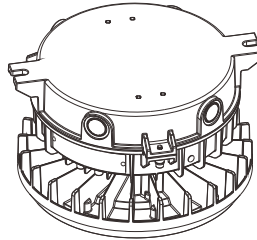


LED Luminaires for Hazardous Locations

EXA05 Emergency Series Installation And Operation Instructions



8500 Hansen Rd.
Houston, TX 77075 USA
Tel: (713) 943-0340
availinfra.com/rig-a-lite/



Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III

Class I, Zone 2, Group IIC
Zone 20 and Zone 21
Zone 22

Simultaneous Presence
Suitable for Use Wet Locations
Suitable for Marine locations
Emergency Battery Back-up
Type 4X IP66

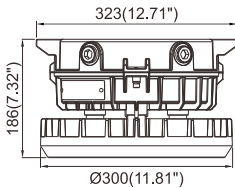
This product comply with below standard :
UL50E, UL 844, UL924, UL1598, UL1598A, UL 8750
CSA C22.2 No.137, CSA C22.2 No.141, CSA C22.2 No. 250.0



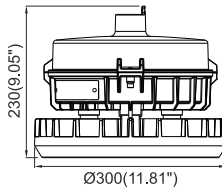
Typical application sites are:

Typical application sites are: Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, indoor/outdoor spotlighting, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

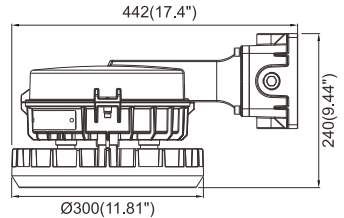
Physical Dimensions(Unit: mm/inch)



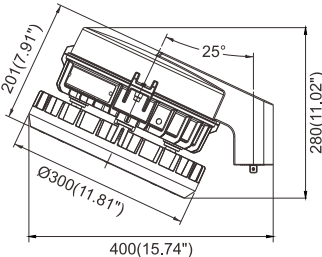
Ceiling mount



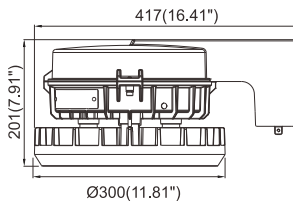
Pendant mount



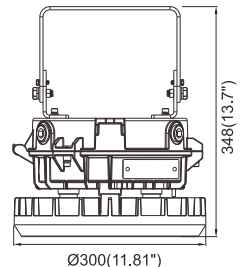
Wall bracket



25° Stanchion mount



90° Stanchion mount



Trunnion mount

Product Specifications

Product Specifications		50W
Input Voltage		100-277Vac, 50/60Hz
Outlook Dimensions	Ceiling Mount	323x300x186mm (12.71"x11.81"x7.32")
	Pendant Mount	Φ 300x230mm (Dia.11.81"x9.05")
	Wall Bracket	442x300x240mm (17.4"x11.81"x9.44")
	25°Stanchion Mount	400x300x280mm (15.74"x11.81"x11.02")
	90°Stanchion Mount	417x300x201mm (16.41"x11.81"x7.91")
	Trunnion Mount	Φ 300x348mm (Dia.11.81"x13.7")
Luminaire Net Weight	Ceiling Mount	6.9kg (15.21Lbs)
	Pendant Mount	6.5kg (14.33Lbs)
	Wall Bracket	8.9kg (19.62Lbs)
	25°Stanchion Mount	8.0kg (17.64Lbs)
	90°Stanchion Mount	8.3kg (18.30Lbs)
	Trunnion Mount	8.5kg (18.74Lbs)
Working Temperature		0°C to +60°C(32°F to +140°F)
Storing Temperature		-40°C to +70°C(-40°F to +158°F)
EM Wattage & EM Time		9W 1.5Hours
Battery Capacity		6.4V 3200mAh

Luminaire Shipping Packing List

Name	QTY
EXA05 series luminaire	1PC
EXA05 emergency series installation and operation instructions	1PC

Model description

EXA 05-XXX-X-XX-XXX-XX-X-XX

Options: EM=Emergency Battery.

Mounting style: C=Ceiling mount; P=Pendant mount; W=Wall bracket; S=25°Stanchion mount; V=90°Stanchion mount; T=Trunnion mount.

Diffusion material: CG=Clear Glass.

Beam distribution: 014=T13801; 015=T13803; 016=T13805.

CCT(K): 20=2000; ...; 65=6500; Re=Red; Gr=Green; Bl=Blue; Am=Amber.

