

# H04 Surface Mount 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



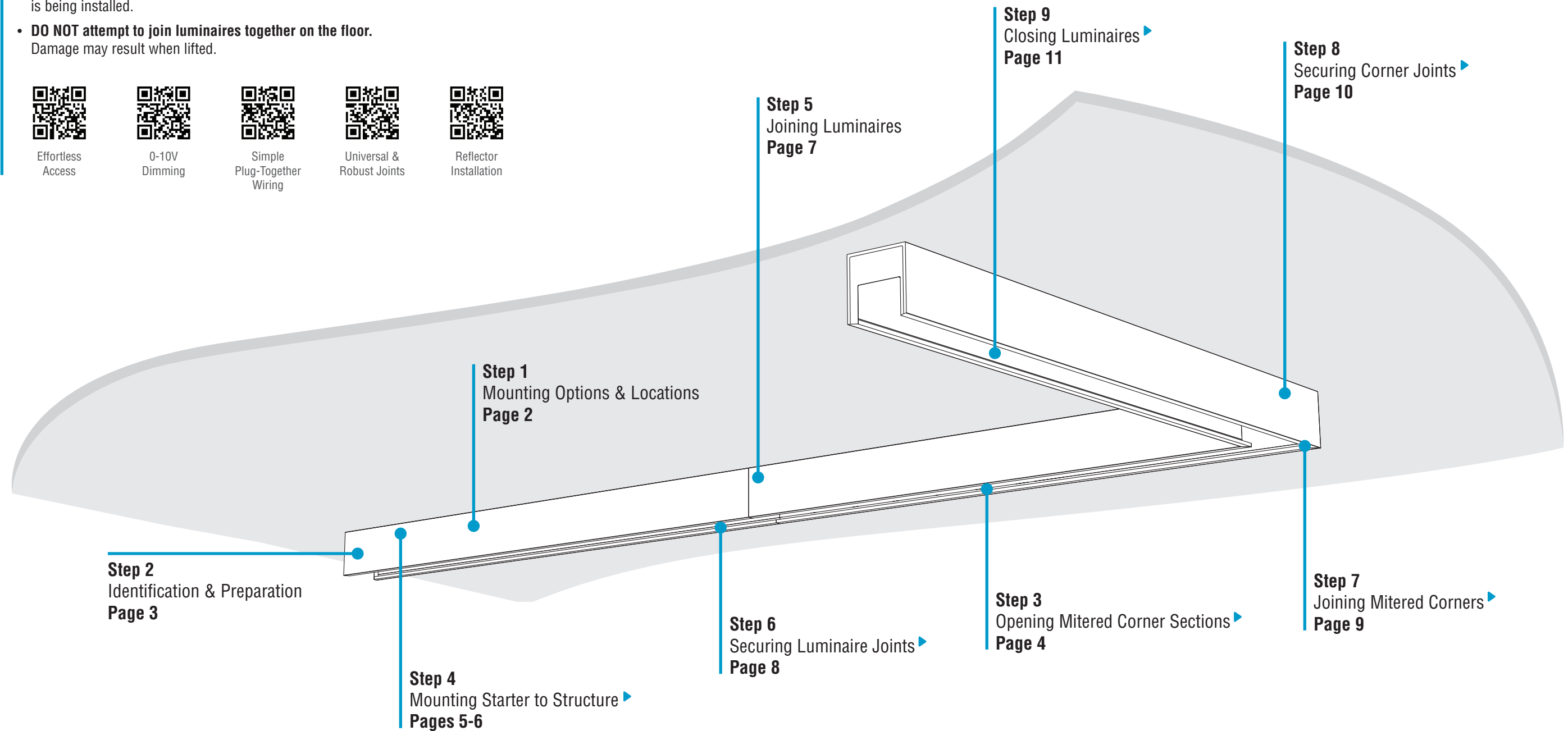
Simple Plug-Together Wiring



Universal & Robust Joints



Reflector Installation



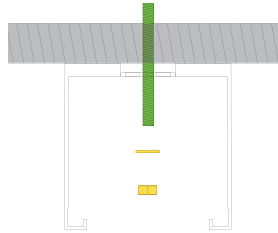
# H04 Surface Mount with Mitered Corners Installation Instructions

## Step 1 - Mounting Options & Locations

### Mounting Options

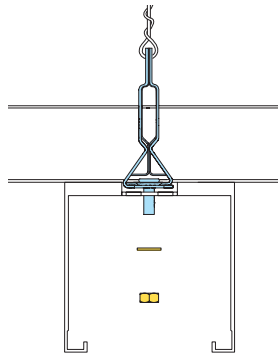
#### Option 1 - Mount to Threaded Rod

- Install threaded rods to structure.
- Threaded rod must exceed distance to wall/ceiling surface by 1-1/2".
- Install electrical junction box and electrical conduit at feed locations.



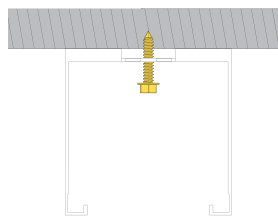
#### Option 2 - Mount to T-Bar

- Install caddy clips onto T-Bar at mounting point locations.
- All caddy clips are to be secured to structure, per local building codes.



#### Option 3 - Mount to Support Structure

- Install electrical junction box and electrical conduit at feed locations.

