

## The XR Series Installation Manual

### Zone 21 Certification



LC21CA19098-1X



## APPLICATION

XR luminaires are designed for use indoors, outdoors, wet locations, areas containing moisture, dirt, corrosion, vibration and rough usage.

Certified to: Conforms to: CSA C22.2 NO. 60079-0, CSA-C22.2 NO. 60079-31, CSA-C22.2 No 250.0 and CSA-C22.2 No. 250.13

Hazardous Location Certification: Ex tb IIIC Db T92°C -50°C <Ta< +50°C  
Zone 21

Housing: Copper-free Cast Aluminium with Polycarbonate lens

Input Voltage: Based on luminaire suffix in table below:  
Suffix - AC: 120-277 VAC | Suffix - HV: 347-480 VAC

Electrical Ratings:

LUMINANCE	INPUT VOLTAGE	RATED WATTAGE [Watts]	RATED VOLTAGE [Volts]	FREQUENCY [Hz]
XR8	AC	Flood: 47 Optic: 60	120-277	50/60
	HV	Flood: 49 Optic: 64	347-480	50/60
XR10	AC	Flood: 55 Optic: 75	120-277	50/60
	HV	Flood: 58 Optic: 77	347-480	50/60
XR15	AC	Flood: 84 Optic: 103	120-277	50/60
	HV	Flood: 91 Optic: 107	347-480	50/60
XR20	AC	Flood: 141 Optic: 156	120-277	50/60
	HV	Flood: 148 Optic: 160	347-480	50/60

Connections: 3 x 3/4" NPT Conduit | Black: Line | White: Neutral/Line 2 | Green: Ground  
*Optional: Violet: 0-10V Dimming (+) | Grey: 0-10V Dimming (-)*  
 For connections use wire rated to a minimum of 90°C. Class 1 Wiring only.  
 All supply field wiring must be rated 300V minimum for luminaires with suffix AC, 600V minimum for luminaires with suffix HV.

Ambient Temperature Range: All models -50°C to +50°C

Ingress Protection: IP66 | Suitable For Wet Locations.

**WARNING**

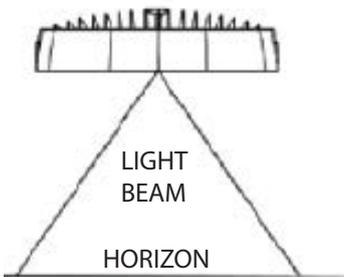
To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

**WARNING**

To reduce the risk of electric shock, disconnect the luminaire from the supply circuit before opening for installation and servicing. Keep tightly closed when in operation.

**WARNING** POTENTIAL ELECTROSTATIC CHARGING HAZARD

Avoid electrostatic discharge :  
• Clean exterior lens surface with damp cloth only



**WARNING:**  
The XR head must not face upwards any degree beyond the horizontal position for Zone 21, Zone 22 hazardous location installations.

**WARNING**  
ATTENTION:  
Le luminaire XR ne doit pas être orienté vers le haut à un degré quelconque au-delà de la position horizontale pour les installations en zones dangereuses de Zone 21, Zone 22.

## SURFACE/CEILING MOUNT INSTALLATION

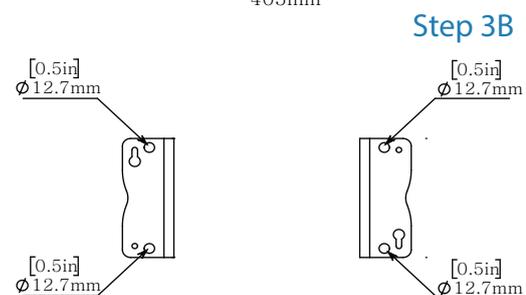
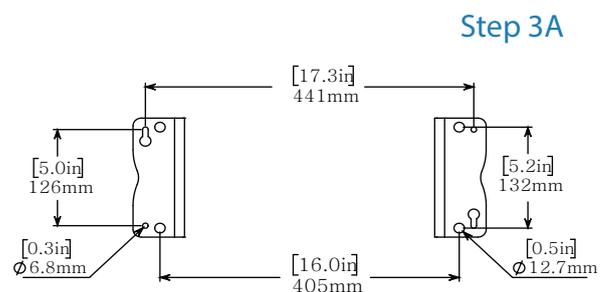
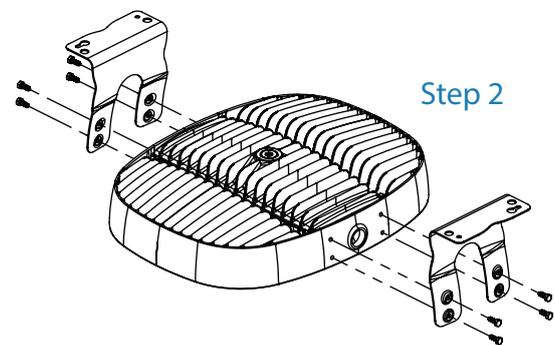
Refer to alternate instructions if using Conduit, Hook, Wall, Pole or Yoke Mount

**STEP 1.**  
Inspect shipping package and contents to ensure no damage has occurred during shipping.

**STEP 2.**  
Install Surface/Suspension Mount Brackets using the 8x M6 hex cap bracket mounting screws. See diagram for orientation of brackets. Torque M6 bolts to 5 Nm (45 in-lbs).

**STEP 3.**  
A) For surface mounting configuration, mount luminaire in desired locations using 4x 1/4-20 OR 4x M6 fasteners and washers (Not provided). One mounting hole on each bracket is keyed to allow partial pre-installation of two fasteners for ease of install.

B) For ceiling mounting configurations, connect 4x anchors to the 12.7mm (0.5") holes. Suspension hardware (Not provided) must be rated for a minimum of 180 lbs.



**STEP 4.**

Open XR Wiring Cover and allow cover to hang via retention strap.

