

HazLoc LED LUMINAIRE

Installation and Maintenance Manual

HazLoc L1905 series

THT-EX

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Pub. Code: RD-UL-L1905-A(CID2)
Subject to alterations
Revision Level: A0
Date: 2021-05-12

1. General Information

HazLoc L1905 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):

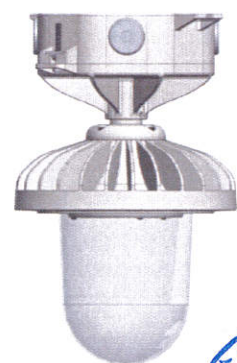
☞ Class I, Division 2, Groups A, B, C, D

Wet Locations (UL 1598)

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

HazLoc L1905 LED Luminaire is designed for using in indoors and outdoors environment.

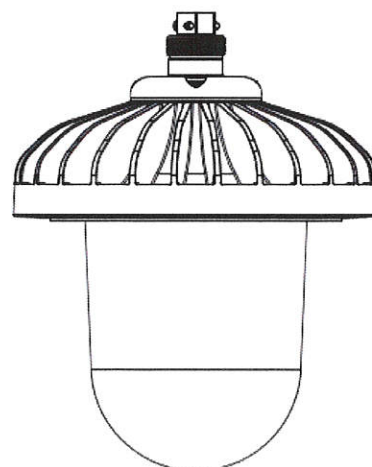
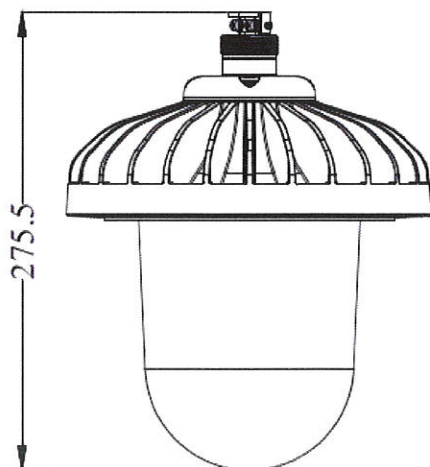
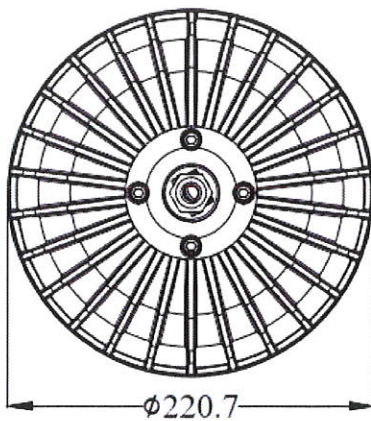
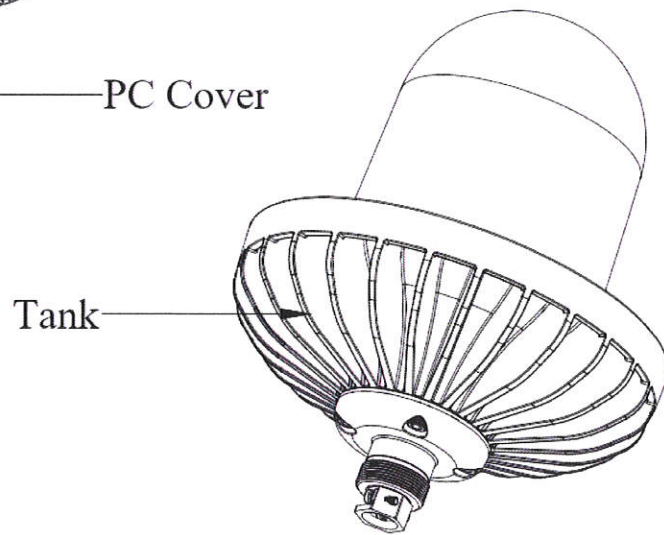
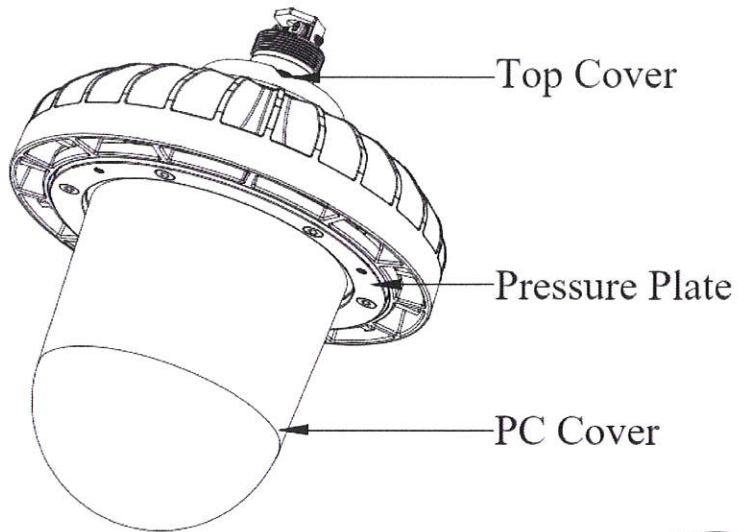
Ambient Temperature Range: -40°C ~ +40°C (T4A) & -40°C ~ +60°C (T3C)

