

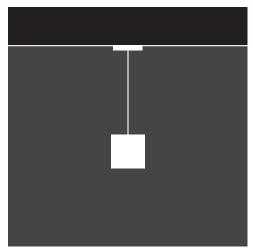
## General Luminaire Installation Instructions (SQ2 & GEO2 Products)

SQ2 & GEO2 Series Products

#### **WARNING**

## RISK OF DEATH, INJURY, OR PROPERTY DAMAGE FROM FIRE, ELECTRIC SHOCK, AND OTHER HAZARDS

- · De-energize the circuit and/or equipment before connecting to, disconnecting from, or servicing electrical equipment.
- · Make sure the equipment is properly grounded.
- Read this document in full prior to installing, servicing, or maintaining this equipment. These instructions do not cover all installation, service, and maintenance situations. If your situation is not covered, or, if you do not understand these instructions or need additional information, contact Lumato or your local Lumato distributor.
- Installation and maintenance must be performed by qualified personnel familiar with the construction and operation of this product. All applicable local and national codes and ordinances must be followed



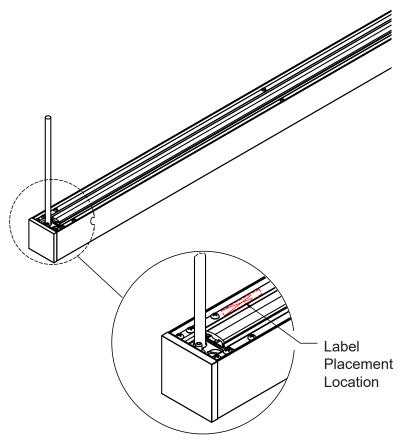
**SQ2 & GEO2** Square 2.625in x 2.625in

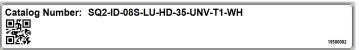


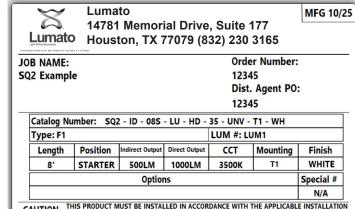
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## **Fixture Label Location**







CAUTION THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION
CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT
RISK OF FIRE AND THE HAZARDS INVOLVED



## **General Luminaire Installation Instructions**

SQ2 and GEO2 Mounting Options

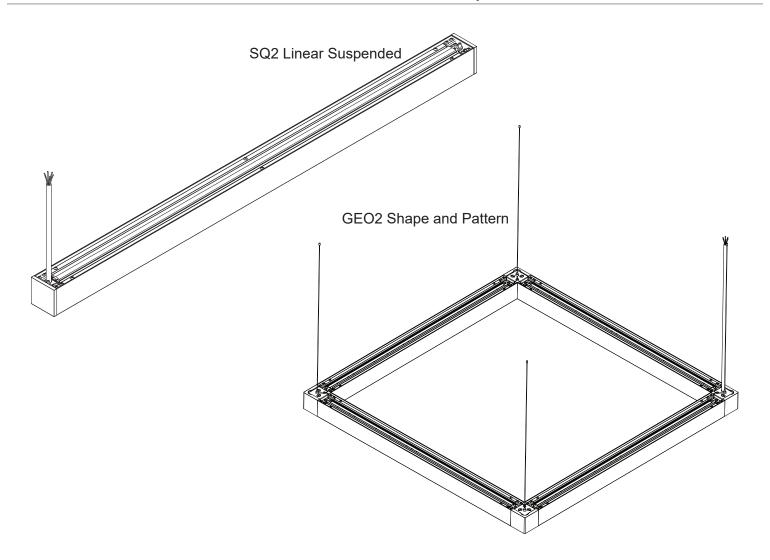
## **CABLE MOUNTING "ON GRID" (T1, T9, & SC)**

Linear suspended SQ2 and GEO2 luminaires intended for "On Grid" or "Tee Bar Ceiling" cable mounting are to be installed with T1 (1" T-Grid), T9 (9/16" T-Grid), or SC (Screw Slot Grid) Feed and Hanger Kits. Feed and Hanger Kits are shipped separately. (Figures 28, 29, and 30)

## **CABLE MOUNTING "OFF GRID" (HC & JB)**

• Linear suspended SQ2 and GEO2 luminaires intended for cable mounting are to be installed with HC (Hard Ceilng) or JB (Junction Box) Feed and Hanger Kits. Feed and Hanger Kits are shipped separately. (Figures 26 and 27)

## Fixture Installation Instructions for SQ2 Linear and GEO2 Shapes & Patterns





## **Individual Fixture Installation Instructions**

SQ2 Series Products: Individual Installation

## **REQUIRED TOOLS for Individual Installation**

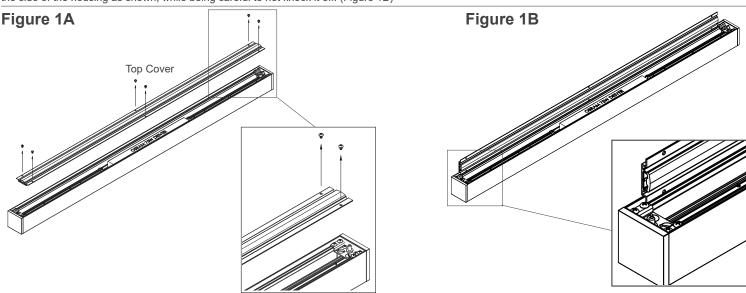






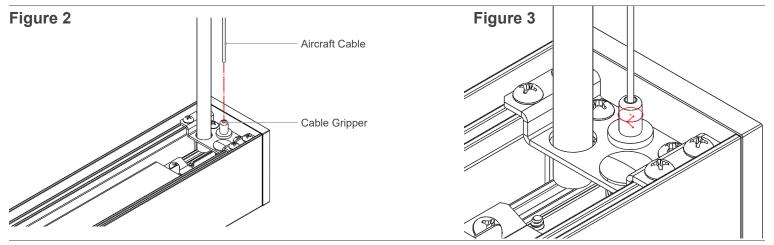


Step One: Remove the top cover by unscrewing and setting aside the (6) Philips head screws securing it to the housing (Figure 1A). The cover can be placed on the side of the housing as shown, while being careful to not knock it off. (Figure 1B)



