

HazLoc LED Luminaire

Installation and Maintenance Manual

HazLoc L1319C Series

THT-EX

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1. General Information

Model L1319C LED Luminaires are suitable for use in the following hazardous (classified) areas as defined by the IEC Scheme for Certification to Standards for Electrical Equipment for Explosive Atmospheres (IECEX) and ATmosphere EXplosibles (ATEX) :

- IECEx UL 21.0037X Issue 2
Ex nR IIC T4... T5...T6 Gc
Ex tb IIIC T115°C...T110°C... T95°C... T70°C... T65°C... T60°C Db
- UL 21 ATEX 2398X Rev. 2 (Type Exam)
UL 21 ATEX 2397X Rev. 2 (EU Type)
CE II 3 G Ex nR IIC T4... T5...T6 Gc
CE0035 II 2 D Ex tb IIIC T115°C...T110°C... T95°C... T70°C... T65°C... T60°C Db

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

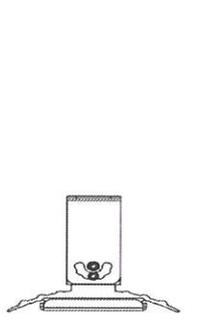
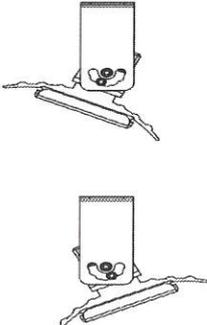
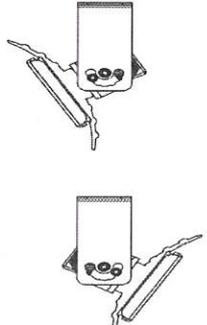
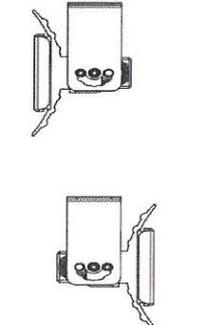
