EPLX-HB-100W-RD2-LED-TRC Manual

100W Explosion Proof High Bay AC LED Light Fixture

1. General Information

EPLX-HB-100W-RD2-LED-TRC Luminaires are suitable for use in the following hazardous (classified) areas as defined by the National Electrical Code (NEC) and Canadian Electrical Code (CEC):

- Class I, Division 1, Groups B, C, D
- Class II, Division 1, Groups E, F, G
- Wet Locations (UL 1598)

Refer to the luminaire nameplate for specific classification information, maximum ambient temperature suitability and corresponding operating temperature (T-Code).

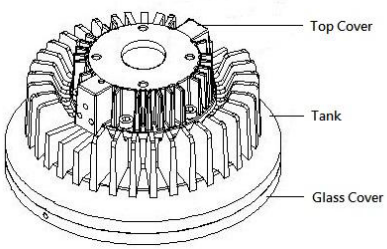
EPLX-HB-100W-RD2-LED-TRC LED Luminaire is designed for using indoors and outdoors.

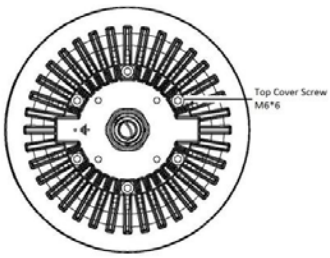
Voltage Options: 120/208/220/240/277 Vac 50/60 Hz
Ambient Temperate Range: -60°C to +100°C

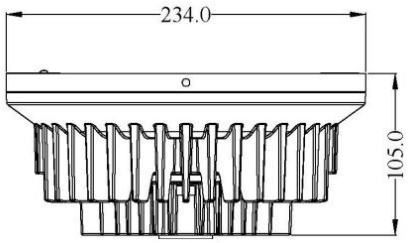
⚠WARNING

- 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 codes and regulations.
- To avoid electric shock:
  - ✓ Be certain electrical power is OFF before and during installation and maintenance.
  - ✓ Luminaire must be supplied by a wiring system with an equipment grounding conductor.
- To avoid explosion:
  - ✓ Make sure that the supply voltage is the same as the luminaire voltage.
  - ✓ Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
  - ✓ Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
  - ✓ All gasket seals must be clean and undamaged.
  - ✓ Before dismounting, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.
- To avoid burning hands, ensure the luminaire is cool when performing maintenance.

2. Dimensions (All Dimensions in mm)







3. Model Code

Options:

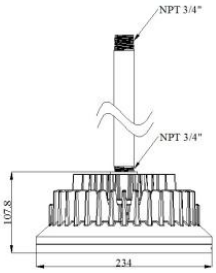
EPLX-HB-100W-RD2-LED-TRC-VOLTAGE-COLOR TEMP

Example: EPLX-HB-100W-RD2-LED-TRC-120V-50K

VOLTAGE	
120V	-120V
208V	-208V
220V	-220V
240V	-240V
277V	-277V

COLOR TEMP	
5000K	-50K
3000K	-30K

4. Technical Data

Item	Description
Voltage Options	120V AC, 208V AC, 220V AC, 240V AC, 277V AC
Ambient Temperate Range	-60°C to ~ +100°C
Material **Enclosure** **Glass**	 Aluminum alloy Heat and impact resistant tempered glass
LED Service Life	60,000+ hrs
Entrance Hole	NPT 3/4” threaded holes
	Pendant mounted via a 3/4" hub on the back side of the fixture
Mounting Type / Weight	
	12.1 lbs

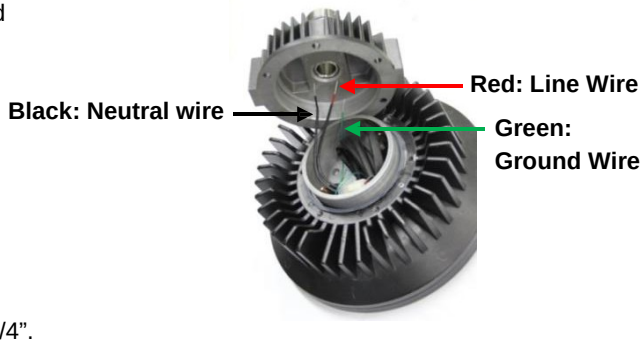
5. Assembly and Installation

5.1 Electrical Connection

- ☞ Loosen the 6*M6 screws on Top Cover of the luminaire (Tank).
- ☞ The thread of cable entry hole of Top Cover is NPT 3/4”. Attach the Top Cover to suitable conduit.
- ☞ Insert the cable from outside through the conduit and the cable entry hole of Top Cover.
- ☞ Introduce the wires of the luminaire with wires of field wiring by attached closed-end-terminals as following (see picture)

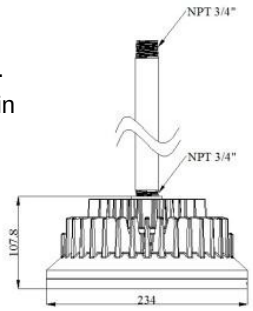
Black – wire connects to Neutral
Red – wire connects to Line
Green – wire connects to Ground

- ☞ Re-attach the Top Cover and tighten it by respective 6*M6 screws with torque value 24.5 kgf-cm.
- ☞ Check the tightness of conduit and Top Cover.



5.2 Pendant Mounting

- ☞ Supplement for the Item 5.1 – Electrical Connection.
  The thread of cable entry hole of Top Cover is NPT 3/4”.
- ☞ Insert the cable from outside through the straight electrical tube and the cable entry hole of Top Cover.
- ☞ Introduce the wires of the luminaire with wires of cable by attached closed-end-terminals as indicated in Item 5.1 – Electrical Connection.
- ☞ Attach straight electrical tube to the Top Cover.
- ☞ One end of tube mounting male threads 3/4” NPT is securing to Top Cover and the other end of tube mounting male threads of 3/4” NPT is for supply connection in the field by AHJ.
- ☞ Thread the tube mounting on conduit and torque until wrench-tight.
- ☞ Tighten tube locking set screw to conduit, 1.0 N-m. (Figure 1)



5.3 Putting into Service

Before putting into operation, it is necessary to ensure that:

- ☞ The light fixture is correctly installed.
- ☞ The connections have been properly made.
- ☞ The field wiring has been installed correctly by an Authority Having Jurisdiction (AHJ).

6. Maintenance

- To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.
- Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequency of use should determine this. However, it is recommended that checks be made at least once a year. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B: Recommended Practice for Electrical Equipment Maintenance.
- The lens should be cleaned periodically to ensure continued lighting performance. C lean the lens with a clean, damp, non-abrasive, lint-free cloth. If this is not sufficient, use a mild soap or a liquid cleaner. Do not use an abrasive, strong alkaline or acid cleaner as damage may occur.
- Inspect the cooling fins on the luminaire to ensure that they are free of any contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
- Electrically check to make sure that all connections are clean and tight.
- Mechanically check that all parts are properly assembled.

7. Transport, Storage and Disposal

- Transport and storage is only allowed in the original packaging, on the way pointed out on the carton box.
- Transport – Shock-free in its original carton, do not drop, and handle carefully.
- Store – Store in a dry place in its original packaging.
- Disposal – Ensure environmentally friendly disposal of all components according to the legal regulations.