Voltage: U=100-277Vac, 50/60Hz;

Lamp wattage: 050=50W;.

Lamp code: 05

Series constant: EXA-Hazardous

Installation And Operation Instructions

Dear Customers and Users:

Thank you very much for purchasing our product. In order to better understand how to use this product safely, please read this manual patiently and carefully. And please keep the manual properly for future reference.

Warnings:

- 1.The product can be connected to a power supply of 100-277VAC 50/60Hz, as specified on the label on the product.
- 2.DO NOT dismantle, modify or replace any internal electronic components. If you have any confusion during installation, please contact local dealer or contact us directly.
- 3.Please be sure to turn off the power before installation, maintenance or any other actions that may touch the light.
- 4.DO NOT install the lights on the surface that is easy to be damaged and deformed.
- 5.Under no circumstances can this light be covered with thermal insulation or any other similar materials.
- 6.If emergency or abnormality occurs, please cut off the power firstly and contact your local dealer as soon as possible
- 7.The product is suitable for both indoor and outdoor use.
- 8.Any installation and maintenance must be performed by certified electricians only.
- 9.Do not use this luminaire on an ungrounded circuit, otherwise it can cause a fatal electric shock.
- 10.Do not look directly at the LEDs when energized.

Safety Installation Guides

It's very important to cut off the power before removing the fixtures. Also, installer needs to be a qualified electrician. Remember, cut off power for at least 5 minutes then operate the removal.

● On-site installing

This manual is to provide the user with professional installation information, because the lamp is used in dangerous areas, so the qualified electrician is required. The inlet screw is NPT thread (See the nameplate for details), conduit entry must be installed with certified cable gland or blanking plug

● Use and setting-up

This manual is to provide the user with professional installation information, because the lamp is used in dangerous All wires need to be tested for proper connection and safe installation before use. In order to avoid the risk of electrical damage and installation safety problem, these jobs must be performed by a qualified electrician.

● Assembling and dismantling

Installer needs to read the instruction carefully before processing the assembling. Please feel free to contact the manufacturer if there is confusion during the installation.

● Training instructions for a safe use

Regarding the wiring diagram, please refers to installation detailed instruction below. Normally, brown (or black) wire connects to live wire, blue (or white) to neutral wire, yellow with green (or green) strips to the grounding.

Note: The front light source cavity is not allowed to be opened during field installation.

Other parameters: See Table 1 for details

Table 1

Product model	Input Voltage	Rated Power	Tamb	T-Code	
				CL.I DIV.2	CL.II & CL.III
EXA05-50 Emergency series	100-277Vac	50W(Normal Power) 9W(Power In emergency)	0°C to +60°C	T6	T6

WARNING - EXPLOSION HAZARD - BATTERIES MUST ONLY BE CHANGED IN AN AREA FREE OF IGNITIBLE CONCENTRATIONS.

AVERTISSEMENT - RISQUE D'EXPLOSION - LES BATTERIES DOIVENT ÊTRE CHANGÉES UNIQUEMENT DANS UNE ZONE EXEMPT DE CONCENTRATIONS INFLAMMABLES.

CAUTION: To Reduce The Risk Of Ignition Of Hazardous Atmospheres, Disconnect The Luminaire From The Supply Circuit Before Opening. Keep Tightly Closed When In Operation

ATTENTION: Pour réduire le risque d'inflammation d'atmosphères dangereuses, débranchez le luminaire du circuit d'alimentation avant de l'ouvrir. Garder hermétiquement fermé lors de l'utilisation

Emergency Instructions

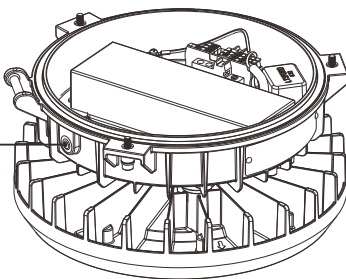
Test switch with LED indicator:

Test switch: When the mains is connected, the emergency power module will work. If the test switch is pressed, the emergency power module will enter the emergency mode. If the switch is released, the lamp will enter the normal mains working mode, and the emergency power module will enter the charging mode.

LED indicator: LED indicator can indicate charging or non-charging status. When the battery is connected and there is mains power, the LED indicator lights up red, indicating that it is charging or fully charged; when the battery is not connected or there is no mains power supply or the emergency mode is working, the LED indicator is off.

NOTE: During normal operation, this switch is not used.