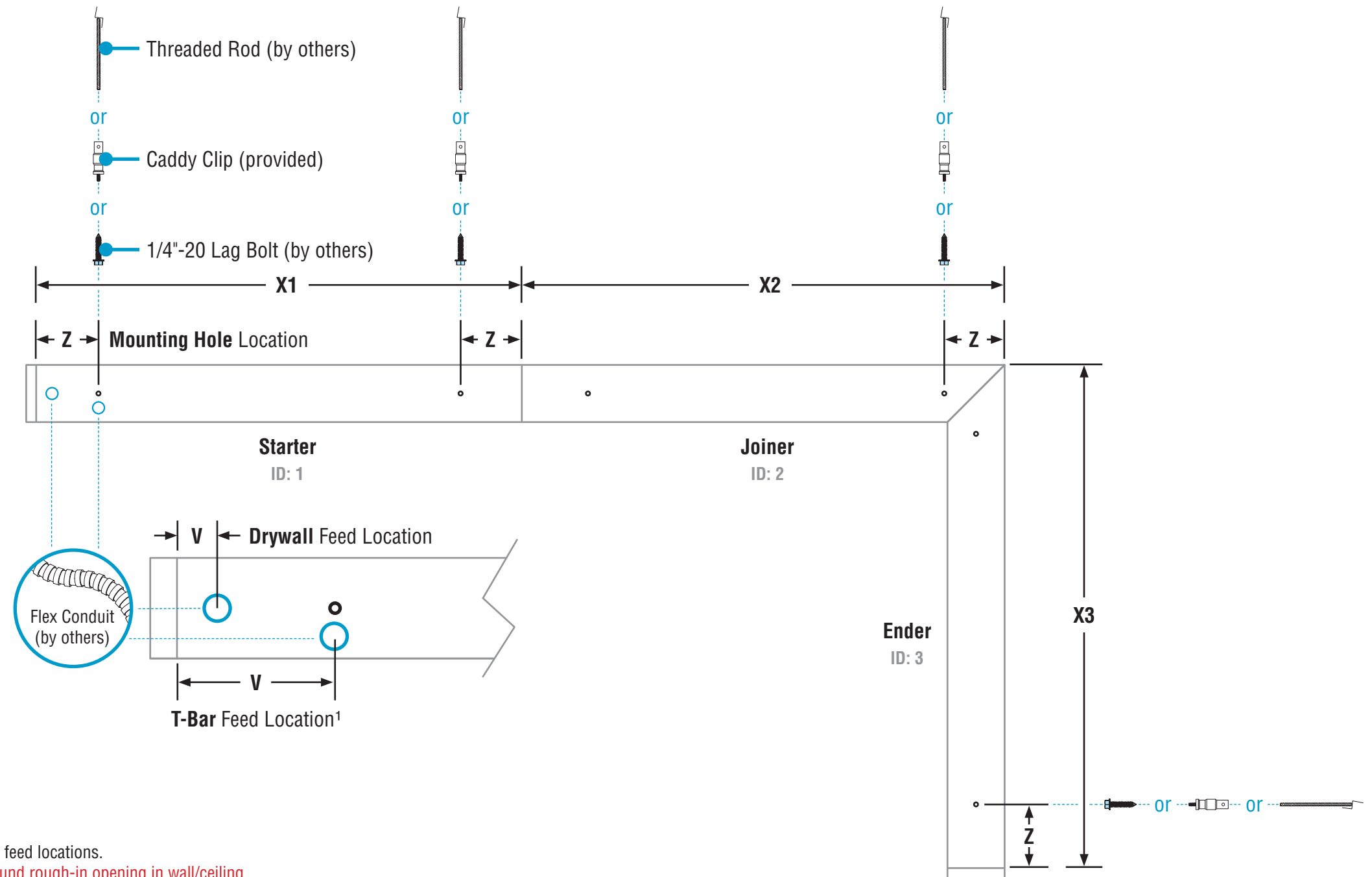


### Mounting Locations

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

H04	Z = Mounting Hole Location	V = Feed Location	
		Drywall	T-Bar <sup>1</sup>
	6"	1-1/8"	5"

- Luminaire mounting holes sized for 1/4"-20 hardware.
- Refer to Record Drawings and building plans to determine exact mounting and power feed locations.
- **CRITICAL:** Drywall or weak paneling must be secured to support blocking (studs) around rough-in opening in wall/ceiling.



**Mounting Option 1**

- Threaded Rod (by others)
- 1/4"-20 Washer (by others)
- 1/4"-20 Nut (by others)

**Mounting Option 2**

- Caddy Clip (provided)
- 1/4"-20 Washer (by others)
- 1/4"-20 Nut (by others)

**Mounting Option 3**

- 1/4"-20 Lag Bolt (by others)

- Flex Conduit (by others)

<sup>1</sup> For surface mount to T-Bar mounting, power feed location (V) will be offset from the middle of the luminaire to accommodate the T-Bar.

# H04 Surface Mount with Mitered Corners Installation Instructions

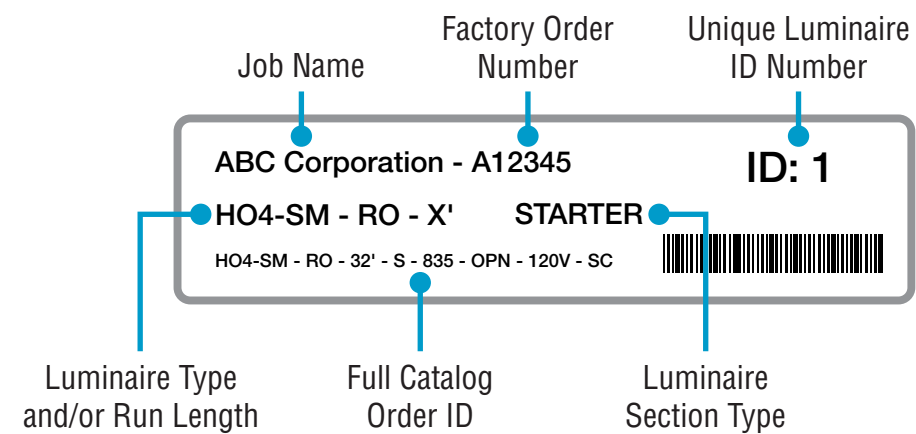
## Step 2 - Identification & Preparation