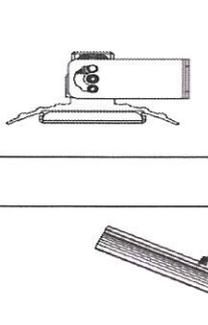
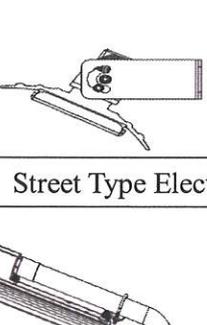
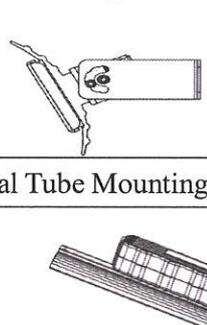
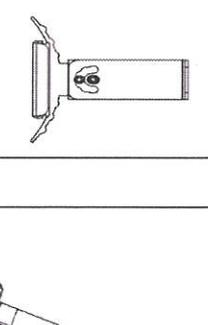
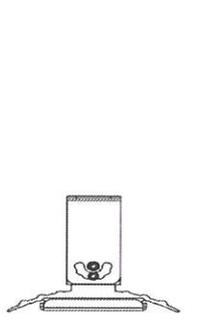
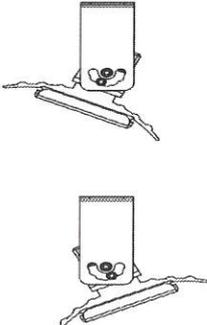
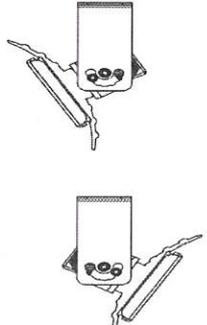
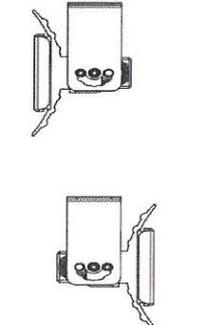
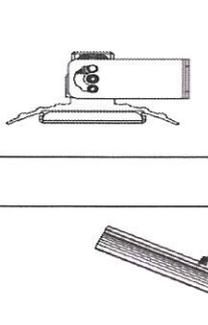
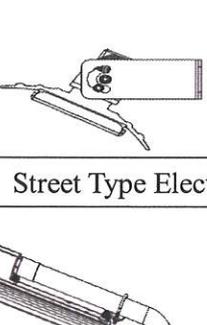
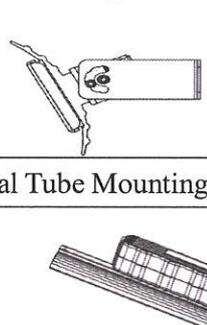
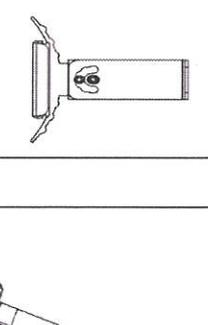
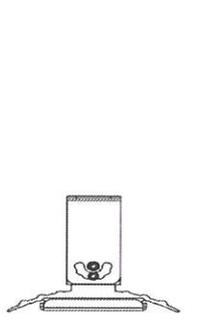
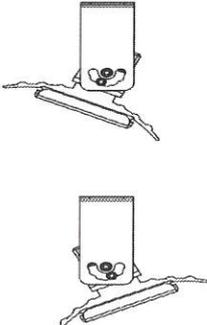
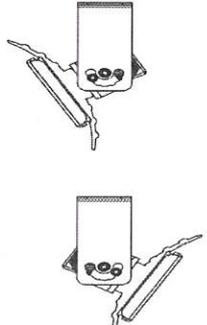
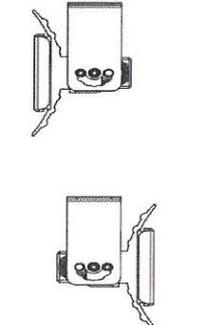
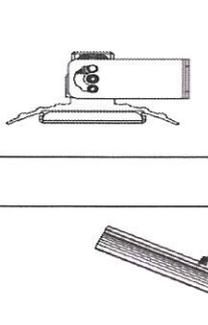
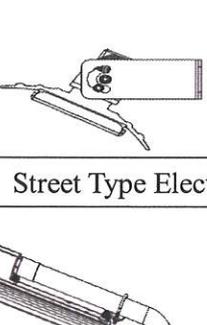
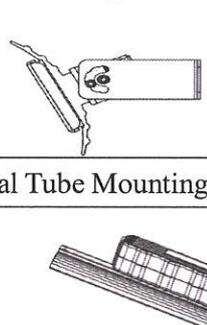
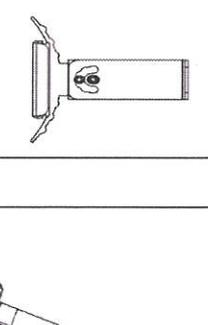
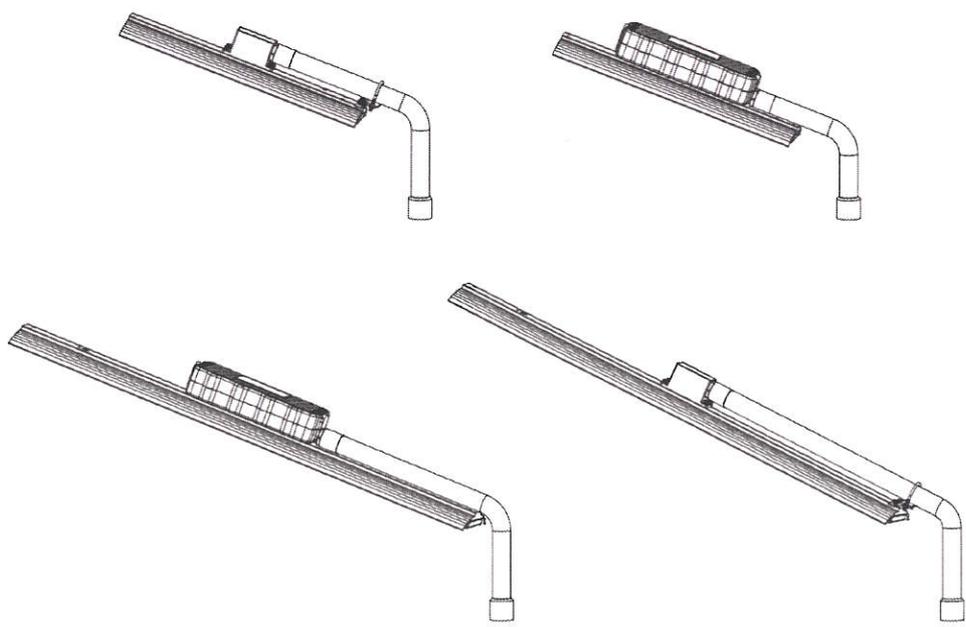
Model L1319C LED Luminaire is designed for using in indoors and outdoors environment.



