

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

When using electrical equipment, basic safety precautions should always be followed including the following:

- 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, follow these general precautions.
- Installation and service of this equipment should be performed by a **qualified licensed electrician**.
- This equipment is designed for use with germicidal UV radiation sources and must be installed in compliance with competent technical directions to prevent risk of personal injury from UV radiation.
- UV radiation can pose a risk of personal injury. Overexposure can result in damage to eyes and bare skin. To reduce the risk of overexposure this equipment must be installed in accordance with the manufacturer's site planning recommendations. This may include instructions on the relative location of each germicidal system component, the minimum distances between UV-generating devices and other objects or surfaces, and protection from line-of-sight exposure to UV radiation in occupied spaces located above the equipment mounting area (e. g. upper floor balconies, open staircases, etc.)
- UV and optical radiation can be reflected by surrounding surfaces such as ceilings and walls. Since the reflective properties of surfaces can vary widely, it should be considered as part of site planning. Follow the manufacturer's recommendations for selecting appropriate ceiling and wall finishes.
- **IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PERSONS WILL NOT BE EXPOSED TO EXCESSIVE UV OR OPTICAL RADIATION DURING EQUIPMENT OPERATION. THIS WILL REQUIRE THE INSTALLER TO CONDUCT AN ASSESSMENT OF IRRADIANCE OR ILLUMINANCE LEVELS IN THE SURROUNDING OCCUPIED SPACES PRIOR TO OCCUPANCY.**
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- Maintenance and servicing of this UV generating equipment shall be performed by authorized personnel. Service personnel must wear appropriate Personal Protective Equipment (PPE) if the equipment will be in operation during the maintenance or servicing work. Contact the equipment manufacturer for PPE recommendations and guidance.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.
- Take precautions to ensure that the concentration of ozone in the installation is limited to a value that is within applicable permissible exposure limits. Verify acceptable ozone concentrations in the installation taking into account the number of products in a given volume of space, the characteristics of the ventilation system, access, and other factors. Permissible exposure limits vary based on the place of ozone application, the length of exposure, and other factors and are publicly available. For reference, the EPA National Ambient Air Quality Standard is 0.070 ppm maximum concentration averaged over 8 hours and current OSHA regulations set an eight-hour time-weighted average permissible exposure limit of 0.10 ppm. The amount of ozone emitted by this equipment does not exceed a concentration of 0.001 ppm over an 8-hour period, as tested in accordance with UL 867.
- **Not intended for use with wall switches. Connect to an unswitched circuit intended for 24/7/365 continuous operation.**
- All references to "disinfection" are referring generally to the reduction of pathogenic bioburden and are not intended to refer to any specific definition of the term as may be used for other purposes by the U.S. Food and Drug Administration or the U.S. Environmental Protection Agency. The disinfection technology as incorporated in Acuity Brands products is not for use as a medical device or for the disinfection of medical devices.
- It is the obligation of the end-user to consult with appropriately qualified Professional Engineer(s), Certified Infection Control professionals, and Certified Industrial Hygienists, as applicable, to determine whether this equipment and its installation meets the applicable requirements for system performance, code compliance, safety, suitability and effectiveness for use in a particular application design. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this equipment in an application design.
- **DO NOT INSTALL DAMAGED PRODUCT!** This equipment has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after installation should be replaced. Contact the manufacturer for replacement.
- Follow all disposal laws when replacing or disposing. Excimer lamps do not contain hazardous materials and can be recycled by standard electronics recyclers.
- Do not install below the minimum height specified in these installation instructions.
- This equipment, including the lamp modules, must be stored in a dust-free environment and be handled while wearing clean gloves. Since Far-UVC radiation is absorbed by proteins and other organic compounds, accumulation of dust particles or touching of the optical radiation surface will negatively impact the output of the UV radiation source and its germicidal power.
- Replacement lamp modules must be purchased through Acuity Brands Lighting. Contact Acuity Brands Lighting when module reaches end of life.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired, or should problems arise which are not covered sufficiently for the purchaser's or owner's purposes, please contact technical services at Acuity Brands Lighting, 800-705-SERV (7378).

SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER
AFTER INSTALLATION

IMPORTANT SAFETY INSTRUCTIONS

OCCUPIED SPACES DIRECT IRRADIATION UV EQUIPMENT

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

 WARNING RISK OF ELECTRIC SHOCK ✓ Disconnect or turn off power before installation or servicing. ✓ Verify that supply voltage is correct by comparing it with the equipment label information. ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements. ✓ All wiring connections should be capped with UL approved recognized wire connectors.	 WARNING RISK OF BURN ✓ Allow lamp/fixture to cool before handling. Do not touch hot lens, lamp, guard, or enclosure. ✓ Follow all lamp manufacturer's warnings, recommendations and restrictions on lamp operation including but not limited to: ballast type, burning position, replacement, and recycling.
 CAUTION RISK OF INJURY ✓ Wear gloves and safety glasses at all times when removing equipment from carton, installing, servicing or performing maintenance. ✓ Avoid direct eye exposure to the light source while it is on.	 CAUTION RISK OF FIRE ✓ Keep combustible and other materials that can burn away from lamp/lens. ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.
 CAUTION OZONE EXPOSURE RISK ✓ This equipment emits UV radiation at wavelengths less than 250 nm which can generate ozone. Take precautions to ensure that ozone concentration stays within applicable permissible exposure limits.	 CAUTION UV EXPOSURE RISKS ✓ Disconnect or turn off power to equipment before performing maintenance or servicing other elements in the ceiling or space that require closer proximity than normal standing height away from the equipment. ✓ Skin or eye injury may result from overexposure to the light produced by the lamp in this equipment at distances less than 24 in. from the emitter. ✓ Emitters used in this product are in the EXEMPT RISK GROUP for actinic UV (200-400nm), near UV (315-400nm), and blue light (300-700nm) hazards, as described in IEC 62471, when installed and used according to instructions in this document. ✓ This equipment emits UV radiation which can cause degradation of many materials. Remove or protect these materials prior to operation of the unit.

Failure to follow any of these instructions could void product warranties available at www.acuitybrands.com/support/warranty. For technical assistance, call 800-705-SERV (7378).

EPA Establishment Number: 97727-IN-1. For sale only in the United States of America and Mexico. For sale only in the United States of America and Mexico. Not registered as a pesticide device and not intended for sale into the U.S. states: Hawaii.