**Note:**

*Screws are captive fasteners and will remain attached to the cover for ease of reinstall and to prevent loss of fasteners.*

**STEP 5.**

Make wiring connections from branch circuit conductors to factory provided lead wires using one of the 3/4" NPT threaded entries. Follow wiring method requirements of the Canadian Electrical Code for the specific hazardous location of the installation.

For 0-10V Analog Dimming Control. Ensure dimming control is certified and suitable for the classification of the area of installation. Connect Violet (+) and Gray (-), driver lead wires, to 0-10VDC control wiring.

- LED Drivers will source a combined maximum of 200 $\mu$ A for control needs
- 0-10V Controller must sink current from LED driver 0-10V control connections

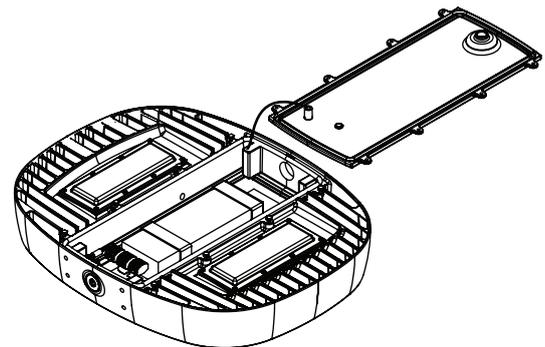
**NOTE:**

*To aid in assembly and provide protection against ingress, use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.*

*Un-used conduit opening must be plugged to maintain the integrity of the enclosure.*

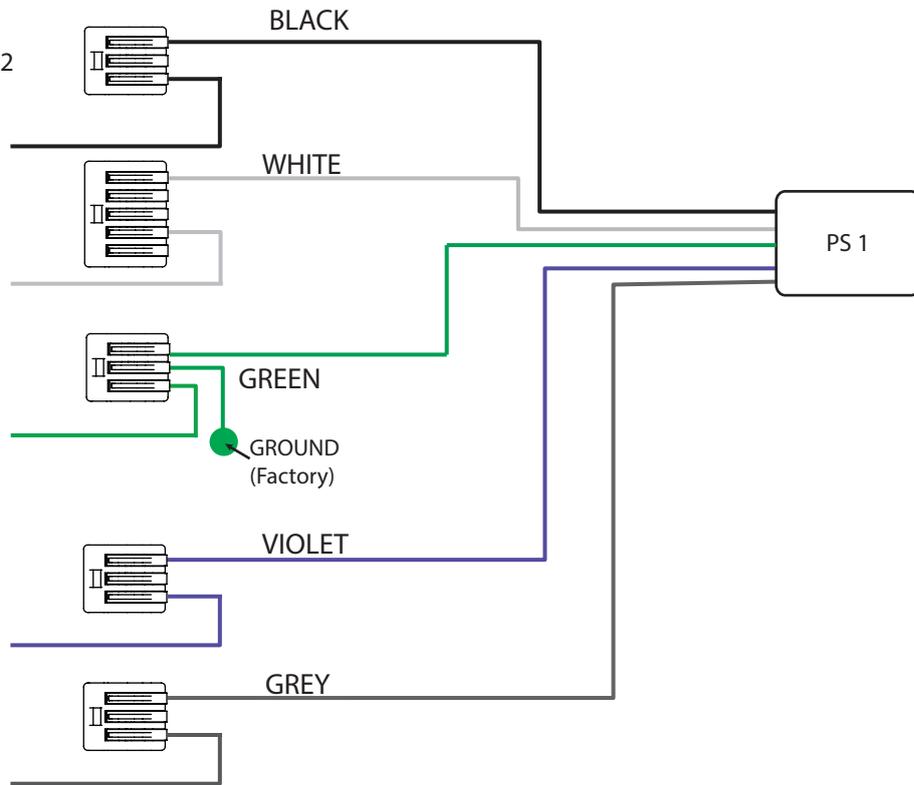
**STEP 6.**

Close XR cover. Ensure the retention cable is not pinched between XR Head and the XR cover. Tighten cover bolts to 1.7 N-m (15 in-lbs).

**Step 5**

**WIRING DIAGRAM**

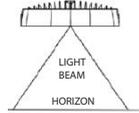
- BLACK - LINE
- WHITE - NEUTRAL/LINE 2
- GREEN - GROUND
- VIOLET - DIM (+)
- GREY - DIM (-)



\*Any additional wiring not shown has been capped by the factory and is not to be used.

## XR-PM – POLE MOUNT INSTALLATION

*Refer to alternate instructions if using Conduit, Hook, Wall or Yoke Mount*



**WARNING:**  
 The XR head must not face upwards any degree beyond the horizontal position for ZONE 21, ZONE 22 hazardous location installations.



**ATTENTION:**  
 Le luminaire XR ne doit pas être orienté vers le haut à un degré quelconque au-delà de la position horizontale pour les installations en zones dangereuses de ZONE 21, ZONE 22.

This XR-PM kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-PM	QTY	PART NAME
	1	POLE MOUNT
	1	POLE MOUNT GASKET
	4	M6 X 25mm HEX HEAD CAP SCREW
	4	M6 FLAT WASHER
	1	M6 X 16mm HEX HEAD CAP SCREW
	1	3/4 NPT THREADED SMOOTH BORE BUSHING



## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

Install the provided plastic 3/4" bushing into side 3/4" NPT entry.

### STEP 3.

Install Pole Mount and gasket with adhesive side applied to mount using included M6 bolts and washers.  
 Torque to 5 Nm (45 in-lbs)

### STEP 4.

Thread luminaire assembly onto 1.5" NPT pole.

