quantities of 96 pieces or greater of the same model number, bulk packaging may be available. Mounting hardware is not included with bulk packaging. Please contact Lutron® Customer Service for availability at 1.888.LUTRON1 (1.888.588.7661).

PJ2-XXXX-GXX-XXX



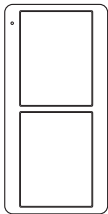
Frequency/Channel Codes:

Code

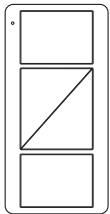
J — 431.0 - 437.0 MHz

Button Configuration Codes:

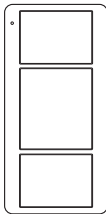
Button Configuration	Code
2 Button	2B
2 Button with Raise/Lower	2BRL
3 Button	3B
3 Button with Raise/Lower	3BRL



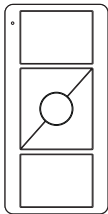
2 Button
(2B)



2 Button with
Raise/Lower
(2BRL)



3 Button
(3B)



3 Button with
Raise/Lower
(3BRL)

Color Codes:

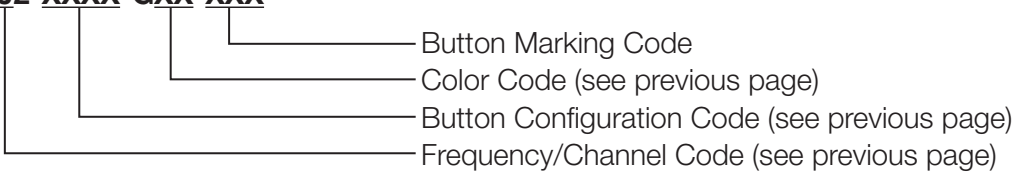
Gloss Color	Code
White	WH
Black	BL
Ivory	IV
Light Almond	LA
White / Gray	WG (Top and Raise buttons are White; Preset, Lower, and Bottom buttons are Gray)

Continued on next page...

Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

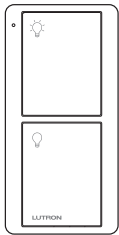
Model Number *(continued)*

PJ2-XXXX-GXX-XXX

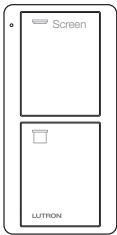


Button Marking Codes:

2 Button

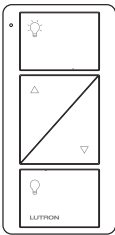


Light
(L01)

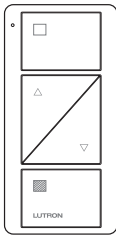


Screen
(S08)

2 Button with Raise/Lower

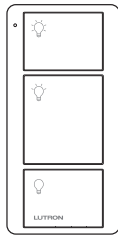


Light
(L01)



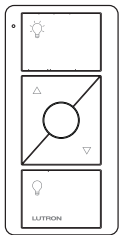
Shade (icons)
(S01)

3 Button

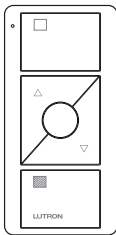


Light
(L01)

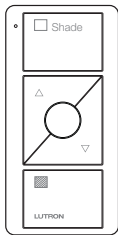
3 Button with Raise/Lower



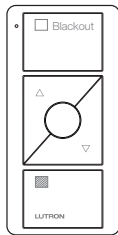
Light
(L01)



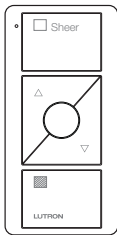
Shade (icons)
(S01)



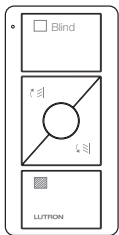
Shade (text)
(S02)



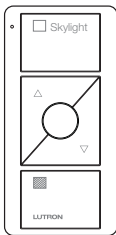
Blackout
(S03)



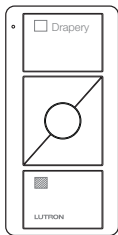
Sheer
(S04)



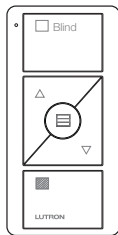
Blind
(S05)



Skylight
(S06)



Drapery
(S07)



Blind
(S09)

Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

Operation

Indicator LED

Flashes to indicate a button press or when unit is in programming mode.

Preset Button
(3B & 3BRL models only)

Tap once:

Devices go to preset levels/positions. Activates scene 16 when used in scene mode with GRAFIK Eye® QS wireless applications.

Press and hold:

To save new preset level or position, press and hold for 6 seconds.

Top Button

Lights brighten to full intensity and shades/ draperies go to open limit. Activates scene 1 when used in scene mode with GRAFIK Eye® QS wireless applications.

Raise Button (2BRL & 3BRL models only)

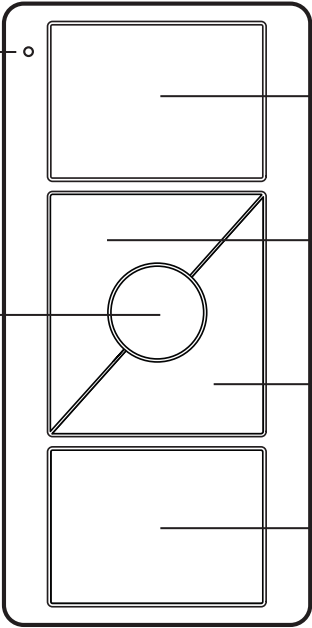
Lights increase in intensity and shades/ draperies move towards open limit.

Lower Button (2BRL & 3BRL models only)

Lights decrease in intensity and shades/ draperies move towards close limit.

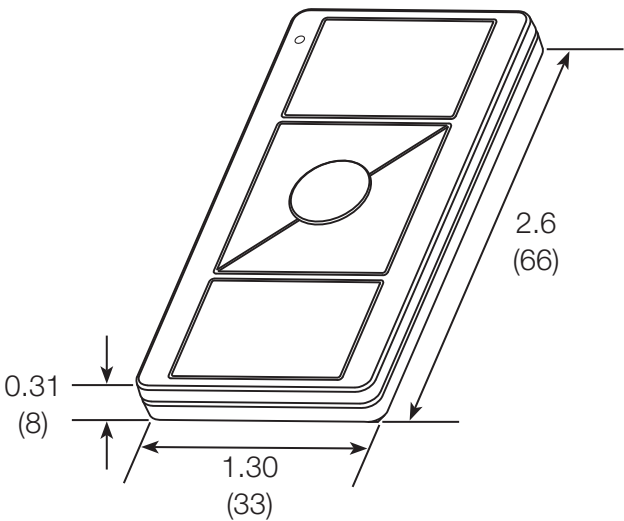
Bottom Button

Lights dim to off and shades/draperies go to close limit. Activates “OFF” scene when used in scene mode with GRAFIK Eye® QS wireless applications.



