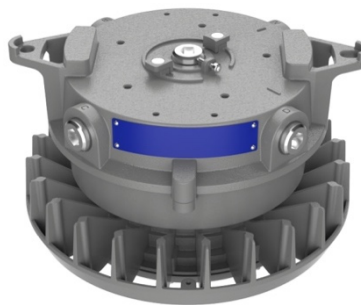


Harsh Environment LED Luminaire

General Safety Information

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, please follow these general precautions.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- DO NOT INSTALL DAMAGED PRODUCT!
- Make sure that the supply voltage is the same as the luminaire voltage.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- All gasket seals must be clean and undamaged.
- To ensure safety, a safety rope can be used to fix the luminaire before installation.



Luminaire for Use in Harsh Locations
The picture is for illustration purposes only.
Your model may vary

WARNING:

RISK OF ELECTRICAL SHOCK

- Turn off electrical power at the fuse or circuit breaker box before wiring the fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements.
- All wiring connections should be capped with UL approved wire connectors.
- Luminaire must be supplied by a wiring system with an equipment grounding conductor.

CAUTION:

RISK OF INJURY

- Always wear gloves and safety glasses when removing luminaire from cartons, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.

CAUTION:

RISK OF FIRE

- Keep combustible and other materials that can burn away from the luminaire and lamp/lens.
- MIN 90°C SUPPLY CONDUCTORS.

Model Round Series is suitable for use in the following harsh (classified) areas as defined by the National Electrical Code (NEC) and Canadian Electrical Code (CEC):

Harsh Locations

Compliances	Environmental Rating
UL 1598	Suitable for wet location
UL 1598A	IP 66
CSA C22.2 No.250.0	NEMA 4X
Refer to the luminaire nameplate for specific classification information, maximum ambient temperature suitability and corresponding operating temperature	

Harsh Environment LED Luminaire

Models:

Round Series

RND2 - 1 - 2 - 3 - 3A - 4 - 5 - 6 - 7 - 8 - 9

1 =Wattage + Lumen

(5L - 35 W, 5,000Lm

6L - 40 W, 6,000Lm

7L - 45 W, 7,000Lm

8L - 55 W, 8,000Lm

9L - 60 W, 9,000Lm

10L - 65 W, 10,000Lm)

2 = Voltage (120-277 Vac*, 347-480 Vac*)

3 = CCT (3K-3000K,4K- 4000K, 5k-5000K, AM-Amber**)

3A = Internal Code (Blank - Standard, HAR-Custom)

4 = Beam (60-60°***,120-120°,T1-Type I**, T3-Type III***,)

5 = Rating (HS- UL1598/A)

6 = Lens (CG - Clear Glass, DG-- Diffuse glass, DLG - Diffuse Drop Lens Glass, CP - Clear PC, DP - Diffuse PC,
DLP - Diffuse Drop Lens PC)

7 = Color (GRY - Grey)

8 = Mounting (PND - Pendant****, YKE - Yoke*****)

9 = Production Code (Blank - Standard, BAA - Buy American Act)

10=CRI (BLANK – 80 CRI Standard, CRI90 – 90 CRI*****)

* 120-277 only available for 35W,45W,55W,65W. 347-480 only available for 40W, 60W

** Only available with beam120°

*** Only available with Clear Glass & Clear PC

**** RND-YOKE Pre-installed as standard

***** No accessory required for Pendant & Ceiling Mount

***** CRI 90 option – expect longer lead time.

Harsh Environment LED Luminaire

Round Series (JUNCTION BOX MODELS)

RND2 - 1 - 2 - 3 - 3A - 4 - 5 - 6 - 7 - 8 - 9

1 =Wattage + Lumen

(5L - 35 W, 5,000Lm

7L - 45 W, 7,000Lm

8L - 55 W, 8,000Lm

10L - 65 W, 10,000Lm)

2 = Voltage (120-277 Vac*, 208-277 Vac, 120 Vac)

3 = CCT (3K-3000K,4K- 4000K, 5k-5000K, AM-Amber**)

3A = Internal Code (Blank - Standard, HAR-Custom)

4 = Beam (60-60°***,120-120°,T1-Type I ***, T3-Type III ***,)

5 = Rating (HS- UL1598/A)

6 = Lens (CG - Clear Glass, DG=Diffuse glass, DLG - Diffuse Drop Lens Glass, CP - Clear PC, DP - Diffuse PC, DLP - Diffuse Drop Lens PC)

7 =Color (GRY=Grey)

8 = Mounting

(J1 - NPT-threaded Slip-Fit Junction box,

J2 - NPT-threaded Slip-Fit Junction box + Sensor(120V),

J3 - NPT-threaded Slip-Fit Junction box + Sensor(208-277V),

J4 - Non-threaded Slip-Fit Junction box,

J5 - Non-threaded Slip-Fit Junction box + Sensor(120V),

J6 - Non-threaded Slip-Fit Junction box + Sensor(208-277V).)

9 = Production Code (Blank=Standard, BAA=Buy American Act)

10=CRI (BLANK – 80 CRI Standard, CRI90 – 90 CRI****)

* 120-277 V AC only for J1 and J4, 120V AC only for J2 and J5; 208-277V AC only for J3 and J6.

** Only available with beam120°

*** Only available with Clear Glass & Clear PC

**** CRI 90 option – expect longer lead time.

Operating characteristic:

- Rated Voltage: 120-277 Vac or 347-480 Vac, 50/60Hz
- Ambient Temperature Range: -40°F ~ 140°F (-40°C ~ 60°C)

Harsh Environment LED Luminaire

Wiring

CAUTION:

Turn off electrical power at fuse or circuit breaker box before wiring luminaire to the power supply.

All units must be individually connected to the AC supply.

