

EPL-PT-150LED-RT-140DB-480V

347/480V Explosion Proof 150 Watt Adjustable Pole Top Slip Fit Mount LED Light Fixture - Yoke Mount

Product ID: 105566

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-PT-150LED-RT-140DB-480V Pole Top Slip Fit Mount

Listing: United States - Canada

Lamp Type: Cree LED

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

Weight: 42 lbs

Voltage: 347-480V AC

Total Watts: 150W

Total Lumens: 17,500

Luminous Efficiency: 116.67 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5000K, 4000K, 3000K

Color Rendering Index: >75 CRI

Beam Angle:140°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

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

Mount Material: Non-Sparking Aluminum w/ SS Hardware

Gasket Material: Silicone

Mounting: Slip Fit Yoke Mount w/ Adjustable Bracket

Yoke Diameter: 1.5", 2", 2-1/4", 2-1/2", 2-3/4", 3" Slip Fit

Ratings/Approvals

Listed for United States and Canada

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

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

Class III, Divisions 1 & 2

Certified to UL 844 Ed. 13

Certified to UL 1598

Certified to C22.2 No. 137 Rev 2009

Certified to C22.2 No. 250.0

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

120-277V AC or 11-25V AC/DC

Adjustable Swiveling Pole Top Mount

Multiple Slip Fit Yoke Diameters Available

Special Orders - Special Requirements

Contact us for special requirements

Wiring: Flying Leads inside Junction Box

Wiring Hub: 3/4" NPT

Output Current: 2.1A

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Made in the USA

The Larson Electronics EPL-PT-150LED-RT-140DB-480V Pole Top Slip Fitter LED light fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. Cree LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. This explosion proof slip fitter operates on 347-480V AC.

This Class 1 Division 1 & 2, Class 2 Division 1 & 2 pole top slip fit mount explosion proof light fixture provides 17,500 lumens of high quality light while drawing only 150 watts. 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 this fixture 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 older fixtures and requires less hardware to install. The EPL-PT-150LED-RT-140DB-480V pole top slip fit mount explosion proof light 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 this explosion proof LED light to their specific pole size. The wiring of the EPL-PT-150LED-RT-140DB-480V is terminated in a junction box with 3/4" threaded hub. Operators can run rigid pipe or flexible conduit to the junction box, terminating the electrical connections within.



Guard Sold Separately

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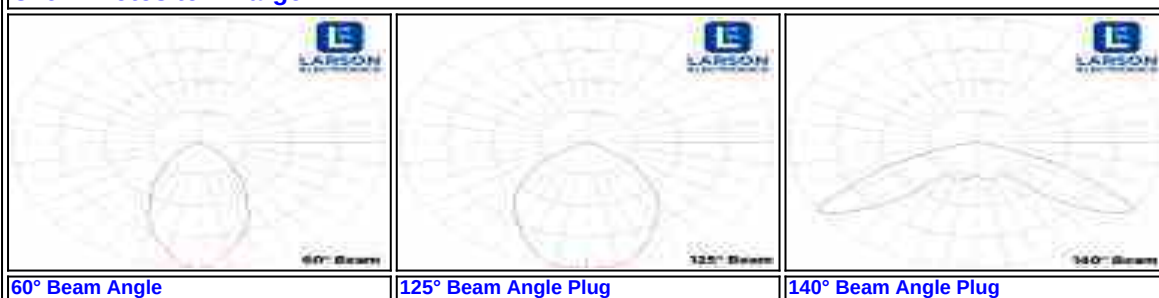
The explosion proof LED light fixture features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twelve individual LED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

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 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 LED luminaries. The LED lamp produces 17,500 lumens 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 lamp is T5 temperature rated, Design Lights Consortium approved, and the LED light head retains 80% of its lumen output after 60,000 hours of use, far longer than incandescent or fluorescent lamps.

[Click Photos to Enlarge](#)



Beam Angles: When used as a fixed mount fixture, 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 (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.

The EPL-PT-150LED-RT-140DB-480V yoke mount explosion proof LED flood light is universal voltage capable and can be operated with 347-480 VAC without modifications. 347V is common in Western Canada, while 480V is common in the United States and Eastern Canada. We also offer a high voltage model that operates on 120-277 volts AC 50/60 Hz and a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 volts AC/DC, [please click here for 120-277V AC and 11-25V AC/DC models](#).

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.

The entire assembly is ETL listed Class 1, Divisions 1-2 and Class 2, 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 any application that requires a Class 1 Division 1 pole top light fixture.

Mounting Notes: The EPL-PT-150LED-RT-140DB-480V pole top slip fit mount explosion proof light 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.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MV.
5. Retains 80% lumen output after 60,000 operating hours.
6. Powder coated aluminum fixture body.
7. Slip fit yoke mount for easy installation.
8. Low profile - Light weight
9. 17,500 Lumen output from only 150 watts
10. 347-480V AC Universal Voltage

Superior LED Benefits

1. 60,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-Spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off – No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.



Frequently Asked Questions (FAQ)









EPL-PT-150LED-RT-140DB-480V

Product ID: 105566

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-PT-150LED-RT-140DB-480V-Mount

Example: EPL-PT-150LED-RT-140DB-480V-1.5in

Mount	
1 1/2	-1.5in
2	-2in
2 1/4	-2.25in
2 1/2	-2.5in
2 3/4	-2.75in
3	-3in

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [IES \(Photometric File\)](#)
- [Operations Manual](#)
- [STEP File \(3D CAD Model\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
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- [Video1](#)
- [Video2](#)
- [Video3](#)
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- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)