



INCOPLAS[®] EM-HAZ

INSTALLATION INSTRUCTIONS



IMPORTANT: READ CAREFULLY BEFORE INSTALLING FIXTURE.

Must be wired in accordance with the National Electrical Code and all applicable local codes with the acceptable wiring method for the specific hazardous location.

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

WARNING: Make certain power is OFF and disconnect the battery before installing or maintaining luminaire.

No user serviceable parts inside. ~ 120-277V, 25W, 0.2A, 50/60Hz

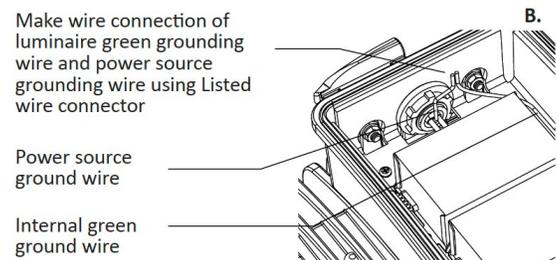
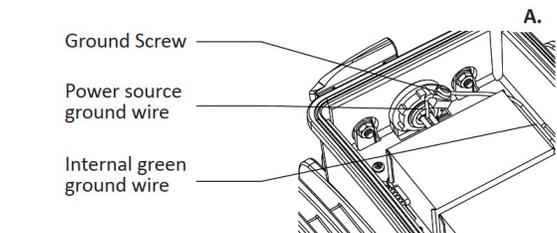
1. Maximum mounting height: 25 ft
2. Do not install luminaire in any classified location where the marked operating temperature exceeds the ignition temperature of the hazardous atmospheres. Consult luminaire nameplate for suitability in specific hazardous locations.
3. Do not install luminaire in a location where the ambient temperature exceeds the maximum ambient temperature shown on the luminaire nameplate.
4. Verify supply voltage agrees with luminaire rating as indicated on nameplate.
5. Do not let power supply cords touch hot surfaces.
6. Do not mount near gas or electric heaters.
7. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
8. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
9. Do not use this equipment for other than intended use.

GROUNDING FOR SURFACE/CEILING MOUNT (MODEL H6/H8) & ADJUSTABLE TRUNNION SURFACE/CEILING MOUNT (MODEL Z0/Z1) SEE FIGURE A.

1. Remove the grounding screw from the hub.
2. Place the internal green ground wire and the power source ground wire to the grounding screw with listed wire connector and securely tighten.

GROUNDING FOR ADJUSTABLE WALL PACK MOUNT (MODEL H0/H3) & ADJUSTABLE STANCHION POLE MOUNT (MODEL H4) SEE FIGURE B.

1. Make wiring connection of luminaire green grounding wire and power source grounding wire using Listed wire connector.



GROUNDING FOR ADJUSTABLE TRUNNION SURFACE/CEILING MOUNT (MODEL H2/H5) SEE FIGURE C.

1. Secure the incoming ground wire from the power source into the open position of the Listed wire connector provided.

GROUNDING FOR PENDANT MOUNT (MODEL H7/H9) SEE FIGURE D.