### A. Identify Luminaires



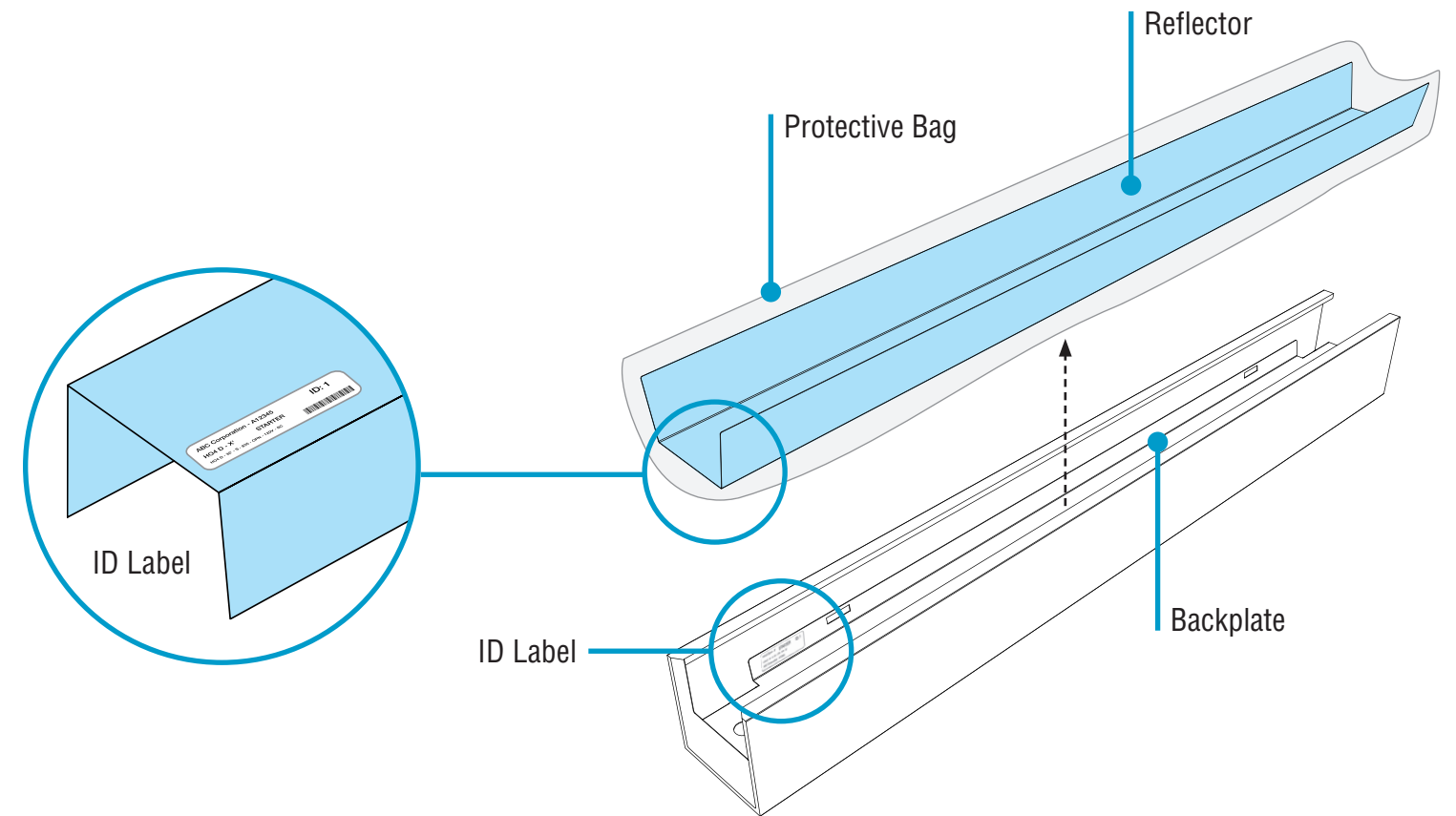
**CAUTION**

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



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

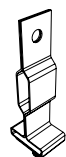
### B. Remove Reflectors Top-Down View



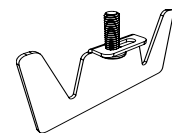
- Carefully remove all reflectors, keeping them inside their protective bags.
- Set aside all reflectors to prevent from getting dirty or damaged.
- Ensure reflectors can be clearly identified back to their corresponding luminaires.

### 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.



**Caddy Clip**  
 C1 Ceiling - Part# 94001  
 C2 Ceiling - Part# 94020  
 C3 Ceiling - Part# 94029  
 Mounting Options & Locations  
 p. 2, Step 1  
 Mounting Starter to Structure  
 p. 6, Step 4  
 Joining Luminaires  
 p. 7, Step 5  
 Joining Mitered Corner Sections  
 p. 9, Step 7



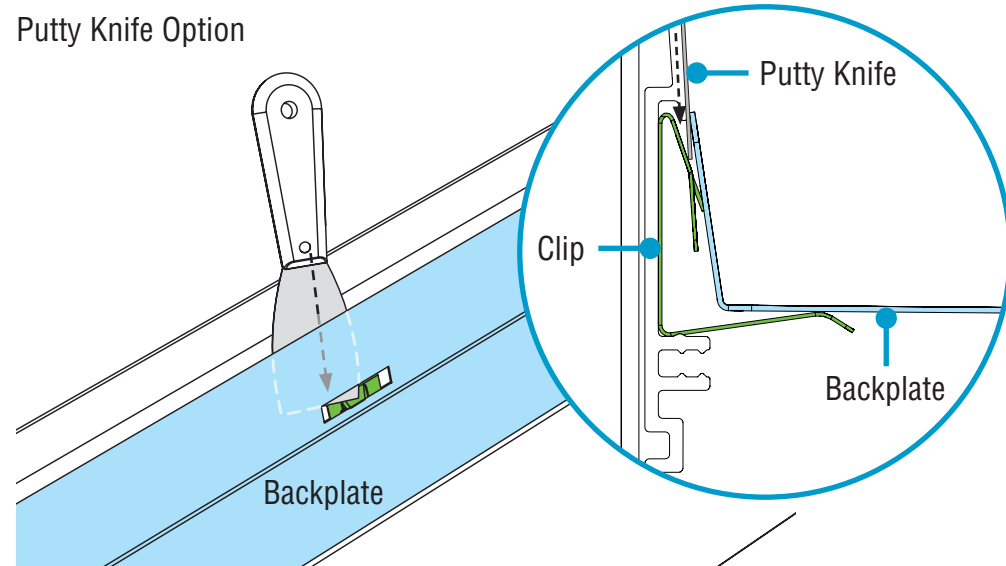
**Yoke Bracket**  
 Part# 45042  
**#10-32 x 5/8" Screw**  
 Part# 94139  
 Securing Luminaire Joints  
 p. 8, Step 6  
 Securing Corner Joints  
 p. 10, Step 8

# H04 Surface Mount with Mitered Corners Installation Instructions

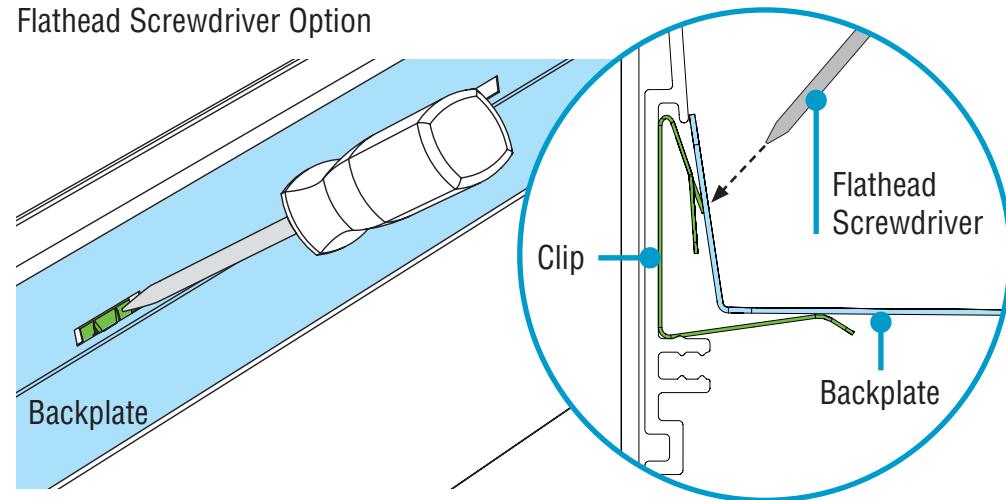
## Step 3 - Opening Mitered Corner Sections