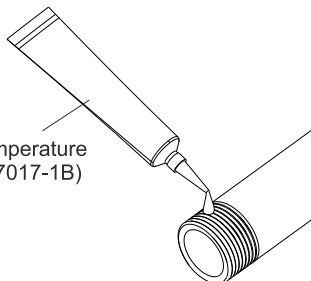
Test switch with
LED indicator



Dimensions and Installation for Mounting Accessories

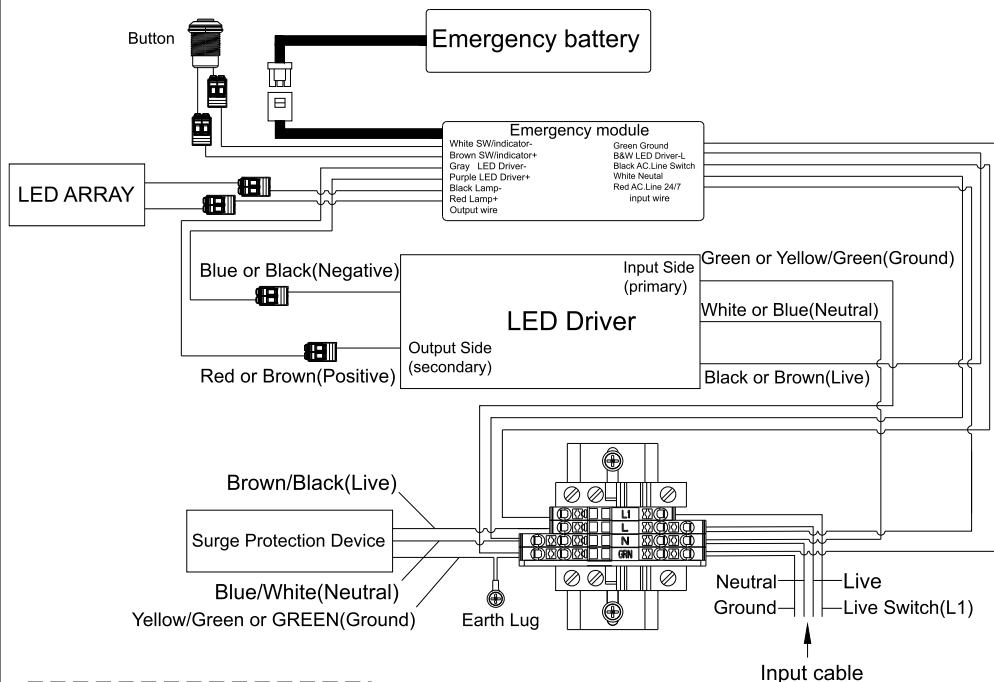
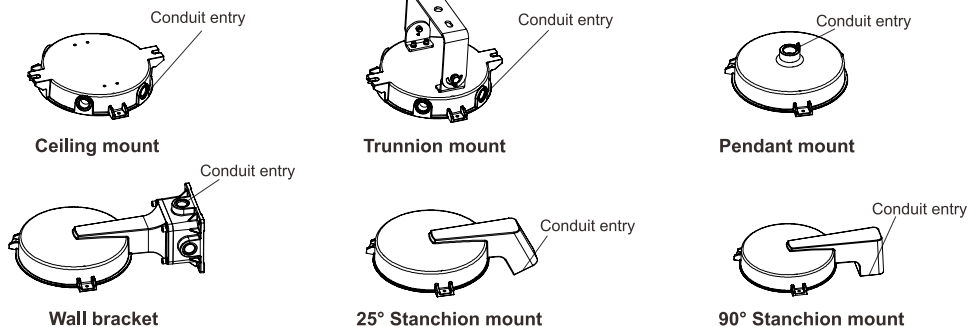
- Before installation, the threads on the conduit should be coated with grease (such as Grease 7017-B), and evenly coated.
- The protection level of conduit and the luminaire is above IP66.

High and Low Temperature
(such as Grease 7017-1B)



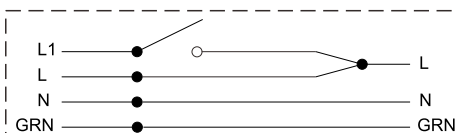
Wiring Diagram

One pc hub

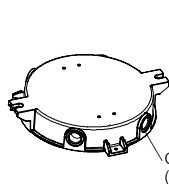


Note:

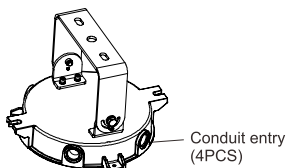
1. L1 (Live Switch) can be connected to a live wire switch (also called a normally-closed switch). When there is power, after turning off this switch (disconnect the live wire), the fixture would be off, but the battery is still in charging mode, and indicator would turn red. When the power is disconnected, the fixture would enter emergency mode.
2. When there is no need to connect the Live Switch, L1 (Live Switch) and L could be connected together.



