

EPL-48-4L-UV

Explosion Proof 160 W Class 1 & 2 Fluorescent UV Light With 4 Lamps - Class 1 Division 1

Product ID: 71471

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-48-4L-UV Explosion Proof Ultraviolet

NRTL Listed for United States & Canada

Dimensions: W-25.241" L-52.262" H-9.82 "

Weight: 65Lbs

Total Watts: 160 watts - (4) 40 watt lamps

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

Total Intensity: 32.4 mW - (4) 8.1 mW lamps

Lamp Life Expectancy: 5,000 hrs

Efficiency: T8 UV Bulbs:N/A

Ambient Operating Temp Range: -20C to 70C

Operating Temp Rating: T6 Rated

Minimum Operating Temp: -20 C

Maximum Case Temp: 70 C

Beam Angle: N/A

Color: Ultraviolet- 400nm-315nm,315nm-280nm, 280nm-100nm

Mounting: Bracket Standard - Pendant Optional

Wiring Hub: 1/2 inch threaded

*Wattage totals vary with different lamp options.

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)

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-48-4L-UV 160 Watt Explosion Proof UV Fluorescent Light

Fixture is NRTL Listed for United States and Canada for Class 1 Division 1 & 2 and Class II Division 1 & 2. This fixture uses a special ballast and bulb combination to produce ultraviolet light. This lamp is T6 rated and ideal for hazardous locations where UV lamps are used to cure coatings and adhesives or as germicidal agents.

*****PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE*****

The EPL-48-4L-UV fixture is a 4 foot long, 4 lamp, Class 1 Division 1 Groups C & D, Class 1 Division 2 Groups A, B, C & D, and Class II Division 1 & 2 Groups E, F, and G explosion proof fluorescent light that emits light in the ultraviolet spectrum. The EPL-48-4L-UV is made to order and can be configured to produce UVA, UVB or UVC light and is typically used for curing coatings or adhesives, pest management, and germicidal applications. The 4 UV 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 coated with a high gloss reflective finish. This fixture can operate on voltages ranging from 120V-277V 50/60Hz and is for use in paint spray booths and wet locations.

The EPL-48-4L-UV can be configured for UV-A, UVB or UV-C light. Typical applications for UVA are paint curing, resin curing, and non destructive inspection. UV-B lights are typically used in medical applications, such as sterilizing surgical equipment, and UV-C is typically used in germicidal applications, such as disinfection of surfaces and water purification.

The EPL-48-4L-UV Explosion Proof Light Fixture is a quicker and more efficient alternative to the traditional solvent and water drying thermal curing process. The UV curing processes is much quicker than the alternative method and is more abrasion resistant, has no loss of coating thickness, and produces less environmental pollutants. The quick curing of UV lights most importantly eliminates the chances of dust and pollutants entering the coated surface, which increases the overall production speed of the curing process.

This Class 1 & 2, Division 1 & 2 UV light fixture can be used for non-destructive testing, commonly found in radiology, aviation, power plants, manufacturing, pipelines, and food processing applications and is a method of inspection which uses UV light to detect deficiencies (i.e., cracks) in a particular element, part of a system, or a whole system. Non-destructive testing is a useful instrument for testing the properties of a particular material without causing permanent damage to the material itself. This inspection method is utilized in many industrial fields, such as in welding, where the processes can be used to detect unseen cracks that can potentially lead to structural fatigue.

This fixture can be used for ultraviolet light inspection in the food processing industry to check for physical defects and other aberrations in food, such as the existence of bugs or other contaminants. Application of UV lights to foods not only helps indicate potential defects in food, it also helps remedy the problem by killing these unwanted pathogens and ensuring that each food item meets consumer expectations and quality control.

The EPL-48-4L-UV provides operators in hazardous locations with a reliable and durable UV lighting solution that combines effective production of UV light with explosion proof protection and is applicable for leak detection, paint spray booths, ink, coatings, and adhesive curing, and germicidal applications, as well as for non destructive testing for inspection, i.e., food manufacturing and sanitation.

Ultraviolet Wavelength Options: Ultraviolet A Wavelength produces a longer wave between the 400nm - 315nm spectrum.

Ultraviolet B Wavelength produces a shorter wave than the UVA wavelength.

These medium sized waves range from 315nm - 280nm.

Ultraviolet C wavelength is reduced exceptionally. Some refer to this wave as the `germicidal` wave. The Ultraviolet C Wavelength ranges from 280nm - 100nm.



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

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 mountings.

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.

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.

This fixture is NRTL Listed for Class I, Division 1 Groups C and D, Class I, Division 2 Groups A, B, C and D, Class II, Division 1 and 2, Groups E, F and G.

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 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.

Lamp Options

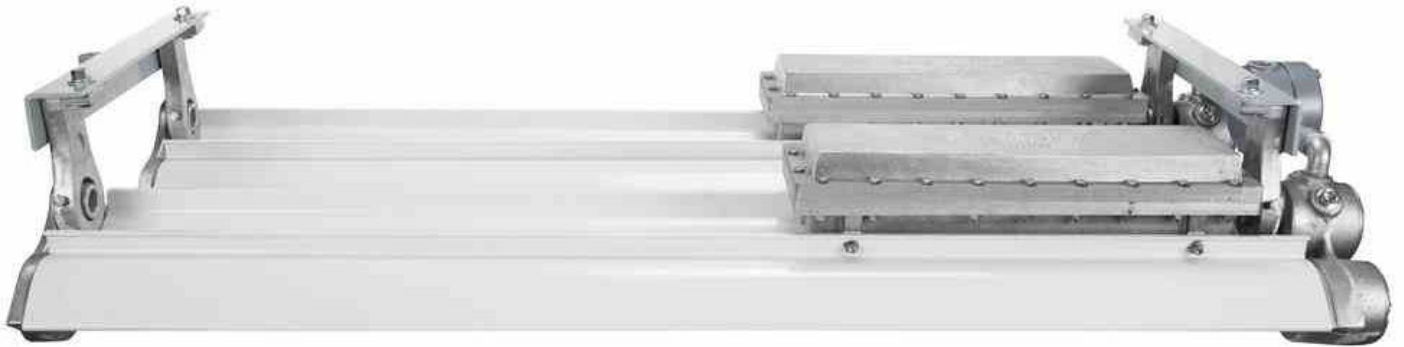
Lamp options for UV fixtures are determined by UV range. Operators can specify when ordering- UVA (-A part number suffix), UVB (-B) and UVC (-C suffix). F40T8 bulbs designed for UV applications are used. The bulb and ballast in our UV fluorescent fixtures are unique to UV applications.
UVA(-A) 400nm - 315nm
UVB (-B) 315nm - 280nm
UVC (-C) 280nm - 100nm

Frequently Asked Questions (FAQ)









EPL-48-4L-UV

Product ID: 71471

Export Control Classification Number (ECCN): EAR99

Options:

EPL-48-4L-UV-Lamp Type-Mount

Example: EPL-48-4L-UV-A-SFC

Lamp Type	
UVA	-A
UVB	-B
UVC	-C

Mount	
SURFACE	-SFC
PENDANT	-PND

Links (Click on the below items to view):

- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Dimensional Drawing 2D](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [SpecSheetSpanish](#)
- [STEP File \(3D CAD Model\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [Video1](#)
- [Video2](#)
- [Video4](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)