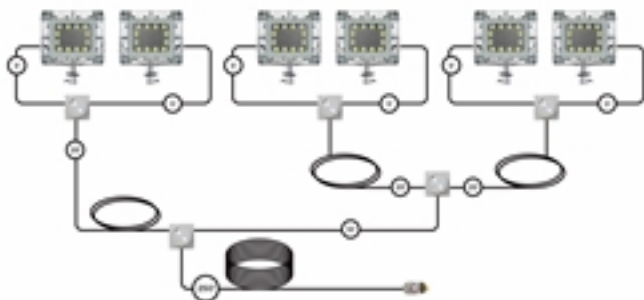


## EPL-SL-PT-6X150LED-RT-EPP-MOD1

### 900W Explosion Proof LED Lighting System - (6) LED Lamps - Adjustable Pole Top Slip Fit Mount

Product ID: 236485

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-PT-6X150LED-RT-EPP-MOD1 Pole Top Slip Fit Mount LED Lighting System

NRTL Listed for: United States - Canada

Lamp Technology: Cree LED

Lamp Qty: (6) Grouped into 3 Pairs

Single-lamp Dimensions: 16"-W x 22"-H x 18"-D

Weight: -

Voltage: 100-277 Volts AC, 50/60Hz

Total Watts: 900W

Single-lamp Watts: 150W

Total Lumens: 105,000 lms

Single-lamp Lumens: 17,500 lms

Luminous Efficiency: 116.67 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5000K, 4000K, 3000K

Color Rendering Index: >75 CRI

Beam Angle: 60° or 125°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

Amps: 7.5A @ 120V, 3.75A @ 240V, 3.24A @ 277V

Ambient Operating Temp Range:-50° C to +65°C

Operating Temp Rating: T5

Lamp Housing Material: Copper Free Cast Aluminum

Lens Material: Hardened Borosilicate Glass

#### Ratings/Approvals

Class I, Divisions 1 & 2, Groups C and D

Class II, Divisions 1 & 2, Groups E,F,G

Class III, Divisions 1 & 2

NRTL Certified to UL 844 Ed. 13

NRTL Certified to UL 1598

NRTL Certified to C22.2 No. 137 Rev 2009

NRTL Certified to C22.2 No. 250.0

NRTL Certified to C22.2 No. 30-M-1986 Rev 2012

T5 Temperature Rating

Paint Spray Booth Approved

IEC 60529 Tested

IP67 Rated Waterproof

Multiple Driver Banks

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Recommended 15' to 40' Mounting Height

Adjustable Swiveling Pole Top Mount

Multiple Slip Fit Yoke Diameters Available

**Mount Material:** Non-Sparking Aluminum w/ SS Hardware

**Gasket Material:** Silicone

**Mounting:** Slip Fit Yoke Mount w/ Adjustable Bracket

**Mount OD:** 2", 2 1/4", 2 1/2", 2 3/4" or 3"

**Wiring:** 5' 12/3 SOOW Cord Between LED Lights to Light Junction Boxes (Total 30') ; 20' 12/3 SOOW Cord Between Light Junction Boxes to Central Junction Box + 10' 12/3 SOOW Cord (Total 70') and 250' 12/3 SOOW Cord w/ EXP Cord Cap from Central Junction Box to Power Source

**Cord Cap:** 5-15P (125V), 5-20P (125V) or 6-20P (250V)

**Junction Box:** (5)

**Special Orders - Special Requirements**

Contact us for special requirements

**Toll Free:** 1-800-369-6671

**Intl:** 1-903-270-1187

**Fax:** 1-903-498-3364

**E-mail:** [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

**The Larson Electronics EPL-SL-PT-6X150LED-RT-EPP-MOD1 Explosion Proof LED Lighting System provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. This 900-watt explosion proof LED system contains six explosion proof LED lamps, grouped into three pairs for pole-mounting applications. Cree LED technology and compact design makes the lamps an excellent replacement upgrade option for bulky and high maintenance cost older fixtures.**

**\*\*\*PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE\*\*\***

This Class I, Division 1 & 2 and Class II, Division 1 & 2 pole top slip fit mount explosion proof lighting system provides 105,000 lumens of high quality light while drawing only 900 watts. Consisting of six explosion proof LED Lamps, the copper free aluminum alloy body of the fixtures is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps the fixtures achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. Light weight and a low profile makes this system an attractive alternative to larger/older fixtures and requires less hardware to install.