#### NOTE:

*To aid in assembly and provide protection against ingress, use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.*

*Un-used conduit opening must be plugged to maintain the integrity of the enclosure.*

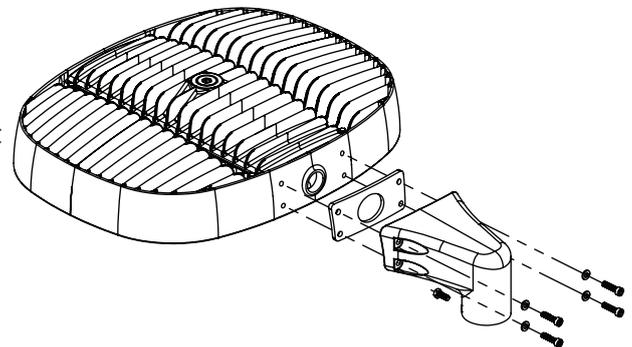
### STEP 5.

Insert and tension M6 set screw to pole to lock rotation.

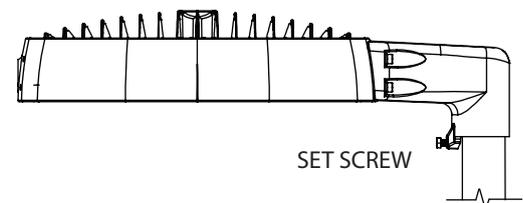
### STEP 6.

Resume installation instructions provided with luminaire (STEP 4 on PAGE 3).

Step 3



Step 5



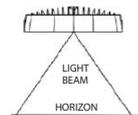
## XR-WM – WALL MOUNT INSTALLATION

Refer to alternate instructions if using Conduit, Hook, Pole or Yoke Mount

This XR-WM kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-WM	QTY	PART NAME
	1	WALL MOUNT
	1	WALL MOUNT PLATE
	1	WALL MOUNT PLATE SIDE GASKET
	1	WALL MOUNT GASKET
	4	6 x 25mm SOCKET HEAD CAP SCREW
	4	M4x 10mm FLAT HEAD SOCKET CAP SCREW
	4	M6 FLAT WASHER
	3	3/4 NPT ENTRY PLUG
	1	3/4 NPT THREADED SMOOTH BORE BUSHING



**WARNING:**  
The XR head must not face upwards any degree beyond the horizontal position for ZONE 21, ZONE 22 hazardous location installations.



**ATTENTION:**  
Le luminaire XR ne doit pas être orienté vers le haut à un degré quelconque au-delà de la position horizontale pour les installations en zones dangereuses de ZONE 21, ZONE 22.



## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

Install provided 3/4 NPT conduit plugs in desired locations on wall mount. To maintain ingress rating all NPT entries not used for wiring connections are required to be plugged. Torque to 10 Nm (88 in-lbs)

#### NOTE:

To aid in assembly and provide protection against ingress, use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.

Un-used conduit opening must be plugged to maintain the integrity of the enclosure.

### STEP 3.

Install provided 3/4" NPT plastic bushing onto side NPT entry on XR head, rotate so that flats are parallel to lens surface to avoid interference with mount hardware.

### STEP 4.

Install Wall Mount main body with included M6 bolts and washers and adhesive backed gasket. Apply gasket to mount with adhesive backed side. Torque to 5 Nm (45 in-lbs).

### STEP 5.

Install Back Cover Plate with 4x M4 Flat head screws and adhesive backed gasket. Apply gasket with adhesive side applied to mount main body. Torque to 1.7 N-m (15 in-lbs).

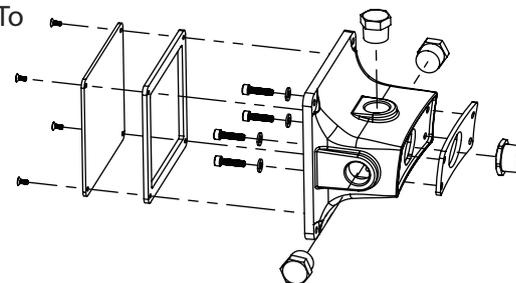
### STEP 6.

Mount luminaire assembly to desired location using 4x 1/4-20 OR M6 Screws or Bolts (Not Provided).

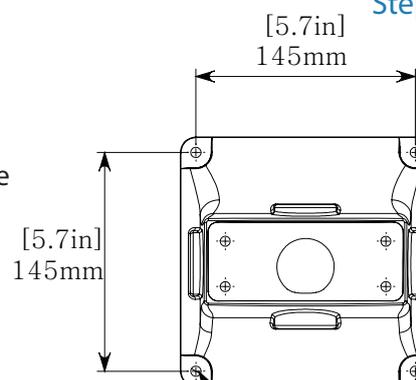
### STEP 7.

Resume installation instructions provided with luminaire (STEP 4 on PAGE 3).

### Steps 2 through 5



### Step 6



4 x Ø 6.8mm THRU ALL

## XR-YK – HIGH VIBRATION YOKE INSTALLATION

*Refer to alternate instructions if using Conduit, Hook, Pole, Wall Mount, or Yoke Mount*

This XR-YK kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-YK	QTY	PART NAME
	1	XR HIGH VIBRATION YOKE
	2	CHEEK PLATE
	8	M6 x 1 x 25mm SOCKET FLAT HEAD CAP SCREW
	4	M6 FLAT WASHER
	4	M6 x 1 x 16mm SOCKET HEAD CAP SCREW

## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

Mount XR high vibration yoke to mounting surface using a minimum of 4x ¼-20 or M6 fasteners (not provided).

### STEP 3.

Make wiring connections from branch circuit conductors to factory provided lead wires using one of the ¾" NPT threaded entries. Follow wiring method requirements of the Canadian Electrical Code for the specific hazardous location of the installation.

### NOTE:

*To aid in assembly and protection against ingress use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.*

*Un-used conduit opening must be plugged to maintain the integrity of the enclosure.*

### STEP 4.

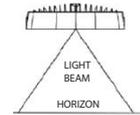
Mount XR Cheek Plates to sides of XR luminaire using 4x M6 flat head cap screws per side. Thread one cheek plate over installed wiring during assembly. Torque fasteners to 5 Nm (45 in-lbs).