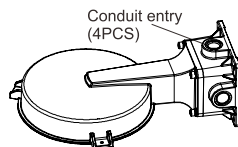
Two or more pcs hubs



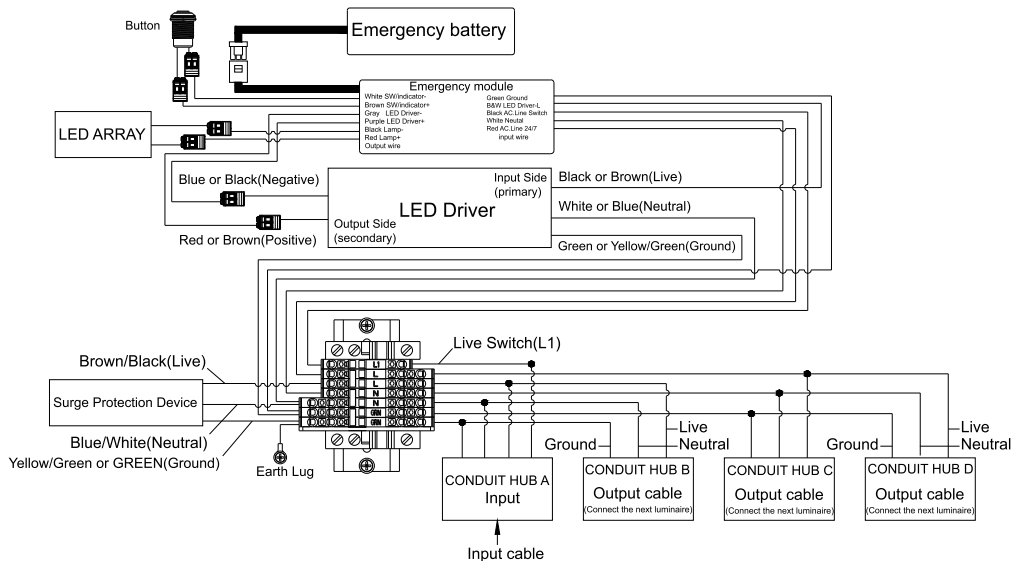
Ceiling mount



Trunnion mount

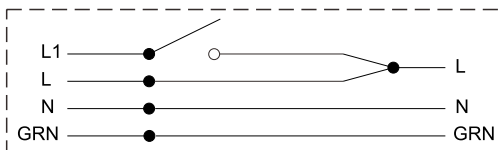


Wall bracket



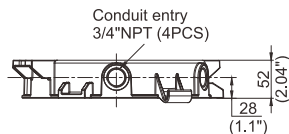
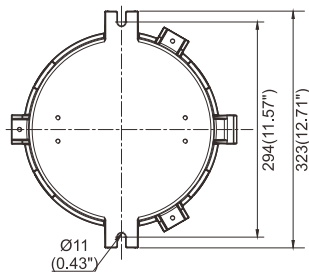
Note:

1. L1 (Live Switch) can be connected to a live wire switch (also called a normally-closed switch). When there is power, after turning off this switch (disconnect the live wire), the fixture would be off, but the battery is still in charging mode, and indicator would turn red. When the power is disconnected, the fixture would enter emergency mode.
2. When there is no need to connect the Live Switch, L1 (Live Switch) and L could be connected together.
3. CONDUIT HUB B,C and D can be used for Interconnect luminaire and should be blocked with plugs when not in use.

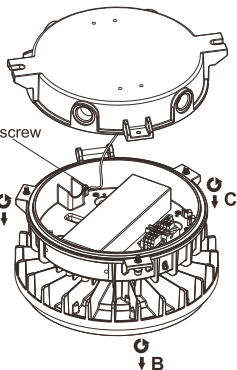


Ceiling Mount

Unit: mm/inch



1. ✕



Remove the screw

↓ B

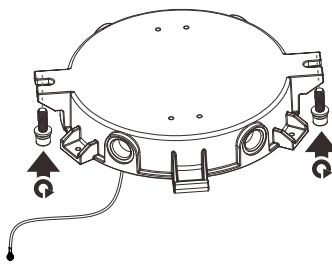
Unscrew the A, B, C three screws on the power box counter clockwise