Black = Line

White = Neutral

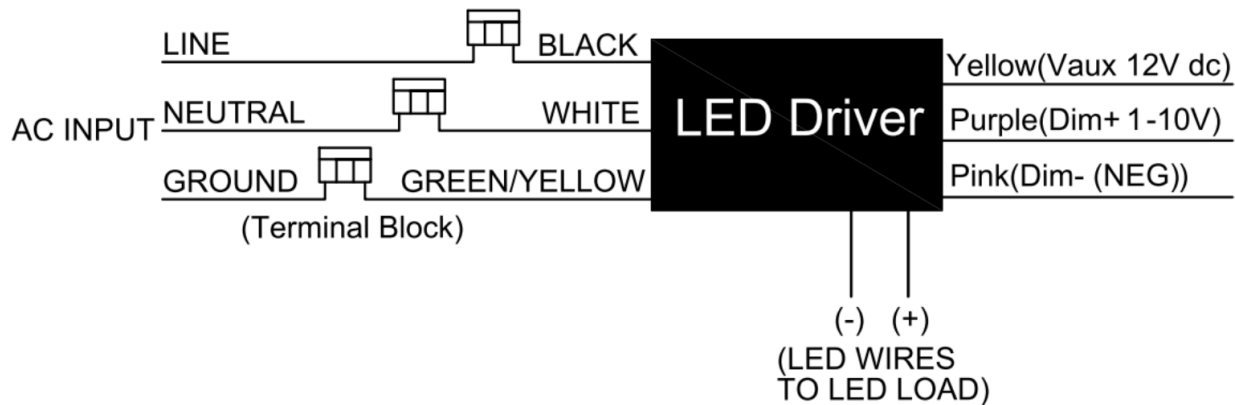
Green = Ground

Dimming control wire*: Yellow = Vaux 12V dc

Purple = Dim+ 1-10V input

Pink = Dim-(NEG)

*Only available for RND2-35-120-277, RND2-45-120-277, RND2-55-120-277, RND2-65-120-277, RND2-40-347-480



Installation

Electrical Connection:

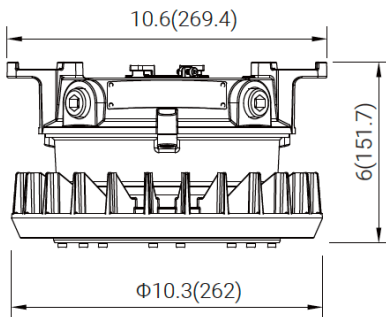
1. Connect field supply wires to luminaire wire leads (or Wago connectors).
2. Wire per wiring diagram and per required electrical codes.
3. Close the tank cover, making sure that all wires are safely inside the tank.
4. Check the tightness of the conduit and Tank Cover.
5. Turn the power on.

Note: All installations must refer to Red Sky Lighting " NPT Assembly Instructions" to prevent water leakage.

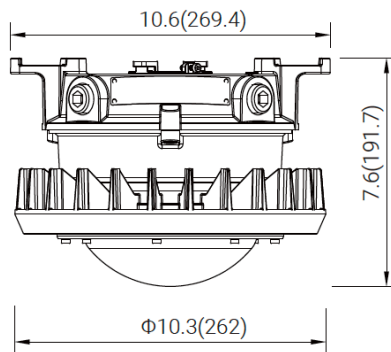
Harsh Environment LED Luminaire

Product Dimensions

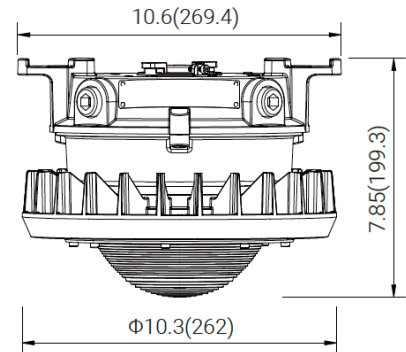
Unit: in (mm)



Flat glass

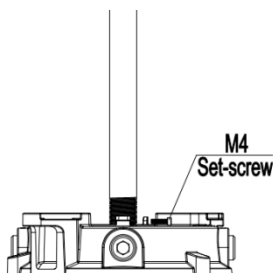


Drop Lens Glass

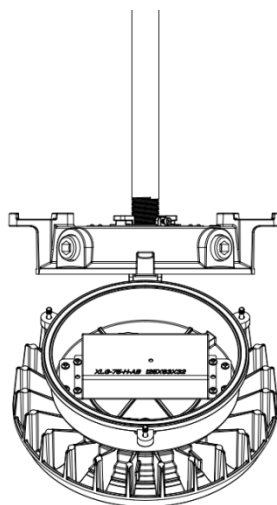


Drop Lens PC

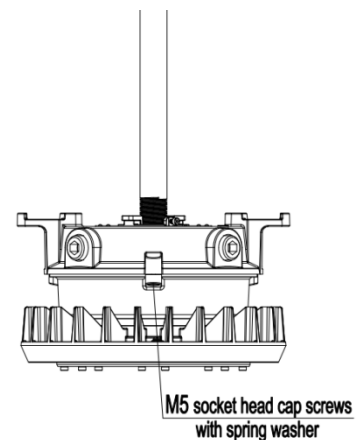
1. Pendant:



step1



step2



step3

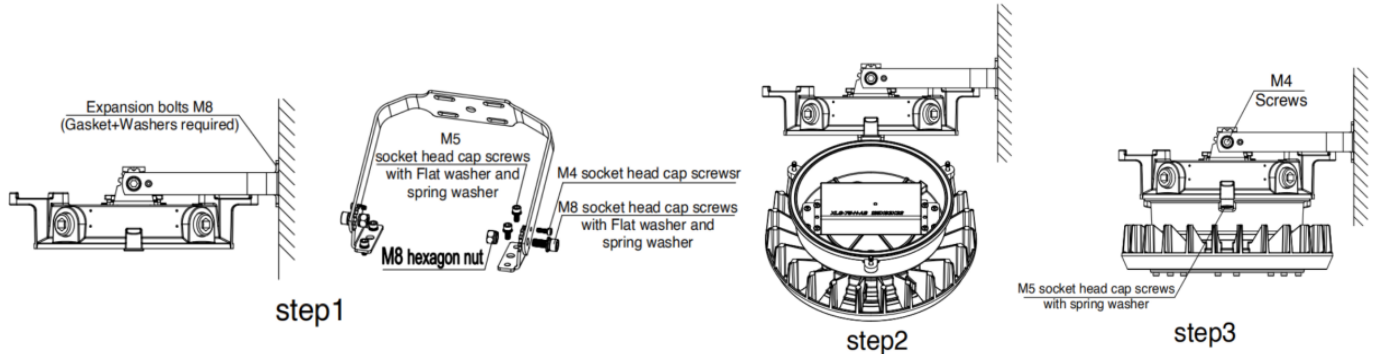
Step 1. Loosen the three (M5) hexagon socket head cap screws of the tank cover with torque value (4 N-m). Thread the tank cover onto the NPT 3/4inch conduit. Tighten the M4 set screw.

Step 2. Hang the tank onto the hinge hook of the tank cover and connect field supply wires to luminaire wire leads (or Wago connectors) according to the wiring diagram.

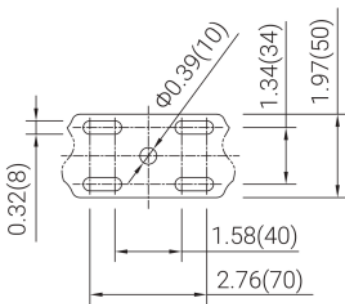
Step 3. Close the tank cover, making sure that all wires are safely inside the tank. Tighten three captive closing screws (M5) to (4 N-m).

Harsh Environment LED Luminaire

2. Yoke:



Unit: in (mm)



Bracket mounted hole

Step 1. Loosen the three (M5) hexagon socket head cap screws of the tank cover with torque value (4 N-m).

Secure the bracket and Tank Cover with 4 (M8) expansion bolts (not provided) directly to a structural member; Adjust the angle (6x30°) of the bracket and fix the position with M4 screws.

Step 2. Hang the fixture onto the hinge hook of the tank cover. Connect field supply wires to luminaire wire leads (or Wago connectors). Wire per wiring diagram.

Step 3. Close the tank cover, making sure that all wires are safely inside the tank. Tighten three captive closing screws (M5) to (4 N-m).

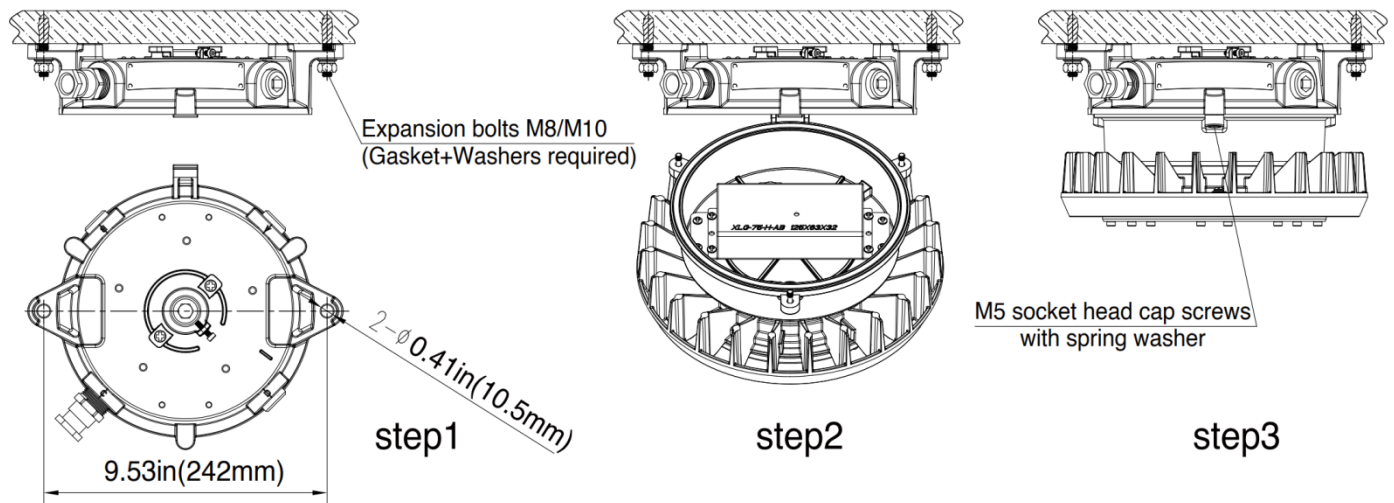
3. Ceiling:

Step 1. Loosen the 3 (M5) hexagon socket head cap screws of the tank cover with 4 N-m torque value. Mark and drill desired location on the mounting surface. Secure the tank cover with 2 (M8 / M10) expansion bolts (not provided) directly to a structural member.

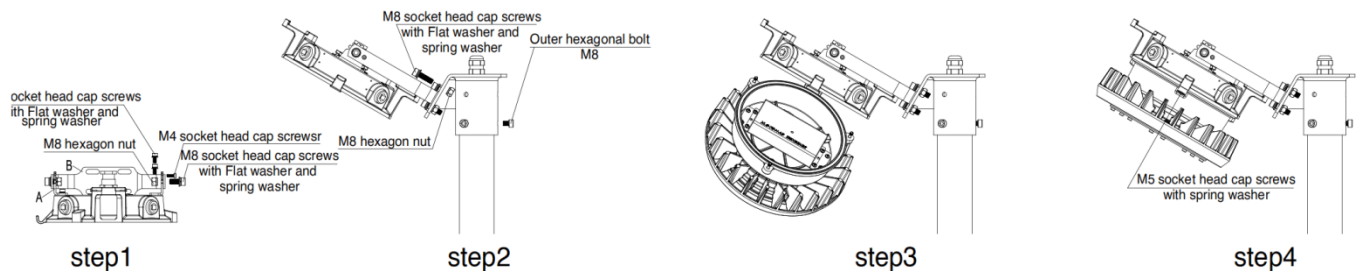
Step 2. Thread onto an NPT 3/4inch conduit. Hang the tank onto the hinge hook of the tank cover. Connect field supply wires to luminaire wire leads (or Wago connectors) according to the wiring diagram.