### STEP 5.

Thread installed wiring through opening in XR high vibration yoke mount and install XR luminaire into yoke. The raised circular bosses on the XR cheek plates should register inside of the large circular holes on the XR high vibration yoke mount arms. Rotate luminaire to aim in the desired direction and fasten in place using 2x M6 socket head cap screws and flat washers per side. Torque fasteners to 5 Nm (45 in-lbs).

### STEP 6.

Resume installation instructions provided with luminaire (STEP 4 on PAGE 3).



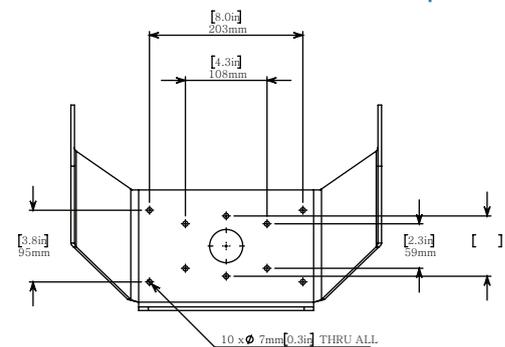
**WARNING:**  
The XR head must not face upwards any degree beyond the horizontal position for ZONE 21, ZONE 22 hazardous location installations.



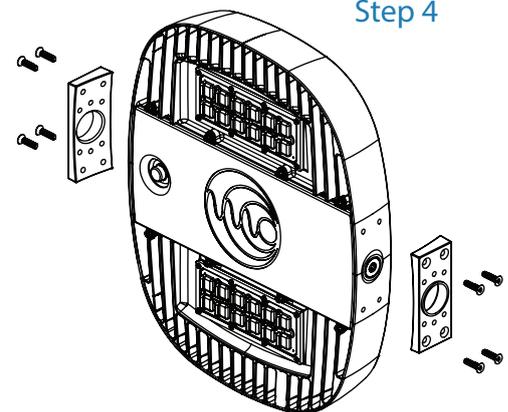
**ATTENTION:**  
Le luminaire XR ne doit pas être orienté vers le haut à un degré quelconque au-delà de la position horizontale pour les installations en zones dangereuses de ZONE 21, ZONE 22.



### Step 2



### Step 4



## XR-YM – YOKE MOUNT INSTALLATION

Refer to alternate instructions if using Conduit, Hook, Pole or Wall Mount

This XR-YM kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-YM	QTY	PART NAME
	1	YOKE MOUNT A
	1	YOKE MOUNT B
	1	CHEEK PLATE
	4	1/4-20 HEX NUT
	4	1/4" FLAT WASHER
	4	1/4-20 x 0.5in CARRIAGE BOLT
	4	M6 x 25mm HEX HEAD CAP SCREW

## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

Make wiring connections from branch circuit conductors to factory provided lead wires using one of the 3/4" NPT threaded entries. Follow wiring method requirements of the Canadian Electrical Code for the specific hazardous location of the installation.

#### NOTE:

To aid in assembly and provide protection against ingress, use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.

Un-used conduit opening must be plugged to maintain the integrity of the enclosure.

### STEP 3.

Loosely assemble Yoke mount with carriage bolts on inside and washers and nuts on the outside.

#### NOTE:

Depending on which mounting hole is used in the curved slot, the luminaire may be configured for an upward or downward adjustable swing.

### STEP 4.

Thread installed wiring through openings in yoke mount cheek plate and yoke mount bracket. Mount yoke assembly to luminaire using 4x M6 Socket Head Cap Screws and Washers (Provided). Torque fasteners to 5 Nm (45 in-lbs).

### STEP 5.

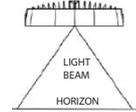
Mount luminaire assembly to desired location using 4x 1/4-20 OR M6 Screws or Bolts (Not Provided).

### STEP 6.

Adjust and aim luminaire to desired position. Torque hardware nuts to 9 N-m (80 in-lbs).

### STEP 7.

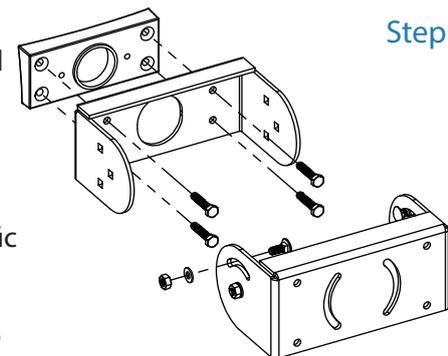
Resume installation instructions provided with luminaire (STEP 4 on PAGE 3).



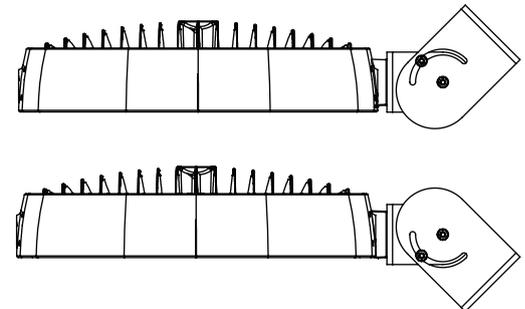
**WARNING:**  
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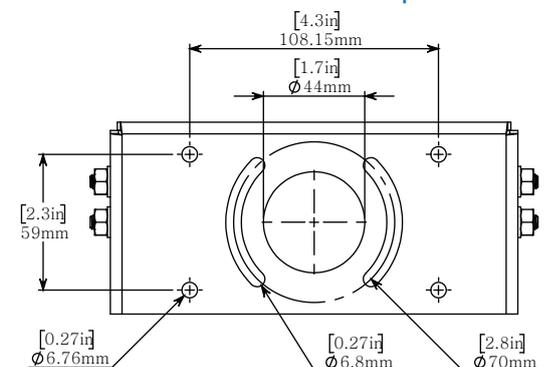
**ATTENTION:**  
Le luminaire XR ne doit pas être orienté vers le haut à un degré quelconque au-delà de la position horizontale pour les installations en zones dangereuses de ZONE 21, ZONE 22.