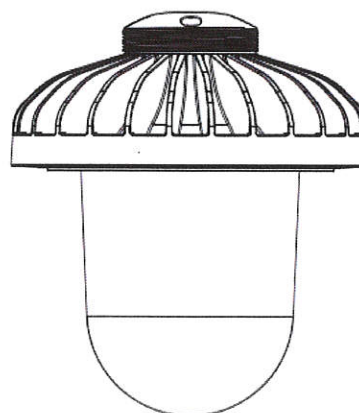
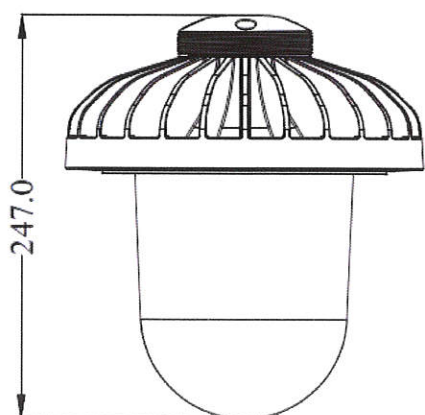
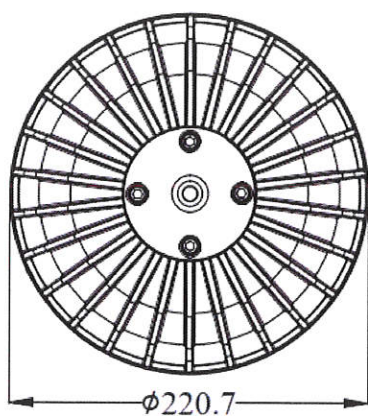
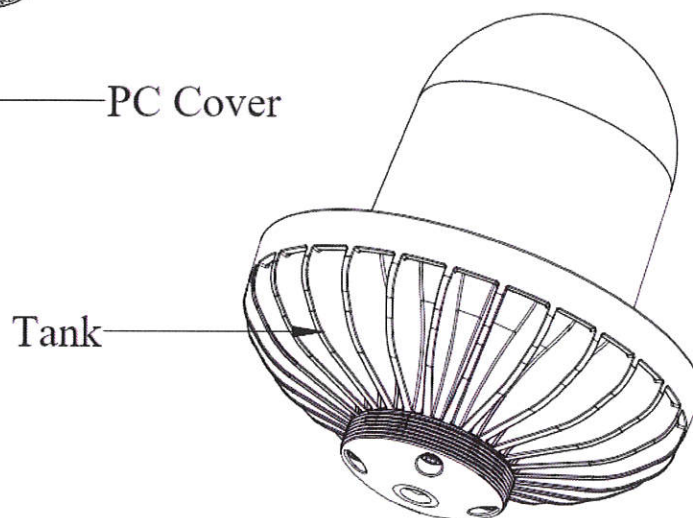
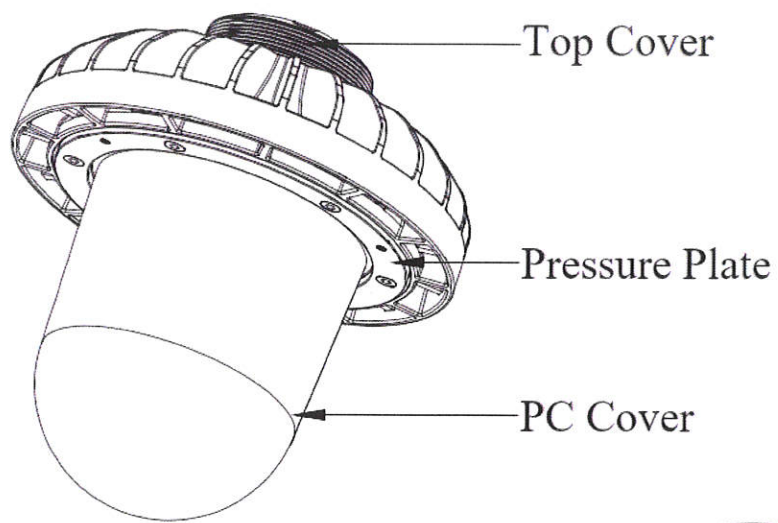