**Step Two:** After locating the suspension cable locations as shown in the submittal drawing and referencing suspension (Figures 26, 30), suspend the fixture by feeding the 1/16" aircraft cable through each cable gripper. (Figure 2)

**Step Three:** Level the fixture and tighten the cable gripper upper nuts to lock the 1/16" steel cable. (Figure 3)



Step Four: Follow Feed Cable/Canopy Assembly instructions for connecting to building/supply power to the SJ Cord connected to the fixture. (Figures 27 and 30)

Step Five: Reinstall the top cover using the (6) Philips head screws in step 1. Ensure no wires or other components are pinched in the process. (Figure 1A)



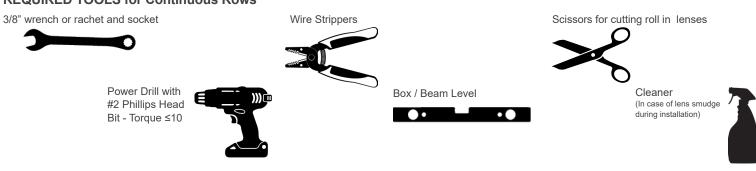
## **SQ2 Row Mount Installation Instructions**

SQ2 Series Products: Row Installation

#### **WARNING**

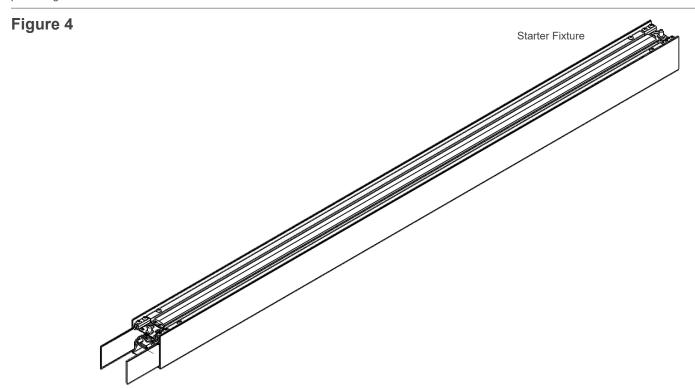
ATTEMPTING TO ASSEMBLE A CONTINUOUS ROW LUMINAIRE ON THE GROUND AND LIFTING ROW INTO THE POSITION MAY CREATE STRESS AT CONNECTION POINTS AND MAY RESULT IN DAMAGE AND/OR MECHANICAL FAILURE. FIXTURES ARE MEANT TO BE INSTALLED AT HEIGHT.

#### **REQUIRED TOOLS for Continuous Rows**



Step One: Locate and identify all Fixtures and Lens Kits that are needed to build the run. All Runs are built of Starter, Joiner, and Ender fixtures with a continuous roll in lens that is installed after the fixtures are hung. Consult the provided submittal drawing to reference these parts.

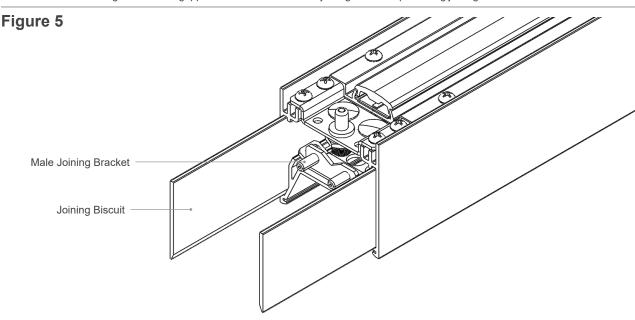
Step Two: Locate and identify the Starter fixture for the run (Figure 4). Note that this fixture has no endcap and has the male joining bracket and joining biscuits protruding from one side of the fixture.





SQ2 Series Products: Row Installation

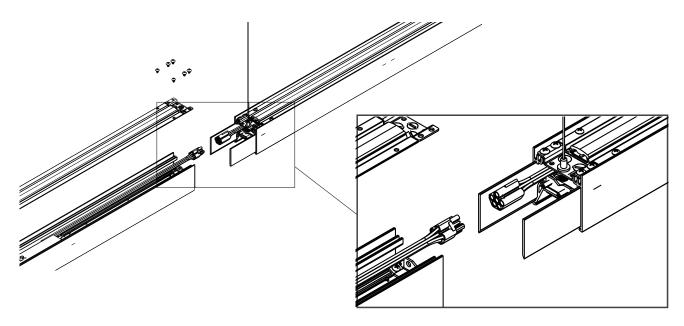
Step Three: Locate the suspension cable locations as shown in the submittal drawing and referencing suspension Figures 26 - 30, suspend the fixture by feeding the 1/16" aircraft cable through each cable gripper. The side with the male joining bracket & protruding joining biscuits is to be oriented toward the rest of the run. (Figure 5)



Step Four: Level the fixture and tighten the cable gripper upper nuts to lock the 1/16" steel cable. (Figure 3)