Meets California ozone emissions limits. California Air Resources Board (CARB) certified.

Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

HDMPC Cylinders - Pendant Cord CJB/CJBSC

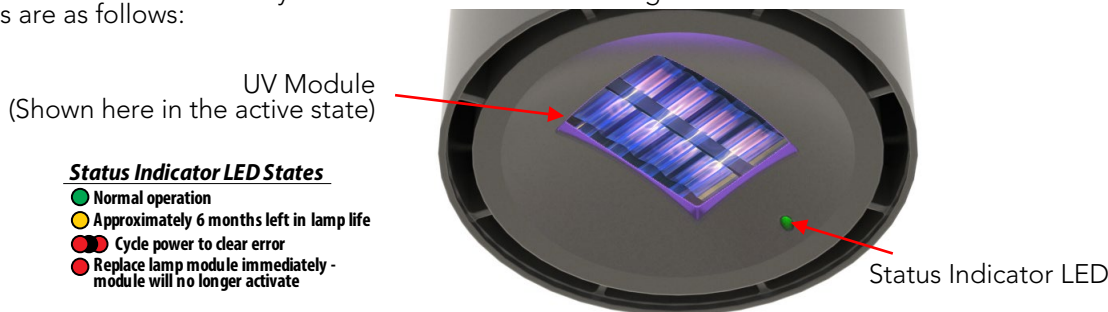
DESCRIPTION OF NORMAL OPERATION

2403300

REV. G

10/26/2021

- When line voltage is applied to the luminaire, the Status Indicator LED should appear as a green solid light. The UV lamp module will remain inactive for between 11 and 12 minutes. Complete any mechanical adjustments to the luminaire before applying line voltage, or else ensure that any work on or near the luminaire that would require any part of the installer to be more than 7ft off the floor is complete within the first 11 minutes after line voltage is applied to prevent the installer from receiving a UV dose that is larger than the recommended amount.
- The UV lamp module will operate on 12-minute cycles, activating for a duration between 10 and 50 seconds each cycle. The duration will depend on the Programming Option value in each luminaire's order nomenclature (e.g. HDMPC...D108). Refer to the product spec sheet for guidance in selecting the correct Programming Option value for each application.
- When activated, the UV module will illuminate with a faint purple glow (see image below). The Status Indicator LED will remain green whether the UV module is active or inactive if all self-diagnostics report proper function.
- The Status Indicator LED may reflect additional states throughout the lifetime of the luminaire. The possible states are as follows:

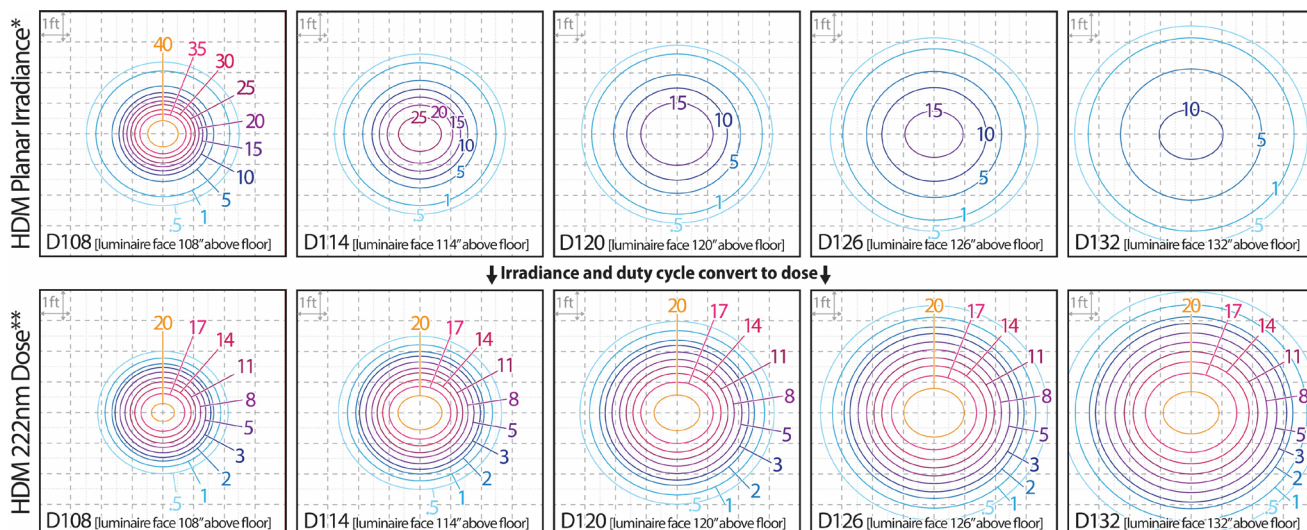


- The UV lamp modules are rated for approximately 5 years of life (3000 activated hours). The Status Indicator LED will change to yellow solid when six months of projected life are left in the lamp module – order replacement parts and schedule labor accordingly to ensure continuous operation.

UV Emitter Information

- HIGHEST IRRADIANCE AT 500 mm: 0.51 W/m²
- Use only replacement lamp modules provided by Acuity Brands Lighting. Each unit has a label listing the correct replacement part to order.
- Minimum height of bottom face of luminaire when installed:

HDMPC...D108 = 108 Inch (min) to 113 Inch (max) height from floor to module face
HDMPC...D114 = 114 Inch (min) to 119 Inch (max) height from floor to module face
HDMPC...D120 = 120 Inch (min) to 125 Inch (max) height from floor to module face
HDMPC...D126 = 126 Inch (min) to 131 Inch (max) height from floor to module face
HDMPC...D132 = 132 Inch (min) or greater height from floor to module face



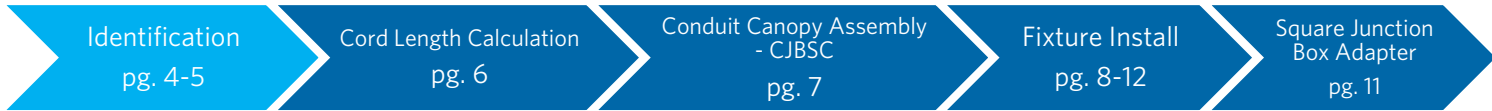
*All measurements in $\mu\text{W}/\text{cm}^2$ measured at plane 7 ft above floor - 1x1ft grid

**All measurements in mJ/cm^2 per 8 hours, measured at plane 7 ft above floor - 1x1ft grid. ACGIH guideline for maximum dose is $22.87 \text{ mJ}/\text{cm}^2$ per 8 hours. Consult Acuity Brands UV Lighting Specialist for layout of multiple-luminaire installations.

