

# HazLoc LED LUMINAIRE

## Installation and Maintenance Manual

### HazLoc L1102A



Top Hi-Tech Co., Ltd.  
5F., No. 113, Zhongcheng Rd.,  
Tucheng District,  
New Taipei City, 236 Taiwan

Website: [www.tht-ex.com](http://www.tht-ex.com)  
TEL: +886 2 22689570  
FAX: +886 2 22689571  
e-mail: sales@tht-ex.com

Pub. Code: 201412EL1102AUS01  
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.

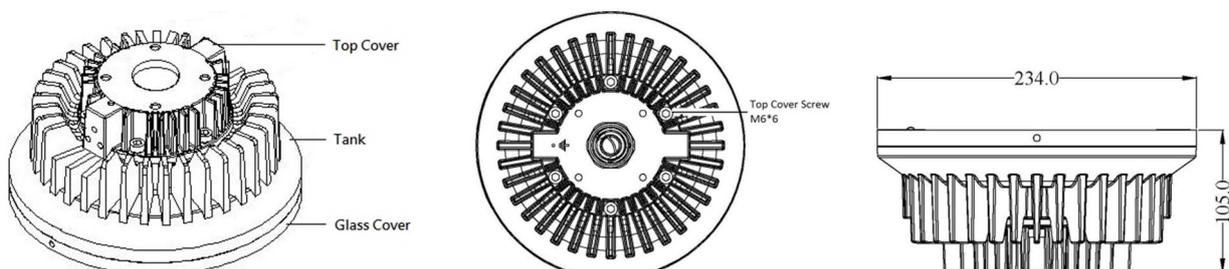


Rated Voltage: 277/480/120 Vac, 50 & 60 Hz  
Ambient Temperature Range: -40°C ~ +40°C

#### 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 |
|-----|----|---|-----|---|---|---|---|------|------|

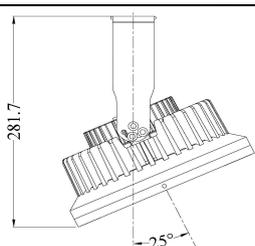
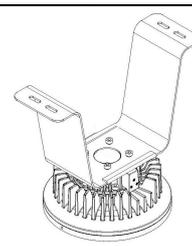
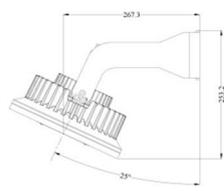
Mounting bracket type, C90 = Ceiling mounting 90°\*  
 Model Name, 1102 = Model L1102A  
 C.C.T., C = Cool White, W = Warm White  
 Voltage, 9 = 277 Vac, C = 480 Vac, 6 = 120 Vac  
 Temperature class of product, 5 = T5 (≤ 100°C)  
 Protection type of product, Products without designating protection type  
 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

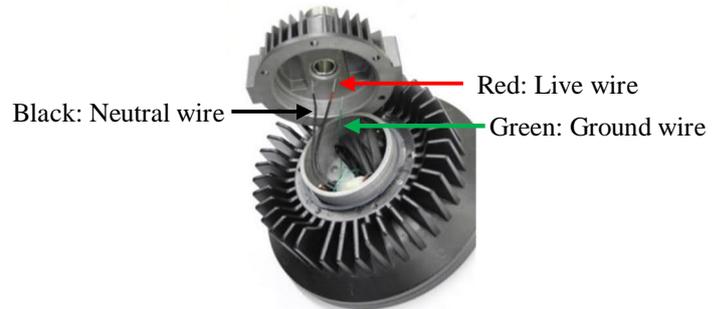
| Item                      | Description   |  |   |
|---------------------------|---|--|---|
| Rated Voltage             | 277/480/120 Vac , 50 & 60 Hz (Note information on type label)                       |  |   |
| Power Factor              | $\cos \phi \geq 0.9$  |  |   |
| Ambient Temperature Range | -40°C ~ +40°C   |  |   |
| Material                  | Aluminum alloy  |  |   |
| Enclosure                 | Temperature-resistant pressed glass   |  |   |
| 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.

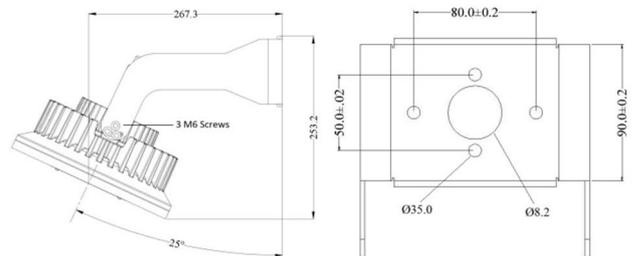


Figure 1

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)

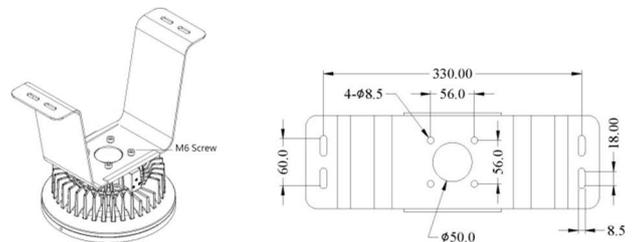


Figure 3

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.

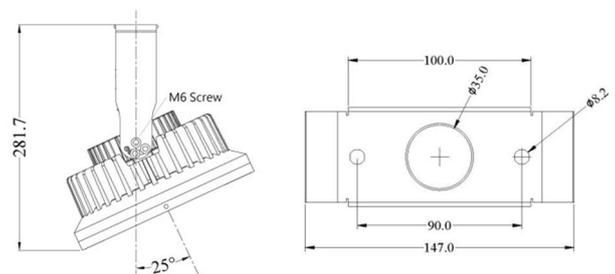


Figure 5

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.