Step Five: Locate the next fixture in the run by referencing the submittal and aligning the female joining bracket to the preceding male joining bracket and joining biscuits protruding from the fixture. Remove the top tray and mounting bracket by unscrewing 10 Philips head screws and set aside (Figure 6). The top tray can be placed on the side of the housing, while being careful to not knock it off. (Figure 1B)

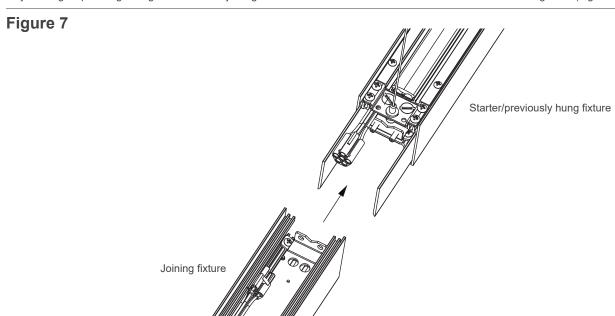
## Figure 6





SQ2 Series Products: Row Installation

Step Six: With the female joining bracket pointed towards the precedent fixture, feed second suspension cable through gripper on the far side of the joining fixture as you bring it up to height. Align and slide the joining biscuits into the Joiner/Ender fixture until the fixtures butt together. (Figure 7)



**Step Seven:** Secure the two fixtures together by tightening two (2) #10-24 nuts with an 3/8" wrench or ratchet. Feed the starter/previously joined fixture's wire harnesses into this new fixture for electrical connection. (Figure 8). **Be sure to do this step before replacing the cable mount bracket that was removed in Step 5.** 

## Figure 8

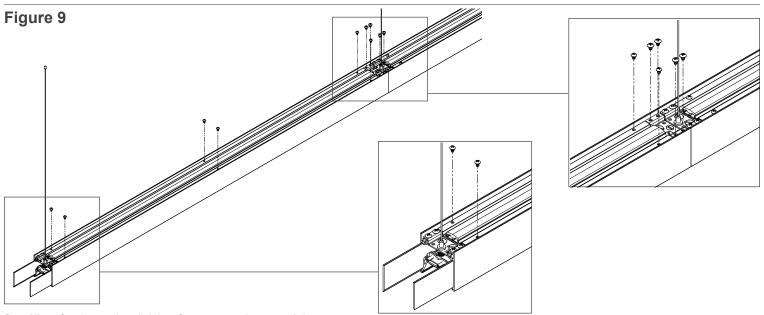


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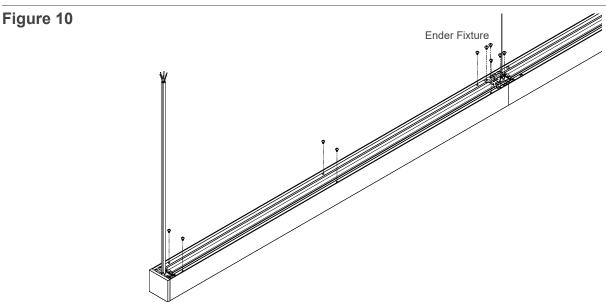
SQ2 Series Products: Row Installation

Step Eight: Re-install the top cover and mounting bracket using (10) Phillips head screws in Step 5. Ensure no wires or other components are pinched in the process. (Figure 9)



Step Nine: Continue to install Joiner fixtures repeating steps 2-8.

Step Ten: Locate and Identify Ender fixture (Figure 10). The Ender fixture will have a cord and one (1) End Cap attached. Install by repeating steps 2-8.



Step Eleven: Once Ender is installed, follow the Feed Cable/Canopy instructions to connect the run to building power.



SQ2 Series Products: Row Installation

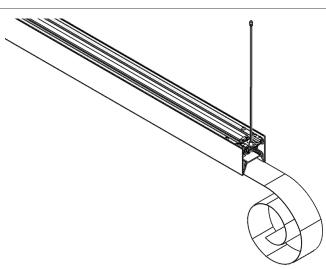
#### **WARNING**

## DO NOT ENERGIZE UNTIL FIXTURE ROW HAS THE LENS AND END CAPS INSTALLED

Step Twelve: Now that the row is hung, location and identify the Lens Kit. Lens kits are comprised of one (1) roll in lens, one (1) End Cap, and two (2) #8-18 Philips head screws.

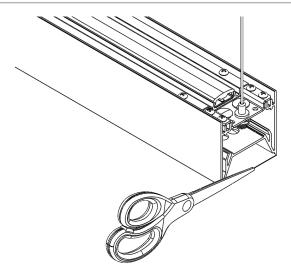
Step Thirteen: Beginning at the Starter fixture, slide the roll in lens into the lens slot at the open end of the fixture run. Continue to slide in until the lens butts up against the far endcap. (Figure 11)

## Figure 11



Step Fourteen: Trim the excess lens that remains on the end of the run after the lens is fully engaged with the far end cap. Use scissors butted up to the fixture extrusion to make this cut leaving 1/8" still protruding from the run. (Figure 12)

Figure 12

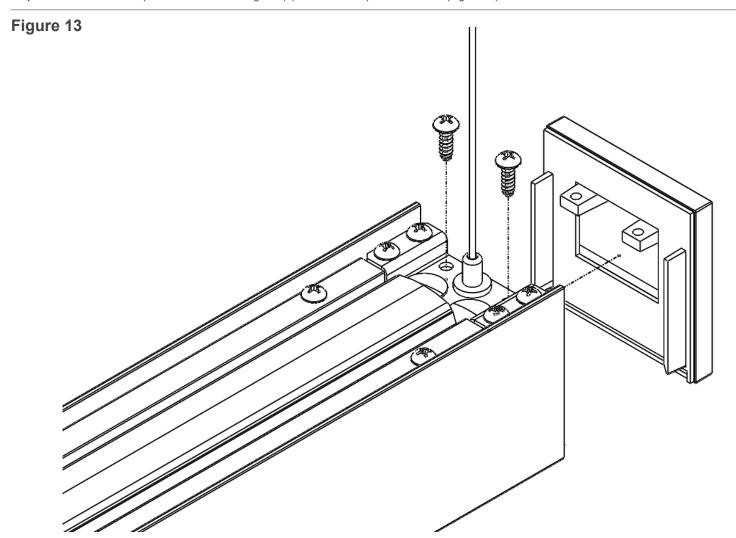


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SQ2 Series Products: Row Installation