Step 3. Close the tank cover, making sure that all wires are safely inside the tank. Tighten three captive closing screws (M5) to (4 N-m).

Harsh Environment LED Luminaire



4. Pole (Pole Type Stanchion):



Step 1. Loosen the three (M5) hexagon socket head cap screws of the tank cover with 4 N-m torque value. Mount the U-bracket part A and B combination on the tank cover with M5 screws and M8 screws & nuts, adjust the angle of the bracket (6x30°) and lock it with M4 screws.

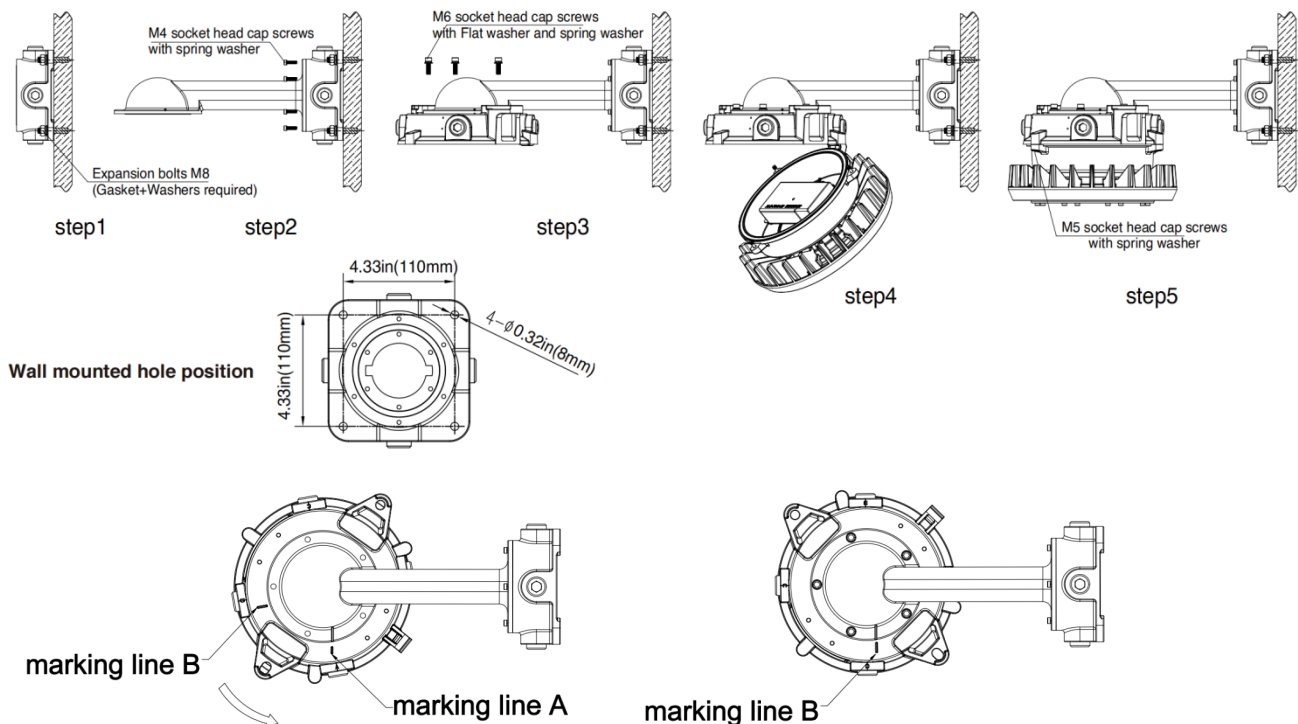
Step 2. Attach the bracket with Tank Cover to the pole mount bracket with M8 screws & nuts, then the pole mount bracket is snapped into the upper end of the strut, which is NPT 2" (2.375" pole OD) , and locked with M8 bolts.

Step 3. Hang the tank onto the hinge hook of the tank cover. Connect field supply wires to luminaire wire leads (or Wago connectors) according to the wiring diagram.

Step 4. Close the tank cover, making sure that all wires are safely inside the tank. Tighten three captive closing screws (M5) to (4 N-m).

Harsh Environment LED Luminaire

5. Wall 90°/Wall 25°:



Step 1. Mark and drill desired location on the mounting surface, Secure the junction box (provided) with 4 (M8) expansion bolts (not provided) directly to a structural member; thread onto an NPT 3/4 inch conduit.

Step 2. Pull field wiring into the wall mount adapter, with the cable exposed to the appropriate length of the adapter. Secure the adapter with 6 (M4) screws (provided) directly to the junction box. Make sure the gasket of the junction box is properly inserted into the slot.

