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MMLP-150LED-RT-12P-XLV-C1D1-150C

150W Temporary Manhole Mount Explosion Proof LED Fixture - Tank Nozzle Mount Lighting - 12" Drop

Product ID: 149563



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.

MMLP-150LED-RT-12P-XLV-C1D1-150C Manhole Mount Light w/ Stepdown Transformer

Listing: United States - Canada
Lamp Type: Cree LED
Fixture Dimensions: 14" x 16" x 5" w/ 12" Suspension Pipe
Bracket Dimensions: 21"-OD Man-Way Support Bracket
Weight: 50 lbs
Voltage: 100-277V AC Stepped Down to 24V DC
Total Watts: 150W
Lumens: 17,500
Luminous Efficacy: 116.67 Lm/W
Lamp Life: 60,000+ Hours
Color Temp:5000K, 4000K or 3000K
Color Rendering Index: >75 CRI
Beam Angle: 60° or 125°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Amperage: 1.25A @ 120V, 0.63 @ 240V, 0.54 @ 277V
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting Bracket Material: Copper Free Aluminum Tubing
Mounting Bracket Finish: Powder Coated - Gloss Blue
Mounting: 21" Manway Entry Support Plate w/ 12" Drop Pipe
Beam Lux: 8500@ 1 Meter 1250@ 3 Meters
Wiring: 150` 12/2 Cord Between Light & Transformer & 10` 16/3 SOOW Cord Between

Ratings/Approvals

Listed for United States and Canada
Class I, Divisions 1 & 2, Groups C and D
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2
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
T5 Temperature Rating
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
Recommended 15` to 80` Mounting Height

Quick Summary

21" Man-way / Tank Nozzle Mount
150 Watt LED Light Fixture
High Output 13,000 Lumens
80% Lumen Retention @ 60,000 hrs
Fixture Suspended 12" Below Mount
160` Cord & Explosion Proof Plug
Increased Durability & Reliability
High Efficacy LED Light

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Transformer & Cord Cap
Cord Cap Options: 5-15P, 5-20P or 6-20P

Ideal for Tank Cleaning & MRO

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The MMLP-150LED-RT-12P-XLV-C1D1-150C from Larson Electronics is a 150 Watt Temporary Manhole Mount LED Light Fixture with Explosion Proof Stepdown Transformer provides operators with a powerful and highly convenient alternative to traditional string or tank lights. Cree LED technology, an innovative 21" man-way support bracket, and compact design, makes this lamp an excellent lighting solution for operators working within storage tanks, rail-cars, and other locations where entry is through a 21" man-hole opening.

This Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 tank nozzle mount explosion proof light fixture provides 17,500 lumens of high quality light while drawing only 150 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. A special heat dissipating design in conjunction with advanced LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. This explosion proof LED light is attached to a 21 inch supporting plate which allows the light fixture to hang down 12" inside the tank or railcar while the supporting plate rests on the lip of a man-way opening.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

This mounting system provides an extremely versatile lighting option for those working in confined spaces such as rail cars, storage tanks, ship tanks and the like where entry is through a 21" man-way opening. The light is suspended 12" from the lip to lower the light source into the tank.

The explosion proof LED light fixture 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.

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.
Voltage: The MMLP-150LED-RT-12P-XLV-C1D1-150C features an explosion proof inline stepdown transformer that steps down 120-277V AC current to the 24V DC voltage necessary to operate the light.

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5-15 Straight Blade Plug

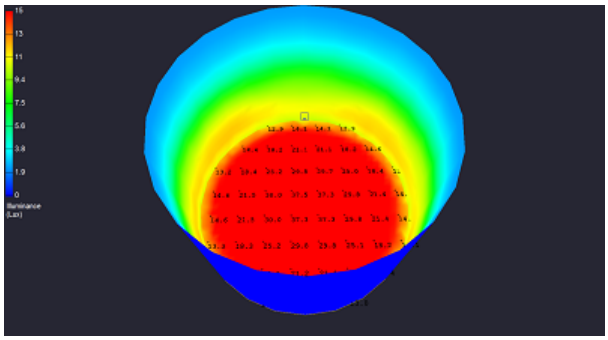


5-20 Straight Blade Plug



6-20 Straight Blade Plug

Wiring & Plug: This explosion proof manhole light is equipped with 150 feet of 12/2 cable between the light and the inline stepdown transformer and an additional 10` of 16/3 chemical and abrasion resistant SOOW cord from the C1D1 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 120V explosion proof outlets, a 5-20 20 amp straight blade plug for use with 120V explosion proof outlets, or a 6-20 20 amp straight blade plug for use with 220-240V 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.*
This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.



The above images shows the MMLP-150LED-RT-12P-XLV-C1D1-150C with 60° beam spread illuminating an 80` OD tank. The fixture is mounted in in the center at the top of the 60` tall tank. This nozzle mount LED fixture provides an averaged 30 lux at the tank floor.
Click Photo to Enlarge

This LED light produces 17,500 lumens with a color temperature of 5000K, 4000K, or 3000K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. The MMLP-150LED-RT-12P-XLV-C1D1-150C offers excellent convenience and effectiveness with a 21"

manhole mounting support bracket that eliminates the need for special mounting fixtures or cumbersome string light systems.
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)