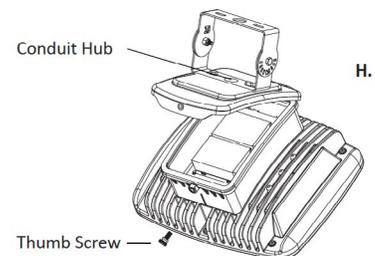
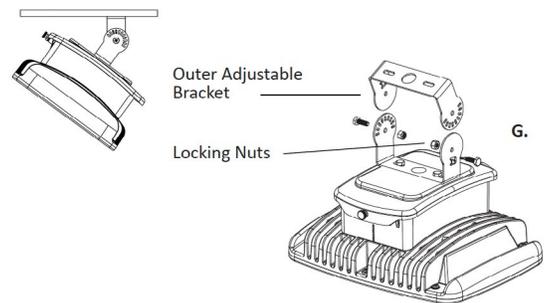
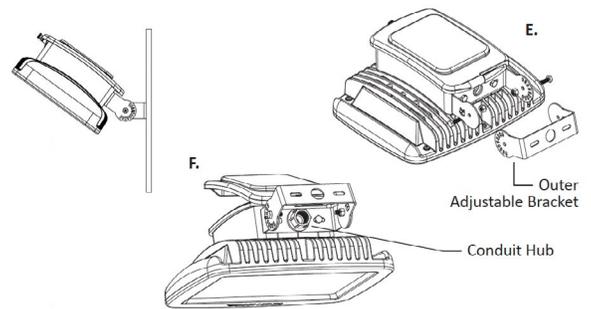
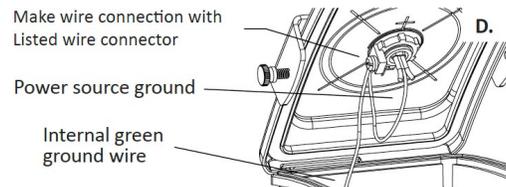
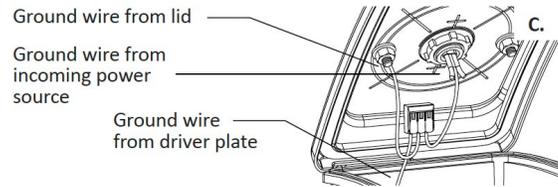
1. Remove the grounding screw from the hub.
2. Place the internal green ground wire and the power source ground wire to the grounding screw with listed wire connector and securely tighten.

A. ADJUSTABLE WALL PACK MOUNT (MODEL H0/H3)

1. Remove the outer adjustable bracket and securely mount to desired wall surface using (2) 1/4X20 bolts. See Figure E.
2. Feed supply wire through conduit Hub, and make appropriate supply connections per “Wiring Instructions” and connect the ground wire per the grounding instructions for Adjustable Wall Pack mount. Use suitable wiring method for connection to the conduit hub in accordance with the NEC, CEC and local codes for the specific Hazardous Location. See Figure F.
3. Close the fixture, taking care to ensure all wires are inside the LED Driver Housing/ Wiring Compartment and install the 1/4X20 Stainless Steel thumbscrew and tighten.

B. ADJUSTABLE TRUNNION MOUNT (MODEL H2/H5)

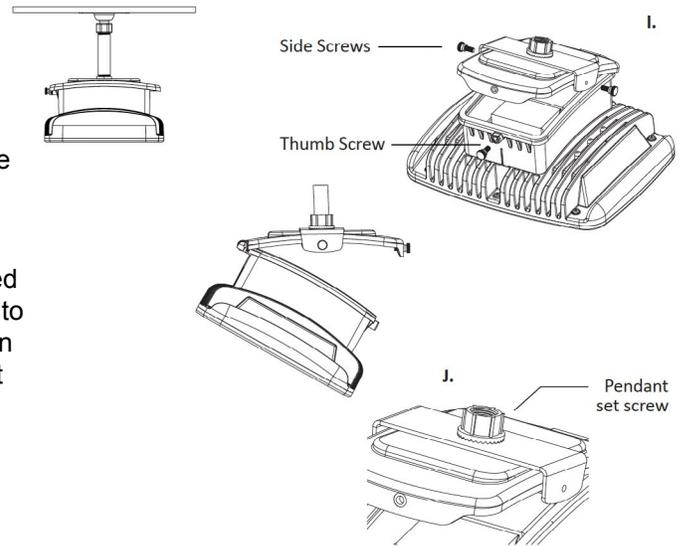
1. Remove the outer adjustable bracket and securely mount to desired ceiling surface using 1/4X20 hardware. See Figure G. (Not Supplied)
2. Re-attach the fixture to the mounted bracket to the desired surface/ceiling angle and secure the locking nuts.
3. Open lid of fixture to access LED Driver Housing/ Wiring Compartment by removing thumbscrew. See Figure H.
4. Feed supply wiring through conduit Hub and make appropriate supply connections per “Wiring Instructions” and connect the ground wire per the grounding instructions for Adjustable Trunnion mount. Use suitable wiring method for connection to the conduit hub in accordance with NEC,CEC and local codes for the specific Hazardous Locations.See Figure H.
5. Close the fixture, taking care to ensure all wires are inside the LED Driver Housing/ Wiring Compartment and install the 1/4X20 Stainless Steel thumbscrew and tighten.