Dimensions

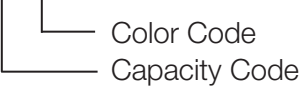
Measurements shown as: in (mm)



Pico® Pedestal Model Number

Pedestals sold separately. Available in gloss finish only.

L-PEDX-XX



Capacity Codes:

Capacity	Code
Single	1
Double	2
Triple	3
Quadruple	4

Color Codes:

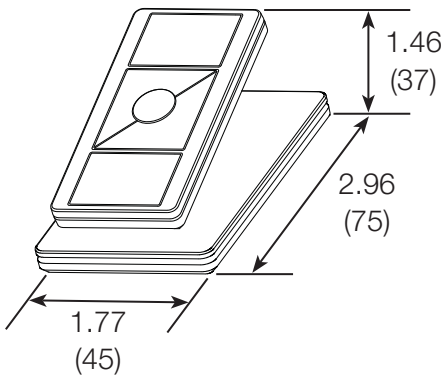
Gloss Color	Code
White	WH
Black	BL

Dimensions

Measurements shown as: in (mm)

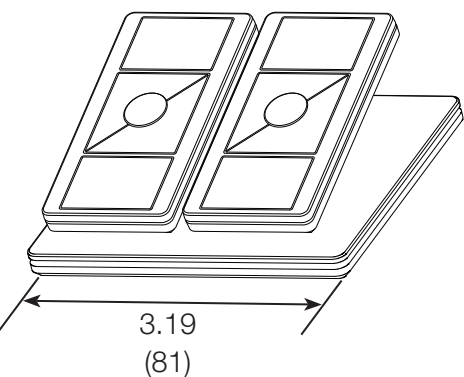
Single Pedestal

Pedestals sold separately.



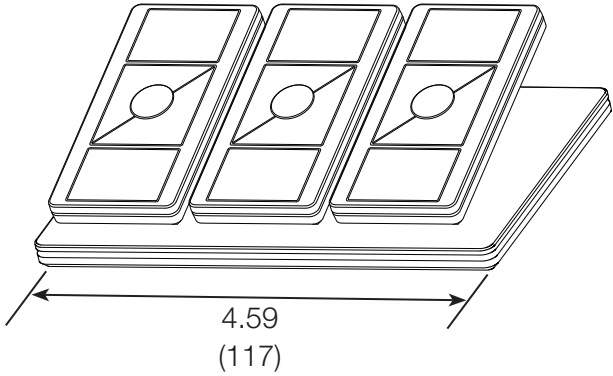
Double Pedestal

Pedestals sold separately.



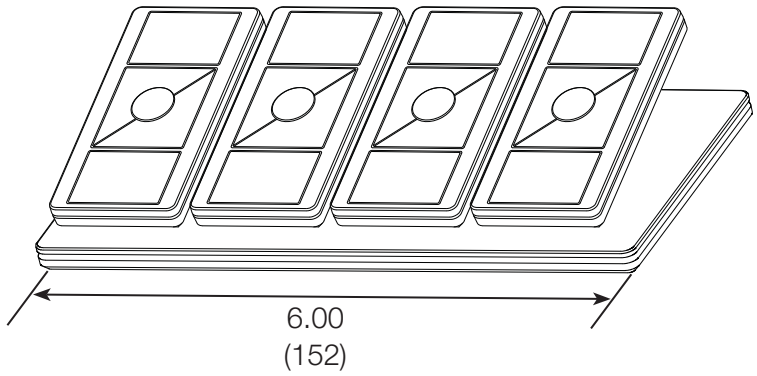
Triple Pedestal

Pedestals sold separately.



Quadruple Pedestal

Pedestals sold separately.

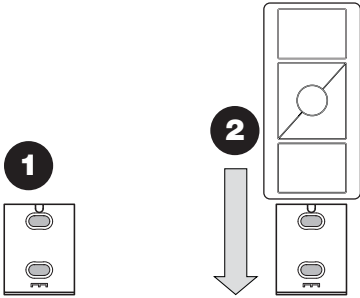


Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

Mounting Options

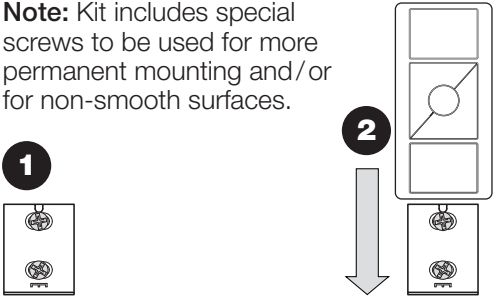
Stand Alone Mounting

Adhesive-Mount
(included with Pico®)



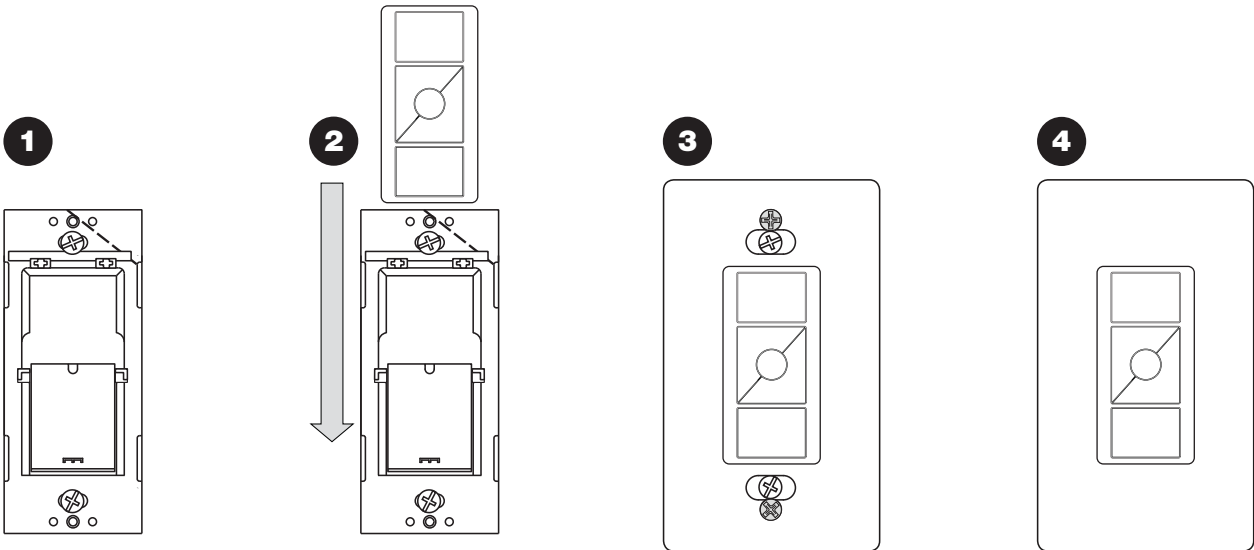
Screw-Mount (sold separately)
Model PICO-SM-KIT

Note: Kit includes special screws to be used for more permanent mounting and/or for non-smooth surfaces.