WARNING

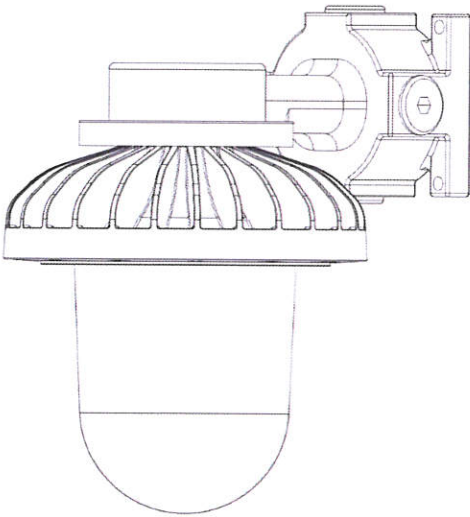
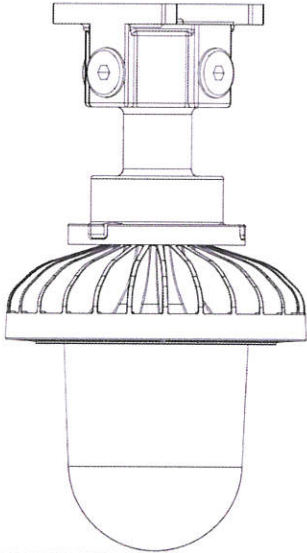
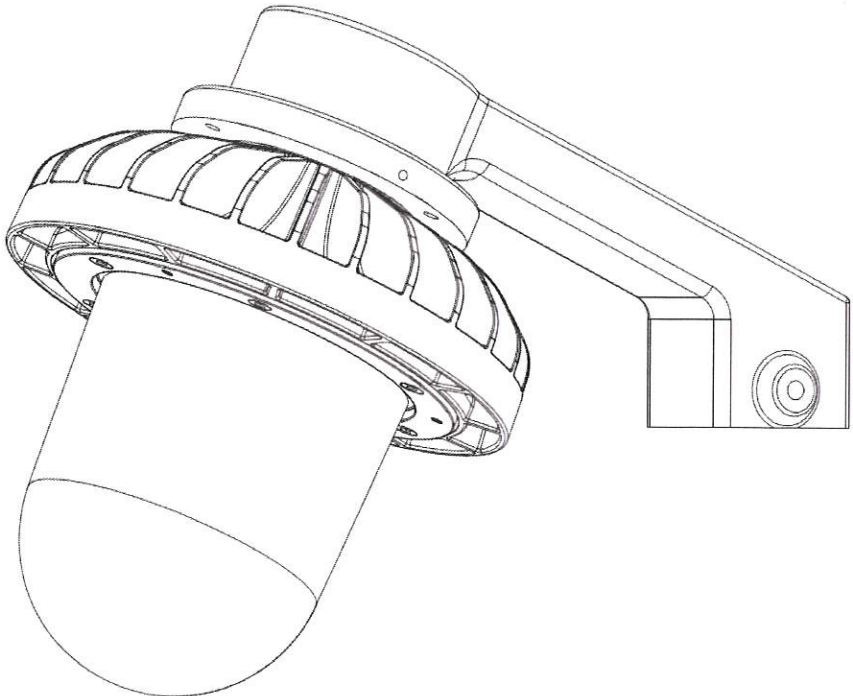
- To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable codes and regulations.
- To avoid electric shock:
 - ✓ Be certain electrical power is OFF before and during installation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





