LITHONIA LIGHTING®

Architectural LED Striplight

ZL1F

24", 48" and 96" Lengths

FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T8 lengths. Ideal for use in commercial, retail, office, 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 — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install six-point row aligner included for continuous row mounting.

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

OPTICS — Replaceable diffuse lens eliminates pixelation and offers ingress protection from debris.

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). Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page 3 for actual wattage consumption), **multi-volt input and 0-10V dimming standard**. This fixture is designed to withstand a maximum line surge of 1.5KV AT 0.75KA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

Lumen output up to 1,500 lumens per foot. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30℃).

INSTALLATION — Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Six-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 86°F (30℃).

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/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 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

ZL1F LED Striplight

A+ Capable options indicated by this color background.

Example: ZL1F L48 3000LM MDD MVOLT 40K 80CRI WH

Series		Length		Reflectors[1]		Nominal lumens[2]		Diffuser		Voltage		Color temperature	
ZL1F	LED striplight	L24	24"	(blank)	Less reflector	1500LM	1,500 lumens	MDD	Medium diffuse	MVOLT	120-277V	30K	3000 K
				SMR	Symmetric	2250 LM	2,250 lumens			120	120V	35K	3500 K
						3000 LM	3000 lumens			208	208V	40K	4000 K
		L48	48"	(blank)	Less reflector	3000LM	3,000 lumens			240	240V	50K	5000 K
				ASR	Asymmetric	4500 LM	4500 lumens			277	277V		
				SMR	Symmetric	6000 LM	6000 lumens			347	347V [3]		
TZL1F	LED striplight	L96	96"	(blank)	Less reflector	6000LM	6,000 lumens			480	480V [3]		
				SMR	Symmetric	9000LM	9,000 lumens						
						12000LM	12,000 lumens						

Color rendering index		Options		Cord sets: [8]		Paint finish	
80CRI	80 CRI	PLR	Plug-in wiring[4,5]	CS1W	Straight plug, 120V	WH	White
90CRI	90 CRI	PLR1LVG	Plug-in wiring-low voltage[4,5]	CS3W	Twist-lock, 120V	GALV	Galvanized
		E7W	7W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch (LINK) [6]	CS7W	Straight plug, 277V	MB	Matte black
		2E7W	(2) 7W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch (LINK) [6,7]	CS11W	Twist-lock, 277V	SKGY	Smoke gray
		E10W	10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch (LINK) [6]	CS25W	Twist-lock, 347V		
		2E10W	(2) 10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch (LINK) [6,7]	CS97W	Twist-lock, 480V		
		E15WLCP	Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS [6,7]	CS93W	600V SEOOW white cord, no plug (no voltage required)		
		OUTEND	Cord set to exit endplate of fixture				
		BAA	Buy America(n) Act and/or Build America Buy America Qualified				

Accessories: *Order as separate catalog number.*	
HC36 M12	Hanger chain, 36" (1 pair)
ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)
ZLANGBKT	Luma-Tilt™ angle bracket for shelf or ledge mounting only
ZSPRG J2	Tong and T-grid hanger, for 15/16" T-grid (Order quantity required in multiples of 2)
SQ_	Swivel stem hanger (specify length in 2" increments up to 48")
LSXR	Sensor Switch® LSXR occupancy sensor[4]
NPP16D	nLight® switching/dimming module

Notes

1   Optional. Reflectors ship separately.
2   See Operational Data on page 3 for actual lumens.
3   Not available with L24, 24" fixture. 347V and 480V utilize a step-down transformer.
4   See ordering information on page 5. When choosing sensor options and PLR configuration, contact factory representative.
5   Not available with cordsets.
6   Not available with L24, 24" fixture.
7   Only available with the 8' (96") fixtures.
8   Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W). Not available with PLR option.

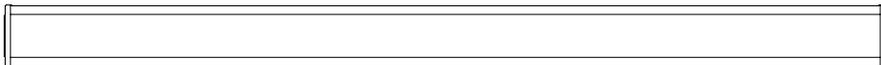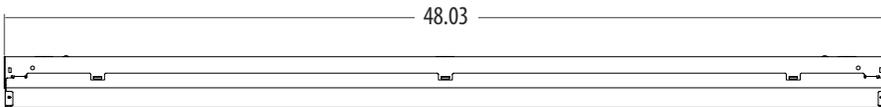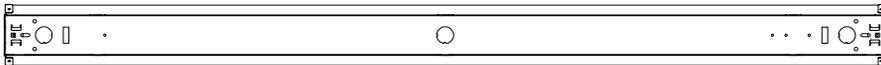| Reflectors: *Order as separate catalog number.*	
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish
ZLR L24 SYM WH	24" symmetric reflector, white finish
ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLR L46 SYM WH	46" symmetric reflector, white finish
ZLR L48 ASY WH	48" asymmetric reflector, white finish
ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
ZLR L48 SYM WH	48" symmetric reflector, white finish
ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZLR L92 SYM WH	92" symmetric reflector, white finish
ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
ZLR L96 SYM WH	96" symmetric reflector, white finish
UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

LITHONIA LIGHTING®

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Rev. 05/29/25

ZL1F LED Striplight

OPERATIONAL DATA

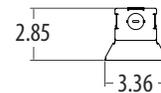|	Nominal lumen package	Length (inches)	Delivered Lumens 3000K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI		
Lensed	1500LM	24	1281	1045	1310	1081	1330	1102	1379	1126	15	1-lamp 17W T8
	2250LM	24	1822	1486	1863	1538	1892	1567	1961	1602	19	1-lamp 17W T8
	3000LM	24	2623	2139	2682	2214	2724	2256	2824	2306	30	1-lamp 17W T8
	3000LM	48	2629	2144	2688	2219	2730	2261	2830	2311	30	1-lamp 17W T8
	4500LM	48	3714	3028	3796	3134	3856	3193	3997	3264	39	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	6000LM	48	4976	4057	5087	4200	5166	4279	5357	4374	56	1-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	6000LM	96	5143	4193	5257	4340	5339	4422	5536	4520	56	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	9000LM	96	7226	5891	7387	6098	7502	6214	7778	6352	77	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	12000LM	96	10000	8153	10223	8439	10382	8599	10764	8790	114	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID

DIMENSIONS

All dimensions are shown in inches (centimeters) unless otherwise noted.