Step Fifteen: Install End Cap on Starter fixture using two (2) #8-18x.5" Philips head screws. (Figure 13)





**GEO2** Series

#### **WARNING**

Attempting to assemble a GEO Series fixture this is larger than 5ft on the ground and lifting into position may create stress at connection points and may result in damage and/or mechanical failure. Fixtures are meant to be installed at height.

#### **REQUIRED TOOLS**

5/16" & 3/8" wrench or rachet and socket











Cleaner (In case of lens smudge during installation)

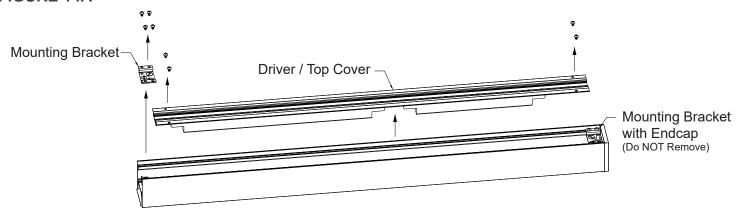


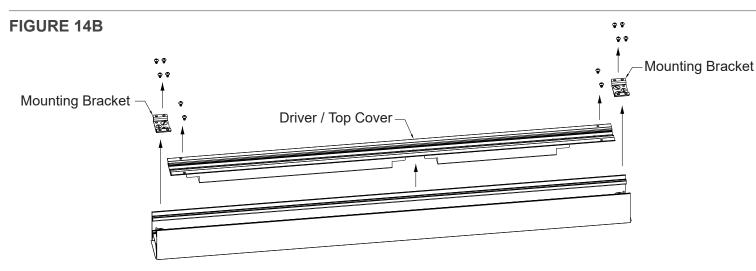
#### GEO2: -GJ OR -GS IN THE FIXTURE PART NUMBER

Step One: Start by locating one leg of the fixture by referencing the submittal or spec sheet.

**Step Two:** Remove one mounting bracket for open patterns (Chevs, Spokes, etc.) and both mounting brackets for closed patterns (Squares, Triangles, etc.). DO NOT remove any mounting brackets that are attached to endcaps. If using a rachet, you may need to remove the driver/top cover as well to access the joiner bolts. (Figures 14A & 14B)

## FIGURE 14A







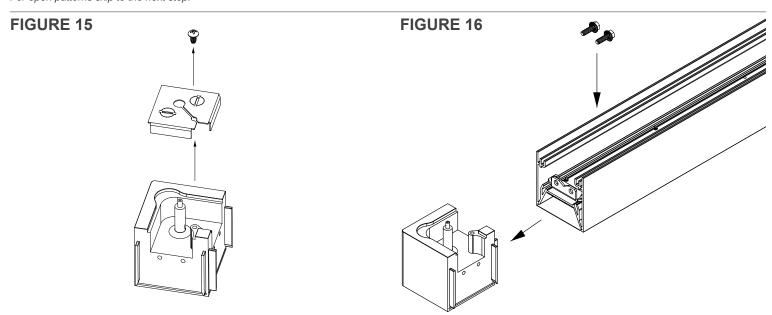
GEO2 Series

Step Three: Locate the corner block(s) that will be attached to this specific leg of the pattern by referencing the submittal or spec sheet.

**Step Four:** Remove the bracket from the top of the corner block(s). (Figure 15)

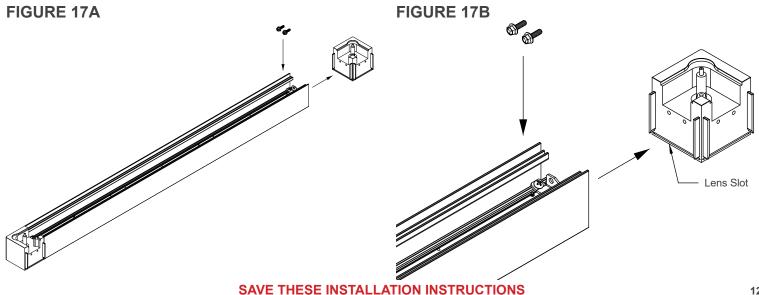
#### Step Five:

For closed patterns, use two 10-24 X 5/8" hex head screws to tighten the fixture to the first corner block. (Figure 16) For open patterns skip to the next step.



Step Six: Use steps 12 - 14 from the row mount install instructions on page 9 to install the lens into the first fixture and corner block (or first fixture and endcap for open patterns). THE LENS MUST BE INSTALLED BEFORE ATTACHING THE NEXT CORNER BLOCK.