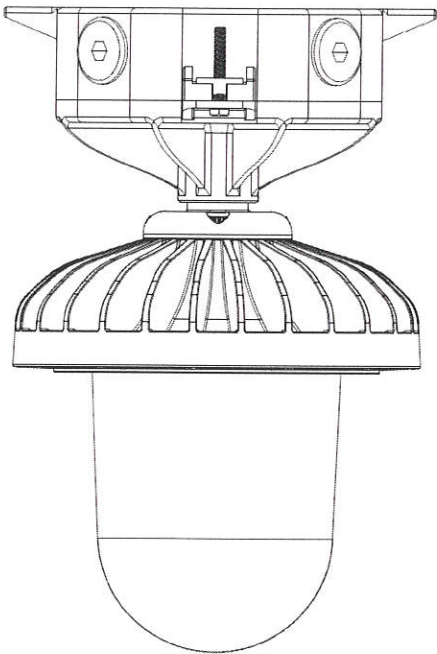
3. Technical Data

Item	Description	
Rated Voltage	100/ 110/ 120/ 200/ 208/ 220/ 230/ 240/ 277/ 347/ 480 Vac (Note information on type label)	
Watts ($\pm 10\%$)	10/ 20 Watts (For DCOB type only) ; 40/ 50/ 60 Watts (For SMD type only)	
Frequency	50/60 Hz	
Power Factor	$\cos > 0.9$	
Degree of protection	IP67	
Ambient Temperate Range	$-40^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (T4A) and $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$ (T3C)	
Material	Aluminum alloy	
Enclosure	Polycarbonate	
Illuminate Enclosure		
LED Service Life	60,000 hrs.	
Mounting Type	Wall Mounting	Hanging Mounting
		
	Stanchion Mounting	
		



Mounting Type

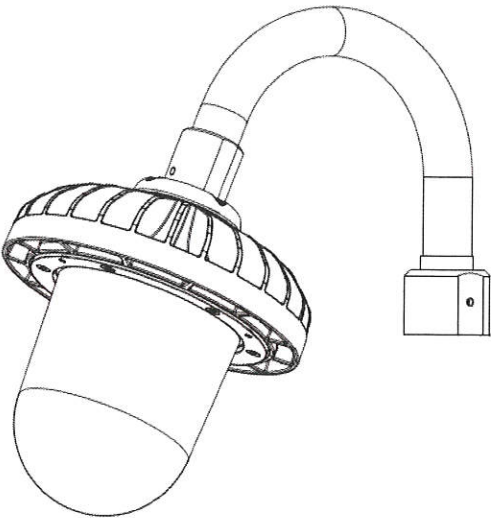
Ceiling Mounting



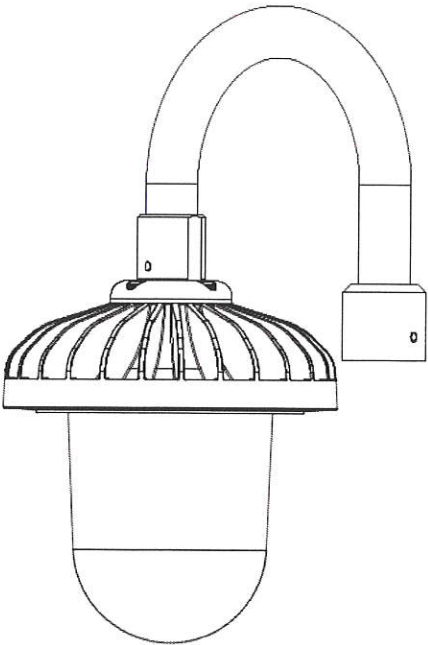
Pendant Mounting



Stanchion Mounting (25°)



Stanchion Mounting (90°)