Wallplate Adapter

Model PICO-WBX-ADAPT
(sold separately)



*Wallplate adapter / wallplate sold separately

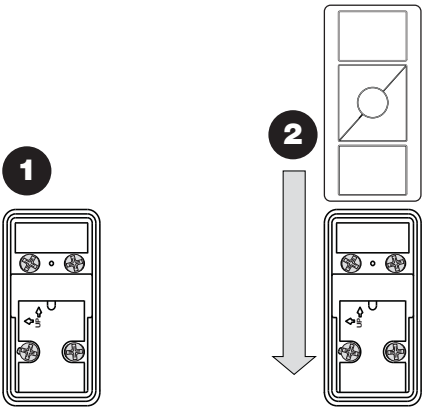
Continued on next page...

Job Name:	Model Numbers:	
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Job Number:	<input type="text"/>	<input type="text"/>

Mounting Options *(continued)*

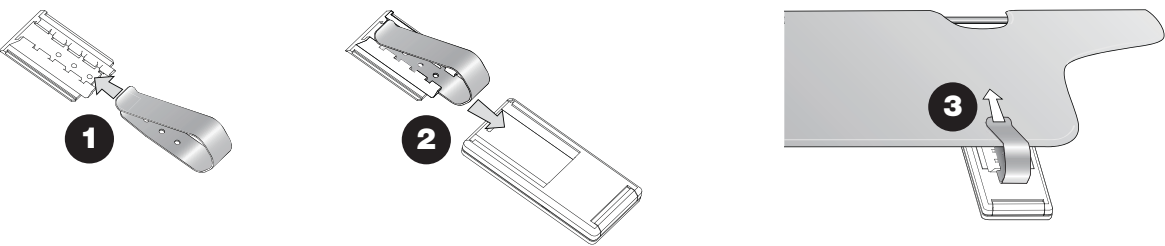
Mounting to Metal Surfaces

Coming Soon (sold separately)



Car Visor

Model PICO-CARVISOR-CL (sold separately)



Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

Radio Powr Savr Wireless Occupancy/Vacancy Wall-Mount Sensor

Lutron Radio Powr Savr wall-mounted occupancy and vacancy sensors are wireless, battery-powered, passive infrared (PIR) sensors that automatically control lights via RF communication to compatible dimming or switching devices. These sensors detect the heat from people moving within an area to determine when the space is occupied. The sensors then wirelessly transmit the appropriate commands to the associated dimming or switching devices to turn the lights on or off automatically. They combine both convenience and exceptional energy savings along with ease of installation.

Features

- Wireless occupancy/vacancy sensor has 2 settings available: Auto-On/Auto-Off, and Manual-On/Auto-Off
- Vacancy model meets CA Title 24 requirements
- Passive infrared motion detection with exclusive Lutron XCT Technology for fine motion detection
- 180° field of view model:
 - Minor motion = 1500 ft² (139.4 m²)
 - Major motion = 3000 ft² (278.7 m²)
- 90° field of view model:
 - Minor motion = 1225 ft² (113.8 m²)
 - Major motion = 2500 ft² (232.3 m²)
- Hallway model with long, narrow field of view:
 - Major motion = coverage of up to 150 ft (45.7 m)
- Simple and intuitive adjustments available for Timeout, Activity, and Auto-On settings
- Accessible test buttons make setup easy
- Lens illuminates during test mode to verify ideal locations
- Multiple sensors can be added for extended coverage; refer to product specification submittal of receiving device to determine system limits
- 10-year battery life design
- RoHS compliant

Compatible RF Devices

- For use with Lutron products only
- Supports simultaneous association with multiple Lutron Clear Connect devices and/or systems*

* Contact Lutron Customer Service at www.lutron.com for frequency/channel code compatibility with your particular geographic region, and for integrating with other Lutron® lighting and shading products.



Models Available

- LRF - LB-P-WH
 - Coverage Type
 - Sensor Type
 - Frequency/Channel Code

Example:

LRF2-VHLB-P-WH

(434 MHz White Hallway Vacancy Sensor)

Frequency/Channel Code

2 = 431.0 – 437.0 MHz (US, Canada, Mexico, Brazil)*

3 = 868.125 – 869.850 MHz (Europe, UAE)

4 = 868.125 – 868.475 MHz (China, Singapore)

5 = 865.5 – 866.5 MHz (India)

7 = 433.0 – 433.7 MHz (Hong Kong, Macau)

Sensor Type

O = Occupancy/Vacancy (Auto-On/Auto-Off)

V = Vacancy (Manual-On/Auto-Off)**

Coverage Type

H = Hallway

K = 90° Corner-Mount

W = 180° Wall-Mount

* BAA compliant models available for LRF2 configurations. Add a “U” prefix to your chosen model number. Example: **ULRF2-OWLB-P**

** Vacancy sensor type for LRF2 models only

Job Name: <input type="text"/>	Model Numbers: <input type="text"/>	
Job Number: <input type="text"/>	<input type="text"/>	<input type="text"/>

Specifications

Regulatory

- Lutron Quality Systems Registered to ISO 9001:2008

Regulatory Approvals

LRF2-

- cULus® listed
- FCC certified
- IC certified
- COFETEL certified
- ANATEL certified
- SUTEL certified
- Meets CA (U.S.A.) Energy Commission Title 24 requirements

LRF3-

- CE marked (European Union)
- TRA type approved (United Arab Emirates)
- CITC type approved (Saudi Arabia)

LRF4-

- SRRC type approved (Mainland China)
- iDA registered (Singapore)

LRF5-

- WPC type (India)

Power/Performance

- Operating voltage: 3 V==
- Operating current: 14 µA nominal
- Requires one CR 123 lithium battery
- 10-year battery-life design
- Non-volatile memory (saved changes are stored during power loss)

Environment

- Temperature: 32 °F to 104 °F (0 °C to 40 °C)
- For indoor use only
- Relative humidity: less than 90% non-condensing

Note: For unconditioned environments where the air temperature may approach the temperature of the occupants, additional sensors will be needed to achieve the same coverage. This is true of any sensor that relies exclusively on passive infrared technology.