C. PENDANT MOUNT (MODEL H7/H9)

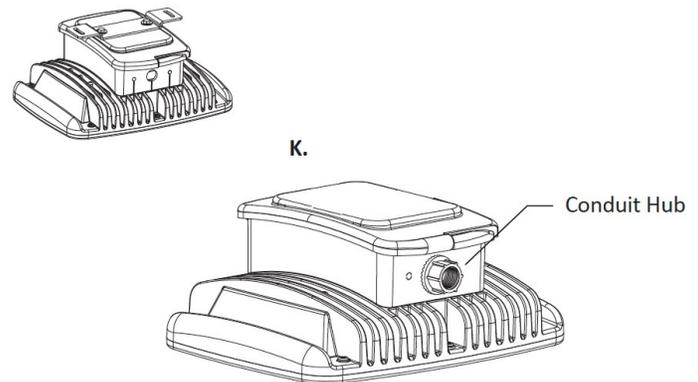
Use ¾" NPT threaded rigid metal conduit for pendant mounting support of fixture.

1. Position and install the conduit (pendant) at the desired location and feed the AC supply wire through the end of the pendant.
2. Remove the lid from the fixture by loosening the front thumbscrew and loosening the two side thumbscrews. Feed supply wiring through conduit Hub on the lid and attach lid to the ¾" NPT conduit (pendant). Rotate lid to desired position after the conduit threads are fully engaged with the conduit hub. See Figure I.
3. Tighten pendant set screw in the conduit Hub to prevent fixture from rotating on Pendant. See Figure J.
4. Make supply connections per "Wiring Instructions" and connect the ground wire per grounding instructions for Pendant mount.
5. Close the fixture, taking care to ensure all wires are inside the LED Driver Housing/Wiring Compartment and install all ¼X20 Stainless Steel thumbscrews and tighten..



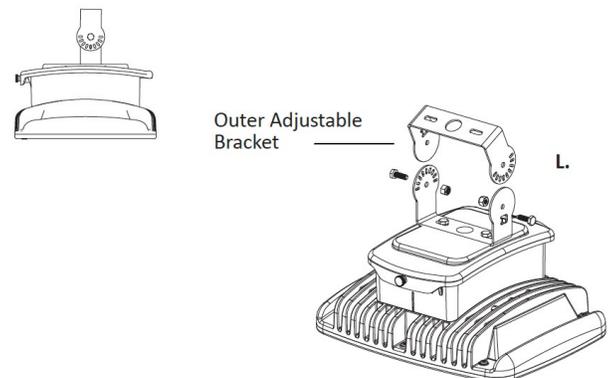
D. FLAT CEILING MOUNT (MODEL H6/H8)

1. Remove the lid (with the metal bracket still attached) of the fixture and mount it to the desired location with ¼X20 bolts. (Not Supplied)
2. Once mounted in the desired location, use the lid's guide pin to attach the fixture housing.
3. Feed the AC supply wires through the housing using the conduit Hub on the rear. See Figure K.
4. Make supply connections per "Wiring Instructions" and connect the ground wire per grounding instructions for Flat Ceiling mount.
5. Close the fixture, taking care to ensure all wires are inside the LED Driver Housing/Wiring Compartment and install the ¼X20 Stainless Steel thumbscrew and tighten.