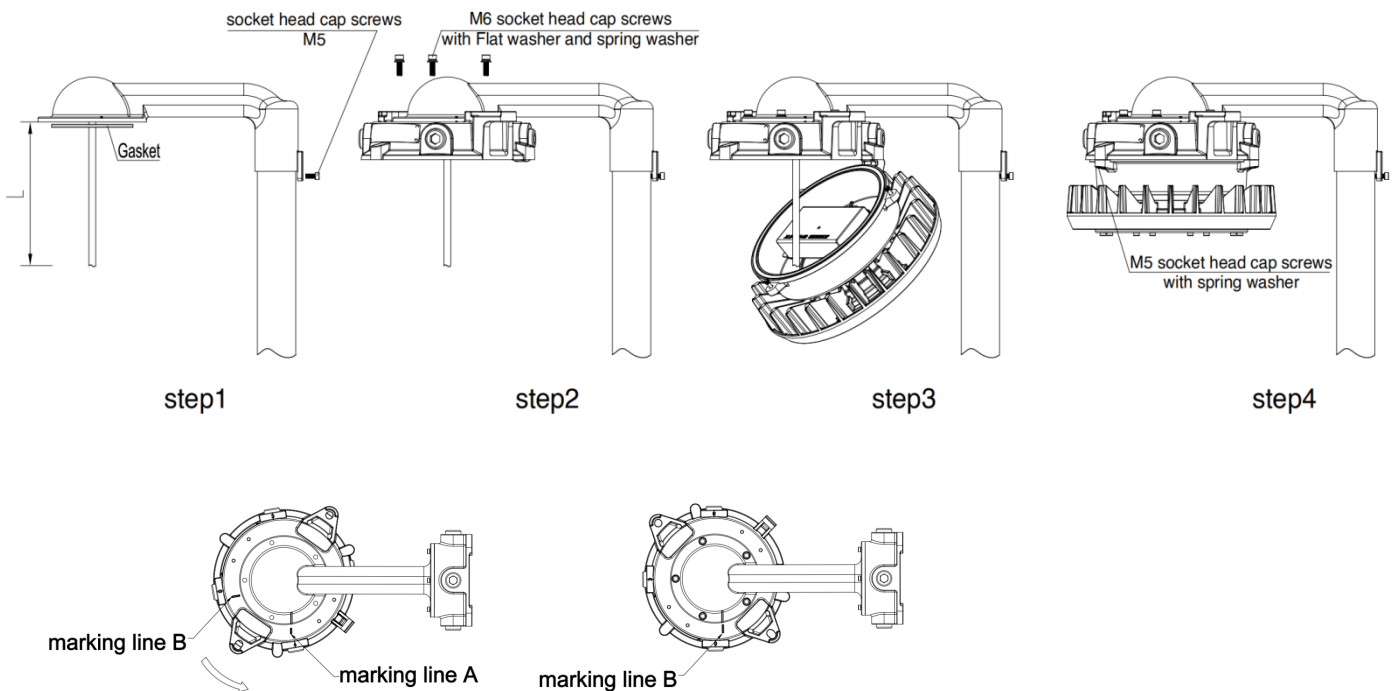
Step 3. Loosen the 3 (M5) hexagon socket head cap screws of the tank cover with torque value (4 N-m). Use the 5 (M6) hexagon socket screws with torque value (5 N-m.) to fix the tank cover onto the adapter. Make sure the gasket of the adapter is properly inserted into the slot. When assembling the tank cover and adapter, align the alignment marks sequentially: first align Mark A at the initial position, then rotate and align Mark B.

Step 4. Hang the tank onto the hinge hook of the tank cover. Connect field supply wires to luminaire wire leads (or Wago connectors). Wire per the wiring diagram.

Step 5. Close the tank cover, making sure that all wires are safe inside the tank. Tighten three captive closing screws (M5) to (4 N-m).

Harsh Environment LED Luminaire

6. Stanchion 90° / Stanchion 25°:



Step 1. Make sure the gasket of the adapter is properly inserted into the slot. Connect the adapter to the NPT 1-1/2" or NPT 1-1/4" conduit with the cable exposed to the appropriate length of the adapter. Determine the proper orientation, and tighten the (M5) set screw.

Step 2. Loosen the 3 (M5) hexagon socket head cap screws of the tank cover with torque value (4 N-m). Use the 5 (M6) hexagon socket screws with torque value (5 N-m.) to fix the tank cover onto the adapter. When assembling the tank cover and adapter, align the alignment marks sequentially: first align Mark A at the initial position, then rotate and align Mark B.

Step 3. Hang the tank onto the hinge hook of the tank cover. Connect field supply wires to luminaire wire leads (or Wago connectors) according to the wiring diagram.

Step 4. Close the tank cover, making sure that all wires are safe inside the tank. Tighten three captive closing screws (M5) to (4 N-m).

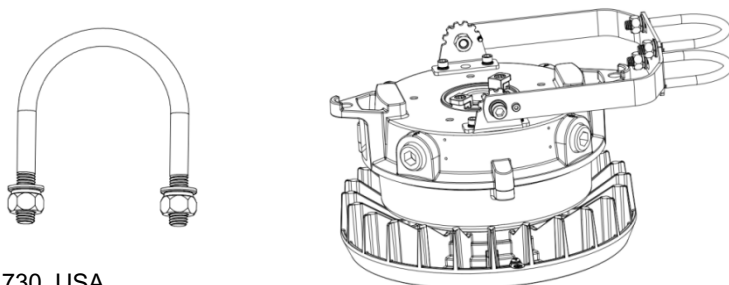
7. Pole (kit sold separately)

Step 1. Check diameter of the pipe to make sure you are using the correct size clamp.

Step 2. Place the Fixture bracket against the installed pipes.

Step 3. Place the clamp (U-bolts) on the pipe and fit it through the openings in the bracket.

Step 4. Adjust fixture to the desired angle. Insert and tighten the supplied locking nuts and washers to secure the clamp to the pipe.



