Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-48-1L-GSLED-UVC

Explosion Proof 33.5 Watt LED Ultraviolet Light - Class 1 Div 1&2, Class 2 Div 1&2

Product ID: 105363

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-48-1L-GSLED-UVC Explosion Proof LED UV Light
NRTL Listed for United States & Canada
Dimensions: 52.262"-L x 6.5"-Wx H-9.82"
Weight: 35 Lbs
Total Watts: 33.5 Watts
Voltage: 120-277 AC 50/60 Hz
Total Intensity: 19,200 mW
Lamp Life Expectancy: 50,000 hours
Efficiency: 573 mW/w
Ambient Operating Temp Range: -40°C to 85°C
Operating Temp Rating: T6 Rated
Minimum Operating Temp: -40°C
Maximum Case Temp: +85°C
Beam Angle: 150°
Color: 208-100nm UV Wavelength
Mounting: Bracket Standard - Pendant Optional
Wiring Hub: 1/2" Threaded NPT

PLEASE NOTE: UV-C light can cause temporary or permanent loss of vision, and temporary acute redness or ulceration (mild to severe sunburn) to exposed skin. To prevent exposure, do not operate the device in any application that allows UV-C light to be visible during operation. NEVER LOOK DIRECTLY AT THE BULB OR DISINFECTING TARGET ZONE. DO NOT touch bulb with bare hands. The oils in your skin will damage the lamp. Fingerprints will result in reduced performance and significantly reduce the lifespan of the lamp unless they are removed with alcohol. Please read instruction manual for UV safety requirements before operating.

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
UL 844, 924
UL 1598 Marine Type
UL 595 Outdoor Marine Type (Saltwater)
California Title 24 Compliant

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

Made in Texas

The Larson Electronics EPL-48-1L-GSLED-UVC Explosion Proof LED UVLight Fixture is NRTL Listed for United States and Canada, approved for Class 1 Division 1 & 2, Class II Division 1 & 2 and Paint Spray Booths, and is NRTL Certified to UL 1598A Wet Locations. This fixture uses advanced LED light technology to produce ultraviolet light and is T6 rated for hazardous locations where UV lamps are used in paint and adhesive curing, food inspection or for non-destructive testing.

Please note: This product produces UV light. Make sure to follow all safety guidelines and protocols found in the user manual. UVC light in the proper setting kills up to 99.9% of viruses, mold, spores and bacteria.*

Click here to learn more about UVC and the corona virus

The EPL-48-1L-GSLED-UVC fixture is a 4 foot long, 1 lamp, Class 1 Division 1 & 2 and Class II Division 1 & 2 explosion proof LED light fixture that emits light in the ultraviolet spectrum. TheEPL-48-1L-GSLED-UVC is made to order and is typically used for curing coatings or adhesives and for non-destructive testing. This lamp is 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 hazardous environments, paint spray booths, wet environments, and areas where UV lamps are used in paint and adhesive curing, food inspection, and for non-destructive testing.



Click Photo to Enlarge



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The EPL-48-1L-GSLED-UVC uses LED light technology, a technology that is far better in energy savingthan traditional fluorescent bulbs used for the same purposes. Traditional ultraviolet lights require a coating to block out visible light or a special composition of gases and chemicals used to create a higher concentration of ultraviolet light. This process, however, also produces many other wavelengths of light which go unused and end up as wasted energy. LED lights are unique in that they have a narrower wavelength band than traditional ultraviolet sources and therefore do not require these special coatings. As a result, LED lights do not produce unused, wasted light and therefore consume less energy than traditional UV lights on the market. LED lights have the added benefit of being capable of producing very specific wavelengths with tighter curves and are more durable and light weight as well.

The Class 1 & 2, Division 1 & 2 LED ultraviolet light fixture can be used for non-destructive testing in aviation and manufacturing, food processing and inspection, and in paint, coating, and adhesive curing. The EPL-48-1L-GSLED-UVC 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, non-destructive testing, inspection, and food processing.

Ultraviolet Wavelength: Ultraviolet A Wavelength produces a longer wave between the 208nm - 100nm spectrum.

Click Photo to Enlarge

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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.

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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.

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.

Superior LED Benefits

1. 50,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off – No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

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Frequently Asked Questions (FAQ)









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Product ID: 105363

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-48-1L-GSLED-UVC-Mount

Example: EPL-48-1L-GSLED-UVC-SFC

Mount	
SURFACE	-SFC
PENDANT	-PND

Links (Click on the below items to view):

- **Operations Manual**
- **SpecSheetSpanish**
- **Spectrum Curve (Wavelength Graph)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**