

# H04 Indirect/Direct with Mitered Corners Installation Instructions

## Overview

### NOTES

- Ensure that reflectors do not get dirty or damaged.
- If luminaire contains a sensor refer to the Sensor Addendum.
- All power connections should be installed according to local/national codes by a Certified Electrician.
- This installation requires **proper support** as each luminaire is being installed.
- **DO NOT attempt to join luminaires together on the floor.** Damage may result when lifted.



HELPFUL  
VIDEOS



Effortless  
Access



0-10V  
Dimming



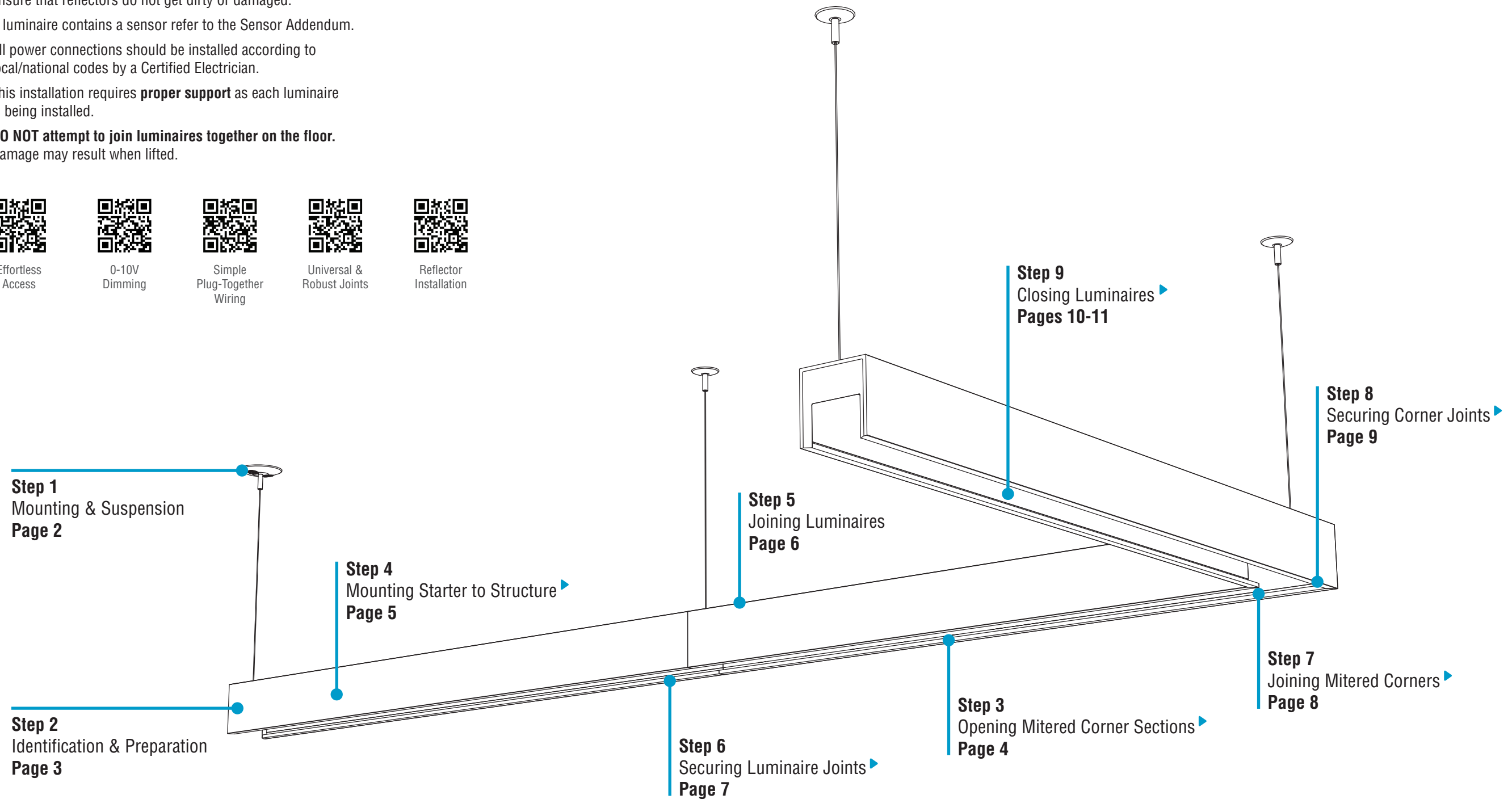
Simple  
Plug-Together  
Wiring



Universal &  
Robust Joints



Reflector  
Installation



# H04 Indirect/Direct with Mitered Corners Installation Instructions

## Step 1 - Mounting & Suspension

### Mounting Options

#### Option 1

##### T-Bar Mounting - GridBox™, Caddy Clips

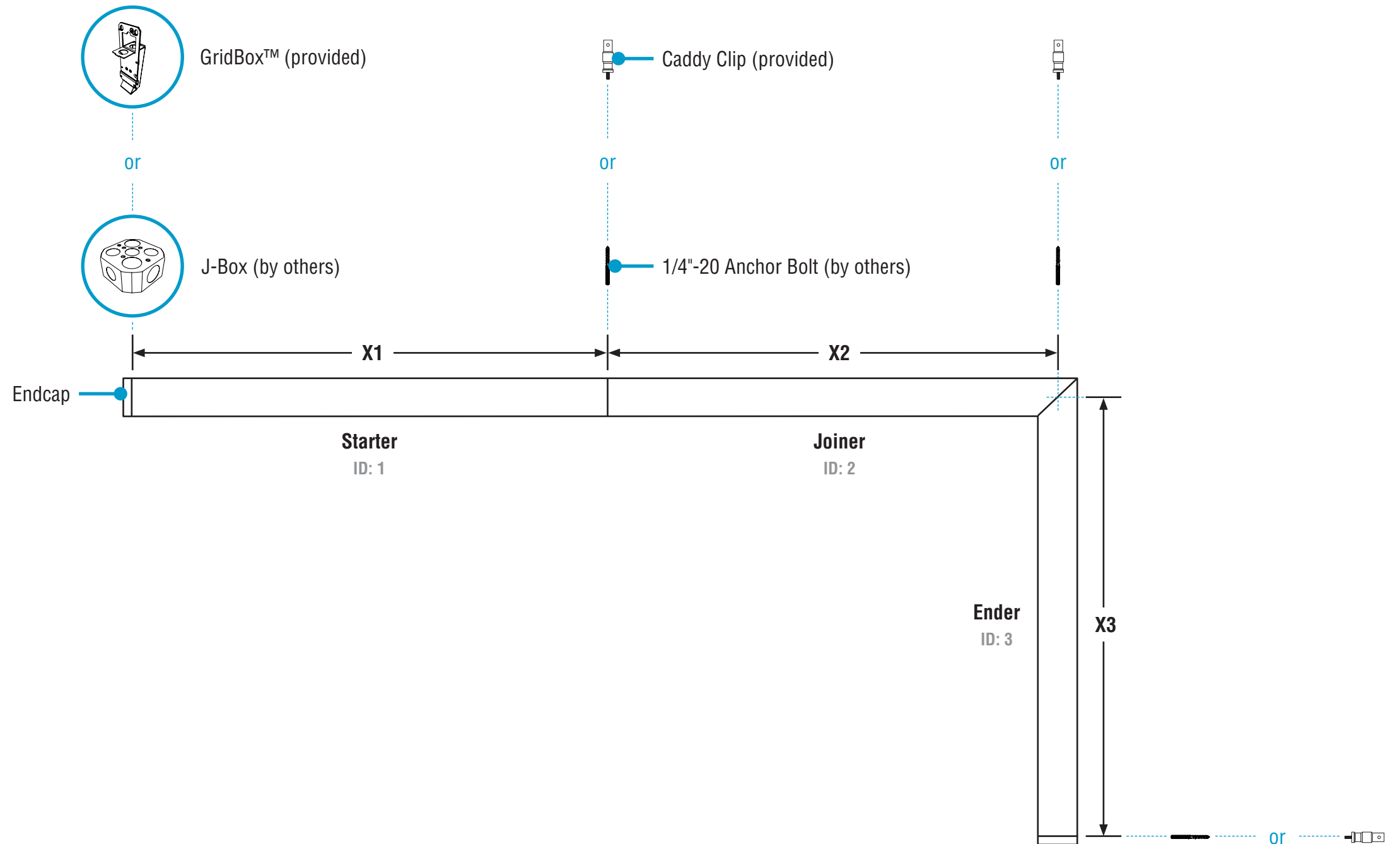
- Install GridBox™ and electrical conduit at feed locations.
- Install caddy clips at mounting point locations.
- All caddy clips are to be secured to structure, per local building codes.

#### Option 2

##### Drywall (C4), or other hard surfaces\* - J-Box, Anchor Bolts

- Install J-Box and electrical conduit at feed locations.
- Install anchor bolts at mounting point locations.
- All anchor bolts are to be secured to structure, per local building codes.

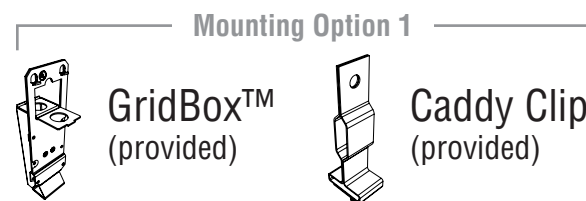
\* Other hard surfaces include: wood, sheet metal panels, steel beams, concrete or masonry. Use hardware appropriate for each surface material type.



### Suspension Locations

**X** = Luminaire section length  
(**X** Measurements **do not include** endcaps)

Refer to Record Drawings and building plans to determine exact mounting, suspension points, and power feed locations.