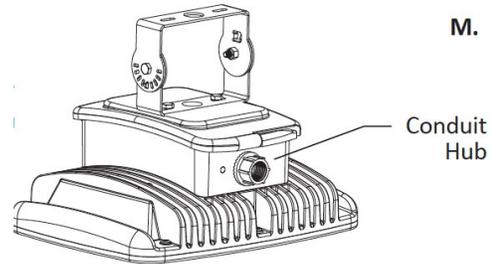


E. ADJUSTABLE TRUNNION SURFACE/CEILING MOUNT (MODEL Z0/Z1)

1. To remove outer adjustable bracket and securely mount to ceiling surface using two ¼X20 bolts or appropriate hardware supplied by customer. See Figure L.

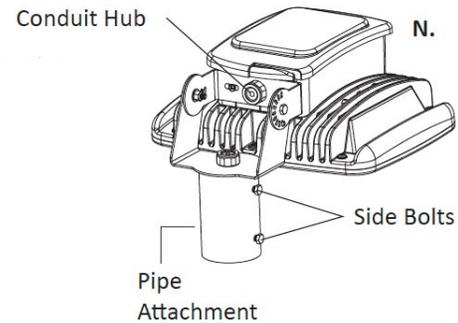


2. Re-attach the fixture to the mounted bracket to the desired surface/ceiling angle and secure the locking nuts.
3. Open lid of fixture to access LED Driver Housing/Wiring Compartment by removing thumbscrew.
4. Feed supply wiring through conduit hub and make appropriate supply connections per “Wiring Instructions” and connect the ground wire per grounding instructions for Adjustable Trunnion Surface or Ceiling mount. Use suitable wiring method for connection to the conduit hub in accordance with NEC, CEC and local codes for the specific Hazardous Locations. See Figure M.
5. Close the fixture, taking care to ensure all wires are inside LED Driver Housing/Wiring Compartment and install the ¼X20 Stainless Steel thumbscrew and tighten.



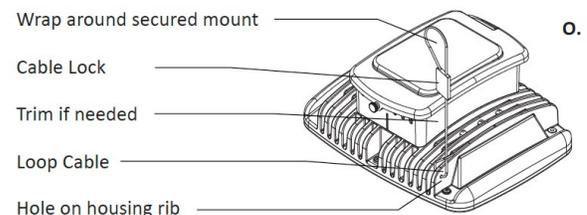
G.ADJUSTABLE STANCHION POLE MOUNT (MODEL H4)

1. Mount the fixture to pipe attachment and securely tighten (2) ½X20 side bolts on the pipe attachment. See Figure N.
2. Open lid of fixture to access LED Driver/Wiring Compartment by removing thumbscrew. Feed supply wiring through conduit hub on the luminaire and make appropriate supply connections per “Wiring Instructions” and connect grounding wire per grounding instructions for Adjustable Stanchion Pole mount. Use suitable wiring method for connection to the conduit hub in accordance with NEC, CEC and local codes.
3. Close the fixture, taking care to ensure all wires are inside LED Driver Housing/Wiring Compartment and install the ¼X20 Stainless Steel thumbscrew and tighten.



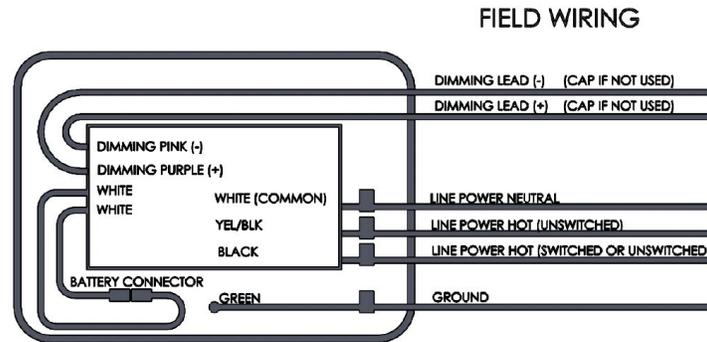
I.SAFETY CABLE INSTALLATION

1. Run cable through hole located on housing rib and feed through loop on cable.
2. Wrap cable around secured safety mounting area.
3. Insert wire into cable lock.
4. Pull cable to remove slack and trim if needed.
5. Use supplied pin and insert into hole on cable lock to adjust cable lock if needed.