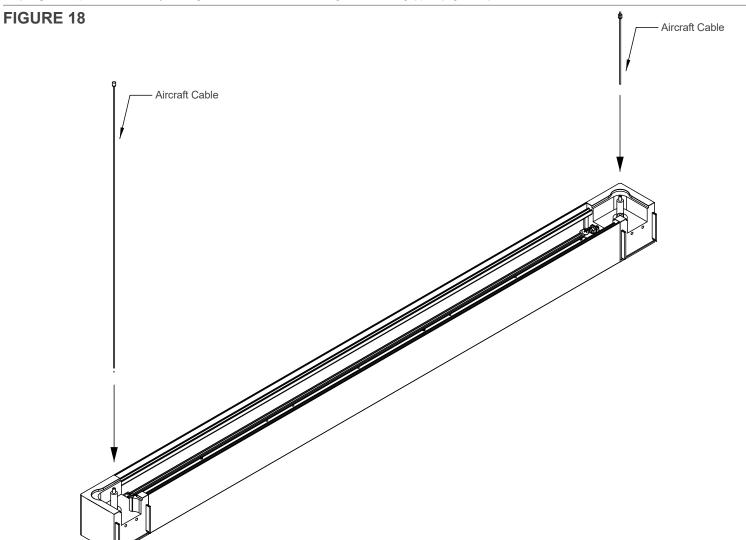
Step Seven: Use two 10-24 X 5/8" hex head screws to tighten the fixture to the second corner block (or first corner block for open patterns) ensuring that the protruding lens goes into the slot on the corner block. (Figures 17A & 17B)





GEO2 Series

Step Eight: Suspend the fixture by feeding the 1/16" aircraft cable through each cable gripper. (Figure 18)



Step Nine: Lift and level the fixture to the specified position by adjusting the 1/16" aircraft cables.

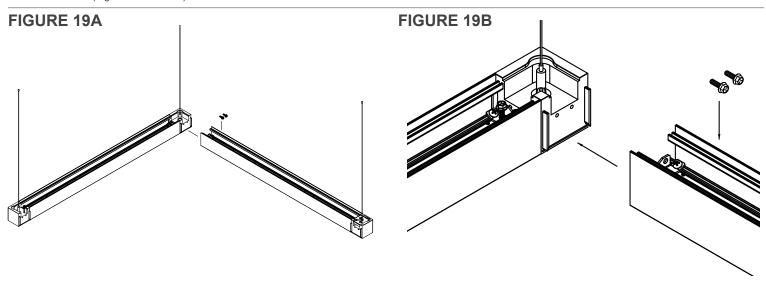
Step Ten: Locate the second fixture according to the submittal or spec sheet. Repeat steps 2-7 to prepare the second fixture and third corner block (or only second fixture for open patterns) with reference to the submittal.

NOTE: For closed patterns ensure the correct wire harness orientation (male to female) so that it connects properly to the first fixture.



GEO2 Series

Step Eleven: Hang one side of the fixture using a 1/16" aircraft cable and carefully lift the other side and attach it to the already hung fixture using two 10-24 X 5/8" hex head screws. (Figures 19A & 19B)



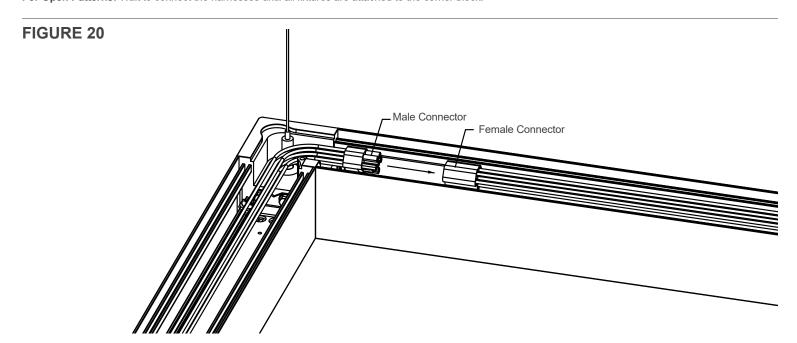
Step Twelve: Determine where to drop the feed cord(s) by referencing the submittal.

#### For Closed Patterns:

OPTION 1 (Corner Block Feed): If dropping the feed cord(s) at this corner, wait to connect the harnesses until the feed cord(s) are added.

OPTION 2 (Corner Block No Feed): If there are no feed cords at this corner, connect the wire harnesses between the two fixtures and push the wires back into one of the fixtures wiring chambers. (Figure 20)

For Open Patterns: Wait to connect the harnesses until all fixtures are attached to the corner block.





GEO2 Series

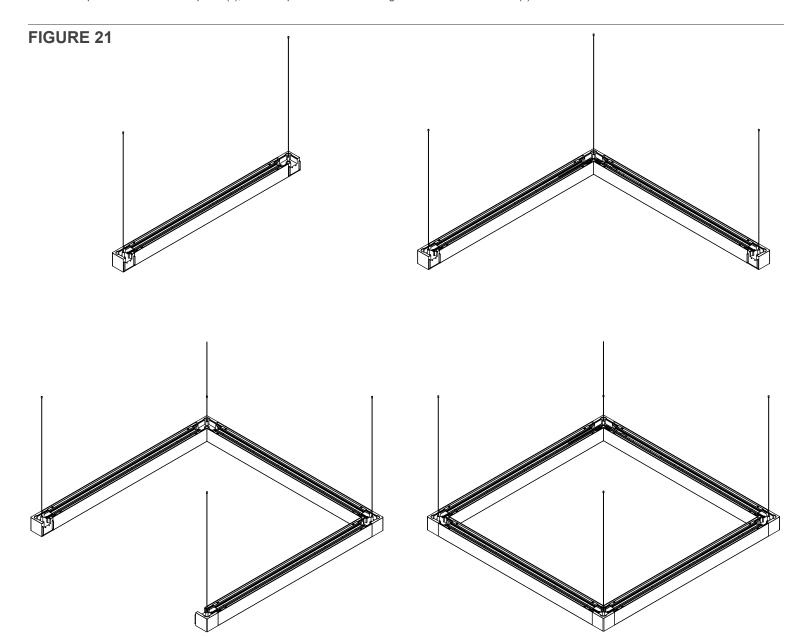
#### Step Thirteen:

For Open Patterns (Or Feed at Corner): If uncovered, re-installed the driver/top cover on the first fixture while ensuring that no wires are pinched but do not re-install the adjacent mounting bracket(s) or corner block bracket.

