# Z

SERIES

LED
LED
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LED

LITHONIA LIGHTING®

Lithonia Lighting, the leader in industrial lighting, has delivered high-quality, reliable lighting solutions for 65 years. Building on that reputation, we are proud to expand our industrial striplight offering to include LED solutions. Based on the original Z Series fluorescent striplight design, the new **Z Series LED striplights** provide:

» **Longer life**
» **Greater color uniformity**
» **Superior performance in a wide range of ambient temperatures**
» **Choice of lensed or unlensed fixture**
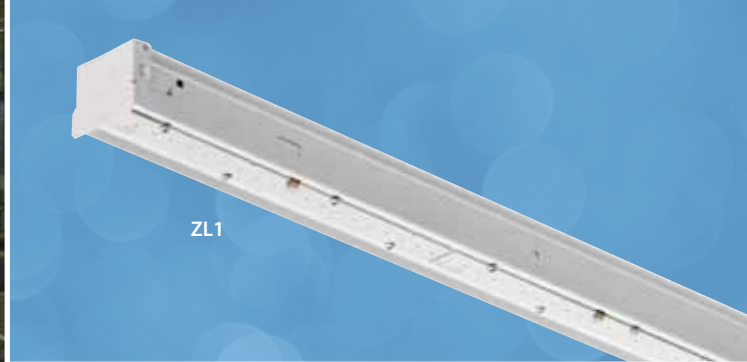
ZL1

ZL2

Z Series LED Key Features

Simple installation:

» Tool-less snap-on channel cover for easy wiring access

» Internal pluggable wiring harness prevents wiring errors

» 3-sided row-alignment clips for straighter, faster row assembly

» Rigid, 6-bend channel provides additional strength to prevent bowing or twisting of the fixture

Available lengths:

» 2'

» 4'
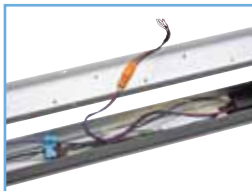
Smart packaging:

» Easy-open carton saves time by eliminating the need for a box cutter

» No loose parts spill on the floor; all parts are shipped securely within the product

Mounting:

» Surface-mount in any orientation to provide uplight or downlight

» Suspended-mount with chain, aircraft cable or stem

Lumen packages:

» 1400-6000 lumens available

» Choice of 3000K, 3500K or 4000K color temperatures

Controls:

» Photocontrols let you take advantage of natural daylight

» Motion sensors save energy in unoccupied spaces

Finishes (post-painted):

» White

» Galvanized

» Matte black

» Smoke gray

Better Illumination

Color consistency:

Not all LED lighting manufacturers are created equal. Lithonia Lighting takes great pride in the fact that our fixtures offer incredible color consistency.

With the Z Series LED striplights, each LED is electronically and optically measured during fabrication to guarantee that the slightest color variance is undetectable by the human eye. The LED technology exceeds ANSI standards resulting in superior uniformity and a better lighting experience in your space.

4000K

3500K

3000K
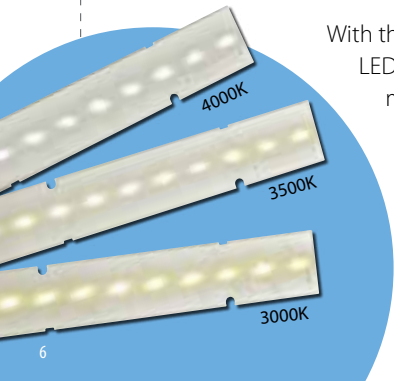
Even distribution:

When mounted in a continuous row, fluorescent striplights create dark spots between fixtures while Z Series LED striplights provide a flawless look. The diagram below explains further.

Fluorescent striplights only distribute light downward while the Z Series LED striplights place light outward as well.

Fluorescent striplights have sockets at the end of each fixture that prevent light from projecting outward.

Z Series LED striplights offer wider light distribution and have no sockets to create dark spots between fixtures.

Cove is illuminated with **FLUORESCENT** striplights which create shadows between fixtures and a scalloped pattern on the wall.

Cove is illuminated with **Z SERIES LED** striplights providing a seamless transition between fixtures.

Fixture Life

Long-life, worry-free lighting.

Z Series LED striplights contain
components selected for high
performance. LED LM-80 test data
predicts an L70 of more than 100,000
hours and an L86 of 60,000 hours. The
fixtures are CSA Certified for dry and
damp locations from -4°F (-20°C) to
86°F (30°C).