HDMPC Cylinders - Pendant Cord CJB/CJBSC

INSTALLATION INSTRUCTIONS

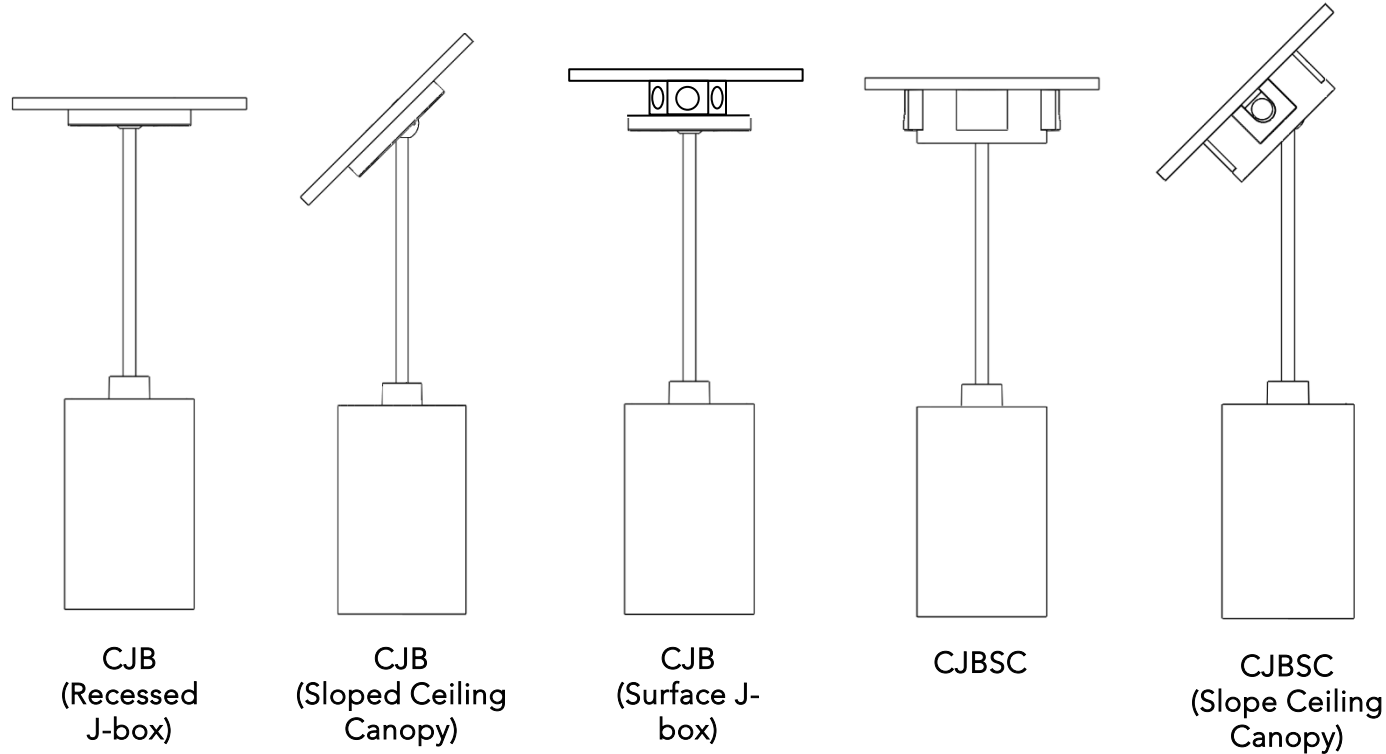
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These installation instructions are used for installing the following luminaires and kits.

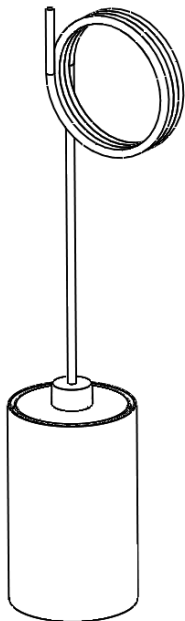
Luminaire Variants	Mounting Type	Mounting Type Description
HDMPC 6LONG (6" Nominal) HDMPC 9LONG (9" Nominal)	CJB	Canopy over Recessed or Surface J-box
	CJBSC	Canopy over Surface J-box with Conduit Covers

A) Identification of Pendant Mount Luminaires



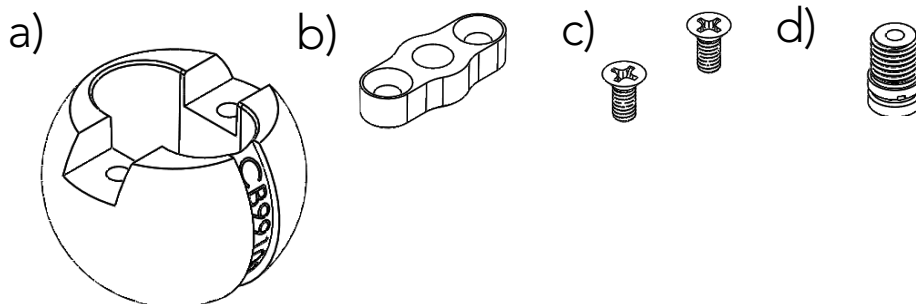
B) Identification of Parts

Cord Cylinder Assembly



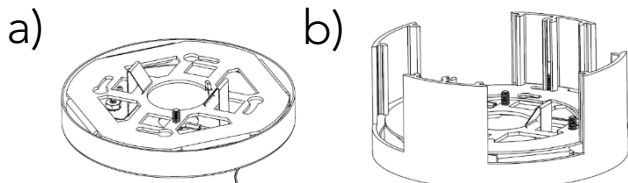
Cord Hardware

- a) Swivel ball
- b) Bracket
- c) Screw (2)
 - i. #8-32 x 3/8" Lg. Flat Head
- d) Aircraft Cable Hardware



