

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 T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove 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 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 — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. 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 2.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page 4 for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** 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.

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

Lumen output up to 2,000 lumens per foot. In 86°F (30°C) ambient environments. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Tool-less channel cover for easy installation.

Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Three-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 -40°F (-40°C) and 86°F (30°C).

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 to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. 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.

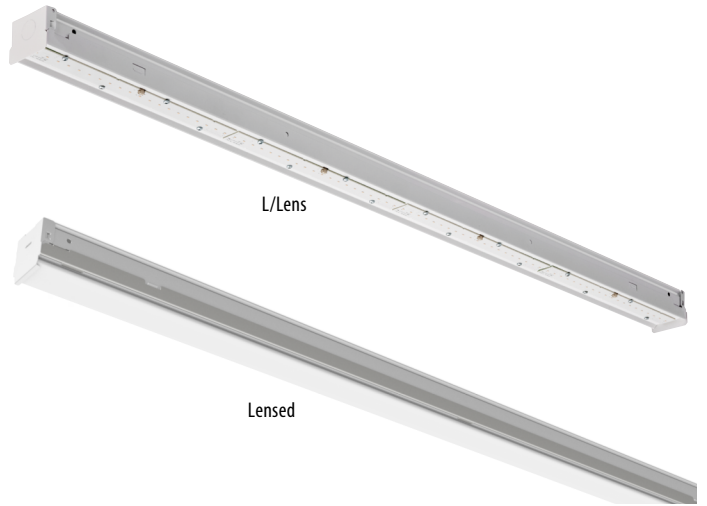
Catalog Number
Notes
Type



LED Striplight

ZL1N

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® control networks marked by a shaded background*

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

*See ordering tree for details

ZL1N 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: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH

Series	Length	Reflectors†	Nominal lumens†	Diffuser	Voltage
ZL1N LED striplight	L24 24" †	(blank) Less reflector	1500LM 1,500 lumens	FST Snap on frosted, diffuser	MVOLT 120-277V
		SMR Symmetric	2500LM 2,500 lumens	L/LENS No diffuser	120 120V
			3500LM 3,500 lumens	SBL FST Straight blade louver with snap on frosted, diffuser	208 208V
	L46 46" L48 48"	(blank) Less reflector	3000LM 3,000 lumens		240 240V
		ASR Asymmetric (L48 only)	5000LM 5,000 lumens		277 277V
		SMR Symmetric	7000LM 7,000 lumens		347 347V †
TZL1N LED striplight †	L92 92"	(blank) Less reflector	6000LM 6,000 lumens		480 480V †
	L96 96"	SMR Symmetric	10000LM 10,000 lumens 14000LM 14,000 lumens		

Color temperature	Color rendering index	Options	Individual Controls †	Paint finish
30K 3000 K	80CRI 80 CRI	PLR__ Plug-in wiring †	LBOZU 360° low mount LSXR PIR sensor, (7-15' mounting heights), ON/OFF occupancy, pre-wired (LINK) †	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage †	LBHOSZU 360° low mount LSXR PIR sensor, (7-15' mounting heights), high/low occupancy dimming, pre-wired (LINK) †	GALV Galvanized
40K 4000 K		E7W Power Sentry® PS750L, 7 watt emergency battery, CA Title 20 non-compliant (LINK) †	LBPZU 360° low mount LSXR PIR sensor, (7-15' mounting heights), ON/OFF photocell, pre-wired (LINK) †	MB Matte black
50K 5000 K		2E7W Two Power Sentry® PS750L, 7 watt emergency batteries, CA Title 20 non-compliant (LINK) †	LBMOSZU 360° low mount LSXR PIR sensor, (7-15' mounting heights), dimming and switching photocell, pre-wired (LINK) †	SKGY Smoke gray
		E10WLCP Power Sentry® PS1055LCP, 10 watt emergency battery, Certified in CA Title 20 MAEDBS (LINK) †		
		2E10WLCP Two Power Sentry® PS1055LCP, 10 watt emergency batteries, Certified in CA Title 20 MAEDBS (LINK) †		
		E15WLCP Power Sentry® PS1555LCP, 15 watt emergency battery, Certified in CA Title 20 MAEDBS (LINK) †		
		OUTEND Cord set to exit endplate of fixture		
		BAA Buy America(n) Act Compliant		
		nLight® Wireless †	Cord sets: †	
		NLTAIR2 nLight® Air Generation 2 enabled, 360° low mount sensor, (7 to 15' heights) (LINK)	CS1W Cord with NEMA 5-15P, 120V straight blade plug, 18 gauge, 3 conductors, white, 6ft	
		RLSXR10 nLight® Air Generation 2 enabled, 360° low mount sensor, (7 to 15' heights), UL 924 Emergency Operation, via power interrupt detection (not available with battery pack) (LINK) †	CS3W Cord with NEMA L5-15P, 120V twist lock plug, 18 gauge, 3 conductor, white, 6ft	
			CS7W Cord with NEMA 7-15P, 277V straight blade plug, 18 gauge, 3 conductors, white, 6ft	
			CS11W Cord with NEMA L7-15P, 277V twist lock plug, 18 gauge, 3 conductors, white, 6ft	
			CS25W Cord with NEMA L24-20P, 347V twist lock plug, 18 gauge, 3 conductors, white, 6ft	
			CS97W Cord with NEMA L8-20P, 480V twist lock plug, 18 gauge, 3 conductors, white, 6ft	
			CS93W Cord only (no plug), 18 gauge, 3 conductors, white, 6ft	