# HO4 Indirect/Direct with Mitered Corners Installation Instructions

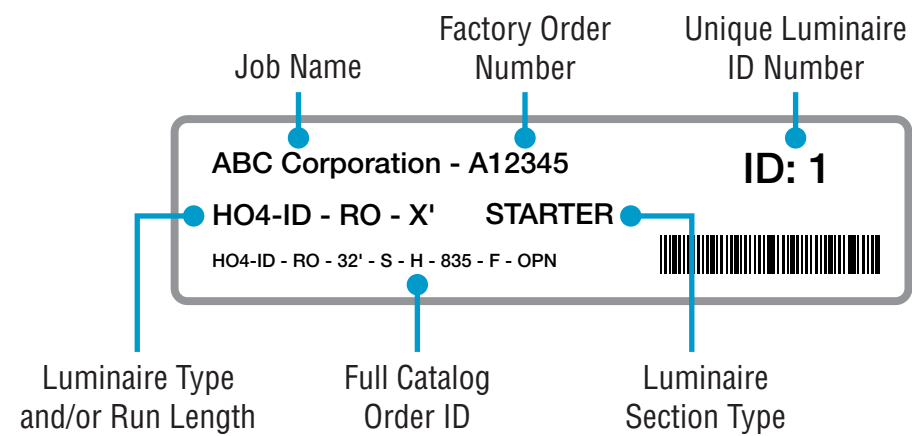
## Step 2 - Identification & Preparation

### A. Identify Luminaires



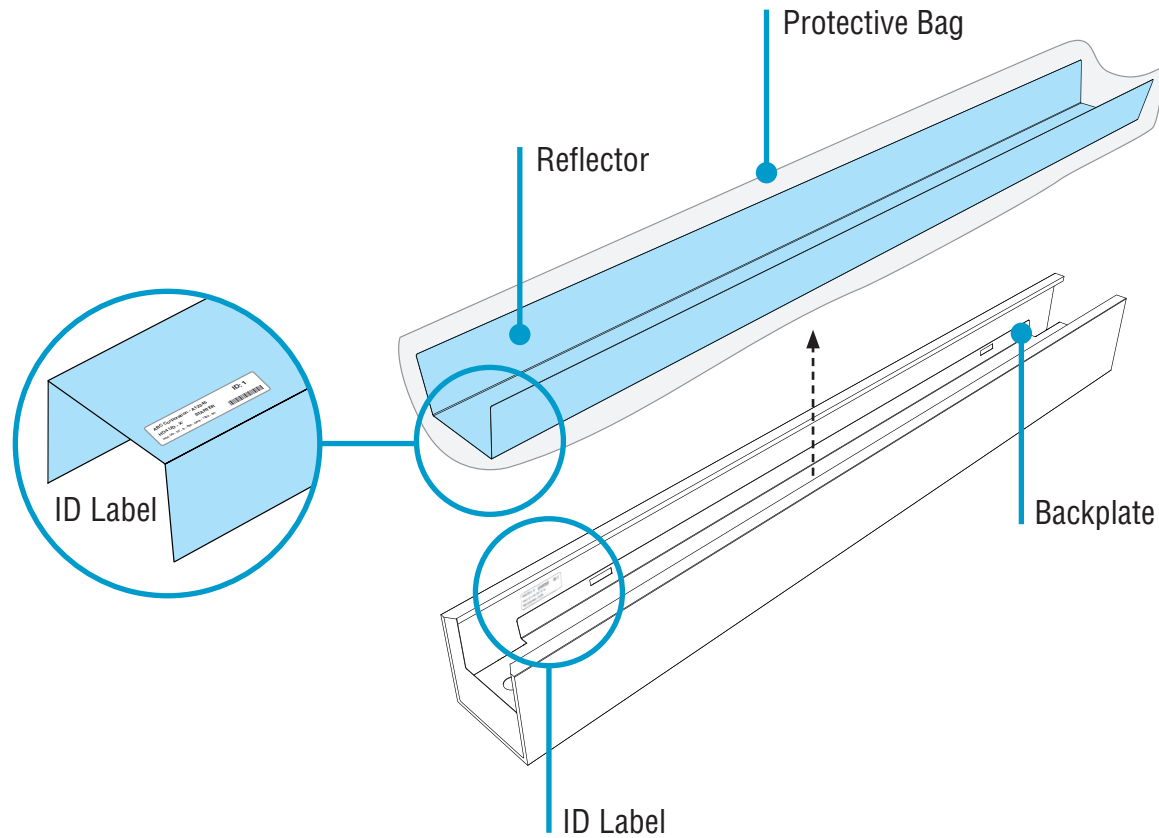
**CAUTION**

Arrange luminaires in order at their install locations, according to ID#.



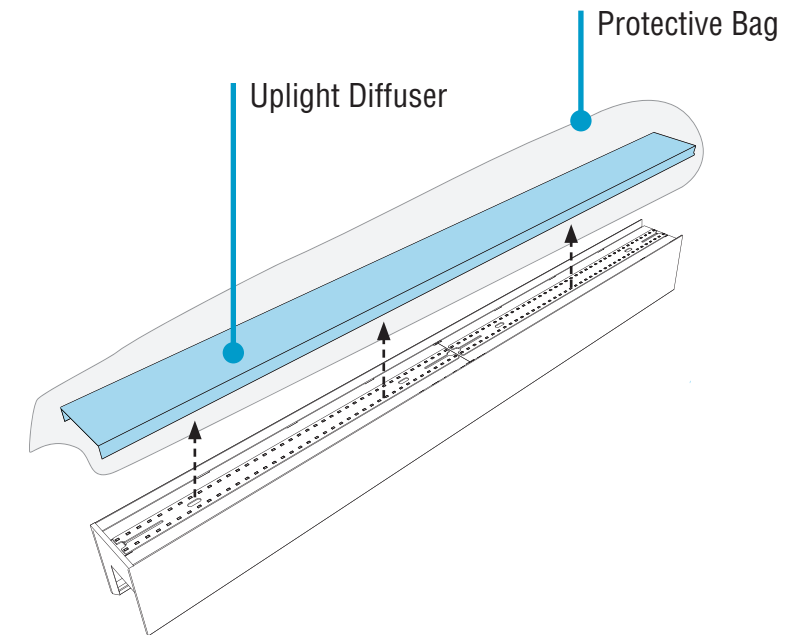
- Identify all luminaires by their ID label that can be found on the box, on the reflector, and inside the luminaire.
- NOTE:** Exact location of labels in these areas may vary.
- Remove luminaires from box.
- Refer to Record Drawings that can be found in the hardware kit.

### B. Remove Reflector Top-Down View



- Carefully remove all reflectors, keeping them inside their protective bags.
- Set aside all reflectors to prevent from getting dirty or damaged.
- Ensure reflectors can be clearly identified back to its corresponding luminaire.

### C. Remove Uplight Diffuser Top-Down View



- Carefully remove all upright diffusers, keeping them inside their protective bags.
- Set aside to prevent from getting dirty or damaged.

### Kitted Hardware

- Finelite has provided items listed here, with their Finelite part numbers. These items can be found in separate boxes shipped with the luminaire.
- Account for all parts and set aside until they are needed.
- All other hardware needed for this installation will be by others.

#### Mounting Option 1

 <b>GridBox™</b> Part# 89159  <b>Dual GridBox™</b> Part# 89199 Mounting & Suspension p. 2, Step 1	 <b>Caddy Clip</b> C1 Ceiling - Part# 94001 C2 Ceiling - Part# 94020 C3 Ceiling - Part# 94029 Mounting & Suspension p. 2, Step 1
 <b>3-1/2" Canopy</b> Part# 89191  <b>3-1/2" Dual Feed Canopy</b> Part# 89192 Mounting Starter to Structure p. 5, Step 4 Joining Luminaires p. 6, Step 5 Joining Mitered Corners p. 8, Step 7	 <b>2" T-Bar Support Canopy</b> Part# 89193 Mounting Starter to Structure p. 5, Step 4 Joining Luminaires p. 6, Step 5 Joining Mitered Corners p. 8, Step 7

#### Mounting Option 2

 <b>2" Drywall Support Canopy</b> Part# 94017 Mounting Starter to Structure p. 5, Step 4 Joining Luminaires p. 6, Step 5 Joining Mitered Corners p. 8, Step 7	 <b>5" Canopy</b> Part# 94085  <b>5" Dual Feed Canopy</b> Part# 94145 Mounting Starter to Structure p. 5, Step 4 Joining Luminaires p. 6, Step 5 Joining Mitered Corners p. 8, Step 7
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**Cable Bushing**  
 Part# 94014  
  
**Aircraft Cable**  
 50" - Part# 94515-12 (Std.)  
 100" - Part# 94515-14  
 150" - Part# 94515-18  
  
**Cable Gripper**  
 Part# 68129  
 Mounting Starter to Structure  
 p. 5, Step 4  
 Joining Luminaires  
 p. 6, Step 5  
 Joining Mitered Corners  
 p. 8, Step 7

  
**Yoke Bracket**  
 Part# 45042  
  
**#10-32 x 5/8" Screw**  
 Part# 94144  
 Joining Luminaires  
 p. 6, Step 5  
 Securing Luminaire Joints  
 p. 7, Step 6  
 Securing Corner Joints  
 p. 9, Step 8

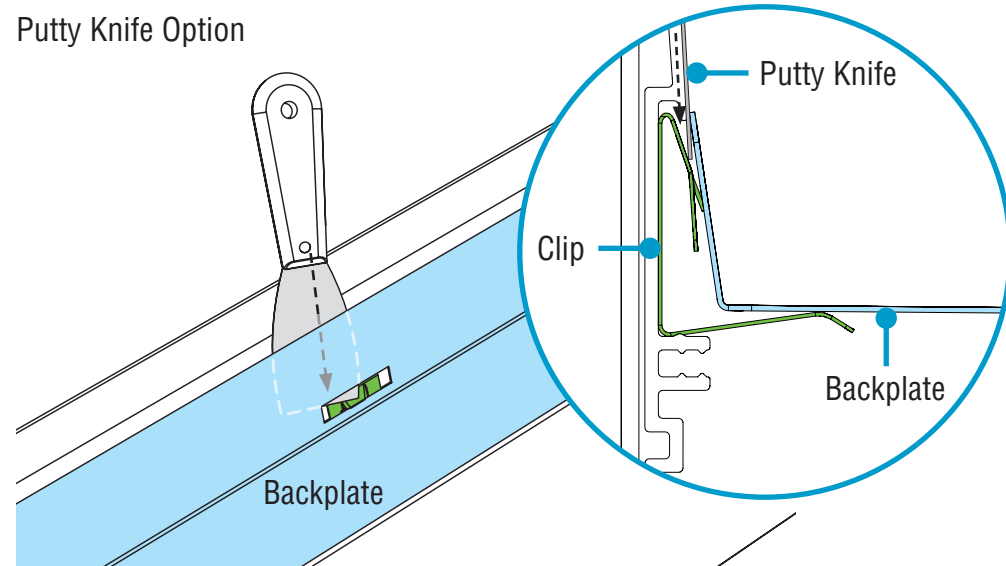
  
**Safety Crimp**  
 Part# 94514  
 Closing Luminaires  
 p. 10, Step 9  
  
**Slip Ring w/ Set Screw**  
 Part# 94015  
 Mounting Starter to Structure  
 p. 5, Step 4  
 Joining Luminaires  
 p. 6, Step 5  
 Joining Mitered Corners  
 p. 8, Step 7

