Larson Electronics LLC
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Product ID: 148374

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-TBL-LE1-1227 Explosion Proof LED Light Fixture

Lamp Type: LED
Dimensions: 8"L x 6"W x 16"H - Lamp
Watts: 12W
Voltage:120-240V AC
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
Housing Material: Aluminum
Light Housing Color: Powder Coated - Grey
Lens Material: Polycarbonate
Mounting: Adjustable Table Arm Mount
Wiring: 20` 16/3 SOOW Cord w/ Flying Leads

Ratings/Approvals

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
Full, 360° Rotation
Gas Spring Arm

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

Made in Texas

The EXHL-TBL-LE1-1227 from Larson Electronics is an Explosion Proof LED Fixture

that features an adjustable table arm mount for inspections in hazardous locations. This LED lamp operates on 120-240V AC and produces 1,320 lumens while drawing only 12 watts. The EXHL-TBL-LE1-1227 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 is offered in a choice of spot or flood beam configuration and operates on 120-240V AC.

The EXHL-TBL-LE1-1227 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 120-240V AC. The EXHL-TBL-LE1-1227 is available in two lighting configurations: spot or 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. An adjustable table arm mount offers hands-free operation and flexible positioning during operation.

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.

Durability: The EXHL-TBL-LE1-1227 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.

Mounting: This explosion proof LED light can be installed on flat surfaces, such as desks and platforms, using an adjustable table arm mounting system. The mounting component, which is constructed of aircraft-grade aluminum, supports 360 degrees of rotation, 180 degrees of swivel, as well as 15 degrees (up) and 85 degrees (down) of tilt. The LED lamp does not need to be removed when positioning the unit. For elevated illumination, the mounting component is adjustable at height of 16". The arm is gas spring-powered for accurate positioning of the luminary. During installation, operators may either clamp the base of the mount at the end of the platform (does not require holes) or secure the foundational component into the surface with screws.

Wiring: This explosion proof LED light is equipped with 20` of 16/3 chemical and abrasion resistant SOOW cord. Operators may complete electrical connections to a preferred power source using flying leads at the end of the cord. Cables can be fed through the mounting arm for a clean installation.

High Quality Features	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.
1. Low power consumption	4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
2. Instant on/off operation	5. 100% recyclable.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy	6. No toxins-lead, mercury.
4. Superior color rendering compared to HPS, LPS, MH	7. No UV light, infrared radiation or CO2 emissions.
5. Retains 70% lumen output after 50,000 operating hours	8. Qualifies buildings for LED and other sustainable business certifications.
6. Powder coated aluminum fixture body	9. Bright, even light maintains consistent color over time.
7. Adjustable table arm mount	10. Instant on/off - No flickering, delays or buzzing.
8. Low profile - light weight	11. Very good color rendering.
9. 1,320 lumen output from 12 watts	12. Vibration/impact resistant.
	13. Significantly cooler operation.
	14. Less frequent outages, higher output improves workplace safety.

Applications: Inspections, detailed tasks, labs, soldering, petroleum refineries, chemical and petrochemical plants, paint spray booths, food manufacturing buildings, hazardous locations and more.

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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Product ID: 148374

Export Control Classification Number (ECCN): EAR99

Options:

-Beam Config
Example: -SP

Beam Config	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- **Dimensional Drawing 2D**(https://www.larsonelectronics.com//images/product/DimensionalDrawing/148374.PDF)
- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/148374.PDF)
- **SpecSheetSpanish**(https://www.larsonelectronics.com//images/product/SpecSheetSpanish/148374.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com//images/product/Step/148374.ZIP)
- **Wiring Diagram**(https://www.larsonelectronics.com//images/product/WiringDiagram/148374.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/148374.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/148374.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/148374.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/148374.JPG)
- **Video1**(https://www.youtube.com/watch?v=OGbw09xDTqI)
- **Video2**(https://www.youtube.com/watch?v=ZEWSEBXdzYE)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)