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EPL-24-2L

Explosion Proof Fluorescent Lights for Paint Booths, Oil Rigs, Boats -2 foot - 2 lamp -Multi-voltage

Product ID: 1797

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 Explosion Proof

NRTL Listed for United States & Canada

Dimensions: W-11.25" L-27.5" H-8.5 "

Weight: 55 Lbs

Total Watts: 48 watts*

Voltage: Multi- 120V-60hz 220V-50hz 240V-60hz 277V-60hz

Total Lumens: STD-T5-HO Bulbs 4000

Lamp Life Expectancy: STD-T5-HO Bulbs 20,000 Hours

Efficiency: STD-T5-HO Bulbs 83 Lumens per Watt

Ambient Operating Temp Range:-30 C to 70 C

Beam Angle: N/A

Color Temp: 4100K-

Mounting: Bracket Standard - Pendant Optional

Wiring Hub: 1/2 inch threaded

Operating Temp Rating: T6 Rated

Minimum Operating Temp: -30 C

Maximum Case Temp: 90 C

*Wattage totals are lamps only and may vary with different lamps.

Ratings

Class 1 Division 1, Groups C and D

Class 1 Division 2, Group A,B,C,D

Class II Division 1- 2, Groups E,F,G

NRTL Certified to UL 844, 924

NRTL Certified to UL 1598 Marine Type

NRTL Certified to UL 595 Outdoor Marine Type (Saltwater)

Listed for Paint Spray Booths*

California Title 24 Compliant

Special Orders - Special Requirements

Contact us for special requirements

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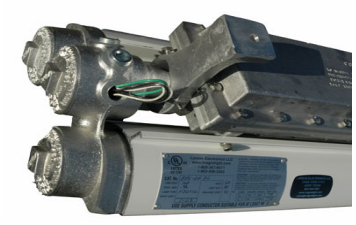
Made in the USA

The Larson Electronics EPL-24-2L Explosion Proof Fluorescent Light Fixture is NRTL Listed for United States and Canada Class 1 Division 1, Class 2 Division 1 and for hazardous locations where flammable chemical/petrochemical vapors exist or have the potential to exist.

The EPL-24-2L fixture is a 2 foot long, 2 lamp, Class 1 Division 1 and Class 2 Division 1 & 2 explosion proof fluorescent light and an ideal choice for use in applications where space is at a premium. This T6 temperature rated fixture comes standard with F24-T5/HO lamps and is available with a variety of lamp options which are listed below. The lamps are protected by heat and impact resistant Pyrex tubes and the fixture is constructed of copper free aluminum alloy. The lamp reflectors are corrosion resistant heavy gauge aluminum and coated with a high gloss reflective finish. This fixture is multi-voltage capable and for use in paint spray booths.

The EPL-24-2L provides operators in hazardous locations with a compact, reliable and affordable lighting solution that provides the best explosion proof protection available without sacrificing light quality or fixture durability.

Click here to see the LED version of this fixture



Click Photo to Enlarge



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Click Photo to Enlarge

NOTE ON LAMPS: We offer a choice of bulbs with all of our explosion proof fluorescent fixtures. We standardize on the T5HO bulbs mostly for their longevity and high output. However, many of our customers, including Naval bases, shipyards, oil rigs and petrochemical processing plants operate in very cold conditions and T12HO bulbs operate well in those environments. The T12VHO, 110 watt Very High Output lamps make this fixture an ideal replacement for 400 watt metal halide surface mount fixtures in hazardous location areas requiring Class 1 Division 1 rated lights. *However, the 110 watt T12VHO lamp configuration is not appropriate for paint spray booth applications.

Additional mounting options: Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown in the photos above. 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).

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 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. The first picture shown above illustrates the ballast side bracket and also shows the access caps for changing the bulbs. The second picture shows the bracket at the opposite end of the fluorescent light.

Made in USA Quality

1. Each unit dialectically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost. Adjustable mounting brackets enable the operator to choose any mounting angle for the fixture, where other models may only offer one or three choices.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Over-sized, finned ballast housing for 800 mA fixtures

Lamp Options

F24-T5HO – 2000 lumens per bulb (4000 lumens total), 20,000 hours life, 5000 Kelvin color, CRI 85 RHA-UNV-254-LT5 Ballast is THD<10% and HPF .98

F24-T12/HO – 1650 lumens per bulb (3300 lumens) 9,000 hours life, 4100 Kelvin color

F17-T8 – 1325 lumens per bulb (2650 lumens total), 24,000 hours life, 4100 Kelvin color

provides more heat dissipation and extends ballast life.
Ballast housing easily accessible and externally mounted. Top and bottom covers secured with nuts and bolts, instead of threaded through holes, which can be damaged with dirt.
5. Heavy gauge extruded aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
6. A wrench is used to unscrew the end caps for relamping the fixture, while other models require the “tap and knock off” method to loosen the end cap.
7. Explosion proof, impact and heat resistant Pyrex tubes provide lamp protection.

F24-T12-D-HO – 1650 lumens per bulb (3300 lumens), 9,000 hours life, 5100 Kelvin color (76 CRI - Color Rendition) - This specialty lamp is designed to mimic daylight conditions. For paint spray booth operators requiring a brighter color light than a traditional "cool white", this bulb can be useful.
Note: There is some confusion on T-12 bulbs. There are 2 types of T-12 bulbs. The older T-12 bulbs ran on magnetic ballasts. Those ballasts have vanished and the T-12 bulbs that work with those ballasts are vanishing as well. All of our explosion proof fluorescent fixtures use electronic ballasts and the F48-T12/HO bulb is widely available and low cost to replace. We use Philips bulbs and they plan to continue the T-12 series indefinitely, as does GE. In fact, GE is now selling an electronic ballast replacement for T12 based fixtures that formerly operated with their magnetic ballasts.

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Frequently Asked Questions (FAQ)

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AC BAL
EMERGENC



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EPL-24-2L

Product ID: 1797

Export Control Classification Number (ECCN): EAR99

Options:

EPL-24-2L-Lamp Types-Mount

Example: EPL-24-2L-T12HO-SFC

Lamp Types	
T12HO	-T12HO
T8	-T8
T5	-T5
T12DLHO	-T12DL
B40	-B40

Mount	
SURFACE	-SFC
PENDANT	-PND

Links (Click on the below items to view):

- Dimensional Drawing 2D
- IES (Photometric File)
- MSDS (Material Safety Data Sheet
- Operations Manual
- Solidworks EASM File
- SpecSheetArabic
- SpecSheetFrench
- SpecSheetSpanish
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map