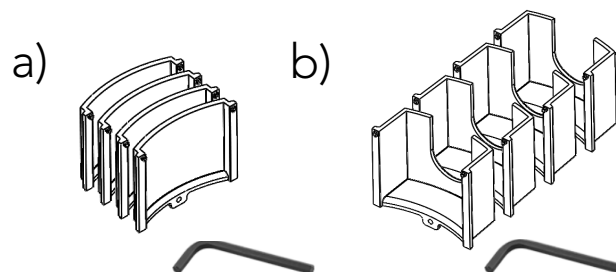
Canopy Assembly

- a) CJB Canopy
- b) CJBSC Canopy



Conduit Keys (CJBSC Only)

- a) Blank Conduit Key (4) with 5/64" Allen wrench
- b) Conduit Key (4) with 5/64" Allen wrench



C) Cord Length Calculation

1

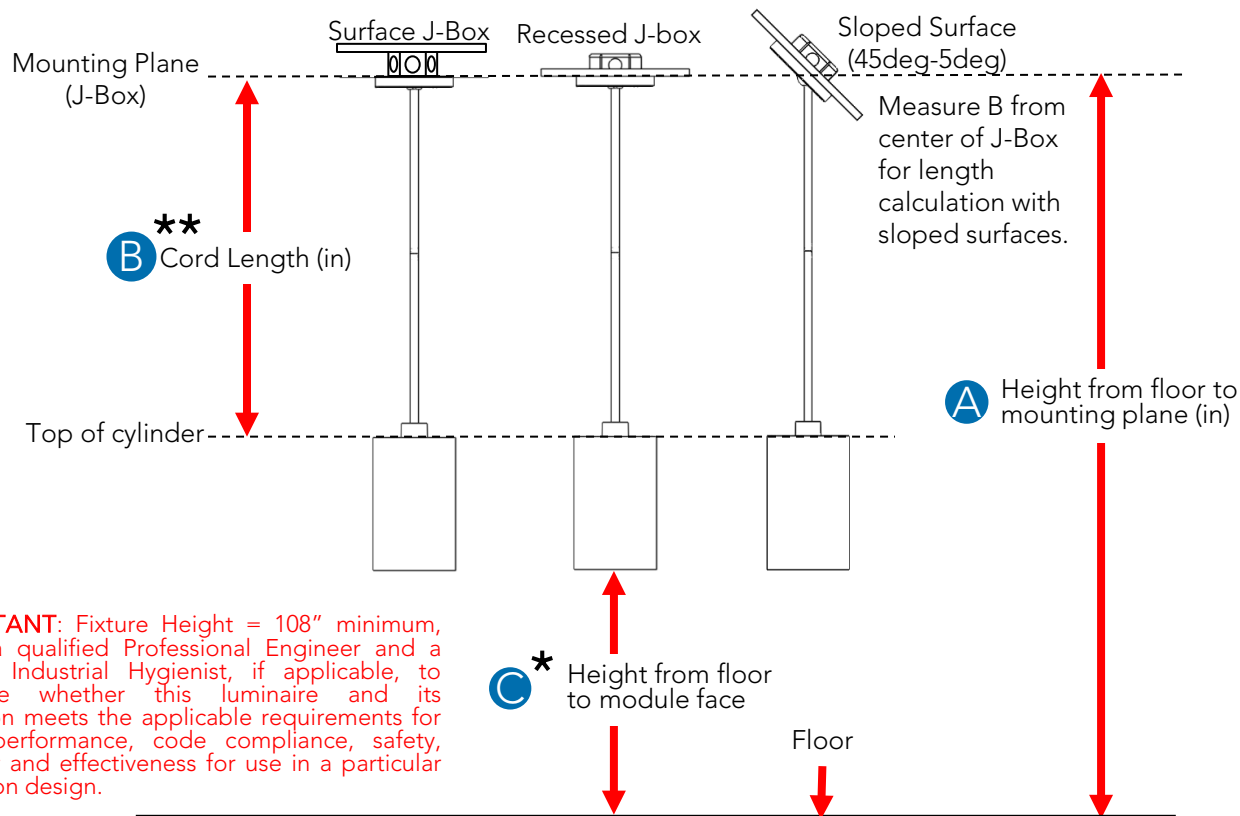
Calculate the necessary cord length per the equations below. Equations account for the required 6" extra length needed for stripping.

$$\text{Cord Length } \textcircled{B} = \textcircled{A} - \textcircled{C}^* \text{ (6LONG)}$$

$$\text{Cord Length } \textcircled{B} = \textcircled{A} - \textcircled{C}^{**} - 3" \text{ (9LONG)}$$

*9 FT. MIN

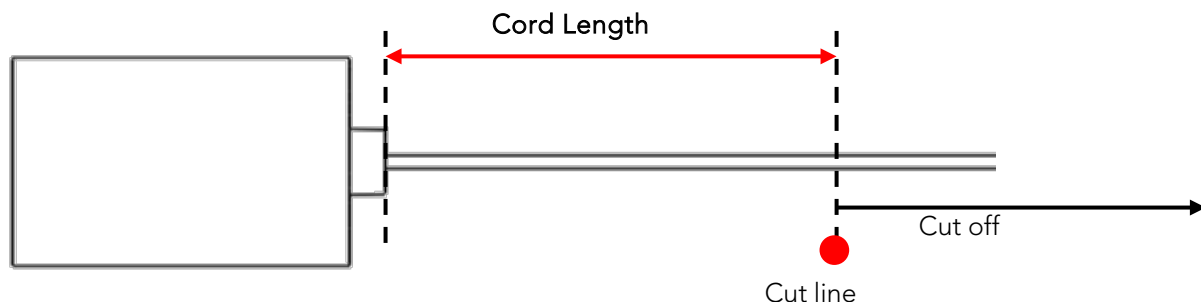
** Includes an extra 6" for stripping later in step E-3



***IMPORTANT:** Fixture Height = 108" minimum, consult a qualified Professional Engineer and a Certified Industrial Hygienist, if applicable, to determine whether this luminaire and its installation meets the applicable requirements for system performance, code compliance, safety, suitability and effectiveness for use in a particular application design.

2

Cut the cord to length.