Warranty

- 5-Year Limited Warranty. For additional Warranty information, please visit www.lutron.com/TechnicalDocumentLibrary/Sensor_Warranty.pdf

RF Range

- Distance between local load controls and sensor should not exceed 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls.

Sensor Coverage Test

- Dedicated test button
- Lens illuminates orange in response to motion during test mode

Wireless Communication Test

- Dedicated test button
- Turn associated loads on and off

Timeout Options

- 1 minute*
- 5 minutes
- 15 minutes (default setting)
- 30 minutes

Auto-On Options (Occupancy Versions Only)

- **Enabled:** Sensor turns lights ON and OFF automatically (default setting)
- **Disabled**:** Lights must be turned ON manually from dimming or switching device. Sensor turns lights OFF automatically

Sensitivity Options

- **Low Activity:** ⌘ (default setting)
- **Medium Activity:** ⌘
- **High Activity:** ⌘

* Intended for use in high-activity, briefly-occupied areas only

** There is a 15-second grace period that begins when the lights are automatically turned off, during which the lights will automatically turn back on in response to motion. This grace period is provided as a safety and convenience feature in the event the lights turn off while the room is still occupied, so that the user does not need to manually turn the lights back on. After 15 seconds, the grace period expires and the lights must be manually turned on.

Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>


Installation Overview

Sensor Setup

- Sensor setup is available as a service by Lutron. For more information, please see the **Sensor Layout and Tuning** specification submittal (P/N 3601235) at www.lutron.com.

Sensor Placement

- The mounting height of the sensor should be between 6 ft and 8 ft (1.6 m and 2.4 m).
- For smaller rooms less than 12 ft × 12 ft (3.7 m × 3.7 m), detection may be improved by mounting the sensor at 6 ft (1.8 m) from the floor.
- The ability to detect motion requires that the sensor have line-of-sight of all room occupants. The sensor must have an unobstructed view of the room. **DO NOT** mount behind or near tall cabinets, shelves, hanging fixtures, etc. The sensor cannot detect occupants through glass objects such as patio or shower doors.
- Hot objects and moving air currents can affect the performance of the sensor. To ensure proper operation, the sensor should be mounted at least 4 ft (1.2 m) away from light bulbs and HVAC vents.
- The performance of the sensor depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the sensor’s ability to detect occupants.
- Distance between local load controls and sensor should not exceed 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls.

 SPECIFICATION SUBMITTAL

Page

3

Job Name:	Model Numbers:	
<div></div>	<div></div>	<div></div>
Job Number:	<div></div>	<div></div>

Mounting

- 180° and hallway sensors mount directly to wall with mounting bracket (included). See Figure A.
- 90° sensors mount directly in corner or on wall offset away from corner with mounting bracket (included). See Figure B.
 - Temporary mounting is recommended to test sensor coverage and wireless communication before permanently installing the sensor.
 - Temporary mounting: A 3M™ Command™ adhesive strip is provided for temporarily mounting and testing the sensor. This strip is designed for easy, damage-free removal and is not reusable.
 - Permanent mounting: Mounting bracket, screws, and anchors are provided to mount sensor.
- The Flexible Mounting Armature, LRF-ARM-WH (purchased separately), allows sensors to be mounted at greater heights on a ceiling, wall, or other flat surface.
 - The ball-and-clamp design expands the coverage area for Lutron standard wall-, corner-, or hall-mount sensors. See Figure C.
 - Common mounting areas: warehouse aisles, loading docks, long hallways.

