

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 below). Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two 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 °C).

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°C).

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



Architectural LED Striplight

ZL1F

24", 48" and 96" Lengths



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.

ORDERING INFORMATION

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

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	Paint finish
80CRI 80 CRI	PLR Plug-in wiring ^{4,5}	WH White
90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{4,5}	GALV Galvanized
	E7W Emergency battery pack, 7W CA Title 20 Noncompliant ^{6,7}	MB Matte black
	2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{6,7,8}	SKGY Smoke gray
	E10WLCPL Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ^{6,7}	
	2E10WLCPL Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ^{6,7,8}	
	E15WLCPL Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ^{6,7,8}	
	OUTEND Cord set to exit endplate of fixture	

Accessories: Order as separate catalog number.

HC36	Hanger chain, 36"
ZACVH	Aircraft cable 10' (one pair)
ZLANGBKT	Luma-Tilt™ angle bracket
ZSPRG	For 15/16" T-grid only
SQ_	Stem kit, 2" increments up to 48"
LSXR	Sensor Switch® LSXR occupancy sensor ⁴
NPP16D	nLight® switching/dimming module

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

Notes

- Optional. Reflectors ship separately.
- See Operational Data on page 3 for actual lumens.
- Not available with L24, 24" fixture. 347V and 480V utilize a step-down transformer.
- See ordering information on page 5. When choosing sensor options and and PLR configuration, contact factory representative.
- Not available with cordsets.
- Not available with L24, 24" fixture. See spec sheet PS1055LCP, PS155LCP and PS750L for more information.
- Must specify voltage. 120, 208, 240, or 277V.
- Only available with the 8" (96") fixtures.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).

ZL1F LED Striplight

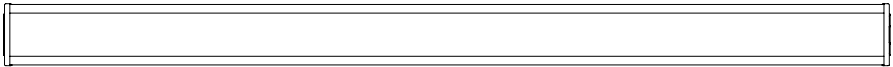
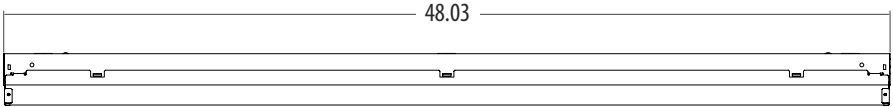
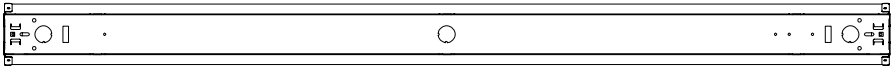
OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient 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

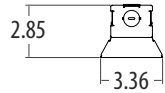
All dimensions are shown in inches (centimeters) unless otherwise noted.
Specifications subject to change without notice.

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"

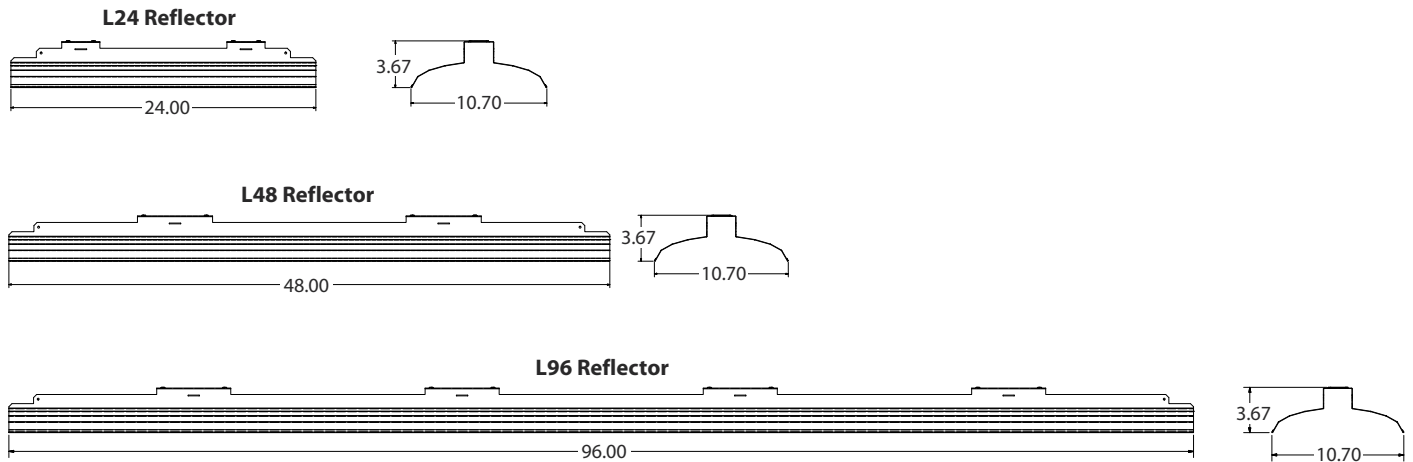


Knockout hole is .86in in diameter.



ZL1F LED Striplight

REFLECTORS (Optional)



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.

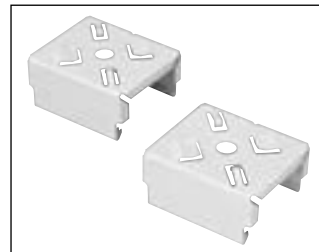


HANGER CHAIN

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

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.



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	A Black wire		
		B Red wire		

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

PRODUCT INFORMATION

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.



Passive Infrared Indoor Occupancy Sensor

LSXR

Single Relay

sensorswitch

ORDERING INFORMATION

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

Example: LSXR 10 ADC HVOLT 30M

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

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

For additional information see www.lithonia.com