Accessories: Order as separate catalog number.			
HC36 M12	Hanger chain, 36" (1 pair)	ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish
ZACYH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
SQ_	Swivel stem hanger (specify length in 2" increments up to 48")	ZLR L46 SYM WH	46" symmetric reflector, white finish
NPP16D	nLight® wired power/relay pack, 0-10VDC dimming output (LINK)	ZLR L48 ASY WH	48" asymmetric reflector, white finish
RPP20D	nLight® air Generation 2 enabled, power/relay pack, 0-10V dimming output (LINK)	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
LSXR	Sensor Switch® LSXR occupancy sensor (LINK)	ZLR L48 SYM WH	48" symmetric reflector, white finish
ZSPRG J2	Tong and T-grid hanger, for 15/16" T-grid (Order quantity required in multiples of 2)	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
WGZ24	24" wireguard, white †	ZLR L92 SYM WH	92" symmetric reflector, white finish
WGZ48	48" wireguard, white †	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

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‡ Option Value Ordering Restrictions	
Option value	Restriction
2E7W	MVOLT required. Available with L92 or L96 only. Not available with L24, L46, L48, L92 6000LM, L96 6000LM or any cordset that includes a plug.
2E10WLCP	MVOLT required. Available with L92 or L96 with 10,000LM or 14000LM only. Not available with L24, L46, L48, L92 6000LM, L96 6000LM or any cordset that includes a plug.
347, 480	Utilizes step down transformer.
Cord Sets	Must specify voltage when plug is included. Cordsets exit back of fixture unless OUTEND option is specified.
E7W	MVOLT required. Available with L46, L48, L92 or L96 with 10000LM or 14000LM only. Not available with L24 or any cordset that includes a plug.
E10WLCP	MVOLT required. Available with L46, L48, L92 or L96 only. Not available with L24 or any cordset that includes a plug.
E15WLCP	MVOLT required. Available with L92 or L96 only. Not available with L24, L46, L48 or any cordset that includes a plug.
HTZL1N	Tandem fixture ships as two L46 or L48 fixtures.
Individual Controls	Available with MVOLT, 347 or 480 only. See ordering information on page 6 for more configurations. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 5 for low temperature option providing -4°F (-20°C) minimum ambient. When choosing Sensor and PLR for same fixture, consult the factory. Sensors come prewired, they must be snapped into place at time of installation.
L24	Not available with 347V, 480V or emergency batteries.
nLight® Wireless	See LINK in sensor description to RLSXR specification sheet for more configurations. When choosing a sensor and PLR for same fixture, consult the factory. Sensors come prewired, they must be snapped into place at time of installation.
NLTAIR2 RLSXR10EM	Not available with 347 or 480. MVOLT required.
Nominal Lumens	See Operational Data on page 2 for actual lumens.
PLR ___	Not available with cordset options. See ordering information on page 5. When choosing a sensor and PLR for the same fixture, consult the factory.
PLR1LVG	Not available with cordset options.
Reflectors	Optional. Reflectors ship separately.
WGHZ24	Not available with ASR or SMR reflector options.
WGHZ48	Not available with ASR or SMR reflector options. Order a Qty of 2 for L92 or L96 tandem fixtures.