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.
- ◆ WARNING - Potential Electrostatic Charging Hazard. Please wipe with a damp cloth when cleaning.
- ◆ WARNING - The luminaire shall not be opened.
- ◆ WARNING - The luminaire does not have a test port fitted.
- ◆ WARNING - The gasket not to be replaced in the field.

2. Technical Data

Item	Description												
Frequency	50/60 Hz												
Degree of protection	IP66												
LED Service Life	60,000 hrs.												
Material Enclosure Glass	Aluminum alloy Heat and impact resistant tempered Glass												
<p>Luminaire provide with cable gland and cable which assembled at the factory. A torque with 60 N-m shall apply to the Pressure Nut to compress the Tube at the factory. Cable gland is for circular (round), non-metal sheathed cables. The cable type is: SOOW, 18/3C AWG, 105°C, 1-3 m length. Size of Tube: ID Ø9.0 (Fitting Cable: OD Ø9), L=15 mm</p>													
Mounting Type	<p style="text-align: center;">Adjustable Trunnion Mounting Bracket (WHT)</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th data-bbox="502 712 742 795">Lens facing down 90° from vertical</th> <th data-bbox="750 712 981 795">Lens facing down 25° from vertical</th> <th data-bbox="997 712 1228 795">Lens facing down 60° from vertical</th> <th data-bbox="1244 712 1468 795">Lens facing horizontal</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Lens facing down 90° from vertical	Lens facing down 25° from vertical	Lens facing down 60° from vertical	Lens facing horizontal								
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<p style="text-align: center;">Street Type Electrical Tube Mounting</p> 													

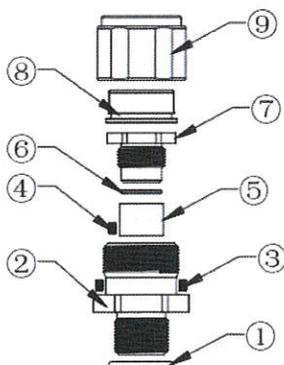


Electrical Rating				
Models	Voltage	Wattage (W)		
THTH1319vCBxfD0	110/120/220/230/277Vac	40		
THTH1319vCBxfF0		60		
THTH1319uCBxfH0		80		
THTH1319uCBxfL0		120		
v can be C or E; u can be D or F; x can be C or W; f can be 1, 6, 2, D or 9				
Models	Ambient Temperature range	'nR' Temperature Code	'tb' Temperature Rating	
THTH1319vCBxfD0	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	T6	T60°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +80^{\circ}\text{C}$	T5	T95°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +95^{\circ}\text{C}$	T4	T110°C	
THTH1319vCBxfF0	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	T6	T65°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +75^{\circ}\text{C}$	T5	T95°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +95^{\circ}\text{C}$	T4	T115°C	
THTH1319uCBxfH0	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	T6	T65°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +75^{\circ}\text{C}$	T5	T95°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +95^{\circ}\text{C}$	T4	T115°C	
THTH1319uCBxfL0	$-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	T6	T70°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$	T5	T95°C	
	$-20^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$	T4	T110°C	
Note:				
Series type	Type of Top Cover	CCT of LED	Voltage	Wattage
C = 2ft length with clear glass E = 2ft length with matted glass D = 4ft length with clear glass F = 4ft length with matted glass	C = With Top Cover	C = Cool white W = Warm white	1 = 110Vac 6 = 120Vac 2 = 220Vac D = 230Vac 9 = 277Vac	D0 = 40W F0 = 60W H0 = 80W L0 = 120W