The EPL-SL-PT-6X150LED-RT-EPP-MOD1 pole top slip fit mount explosion proof lighting system features an adjustable swivel bracket constructed of 3/8" aluminum that allows 270° of adjustment and is attached to a slip fit yoke for easy installation. The slip fit yoke is built to customer's specs, enabling operators to mount the explosion proof LED lights to their specific pole size.



Guard Sold Separately

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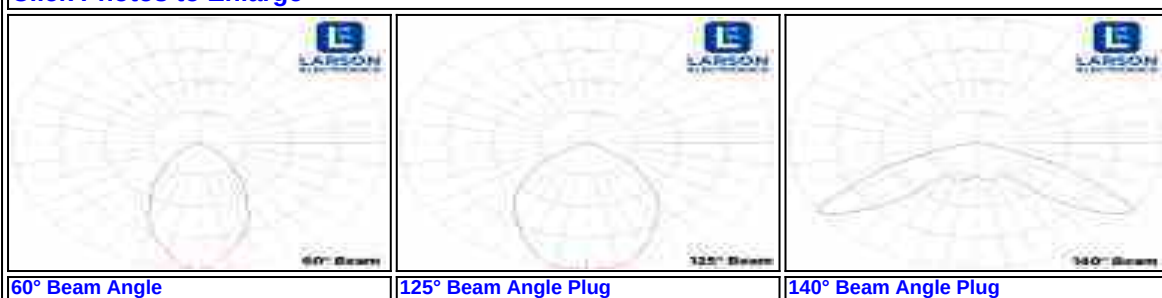


The explosion proof LED light fixtures feature multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twelve individual LED 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 of LED failure, the mating LED will continue to operate.

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.

The aluminum body of the LED lamps provides excellent durability and resistance to vibration and impacts. The housings are specially designed to dissipate heat which increases the efficiency and lifespan of the LED luminaries. The LED lamps produce 17,500 lumens each with a color temperature of 5000K, 4000K, or 3000K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. The lamps are T5 temperature rated, Design Lights Consortium approved, and the LED light heads retain 80% of lumen output after 60,000 hours of use, far longer than incandescent or fluorescent lamps.

[Click Photos to Enlarge](#)



**Beam Angles:** When used as fixed mount fixtures, the varying beam angles need to be mounted at certain heights in order to achieve the greatest coverage and efficiency in both high bay and low bay lighting situations. The 60° beam should be mounted in high bay fixtures over 25' in height and 25' away from objects if used as a wall mounted light. The 125° beam is ideal for low bay fixtures in a height range of 15-25 feet and the same distance away from objects when the wall mounting option is employed. The 140° beam is best used as a low bay fixture in areas with a ceiling height of 15' or less or for illuminating objects up to 15' away when wall mounted.

#### Energy Consumption Comparison

|                                                 | <u>Metal Halide</u> | <u>LED</u>    |
|-------------------------------------------------|---------------------|---------------|
| Wattage                                         | 400 watts           | 150 watts     |
| Amp Draw @ 120V AC                              | 3.83 amps           | 1.25 amps     |
| Amp Draw @ 220V AC                              | 2.09 amps           | 0.68 amps     |
| Amp Draw @ 240V AC                              | 1.92 amps           | 0.63 amps     |
| Amp Draw @ 277V AC                              | 1.66 amps           | 0.54 amps     |
| Amp Draw @ 12V DC                               | 38.33amps           | 12.5 amps     |
| Amp Draw @ 24V DC                               | 19.12 amps          | 6.25 amps     |
| Lamp Life Expectancy                            | 20,000 hours        | 50,000+ hours |
| Operation cost per year<br>(12hs/day @ 12c/kWh) | \$241.78            | \$78.84       |

Each LED light fixture has the potential to save \$150.00+ per year in electricity alone, not including maintenance costs, operational downtime, reduced productivity, HVAC loads, or carbon footprint. When retrofitting an entire facility with 100s of light fixtures, the return on investment of LED over metal halide becomes evident.