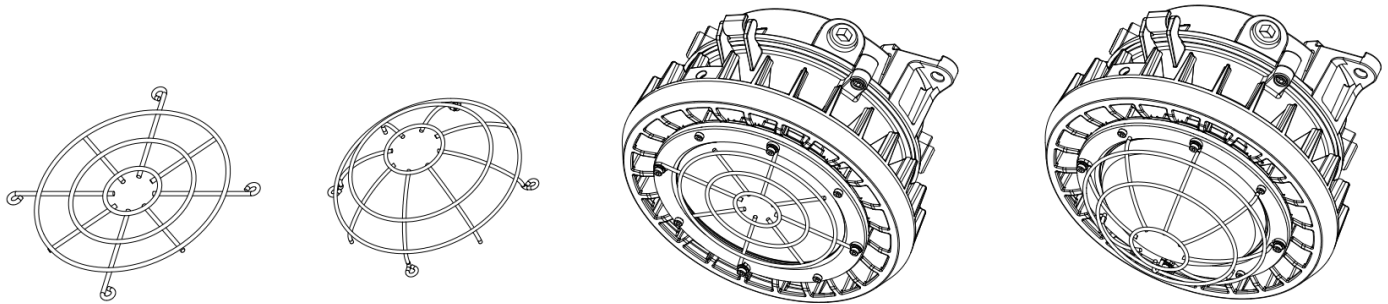
Harsh Environment LED Luminaire

Wire guard installation (kit sold separately)

Step 1. Loosen the 4 (M4) hexagon socket head cap screws of the body cover with torque value 5 N-m.

Step 2. Locate and center the guard to the outside of the body cover with the (4x) clips aligned with the holes of the screws.

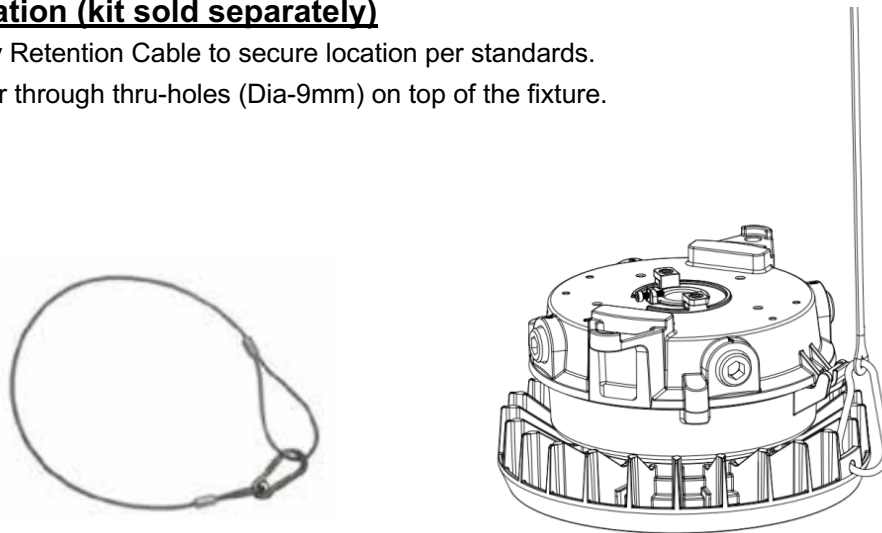
Step 3. Install and tighten the 4 (M4) screws through the mounting clips and into the body cover screw holes as shown in torquing to (3 N-m).



Safety cable installation (kit sold separately)

Step 1. Install Secondary Retention Cable to secure location per standards.

Step 2. Secure Carabiner through thru-holes (Dia-9mm) on top of the fixture.

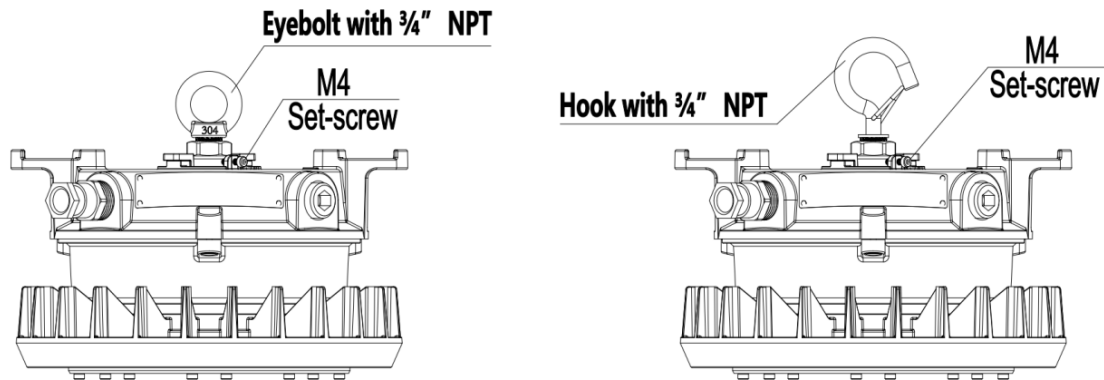


Harsh Environment LED Luminaire

Hanging Mount: Eyebolt or Hook with 3/4" NPT installation (kit sold separately)

Step 1. Screw the eyebolt or hook into the NPT3/4" interface on the upper of the tank cover, and total thread engagement should be ≥ 5 turns.

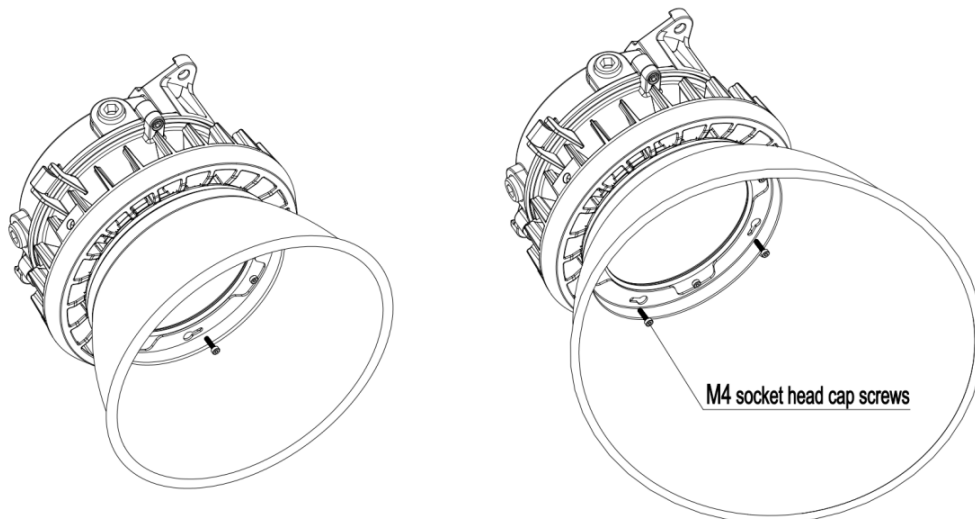
Step 2. Tighten the (M4) set screw. (torque:3 N.m.)