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

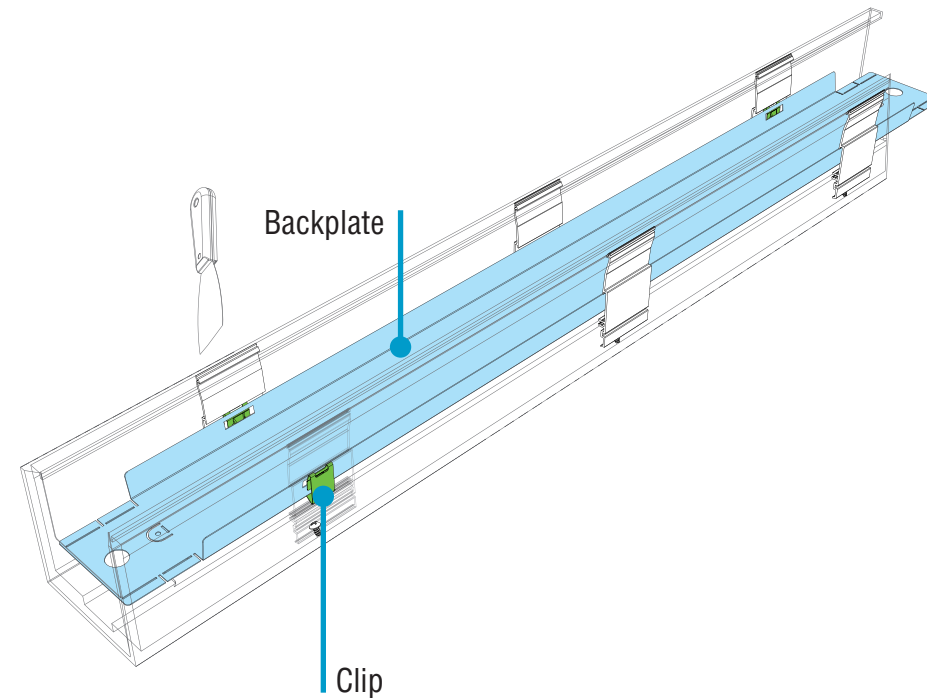
Putty Knife Option



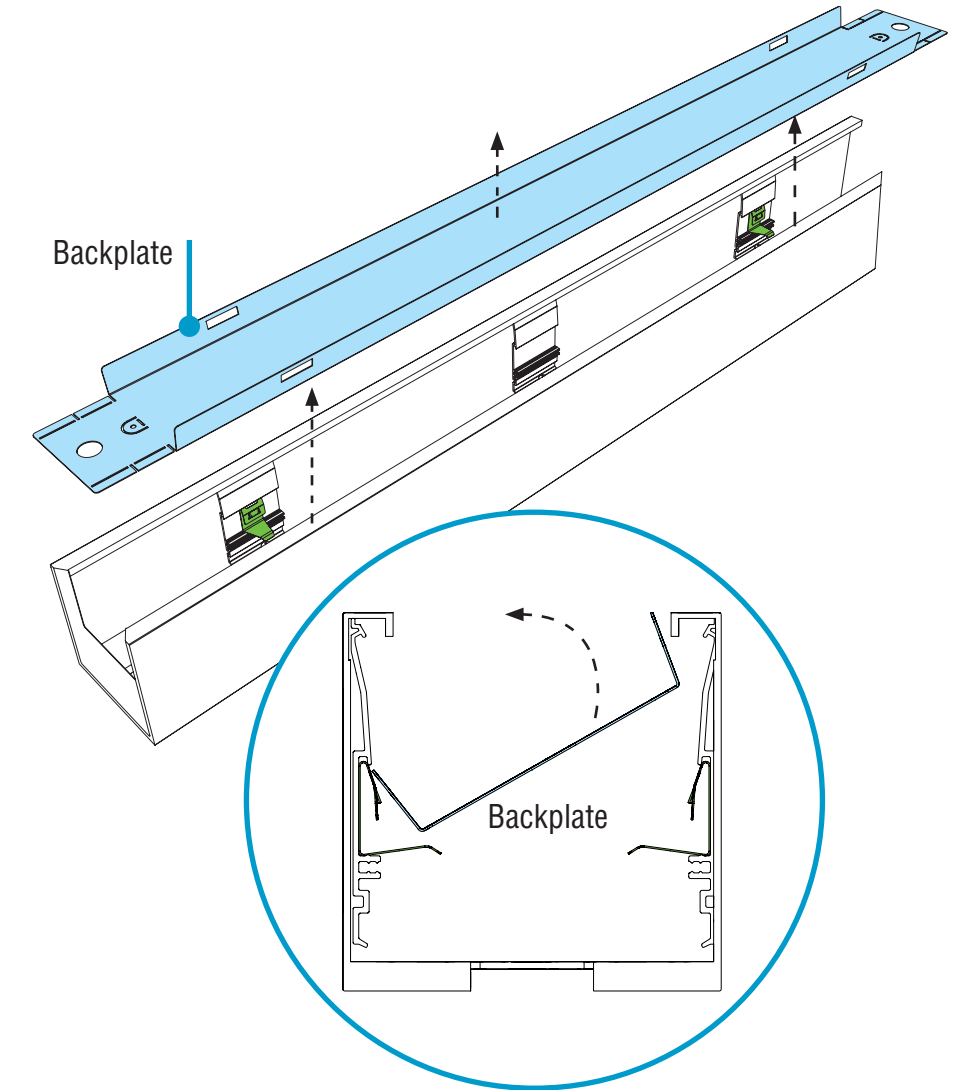
Flathead Screwdriver Option



- 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.