Step 3



Step 5



## XR-HK – HOOK PENDANT INSTALLATION

*Refer to alternate instructions if using Pendant, Wall, Pole or Yoke Mount*

This XR-HK kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-HK	QTY	PART NAME
	1	PENDANT HOOK ASSEMBLY
	1	ANTI-ROTATION ASSEMBLY



## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

It is recommended to install Secondary Safety Cable by looping appropriate steel cable or chain through the outer band of the unit and fastening a closed loop. Secondary safety hardware must be rated for a minimum of 110lbs. Secondary safety cables made from stainless steel aircraft cable are available upon request.

### STEP 3.

Slide anti-rotation lock onto suspension hook assembly and install hook assembly into ¾ NPT threaded entry. Tighten to hand tight plus 1 to 2 turns. Slide anti-rotation lock into place and tighten set screw to lock unit in place.

### NOTE:

*To aid in assembly and provide protection against ingress, use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.*

*Un-used conduit opening must be plugged to maintain the integrity of the enclosure.*

### STEP 4.

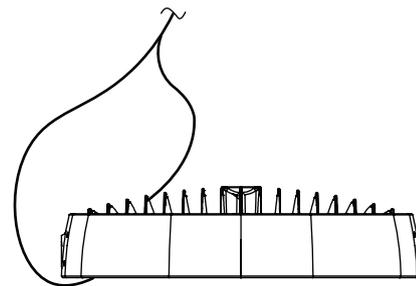
Latch hook onto eye-bolt or other fixed mounting loop. Mounting point must be rated for a minimum of 110lbs.

### STEP 5.

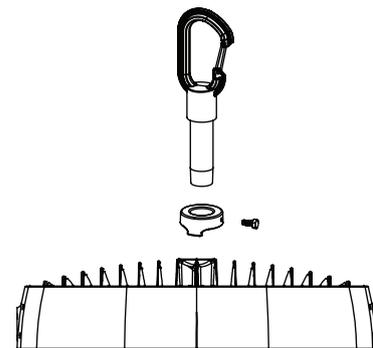
Install remaining loop of secondary safety chain or steel cable to suitable mounting location and fasten securely.

### STEP 6.

Resume installation instructions provided with luminaire (STEP 4 on PAGE 3).



Step 2



Step 3

## XR-CM – CONDUIT MOUNT INSTALLATION

*Refer to alternate instructions if using Wall, Hook, Pole or Yoke Mount*

This R-CC kit is intended for use with XR luminaire as marked on the luminaire nameplate.

R-CC	QTY	PART NAME
	1	ANTI-ROTATION BRACKET ASSEMBLY

This kit contains Anti-Rotation-Lock  
(1004-01-02-201)



### INSTALLATION STEPS

#### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

#### STEP 2.

When using the R-CC anti-rotation lock, slide it first onto suitably mounted hanging conduit or luminaire hanger loosely tighten set screw. Fixed Rigid Metal Conduit or luminaire hanger must be suitably mounted to prevent rotation and system must be rated for 110 lbs. Install luminaire onto 3/4" NPT threaded nipple. Tighten to hand tight contact plus 1 to 2 turns. When using the R-CC loosen set screw and slide R-CC into place with flats aligned to those on luminaire hub and tighten set screw to lock unit in place.

#### NOTE:

*To aid in assembly and provide protection against ingress, use of a petrolatum or soap thickened mineral oil based thread lubricant/sealant is necessary.*

*Un-used conduit opening must be plugged to maintain the integrity of the enclosure.*

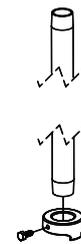
#### STEP 3.

Install Secondary Safety Cable by looping appropriate steel cable or chain through the outer band of the unit and fastening a closed loop. Secondary safety hardware must be rated for a minimum of 110lbs.

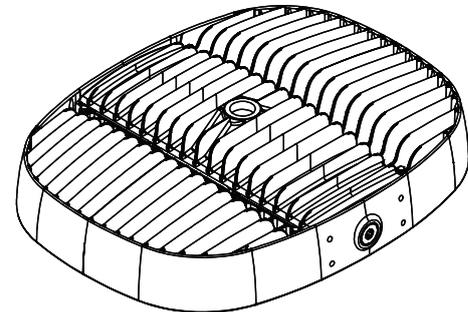
Install remaining loop of secondary safety chain or steel cable to suitable mounting location and fasten securely. Secondary safety hardware must be rated for 110lbs.

#### STEP 4.

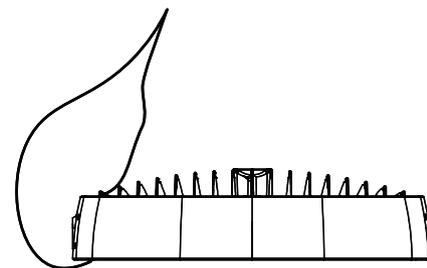
Resume installation instructions provided with luminaire (STEP 4 on PAGE 3).



Step 2



Step 3



## XR-SFY – SLIP FITTER YOKE MOUNT (Ordered Separately)

**⚠ WARNING / ATTENTION**

Listing for Class II, Division 2, Zone 22, Class III, Nonrecessed Marine Luminaire and the IP66 or IP66/67 rating are Limited to using the mount for mechanical support only and not part of the wiring system.

Luminaires marins de classe II, division 2, zone 22, classe III, non-encastré et la classification IP66 ou IP66 / 67 sont limitées à l'utilisation du support pour un support mécanique uniquement (l'entrée de conduit ¾" NPT couverte par le support doit être branchée à l'aide des bouchons fournis). Il n'est pas autorisé à être utilisé pour le système de câblage.