# H04 Indirect/Direct with Mitered Corners Installation Instructions

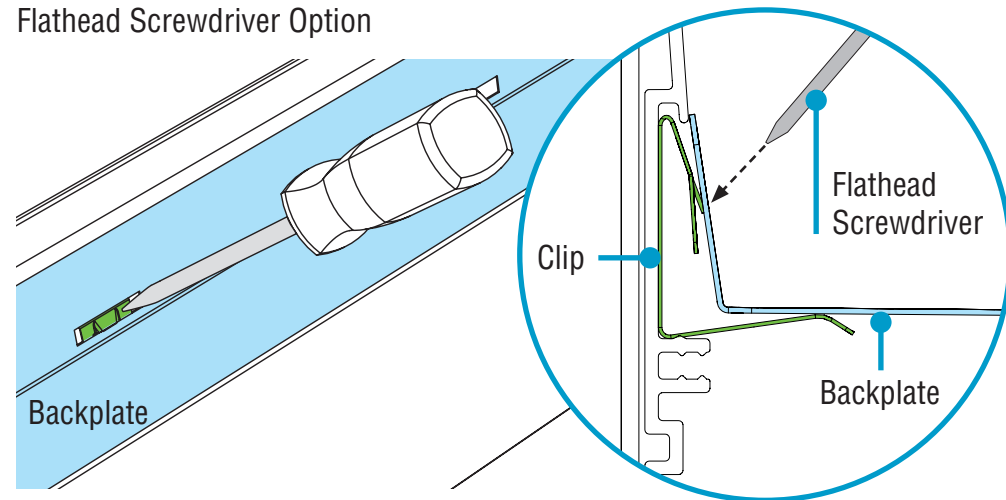
## Step 3 - Opening Mitered Corner Sections

### A. Release Mitered Corner Backplates Top-Down View

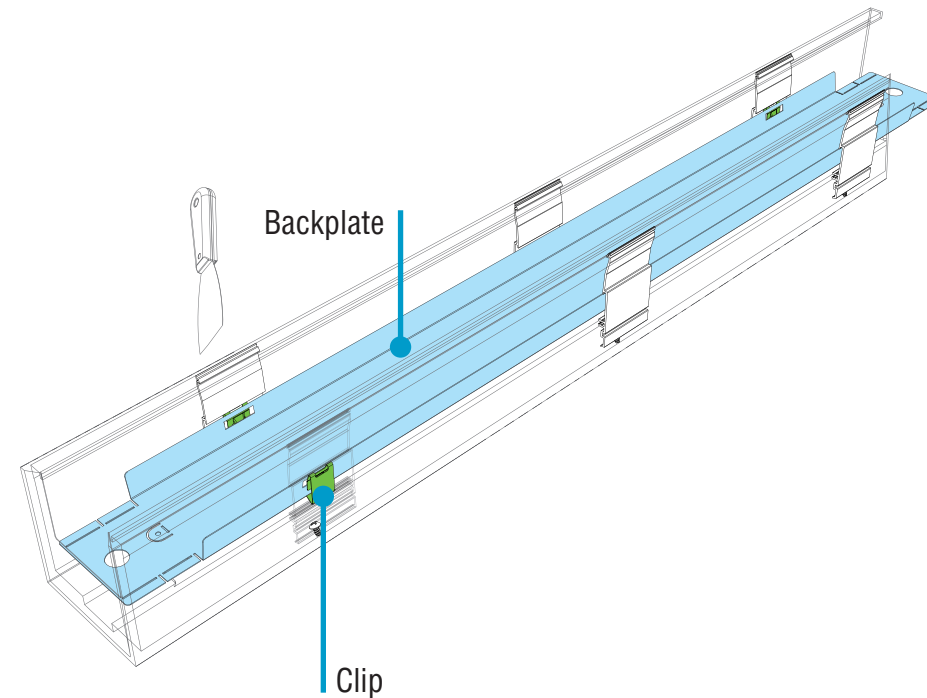
Putty Knife Option



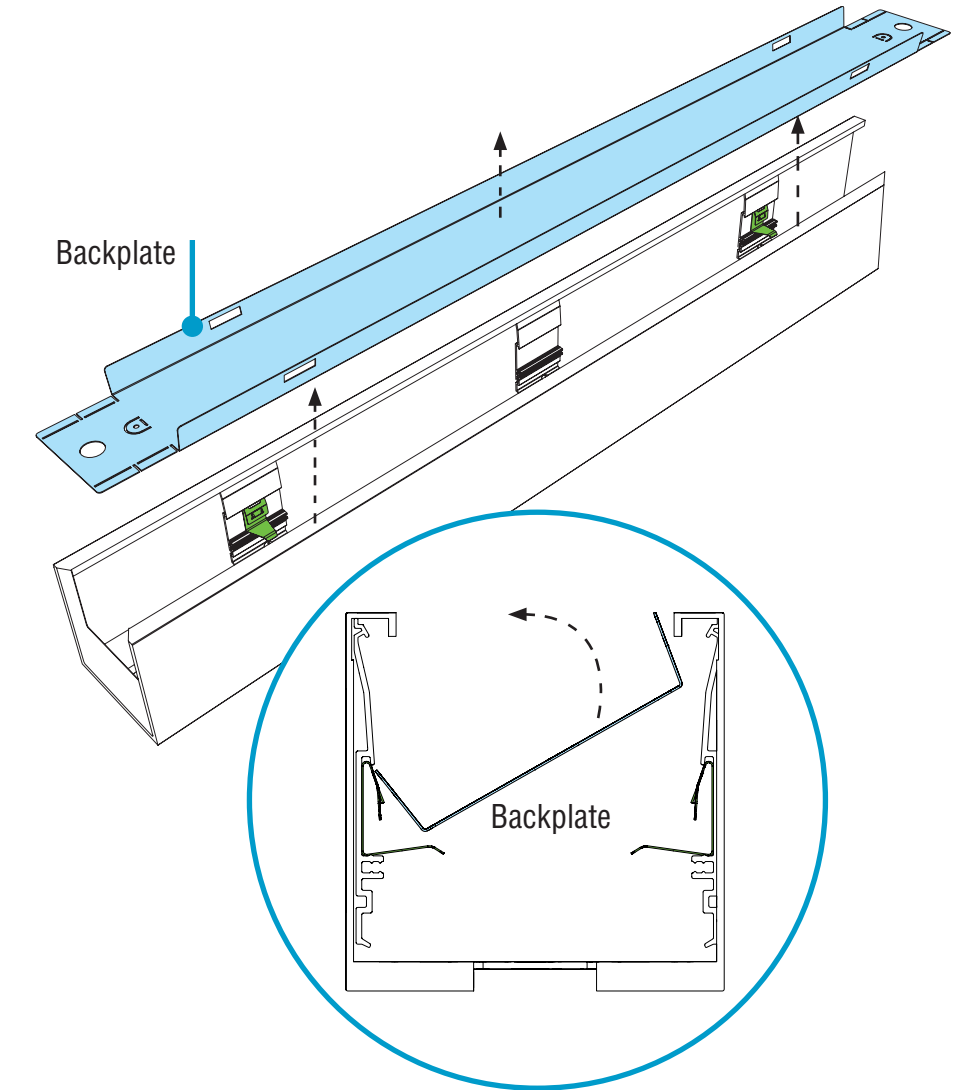
Flathead Screwdriver Option



- Open backplates at mitered corner sections only.
- Release the mitered corner backplates from clips by sliding the blade of a putty knife behind backplate edges.
- To use a flathead screwdriver: From inside mitered corner backplate, press end of screwdriver against the clip until the backplate is released.



### B. Remove Mitered Corner Backplates Top-Down View



- Rotate mitered corner backplate out of luminaire and set aside to prevent from getting dirty or damaged.

