

EPL-24-2L-LED-PNSF

Explosion Proof LED Light - 2', 2 Lamp - C1D1 - C1D2 - C2D1 - C2D2 - Pendant and Surface Mounts

Product ID: 150041

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



Image: EPL-24-2L-LED-PNSF

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-24-2L-LED-PNSF Explosion Proof LED Light

Wiring Hub: 1/2" NPT
Dimensions: 11.25"W x 27.5"L x 8.5"H
Weight: 32 Lbs
Voltage: Universal 120-277V AC, 50/60 Hz or 11-25V AC/DC
Total Watts: 28 Watts
Total Lumens: 3,500
LED Lamp Life Expectancy: 50,000+ Hours
Luminous Efficiency: 125 Lumens per Watt
Color Temp: 5600K, 4500K or 3000K
Color Rendering Index: >80
Beam Angle: 150°
Power Efficiency: 90%
Power Factor: >0.95
Ambient Operating Temp Range: -30°C to +85°C
Operating Temp Rating: T6 Rated
Minimum Operating Temp: -30°C
Maximum Case Temp: +90°C
Housing Material: Cast Aluminum End Caps, Aluminum Reflectors - Copper Free
Lens Material: Hardened Borosilicate Glass Tubes
Gasket Material: Buna Rubber O-Rings
Mounting: Surface Standard - Pendant Optional

Approvals/Ratings

Class I Division 1 Groups C and D
Class I Division 2 Groups A, B, C and D
Class II Divisions 1 & 2, Groups E, F and G
NRTL Certified to UL 595 Marine Type (Saltwater)
NRTL Certified to UL 844
NRTL Certified to UL 1598 Marine Type
Certified Canadian Standards
Listed for Paint Spray Booths
California Title 24 Compliant
IP67 Rated - Waterproof
T6 Temperature Rating
NEMA 4X
LEL Listed LED Lamps
Approved for Confined Spaces
Silicone Free
Factory Sealed Fixture
Made in the USA
NRTL Listed for United States & Canada

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

Made in the USA

The EPL-24-2L-LED-PNSF from Larson Electronics is an Explosion Proof LED Light Fixture is NRTL Listed for United States and Canada Class I Divisions 1 & 2 and Class II Divisions 1 and 2 for areas where flammable chemical/petrochemical vapors exist or have the potential to exist. This explosion proof LED light has a T6 temperature rating and carries a paint spray booth light certification, making it ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants.

This two foot, two lamp LED fixture is ideal for operators seeking a top quality explosion proof light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The EPL-24-2L-LED-PNSF is equipped with Larson Electronics' specially designed LED T-series bulbs which produce 3,500 lumens, resulting in 30% more foot candles of illumination at 8 feet as compared to standard T8 lamps when measured with an Extech light meter. Our LED-T series bulbs are visibly brighter than standard F17/T8's and have consistently surprised many of our customers with their unexpectedly high light output levels.

This fixture carries a T6 temperature rating and is approved for Class I Division 1, Groups C and D, Class I, Division 2, Groups A, B, C and D, and Class II, Divisions 1 and 2, Groups E, F and G environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist. This LED linear fixture is approved for use in confined spaces. [Click here to read the NEC description for explosion proof and hazardous locations.](#)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

We have eliminated the ballast box normally associated with explosion proof fluorescent fixtures which reduces overall weight and overall complexity of installation. There is no ballast in this unit and the included [LEDT8-24-V1](#) LED lamps have a 50,000+ hour service life, both of which result in extreme efficiency and greatly reduced maintenance costs. These fluorescent LED lamps have internal drivers, eliminating external power components. The solid state design of the LED lamps give this fixture superior resistance to damage from vibration, extremes in temperature and a lamp service life over twice that of standard fluorescent bulbs. This second generation lamp is offered in 5600K cool white, 4500K natural white, and 3000K warm white. Our standard unit ships with 5600K unless different color temperature is specified.

Unlike the glass tube design of traditional fluorescent lamps, these LED T-Style lamps have no filaments or fragile housings to break during operation. Instead of 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. The LED assembly is mounted to the "tube" constructed from extruded aluminum, with a polycarbonate lens protecting the LEDs. 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 fluorescent 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 fluorescent lighting.

The 14 watt LED lamps produce 30% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. Each lamp produces 1,750 lumens at 125 lumens per watt, for a combined 3,500 total lumen light output. An EPL-24-2L-T8 explosion proof fluorescent light, with a combined total of 34 watts, draws 0.29 amps at 120 volts AC. This LED version of the same light, with a total of 28 watts, draws only 0.23 amps at 120 volts AC. The EPL-48-2L-LED is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. We also make a 12/24V AC/DC version for low voltage applications for AC or DC power.