Visor (GLARE SHIELD),90 or 25 Deg installation (kit sold separately)

Step 1. Remove the four M4 socket head cap screws on the body cover every other one. (torque:2 N.m.)

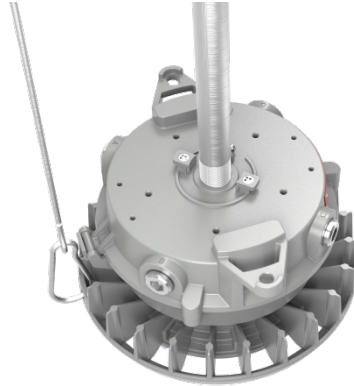
Step 2. Install the original 4 M4 socket head cap screws according to the position shown in the picture to fix the glare shield. (torque:2 N.m.)



Harsh Environment LED Luminaire

INSTALLATION CHECKLIST

1. Verify if the steel pipe or cord grip are installed to at least five (5) full threads into the conduit entries of the fixture.



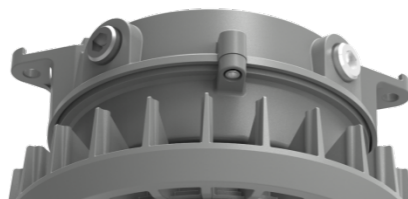
2. Verify field supply wires to luminaire (Wago connectors) per wiring diagrams and all electrical connections are tightened.



3. Verify all Wires are safely and neatly inside Tank , Gasket of the housing is placed into the slot nicely and evenly.



4. Verify the three M5 captive closing screw is tightened to (4 N-m).



5. Follow Red Sky Lighting " NPT Assembly Instructions" to prevent water leakage.

Harsh Environment LED Luminaire

Pole and Junction box

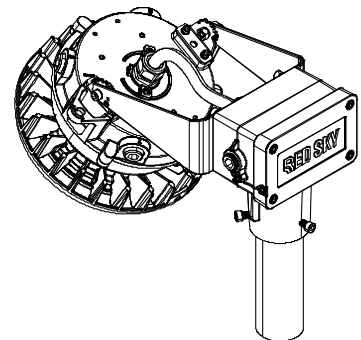
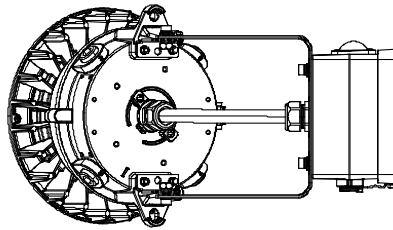
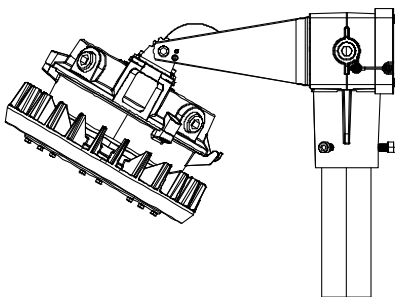
Step 1. Using provided M8 hexagon screws fix the junction box to the yoke (M8X25, Torque 8 N-m) and yoke to the luminaire (torque 5 N-m, adjustment angle 18X10°).

Step 2. Concentric and fix the luminaire with junction box on the ø60 or ø48 pole with the provided hexagon M8 screw.

Step 3. Open the junction box cover and PC transparent cover, connect the luminaire wire to the junction box and installing the sensor, wiring according to the customized wiring diagram in the junction box.

Step 4. Check the correct after the wiring operation in the junction box is finished. install the junction box cover with the provided hexagon socket screw M6 (Torque 5 N-m) and install the PC transparent cover with the provided hexagon socket screw M4 (torque 2 N-m).

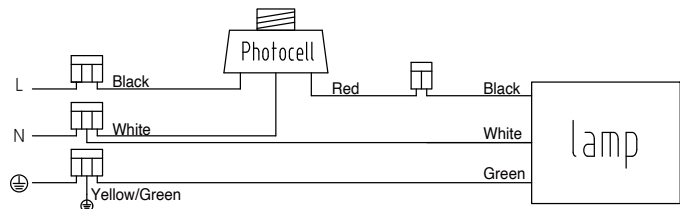
Note: All installation must refer to Red Sky Lighting " NPT Assembly Instructions" to prevent water leakage.



Sensor Wiring

CAUTION: Turn off electrical power at fuse or circuit breaker box before wiring luminaire to the power supply.

Connecting panels to AC source supply: All units must be individually connected to the AC supply.