For Closed Patterns: Re-install the driver/top cover for the first fixture, the mounting brackets adjacent to the second corner block, and the second corner block bracket while ensuring that no wires are pinched.

Step Fourteen: Repeat steps 10-13 for each fixture leg according to the submittal or spec sheet. For closed patterns, leave the 10-24 X 5/8" hex head screws for the last two fixtures slightly loose until everything is attached before tightening all connections. (Figure 21)

NOTE: For open fixtures with end cap feed(s), follow step 18 to wire fixtures together without the feed cord(s)





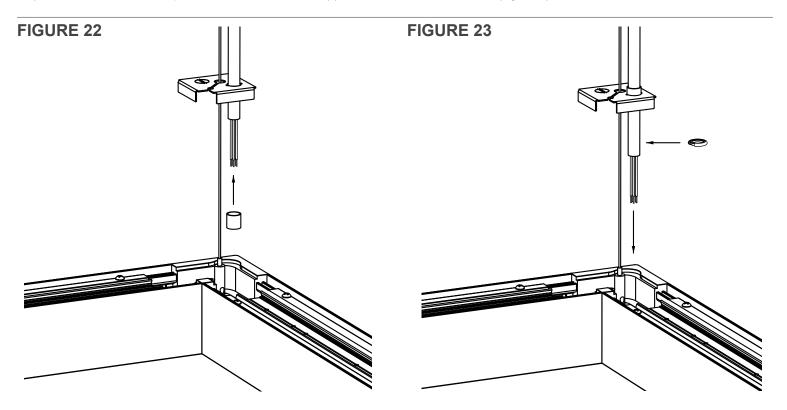
**GEO2** Series

Step Fifteen: Use a flathead screwdriver to remove the proper number of knockouts from the corner block bracket or endcap mounting bracket.

NOTE: If dropping the feed cord(s) at an endcap, remove the driver/top cover on the corresponding fixture, but DO NOT remove the endcap mounting bracket.

Step Sixteen: Run the feed cord(s) through the corner block bracket or endcap mounting bracket and add a protective sleeve to the feed cord(s) so the sleeve sits between the feed cord(s) and the bracket. (Figures 22 and 23)

Step Seventeen: Attach and crimp the strain relief to the feed cord(s) on the bottom side of the bracket. (Figure 23)

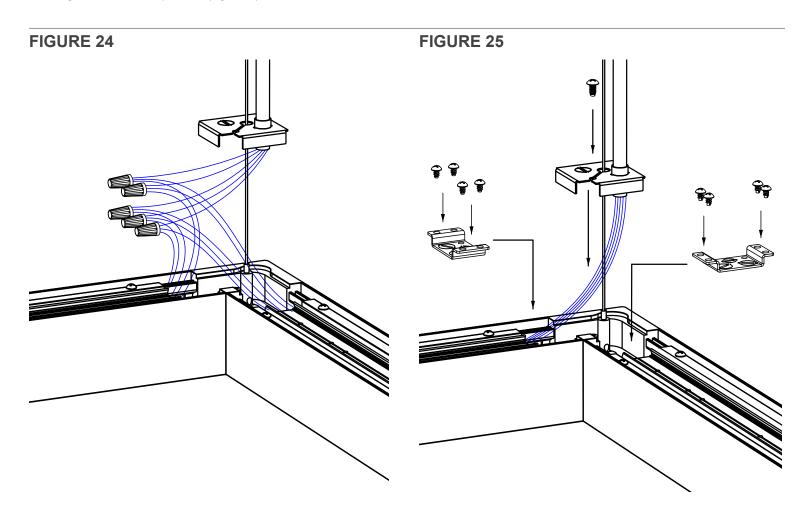




GEO2 Series

Step Eighteen: At the corner block or endcap mounting bracket with the feed cord(s), cut the connectors off the harness from the adjacent fixture(s) and strip the wires. Use wire nuts to connect the fixtures to the feed cord(s) and push the wires back into one of the fixtures wiring chambers (Figure 24). Reference the submittal drawing for the wire color key if necessary.

**Step Nineteen:** Once wires are pushed in, re-install the adjacent mounting brackets and corner block bracket using the #10-24 X 3/8" Phillips machine screw while **ensuring that no wires are pinched.** (Figure 25)



Step Twenty: With all fixture legs attached and wired properly, ensure all driver/top covers, mounting brackets, and corner block brackets have been re-installed ensuring that no wires are pinched.



## Suspended Luminaire Installation Instructions (OFF-GRID)

Off-Grid Mounting

#### NON FEED CABLE/CANOPY ASSEMBLY

Step One: Determine mounting cable spacing centers from factory shop drawing or order processing specification sheet.

Step Two: Install 1/4-20 studs projecting from the finished ceiling line 1/2".

Step Three: Insert cable supplied in kit through ceiling coupler in kit and attach to 1/4-20 stud securely. Remove threaded canopy support ring from coupler and slide canopy then support ring over cable and up to finished ceiling line. Tighten support ring to locate canopy in place.