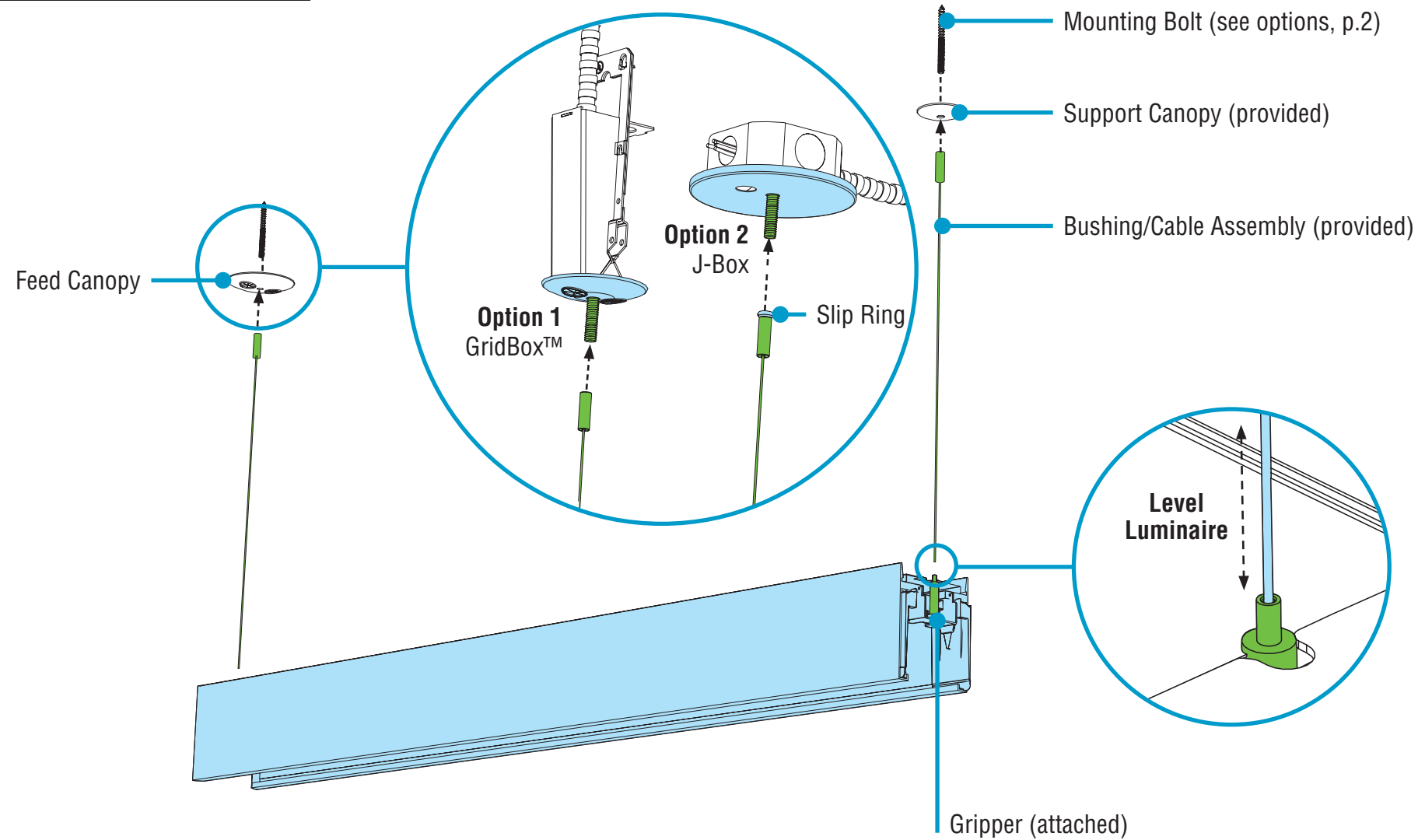


Effortless  
Access

# H04 Indirect/Direct with Mitered Corners Installation Instructions

## Step 4 - Mounting Starter to Structure

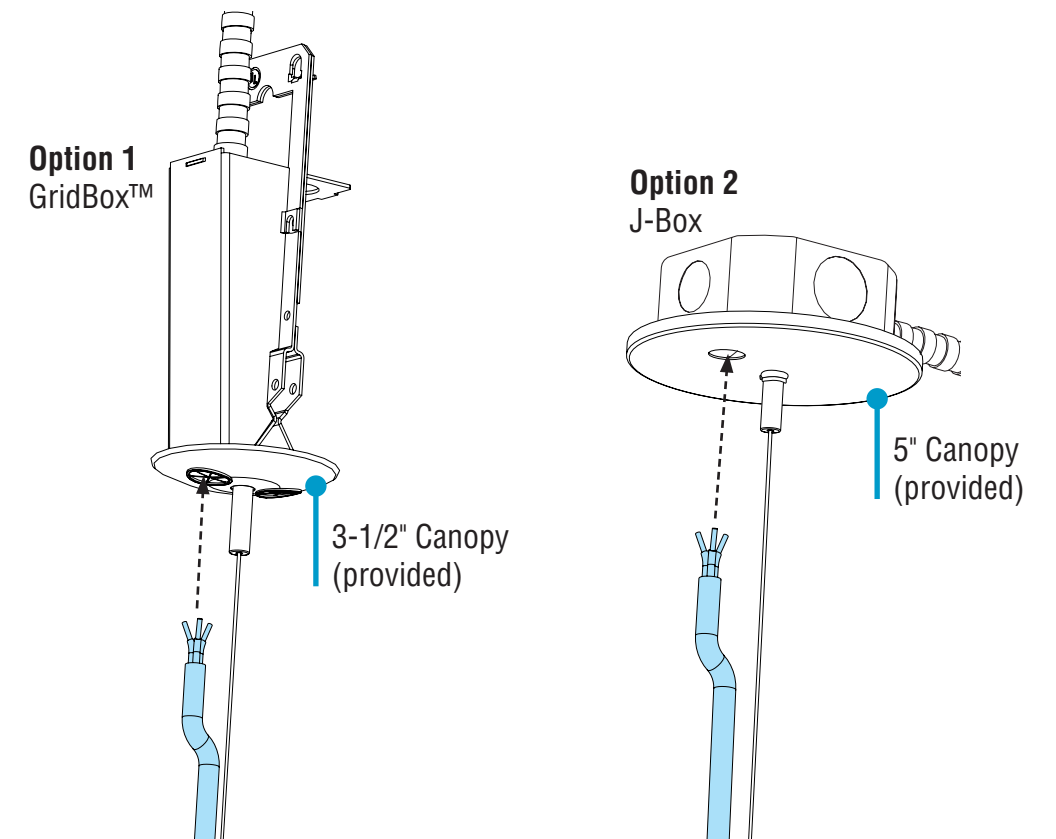
### A. Mount Starter to Structure Bottom-Up View



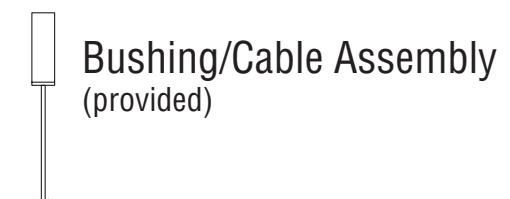
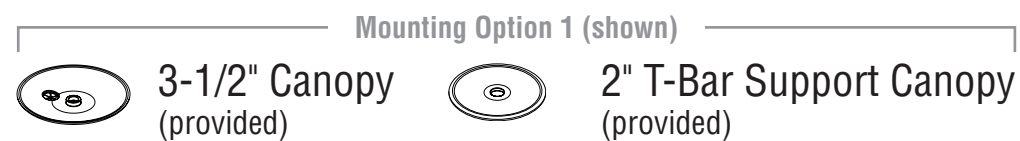
- Slide canopy appropriate for electrical type options onto mounting bolt (anchor bolt or caddy clip bolt).
- **(Option 2 only)** Slide slip ring onto bushing/cable assembly and thread onto mounting bolts. Secure slip ring with set screw at both mounting locations
- Thread the bushing/cable assembly onto mounting bolts.
- While properly supporting luminaire, maneuver luminaire to ceiling.
- Locate grippers at luminaire ends and feed end of aircraft cable through it by depressing top of gripper.

### B. Make Electrical Connections Bottom-Up View

WIRING LEGEND		
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC



- **(Option 1)** Feed power cord through the 3-1/2" canopy and connect wires inside the GridBox™.
- **(Option 2)** Feed power cord through the 5" canopy and connect wires inside the J-Box.
- **CRITICAL:** If installing mitered corner to starter, **PROCEED TO STEP 7, PAGE 8.**



0-10V Dimming



# H04 Indirect/Direct with Mitered Corners Installation Instructions

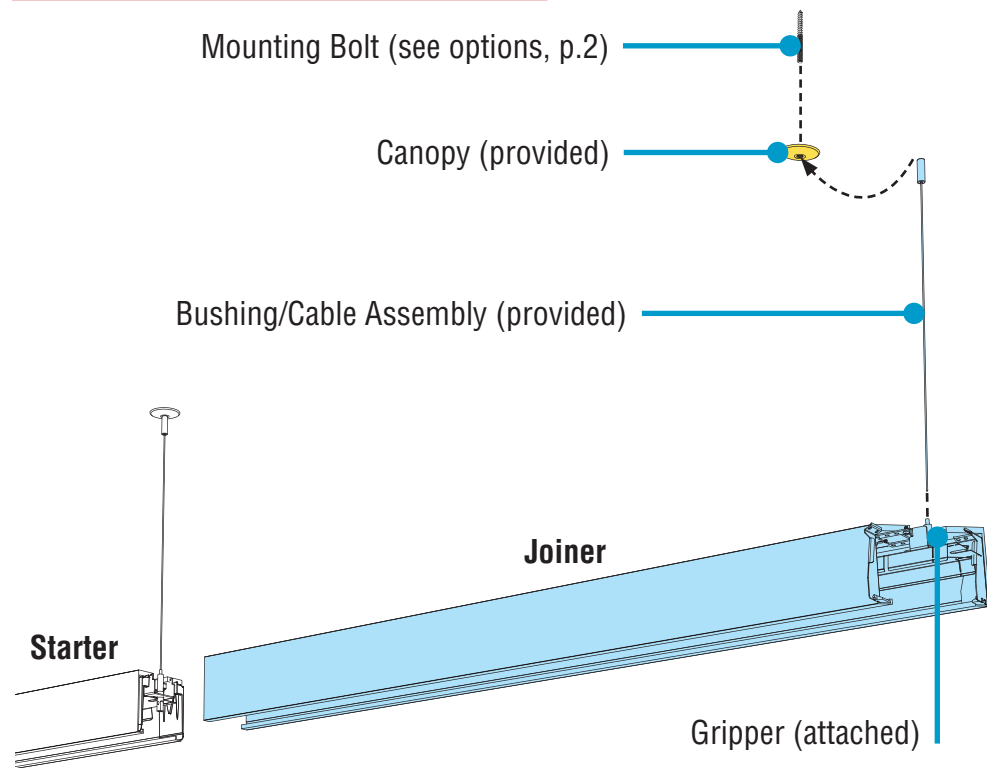
## Step 5 - Joining Luminaires

### A. Mount Joiner to Structure Bottom-Up View



**CAUTION**

**DO NOT** attempt to join luminaires together on the floor. Damage may result when lifted. Follow these instructions.



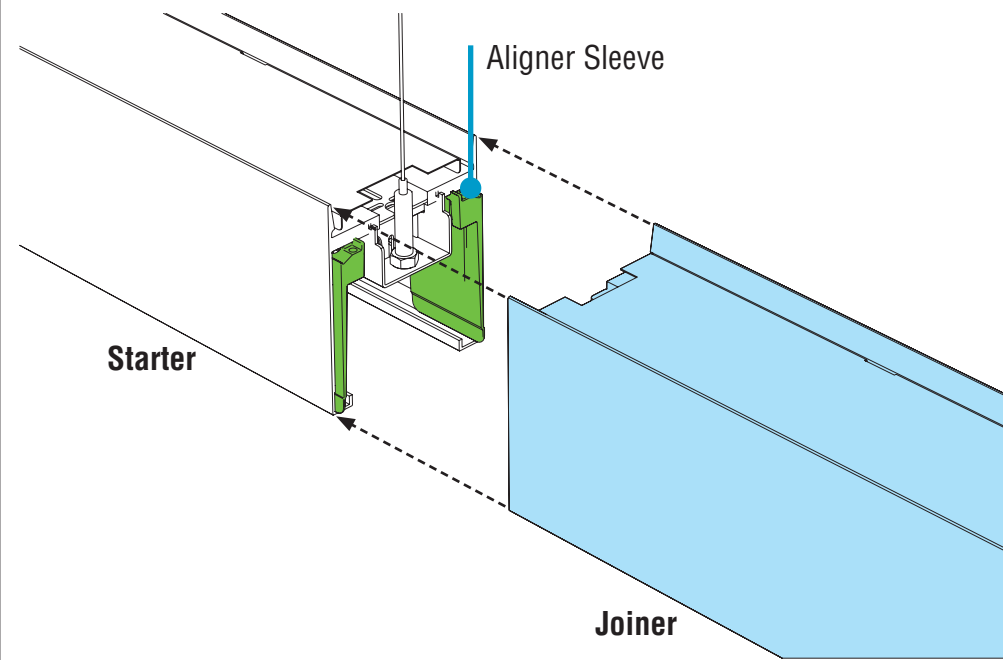
- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 4 of Sensor Addendum before joining luminaires.
- For the joiner luminaire, slide canopy appropriate for electrical type onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting bolt.
- While properly supporting luminaire, maneuver luminaire to ceiling.
- Locate gripper at luminaire ends and feed aircraft cable through it by depressing top of gripper.
- Level luminaires to desired height by depressing top of grippers to adjust cable lengths.

### B. Join Luminaires Top-Down View



**CAUTION**

Once luminaires are aligned together, **joiner luminaire is not yet secure**. Ensure it does not slide off as it rests on the starter luminaire.