**Field Serviceability:** The explosion proof LED light fixtures are field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the EPL-SL-PT-6X150LED-RT-EPP-MOD1 series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

The EPL-SL-PT-6X150LED-RT-EPP-MOD1 is universal voltage capable and can be

operated with 100-277V AC, 50/60Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts. The explosion proof LED light fixtures are IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion.

The entire assembly is ETL listed Class I, Divisions 1-2 and Class II, Divisions 1-2 for use in hazardous locations and approved for paint spray booths. The extreme durability, universal voltage capabilities, and LED longevity make this LED flood lighting system an ideal fit for frac pads, rigs, offshore and combustible work sites.

[Click Photos to Enlarge](#)



5-15 Straight Blade Plug



5-20 Straight Blade Plug



6-20 Straight Blade Plug

**Wiring & Plug:** For connection to power sources, this explosion proof lighting system is equipped with 250 feet of 12/3 chemical and abrasion resistant SOOW cord (via a central junction box) that is fitted with an explosion proof cord cap. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240V explosion proof outlets.

The EPL-SL-PT-6X150LED-RT-EPP-MOD1 also contains 5' of 12/3 SOOW cord between each LED lamp to light junction boxes (total 30') and 20' of 12/3 SOOW cord + 10' of 12/3 SOOW cord between the light junction boxes to the central junction box (total 70'). There are a total of five explosion proof junction boxes available on this lighting system.

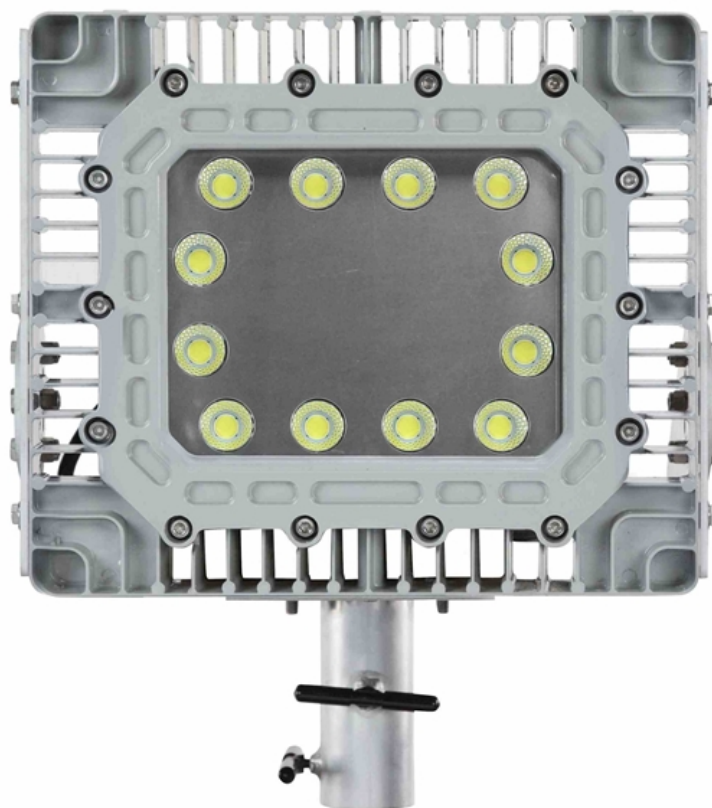
**\*\*PLEASE NOTE\*\*** voltage ratings on plugs and outlets are MAXIMUM voltage. For low voltage applications, proper voltage must be applied to the outlet or damage to the light fixture will occur.