4. Assembly and Installation

4.1 Electrical Connection

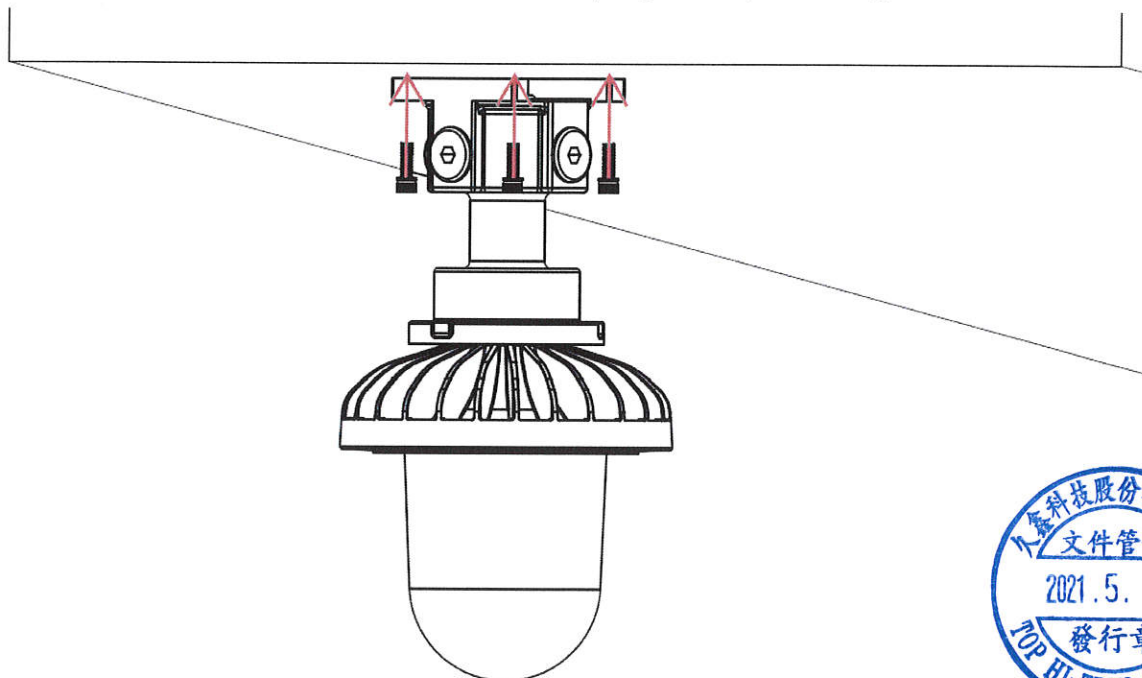
Overview of Electrical Connection :

- ☞ Fix and Introduce the wires of luminary with the terminal post of Junction Box (White-wire connects to Neutral; Red-wire connects to Live; Green-wire connects to Ground.)

4.2 Mounting Bracket Installation

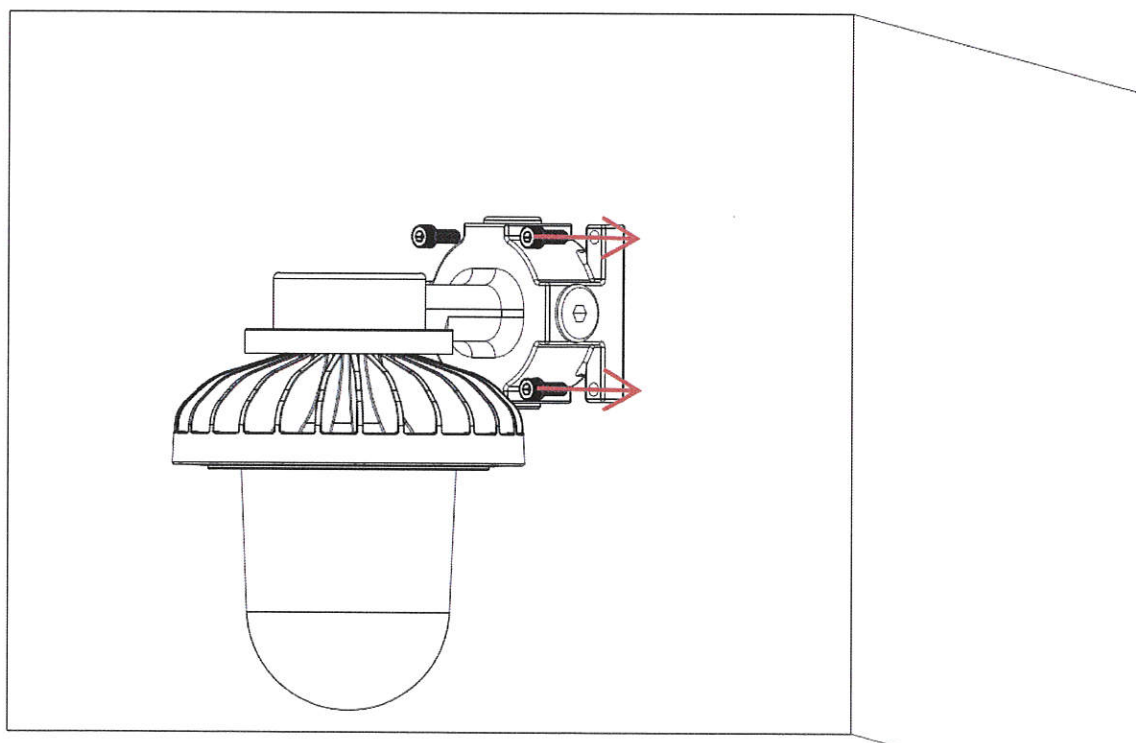
4.2.1 Hanging Mounting

- ☞ The mount bracket is for surface mounting to ceiling.
- ☞ Secured by means of the four M8 screws (not provided) with 61 kgf-cm.



