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MMLP-150LED-RT-12P

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

Product ID: 105014

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.

MMLP-150LED-RT-12P Manhole Mount Light
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: 46 lbs
Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC
Total Watts: 150W
Lumens: 17,500
Luminous Efficacy: 116.67 Lm/W
Lamp Life: 60,000+ Hours
Color Temp:5000K, 4000K, 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

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
50` Cord & Explosion Proof Plug

Mounting: 21" Manway Entry Support Plate w/ 12" Drop Pipe
Beam Lux: 8500@ 1 Meter 1250@ 3 Meters
Wiring: 50` 16/3 SOOW Cord
Cord Cap: 5-15 (1523), 5-20 (2023 / 125V), or 6-20 (2023 / 250V)

Increased Durability & Reliability
High Efficacy LED Light
Ideal for Tank Cleaning & MRO

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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Made in the USA

The Larson Electronics MMLP-150LED-RT-12P 150 Watt Temporary Manhole Mount LED Light Fixture 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 1, Divisions 1 & 2 and Class 2, 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.

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source

over traditional lighting.
This light is universal voltage capable and can be operated with 100-277 VAC, 50/60Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts. 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 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 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.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MV.
5. Retains 80% lumen output after 60,000 operating hours.
6. Powder coated aluminum fixture body.
7. Highly convenient and innovative man-way support bracket provides an excellent alternative to string lights.
8. Low profile - Light weight
9. 17,500 Lumen output from only 150 watts
10. 21" Manway Support ring for tank nozzle mounting
11. 12" pendant allows the light fixture to be suspended within entryways

Superior LED Benefits

1. 60,000 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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MMLP-150LED-RT-12P
Product ID: 105014

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:
MMLP-150LED-RT-12P-Voltage-Beam Spread-EXP Cord Cap
Example: MMLP-150LED-RT-12P-1227-60DB-1523

Voltage	
120-277V AC	-1227
11-25V AC/DC	-1224

Beam Spread	
60° BEAM	-60DB
125° BEAM	-125DB

EXP Cord Cap	
5-15	-1523
5-20	-2023-125V
6-20	-2023-250V

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**