Figure A. 180° Wall-Mount Sensor and Hallway Sensor

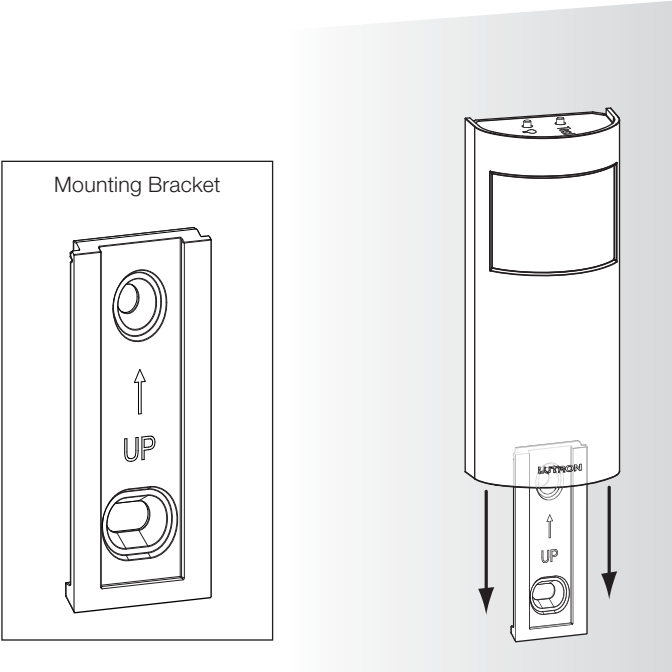


Figure B. 90° Corner-Mount Sensor

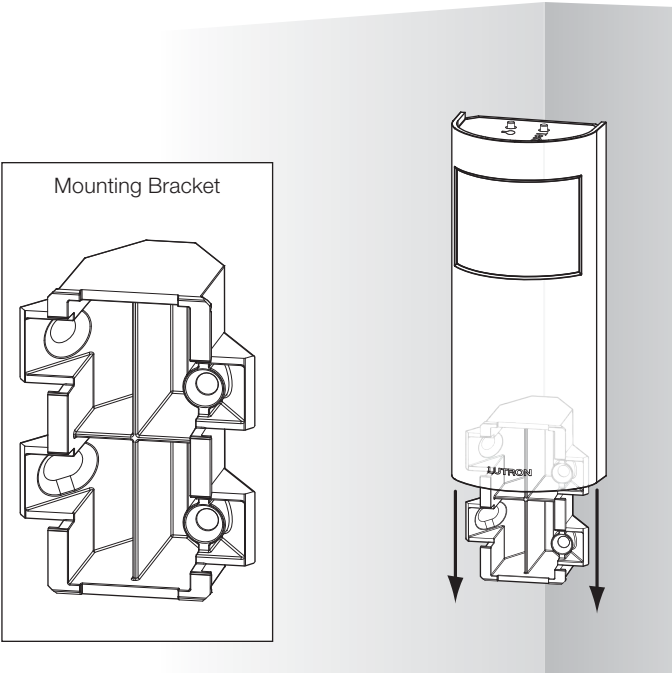
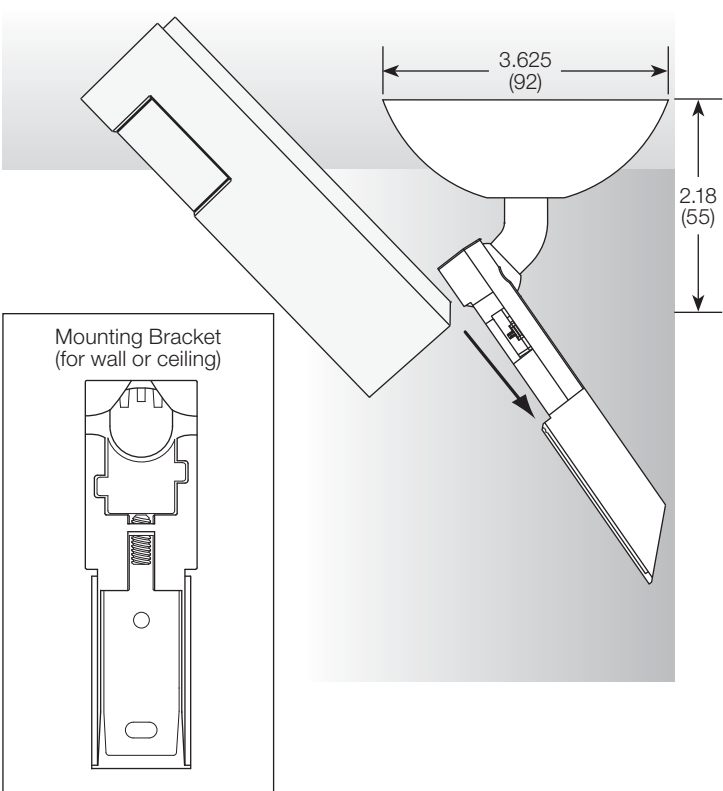
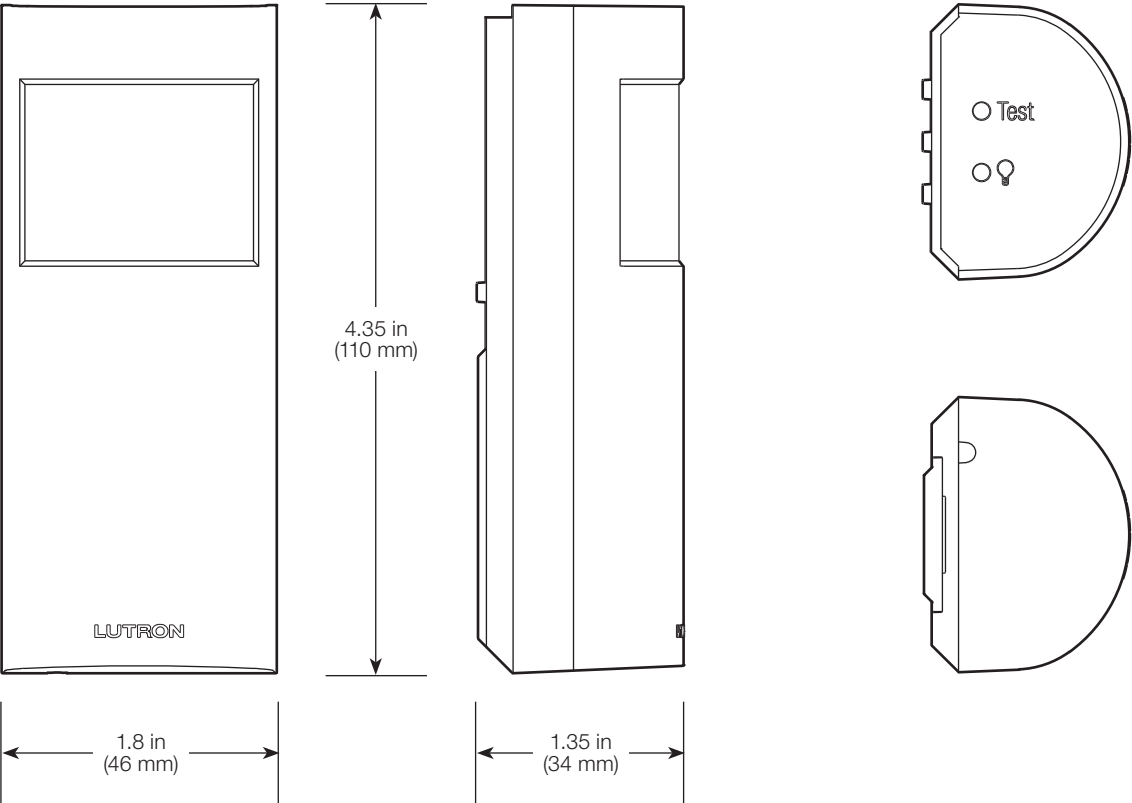


Figure C. Flexible Mounting Armature
Measurements are: in (mm)



Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

Dimensions



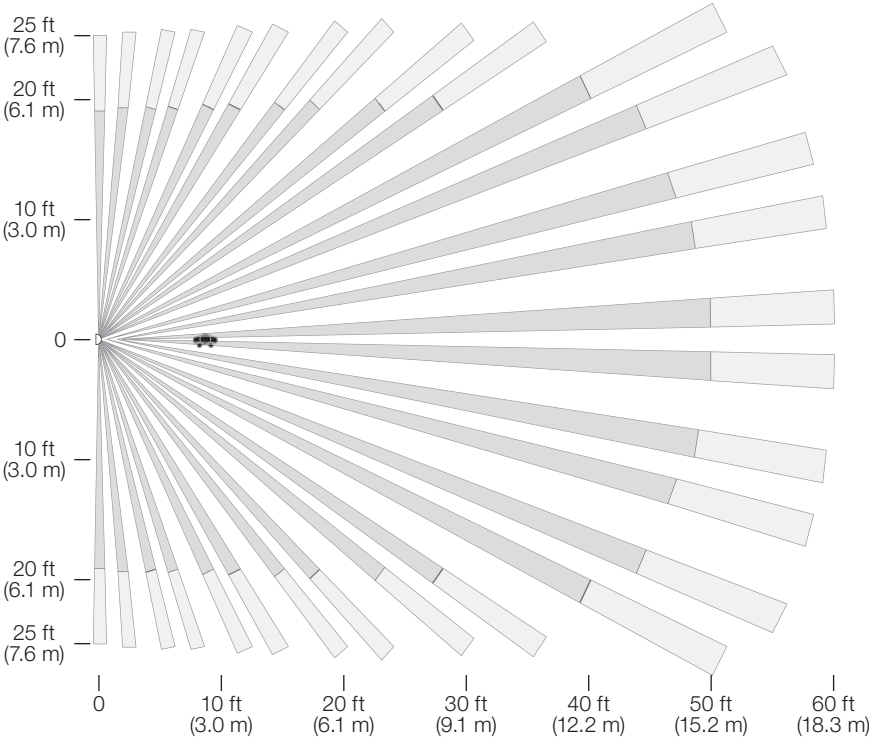
Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