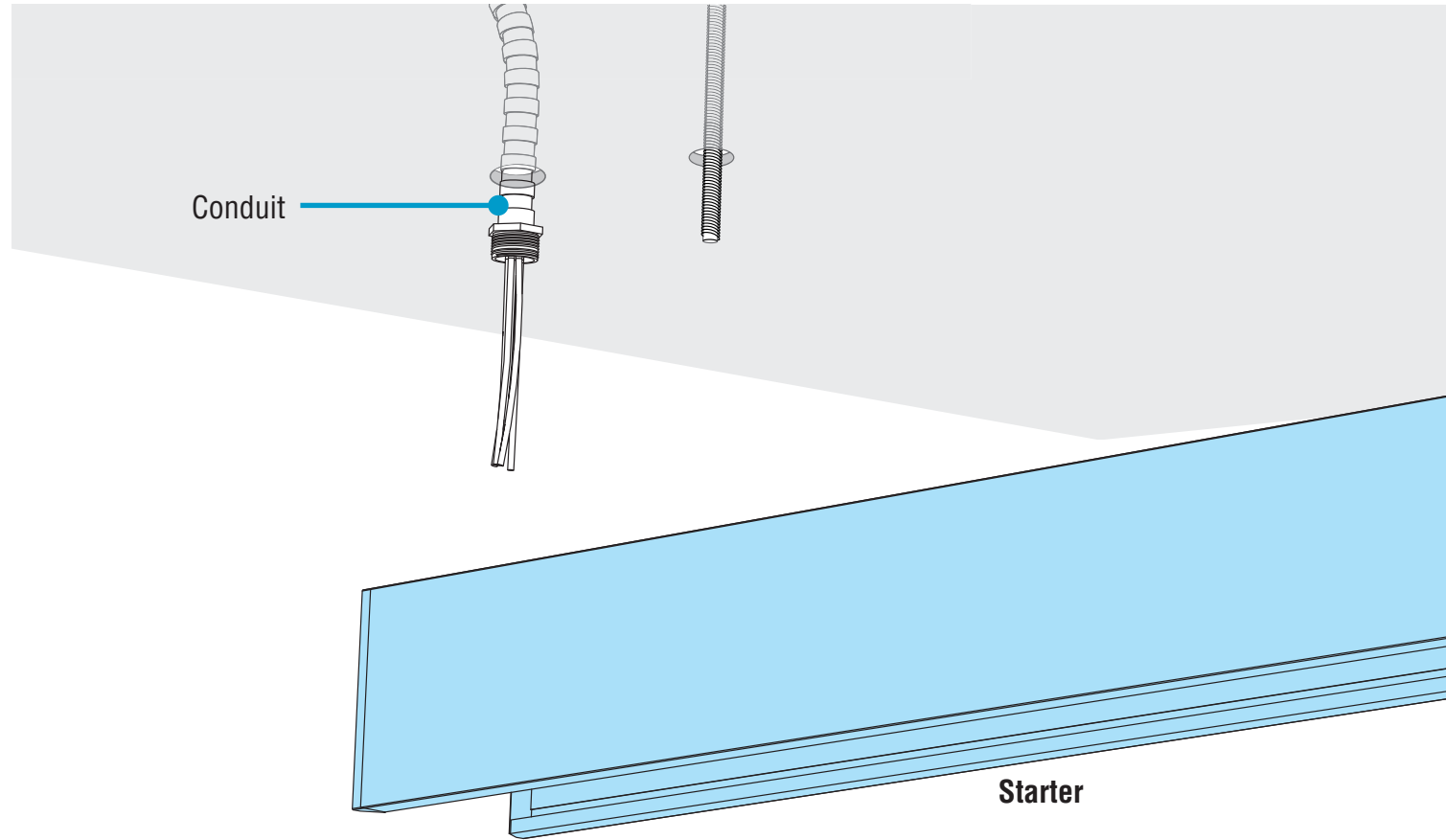


Effortless  
Access

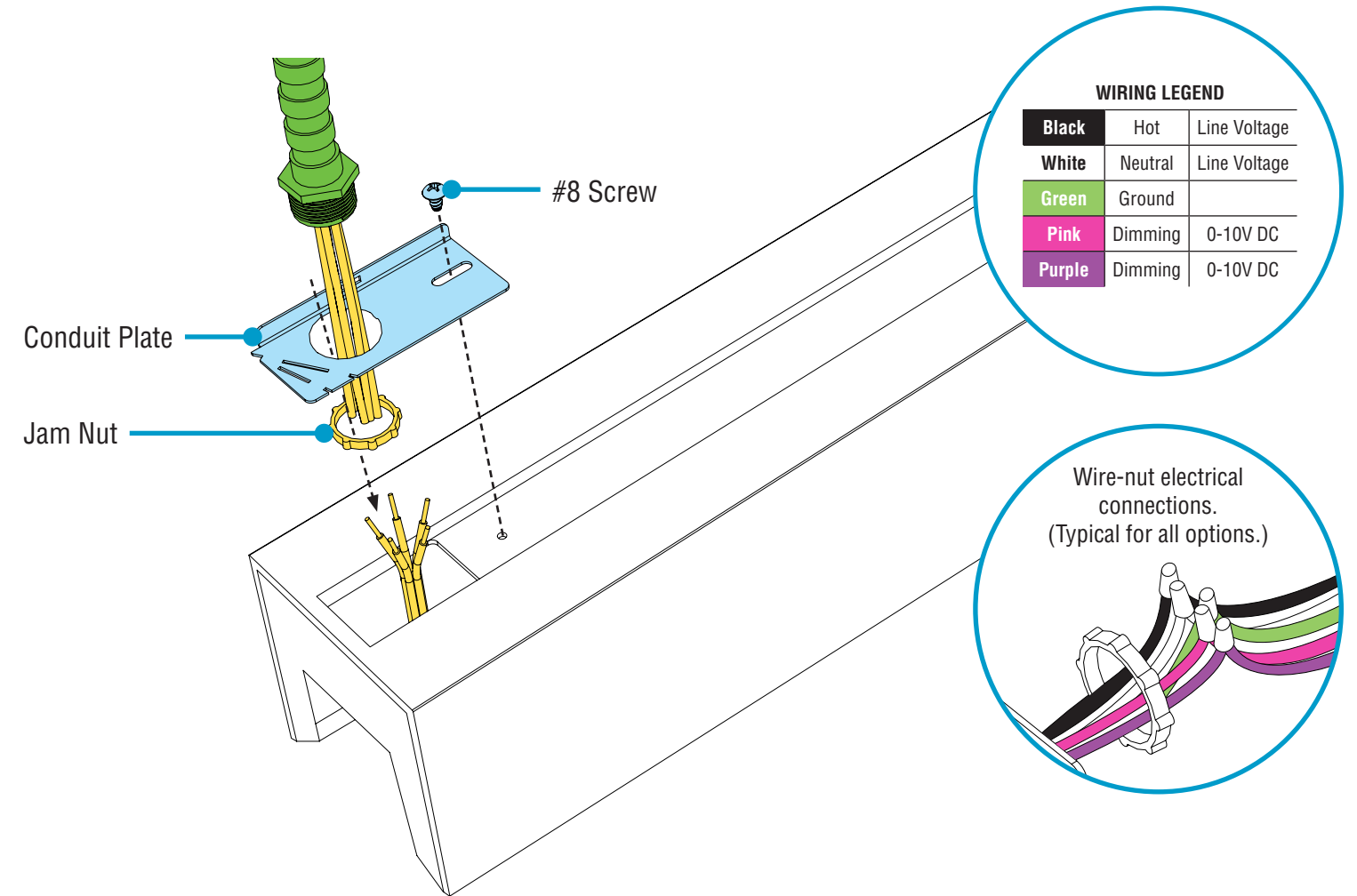
# H04 Surface Mount with Mitered Corners Installation Instructions

## Step 4 - Mounting Starter to Structure

**A. Make Electrical Connections** Bottom-Up View



Top-Down View



- While properly supporting luminaire, maneuver luminaire near wall/ceiling opening.
- Make electrical connections at **TOP** of luminaire.

- Remove screw holding conduit plate.
- Install conduit and nut onto conduit plate.
- Wire-nut electrical connections. See wiring legend above.
- Reinstall conduit plate and screw. Do not damage any wires.

