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EPL-LP-24-LED-SFC.LP-1224

40W Explosion Proof Extra Low Profile LED Fixture - C1D1&2 - C2D1&2 - Installs Flush - 12/24 V AC/DC

Product ID: 321901

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



Image: EPL-LP-24-LED-SFC.LP-1224

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-LP-24-LED-SFC.LP-1224 Explosion Proof Extra Low Profile LED

Lamp Type: LED
Listing: United States, Canada
Dimensions: 32.375"L x 3.875"W x 4.75"H
Weight: 22 lbs
Voltage: Universal 12-24V DC / AC, 50/60Hz
Total Watts: 40W
Lumens: 5,400
Luminous Efficacy: 135 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5000K, 4000K or 3000K
Color Rendering Index: >75 CRI
Beam Angle: 100° Horizontal, 140° Vertical
Lighting Configuration: Wide Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992

Ratings/Approvals

Class I, Division 1 , Groups C and D
Class I, Division 2, Groups A, B, C, D
Class II, Divisions 1 & 2 Groups E, F and G
Class III, Divisions 1 & 2
T6 Temperature Rating
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
Certified to C22.2 No. 137 Rev 2014
Certified to C22.2 No. 250.0
Paint Spray Booth Approved
Factory Sealed Light Fixture

Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T6
Housing Material: Copper Free Cast Aluminum
Lens Material: Hardened Borosilicate Glass

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671

Mounting: Low Profile L Brackets w/ Adjustment Angle Ring
Wiring: Terminal Strips
Wiring Hub: 3/4" NPT

Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The EPL-LP-24-LED-SFC.LP-1224 from Larson Electronics is an Extra Low Profile Explosion Proof Light Fixture that provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. This explosion proof LED light has a T6 temperature rating and carries a paint spray booth, and is approved for use in United States and Canadian markets. It is ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants where a where flammable gases, vapors, or dusts exist or stand the potential to exist. The EPL-LP-24-LED-SFC.LP-1224 is equipped with terminal strips for wiring and features an extra low profile surface mount bracket that allows it to be installed virtually flush with the mounting surface.

This Class I Divisions 1 & 2, Class II Divisions 1 & 2 extra low profile explosion proof light fixture provides 5,400 lumens of high quality light while only drawing 40 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.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

The EPL-LP-24-LED-SFC.LP-1224 from Larson Electronics is an integrated extra 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 5,400 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 two foot 2-lamp explosion proof fixture. The surface mount fixture`s overall height with adjustable surface mount bracket is 4.75", including the surface mount bracket itself, making the EPL-LP-24-LED-SFC.LP-1224 one of the lowest profile explosion proof light fixtures on the market. When compared to our EPL-24-2L-T5HO fixture, the EPL-LP-24-LED-SFC.LP-1224 fixture produces twice the light output while taking up less than half the surface area. The EPL-LP-24-LED-SFC.LP-1224 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 5,400 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 4000K natural white color temperature options (longer lead times may apply for non-standard temperatures). The EPL-LP-24-LED-SFC.LP-1224 is offered with pendant or surface mounting options.

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.

Adjustable Surface Mount Brackets: Each low profile L-shape bracket is machined with three holes per bracket to attach to the light fixture. The angle of the bracket is set by aligning the machined set screw holes on the mounting bracket with with index holes attached to the fixture. The bracket itself is mounted via two 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 removing the set screws that hold the bracket to the mounting bracket and adjusting the fixture. The fixture can be adjusted at 15° intervals.

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.

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Frequently Asked Questions (FAQ)

There are no Faqs



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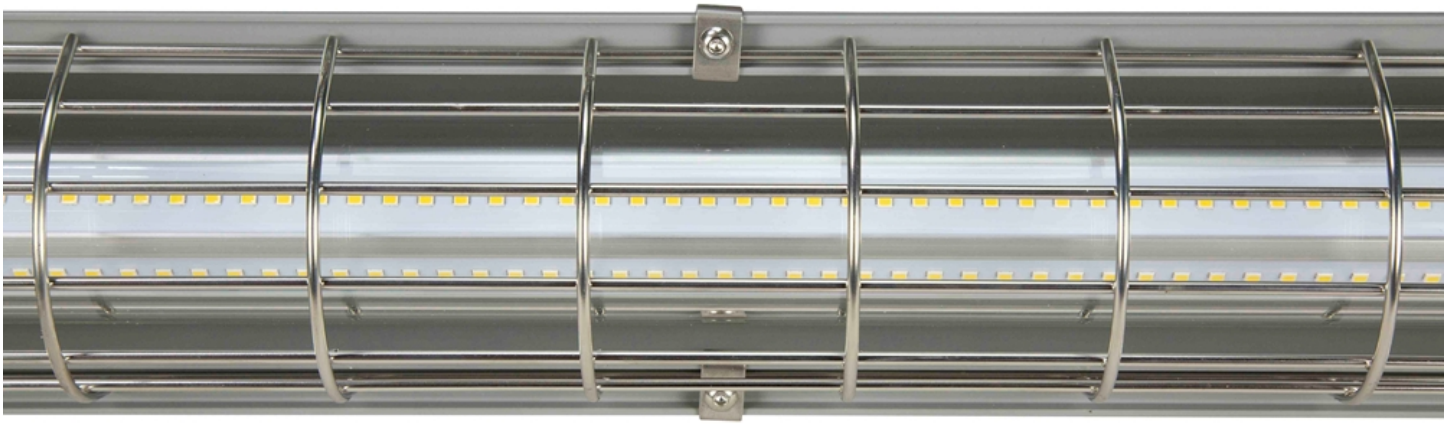


Image: EPL-LP-24-LED-SFC.LP-1224

EPL-LP-24-LED-SFC.LP-1224

Product ID: 321901

Export Control Classification Number (ECCN): EAR99

Options:

EPL-LP-24-LED-SFC.LP-1224-Color Temp
Example: EPL-LP-24-LED-SFC.LP-1224-50K

Color Temp	
5000K	-50K
4500K	-45K
3000K	-30K

Links (Click on the below items to view):

- **IES (Photometric File)**(https://www.larsonelectronics.com/images/product/ies/321901.ZIP)
- **Photometric Polar Graph**(https://www.larsonelectronics.com/images/product/PolarGraph/321901.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/321901.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/321901.JPG)
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- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/321901.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/321901.JPG)
- **Video1**(https://www.youtube.com/watch?v=340qEAxtI6s)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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