Coverage Diagrams

180° Wall-Mount Sensors

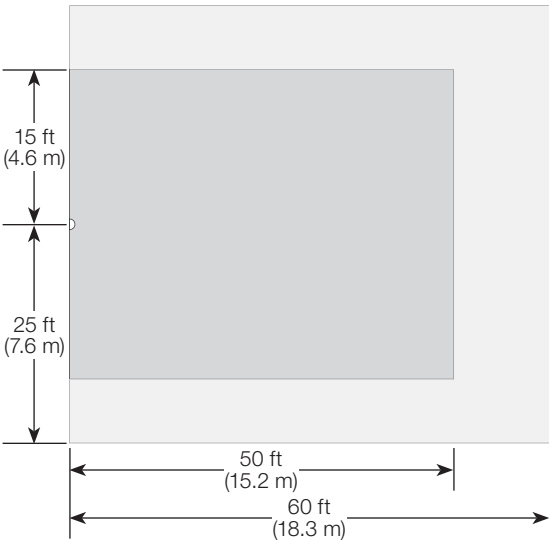
Models: LRFX-OWLB-P-WH and LRFX-VWLB-P-WH

Horizontal Beam Diagram

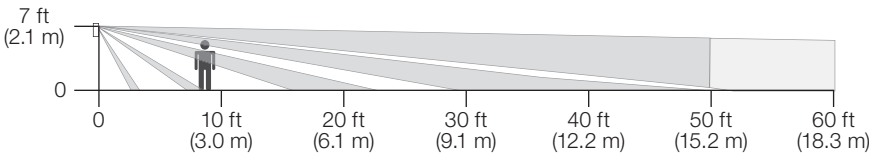


Tested Coverage Area

Major motion coverage: 3000 ft² (278.7 m²)
Minor motion coverage: 1500 ft² (139.4 m²)
Compliant to NEMA WD7 test grid (shown below)



Vertical Beam Diagram*



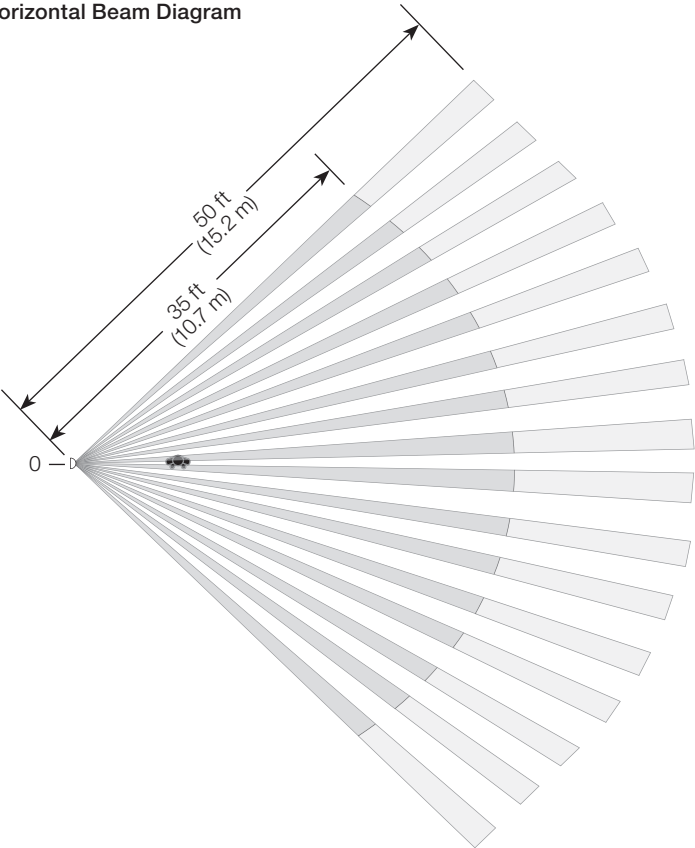
* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.6 m and 2.4 m).

Coverage Diagrams

90° Corner-Mount Sensors

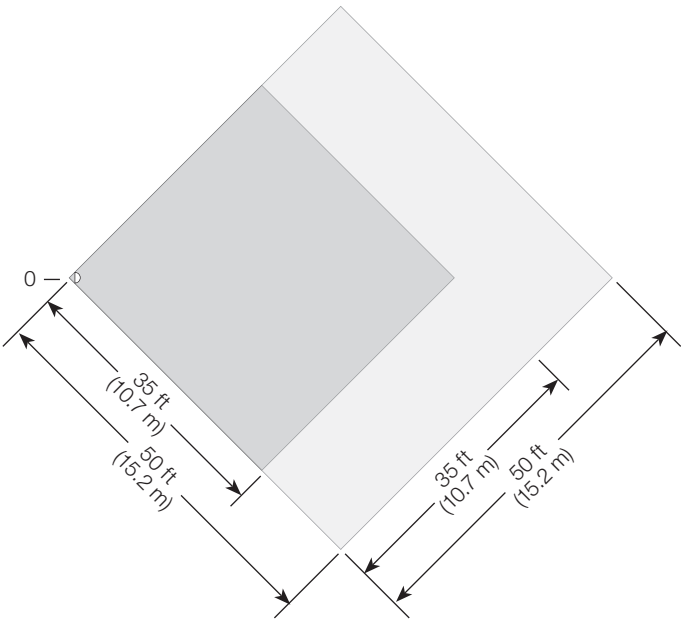
Models: LRFX-OKLB-P-WH and LRFX-VKLB-P-WH

Horizontal Beam Diagram

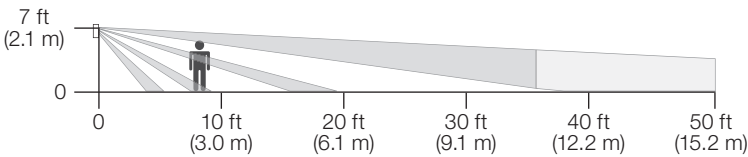


Tested Coverage Area

- Major motion coverage: 2500 ft² (232.3 m²)
 - Minor motion coverage: 1225 ft² (113.8 m²)
- Compliant to NEMA WD7 test grid (shown below)



Vertical Beam Diagram*



* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.6 m and 2.4 m).