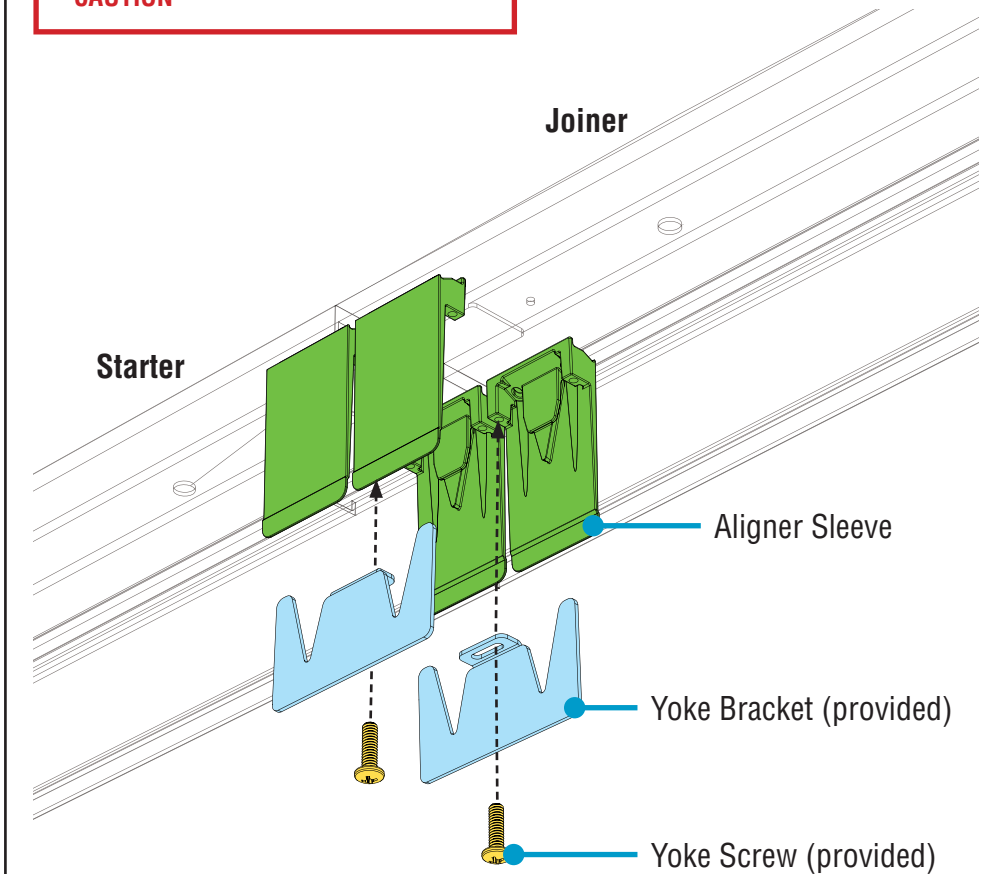
- Align joiner with aligner sleeves on starter and slide together. Be careful not to damage any wiring.
- If necessary, **lift** both luminaires, then slide together.

### C. Secure Joint with Yoke Brackets Bottom-Up View



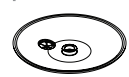
**CAUTION**

**DO NOT** move or remove Aligner Sleeves!

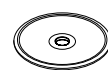


- Install yoke brackets, but **DO NOT tighten**.
- Level joining luminaire by raising or lowering the far end of the joining luminaire.

#### Mounting Option 1 (shown)



3-1/2" Canopy (provided)

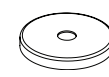


2" T-Bar Support Canopy (provided)

#### Mounting Option 2



5" Canopy (provided)



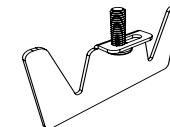
2" Drywall Support Canopy (provided)



Slip Ring w/ Set Screw (provided)



Bushing/Cable Assembly (provided)

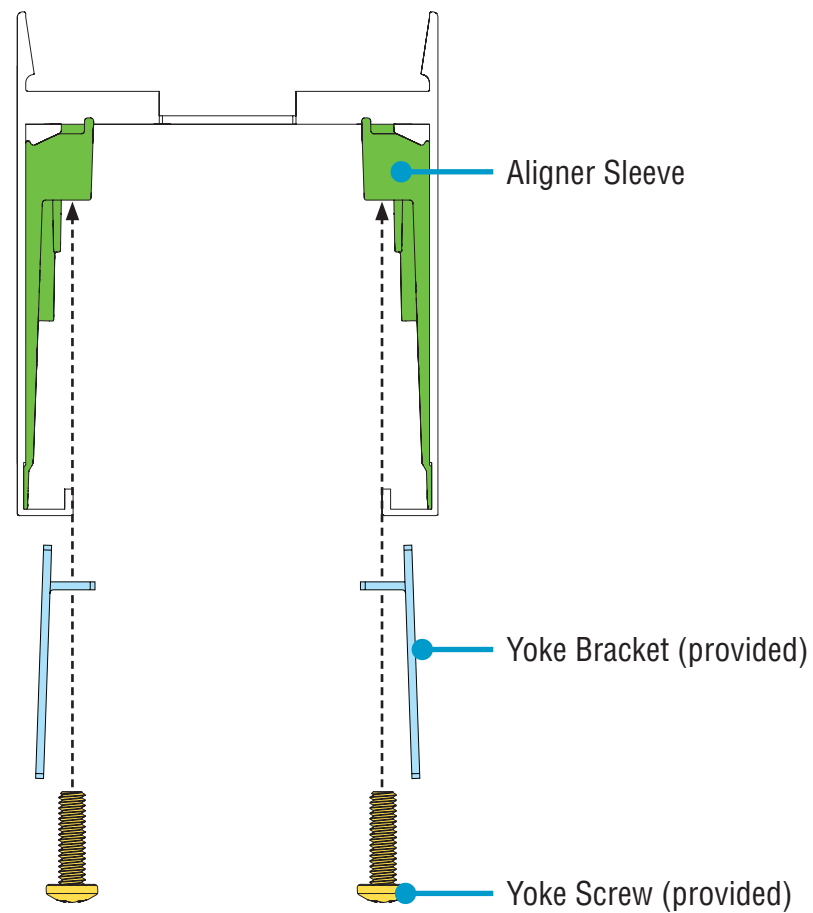


Yoke Bracket w/ Screw #10-32 x 5/8" (provided)

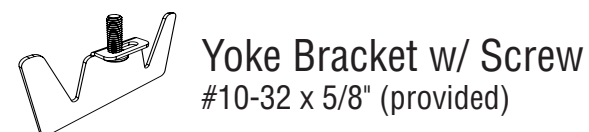
# H04 Indirect/Direct with Mitered Corners Installation Instructions

## Step 6 - Securing Luminaire Joints

### A. Secure Yoke Brackets Side View

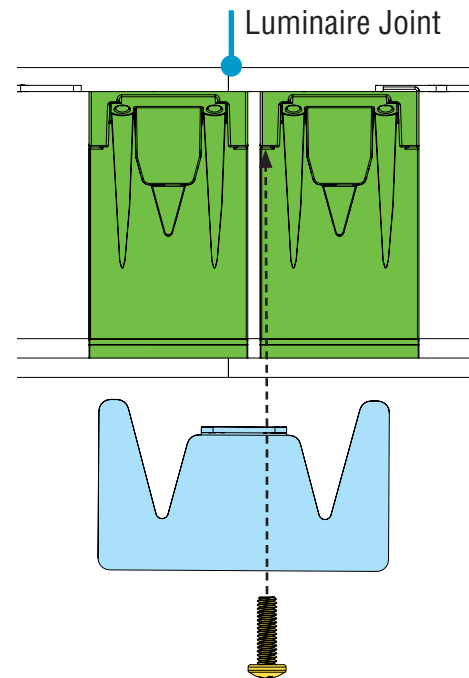


- Ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Tighten yoke screws<sup>1</sup> until joint seam of luminaires is closed.

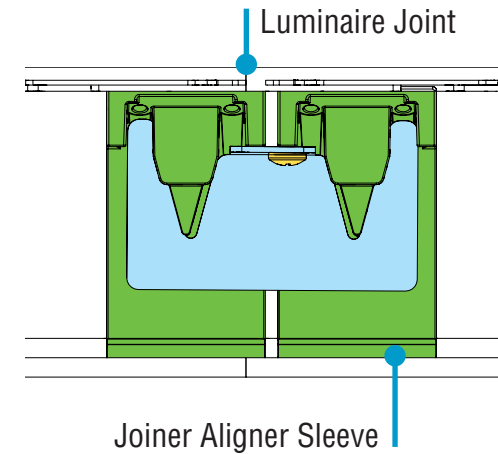


<sup>1</sup> Screwdriver with 6" bit required.

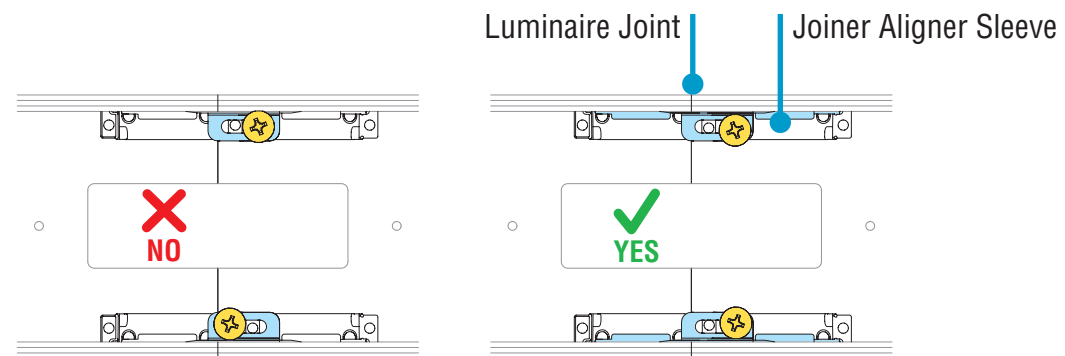
### IN ALIGNMENT



### CORRECTLY INSTALLED

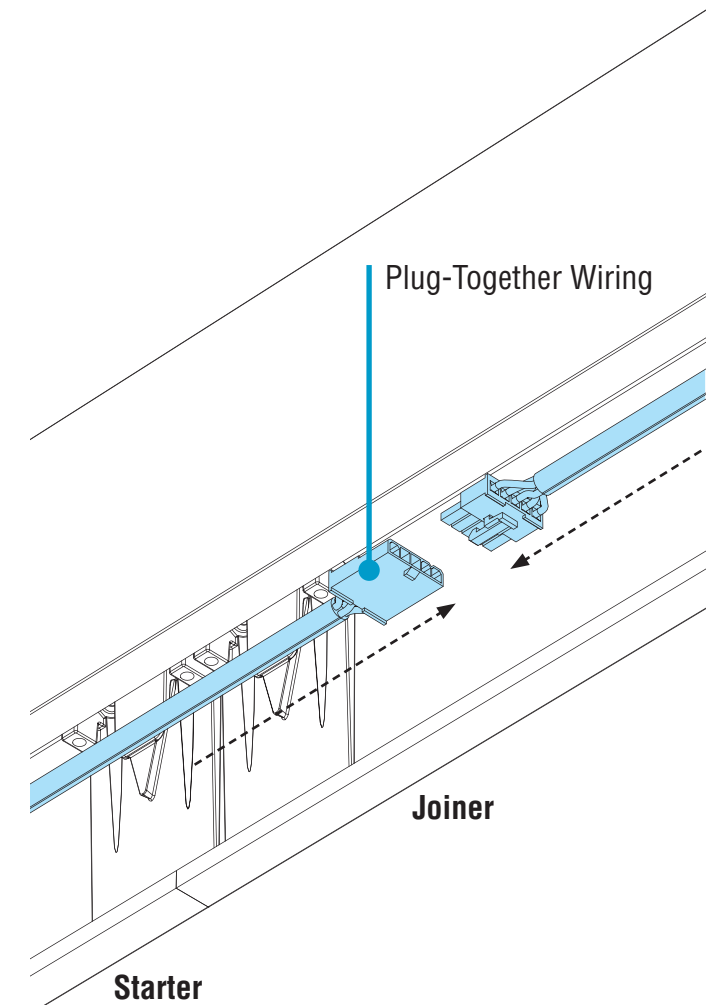


### YOKE SCREW ALIGNMENT Bottom-Up View



- **NOTE:** Yoke screws should be installed directly across from each other, not diagonally, and in holes furthest from the joint line. One yoke screw per one yoke bracket.