Controls

## Increase energy savings and return on investment.

With 0-10V dimming down to 10% standard, and a bi-level option, reduce energy costs by dimming your lighting during off-peak hours. Z Series LED striplights are ideal for photocontrols and occupancy sensors so you can take advantage of natural daylight and unoccupied spaces.

The optional Sensor Switch low bay occupancy sensor may be mounted at the end of a row or anywhere along a continuous row. It utilizes passive infrared (PIR) technology to detect motion at 360° from 8' to 20' mounting heights.

Occupancy sensor provides:
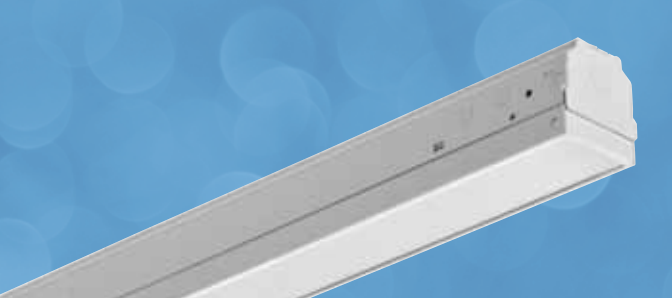
» 360° coverage
» Self-contained relay; no power pack needed
» Adjustable time delay
» Convenient test mode
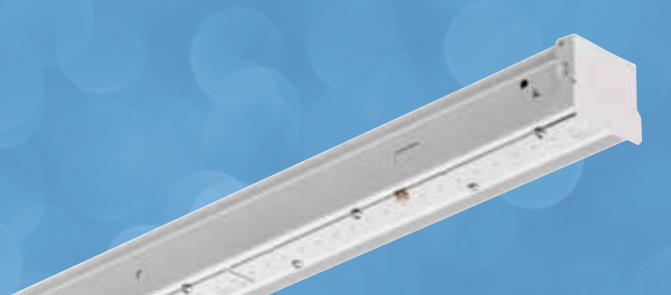
ZL1 LED

» Narrow housing (2-1/2" wide) for tight spaces

» Unshielded optics provide maximum light output and efficiency

» **Typical applications:** Cove lighting • Retail shelving and industrial racks • Warehouse • Cold storage

ZL2 LED

» Larger housing (3-3/8" wide)

» Choice of medium-diffuse or clear lens to provide glare control and protection from debris

» Optional integrated emergency operation

» **Typical applications:** Retail aisle lighting • Retail shelving and industrial racks • Under canopy • Warehouse • Cold storage

FREQUENTLY ASKED QUESTIONS

» **Do the Z Series LED striplights share any design elements with the original Z fluorescent striplight?**

The ZL1 and ZL2 LED striplights have the same popular features as the Z fluorescent striplight. These features include a tool-less snap-on channel cover, rigid gripper back and robust row-alignment clips.

» **How are the ZL1 and ZL2 LED striplights similar to each other?**

ZL1 and ZL2 fixtures use the same basic electronics. Each contains a high-efficiency, Class 2 multi-volt driver that is connected to multiple integrated LED boards with a custom pluggable harness.

» **What should I know about the LED boards?**

Incredible color consistency is achieved by measuring each emitter in many ways during fabrication, including color temperature (CCT). This is called binning. Z Series LED striplights exceed ANSI standards by mixing emitters by their individual characteristics, not by simple binning. The result is superior uniformity. Also, the color rendering index (CRI) is 83 minimum.

» **What standard features are built into the driver?**

0-10V dimming down to 10% is standard, but a bi-level option is available.

» **What are the differences between the ZL1 and ZL2 fixtures?**

Size and optional features differentiate the ZL1 from the ZL2 striplight. ZL1 is based off of the Z fluorescent striplight. It has a narrow housing and the LED boards are unshielded for maximum efficiency. ZL2 has a wider housing, offers two lens options to diffuse the LEDs and is capable of integrated emergency operation.

» **What mounting options are available?**

Z Series LED striplights are compatible with our standard Z-spring, chain and hook, and aircraft cable and hook kits. You can also surface mount the units in any orientation.

» **Can I attach sensors to Z Series LED striplights?**

Certainly. Photocontrols and occupancy sensors are fully compatible with ZL1 and ZL2 products.

» **What is the ambient temperature operating range and environmental class?**

ZL1 and ZL2 fixtures are CSA Certified for dry and damp locations between -4°F (-20°C) and 86°F (30°C).