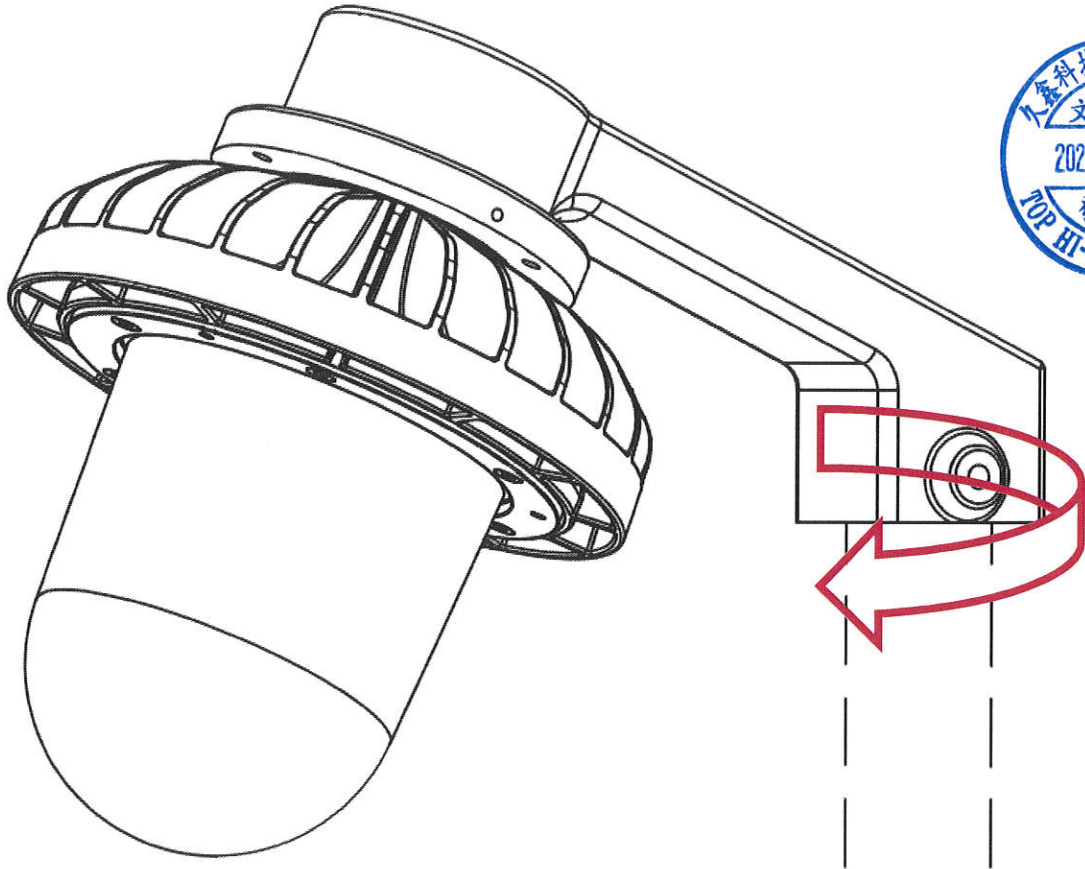
4.2.2 Wall Mounting

- ☞ The mount bracket is for surface mounting to wall.
- ☞ secured by means of the four M8 screws (not provided) with 61 kgf-cm.



