

Luminaire For Hazardous Locations

Installation and Maintenance Manual

HazLoc L1217



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

Website: www.tht-ex.com
TEL: +886 2 22689570
FAX: +886 2 22689571
e-mail: sales@tht-ex.com

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1. General Information

HazLoc L1217 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
- Class II, Division 2, Groups 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).



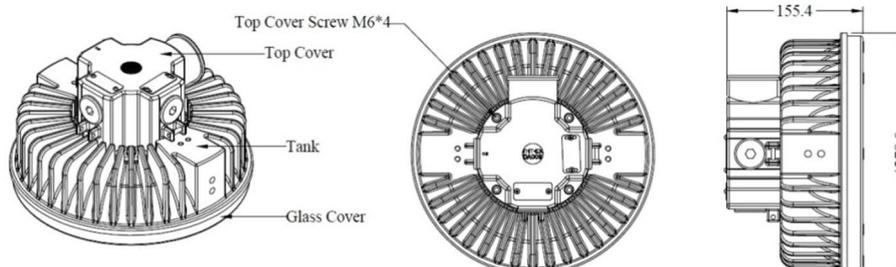
HazLoc L1217 LED Luminaire is designed for using in indoors and outdoors environment.

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

WARNING

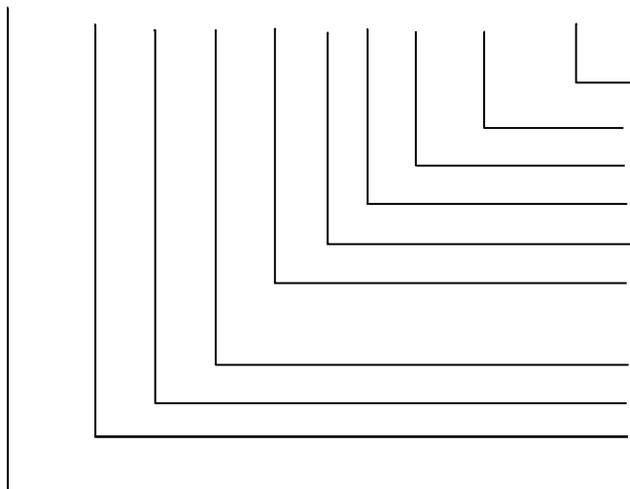
- ▶ **To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable codes and regulations.**
- ▶ **To avoid electric shock:**
 - ✓ Be certain electrical power is OFF before and during 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.
 - ✓ 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

THT	2L	A	140	Z	5	9	C	1217	-P90
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Mounting means, P90 = Straight electrical tube mounting*
 Suffix for Mfr. internal use only, 1217 = Model L1217
 C.C.T., C = Cool White, W = Warm White
 Voltage, 6=120 Vac, 9 = 277 Vac, C=480 Vac
 Temperature code, 5 = T3C (160°C)
 Hazardous location use, Z = Class I, Div. 2; and Class II, Div. 2
 Wattage, 140 = 140 W**
 Current, A = AC
 2L: Designates LED module construction
 Brand, THT = Top Hi-Tech Co., Ltd.

* WHT = Two position (wall/ceiling) adjustable trunion, each position with two aiming angles (25° and 90° adjustable), S25 = Bending electrical tube mounting 25°, S90 = Bending electrical tube mounting 90°, P90 = Straight electrical tube mounting 90°

** 120 = 120 watt, 140 = 140 watt

4. Technical Data

Item	Description		
Rated Voltage	120/277/480 Vac, 50 & 60 Hz		
Ambient Temperature Range	-40°C ~ +40°C		
Material Enclosure Glass	Aluminum alloy Heat and impact resistant tempered glass		
LED Service Life	60,000 hrs		
Entrance Hole	4*M25 threaded holes		
Mounting Type / Weight	Two-position (wall/ceiling) adjustable trunion, each position with two aiming angles (25° and 90° adjustable)		
	12.4 kg	12.4 kg	13.0 kg
	Bending Electrical Tube Mounting 25°	Bending Electrical Tube Mounting 90°	Straight Electrical Tube Mounting 90°
12.2 kg	12.3 kg	11.6 kg	

