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MMLP-1MLED-B-24OD-36P-20O-100HR

Manhole Mount Explosion Proof LED Fixture w/ 100' Reel - Group B Hydrogen - 36" Drop Tank Nozzle

Product ID: 72908

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-1MLED-B-24OD-36P-20O-100HR Manhole Mount Light
Lamp Type: LED
Dimensions: 16" Diameter, 5" Thickness- 24" Man-Way Support Bracket
Weight: 48lbs (Light assembly)
Total Watts: 150W
Lumens: 16,000
Voltage: Multi- 100-277 VAC, 50/60Hz
Lighting Configuration: Flood Pattern
Beam Lux: 8500@ 1 Meter 1250@ 3 Meters
Temp Rating: T5 -40C to +65C
Color Temp: 6000K, 70-CRI.
Mounting: 24" Manway Entry Support Plate w/ 36" Suspension Pipe
Wiring: 100` SOOW, EXP Reel, 6` Feeder Cable, C1D1 Outlet
Receptacle Current Rating: 20 Amp
Receptacle Configuration: 3 Pole 2 Wire
Receptacle Number of Poles: 3
Mating Plugs: ****EPP-15A, EPP-20-A****

Cord Reel Standard Features:
SOOW cable (on all reels)
Spring activated ratchet
4-roller adjustable cable guide and ball
Built to UL 508 table 36.1/NEC Standard

Ratings/Approvals
LED Light Fixture
T5 Temperature Rating
Class 1 Division 1&2 Groups B, C and D
Class 2 Division 1&2 Groups E,F,G
Class 3 Division 1&2 Groups E,F,G
Certified to UL844 and C22.2 Standards
Light Fixture Approved for Hydrogen

Cord Reel
Class I Division 1, Groups C&D
Class II Division 1, Groups E,F, & G
Class III Division 1
Class 1 Zone 1: AEx d IIB, EX d IIB
Conforms to NEMA 9 and NEMA 4 (IP56)

Outlet
Class 1, Division 1&2 Groups B ,C, D
Class 2, Division 1&2 Groups F, G
Class III
NEMA 3, 3R, 7BCD, 9FG
Fixture

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Indoor or Outdoor Use
35 amp, 1-4 conductors 600 Volt
Rugged fabricated steel and cast aluminum slip ring enclosure
Gray epoxy finish on all steel parts
6` feeder cord on fixed end

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 the USA

The Larson Electronics MMLP-1MLED-B-24OD-36P-20O-100HR Group B Temporary Manhole Mount LED Light Fixture with Cord Reel and EXP Outlet provides operators with a powerful and highly convenient alternative to traditional string or tank lights. LED technology, an innovative 24" man-way support bracket, and compact design, makes this lamp an excellent lighting solution for operators working within storage tanks, railcars, and other locations where entry is through a 24" man-hole opening.

******PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE******

This Class 1 Division 1 & 2, Class 2 Division 1 & 2 explosion proof light fixture provides 16,000 lumens of high quality light while drawing only 150 watts. This unit is Class 1 Division 1, Group B approved for use in environments where hydrogen is always present. 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 16" diameter LED light is attached to a 24" supporting plate which allows the light fixture to hang inside the tank or railcar while the supporting plate rests on the lip of a man-way opening. A 20 amp explosion proof outlet mounted onto the aluminum tank mount allows operators to power lights and equipment without having to run additional extension cords.

The nozzle 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 24" man-way opening. The light is suspended 36" from the lip to lower the light source into the tank. The non sparking reel contains the unit's 100` of SOOW cord for convenient cord management. This explosion proof reel and LED tank light can be set up and used within the hazardous location area, making it ideal for hazardous work areas where a ready source of easily managed lighting is desired.

Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

This light is multi-voltage capable and can be operated with 100-277 VAC, 50/60Hz without any need for a special ballast. The 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 LED luminaries. The LED lamp produces 16,000 lumens with a color temperature of 6000K and a color rendering index of 70, which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries.

The power receptacle on this tank cleaning light is constructed of non sparking aluminum and finished with an epoxy powder coating while the body is

constructed of triple coated malleable iron for durability and added corrosion resistance. The internal receptacle plug contacts are constructed of brass and designed to maintain constant pressure along their entire length for superior connectivity. The plug receptacle is deeply recessed to prevent accidental contacts and designed for twist lock plug insertion to provide secure connections. A neoprene seal fitted inside the connector receptacle seals against the plug when inserted to provide positive sealing against water ingress. A spring loaded receptacle door provides an automatic weather-tight seal when the plug is removed. In standard installations within the hazardous location area, threaded rigid pipe is brought to the outlet and the outlet is affixes to a mounting surface. Please note, ordinary industrial and general use plugs will NOT activate the explosion proof receptacle.

The MMLP-1MLED-B-24OD-36P-20O-100HR offers excellent convenience and effectiveness with a 24" manhole mounting support bracket that eliminates the need for special mounting fixtures or cumbersome string light systems. The 100` SOOW cable is stored with the explosion proof cord reel, providing storage and cable management when not in use. The explosion proof receptacle mounted on the light assembly allows for daisy chain connections, providing operators to power lights and equipment within the hazardous location without requiring additional power sources or extension cords.

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. 16,000 Lumen output from only 150 watts.
10. Class 1, Divisions 1 & 2, Group B hydrogen rated.
11. 100` SOOW cable within a C1D1 explosion proof cord reel.
12. 20 amp rated explosion proof outlet mounted to the light assembly frame.

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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Product ID: 72908

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**