

EPL-TFM-150LED-RT-140DB-100-1523

150W Explosion Proof LED Light - C1D1/C2D1 - Non-Sparking Aluminum Base - 120-277V AC

Product ID: 71387

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-TFM-150LED-RT-140DB-100-1523 Explosion Proof LED Light

Listing: United States, Canada

Lamp Technology: LED

Dimensions: 16"-W 14"-H 5"-D` Light Head

Weight: 42 lbs

Voltage: 100-277V AC

Frequency: 50/60 Hz

Total Watts: 150W

Total Lumens: 21,000 lms

Luminous Efficacy: 140 Lm/W

Lamp Life: 60,000+ Hours

Color Temperature: 5600K, 5000K, 4500K, 4000K, 3500K, 3000K, 2700K, or 6500K

Color Rendering Index: 75

Lamp Type: Integrated LED

Lamp Base: N/A

Replacement Lamp: N/A

Beam Angle: 60°, 125°, or 140°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

Amperage: 1.25A @ 120V, 0.625A @ 240V, 0.54A @ 277V

Ambient Operating Temp Range: -40°C to +65°C

Operating Temp Rating: T5

Housing Material: Copper Free Cast Aluminum

Housing Finish: Epoxy Powder Coated - Grey

Ratings/Approvals

Class I, Division 1&2 Groups C,D

Class II, Division 1&2 Group E,F,G

Class III

Certified to UL 844 Ed. 13

Certified to UL 1598

Certified to C22.2 No. 137 Rev 2009

Certified to C22.2 No. 250.0

Certified to C22.2 No. 30-M-1986 Rev 2012

Paint Spray Booth Approved

IEC 60529 Tested

IP67 Rated Waterproof

LEL Approved

Multiple Driver Banks

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

3.5kV Surge Protection (NTC Circuit)

Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mount: Triangular Shaped Aluminum Base Stand
Wiring: 100' SOOW Cord
Cord Cap: Explosion Proof Straight Blade Plug
Hub Size/Location: (1) 1.5" (M25) @ Side

Special Orders - Special Requirements

Contact us for special requirements

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The EPL-TFM-150LED-RT-140DB-100-1523 Explosion Proof LED Light from Larson Electronics is rated Class 1 Division 1-2 Groups C & D and Class 2 Division 1-2 and uses a 16 inch Cree LED light head to produce 21,000 lumens of light while drawing only 150 watts. Constructed of copper-free aluminum, the solid-state LED light head is mounted on a triangular base for portability around the work site.

The EPL-TFM-150LED-RT-140DB-100-1523 explosion proof LED light provides 9,000 square feet of work area coverage. This portable LED light is mounted to a spun aluminum base and has an LED light head measuring 16 inches wide by 14 inches high. The LED light head on this unit produces a brilliant flood pattern of light that is ideal for illuminating enclosed areas and hazardous locations where flammable vapors, gases and dusts may be present. This portable explosion proof flood light is multi-voltage capable and configured to operate on 120-277V AC, 50/60 Hz. The lamp is T5 temperature rated and Design Lights Consortium approved.

The LED lamp produces 21,000 lumens with a color temperature of 5600K, 5000K, 4500K, 4000K, 3500K, 3000K, 2700K, or 6500K and a color rendering index of >75, which produces colors and details much more accurately than high pressure sodium or mercury vapor lamps. The copper free aluminum alloy lamp body is powder coated for added durability and resistance to corrosions. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention.



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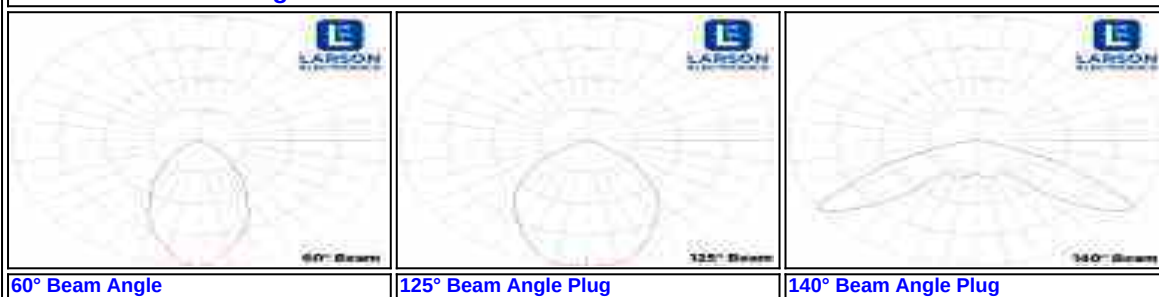
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive 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.

The explosion proof LED light head in this unit features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an

LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twelve individual LED boards configured in a series of banks. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

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Beam Angles: When used as a portable lighting solution, the varying beam angles are each individually ideal for several environments. The 60° beam provides the most intense beam of the three options. It is perfect for narrow, confined spaces and is ideally suited for tank cleaning purposes. It offers focused light to provide ample illumination to tight work spaces and other environments. The 125° beam offers a more diffused source of light that is also less intense in brightness. It is a great general area work light and performs well when used for outdoor illumination. The 140° beam offers a very wide lighting pattern and is ideal for situations where lighting distance is not a concern, but illumination of a wider area and even light distribution is. The 140° beam is great for situations that call for working in close proximity to lights such as in a paint booth.

Wiring: The EPL-TFM-150LED-RT-140DB-100-1523 is equipped with 100 feet of SOOW cord terminated in an explosion proof 1523 straight blade plug.

Mount: This explosion proof LED light fixture is comprised of a 16 inch wide square LED light head mounted atop a base stand fabricated from non sparking spun aluminum with a convenient carrying handle built into the top of the stand. The lamp can be easily adjusted up or down 90 degrees and locked into position by simply loosening the two hand screws located on either side of the light head and retightening them once the desired angle is found.

Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste water treatment plants, offshore applications 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.



Frequently Asked Questions (FAQ)









EPL-TFM-150LED-RT-140DB-100-1523

Product ID: 71387

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-TFM-150LED-RT-140DB-100-1523-Beam Angle-Color Temp

Example: EPL-TFM-150LED-RT-140DB-100-1523-60B-56K

Beam Angle	
60°	-60B
125°	-125B
140°	-140B

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K
2700K	-27K
6500K	-65K

Links (Click on the below items to view):

- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [Dimensional Drawing 2D](#)
- [IES \(Photometric File\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
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