**Mounting Notes:** The EPL-SL-PT-6X150LED-RT-EPP-MOD1 pole top slip fit mount explosion proof lighting system features an adjustable swivel bracket constructed of 3/8" aluminum that allows over 270° of adjustment and is attached to a slip fit yoke for easy installation. The slip fit yoke is built to customer's specs, enabling operators to mount this explosion proof LED light to their specific pole size. For example, selecting a 2" OD mount means that the yoke mount will fit onto pipes or bull horns with a 2" OD.

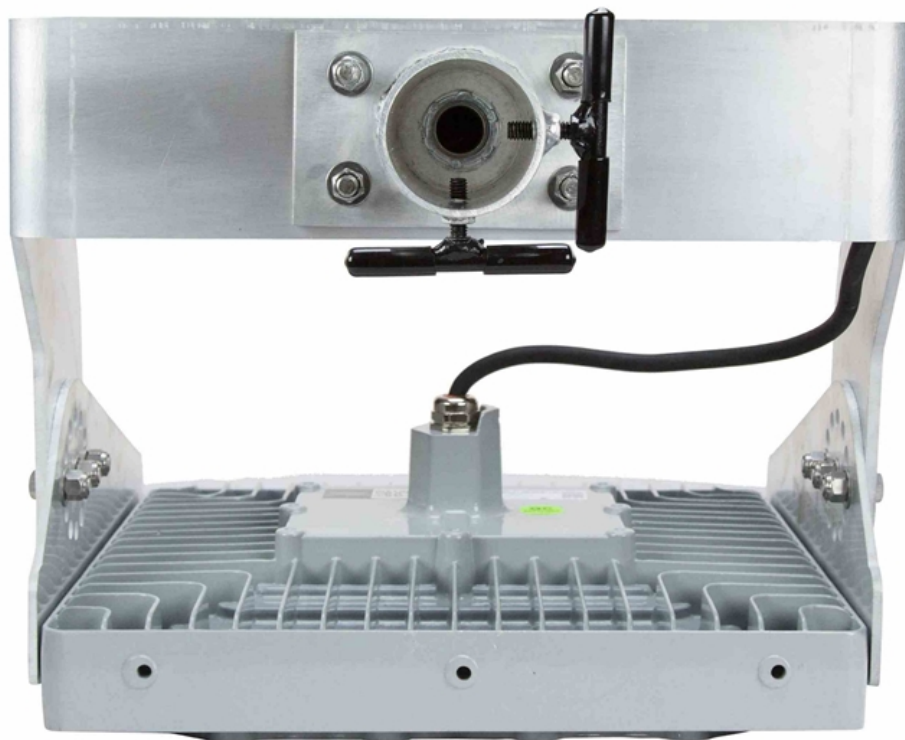
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

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## Frequently Asked Questions (FAQ)









**EPL-SL-PT-6X150LED-RT-EPP-MOD1**

**Product ID: 236485**

**Harmonized System (HS) Code:** 9405.41.84.10

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**EPL-SL-PT-6X150LED-RT-EPP-MOD1-Beam Config-Cord Cap-Mount**

**Example:** EPL-SL-PT-6X150LED-RT-EPP-MOD1-60DB-1523-2in

| Beam Config |        |
|-------------|--------|
| 60°         | -60DB  |
| 125°        | -125DB |

| Cord Cap |            |
|----------|------------|
| 5-15P    | -1523      |
| 5-20P    | -2023-125V |
| 6-20P    | -2023-250V |

| Mount    |          |
|----------|----------|
| 2 IN     | -2in     |
| 2-1/4 IN | -2.25in  |
| 2-3/8IN  | -2.375in |
| 2-1/2 IN | -2.5in   |
| 2-3/4 IN | -2.75in  |
| 3 IN     | -3in     |

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
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