5 ✓ 4 N.m

2. ✕

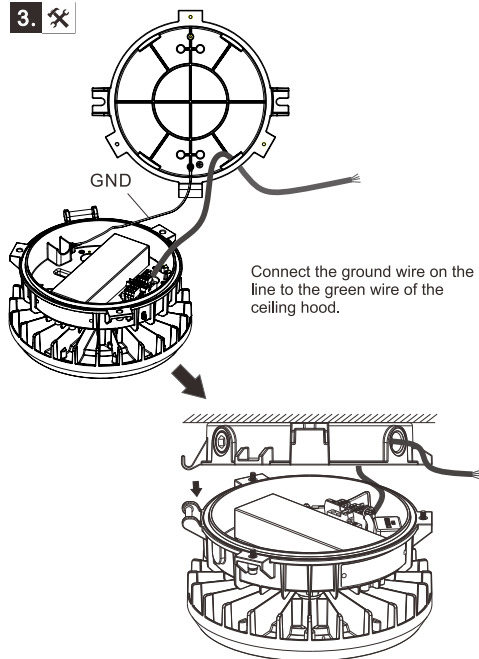
Recommended screw size:
M10(not provided)

8 ✓ M10x35
2PCS
17 N.m



Fixed Ceiling Mounting Accessories

3. ✕

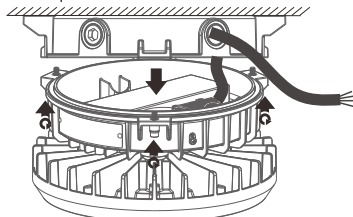


Connect the ground wire on the line to the green wire of the ceiling hood.

4. ✕

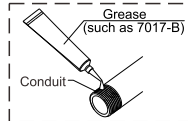
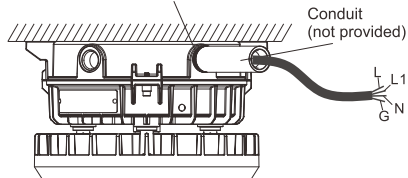
1 Tighten the three screws on the power box

8 ✓ M10x35
2PCS
17 N.m



2

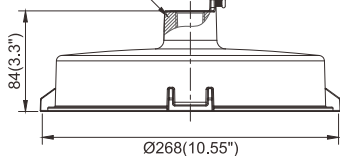
The protection level of cable entry and the luminaire is above IP66



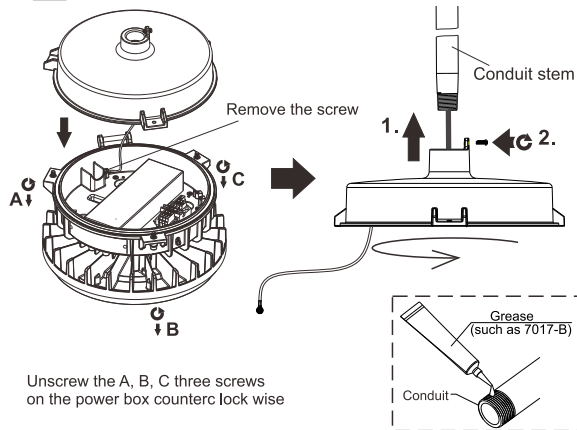
Pendant Mount

Unit: mm/inch

Conduit entry
3/4"NPT OR 1"NPT



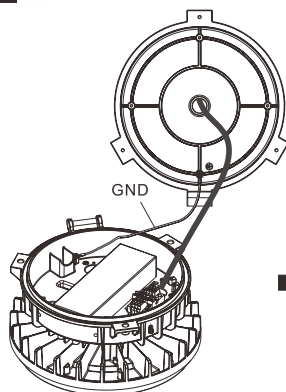
1. ✂



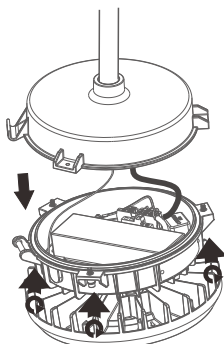
Unscrew the A, B, C three screws
on the power box counterclockwise

2. ✂

5
✓ 4 N.m



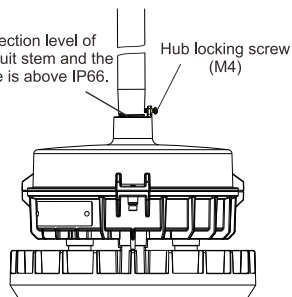
Connect the ground wire on the line
to the green wire of the ceiling hood.



