

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, 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 — 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), or matte black (MB). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

 $\begin{tabular}{ll} \textbf{OPTICS} & — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. \end{tabular}$

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring coolrunning operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications (see PLR_ ordering information on page 5). 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 with stand 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 80CRI or 90 CRI 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 $86^{\circ}F$ ($30^{\circ}C$).

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 $-40^{\circ}F$ ($-40^{\circ}C$) and $86^{\circ}F$ ($30^{\circ}C$).

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.

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.

Catalog Number		
Notes		
Туре		



LED Striplight

ZL₁D

24", 48" and 96" Lengths













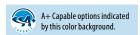
** Capable Luminaire

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 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: ZL1D L48 3000LM FST MVOLT 40K 80CRI WH

															·
Series		Lengt	h	Reflecto	ors‡	Nominal I	umens‡	Diffus	ser	Voltage		Color	temperature	Color r index	endering
ZL1D	LED striplight	L24 L48	24" ‡ 48"	SMR	Less reflector Symmetric Less reflector Asymmetric	1500LM 2500LM 3500LM 3000LM 5000LM	1,500 lumens 2,500 lumens 3,500 lumens 3,000 lumens 5,000 lumens	FST	Drop lens	MVOLT 120 208 240 277	120-277V 120V 208V 240V 277V	27K 30K 35K 40K 50K	2700 K 3000 K 3500 K 4000 K 5000 K	80CRI 90CRI	80 CRI 90 CRI
TZL1D	LED striplight‡	L96	96"	SMR	Symmetric Less reflector	7000LM 6000LM	7,000 lumens 6,000 lumens			347 480	347V ‡ 480V ‡				
	. •			SMR	Symmetric	10000LM 14000LM	10,000 lumens 14,000 lumens								

Options				Paint fin	ish
PLR	Plug-in wiring <mark>‡</mark>	<u>Individual</u> (Controls ‡	WH	White
PLR PLR1LVG E7W 2E7W E10W 2E10W E15WLCP OUTEND BAA nLight® Wireless NLTAIR2 RLSXR10 NLTAIR2 RLSXR10EM	Plug-in wiring-low voltage‡ 7W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch‡ (2) 7W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch‡ 10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch‡ (2)10W Emergency battery pack, constant power, Certified in CA Title 20 MAEDBS, User selectable Self-Diagnostic, AC Activate with Integral Test Switch‡ Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS\$‡ Cord set to exit endplate of fixture Buy America(n) Act and/or Build America Buy America Qualified nLight* Air Generation 2 enabled, 360° low mount sensor, (7 to 15' heights) (LINK) nLight* Air Generation 2 enabled, 360° low mount sensor, (7 to	Individual (LBOZU LBHOSZU LBPZU LBMOSZU Cord sets: ‡ CS1W CS3W CS7W CS11W CS25W CS97W	360° low mount LSXR PIR sensor, (7-15' mounting heights), ON/OFF occupancy, pre-wired (LINK) ‡ 360° low mount LSXR PIR sensor, (7-15' mounting heights), high/low occupancy dimming, pre-wired (LINK) ‡ 360° low mount LSXR PIR sensor, (7-15' mounting heights), ON/OFF photocell, pre-wired (LINK) ‡ 360° low mount LSXR PIR sensor, (7-15' mounting heights), dimming and switching photocell, pre-wired (LINK) ‡	WH MB GALVB GALVW	White Matte black Galvanized fixture with black plastic lens endcaps Galvanized fixture with white plastic lens endcaps
	15' heights), UL 924 Emergency Operation, via power interrupt detection (not available with battery pack) (LINK) ‡	CS93W	Cord only (no plug), 18 gauge, 3 conductors, white, 6ft		