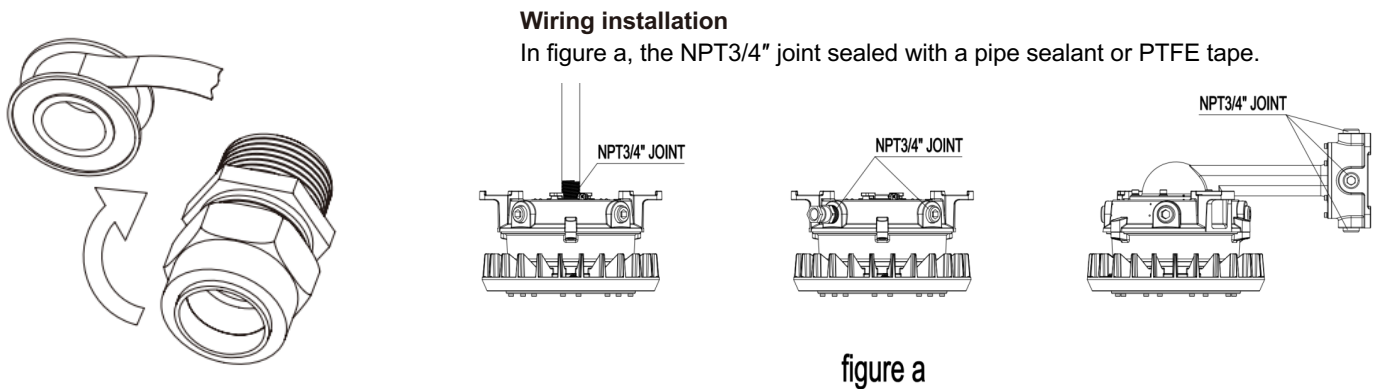


Harsh Environment LED Luminaire

NPT Assembly Instructions:

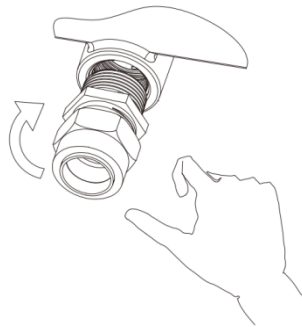
STEP 1: Inspect the port and fitting to ensure that both are free of contaminants and excessive burrs and nicks.

STEP 2: Wrap Teflon tape (width of 12.7mm and thickness of 0.1mm) 2.5 - 3 turns in a clockwise direction, viewed from the pipe end, leaving the rest two threads uncovered.

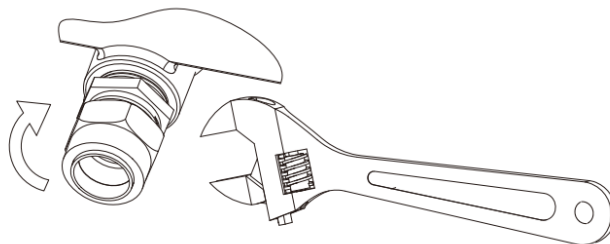


CAUTION: Teflon tape and some pipe sealants are destructive to hydraulic components. Always use extreme caution and follow manufacturer's recommendations for proper application of any sealant to prevent contamination.

STEP 3: Screw the finger tight into the port.



STEP 4: Wrench tighten the fitting to the correct Turns Past Finger Tight position. A properly assembled fittings total thread engagement should be ≥ 5 turns.



CAUTION: Never back off an installed pipe fitting to achieve proper alignment. Loosening installed pipe fittings will corrupt the seal and contribute to leakage and failure.

(*Applicable standard: ASME B1.20.1-2013)

Harsh Environment LED Luminaire

Servicing

- 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 should be made at least once a year. Frequency of use and environment should determine this.
- The external glass should be cleaned periodically to ensure continued luminaire performance. Clean the glass 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.
- Mechanically check to make sure all parts are properly assembled.
- Electrically check to make sure that all connections are clean and tight.

Warranty

- We warrant that each of our LED lighting luminaires (the “Product(s)”) that are purchased while this Warranty is in effect will be free from defects in materials and workmanship for the period of time specified in the table below (the “Warranty Period”). The Warranty Period runs from the date of the original purchase from its authorized distributor/dealer.
- We will repair, or at our option, replace the defective product (exterior finish, housing and heat sinks, lens, LED engine, power supply) during the standard warranty period. This warranty applies only to the repair or replacement of the product and only when the product is properly handled, installed and maintained according to our instructions.
- This warranty excludes defects resulting from improper installation, acts of God, fire, vandalism or civil disturbances, power surges or improper power supply, and corrosive environment installations.
- This warranty does not cover equipment, systems or components from other manufacturers that the Purchaser uses in conjunction with the Product. Any repair, alteration or modification of the Product, including replacement of Product components with components of other manufacturers will void the warranty in its entirety.

Product	Which Model Nos. are Covered by this Warranty	Warranty Period
Round Harsh Series Environment Led Luminaires	RND2-XX-XXX	LEDs: 10 years Driver: 7 years

Harsh Environment LED Luminaire

Limitation of Liability

THE FOREGOING WARRANTY IS EXCLUSIVE, AND IS THE SOLE REMEDY FOR ANY AND ALL CLAIMS, WHETHER IN CONTRACT, IN TORT OR OTHERWISE ARISING FROM THE FAILURE OF PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND, IN ANY EVENT, SHALL BE LIMITED TO THE WARRANTY PERIOD SPECIFIED ABOVE. THE LIABILITY OF SHALL BE LIMITED TO THE TERMS OF THE EXPRESS WARRANTY SET FORTH HEREIN. IN NO EVENT WILL BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM LOSS OF USE, PROFITS, BUSINESS OR GOODWILL, LABOR COSTS, REMOVAL OR INSTALLATION COSTS, DECREASE IN THE LIGHT OUTPUT OF THE LAMP, AND/OR DETERIORATION IN THE LAMP'S PERFORMANCE, WHETHER OR NOT HAS BEEN ADVISED OF THE POSSIBILITY THEREOF. UNDER NO CIRCUMSTANCES SHALL'S ENTIRE LIABILITY FOR A DEFECTIVE PRODUCT EXCEED THE PURCHASE PRICE OF THAT PRODUCT. WARRANTY SERVICES PROVIDED UNDER THESE TERMS AND CONDITIONS DO NOT ENSURE THE UNINTERRUPTED OPERATION OF PRODUCTS; SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY ANY DELAYS INVOLVING WARRANTY SERVICE.

This Limited Warranty gives you specific legal rights and you may also have other rights that may vary from state to state. Because some states or jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages, this limitation may not apply to you.