This XR-SFY kit is intended for use with UL Listed XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-SFY	QTY	PART NAME
	2	M6 X 16mm FLAT HEX HEAD SOCKET CAP SCREW
	1	SEALED CAP
	2	M8 X 25mm SOCKET HEAD CAP SCREWS
	6	3/8" HEX BOLTS
	4	M6 X 16mm HEX HEAD CAP SCREW
	1	SLIP FITTER YOKE MOUNT (2x PIECES)
	1	CAP GASKET

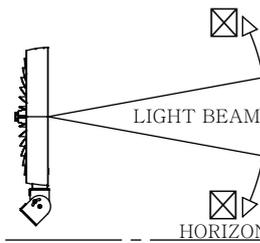
### INSTALLATION STEPS

STEP 1. Inspect shipping package and contents to ensure no damage has occurred during shipping.

STEP 2. Remove both M6 flat head cap screws using a 4mm hex key and remove sealed cap. If required angle is known, adjust luminaire angle by loosening two M8 socket head cap screws inside the slip fitter pole mount using a 6mm hex key. After aiming torque M8 socket head cap screws to 17N-m (13ft-lb).

NOTE: Aiming angle can be adjusted after Step 6.

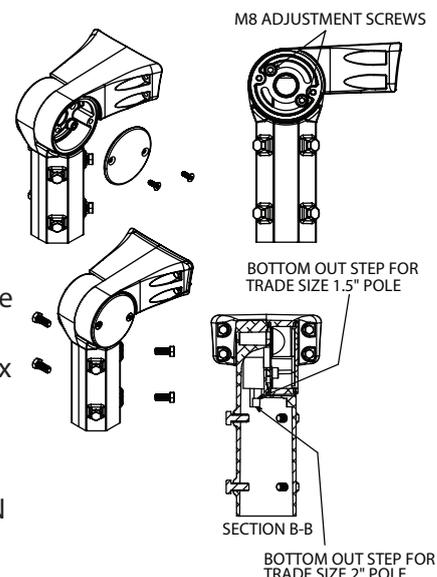
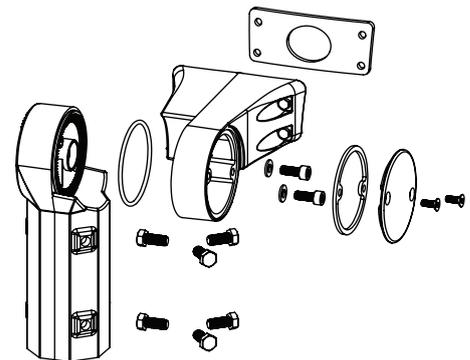
<p><b>WARNING:</b> The XR Head must not face upwards by any degree beyond the vertical position for Class II, Division 2, Zone 22, and Class III hazardous locations.</p>	<p><b>ATTENTION:</b> Le luminaire (XR) ne doit pas être orientée vers le haut de quelque degré que ce soit au-delà de la position verticale pour les emplacements dangereux de Classe II, Division 2, Zone 22 et Classe III</p>
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#### STEP 3.

Install slip fitter pole mount onto pole. Poles equivalent in size to 1-1/2" or 2" trade size pipe or conduit are to be used. Ensure slip fitter pole mount is fully seated on top of pole at the internal steps. Aim and secure slip fitter pole mount using the six provided 3/8" hex bolts. Torque to 27N-m (20ft-lb)

NOTE: Aiming can be adjusted up to 180° in either direction after installation by loosening the 6 hex bolts and tightening again to 27 N-m (20 ft-lb). DO NOT TURN BEYOND 180° as this will induce twist and strain on conductors after wiring.



## XR-SFY – SLIP FITTER YOKE MOUNT CONT. (Ordered Separately)

Warning: Listing for Class II, Division 2, Zone 22, Class III, Nonrecessed Marine Luminaire and the IP66 or IP66/67 rating are Limited to using the mount for mechanical support only (¾" NPT Conduit entry covered by mount is to be plugged using provided plugs) and not part of the wiring system.

Luminaire marins de classe II, division 2, zone 22, classe III, non-encasté et la classification IP66 ou IP66/67 sont limitées à l'utilisation du support pour un support mécanique uniquement (l'entrée de conduit ¾" NPT couverte par le support doit être branchée à l'aide des bouchons fournies). Il n'est pas autorisé à être utilisé pour le système de câblage.

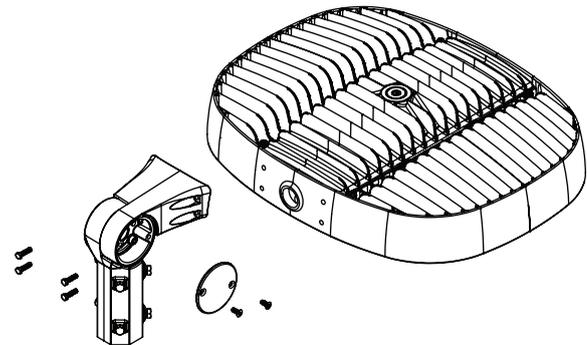
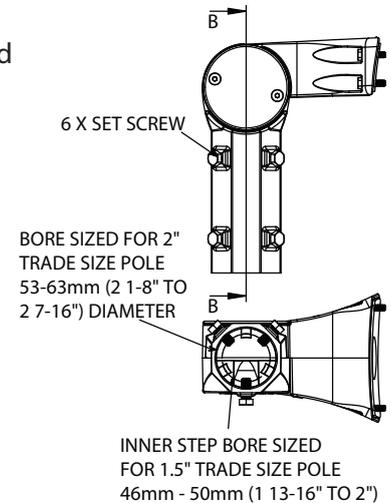
STEP 4. Install a suitable wiring system that complies with the wiring methods permitted in the Canadian Electrical Code or the National Electrical Code for the classification of the hazardous locations area of installation.

STEP 5. Ensure wiring system has appropriate strain relief in the luminaire by tying a large enough knot using the supply field wiring in the wiring compartment such that it cannot be pulled through the 3/4" inch NPT entry of the luminaire.

