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EPL-24-2L-LED-EYS-100C-EPP

28W Explosion Proof Two Lamp LED Fixture - C1D1&2 - C2D1&2 - 100' 16/3 SOOW Cord w/ EYS Sealoff

Product ID: 149887

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-24-2L-LED-EYS-100C-EPP Explosion Proof LED Light w/ EYS Sealoff

Cord Cap Options: 5-15P, 5-20P or 6-20P
Dimensions: 11.25"W x 27.5"L x 8.5"H
Weight: 32 Lbs
Voltage: Universal 120-277VAC 50/60 Hz
Total Watts: 28 Watts
Total Lumens: 3,500
LED Lamp Life Expectancy: 50,000+ Hours
Luminous Efficiency: 125 Lm/W
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
Wiring: EYS Sealoff - 100` 16/3 SOOW Cord w/ Explosion Proof Cord Cap

Ratings/Approvals

Class I Division 1 Groups C & D
Class I Division 2 Groups A, B, C & D
Class II Divisions 1 & 2, Groups E, F & 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
NRTL Listed for United States & Canada
Made in the USA

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
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Made in the USA

The EPL-24-2L-LED-EYS-100C-EPP from Larson Electronics is an Explosion Proof LED Light Fixture with EYS Sealoff that 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-48-2L-LED-20C-EPP 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. The EPL-24-2L-LED-EYS-100C-EPP also features an EYS sealoff along with 100` of 16/3 SOOW cable and a choice of explosion proof cord cap.

This fixture carries a T6 temperature rating and is approved for Class I Division 1, Groups C and D, Class I, Division 2, Group 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.

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 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-24-2L-LED-EYS-100C-EPP is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications.

Energy Consumption Comparison

	T5HO	T8	LED
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
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-EYS-100C-EPP LED light fixture is NRTL Listed for United States and Canada, approved for use in paint spray booths.
Mounting Options: Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown enlarged below. We also offer a pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit). Additional mounting configurations can be customized to meet the requirements on the application. Please contact us for special mounting configurations.



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.

Click Photos to Enlarge



5-15 Straight Blade Plug



5-20 Straight Blade Plug



6-20 Straight Blade Plug

Wiring & Plug: This explosion proof LED light is equipped with an EYS sealoff and 100 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an explosion proof cord cap for easy connection to explosion proof outlets. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240V explosion proof outlets. ***PLEASE NOTE** voltage ratings on plugs and outlets are MAXIMUM voltage. For low voltage applications, proper voltage must be applied to the outlet or damage to the light fixture will occur.*
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.

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Frequently Asked Questions (FAQ)



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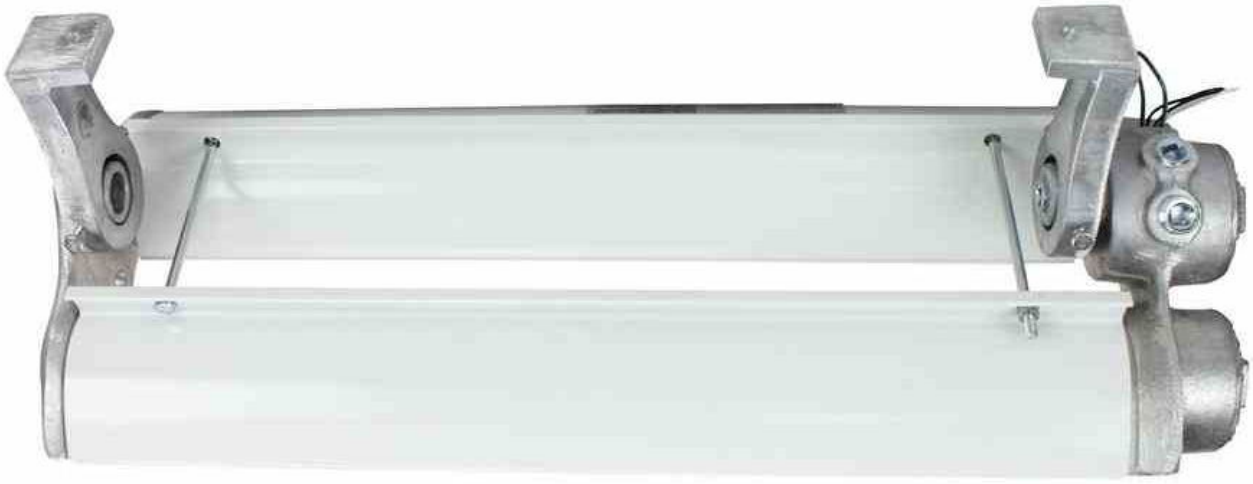

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Product ID: 149887

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-24-2L-LED-EYS-100C-EPP-Mounting-Cord Cap-Color Temp

Example: EPL-24-2L-LED-EYS-100C-EPP-SFC-1523-56K

Mounting	
SURFACE	-SFC
PENDANT	-PND

Cord Cap	
5-15P	-1523
5-20P	-2023.125V
6-20P	-2023.250V

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)**
- **MSDS (Material Safety Data Sheet**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**