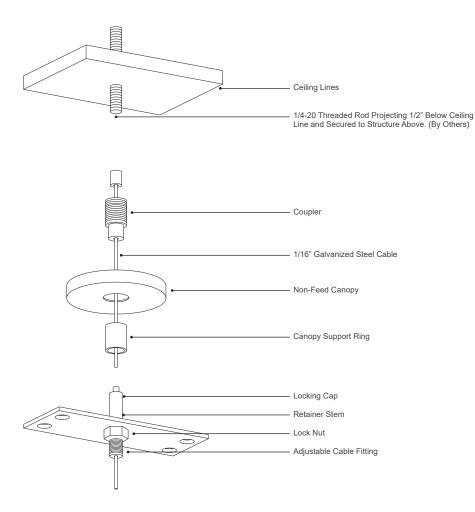
Step Four: Raise luminaire to cable assembly and route cable through the center of the adjustable cable fitting loosening the locking cap enough to allow cable to enter fitting. Feed cable through the adjustable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto retainer stem.

NOTE: If it becomes necessary to re-adjust luminaire height, loosen locking cap and depress retainer stem while adjusting to desired position.

#### WARNING

#### BE CERTAIN TO SUPPORT LUMINAIRE INDEPENDENTLY OF CABLES WHEN DEPRESSING RETAINER STEM.

## Figure 26





## Suspended Luminaire Installation Instructions (OFF-GRID)

Off-Grid Mounting

#### FEED CABLE/CANOPY ASSEMBLY

**Step One:** Determine mounting cable spacing centers from factory shop drawing or order processing specification sheet and locate a 4" octagonal junction box at location indicated for incoming wire feed point.

#### Step Two:

OPTION 1: Install cross strap support bracket to junction box with screws by others. Be sure junction box can support luminaire/luminaire row in accordance with local codes as illustrated.

OPTION 2: Drill a 5/16" dia hole in the roof of the junction box. Position and secure a 1/4-20 threaded rod (by others) to structural support above so that it passes through the hole drilled in the junction box and extends 1/2" below the finished ceiling line.

Step Three: Insert cable supplied in kit through ceiling coupler in kit and attach to 1/4-20 stud securely. Remove threaded canopy support ring from coupler and slide canopy then support ring over cable and up to finished ceiling line. Loosely tighten support ring to locate canopy in place.

Step Four: Raise luminaire to cable assembly and route cable through the center of the adjustable cable fitting loosening the locking cap enough to allow cable to enter fitting. Feed cable through the adjustable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto retainer stem.

NOTE: If it becomes necessary to re-adjust luminaire height, loosen locking cap and depress retainer stem while adjusting to desired position.

## FOR FULL SIZE IMAGE, SEE FIGURE 27 ON NEXT PAGE

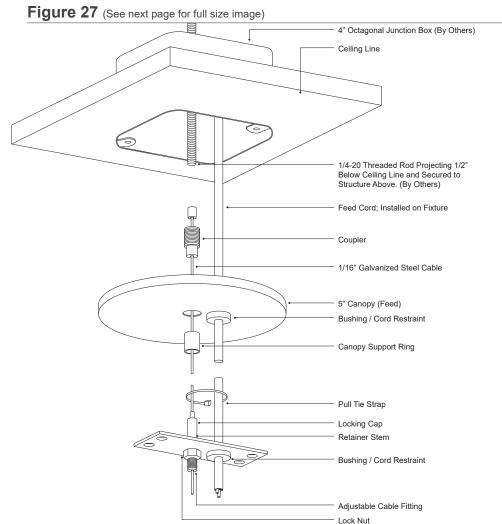
#### WARNING

# BE CERTAIN TO SUPPORT LUMINAIRE INDEPENDENTLY OF CABLES WHEN DEPRESSING RETAINER STEM.

**Step Five:** Remove canopy support ring and route feed cord from luminaire through grommeted hole in canopy and into junction box. Connect feed cord to incoming power feed wires within j-box with appropriate connectors and install cord restraint as illustrated.

**Step Six:** Raise canopy up to finished ceiling line and locate with canopy support ring. Attach supplied tie straps around feed cord and cable at minimum of 36" on center.

ENERGIZE AND CHECK FOR PROPER OPERATION.



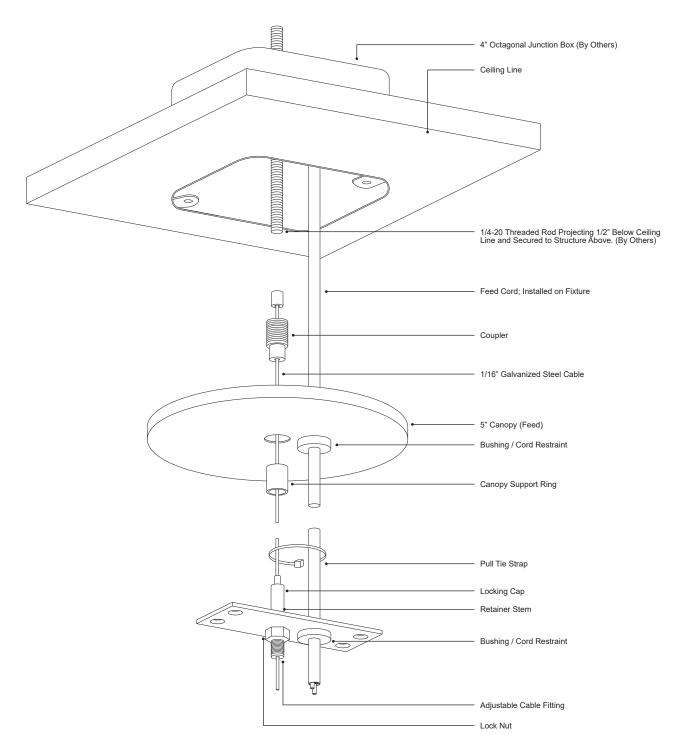
SAVE THESE INSTALLATION INSTRUCTIONS



# **Suspended Luminaire Installation Instructions (OFF-GRID)**

Off-Grid Mounting

## Figure 27 (Full Size Image)





## **Suspended Luminaire Installation Instructions (ON-GRID)**

On-Grid Mounting

#### NON FEED CABLE/CANOPY ASSEMBLY

Step One: Determine mounting centers from factory shop drawing or order processing specification sheet.