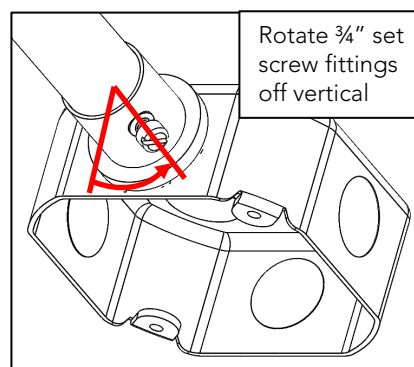
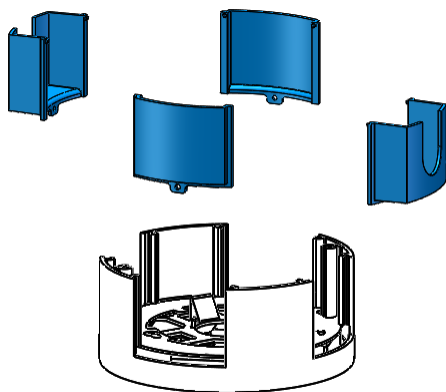


D) Conduit Canopy Assembly (CJBSC)

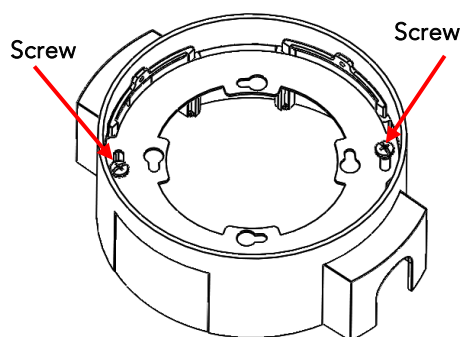
NOTE: CJBSC mounting type requires a 1.5" depth, 4" octagonal junction box.

- 1 If CJB fixture, skip to Section H. Select the appropriate keys and insert them into the correct canopy slots for each specific J-box configuration. Adjust set screws in the keys to allow the keys to slide in completely. Tighten the set screws to secure the keys in place.

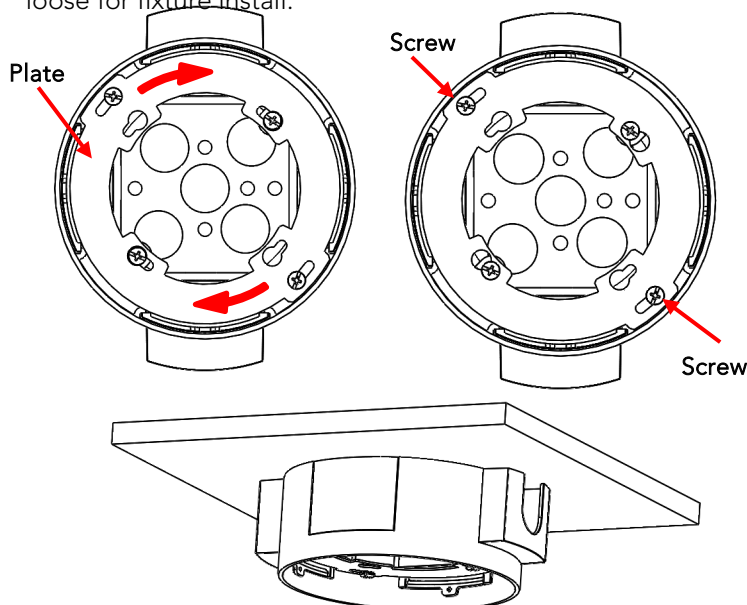
Note: Keys accept ½" and ¾" EMT conduit ONLY. Conduit fittings may vary by manufacturer. If using ¾" set screw type fittings, the fitting may need to be rotated so that the set screw is off vertical for proper clearance with canopies.



- 2 Loosen screws securing the plate to the canopy so the screws can slide within the slots.



- 3 Bring canopy up to J-box and insert J-box screws into key slots. Rotate the plate attached to the canopy to allow the J-box screws to slide into the key slots. Tighten the screws that secure the plate to the canopy. This will secure the canopy to the ceiling for fixture install. Leave J-box screws loose for fixture install.



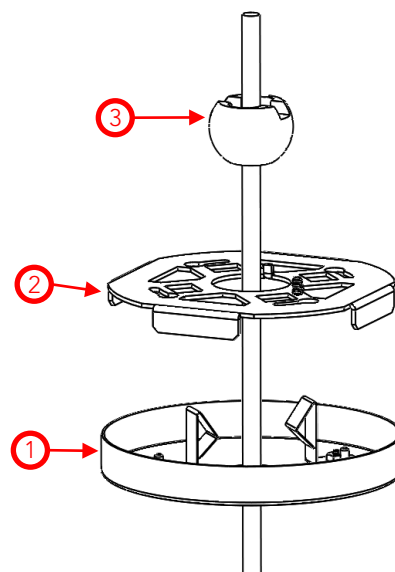
E) Fixture Install

NOTE:

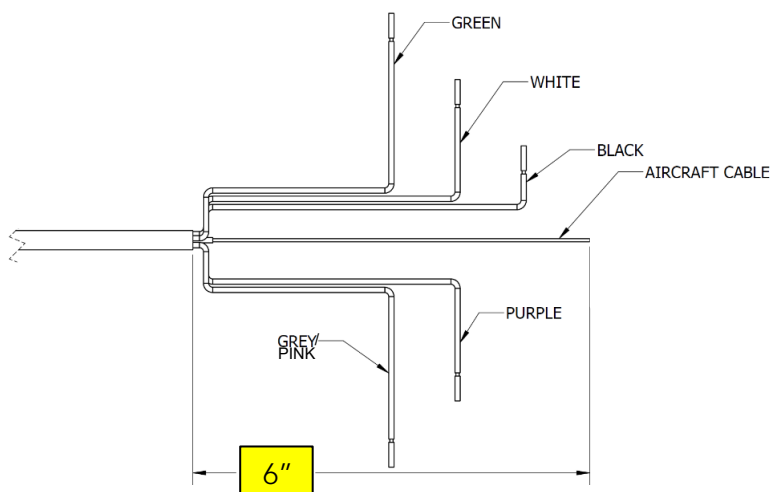
- CJB mounting type fixtures require a 1.5" minimum depth, 4" octagonal junction box.
- Order Square Junction Box Adapter option (HJBA) if square junction box will be used.
 - See step F.) for installation details for HJBA.
- CJBSC mounting type fixtures require a 1.5" depth, 4" octagonal junction box.
- Recessed junction boxes cannot be more than 1/8" proud of the ceiling surface.