5. Assembly and Installation

5.1 Electrical Connection

- ☞ Loosen the 4*M6 screws of Top Cover of the luminaire (Tank).
- ☞ Choose one M25 entry hole of Top Cover intended for installation then loosen the attached plug by proper hex-wrench. The thread of each entry hole of Top Cover is M25. Attach the chose entry hole to suitable conduit.
- ☞ Insert the suitable field wiring by AHJ from outside through the conduit and the 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):

- White – wire connects to Neutral;
- Red – wire connects to Line;
- Green – wire connects to Ground.
- ☞ Re-attach the Top Cover to Tank and tighten it by respective 4*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 Two Position (wall/ceiling) Adjustable Trunion Mounting Bracket (WHT)

- ☞ The mounting bracket is for the use of wall and ceiling mounting.
- ☞ Position the bracket holders and fix it by means of the provided M8 screws, 24.5 kgf-cm. (Figures 1 and 3)
- ☞ Secure the wall mounting bracket to the structure

- by using four fasteners (not provided). (Figures 2 and 4)
- ☞ The lighting can be adjusted by 25° (Lens facing down 25° from vertical) or 90° (Lens facing down 90° from vertical).

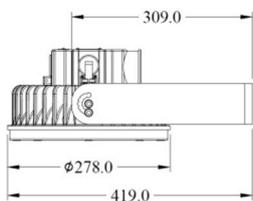


Figure 1

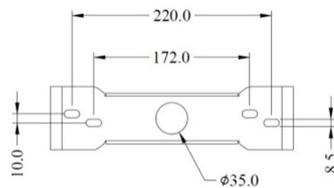


Figure 2

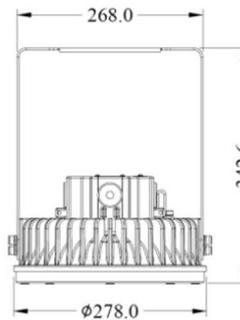


Figure 3

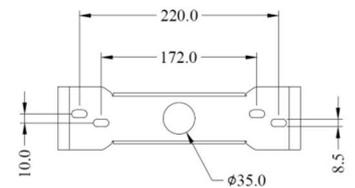


Figure 4

5.2.2 Bending Electrical Tube Mounting (S90 & S25)

- ☞ The mounting type is for the use of bending electrical tube mounting.
- ☞ Tube mounting thread is 1-1/2 NPT for connecting with conduit 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 5 and 6)

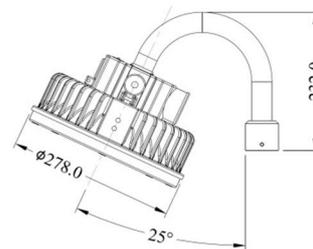


Figure 5

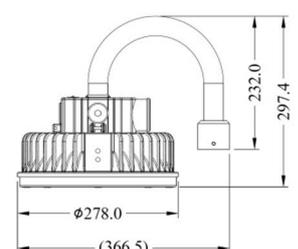


Figure 6

5.2.3 Straight Electrical Tube Mounting (P90)

- ☞ The mounting type is for the use of straight electrical tube mounting.
- ☞ Tube mounting thread is 1-1/2 NPT for connecting with conduit 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 7)

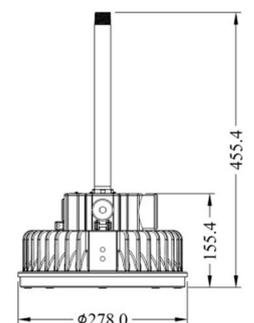


Figure 7

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 field wiring has been inserted correctly by 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. 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.