STEP 6. Secure slip fitter pole mount to luminaire with four M6 hex head cap screws provided using a 10mm socket. Torque to 7N-m (62in-lbs)

Step 7. Close sealed cap on slip fitter pole mount. Torque to 7N-m (62in-lbs)

Step 8. Follow the wiring instructions specified in the main installation instructions provided with the XR luminaire as applicable for making connections with the luminaire lead wires and testing the system (STEP 4 on PAGE 3).



## XR-SP-AC – SURGE SUPPRESSOR KIT

This XR-SP-AC kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-SP-AC	QTY	PART NAME
	1	BSP3-277-20KA SURGE PROTECTOR
	1	3M VHB TAPE
	1	4" Zip Tie

## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

Open XR Wiring Cover with 7mm hex socket driver. Allow Lens to hang via retention strap.

#### NOTE:

*Screws are captive fasteners and will remain attached to the Lens for ease of reinstall and prevent loss of fasteners.*

### STEP 3.

Install provided double-sided tape along side of surge protector and secure to XR body near AC input. Secure the surge protector and driver lead wires together as close to the origin of the driver lead wires as possible using the provided zip tie.

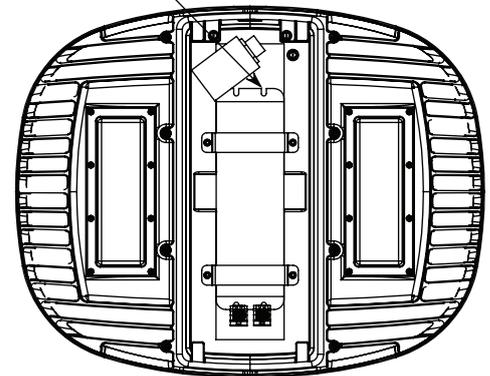
### STEP 4.

Wire according to wiring instructions on Page 12-14. Refer to NEC/CEC codes and follow all applicable local standards.

### STEP 5.

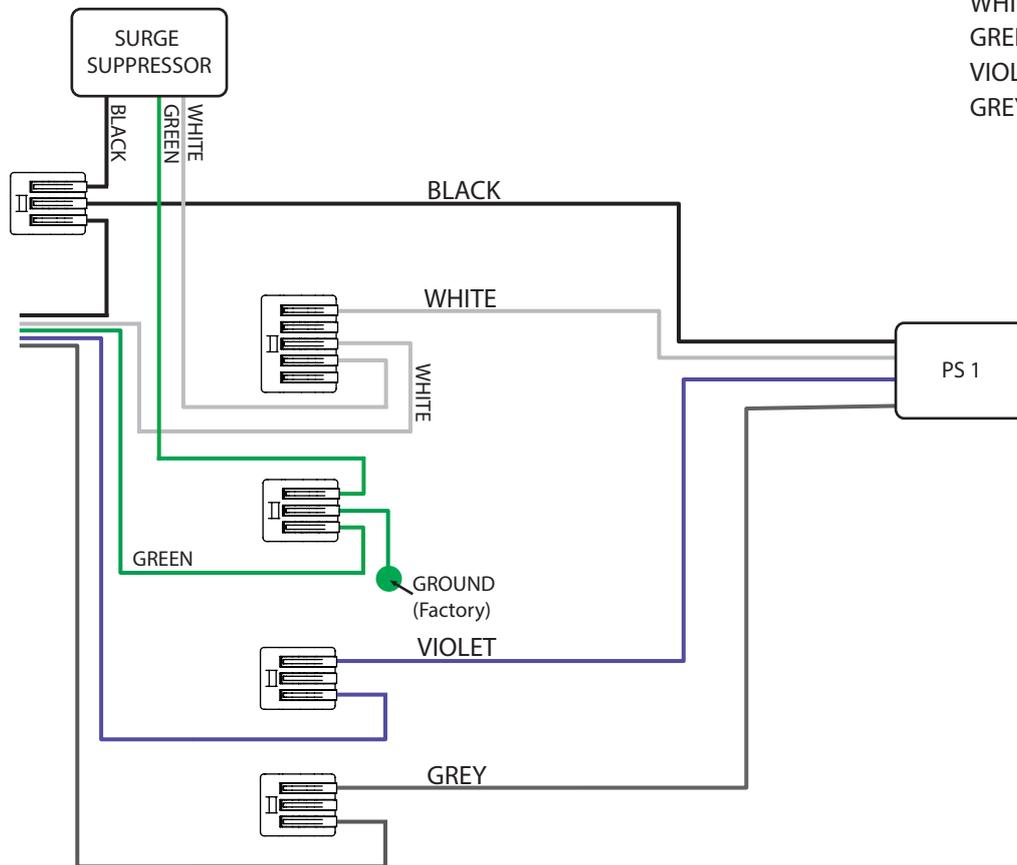
Close XR Wiring Cover. Ensure the retention cable is not pinched between XR Head and the XR Wiring Cover. Tighten lens bolts using a 7mm socket or box wrench to 1.7 N-m (15 in-lbs).

SURGE PROTECTOR LOCATION



**WIRING DIAGRAM**  
*(XR-SP-AC)*

BLACK - LINE  
 WHITE - NEUTRAL  
 GREEN - GROUND  
 VIOLET - DIM (+)  
 GREY - DIM (-)



1. Connect Black lead from surge protector to splice or terminal connected to Input branch circuit conductor and black(line) lead from LED driver.
2. Connect White lead from surge protector to splice or terminal connected to Neutral Input branch circuit conductor and White leads from LED Drivers.
3. Connect Green wire from surge protector to splice or terminal connected to Grounding branch circuit conductor and green lead from luminaire case.

## XR-SP-HV – SURGE SUPPRESSOR KIT

This XR-SP-HV kit is intended for use with XR luminaire as marked on the luminaire nameplate.