1 Skip to Step 2 for damp location fixtures.

2 Slide Canopy (1), Mounting Bracket (2), and Swivel Ball (3) onto the end of the cord in below order.

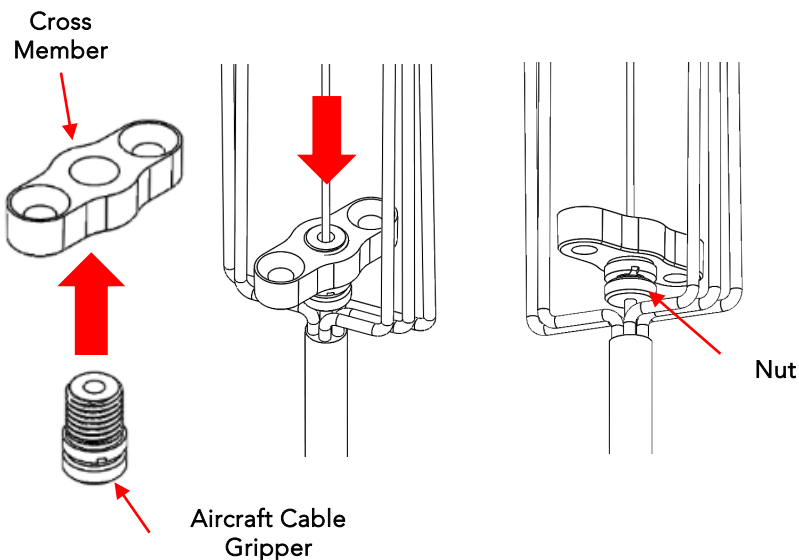


3 Strip 6in of jacket to reveal the wires.

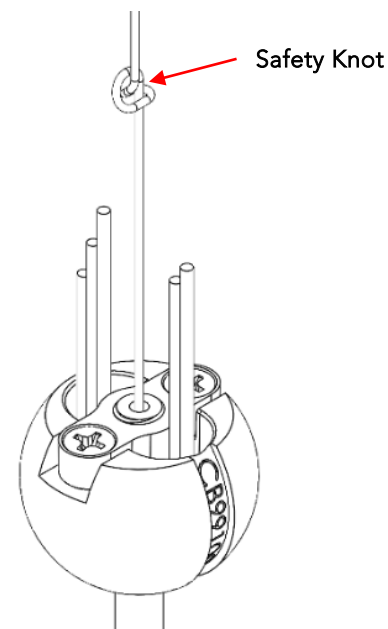


E) Fixture Install – Continued...

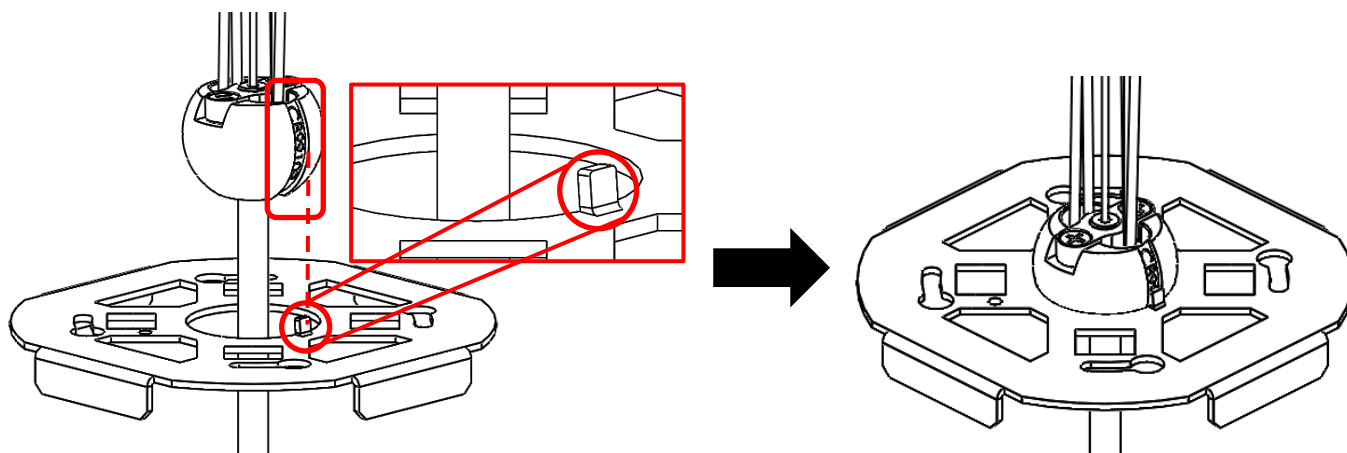
- 4** Thread the aircraft cable gripper into the cross member opposite the side of the countersink holes as shown below. Loosen the nut on the aircraft cable gripper and push it onto aircraft cable on the end of the cord. Push gripper all the way till it is stopped by the blue insulation. Hand tighten the nut.



- 5** Assemble cross member to swivel ball with screws. Route wires on both sides. Tie safety knot in aircraft cable.



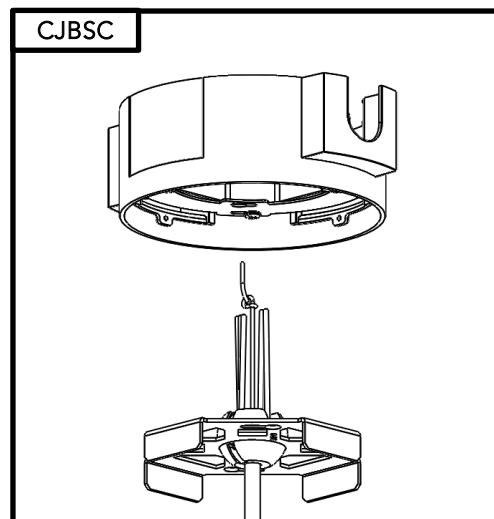
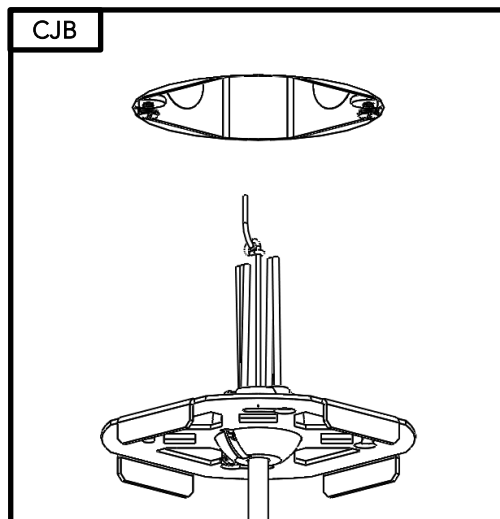
- 6** Align swivel ball groove with mounting plate tab as it is brought up to the ceiling.