Accessories: Order as separate catalog number.							
Accessories: 0 HC36 M12 ZACVH M100 ZLANGBKT SQ_ NPP16D RPP20D LSXR ZSPRG J2 WGZ24	Hanger chain, 36" (1 pair) Adjustable 10' aircraft cable with Y hanger (1 pair) Luma-tilt™ angle bracket for shelf or ledge mounting only Swivel stem hanger (specify length in 2" increments up to 48") nLight® wired power/relay pack, 0-10VDC dimming output (LINK) nLight® air Generation 2 enabled, power/relay pack, 0-10V dimming output (LINK) Sensor Switch® LSXR occupancy sensor (LINK) Tong and T-grid hanger, for 15/16" T-grid (Order quantity required in multiples of 2) 24" wireguard, white ‡	ZLR L24 SYM UPL WH ZLR L24 SYM WH ZLR L46 SYM UPL WH ZLR L46 SYM WH ZLR L48 SYY WH ZLR L48 SYY WH ZLR L48 SYM UPL WH ZLR L92 SYM UPL WH ZLR L92 SYM UPL WH	24" symmetric reflector with uplight, white finish 24" symmetric reflector, white finish 46" symmetric reflector with uplight, white finish 46" symmetric reflector, white finish 48" asymmetric reflector, white finish 48" symmetric reflector with uplight, white finish 48" symmetric reflector with uplight, white finish 92" symmetric reflector, white finish 92" symmetric reflector, white finish 92" symmetric reflector, white finish				
WGZ48	48" wireguard, white ‡	ZLR L96 SYM UPL WH ZLR L96 SYM WH UNIVERSAL REFL ALIGNER	96" symmetric reflector with uplight, white finish 96" symmetric reflector, white finish Universal reflector aligners, quantity 1				

	‡ Option Value Ordering Restrictions
Option value	Restriction
2E7W	Utilizes (2) Power Sentry PS750L emergency drivers. MVOLT required. Available with L96 only. Not available with L24, L48, L96 6000LM or any cordset that includes a plug.
2E10W	Utilizes (2) Power Sentry PS1055LCP emergency drivers. MVOLT required. Available with L96 10,000LM or 14000LM only. Not available with L24, L48, L96 6000LM or any cordset that includes a plug.
347, 480	Utilizes step down transformer.
Cordsets	Must specify voltage when plug is included. CS93W available with MVOLT. Cordsets exit back of fixture unless OUTEND option is specified.
E7W	Utilizes Power Sentry PS750L emergency driver. MV0LT required. Not available with L24 or any cordset that includes a plug.
E10W	Utilizes Power Sentry PS1055LCP emergency driver. MVOLT required. Available with L48 or L96 only. Not available with L24 or any cordset that includes a plug.
E15WLCP	Utilizes Power Sentry PS1555LCP emergency driver. MVOLT required. Available with L96 only. Not available with L24, L48 or any cordset that includes a plug.
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 6 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 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	MVOLT only.
Nominal Lumens	See Operational Data on page 4 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.
TZL1D	Tandem fixture comes as two L48 fixtures
WGZ24	Not available with ASR or SMR reflector options.
WGZ48	Not available with ASR or SMR reflector options. Order a Qty of 2 for L96 tandem fixtures.

OPER#	DPERATIONAL DATA												
	Nominal lumen package	Length (inches)	CCT @ 7	umens 3000K 7°F (25°C) emperature	CCT @ 7	umens 3500K 7°F (25°C) emperature	CCT @ 7	umens 4000K '7°F (25°C) emperature	CCT @ 7	umens 5000K 7°F (25°C) emperature	Wattage @ 120V/277V	Comparable Light Source	
	раскаче		80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI	1200/2/70		
	1500LM	24	1985	1619	2030	1675	2061	1707	2137	1745	17	1-lamp 17W T8	
	2500LM	24	2682	2187	2742	2264	2785	2307	2887	2358	22	1-lamp 17W T8	
	3500LM	24	4099	3341	4190	3459	4255	3524	4412	3603	36	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID	
-	3000LM	48	3880	3163	3966	3274	4028	3336	4176	3410	30	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID	
Lensed	5000LM	48	5337	4351	5456	4504	5541	4589	5745	4691	41	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID	
_	7000LM	48	7317	5965	7480	6175	7596	6291	7876	6431	59	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID	
	6000LM	96	8077	6585	8257	6816	8386	6945	8694	7099	60	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID	
	10000LM	96	11021	8985	11267	9301	11442	9477	11864	9687	81	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID	
	14000LM	96	15397	12553	15741	12995	15986	13240	16574	13534	121	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID	

PROJECTED LUMEN MAINTENANCE

Operating Hours	0	15,000	30,000	45,000	60,000	100,000
Lumen Maintenance Factor	1	0.94	0.89	0.83	0.79	0.67

DIMENSIONS

 $\label{lem:continuous} All \ dimensions \ are \ shown \ in inches \ (centimeters) \ unless \ otherwise \ noted.$ Specifications subject to change without notice.

