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EPL-SL-10-50X-150LED-RT-IBC-277

1500 Watt Explosion Proof LED String Light - 10 150W Lights - 50' Spacing - 277V -I-Beam Clamp Mount

Product ID: 144262

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPL-SL-10-50X-150LED-RT-IBC-277V I-Beam Mount Stringer
Listing: United States & Canada
Lamp Type: Cree LED
Dimensions: 14"H x 16"W 5"D (per lamp head)
Voltage: 277 Volts AC, 50/60Hz
Total Weight: ~425 lbs.
Single Lamp Weight: 35 lbs.
Total Watts: 1,500
Single Lamp Watt: 150 watts
Total Lumens: 175,000
Single Lamp Lumens: 17,500
Luminous Efficacy: 116.67 Lm/W
Color Temp: 5000K, 4000K, 3000K
Color Rendering Index: >75 CRI
Lighting Configuration: 60° Flood or 125° Wide Flood
Lamp Life: 60,000+ Hours
Amps: 5.42A @ 277V
Mounting: Temporary I-Beam Clamps - (1) Per Fixture
Temp Rating: T5 -40°C to +65°C
Wiring:10/3 SOOW Cable - 50` between lamps, 50` whip
Total Length:500`
Cord Cap:3P4W C1D1 Pin/sleeve cord cap

Ratings/Approvals
Class 1 Divisions 1 & 2, Groups C and D
Class 2, Divisions 1 & 2, Groups E,F,G
T5 Temperature Rating
Certified to UL844 and C22.2 Standards
Paint Spray Booth Approved
LEL Approved
IP67 Rated Waterproof
Multiple Driver Banks
80% Lumen Retention after 50,000 Hours
Temporary I-Beam Mounting System

Special Orders - Special Requirements
Contact us for special requirements

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Made in the USA

The Larson Electronics EPL-SL-10-50X-150LED-RT-IBC-277V Explosion Proof 1500 watt Cree LED String Light set is approved Class I, Divisions 1 & 2, Groups C and D and Class II, Divisions 1 & 2, Groups E, F, and G and is ideal for inspection activities and temporary illumination in hazardous locations requiring explosion proof protection. This daisy chain temporary lighting system provides 175,000 lumens and comes equipped with individual I-beam mounting brackets per light head, allowing for flexibility within the job site.

This explosion proof string light set from Larson Electronics contains a total of ten 150 watt work lights equipped with I-beam mount clamps and connected in series along 500` of 10/3 SOOW cable. The 150 watt LED lights are evenly spaced at 50 foot apart along the 500` feet backbone and junction together with 50` of cable between each light. Each light has a 3-foot whip back to the main backbone. The cord on this unit is terminated with a 277V Class 1, Division 1 explosion proof 3-pole 4-wire pin and sleeve plug for complete protection. With this arrangement, each drop light cannot spark if pulled apart or dragged. A 50` foot tail section of main SOOW cord is included to allow ample length for connection to power sources.



Click Photo to Enlarge



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Each explosion proof light fixture provides 17,500 of high quality light while drawing only 150 watts, for a combined 175,000 lumens and 1,500 watts. These lights are direct replacement for 400 watt metal halide temporary fixtures. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps these fixtures to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. Light weight and a low profile make this unit an attractive alternative to larger and heavier traditional fixtures and requires less hardware to install.

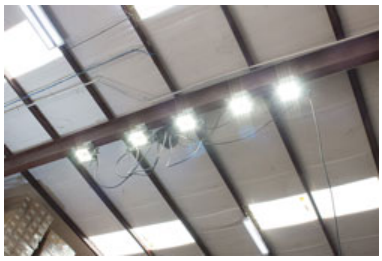
This unit incorporates ten explosion proof 150 watt LED lamps connected in series and is suitable for use in areas where petrochemical vapors and various dusts are present. The cast aluminum housings, tempered glass lens, and abrasion resistant cord make this a very durable unit that will resist damage from chemicals, abrasion, vibrations and impacts. This string lighting solution will provide the lighting you require in a flexible, easy to manage configuration for job site illumination. The lamps can be moved around and mounted to different points within the work area. The lights, however must remain within 20 feet of one other. Each explosion proof LED light features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twelve individual LED boards configured in a series of banks. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

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Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

This stringer light set is Class I, Division 1 & 2 rated for Groups C and D and Class II, Division 1 Groups E, F, and G. This light is universal voltage capable and can be operated with 277V AC, 50/60Hz. This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.

Stringer Energy Consumption Comparison

	400W Metal Halide	150W LED
Wattage	4,600* watts	1,500 watts
Amp Draw @ 277V AC	16.61 amps	5.42 amps
Lamp Life Expectancy	18,000** hours	50,000+ hours
Color Temperature	4100K	6000K
Operation cost per day (12hs/day @ 12c/kWh)	$6.63	$2.16
Operation cost per month (12hs/day @ 12c/kWh)	$198.72	$64.80
Operation cost per year (12hs/day @ 12c/kWh)	$2,417.76	$788.40

*Wattage includes ballast factor to include electricity consumed by metal halide ballast.
**Estimated lamp life does not reflect accidental damage or premature failures due to portable applications. LED lamps do not suffer from the same physical downfalls that glass bulbs are susceptible of during temporary lighting.

Made in USA Quality

1. Federal Spec 600V Cord
2. Explosion Proof - Rated for US and Canada
3. Total of (10) 150 watt LED Lamps.
4. Non-sparking aluminum construction.
5. Class 1 Div 1&2 and Class 2 Div 1&2
7. 277V AC
8. 10/3 SOOW cable.
9. Aluminum Hooks for Convenient Placement.

Lamp Features

1,500 watts of LED illumination
Non-sparking aluminum housings
Cast aluminum Housing
Tempered Soda-Lime Glass Lens
Integrated lamp shock absorbers prevent drop damage
Swivel hook for hanging and hands free operation
10/3 SOOW Abrasion Resistant Cable

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Frequently Asked Questions (FAQ)









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Product ID: 144262

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

EPL-SL-10-50X-150LED-RT-IBC-277-Beam Config

Example: EPL-SL-10-50X-150LED-RT-IBC-277-60DB

Beam Config	
60°	-60DB
125°	-125DB

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**