Energy Consumption Comparison

	<u>T5HO</u>	<u>T8</u>	<u>LED</u>
Wattage	48 watts	34 watts	28 watts
Amp Draw @ 120V AC	0.40 amps	0.29 amps	0.23 amps
Amp Draw @ 220V AC	0.22 amps	0.16 amps	0.13 amps
Amp Draw @ 240V AC	0.20 amps	0.14 amps	0.12 amps
Amp Draw @ 277V AC	0.18 amps	0.13 amps	0.10 amps
Amp Draw @ 12V DC	4 amps	2.84 amps	2.34 amps
Amp Draw @ 24V DC	2 amps	1.42 amps	1.17 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours
Operation cost per year (12hs/day @ 12c/kWh)	\$25.23	\$14.87	\$14.72

Our EPL-24-2L-LED-PNSF LED light fixture is NRTL Listed for United States and Canada, approved for use in paint spray booths. Please note, according to the NEC, using threaded rigid pipe does not require additional seal offs with this fixture. An EYM and seal off is necessary for flex conduit or other non-rigid pipe implementations.

Standard Bracket Mounts: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single bolt hole at the top of the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg.

This fixture ships with both pendant and surface mount. It comes equipped with surface mount but is

shipped with a pendant mount leg. The installer swaps out the surface mount leg for the pendant mount leg to pendant mount the fixture.



Surface Mount (Standard)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

Adjustable Surface Mount Brackets: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single bolt hole at the top the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg.



Pendant Mount (Optional)



[Click Photo to Enlarge](#)



3 Conduit Positions



[Click Photo to Enlarge](#)

Suspension Mounting: Pendant mount fixtures hang from the ceiling and are suspended by rigid

pipe. Each fixture features a 1/2" NPT junction box on one end, and a 1/2" NPT adjustable L-bracket on the other end of the fixture. Operators bring rigid pipe down to the threaded mounting hubs. Wiring is fed down through the rigid pipe to the junction box and tied in to the fixture's lead wires, completing the electrical connection. The adjustable L-shape mounting bracket provides support for the opposite end of the fixture.

Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, gas processing plants.

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.



Frequently Asked Questions (FAQ)

There are no Faqs



Image: EPL-24-2L-LED-PNSF



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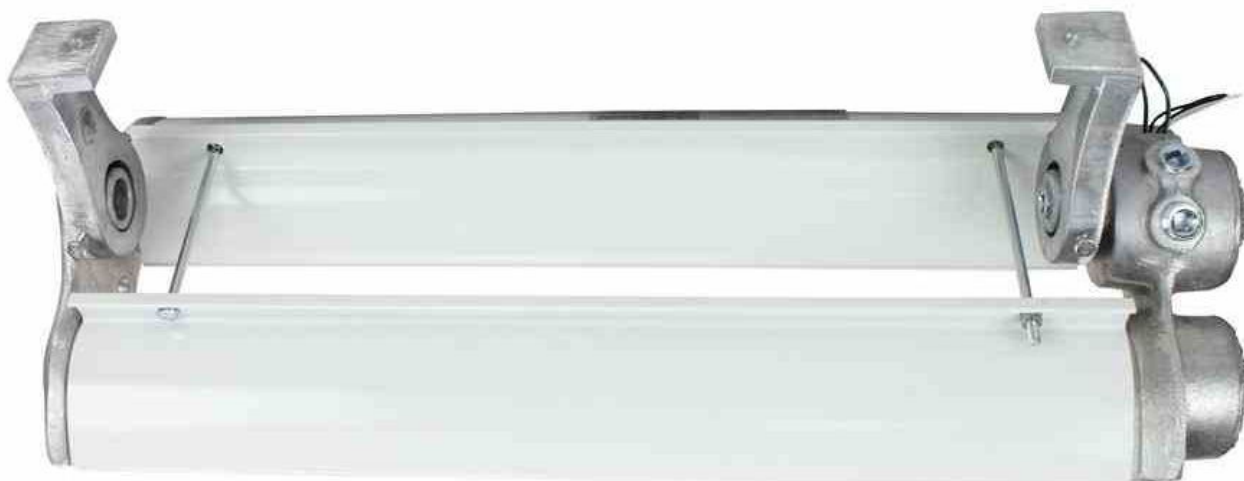


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Product ID: 150041

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-24-2L-LED-PNSF-Voltage-Color Temp

Example: EPL-24-2L-LED-PNSF-1227-56K

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

Color Temp	
5600K	-56K
4500K	-45K
3500K	-35K



Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(<https://www.larsonelectronics.com/images/product/CECCert/150041.PDF>)
- **IES (Photometric File)**(<https://www.larsonelectronics.com/images/product/ies/150041.ZIP>)
- **MSDS (Material Safety Data Sheet)**(<https://www.larsonelectronics.com/images/product/Msds/150041.PDF>)
- **Operations Manual**(<https://www.larsonelectronics.com/images/product/Manual/150041.PDF>)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(<https://www.larsonelectronics.com/images/product/NECCert/150041.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/150041.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/150041.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/150041.JPG>)
- **HigResPic4**(<https://www.larsonelectronics.com/images/product/HigResPic4/150041.JPG>)
- **HigResPic5**(<https://www.larsonelectronics.com/images/product/HigResPic5/150041.JPG>)
- **Video1**(<https://www.youtube.com/watch?v=pmWdNnyf9w>)
- **Video2**(<https://www.youtube.com/watch?v=K9Md6acPtHQ>)
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