

# HazLoc LED LUMINAIRE

## Installation and Maintenance Manual

### HazLoc P1202



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Subject to alterations

#### 1. General Information

HazLoc P1202 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 P1202 LED Luminaire is designed for using in indoors and outdoors environment.

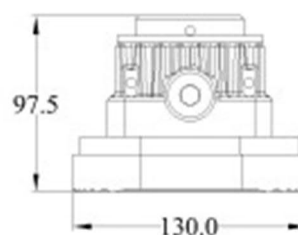
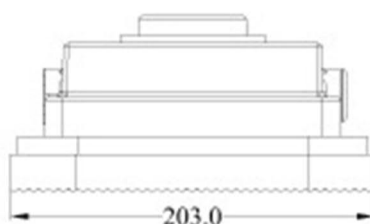
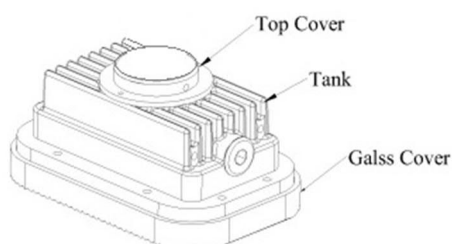


Rated Voltage: 277/480/120 Vac, 50 & 60 Hz  
Ambient Temperature Range: -40°C ~ +40°C

#### 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.
- ▶ 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.

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



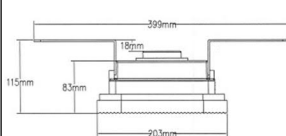
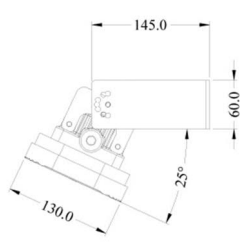
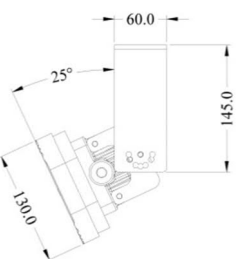
### 3. Model Code

THT	H	1202	Z	C	B	C	9	D0	C90
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Mounting bracket type, C90 = Ceiling mounting 90°\*  
 Wattage, D0 = 40 W  
 Voltage, 9 = 277 Vac, C = 480 Vac, 6 = 120 Vac  
 CCT, C = cool white; W = warm white  
 LED module type, B = DCOB (driver chip on board)  
 Type of top Cover, C = Top cover with M20 or NPT 3/4” opening; D = Top cover without opening.  
 Internal control code  
 Type of product, H – Lighting for using in Class I, Div. 2  
 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°

### 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 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” or M20 threaded hole		
Mounting Type / Weight	Ceiling Mounting	Wall Mounting	Pendant Mounting
			
	3.4 kg	3.6 kg	3.6 kg

## 5. Assembly and Installation

### 5.1 Electrical Connection

#### 5.1.1 Cable Entries through Top Cover

- ☞ Loosen the M4 set screw of Top Cover of the luminaire. (Figure 1)
- ☞ Loosen the Top Cover of the luminaire and remove it.
- ☞ The thread of cable entry hole of Top Cover is NPT 3/4" or M20.
- ☞ 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 cable by attached closed-end-terminals as following (Figure 2):
  - Black-wire connects to Neutral;
  - Red-wire connects to Live;
  - Green-wire connects to Ground.

- ☞ Thread the Top Cover and torque until wrench-tight.
- ☞ Tighten the M4 set screw of Top Cover with torque value 1 N-m.
- ☞ Check the tightness of conduit and Top Cover.

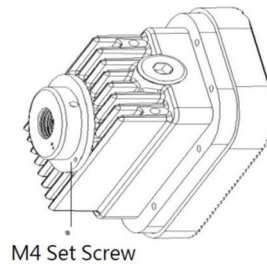


Figure 1



Figure 2

#### 5.1.2 Cable Entries through Entry Hole of Tank

- ☞ Loosen the Plug from the Tank and remove it. (Figure 3)
- ☞ The thread of cable entry hole of Tank is M20.
- ☞ Attach the Tank to suitable conduit.
- ☞ Insert the cable from outside through the conduit and the cable entry hole of Tank.
- ☞ Introduce the wires of the luminaire with wires of cable by attached closed-end-terminals as following (Figure 2):
  - Black-wire connects to Neutral;
  - Red-wire connects to Live;
  - Green-wire connects to Ground.

- ☞ Thread the conduit and torque until wrench-tight with torque value 40 N-m.
- ☞ Check the tightness of conduit.

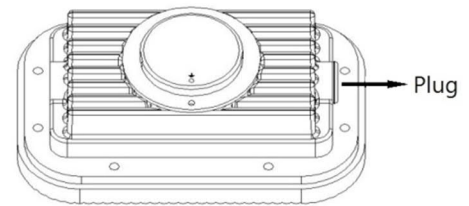


Figure 3

### 5.2 Mounting Bracket Installation

#### 5.2.1 Wall Mounting & Pendant Mounting Bracket

- ☞ The mounting bracket is both for the use of wall mounting and Pendant mounting.
- ☞ Position the bracket holders and fix it by means of the provided M6 screws, 24.5 kgf-cm. (Figure 4)
- ☞ Secure the wall/pendant mounting bracket to the structure by using six fasteners (not provided). (Figure 5)
- ☞ The lighting can be adjusted up and down by 25°.

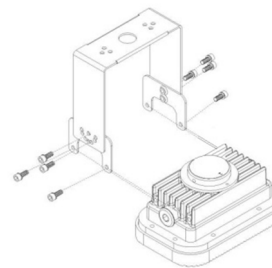


Figure 4

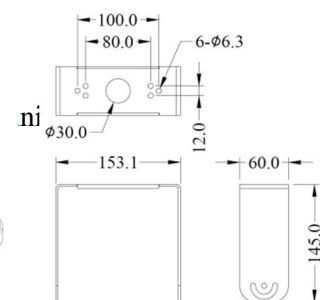


Figure 5

#### 5.2.2 Ceiling Mounting Bracket (C90)

- ☞ 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 6)
- ☞ Secure the wall mounting bracket to the structure by using four fasteners (not provided). (Figure 7)

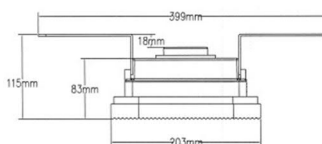


Figure 6

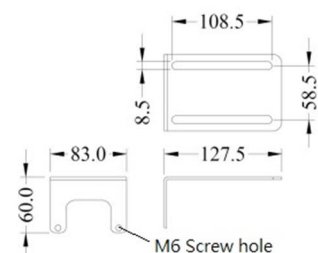


Figure 7

### 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

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- ▶ 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

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- ▶ 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.