Step Two: Installation of IDS clip onto T-BAR at appropriate locations. (REF. STEP 1 AND FIGURE 28)

- A. Assemble 1/4-20 stud and clip. Start stud into recessed square hole, grasp clip in hand and depress TAB A with thumb. Pull stud into place and release TAB A.
- B. Separate clip into two parts by bending at TAB B.
- C. Place PART X on T-BAR and insert base tab on part into slot. Close PARTS X and Y together locking with TAB C.

Step Three: Secure IDS clip to structural support above with minimum #12 gauge support wire in accordance with local codes. (REF FIGURE 29)

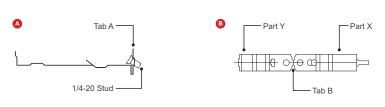
Step Four: Insert cable supplied in kit through ceiling coupler in kit and attach to 1/4-20 stud on IDS clip securely. Remove threaded canopy support ring from coupler and slide canopy then support ring over cable and up to finished ceiling line. Tighten support ring to secure canopy in place.

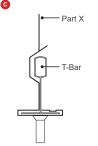
Step Five: Raise luminaire to cable assembly and route cable through the center of the adjustable cable fitting, loosening the locking cap enough to allow cable to enter fitting. Feed cable through the adjustable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto retainer stem.

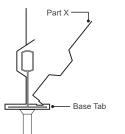
#### WARNING

#### BE CERTAIN TO SUPPORT LUMINAIRE INDEPENDENTLY OF CABLES WHEN DEPRESSING RETAINER STEM.

## Figure 28







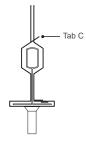
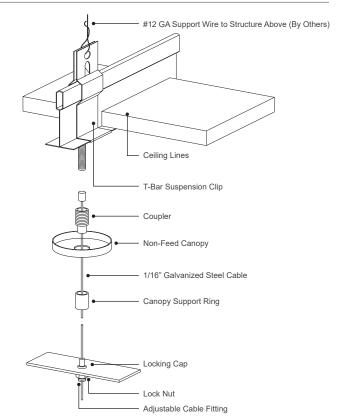


Figure 29





## Suspended Luminaire Installation Instructions (ON-GRID)

On-Grid Mounting

#### FEED CABLE/CANOPY ASSEMBLY

Step One: Determine mounting cable spacing centers from factory shop drawing or order processing specification sheet.

Step Two: Install 4" Drop Ceiling Junction Box (by others) over T-BAR (by others). Align the bottom edge of the Junction Box with the ceiling. Connect the conduit from the building power to the Junction Box. Attach the Cross Bar to the Junction Box.

Step Three: Insert the 1/16" steel cable supplied in the kit through the Coupler in the kit. Remove threaded Canopy Support Ring from Coupler. Attach Coupler to 1/4-20 stud on Cross Bar securely.

Step Four: Remove the threaded Canopy Support Ring from Coupler. Slide 5" Canopy then Support Ring over the Coupler up to finished ceiling line. Tighten support ring to locate canopy in place.

Step Five: Raise luminaire to mounting/feed assembly and route the 1/16" steel cable through the center of the Adjustable Cable Gripper fitting loosening the locking cap enough to allow the 1/16" steel cable to enter fitting. Feed the 1/16" steel cable through the Adjustable Cable Gripper fitting until the desired mounting height is attained. The luminaire will be retained at the last point of adjustment. Tighten Locking Cap onto retainer stem.

NOTE: If it becomes necessary to re-adjust luminaire height, loosen locking cap, and depress retainer stem while adjusting to the desired position

#### FOR FULL SIZE IMAGE. SEE FIGURE 30 ON NEXT PAGE

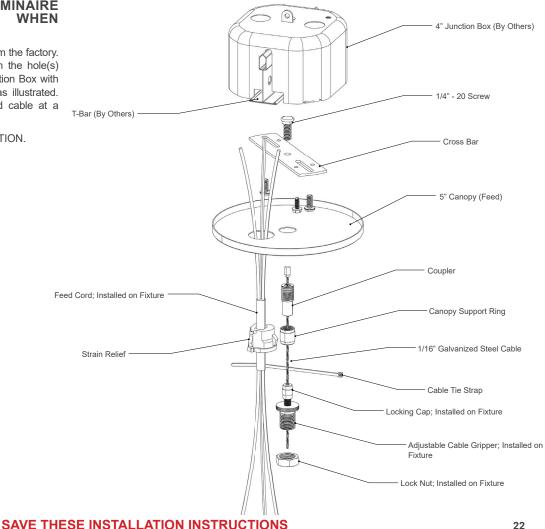
#### **WARNING**

#### BE CERTAIN TO SUPPORT LUMINAIRE INDEPENDENTLY OF CABLES **DEPRESSING RETAINER STEM.**

Step Six: SJT Cord comes installed on Fixture from the factory. Route feed power cord(s) from luminaire through the hole(s) in the canopy. Make wire connections within Junction Box with appropriate connectors and install Strain Relief as illustrated. Attach supplied tie straps around feed cord and cable at a minimum of 12" on center.

ENERGIZE AND CHECK FOR PROPER OPERATION.

Figure 30 (See next page for full size image)





# **Suspended Luminaire Installation Instructions (ON-GRID)**

On-Grid Mounting

# Figure 30 (Full Size Image)

