

Luminaire For Hazardous Locations

Installation and Maintenance Manual

Model L1733N



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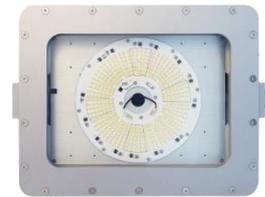
1. General Information

Model L1733N 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).

Model L1733N LED luminaire is designed for using in indoors and outdoors environment.

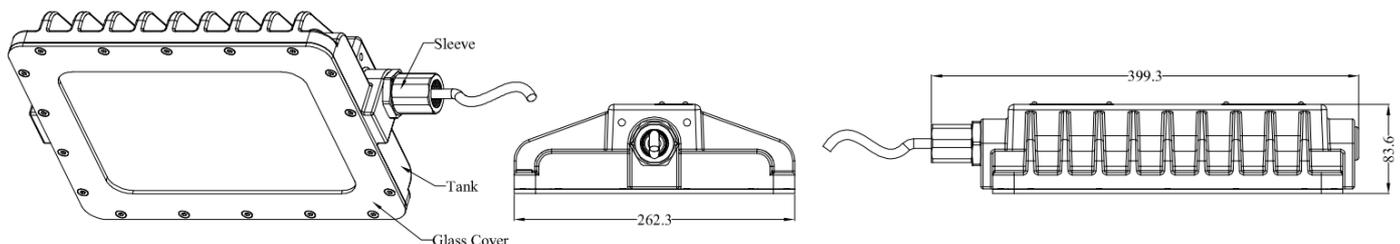


Rated Voltage: 120/277/347/480/100~277/
200~480 Vac, 50 & 60 Hz
Rated Voltage (DCOB): 120/277/347V/480 Vac,
50 & 60 Hz
Rated Voltage (AC In SMD): 120/277 Vac,
50 & 60 Hz
Rated Voltage (DC In SMD): 100~277/
200~480 Vac 50 & 60 Hz

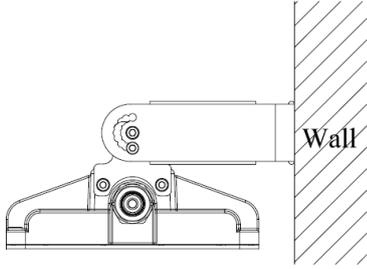
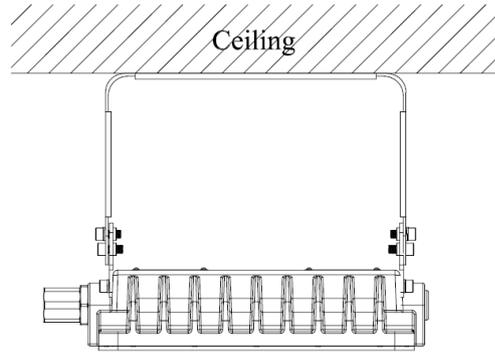
WARNING

- ▶ **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 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.
 - ✓ 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)



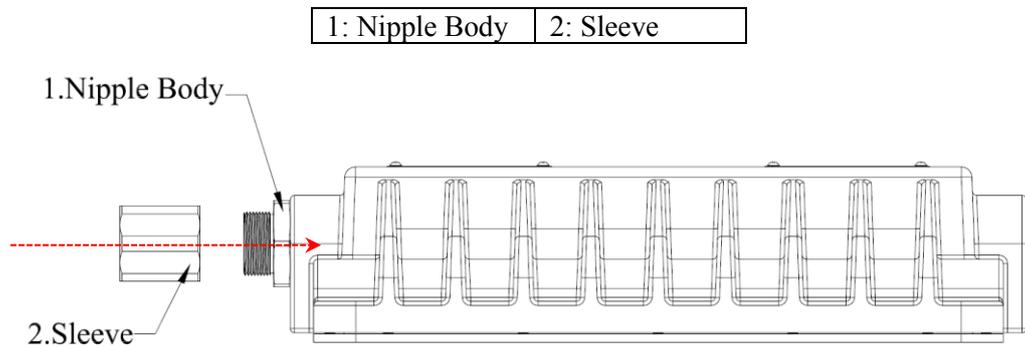
3. Technical Data

Item	Description	
Rated Voltage	120/277/347/480 /100~277/200~480Vac(±10%), 50 & 60 Hz	
Wattage	110W / 120W / 130W / 140W / 150W / 160W (±10%)	
Color of LED light	3000K ± 10% (Warm White) / 5000K ± 10% (Cool White)	
CRI	> 80	
Power Factor	$\cos \phi \geq 0.9$	
Ambient Temperature Range	-20°C ~ +50°C (DCOB / AC SMD) -20°C ~ +40°C (DC SMD)	
Material Enclosure Glass	Aluminum alloy / Steel Height tempered glass	
LED Service Life	60,000 hrs	
Supply Entrance Hole	1×NPT 3/4" Threaded holes	
Fitting Cable	Size of Sealing Ring	Fitting Cable
	ID: Ø9.0	OD: Ø9.0
Mounting Type / Weight (Net Luminaire Weight: 7.3 kg)	Adjustable Trunnion (Wall & Ceiling) Mounting	
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Wall</p> </div> <div style="text-align: center;">  <p>Ceiling</p> </div> </div> <p style="text-align: center; margin-top: 10px;">9.8kg</p>	