### B. Make Electrical Connections Bottom-Up View



- Connect plug-together wiring.



Simple  
Plug-Together  
Wiring

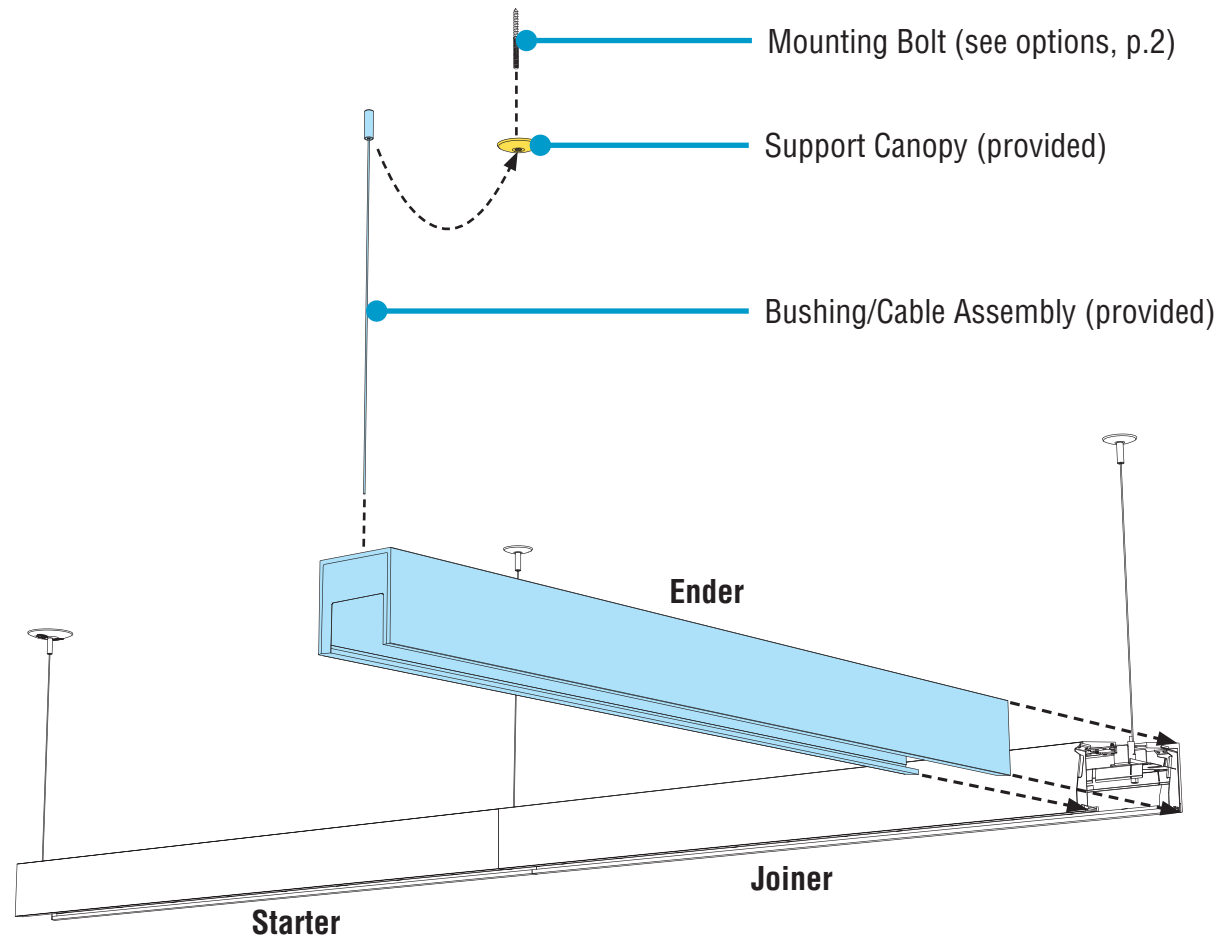


Universal &  
Robust Joints

# H04 Indirect/Direct with Mitered Corners Installation Instructions

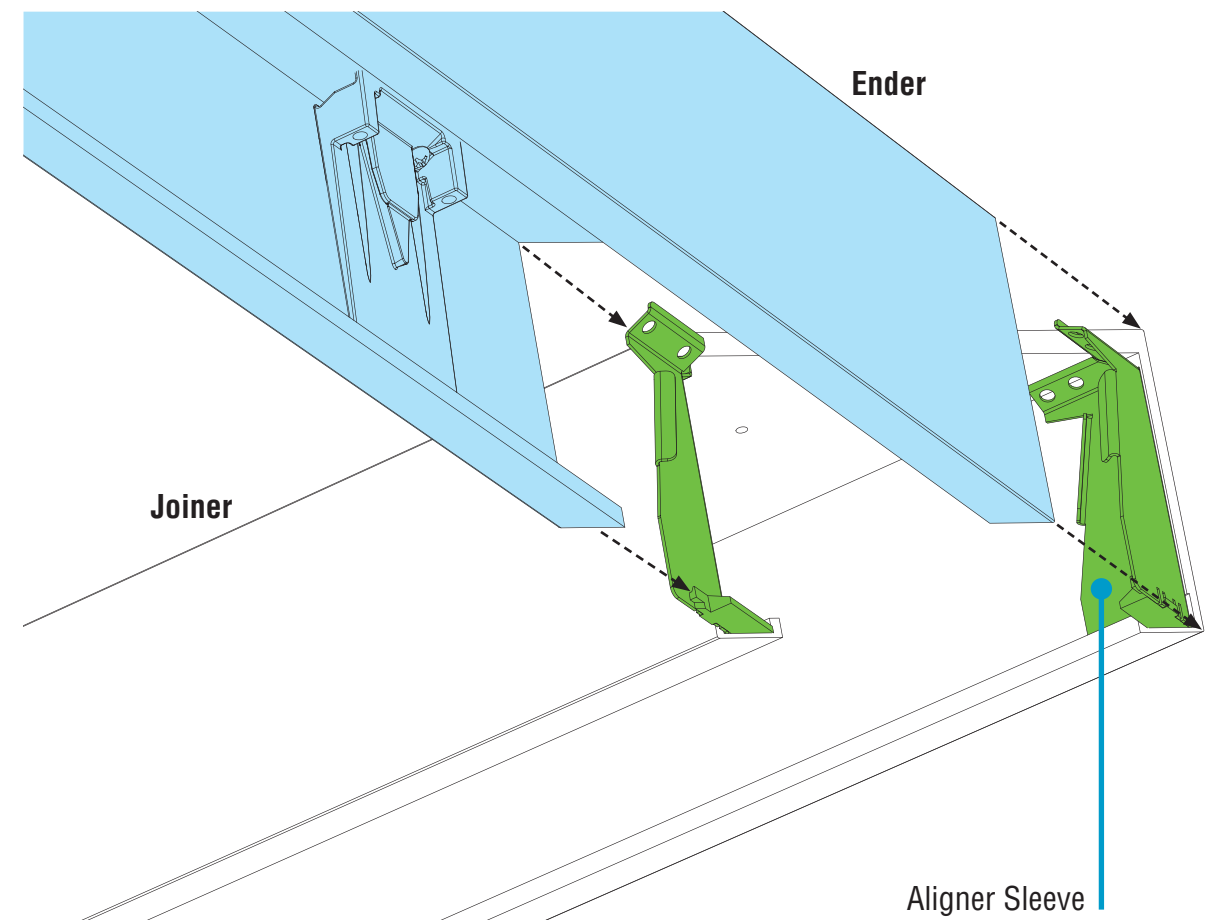
## Step 7 - Joining Mitered Corners

### A. Mount Ender to Structure Bottom-Up View

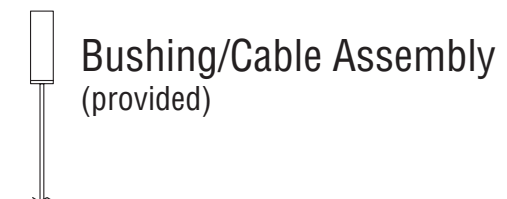
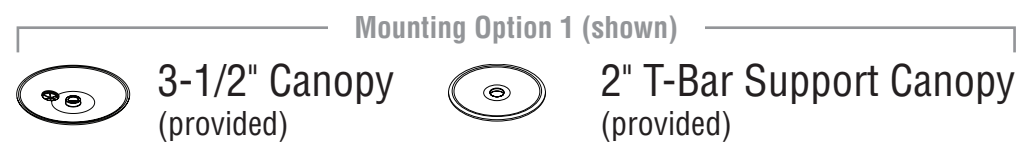


- For the mitered ender luminaire, slide canopy onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting bolt.
- While properly supporting luminaire, maneuver luminaire to ceiling.
- Locate gripper at luminaire ends and feed aircraft cable through it by depressing top of gripper.

### B. Join Mitered Corners Bottom-Up View



- Align mitered ender luminaire with aligner sleeves on joiner and slide together. Be careful not to damage any wiring.
- If necessary, **lift** both luminaires, then slide together.