### Accessory Package Contents

XR-SP-HV	QTY	PART NAME
	1	BSP3-480-20KA SURGE PROTECTOR
	1	3M VHB TAPE
	1	4" zip tie

## INSTALLATION STEPS

### STEP 1.

Inspect shipping package and contents to ensure no damage has occurred during shipping.

### STEP 2.

Open XR Wiring Cover with 7mm hex socket driver. Allow Lens to hang via retention strap.

#### NOTE:

*Screws are captive fasteners and will remain attached to the Lens for ease of reinstall and prevent loss of fasteners.*

### STEP 3.

Install provided double-sided tape along side of surge protector and secure to XR body near AC input. Secure the surge protector and driver lead wires together as close to the origin of the driver lead wires as possible using the provided zip tie.

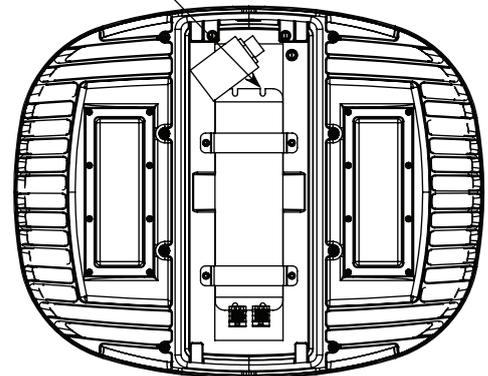
### STEP 4.

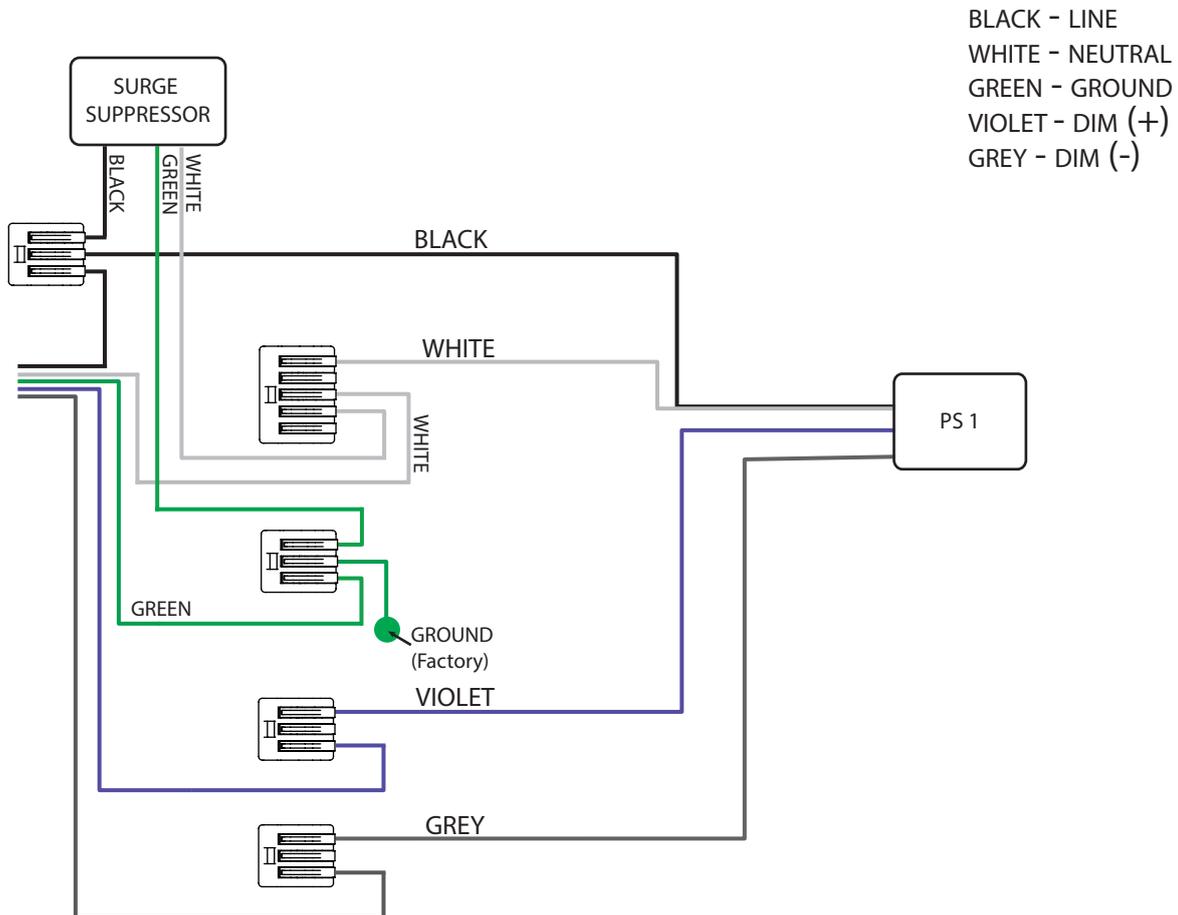
Wire according to wiring instructions on Page 14-14. Refer to CEC codes and follow all applicable local standards.

### STEP 5.

Close XR Wiring Cover. Ensure the retention cable is not pinched between XR Head and the XR Wiring Cover. Tighten lens bolts using a 7mm socket or box wrench to 1.7 N-m (15 in-lbs).

SURGE PROTECTOR LOCATION



**WIRING DIAGRAM**  
*(XR-SP-HV)*


BLACK - LINE  
 WHITE - NEUTRAL  
 GREEN - GROUND  
 VIOLET - DIM (+)  
 GREY - DIM (-)

1. Connect Black lead from surge protector to splice or terminal connected to Input branch circuit conductor and black(line) lead from LED driver.
2. Connect White lead from surge protector to splice or terminal connected to Neutral Input branch circuit conductor and White leads from LED Drivers.
3. Connect Green wire from surge protector to splice or terminal connected to Grounding branch circuit conductor and green lead from luminaire case.