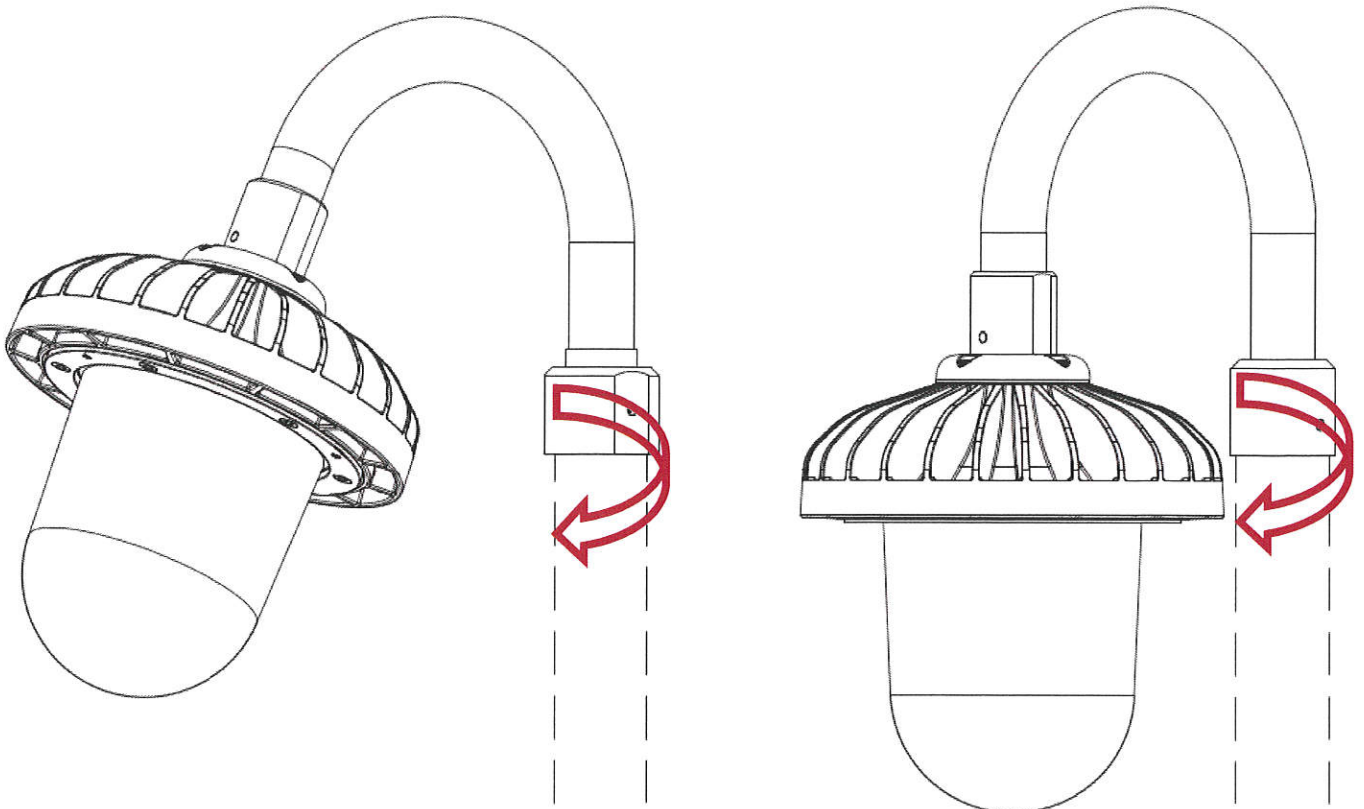
4.2.3 Stanchion Mounting

- ☞ The pipe thread with thread lock on the stanchion.
(After the installation is completed to confirm the electric tube is locking in the column.)



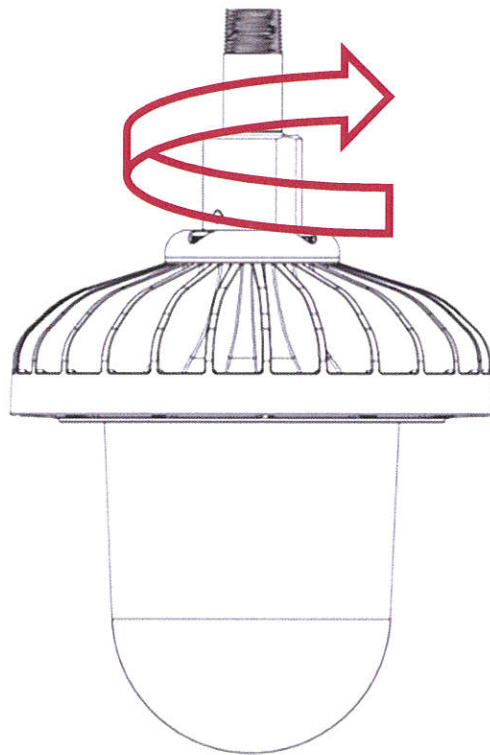
4.2.4 Stanchion Mounting for Electrical Tube (25 degrees and 90 degrees)

- ☞ The pipe thread with thread lock on the stanchion.
(After the installation is completed to confirm the electric tube is locking in the column.)