CONTINUED

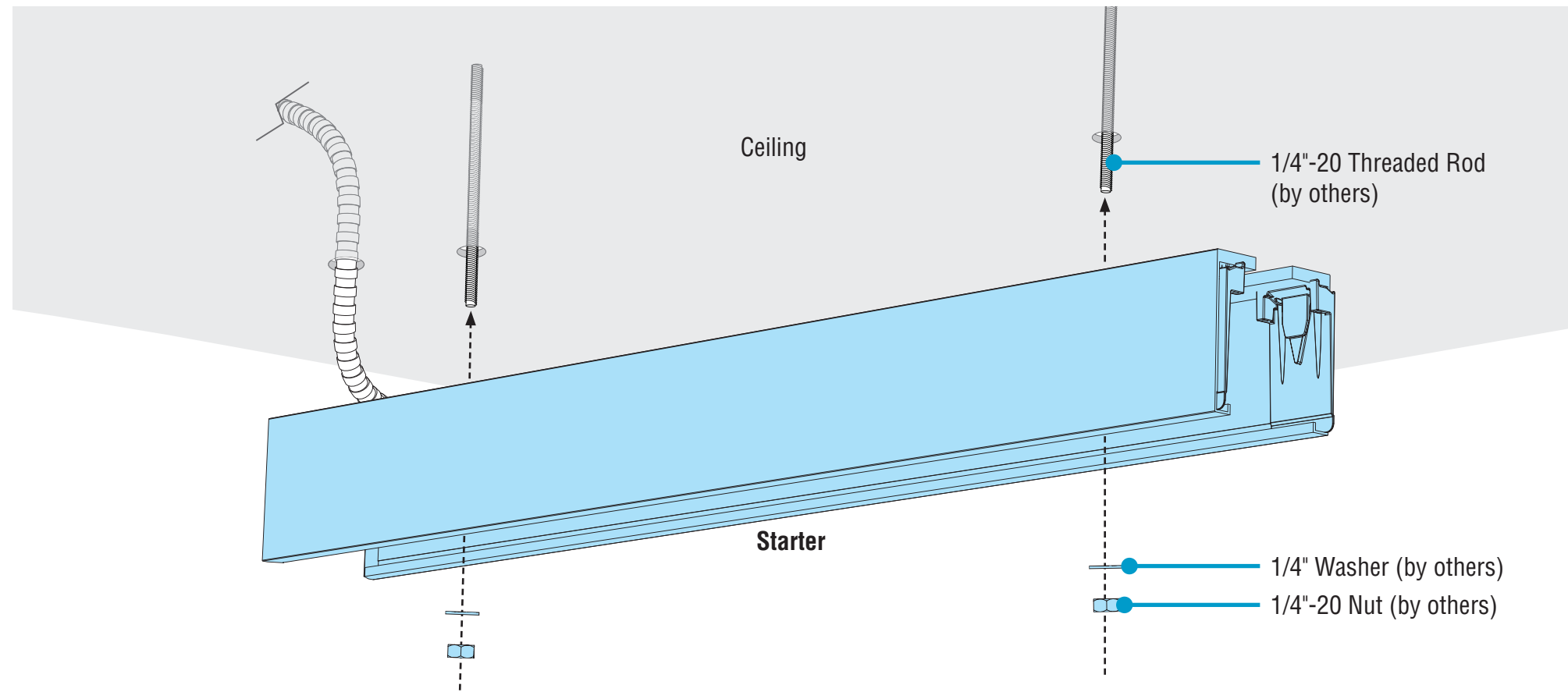


0-10V  
Dimming

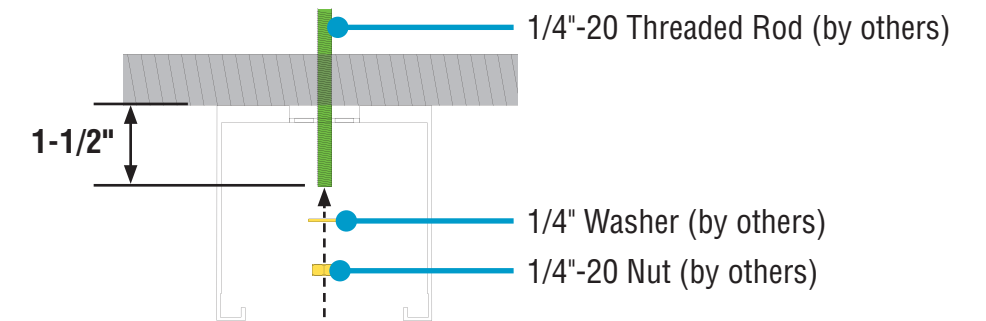
# H04 Surface Mount with Mitered Corners Installation Instructions

## Step 4 - Mounting Starter to Structure

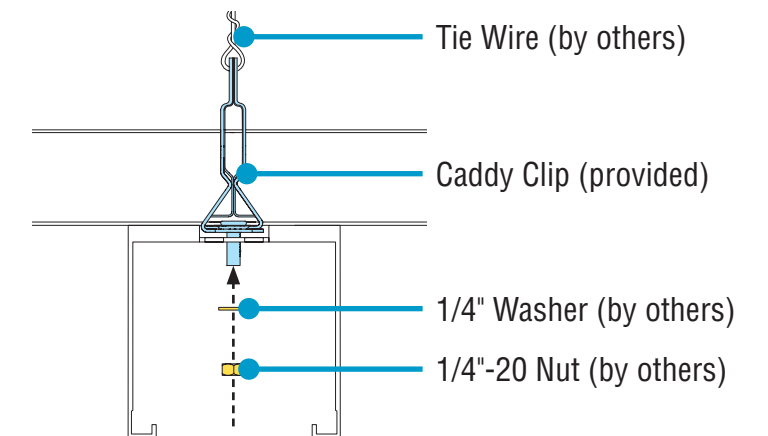
**B. Mount Starter to Structure** Bottom-Up View



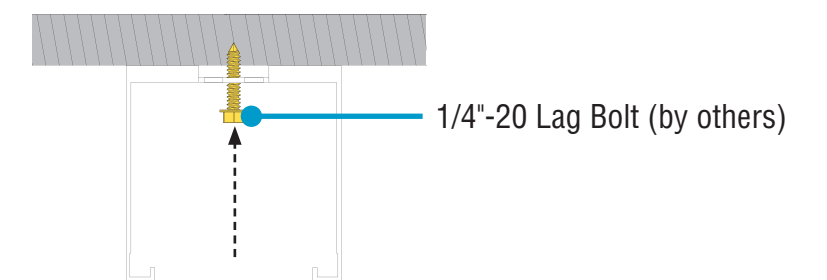
**Option 1 (Shown) - Mount to Threaded Rod**



**Option 2 - Mount to T-Bar**



**Option 3 - Mount to Structure**



**Option 1 (Shown) - Mount to Threaded Rod**

**Option 2 - Mount to T-Bar**

- Align mounting holes with hanging hardware.
- Install 1/4"-20 nut and 1/4"-20 washer onto 1/4"-20 threaded rod.
- **CRITICAL:** If installing a joiner luminaire, leave nut loose.
- **NOTE:** If installing mitered corner to starter, **PROCEED TO STEP 7, PAGE 9.**

**Option 3 - Mount to Structure**

- Place luminaire onto wall/ceiling and mount to structure support with hardware appropriate for the structure type.
- Support blocking<sup>2</sup> must not exceed distance to wall/ceiling surface<sup>1</sup>.
- **CRITICAL:** If installing a joiner luminaire, leave nut loose.
- **NOTE:** If installing mitered corner to starter, **PROCEED TO STEP 7, PAGE 9.**

**Mounting Option 1**

- Threaded Rod (by others)
- 1/4"-20 Washer (by others)
- 1/4"-20 Nut (by others)

**Mounting Option 2**

- Caddy Clip (provided)
- 1/4"-20 Washer (by others)
- 1/4"-20 Nut (by others)

**Mounting Option 3**

- 1/4"-20 Lag Bolt (by others)

<sup>1</sup> Wall/ceiling surface = drywall, wood, concrete or masonry, metal panels, tile, etc.

<sup>2</sup> Support blocking = Wooden beams/studs, sheet metal framing beams, steel beams, concrete beams, etc. Use hardware appropriate to the beam material.