E) Fixture Install – Continued...

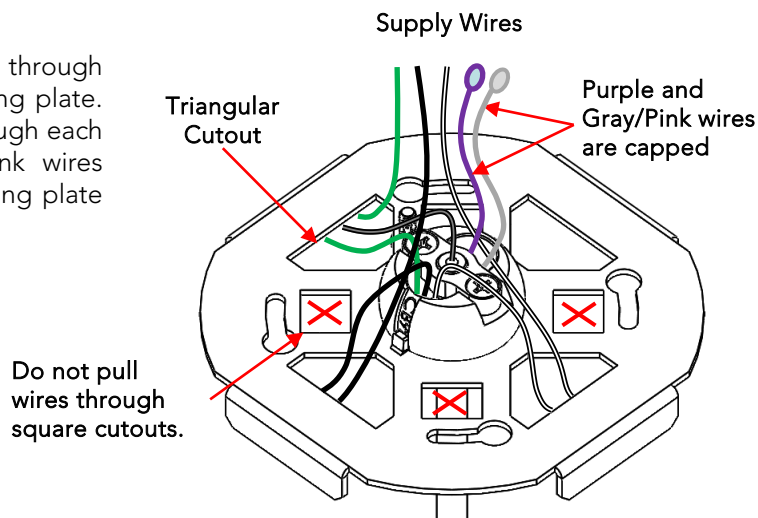
7

Bring the fixture up to junction box with the swivel ball seated in the mounting plate.



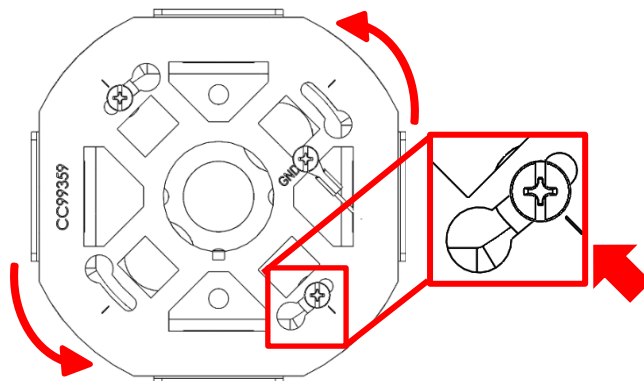
8

Pull cord wires, including the aircraft cable, through the multiple triangular cutouts in the mounting plate. Also pull the corresponding supply wires through each respective cutout. The purple and gray/pink wires should be capped before assembling mounting plate to J-box.



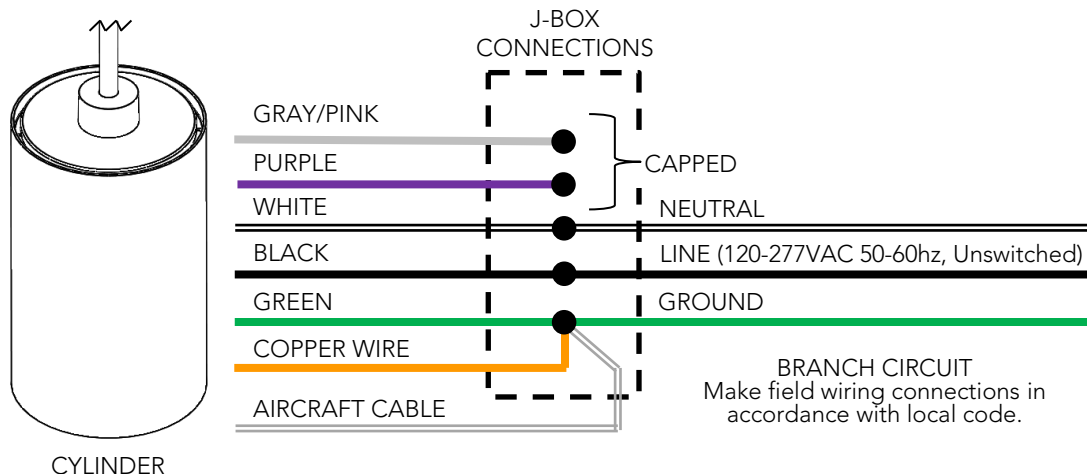
9

Use the keyholes in the mounting bracket to secure it with the J-box screws. Align screws with the indication marks on the bracket. Adjust as necessary for fixture alignment. Tighten screws.

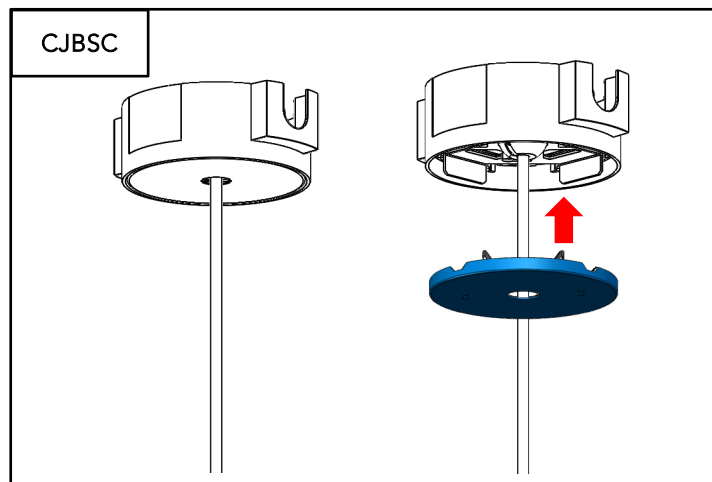
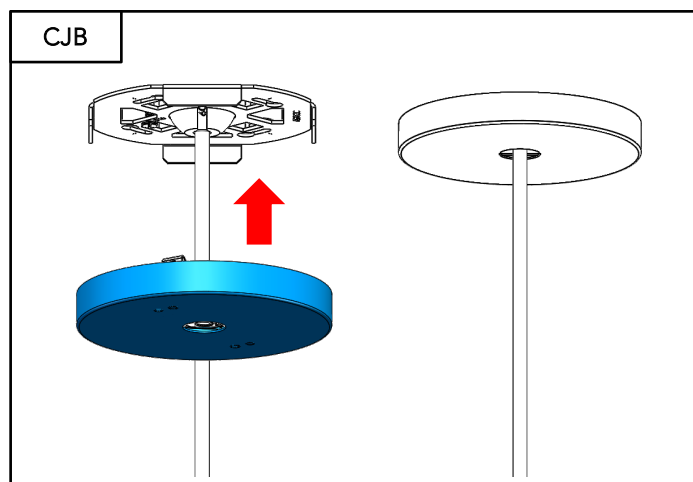
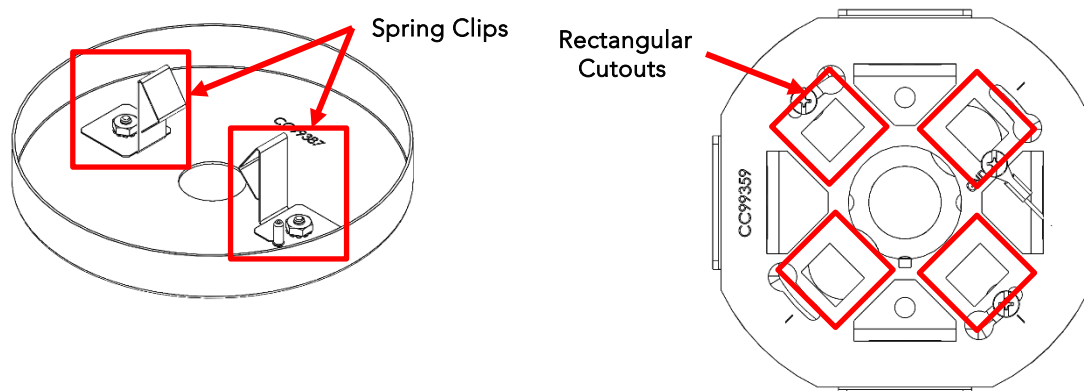