Specifications subject to change without notice.

PALLET DIMENSIONS

Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	9 lbs	96	46" X 51" X 32 5/16"
L48	18 lbs.	48	46" X 51" X 32 5/16"
L96	35 lbs.	48	46" X 98 1/2" X 32 1/16"

48.03

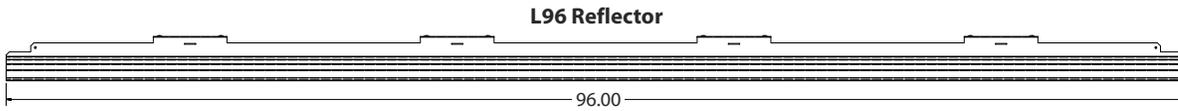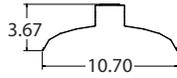Knockout hole is .86in in diameter.

2.85

3.36

REFLECTORS (Optional)

L24 Reflector

3.67

24.00

10.70

L48 Reflector

3.67

48.00

10.70

L96 Reflector

3.67

96.00

10.70
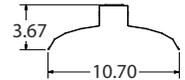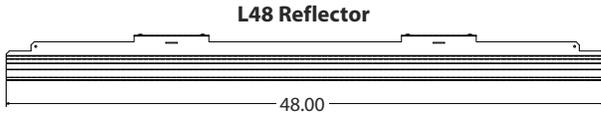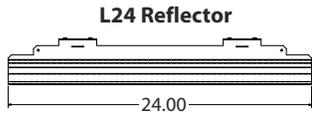
PHOTOMETRICS

Please see www.lithonia.com

OPTIONS AND ACCESSORIES

The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.
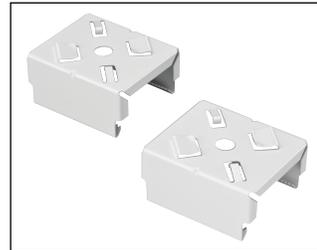
HANGER CHAIN

36" chain with Y hanger.
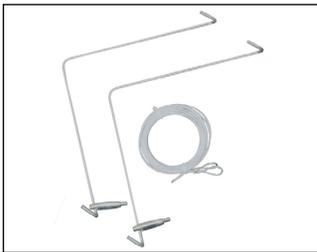
Order as:

HC36

Z SPRING HANGER

Snap 'n' lock design requires no fasteners and can be used on T-grid ceiling or universal mounting systems.

Order as:

ZSPRG

ZACVH HANGER

10' Aircraft cable with Y hanger.

Order as:

ZACVH

ANGLE MOUNTING BRACKET

Luma-tilt™ angle bracket ships as a pair

Order as:

ZLANGBKT

LITHONIA LIGHTING®

PLUG-IN WIRING 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. 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.

Not for use with dedicated emergency circuits.

Note: Specifications subject to change without notice.

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 PLR22	(blank) 1 2	Not required for PLR22 Black Black and red	Circuits to which driver is connected (blank) A B	 Not required for PLR22 Black wire Red wire	LV	Low-voltage dimming	G	Ground (required)

Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit (PLR22)
- Multiple circuit with night-lights located along row as desired

LSXR PRODUCT INFORMATION

Passive Infrared Indoor Occupancy Sensor

A standard occupancy time delay is also present to ensure lights turn off (once minimum on timer has also elapsed) if no occupancy is detected.

This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 30 minutes. These adjustments may be done through the unit's push-button.

FEATURES

- Four interchangeable lenses - high mount 360°, low mount 360°, high mount aisleway, and small motion 360°.
- Integrated mounting bracket drops lens down 3" from chase nipple - no bracket accessory required.
- 100% digital PIR detection - provides excellent RF immunity

Note: Specifications subject to change without notice.

LSXR

Single Relay

sensor**switch**

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

Example: LSXR 10 ADC HVOLT 30M

LSXR						
Series	**Lens option**				**Dimming/photocell**	
LSXR Passive Infrared Indoor Occupancy Sensor	(blank) 6 10 50 9	No lens High mount, 360° Low mount, 360° High mount aisleway Small motion, 360°	610 650 3PK 4PK	High and low mount 360° High mount 360° and aisleway High and low mount 360° and aisleway All lenses	(blank) HL P ADC ANL	None High/low occupancy operation Switching photocell (on/off) Dimming and switching photocell Dimming and switching photocell with high/low occupancy operation

Voltage		Max dim level		Min dim level		Lead length		Temp humidity		Default time delay	
(blank) HVOLT	120-277 VAC (MVOLT) 347-480 VAC	(blank) 9H 8H 7H	10 VDC 9 VDC 8 VDC 7 VDC	(blank) 1V 2V 3V 4V 5V 6V	Minimum dimming level of ballast 1 VDC 2 VDC 3 VDC 4 VDC 5 VDC 6 VDC	(blank) 42L	14" 42"	(blank) LT	None Low temperature	(blank) 5M 15M 20M 30M	10 minutes (with minimum 15 minutes on time) 5 minutes (LED only) 15 minutes 20 minutes 30 minutes

For additional information see www.lithonia.com