# H04 Surface Mount with Mitered Corners Installation Instructions

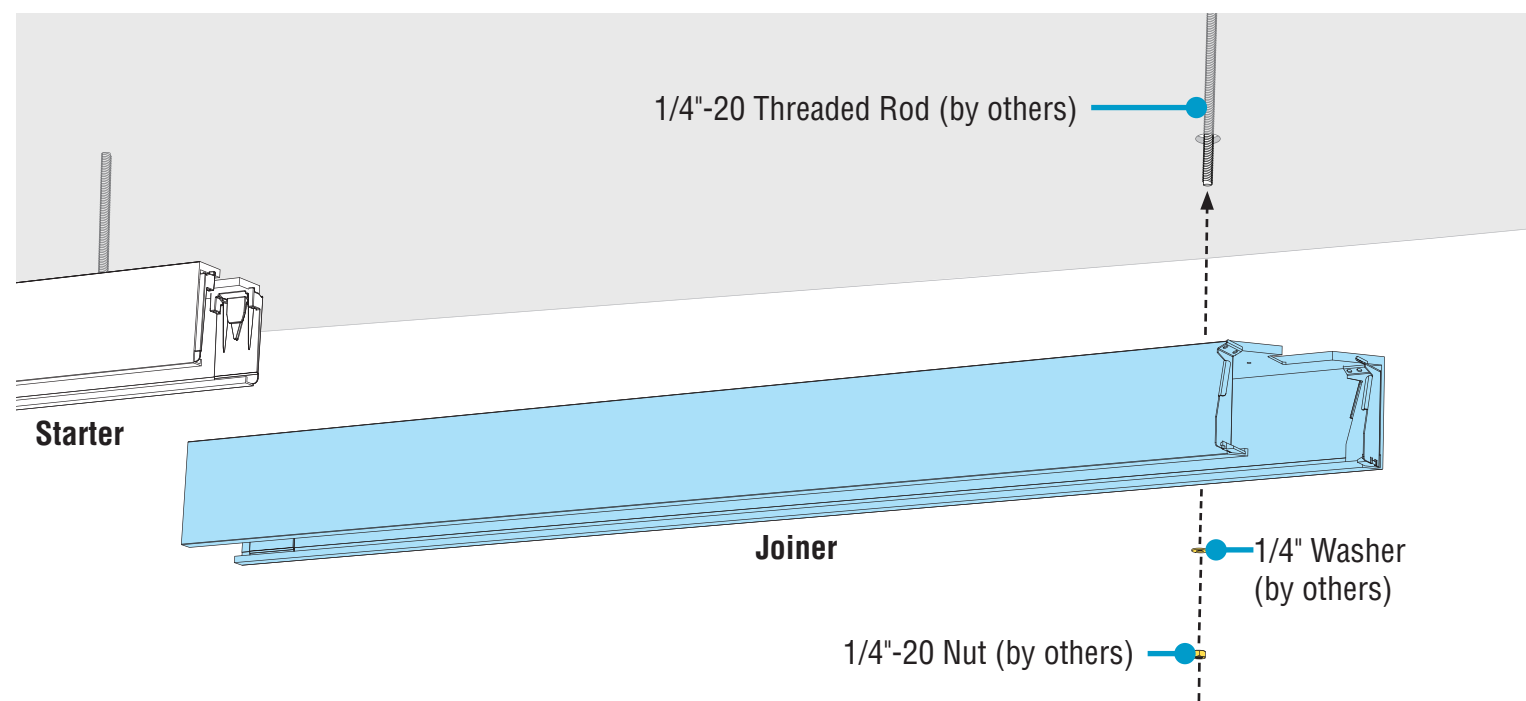
## Step 5 - Joining Luminaires

### 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.



#### Option 1 (Shown) - Mount to Threaded Rod

#### Option 2 - Mount to T-Bar

- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 4 of Sensor Addendum before joining luminaires.
- Align mounting holes with hanging hardware.
- Install 1/4"-20 nut and 1/4"-20 washer onto 1/4"-20 threaded rod.
- **NOTE:** Leave nut loose, allowing luminaire to hang at an angle.

#### Option 3 - Mount to Structure

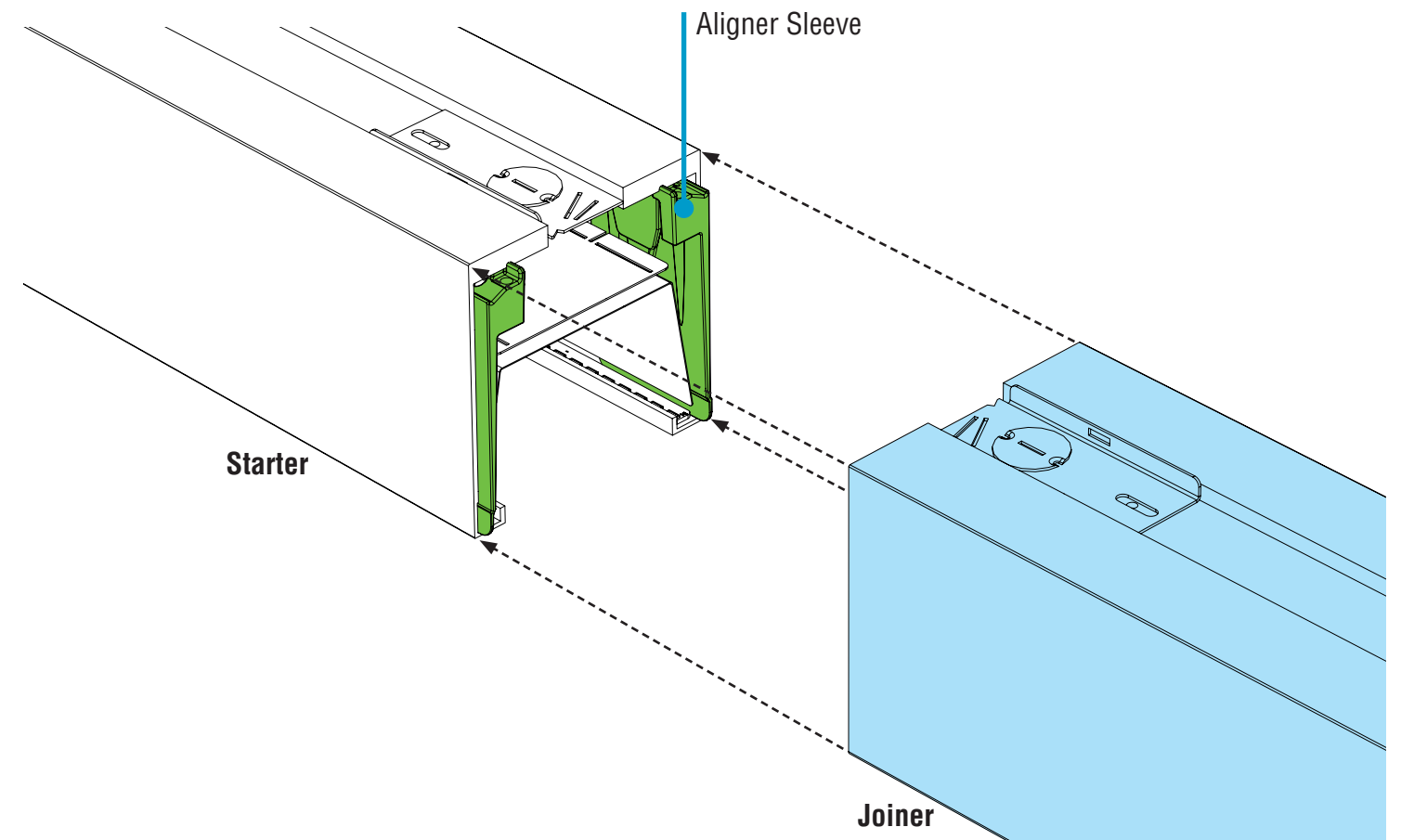
- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 4 of Sensor Addendum before joining luminaires.
- Mount to structure support with hardware appropriate for the structure type.
- **NOTE:** Leave nut loose, allowing luminaire to hang at an angle.

