

C1D1 Explosion Proof High Bay LED Fixture w/ Emergency Battery Backup - Paint Spray Booth Approved

Instruction Manual

This explosion proof light is designed for illumination of industrial locations. It uses the latest in solid state lighting technology for long life, low maintenance and high efficiency.

The unique design focuses the light where it is needed, giving improved efficiency over a conventional HID luminaire.

This light fixture is shipped preconfigured to work in the selected voltage range. This includes 100-277V AC 50/60hz or 11-25V AC/DC depending on model selected. An internal, universal input power-factor-corrected switch allows it to be used from any voltage within range without variation in light output. *Check product label for correct input voltage!*

WARNING

To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electric shock:

- Be certain electrical power is OFF before and during installation and maintenance.
- Luminaire must be connected to a wiring system with an equipment-grounding conductor.

To avoid explosion:

- Make sure the supply voltage is within the luminaires' voltage rating.
- Ensure the marked T rating is less than the ignition temperature of the Hazardous Atmosphere.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

For supply connections, use wire rated for at least 110°C

Recommended mounting height is 15-40 feet.

MOUNTING

The EPL-EMG-HB-50LED-RT-WLM offers a flat surface mounting system, mounted with four bolts through the tabs on the wiring junction box. This mounting feature caters to wall mounting preferences.

WIRING (see below wiring diagram)

The EPL-EMG-HB-50LED-RT-WLM explosion proof wall mount LED light fixture is equipped with 10 feet of abrasion and chemical resistant 16/3 SOOW cable with flying leads. The LED light fixture features 5 3/4" NPT threaded ports for running conduit; four of the ports are located on the corners of the unit and the fifth port is found on the rear of the explosion proof wall mount LED fixture. Feed wiring through a port to complete connections.

1. (See wire diagram) Wire the "Neutral", "Hot", and "Ground" wires to power source.
2. Wire White/Red to switch if applicable.

WARNING: CHECK NAMEPLATE FOR PROPER VOLTAGE. DAMAGE FROM IMPROPER VOLTAGE WILL VOID WARRANTY.

Wiring Diagram:**OPERATION**

The emergency LED light works, mounts and is wired like our EPL-HB-50LED-RT-CM LED light fixtures. The main differences are that we add a remote mounted battery backup unit that adds emergency light functionality to the fixture and the EPL-EMG-HB-50LED-RT-WLM is equipped with a wall mounting bracket. This emergency LED light will run at the standard UL suggested 90 minutes after power is lost. The light recharges the battery once electrical power is restored. Standard configuration includes a single emergency battery backup that is automatically recharged and kept in a ready state.

MAINTENANCE

Caution: To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

Warning: No user serviceable parts inside of fixture. Risk of electric shock. Removal of the lens will void the warranty.

1. Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended practice for Electrical Equipment.
2. The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner.
3. Inspect the cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
4. Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

BACKUP BATTERY MAINTENANCE

Although no routine maintenance is required to keep the backup battery functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds by severing power to the fixture. The lamp should operate at full illumination.
2. Conduct a 90-minute discharge test once a year. The lamp should operate at full illumination for at least 90 minutes.

!!!! REFER ANY SERVICING INDICATED BY THESE CHECKS TO QUALIFIED PERSONNEL !!!!

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.

EYM INSTALLATION / SEALING COMPOUND

HAZARD WARNINGS: May cause irritation to eyes and skin. Inhalation dust is considered a nuisance dust. Avoid physical contact by wearing appropriate gloves and dust goggles. If powder gets into eyes, flood immediately for 15 minutes with water. Wash hand thoroughly with soap and water after handling

Mix 2 parts Sealing Compound to 1 part clean water. Mix thoroughly. Do not mix more than can be used in 15 minutes. Use cold water as warm water accelerates set.

Vertical Installation:

Seal fitting is installed with the small access plug in the up position. Both access plugs are removed after conductors are installed. Damping fiber is installed through the lower access port into the lower portion of the fitting body. Care must be taken to insure the fiber fills all voids around each conductor, as well as between conductors and the wall of the seal fitting body. Replace the lower (large) access plug. Mix compound according to manufacturer instructions and pour through the upper (smaller) access port until compound reaches the base of the access port threads. Replace remaining plug in upper access port. Both plugs are to be made up with five threads engaged and wrench tight.

Horizontal Installation:

Seal body is installed with both access plugs in the up position. Both access plugs are removed after conductors are installed. Damping fiber is installed through the large access port into both ends of the seal fitting body to allow sealing compound to flow to the required thickness (Table A). Care must be taken to insure the fiber fills all voids around each conductor, as well as between conductors and the wall of the seal body.

Replace the small access port plug. Mix compound according to manufacturer instructions and pour through the large access port until compound reaches the base of the access port threads. Replace large plug. Both plugs are to be made up with five threads engaged and wrench tight.

Class I Group A & B Installations:

Vertical Installation:

Sealing compound is to be mixed at ambient temperature above 40°F. / 4°C. and poured into fitting with body temperature not below 40°F. / 4°C. Ambient temperature (of fitting) must not drop below 40°F. / 4°C. for 72 hours. Compound must cure for 72 hours before circuits are placed into service.

Horizontal Installation:

Sealing compound is to be mixed at room temperature, and poured into fitting at room temperature. Ambient temperature of fitting must remain at room temperature for 72 hours. Compound must cure for 72 hours before circuits are placed into service.

Class I Group C & D Installations:

Sealing compound is to be mixed at ambient temperature above 35°F. / 2°C. and poured into fitting with body temperature not below 35°F. / 2°C. Ambient temperature (of fitting) must not drop below 35°F. / 2°C. for 8 hours. Compound must cure for 8 hours before circuits are placed into service.