Tighten the three screws
on the power box

3. ✂

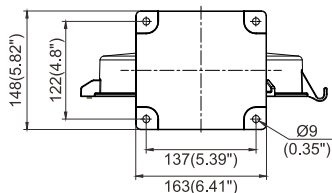
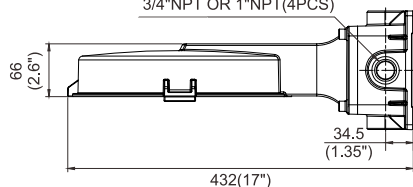
The protection level of
the conduit stem and the
luminaire is above IP66.



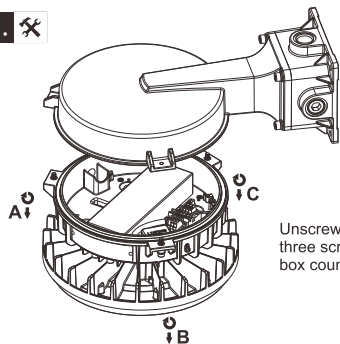
Wall Bracket

Unit: mm/inch

Conduit entry
3/4"NPT OR 1"NPT(4PCS)

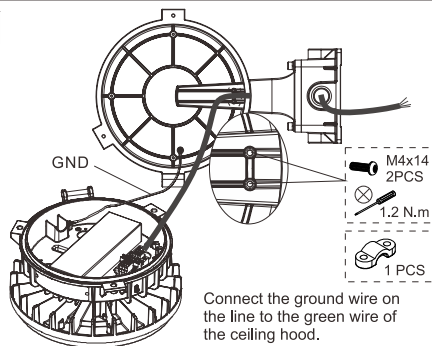


1. ✖



Unscrew the A, B, C three screws on the power box counterlockwise

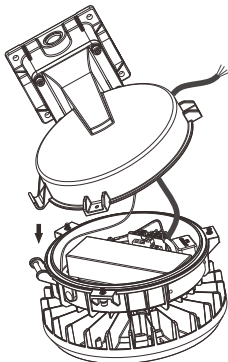
2. ✖



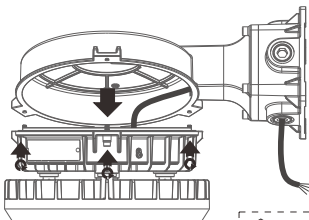
Connect the ground wire on the line to the green wire of the ceiling hood.

3. ✖

1.



2.



Tighten the three screws on the power box



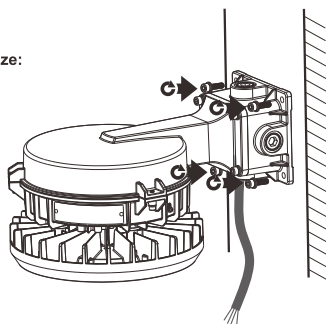
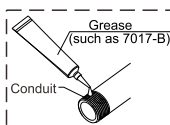
4. ✖

1.

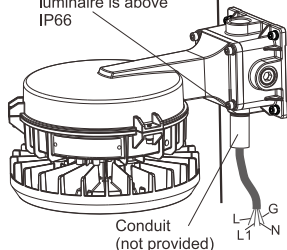
Recommended screw size: M8x30(not provided)



2.



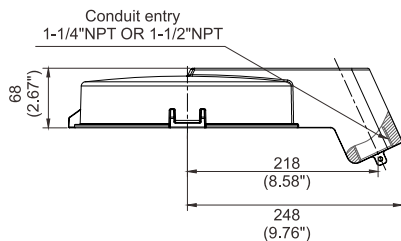
The protection level of conduit and the luminaire is above IP66



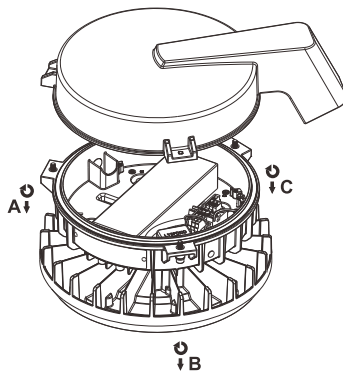
Conduit (not provided)

25° Stanchion Mount

Unit: mm/inch

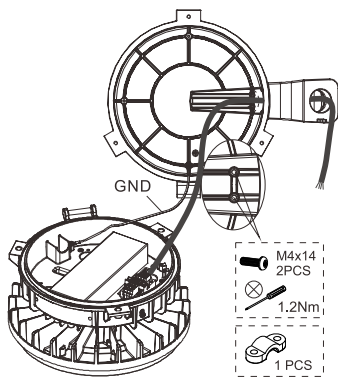


1. ✖



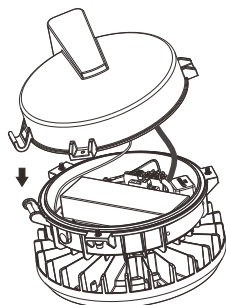
Unscrew the A, B, C three screws on the power box counterlockwise

