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## EPL-CPT-150LED-RT-140DB-WG

# 150W Explosion Proof Pole Top Mount Lightweight LED Light Fixture - Slip Fitter Yoke -140° Spread

**Product ID: 144420**

**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-CPT-150LED-RT-140DB-WG Pole Top Slip Fit Mount**

**Listing: United States - Canada**
**Lamp Type: Cree LED**
**Dimensions:** 16"-W x 22"-H x 18"-D
**Weight:** 37 lbs
**Voltage:** 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC
**Total Watts:** 150W
**Total Lumens:** 17,500
**Luminous Efficiency: 11**6.67 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
**Wiring:** Flying Leads inside Junction Box

**Ratings/Approvals - Quick Summary**

Listed for United States and Canada
Class I Divisions 1 & 2, Groups C and D
Class II Divisions 1 & 2, Groups E, F and 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
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**

**Wiring Hub:** 3/4" NPT

Contact us for special requirements
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**E-mail:** sales@larsonelectronics.com

## Made in the USA

**The Larson Electronics EPL-CPT-150LED-RT-140DB-WG 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 Class I Division 1 & 2, Class II 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-CPT-150LED-RT-140DB-WG pole top slip fit mount explosion proof light features an adjustable swivel bracket constructed of 3/8" aluminum that allows 270° of adjustment and an improved center of gravity and lighter weight. It 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 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.

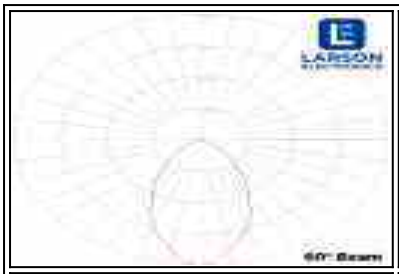
The explosion proof LED light fixture features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twelve individual LED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

**LED Benefits:** Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

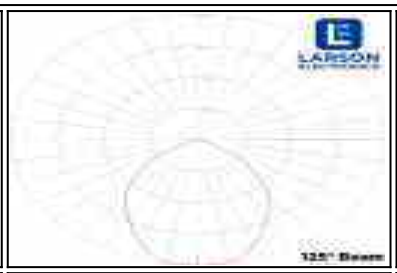
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

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 70 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.

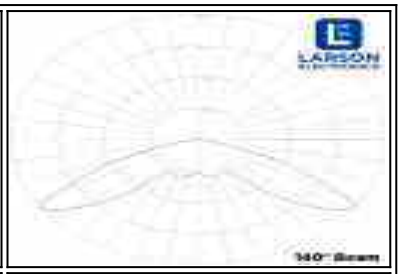
**Click Photos to Enlarge**



60° Beam Angle



125° Beam Angle Plug



140° Beam Angle Plug

**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**

| | Metal Halide | LED |
|---|---|---|
| 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-CPT-150LED-RT-140DB-WG yoke mount explosion proof LED flood light is universal voltage capable and can be operated with 100-277 VAC, 50/60Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts. 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.
This LED light produces 17,500 lumens with a color temperature of 5600K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. 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-CPT-150LED-RT-140DB-WG 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.

**Superior LED Benefits**

1. 60,000 hour lifespan.
2. Can SAVE 50% or more on energy.

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

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.

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# Frequently Asked Questions (FAQ)









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**EPL-CPT-150LED-RT-140DB-WG**

**Product ID: 144420**

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

**Options:**

**EPL-CPT-150LED-RT-140DB-WG-Voltage-Mount**

**Example: EPL-CPT-150LED-RT-140DB-WG-1227-2in**

| Voltage | |
|---|---|
| 120-277V AC | -1227 |
| 11-25V AC/DC | -1224 |

| Mount | |
|---|---|
| 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):

- **IES (Photometric File)**
- **Operations Manual**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **Video2**
- **Video3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**