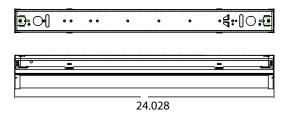
PALLET DIMENSIONS							
Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)				
L24	7 lbs.	176	46" X 51" X 31 5/8"				
L48	13 lbs.	176	46" X 51" X 31 5/8"				
L96	26 lbs.	63	46" X 98 1/2" X 31 3/8"				







ZL1D L48



ZL1D L24

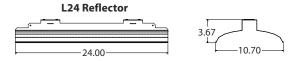
Knockout hole is .86in in diameter.

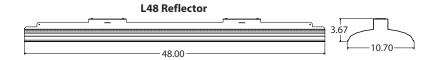


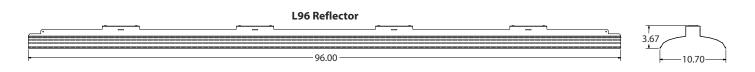
Mounting Hole Location - All Lengths



REFLECTORS (Optional)







PHOTOMETRICS

Please see www.lithonia.com

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 $conductor, rated 600V, 90^{\circ}\text{C}. \ White neutral wire included. \ Grounding accomplished by fixture in-row connectors.$

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.

Wiring

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 o	circuits			Dim	ming	Ground	
PLR PLR22	(blank) Not required 1 Black 2 Black and rec		o which driver is connected Not required for PLR22 or PLR1 Black wire Red wire	Battery ((blank) ELA ELB	harging circuit (must be unswitched) No battery charging circuit Battery pack circuit wired to black wire Battery pack circuit wired to red wire	LV	Low-voltage dimming	G Grour	nd (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 — Fixture Mount Occupancy Sensor (see

www.AcuityControls.com for additional information)

- Three interchangeable lens options to satisfy multiple mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase
- Single or dual relay versions designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- \bullet Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature					
For shortest lead times use one of the following LSXR configurations							
LCOZU	CMRB 50	MSI					
LCHOSZU	CMRB 50 D	MSID					
LCPZU	CMRB 50 P	MSIPED					
LAOZU	CMRB 6	MSI360					
LAHOSZU	CMRB 6 D	MSI360D					
LAPZU	CMRB 6 P	MSI360PED					

SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

SINGLE RELAY

ORDERING INFORMATION

Default occupancy Series Lens option Dimming/Photocell Max. dim level Min. dim level Temp/Humidity time delay L LSXR passive High mount, None¹ 10 VDC S Minimum dim None 30 sec infrared indoor 360° level of ballast Н High/low occupancy 9 9 VDC Low temperature² D 2.5 min occupancy sensor 1 1 VDC Low mount, operation 8 8 VDC χ 5.0 min 360° Switching photocell 2 2 VDC 7 VDC R 7.5 min C High mount (on/off)1 3 3 VDC U 10.0 min aisleway Dimming and 4 4 VDC (with minimum 15 switching photocell minute on time) 5 VDC 5 Dimming and ٧ 15.0 min 6 VDC switching photocell with high/low oc-6 W 20.0 min cupancy operation 30.0 min

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

Example: LAHOSZU

DUAL RELAY (Available with 120, 277, and 347V only)

ORDERING INFORMATION

Example: LA2KZU

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell(on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low tempera- ture ¹	1 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min C 2.5 min C 2.

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.							
<u>Series</u> LENS	Lens type 6 High mount 360° 10 Low mount 360°	Package quantity [blank] Single Lens J10 10-pack					
	50 High mount aisleway	J100 100-pack					

Notes

1 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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.

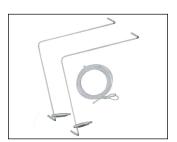
Order as: HC36



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.

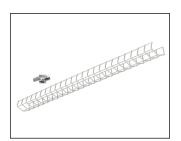
Order as: ZACVH



ANGLE MOUNTING BRACKET

Luma-tilt™ angle bracket ships as a pair

Order as: ZLANGBKT



WIRE GUARD

Order as: WGZ24 WGZ48