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Product ID: 286355

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



Image:

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.

EXHL-LE1-XLV-C1D1-50-EPP Explosion Proof LED Light Fixture

Lamp Type: LED
Dimensions: 8"-L x 6"-W x 14"-H
Watts: 12W
Voltage: 120-277 V AC Stepped Down to 12 V DC or 24 V DC
Lumens: 1,320
Luminous Efficacy: 110 Lm/W
LED Light Color: 6000K - White
LED Life Expectancy: 50,000 Hours
Lighting Configuration: 10° Spot or 40° Flood
Spot Beam: 800'-L x 140'-W
Flood Beam: 300'-L x 225'-W
Ambient Operating Temp Range: -40°C to +60°C
Wiring: 50' 16/3 SOOW Between Explosion Proof Transformer & Light - 10' 16/3 SOOW Between Transformer & Cord Cap
Cord Cap Options: 5-15P, 5-20P, or 6-20P
Housing Material: Aluminum
Housing Color: Powder Coated - Grey
Lens Material: Polycarbonate
Mounting: 5" Polycarbonate Handle

Ratings/Approvals

NRTL Listed for United States, Canada, Europe, Asia
Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Div. 1 & 2, Groups E, F ,G
Class III, Div. 1 & 2
NEMA Type 3, 4, 4X, 7 (B,C,D), 9 (E,F,G)
ATEX Ex II 2 G / D
IECEx db IIC Gb
IECEx tb IIC Db IP66

Special Orders - Special Requirements

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

The EXHL-LE1-XLV-C1D1-50-EPP from Larson Electronics is an Explosion Proof LED Light Fixture that operates on 120-277V AC that is stepped down to 12 V DC or 24 V DC via an

explosion proof inline transformer and that produces 1,320 lumens while drawing only 12 watts. The EXHL-LE1-XLV-C1D1-50-EPP is Class I, Divisions 1 & 2, Groups B, C, D, Class I, Zones 1 & 2, Groups IIB+H2, IIA, Class II, Divisions 1 & 2, Groups E, F ,G and Class III Divisions 1 & 2 rated for hazardous areas and is listed for use worldwide including the United States, Canada, Europe and Asia. This explosion proof LED light fixture also features a 5" ergonomic handle for convenient and simple use in the work place.

The EXHL-LE1-XLV-C1D1-50-EPP produces 1,320 lumens of high-intensity LED light for illumination within hazardous areas and potentially explosive work environments. This explosion proof LED light fixture operates on voltages ranging from 120-277 V AC. This input voltage is then stepped down to either 12 V DC or 24V DC to operate the light via an explosion proof inline transformer. With 50' of 16/3 SOOW cable between the light and the explosion proof transformer, there is plenty of room to move around the hazardous work area. The EXHL-LE1-XLV-C1D1-50-EPP is available in two lighting configurations; spot and flood. The spot configuration features a 10° beam that measures 800'-L and 140'-W. The flood configuration throws a 40° beam that measures 300'-L and 225'-W.

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.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED`s core temperature. This flash rate is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

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 50 feet of 16/3 chemical and abrasion resistant SOOW cord between the light and the explosion proof step down transformer along with an additional 10' 16/3 SOOW whip from the transformer 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 120 V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120 V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240 V 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.*

Durability: The EXHL-LE1-XLV-C1D1-50-EPP explosion proof LED light fixture from Larson Electronics is rated NEMA Type 3, 4, 4X, 7 (B,C,D) and 9 (E,F,G) and designed to withstand the rigors of demanding environmental and operating conditions while remaining lightweight and easy to use. These units can operate in temperatures of -40° Celsius to 60° Celsius, are waterproof to 3 meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The LEDs offer inherent LED resistance to shocks and vibrations.

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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Export Control Classification Number (ECCN): EAR99

Options:

-Cord Cap-Output Voltage-Beam Config
Example: -1523-12VDC-SP

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

Output Voltage	
12V DC	-12VDC
24V DC	-24VDC

Beam Config	
10° SPOT	-SP
40° FLOOD	-FL

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/286355.JPG)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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