Coverage Diagrams

Hallway Sensors

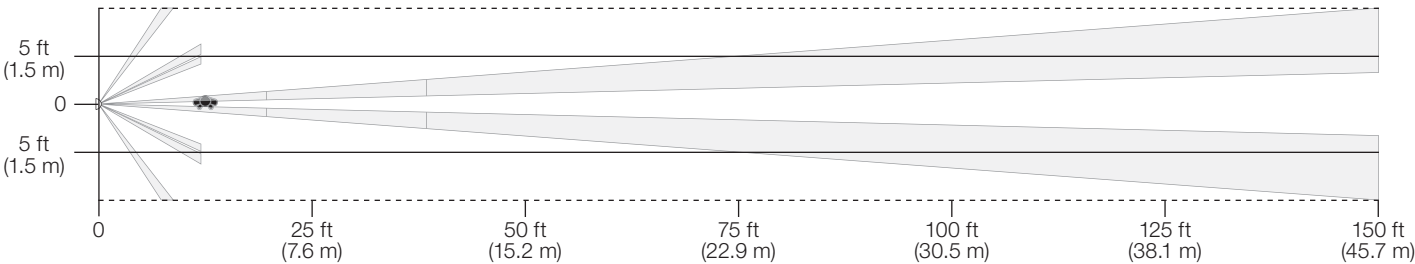
Models: LRFX-OHLB-P-WH and LRFX-VHLB-P-WH

- Designed to mount at the end of a hallway with a clear view down the length of a hall.
- Detection at longer distances is best when motion occurs at right angles to the sensor.
- Multiple sensors can be used to extend coverage.

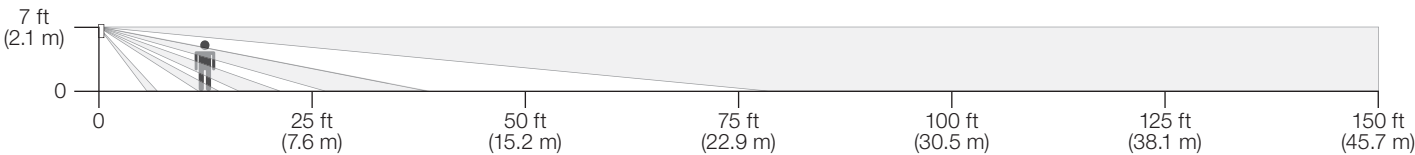
Maximum Recommended Hallway Length

Hall Width	Hall Length
6 ft (1.8 m) or less	50 ft (15.2 m)
8 ft (2.4 m) or less	100 ft (30.5 m)
10 ft (3.0 m) or more	150 ft (45.7 m)

Top View



Side View*



* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.6 m and 2.4 m) and centered within hallway.

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Radio Powr Savr and XCT are trademarks of Lutron Electronics Co., Inc.
3M and Command are trademarks of 3M Company.

SPECIFICATION SUBMITTAL

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Job Name:	Model Numbers:	
Job Number:		

FEATURES & SPECIFICATIONS

INTENDED USE — General illumination for rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

CONSTRUCTION — Housing: 16-gauge cold-rolled steel.

Door: 16-gauge cold-rolled steel door, secured by either stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (four of each included).

Finish: Post-painted after fabrication in white polyester powder coat for high reflectance, durability and corrosion resistance.

OPTICS — Drop dish clear prismatic, UV-stabilized polycarbonate lens, nominal thickness .125" (1/8").

ELECTRICAL — Ballast: Electronic, Class P, High Power Factor multi-volt, THD <10% with a starting temperature of 0°F. Exceptions are 9TT and 13TT Electromagnetic ballasts, 120V only.

Socket: Horizontally mounted thermoplastic socket(s).

Thermal Protector: Provided as a safety device to ensure proper lamp installation and as an insulation detector.

Lamp: 35K lamp(s) included unless specified L/LP.

INSTALLATION — Separate yoke mounting frame provided with adjustable brackets for use with C-channel bar hangers, which are not included.

LISTINGS — UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient temperatures and wet locations in covered ceiling applications only.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

Note: Specifications subject to change without notice.

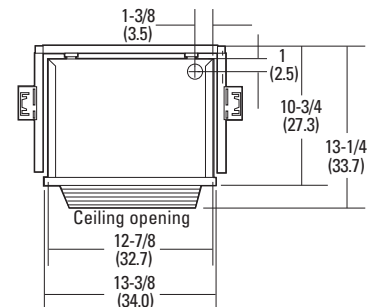
Catalog Number
Notes
Type



Rough Service Fixture

VRR

COMPACT FLUORESCENT
Ceiling/Wall Mount



All dimensions are based on 1/2 inch ceiling thickness.
All dimensions are inches (centimeters) unless otherwise noted.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: VRR 2/32TRT 120 NL LPI

VRR							
Series	Wattage	Lens	Voltage	Ballast	Options	Lamp ¹²	
VRR	2/9TT Two 9W twin-tube lamps ¹	(blank) Clear prismatic	120	ADEZ Advance Mark X electronic dimming ballast ^{5,6}	<u>Shipped installed in fixture</u>	LPI Lamp(s) included (standard)	
	2/13TT Two 13W twin-tube lamps ¹	WPP White polycarbonate	277		ALDF Aluminum door frame	L/LP Less lamp(s)	
	2/13DTT Two 13W twin-tube lamp	DHL Drop Holophane glass ³	347	ECOS EcoSystem electronic dimming ballast ^{5,7,8}	DS Dual switching ⁹		
	2/18DTT Two 18W twin-tube lamp	FHL Flat Holophane glass ³	MVOLT ⁴		EC Emergency circuit (Incandescent: 25W Max., DC Bayonet base) ¹⁰		
	2/26DTT Two 26W twin-tube lamp ²				GLR Internal fast-blow fusing ⁵		
	26TRT One 26W triple-tube lamp				GMF Internal slow-blow fusing ⁵		
	2/26TRT Two 26W triple-tube lamp ²				NL Night-light (incandescent - 6W Max - 6S6DC base) ^{1,10}		
	32TRT One 32W triple-tube lamp				IP64 Dust-tight and protected against water splashing in any direction ¹¹		
	2/32TRT Two 32W triple-tube lamp ²				CSA CSA Certified		
	42TRT One 42W triple-tube lamp						
	2/42TRT Two 42W triple-tube lamp ²						

Notes

- 120V only.
- Not available with the FHL flat Holophane lens option.
- Glass lenses must be ordered with the ALDF option.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120 and 277 volt.
- Must specify voltage. Not available with MVOLT.
- Available with 26DTT, and most TRT lamps.
- Not available with 42TRT.
- Available with 18DTT, 26DTT and most TRT lamps.
- Available in 2-lamp version only.
- Maximum wattage lamp provided.
- Available with glass lens only.
- Lamp(s) included unless specified L/LP.

