

HazLoc LED LUMINAIRE

Installation and Maintenance Manual

HazLoc L1102A



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Subject to alterations

1. General Information

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 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).

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

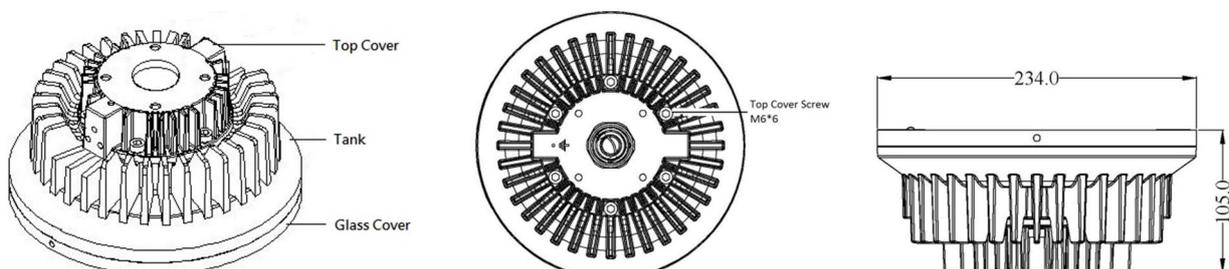


Rated Voltage: 277/480/120 Vac, 50 & 60 Hz
Ambient Temperature Range: -40°C ~ +40°C

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.**
- ▶ **WARNING: To prevent ignition of Group B atmospheres conduit runs must have a sealing fitting connected within 2 inches of the luminaire.**
- ▶ **To avoid electric shock:**
 - ✓ Be certain electrical power is OFF before and during installation and maintenance.
 - ✓ Luminaire must be supplied by a wiring system required by the NEC and CEC for the specific hazardous locations 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.**

2. Dimensions (All Dimensions in mm) – Subject to Alterations



3. Model Code

THT	2L	A	100	Z	5	9	C	1102	-C90
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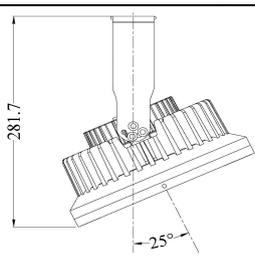
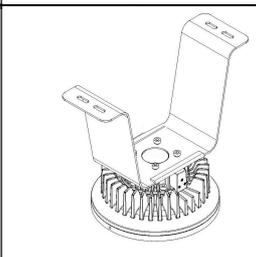
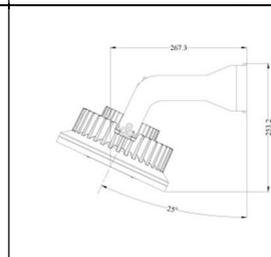
Mounting bracket type, C90 = Ceiling mounting 90°*
 Model Name, 1102 = Model L1102A
 C.C.T., C = Cool White, W = Warm White
 Voltage, 9 = 277 Vac, C = 480 Vac, 6 = 120 Vac
 Temperature class of product, 5 = T5 ($\leq 100^{\circ}\text{C}$)
 Protection type of product, Products without designating protection type
 Wattage, 100 = 100 W**
 Current, A = AC
 Category of Product, 2L = LED lightings use DCOB LED module***
 Brand, THT = Top Hi-Tech Co., Ltd.

* C90 = Ceiling mounting 90°, W25 = Wall mounting 25°, W90 = Wall mounting 90°, H25 = Pendant mounting 25°, H90 = Pendant mounting 90°