2. ✂

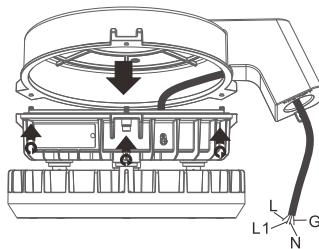


Connect the ground wire on the line to the green wire of the ceiling hood.

3. ✂

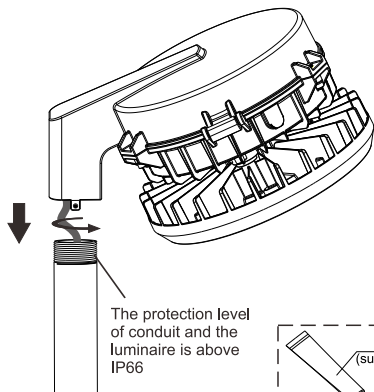


Tighten the three screws on the power box

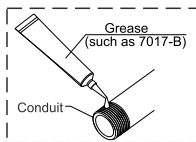


5 4 N.m

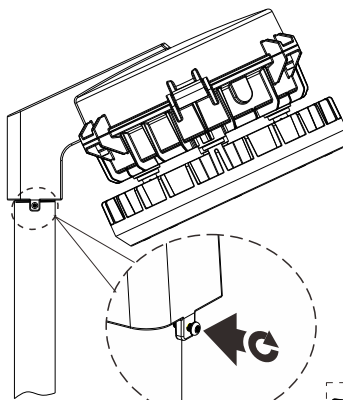
4. ✂



The protection level of conduit and the luminaire is above IP66



5. ✂



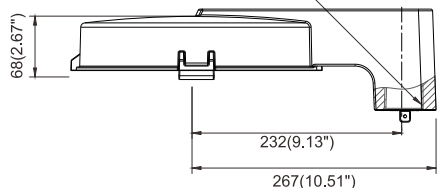
Hub locking screw

M4x12 1PCS 1.2 N.m

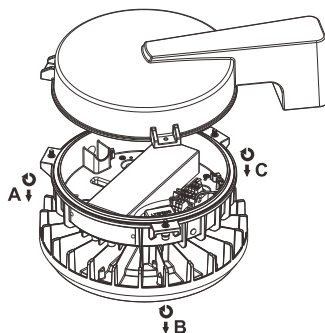
90° Stanchion Mount

Unit: mm/inch

Conduit entry
1-1/4"NPT OR
1-1/2"NPT

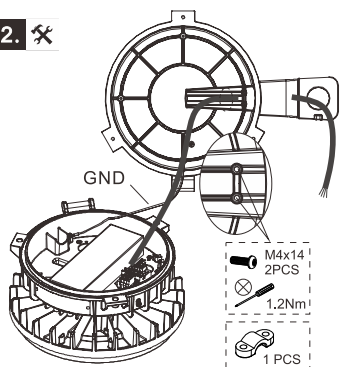


1. ✂



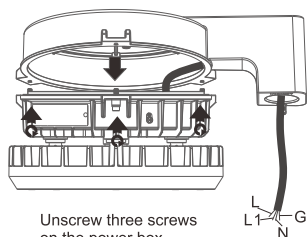
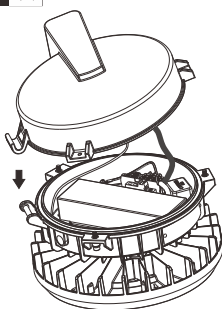
Unscrew the A, B, C three screws on the power box counter clockwise

2. ✖



Connect the ground wire on the line to the green wire of the ceiling hood.