» **What is the expected service life?**

When used in environments between -4°F (-20°C) and 86°F (30°C) ambient, the LED LM-80 test data predicts an L70 of more than 100,000 hours and an L86 of 60,000 hours.

» **What is the standard warranty?**

There is a 5-year limited warranty. Full warranty terms are located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

» **What is the lumen output and power consumption?**

See table below.

Lumen Output/Wattage Comparison				
Z Series LED				**Comparable Fluorescent**
Length	ZL1 Lumens	ZL2 Lumens	Wattage	
46" or 48"	6000	4600	75	2-lamp 32W T8 or 28W T5
	2800	2300	32	1-lamp 32W T8 or 28W T5
24"	3000	2600	39	2-lamp 17W T8 or 15W T5
	1700	1400	21	1-lamp 17W T8 or 15W T5

For shortest lead times, configure product using **standard options (shown in bold).**

Example: ZL1 L46 2800L D75 LP840

Series		Length		Lumens		Voltage		Driver		Lamp		Options		Finish	
ZL1	LED striplight	**L46**	46"	**2800L**	2800 lumens[1]	**(blank)**	MVOLT	**D75**	Driver	**LP840**	83 CRI, 4000K	PLR	Plug-in wiring	**(blank)**	White
		L48	48"	6000L	6000 lumens[1]							BDP	Ballast disconnect plug	GALV	Galvanized
		L24	24"	1700L	1700 lumens[2]					LP830	83 CRI, 3000K	MSE360LBZ	360° motion sensor; for mounting within row or at end of row	MB	Matte black
				3000L	3000 lumens[2]					LP835	83 CRI, 3500K			SKGY	Smoke gray

Accessories: *Order as separate catalog number.*					
HC36	Hanger chain, 36"	ZAC120	Aircraft cable, 120"	CMRB-50	Aisle motion sensor[3]
ZACVH	Aircraft cable with hook	ZACF120	Aircraft cable with feed, 120"	CMRB-6	360° motion sensor[3]
ZAC72	Aircraft cable, 72"	ZAC144	Aircraft cable, 144"	SFR7KIT	Mini 360° motion sensor[3]
ZACF72	Aircraft cable with feed, 72"	ZACF144	Aircraft cable with feed, 144"		

Notes
1 Available with 46" and 48" only.
2 Available with 24" only.
3 Field installed only.

Example: ZL2 L46 2300L D75 LP840

Series		Length		Lumens		Voltage		Driver		Lamp		Diffuser		Options		Finish	
ZL2	Lensed LED striplight	**L46**	46"	**2300L**	2300 lumens[1]	**(blank)**	MVOLT	**D75**	Driver	**LP840**	83 CRI, 4000K	**(blank)**	Medium diffuse	BSL722	Emergency battery pack[4,5]	**(blank)**	White
		L48	48"	4600L	4600 lumens[1]					LP830	83 CRI, 3000K	CL	Clear[3]	PLR	Plug-in wiring	GALV	Galvanized
		L24	24"	2600L	2600 lumens[2]					LP835	83 CRI, 3500K			BDP	Ballast disconnect plug	MB	Matte black
				1400L	1400 lumens[2]											SKGY	Smoke gray

Accessories: *Order as separate catalog number.*					
RKZL2DIF	Medium-diffuse diffuser	ZAC72	Aircraft cable, 72"	ZAC144	Aircraft cable, 144"
RKZL2CL	Clear diffuser	ZACF72	Aircraft cable with feed, 72"	ZACF144	Aircraft cable with feed, 144"
HC36	Hanger chain, 36"	ZAC120	Aircraft cable, 120"	CMRB-50	Aisle motion sensor[6]
ZACVH	Aircraft cable with hook	ZACF120	Aircraft cable with feed, 120"	CMRB-6	360° motion sensor[6]
				SFR7KIT	Mini 360° motion sensor[6]

Notes
1. Available with 46" and 48" only.
2. Available with 24" only.
3. Clear lens yields an additional 10% light.
4. Specify voltage; 120 or 277.
5. Output is 1400 lumens.
6. Field installed only.

OTHER Z SERIES INDUSTRIAL STRIPLIGHTS

Z fluorescent

ZAL fluorescent

ZSBL fluorescent
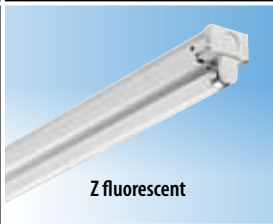
OTHER INDUSTRIAL LED PRODUCTS

PROTEON™ LED

ARCHWAY™ PASSAGE™ LED

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An *Acuity*Brands Company