E) Fixture Install – Continued...

- 10** After securing mounting plate, make branch circuit connections and push them through the mounting bracket cutouts into the J-box.



- 11** Bring the canopy up to the ceiling and align the spring clips on the canopy with the rectangular cutouts on the bracket. Push the canopy up to the ceiling to snap the clips into the cutouts to secure the canopy.



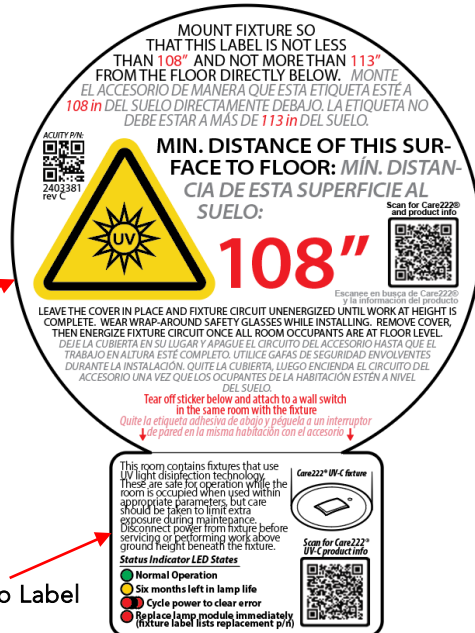
E) Fixture Install – Continued...

12 Once the fixture is installed, remove the protective face cover and inspect the module glass for cracks or dust and fingerprints, etc. If cracks are present, DO NOT APPLY POWER, but return the fixture to Acuity Brands Lighting for a replacement. If dust or fingerprints are present, clean the glass with a non-abrasive cleaner. It is recommended that the glass be cleaned periodically to retain intended UV-C transmission.

13 Remove the HDM Info Label (the lower rectangular portion of the Face Protector Label) and affix it in a location that will be visible after installation in a location likely to be discovered by future maintenance personnel. Suggested locations include: a cover plate near the entrance to the room containing the HDM fixture, the electrical panel supplying the luminaire branch circuit, or a clean, smooth wall near the room entrance.

Face Protector Label

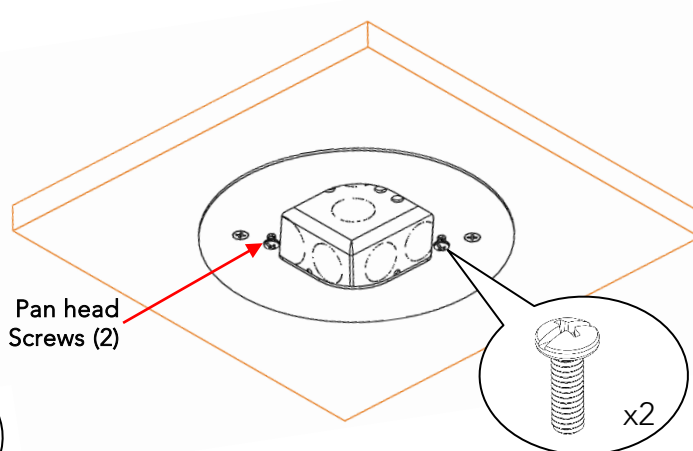
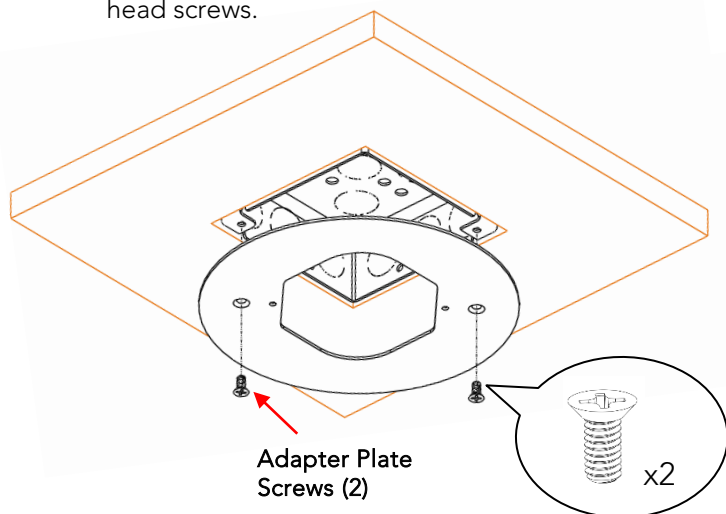
HDM Info Label



F) Square Junction Box Adapter (HJBA) Details

1 Remove existing junction box screws, then position adapter plate onto junction box and fasten in place with provided undercut flat head screws.

2 Install provided pan head screws. Position screws heads approximately 1/4" off from adapter plate surface.



3 Continue installation using adapter pan head screws for mounting fixture canopy components