HazLoc LED LUMINAIRE

Installation and Maintenance Manual HazLoc L1102A

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Subject to alterations

General Information 1.

HazLoc L1102A LED 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 2, Groups A, B, C, D
- Wet Locations (UL 1598)

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

HazLoc L1102A LED Luminaire is designed for using in indoors and outdoors environment.



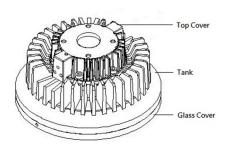


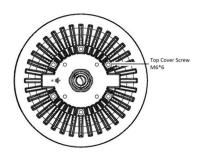
Rated Voltage: 277/480 Vac, 50 & 60 Hz Ambient Temperate Range: -40°C ~ +40°C

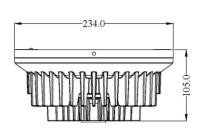
△ WARNING

- 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.
 - Use proper supply wiring as specified on the luminaire nameplate.
 - 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.

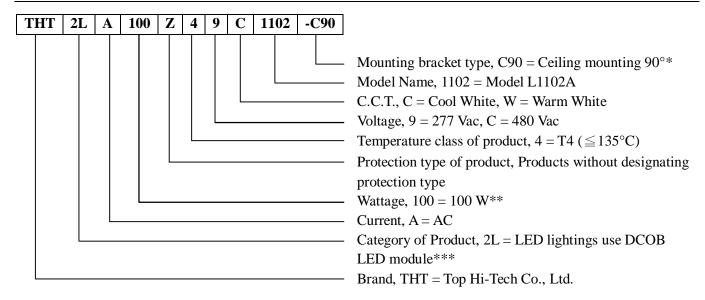
Dimensions (All Dimensions in mm) – Subject to Alterations







3. Model Code



^{*} C90 = Ceiling mounting 90° , W25 = Wall mounting 25° , W90 = Wall mounting 90° , H25 = Pendant mounting 90° , S25 = Bending electrical tube 25° , S90 = Bending electrical tube 90° , P90 = Straight electrical tube 90° ** 100 = 100 watt, 80W = 80 watt, 60W = 60 watt

4. Technical Data

Item	Description		
Rated Voltage	277/480 Vac, 50 & 60 Hz (Note information on type label)		
Power Factor	$\cos \phi \ge 0.9$		
Ambient Temperate Range	-40°C ~ +40°C		
Material Enclosure Glass	Aluminum alloy Temperature-resistant pressed glass		
LED Service Life	60,000 hrs		
Entrance Hole	NPT 3/4" threaded hole Pendant Mounting Ceiling Mounting Wall Mounting		
Mounting Type / Weight	-250-		2573
	5.5 kg	7.1 kg	6.3 kg
	Bending Electrical Tube Mounting 25°	Bending Electrical Tube Mounting 90°	Straight Electrical Tube Mounting 90°
	NPT 1-1/2*	NPT1-1/2*	NPT 3/4*
	5.9 kg	6.6 kg	5.2 kg

^{*** 2}L = LED lightings use DCOB LED module, 2D = LED lightings use DOB LED module

5. **Assembly and Installation**

5.1 **Electrical Connection**

- Loosen the 6 M6 screws of Top Cover of the luminaire.
- 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.
- æ Introduce the wires of the luminaire with wires of cable by attached closed-end-terminals as following (see picture): Black-wire connects to Neutral; Red-wire connects to Live; Green-wire connects to Ground.

Mounting Bracket Installation

5.2.1 Wall Mounting Bracket (W25 & W90)

- The mounting bracket is for the use of wall mounting.
- Position the bracket holders and fix it by means of the provided M6 screws, 24.5 kgf-cm. (Figure 1)
- Secure the wall mounting bracket to the structure by using four fasteners (not provided). (Figure 2)
- The lighting can be adjusted up and down by 25°.

5.2.2 **Ceiling Mounting Bracket (C90)**

- (B) The mounting bracket is for the use of ceiling mounting.
- Position the bracket holders and fix it by means of the provided M6 screws, 24.5 kgf-cm. (Figure 3)
- Secure the wall mounting bracket to the structure by using four fasteners (not provided). (Figure 4)

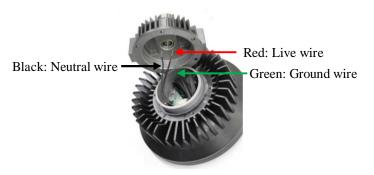
5.2.3 Pendant mounting Bracket (H25 & H90)

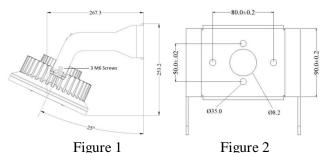
- The mounting bracket is for the use of hanging mounting.
- Position the bracket holders and fix it by means of the provided M6 screws, 24.5 kgf-cm. (Figure 5)
- Secure the wall mounting bracket to the structure by using two fasteners (not provided). (Figure 6)
- The lighting can be adjusted by 25° (see picture).

5.2.4 **Bending Electrical Tube mounting (S90 & S25)**

- 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 bending electrical tube and the cable entry hole of Top
- Introduce the wires of the luminaire with wires of cable by attached closed-end-terminals as indicated in Item 5.1 – Electrical Connection.

- 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.





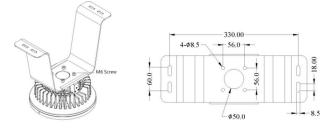
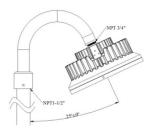
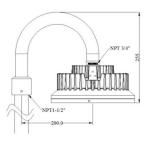


Figure 3 Figure 4

Figure 6 Figure 5

- Attach bending 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 female threads of 1-1/2" 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. (Figures 7, 8)





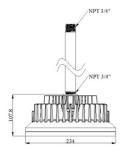


Figure 7

Figure 8

Figure 9

5.2.5 Straight Electrical Tube Mounting (P90)

- 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 9)

5.3 Putting into Service

Before putting into operating, it's necessary to ensure that:

- the lighting is correctly installed.
- the connection has been correctly made.
- the cable has been inserted correctly.

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. Clean 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.