** 100 = 100 watt, 80W = 80 watt, 60W = 60 watt

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

4. Technical Data

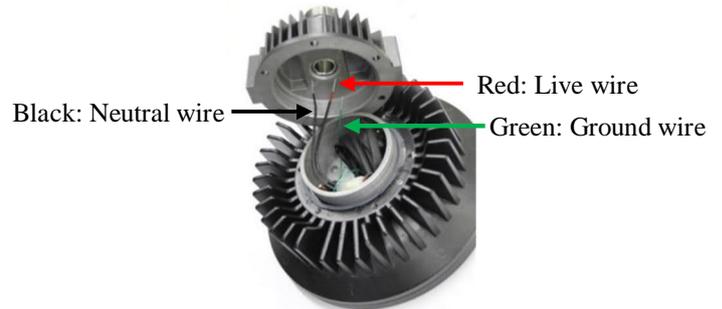
Item	Description		
Rated Voltage	277/480/120 Vac , 50 & 60 Hz (Note information on type label)		
Power Factor	$\cos \phi \geq 0.9$		
Ambient Temperature Range	-40°C ~ +40°C		
Material Enclosure Glass	Aluminum alloy Temperature-resistant pressed glass		
LED Service Life	60,000 hrs		
Supply Entrance Hole	NPT 3/4" threaded hole		
Mounting Type / Weight	Pendant Mounting	Ceiling Mounting	Wall Mounting
			
	5.5 kg	7.1 kg	6.3 kg

5. Assembly and Installation

5.1 Electrical Connection

- Loosen the 6 M6 screws of Top Cover of the luminaire.
- The thread of entry hole of Top Cover is NPT 3/4". Attach suitable conduit to the entry hole of Top Cover.
- Insert the suitable field wiring from outside through the conduit and the entry hole of Top Cover.
- Connect the lead wires of the luminaire with wires of field wiring by Listed wire connectors as following (see picture):
Black-wire connects to Neutral;
Red-wire connects to Live;
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 Mounting Bracket Installation

5.2.1 Wall Mounting Bracket (W25 & W90)

- The mounting bracket is for surface mounting to wall.
- Position the bracket holders and secured by means of the provided M6 screws, 24.5 kgf-cm. (Figure 1)
- Secure the wall mounting bracket to the mounting surface by using four fasteners (not provided). (Figure 2)
- The luminaire can be adjusted in two positions.

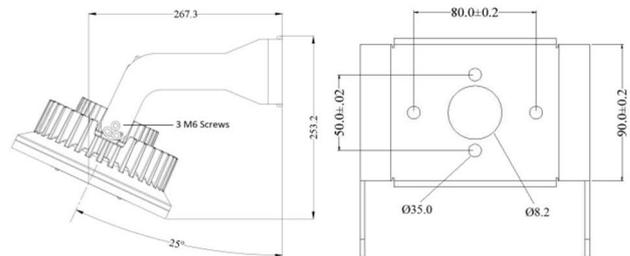


Figure 1

Figure 2

5.2.2 Ceiling Mounting Bracket (C90)

- The mounting bracket is surface mounting to ceiling.
- Position the bracket holders and secured by means of the provided M6 screws, 24.5 kgf-cm. (Figure 3)
- Secure the ceiling mounting bracket to the mounting surface by using four fasteners (not provided). (Figure 4)

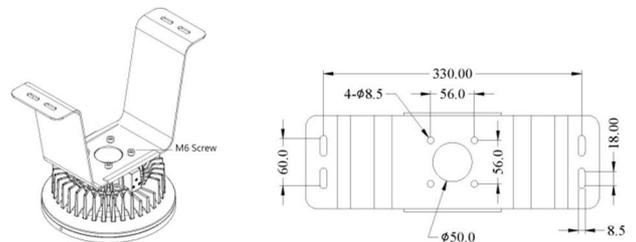


Figure 3

Figure 4

5.2.3 Pendant mounting Bracket (H25 & H90)

- The mounting bracket is surface mounting to ceiling.
- Position the bracket holders and secured by means of the provided M6 screws, 24.5 kgf-cm. (Figure 5)
- Secure the pendant mounting bracket to the mounting surface by using two fasteners (not provided). (Figure 6)
- The luminaire can be adjusted in two positions.

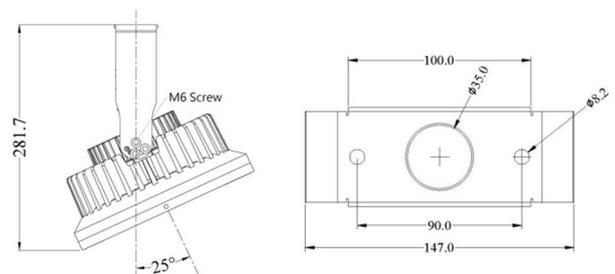


Figure 5

Figure 6

5.3 Putting into Service

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

- the luminaire is correctly installed.
- the field wiring connection has been correctly made.

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.