3. ✖

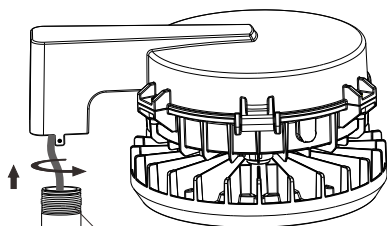


Unscrew three screws on the power box counterclockwise

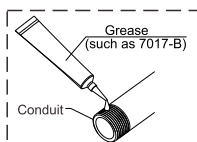
L1
N
G

⑤
✓ 4 N.m

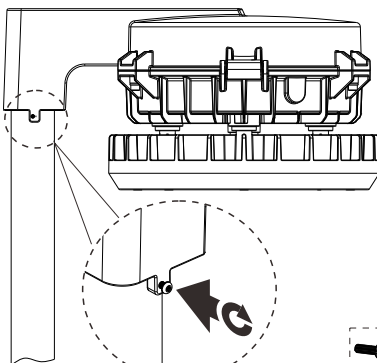
4. ✖



The protection level of conduit and the luminaire is above IP66



5. ✖

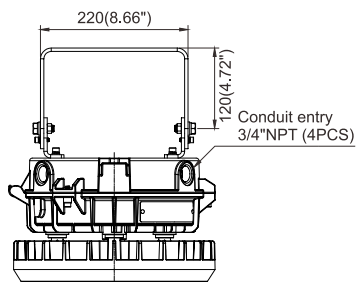
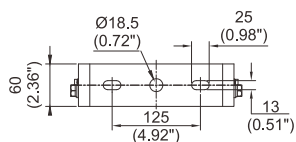


Hub locking screw

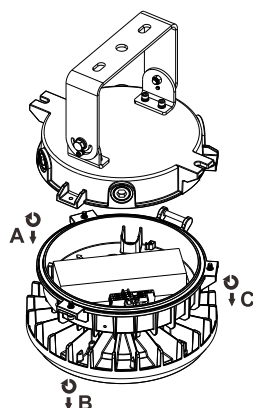
M4x12
1PCS
⑤
✓ 1.2 N.m

Trunnion Mount

Unit: mm/inch



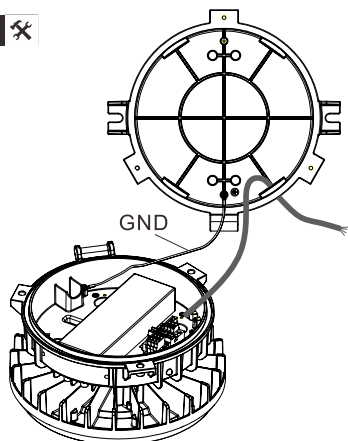
1. ✖



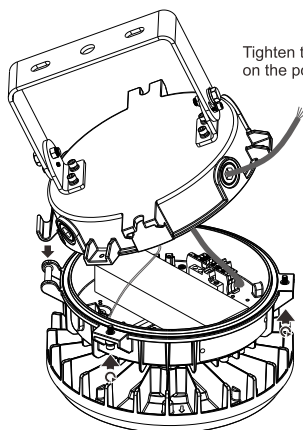
Unscrew the A, B, C three screws on the power box counterclockwise

⑤
✓ 4 N.m

2. ✂

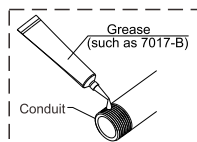
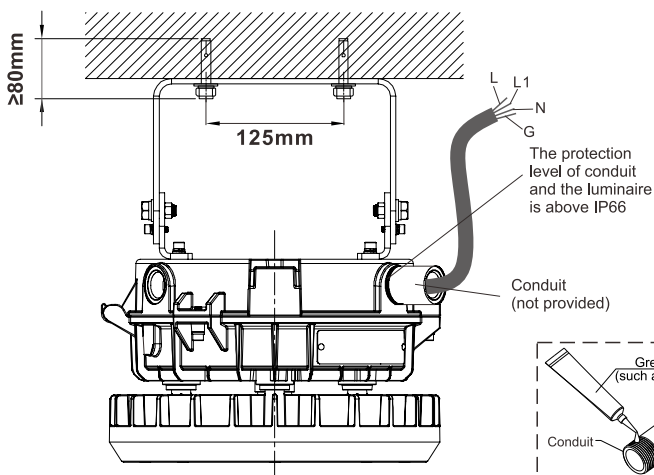


Connect the ground wire on the line to the green wire of the ceiling hood.



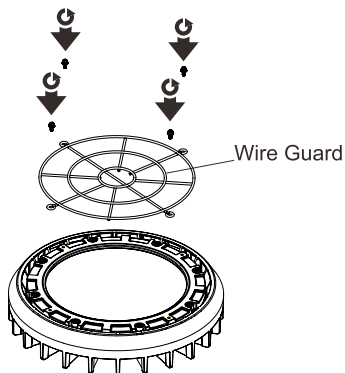
3. ✂

Recommended screw size: M10-M12, 80-120mm Length



Accessory Mount

1. ✂



2. ✂