4. Assembly and Installation

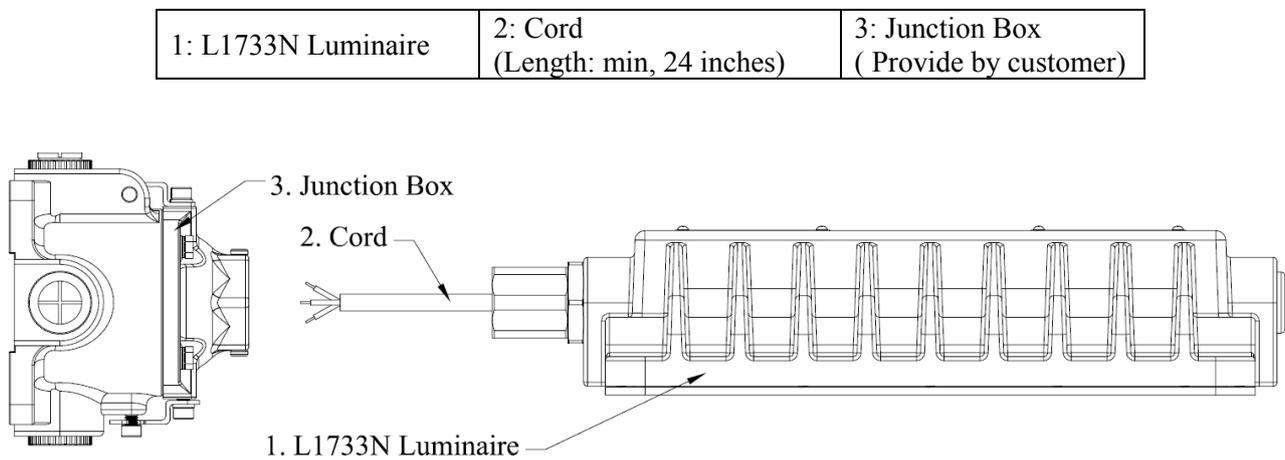
4.1 Electrical Connection

Overview of Nipple Assembly



The Sleeve is equipped by mounting the Nipple Body.

Overview of Electrical Connection



1. Insert the cord (2) through the conduit (not shown, provide in the field) into the Junction Box (3) (provide in the field).
2. Fix and Introduce the wires of luminaire 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 Two position Adjustable Trunnion (Wall & Ceiling) Mounting - each position with one aiming angle

- ☞ The mount bracket is for surface mounting to wall (Figure 1) and ceiling (Figure 2).
- ☞ Position the bracket holders and secured by means of the provided M8 screws with 61 kgf-cm.
- ☞ Secure the wall/ceiling mounting bracket to the mounting surface by using four fasteners (not provided).
- ☞ The luminaire can be adjusted in one position as shown in Figures 1 and 2.

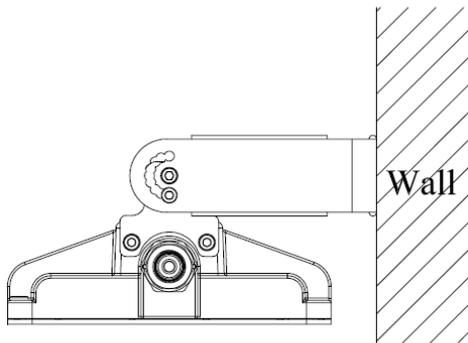


Figure 1

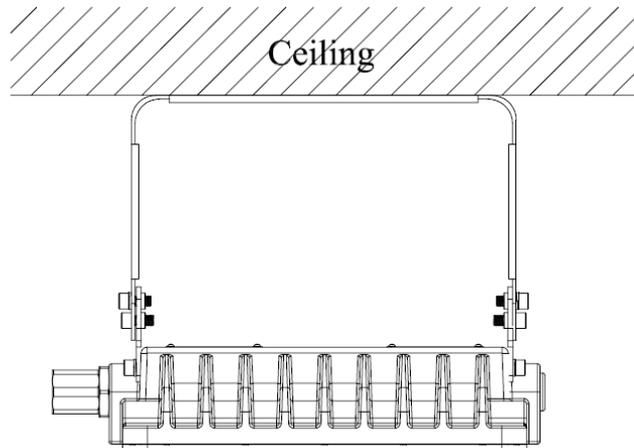


Figure 2

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 luminaire 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.