3. Assembly and Installation

3.1 Electrical Connection

Overview of Connection Base :



1. Nipple Body Gasket	4. M4 Socket Set Screws	7. Pressure Nut
2. Nipple Body	5. Tube	8. Connector
3. M4 Socket Set Screws	6. Washer	9. Sleeve

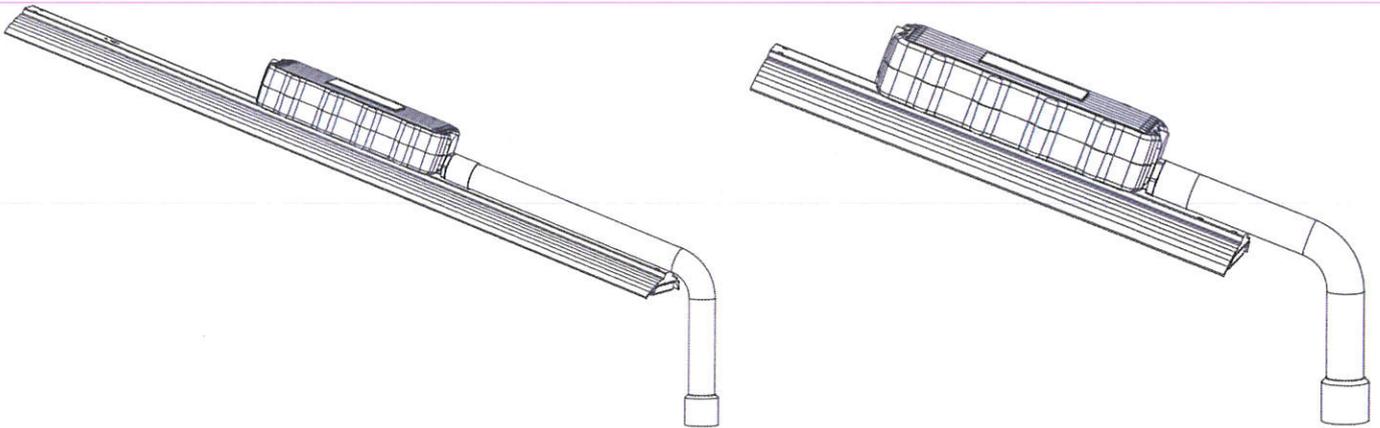
3.2 Mounting Bracket Installation

- 3.2.1 Two position Adjustable Trunnion (Wall & Ceiling) Mounting(WHT) - each position with one aiming angle(0 degree、25 degree、60 degree、90 degree) - Secured to wall/ceiling surface (The projection angle of the lamp can be adjusted according to the angle set by the bracket)



3.2.2 Street type electrical tube Mounting

- ☞ Elbow through the pipe clip into the lamp fixing tube, and then fix the lamp above the tube
M8 screws and pipe clamp 1/4 nut lock.



3.3 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.
- ☞ The voltage is correctly.
- ☞ The lighting fixture needs to be charged for 48 hours and it can provide 120 minutes illumination after fully charged.
- ☞ Continuously charge the Product for 48 hours before first time installation.
- ☞ It may result damage and/or inactive to the battery in case the Product continuously discharges over a month ;
Continuously charge the Product for 48 hours when the Product has continuously discharged for 30 days.



3.4 Ground wire

- External earth screw location as showing in the pictures.
- The external earth ground wire installation and terminal type as show the right pictures.
- Ground wire cross-sectional area=4mm² , Max LED current=0.55A; @V=110Vac-10%.
- Both ground screw and washer material is stainless steel.
- Screw hole Spec: M5.
- Torque requirement: 14.5 kgf.cm.
- Ensure wire is tied assured.



U Type



O Type



4. 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.
- Do not attempt to service the battery. The unit uses a sealed, Li-ion battery which requires no maintenance. For replacement, please contact the factory.

5. Accessories and Spare Parts

 **WARNING**

Use only original THT-EX accessories and spare parts. For accessories and spare parts, see data sheet at www.tht-ex.com.

6. Transport, Storage and Disposal

- Transport and storage are 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.