Accessories: Order as separate catalog number.

RK1 T20BIT	Hex-base driver bit, Torx T20, for tamper-resistant screws with center reject pin
RK1 T20DRV	Torx T20 screwdriver for use with tamper-resistant screws with center reject pin
PF	Plaster frame



WST LED

Architectural Wall Sconce



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

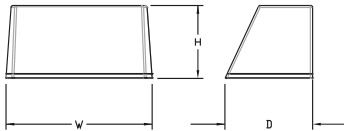
Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)

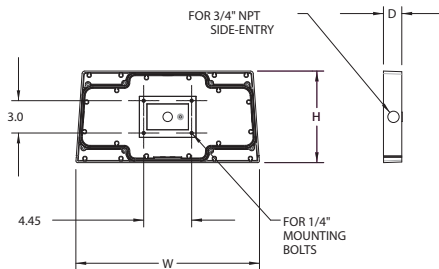


Optional Back Box (PBBW)

Height: 8.49"
(21.56 cm)

Width: 17.01"
(43.21 cm)

Depth: 1.70"
(4.32 cm)

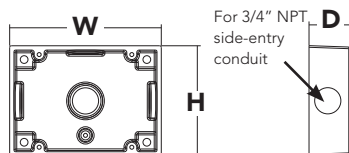


Optional Back Box (BBW)

Height: 4"
(10.2 cm)

Width: 5-1/2"
(14.0 cm)

Depth: 1-1/2"
(3.8 cm)



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

See ordering tree for details.

A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonia.com
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WST-LED
Rev. 09/06/19

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED						
Series	Performance Package	Color temperature	Distribution	Voltage		Mounting
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw	MVOLT ¹	277 ²	Shipped included (blank) Surface mounting bracket Shipped separately BBW Surface-mounted back box ³ PBBW Premium surface-mounted back box ^{3,4}
	P2 3,000 Lumen package	30K 3000 K	VW Visual comfort wide	120 ²	347 ²	
	P3 6,000 Lumen package	40K 4000 K		208 ²	480 ²	
		50K 5000 K		240 ²		

Options		Finish (required)
NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights ^{5,6}	DDBXD Dark bronze
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights ^{5,6}	DBLXD Black
PE	Photoelectric cell, button type ⁷	DNAXD Natural aluminum
PER	NEMA twist-lock receptacle only (controls ordered separate) ⁸	DWHXD White
PER5	Five-wire receptacle only (controls ordered separate) ⁸	DSSXD Sandstone
PER7	Seven-wire receptacle only (controls ordered separate) ⁸	DDBTXD Textured dark bronze
PIR	Motion/Ambient Light Sensor, 8'-15' mounting height ^{5,6}	DBLBXD Textured black
PIR1FC3V	Motion/ambient sensor, 8'-15' mounting height, ambient sensor enabled at 1fc ^{5,6}	DNATXD Textured natural aluminum
PIRH	180° motion/ambient light sensor, 15'-30' mounting height ^{5,6}	DWHGXD Textured white
PIRH1FC3V	Motion/ambient sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ^{5,6}	DSSTXD Textured sandstone
SF	Single fuse (120, 277, 347V) ²	
DF	Double fuse (208, 240, 480V) ²	
DS	Dual switching ⁹	
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) ¹⁰	
E7WH	Emergency battery backup, Non CEC compliant (7W) ¹¹	
E7WC	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{11,12}	
E7WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{11,13}	
E20WH	Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ¹¹	
E20WC	Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{11,12}	
E23WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{11,12,14}	
LCE	Left side conduit entry ¹⁵	
RCE	Right side conduit entry ¹⁵	
Shipped separately		
RBPW	Retrofit back plate ³	
VG	Vandal guard ¹⁵	
WG	Wire guard ¹⁵	

Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTXD U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Not available with VG or WG. See PER Table.
- Reference Motion Sensor table.
- Need to specify 120, 208, 240 or 277 voltage.

- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Not available with Emergency options, PE or PER options.
- DMG option not available with standalone or networked sensors/controls.
- Not available with 347/480V.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.

Emergency Battery Operation

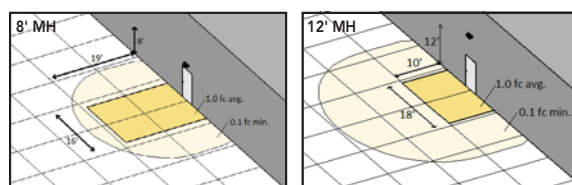
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#)

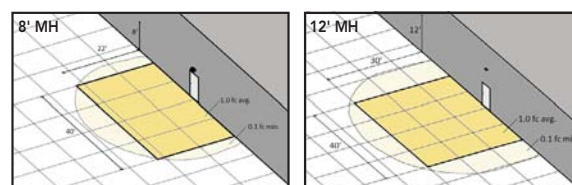
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
P3	50	0.42	0.24	0.21	0.19	---	---
	56	---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min

*for use with site wide Dusk to Dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion	⊘	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof*	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof* with Motion	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture

✓ Recommended

⊘ Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance Package	System Watts (MVOLT ¹)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134



COMMERCIAL OUTDOOR

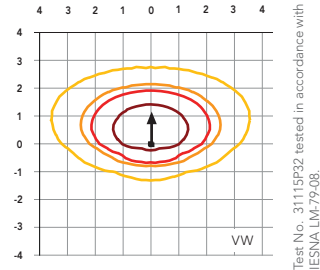
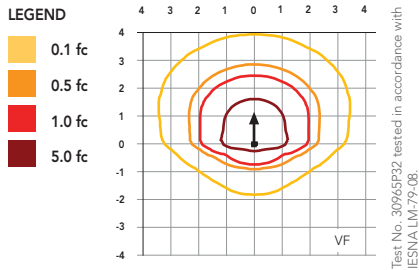
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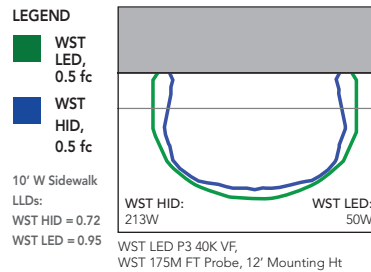
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [WST LED homepage](#).

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



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