

80W Explosion Proof Low Profile LED Fixture - C1D1, C2D1 - 10,800 Lumens - Aluminum Pole Mount

Part #: [EPL-LP-48-LED-APM](#)



The EPL-LP-48-LED-APM from Larson Electronics is a Low Profile Explosion Proof Light Fixture that provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. Mounted on an aluminum pole, this explosion proof LED light has a T5 temperature rating and is approved for use in United States and Canada markets. The 80-watt LED unit is equipped with terminal strips for wiring.

This Class I Divisions 1 & 2, Class II Divisions 1 & 2 low profile explosion proof light fixture provides 10,800 lumens of high quality light while only drawing 80 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 at the 60,000 hour mark. 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-LP-48-LED-APM from Larson Electronics is an integrated low profile linear explosion proof LED light fixture with a unique design. Instead of using diffused glass, optics, or reflectors to distribute the light, Larson Electronics has positioned the boards within the fixture to provide a wide area light without sacrificing quality or light output. Two offset LED assemblies within the fixture allow this explosion proof linear lamp to provide a brilliant 100° horizontal beam spread and 140° vertical beam spread while achieving a 10,800 lumen output to maintain a small form factor. The LED assembly is protected behind a tempered borosilicate glass tube that is protected by an aluminum wire guard to prevent from accident damage to the light fixture.

Measuring only 6.89" in width, this fixture takes up half the surface area as a standard four foot 2-lamp explosion proof fixture. When compared to our EPL-48-2L-T5HO fixture, the EPL-LP-48-LED-APM fixture produces twice the light output while taking up less than half the surface area. The EPL-LP-48-LED-APM is an ideal for applications with little space where low profile fixtures are required.

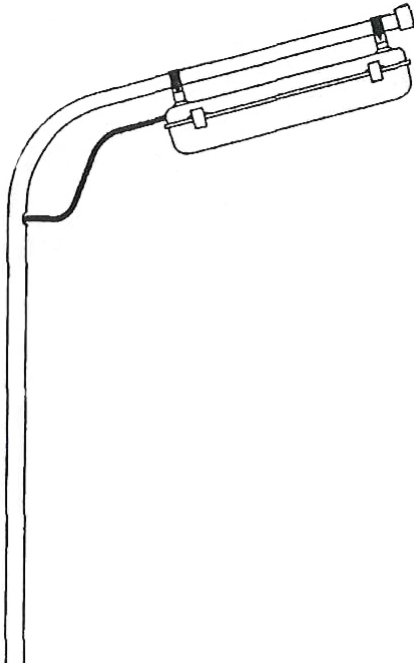
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive 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.

This light is universal voltage capable and can be operated with 100-277V 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.

This LED light produces 10,800 lumens with a color temperature of 5000K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We also offer a 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures).

Wiring: These LED light fixtures are equipped with terminal strips. Electricians bring customer supplied wire to the terminal strips on the fixture for power connection. The wiring of these terminal strip equipped units must be conducted via wiring methods laid out in NFPA 70 / NEC Code Book Article 500. This unit is a factory sealed fixture.



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Mount: This pole mount fixture is equipped with two aluminum bar clamps to allow operators to secure the light fixture to existing poles. This two-piece clamp provides easy installation. Size options for the pole include the following: 1 inch, 1-1/2 inch, 2 inch, 2-1/2 inch, and 3 inch. The sizes are based on the mounting pipe OD, and the bracket is designed to properly fit the pipe.

Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste water treatment plants, gas processing plants, offshore applications, oil tankers, mud tanks, sand mines, mining, cold weather applications.

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 for more information about our custom options tailored to meet your specific industry needs.

Specifications / Additional Information

EPL-LP-48-LED-APM Explosion Proof Low Profile LED

Lamp Type: LED

Listing: United States, Canada, Europe, Asia

Dimensions: 53.78"L x 6.89"W x 7.57"H

Lamp Weight: 22 lbs

Ratings/Approvals

Class I, Divisions 1 & 2, Groups C and D; T5

Class II, Divisions 1 & 2 Groups E, F and G; T5

Class III, Divisions 1 & 2; T5

Certified to UL 844 Ed. 13

Voltage: Universal 100-277V AC, 50/60Hz

Certified to UL 1598

Total Watts: 80W

Certified to UL 8750

Lumens: 10,800

Certified to C22.2 No. 137 Rev 2014

Luminous Efficacy: 135 Lm/W

Certified to C22.2 No. 250.0

Lamp Life: 60,000+ Hours

Certified to C22.2 No. 250.13

Color Temp: 5000K, 4500K or 3000K

T5 Temperature Rating

Color Rendering Index: >75 CRI

Paint Spray Booth Approved

Beam Angle: 100° Horizontal, 140° Vertical

Factory Sealed Light Fixture

Lighting Configuration: Wide Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

Amperage: 0.67A @ 120V, 0.33 @ 240V, 0.29 @ 277V

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

Operating Temp Rating: T5

Housing Material: Copper Free Cast Aluminum

Lens Material: Hardened Borosilicate Glass

Mounting: Aluminum Pole Mount

Pole OD Options: 1", 1.5", 2", 2.5" or 3"

Wiring: Terminal Strips

Wiring Hub: 3/4" NPT

Special Orders- Requirements

Contact us for special requirements

Phone: 1-214-616-6180

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

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Options:

EPL-LP-48-LED-APM- POLE OD - COLOR TEMP

Example: EPL-LP-48-LED-APM-1in-50K

POLE OD		COLOR TEMP	
1 inch	-1in	5000K	-50K
1-1/2 inch	-1.5in	4500K	-45K
2 inch	-2in	3000K	-30K
2-1/2 inch	-2.5in		
3 inch	-3in		



Links (Click on the below items to view):

- [Hi-Res Image 1 - Explosion Proof Low Profile LED Fixture](#)
- [Hi-Res Image 2 - Explosion Proof Low Profile LED Fixture](#)