FIELD WIRING INSTRUCTIONS:

1. Refer to the field wiring diagram below and make electrical connections inside the emergency driver enclosure used Listed wire connectors suitable for the number and size of the conductors. Use a suitable wiring method in accordance with the NEC and CEC local codes for the specific Hazardous Location.
2. Make grounding connections following the applicable grounding instructions.
3. All wiring including dimming wiring, must have insulation rated for the maximum rated voltage of the emergency luminaire (300V).
4. If dimming leads are used: a. Connect dimming leads to the leads on the emergency luminaire, matching the circuit polarity leads. See wiring diagram below. b. Use UL certified dimming control rated 0-10 Vdc, suitable for the specific ordinary or hazardous locations where the control is located.
5. If dimming leads are not used, insulate/cap the dimming lead ends with Listed wire connectors.
6. Connect the battery connector to the battery mating connector.



SELF DIAGNOSTIC INSTRUCTIONS/OPERATION:

The self-diagnostic feature is enabled. The emergency LED driver will conduct a self-check for thirty (30) seconds every thirty (30) days; and ninety (90) minutes self-check every 12 months. After every self-check the LED indicator light will indicate a status signal. A single self-diagnostic test can be activated by pressing the test switch three (3) times. Refer to Indicators Status Table for details.

When user change the Self-Diagnostic setting, the LED indicator on Switch button would flash 3 times, 2.5S ON/0.5S OFF for Enabled, while 0.5S ON/2.5S OFF for Disabled.

TEST SWITCH INDICATOR STATUS:

LED Indicator Status	EM Driver Status/Mode
Solid Green	System OK/AC OK (Self-diagnostic Enabled or Disabled)
Slow Flashing Red, 4s on / 1s off	Battery Not Detected, Check Battery Switch or Connection
Flashing Red, 1s on / 1s off	Battery Failure, Replace Battery
Flashing Green, 1s on / 1s off	Self-diagnostic test underway
Fast Flashing Red, 0.1s on / 0.1s off	Abnormal driver performance, replace driver
Very Slow Flashing Red, 4s on / 4s off	Over temperature
None Both LED's off	Normal Working in EM Mode
Green/Red alternating Flashing, 1s Green / 1s Red	No Load or output over voltage protection triggered

TEST SWITCH OPERATIONS:

EM Test: Press and hold test button (>1s) to enter EM mode for testing in normal AC powered. Subsequent tests can be performed after a minimum 20 Second delay in pressing the Test Switch.

EMERGENCY LED DRIVER REPLACEMENT:

CAUTION: Sealed unit. Battery(ies) not replaceable. Replace entire Emergency Driver unit model FSAC1-UNV-40C-HL, manufactured by Fulham Electronic Co Ltd. when necessary.

1. Ensure that the power supply to the emergency luminaire is completely turned off.
2. Disconnect the Battery Connector.
3. Disconnect all field wiring connections.
4. Disconnect the "LED Output Lead" and "NTC" connector from the emergency driver.
5. Disconnect the test switch/LED pilot light mating piece connector from the emergency driver test switch connector. Do not uninstall the test switch/LED pilot light.
6. If dimming leads are connected disconnect dimming leads.
7. Unscrew the (2) mounting screws that secure the emergency driver to the mounting plate and remove emergency driver.
8. Position the new emergency driver onto its mounting plate and secure it using the previously removed screws.
9. Re-connect all connections according to the wiring diagram below.
10. Insulate/cap the lead ends of the "NTC" wire with Listed wire connectors. "NTC" wire is not used.
11. Follow field wiring instructions in the "Field Wiring Instruction" section to make all field wiring connections.