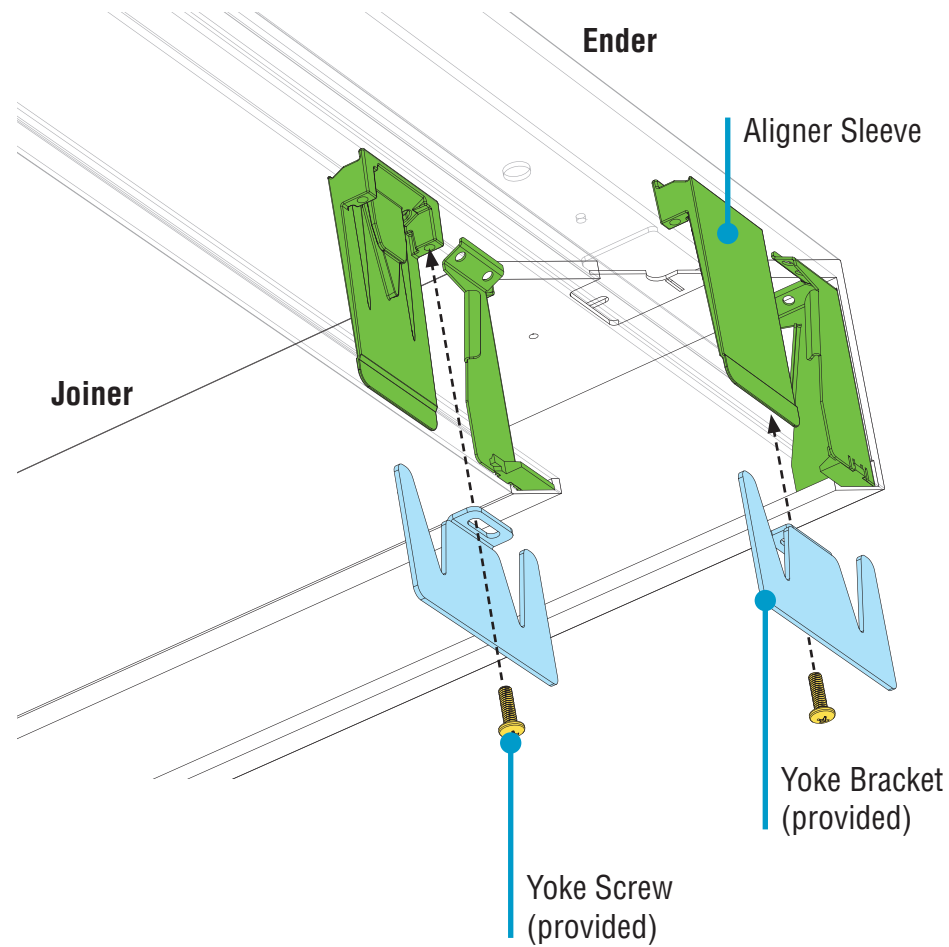




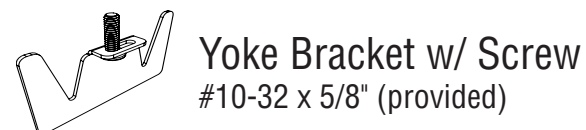
# H04 Indirect/Direct with Mitered Corners Installation Instructions

## Step 8 - Securing Corner Joints

### A. Secure Joint with Yoke Brackets Bottom-Up View

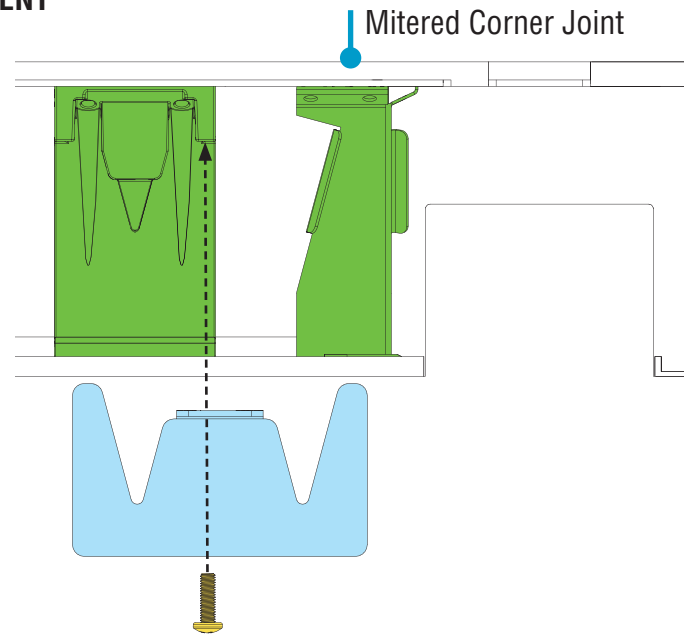


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by threading (but not yet tightening) yoke screws through yoke brackets and into the aligner sleeves.
- Level all luminaires to desired height by depressing top of grippers to adjust cable lengths.
- Tighten yoke screws<sup>1</sup> until joint seam of luminaires is closed.

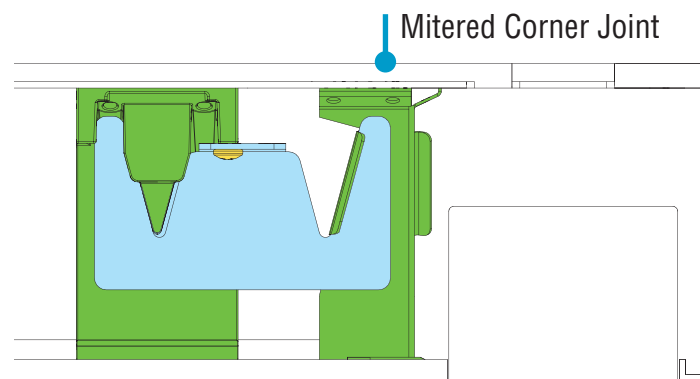


<sup>1</sup> Screwdriver with 6" bit required.

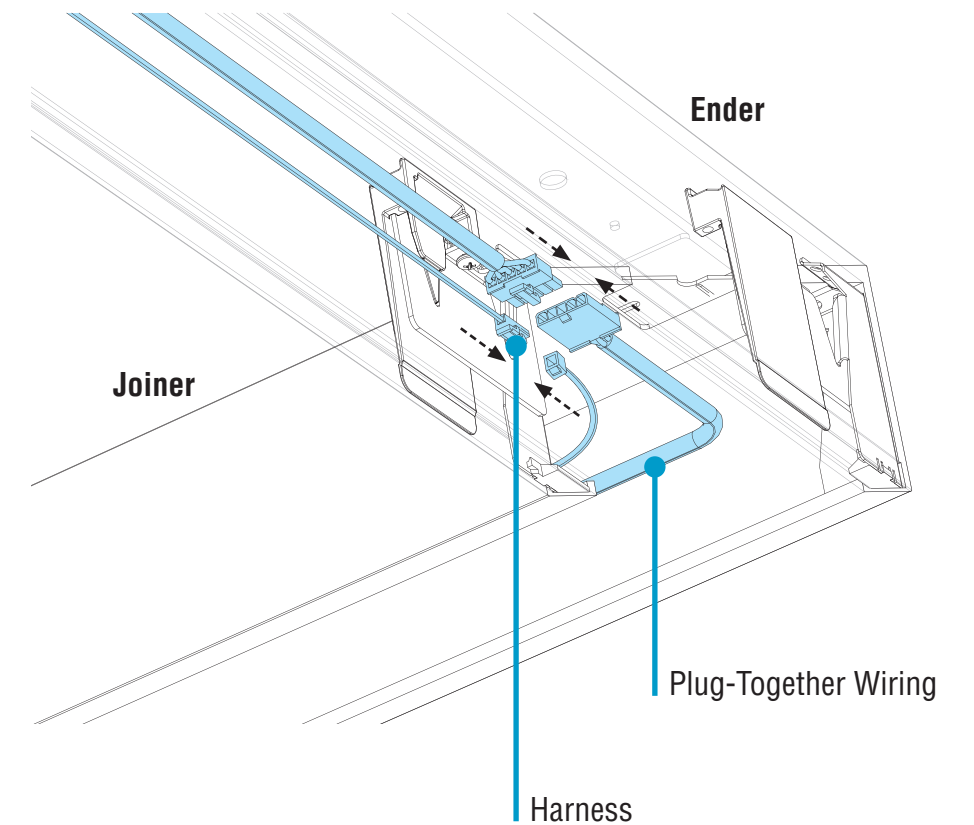
### IN ALIGNMENT



### CORRECTLY INSTALLED



### B. Make Electrical Connections Bottom-Up View



- Connect plug-together wiring and LED harness.