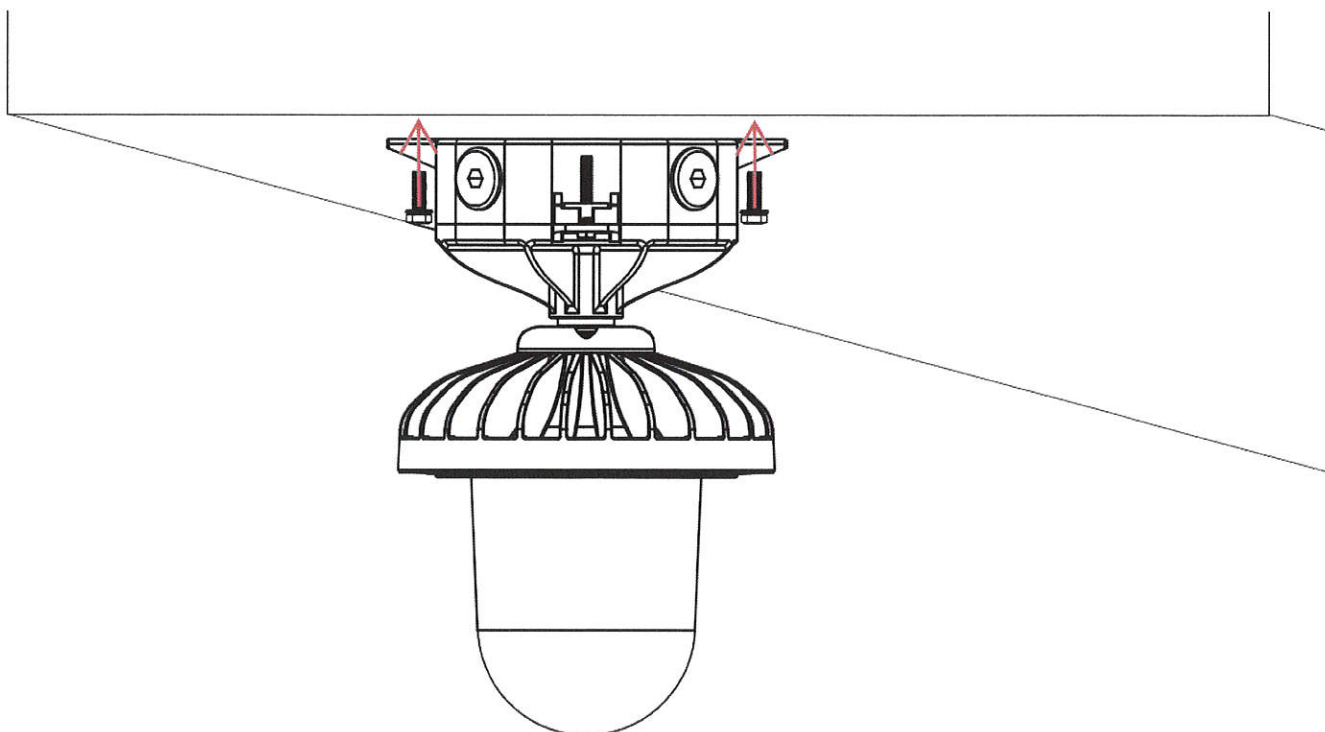
4.2.5 Pendant Mounting

- ☞ The straight electric tube, one end secured to Nipple Body of Nipple (Adapter) Assembly by integral M35 male threads and with a setscrew; the other end provided with 3/4" NPT male threads for connecting with conduit by AHJ.
- ☞ Thread the tube mounting on conduit and torque until wrench-tight with 1500 kgf-cm.



4.2.6 Ceiling Mounting

- ☞ The mounting bracket is for the use of Ceiling mounting type.
- ☞ Position the bracket holders and fix it by means of the provided M8 screws, 61.0 kgf-cm.
- ☞ Capturing the luminares hinge pin inside the adapter hinge hook, clamp the adapter down, Thread the captive closing screw into the adapter, and tighten it to 30 in.-lbs (3.4 N-m).





4.3 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.

5. 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.

6. 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.