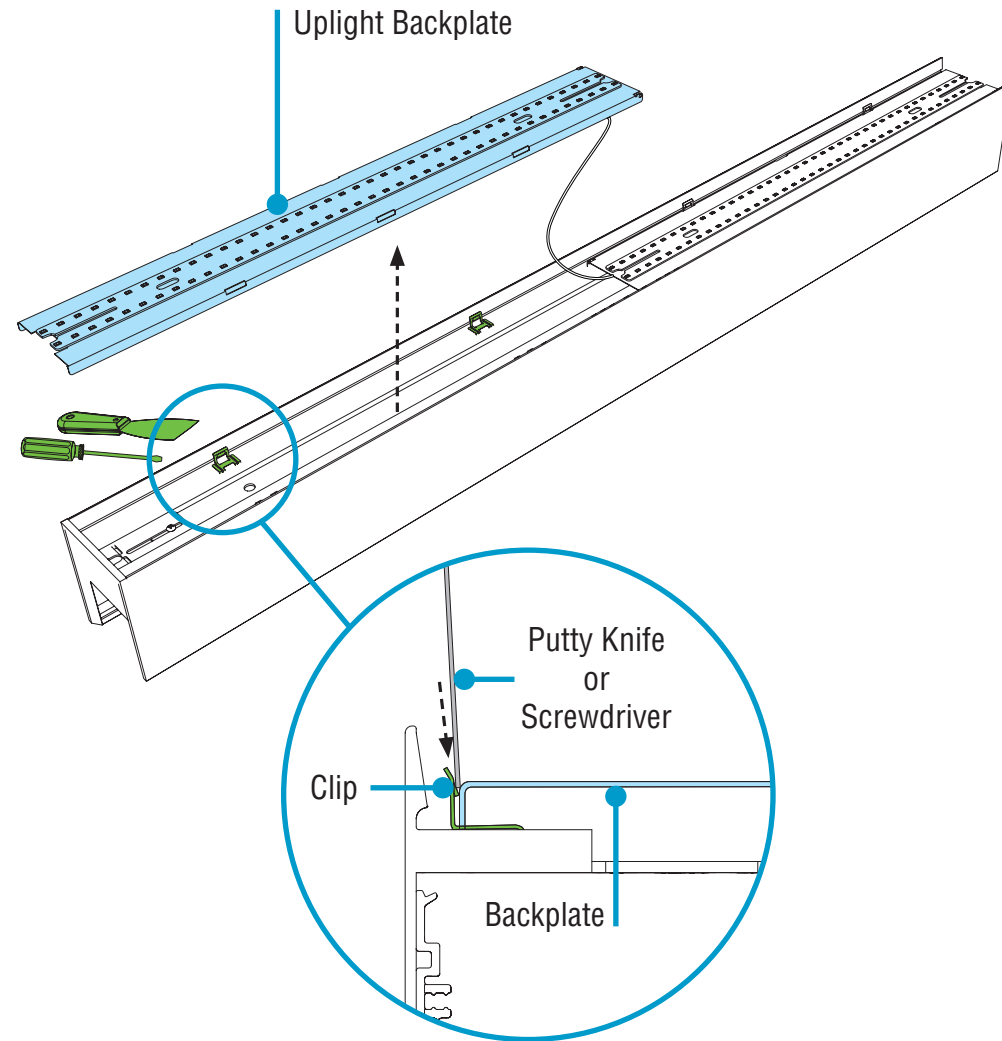


Simple  
Plug-Together  
Wiring

# H04 Indirect/Direct with Mitered Corners Installation Instructions

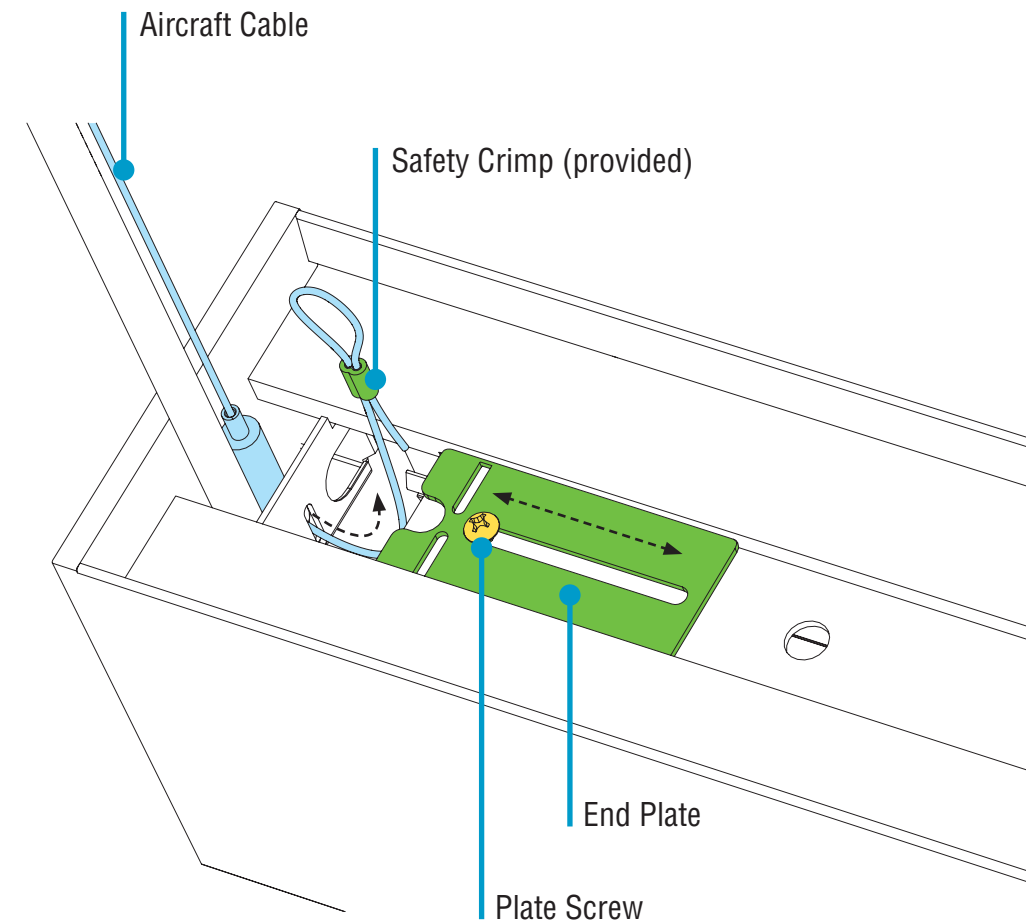
## Step 9 - Closing Luminaires

### A. Remove Uplight Backplate Top-Down View



- Use a putty knife or screwdriver to slip behind uplight backplate edges and release backplate from clips at each suspension points.
- Lift backplate out of housing channel, pulling wiring harnesses through the housing.
- Let backplate rest atop luminaire. **DO NOT** disconnect LED board harnesses.

### B. Crimp Cable Top-Down View



- Ensure all leveling has been performed prior to applying safety crimp.
- Loosen (**but do not remove**) plate screw and slide end plate open.
- Loop aircraft cable through safety crimp.
- Crimp, cut excess cable, and tuck back into luminaire body.
- Close end plate and tighten plate screw to secure. Typical for each aircraft cable.
- Replace uplight backplates by snapping back into clips.



CONTINUED

# H04 Indirect/Direct with Mitered Corners Installation Instructions

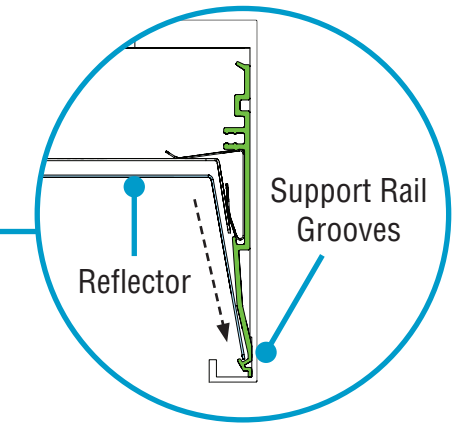
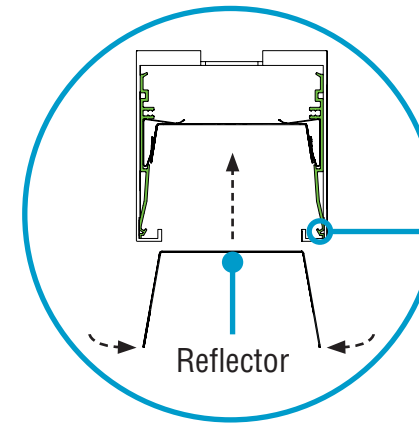
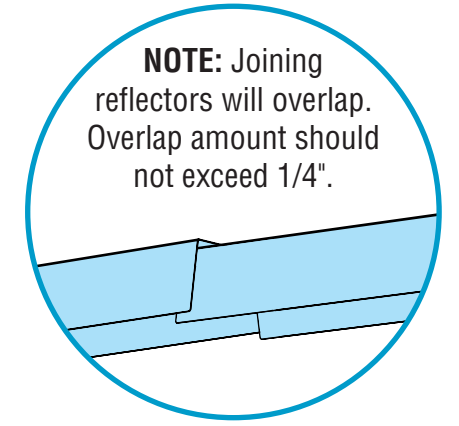
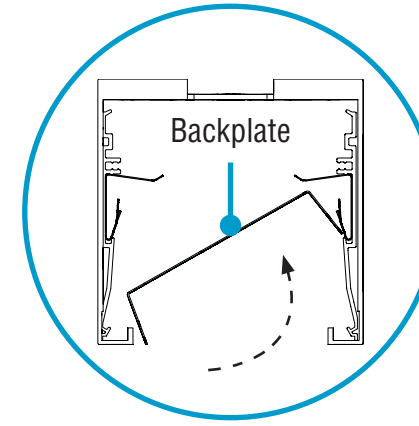
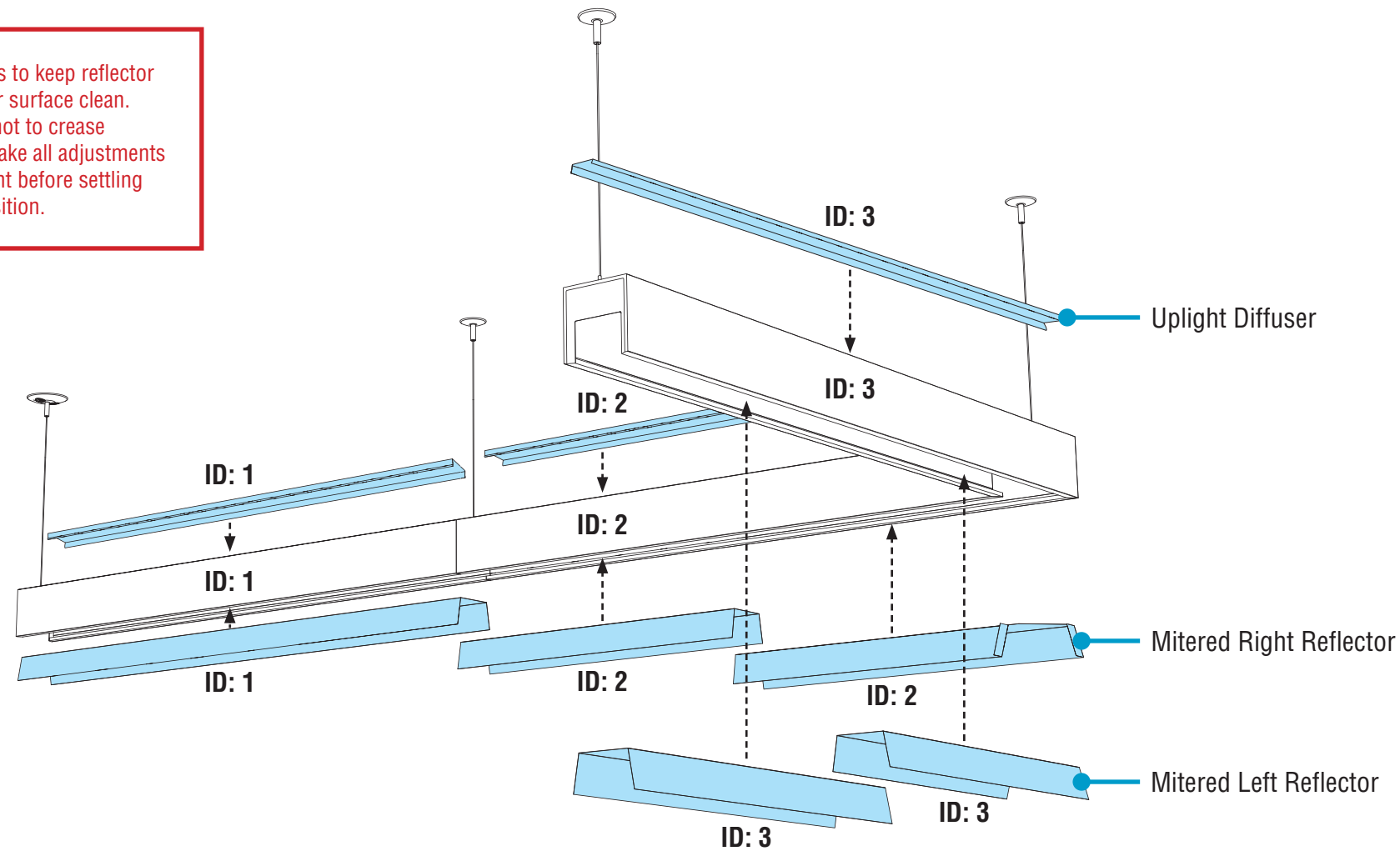
## Step 9 - Closing Luminaires

**B. Final Step - Reinstall Backplates, Reflectors, & Diffusers** Bottom-Up View



**CAUTION**

Wear gloves to keep reflector and diffuser surface clean. Be careful not to crease material. Make all adjustments to placement before settling on final position.



- **NOTE:** If your installation includes a battery backup, please see addendum (98333) that should be included with your kitting package.
- Reinstall mitered corner backplates by rotating into luminaire body and snapping into clips.
- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 6 of Sensor Addendum before Closing Luminaires.
- Remove reflectors and diffusers from protective plastic bags prior to installing.
- **CRITICAL:** Be sure to install correct reflector and diffuser to corresponding luminaire ID.

- Install uplight diffuser into luminaire body, ensuring it snaps in place.
- Install reflector by squeezing in sides and inserting into luminaire body.
- Ensure reflector is pulled down so that its bottom edges catch the groove of the support rail.
- **NOTE:** Reflectors installed in joiner and ender luminaires are 1/4" longer. When installing the reflectors, overlap the reflector of the previous luminaire section by 1/4".
- **FOR MITERED CORNERS:** Mitered right reflectors are installed first. Mitered left reflectors overlap mitered right reflectors.
- Turn power on to luminaires.



Reflector Installation