### B. Join Luminaires Top-Down View



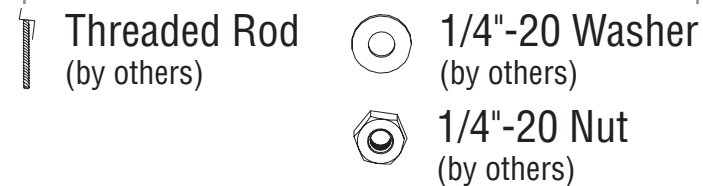
**CAUTION**

Joiner luminaire is not yet secure. Ensure it does not slide off the starter luminaire.

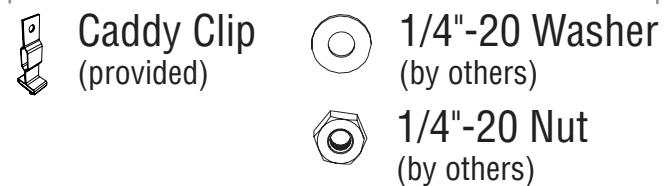


- Align joiner with aligner sleeves on starter and slide together. Be careful not to damage any wiring.

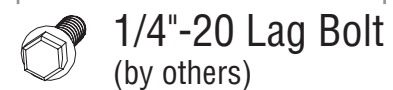
#### Mounting Option 1



#### Mounting Option 2



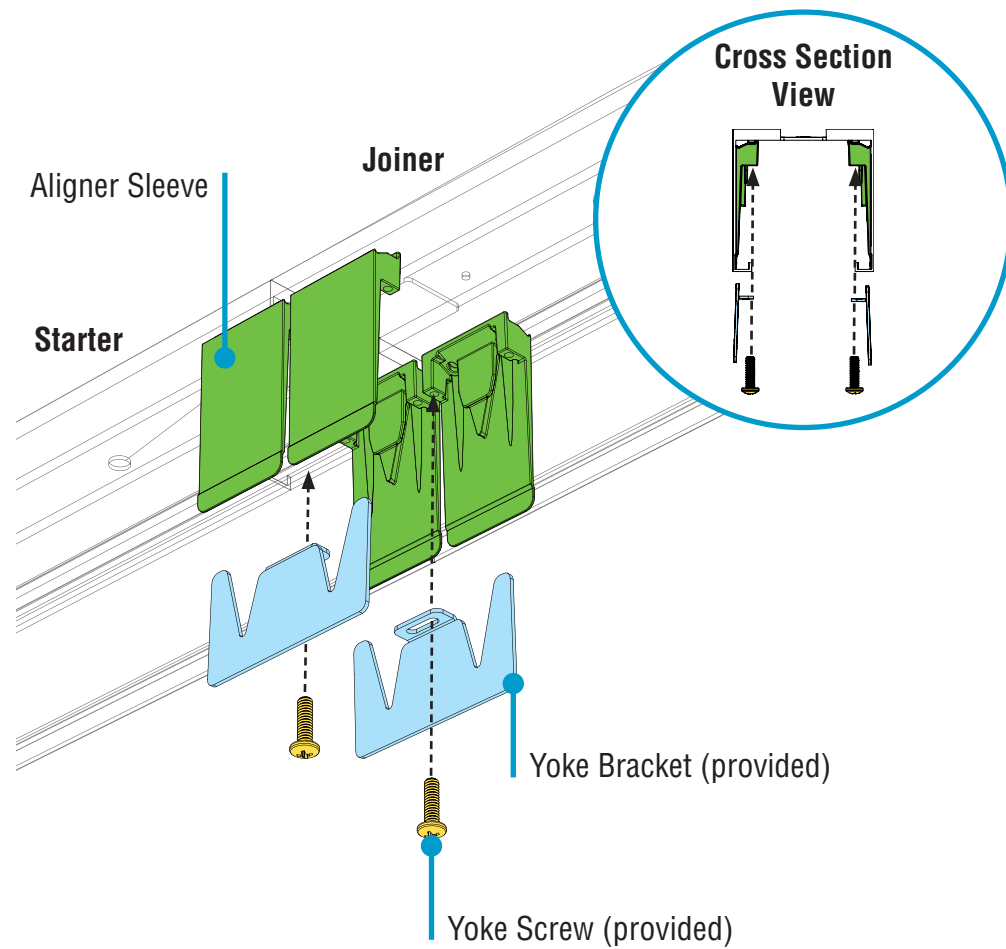
#### Mounting Option 3



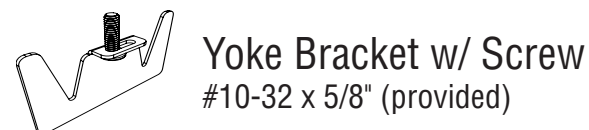
# H04 Surface Mount with Mitered Corners Installation Instructions

## Step 6 - Securing Luminaire Joints

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

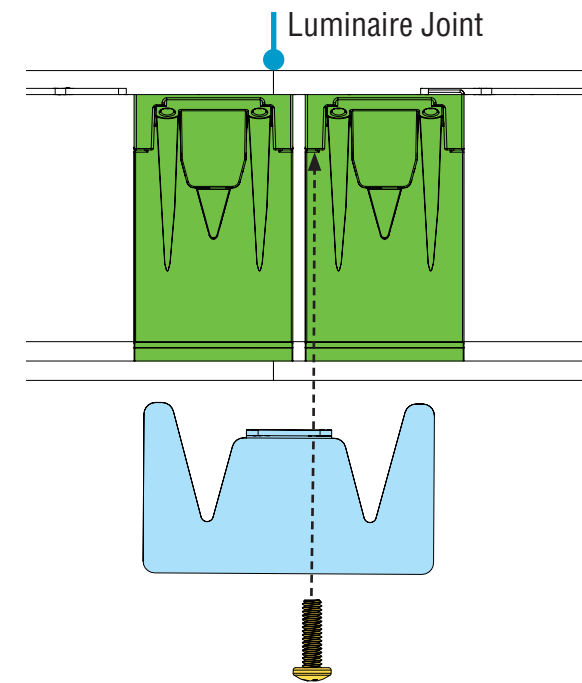


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by threading (but not yet tightening) yoke screws through yoke brackets and into the aligner sleeves.
- Tighten yoke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

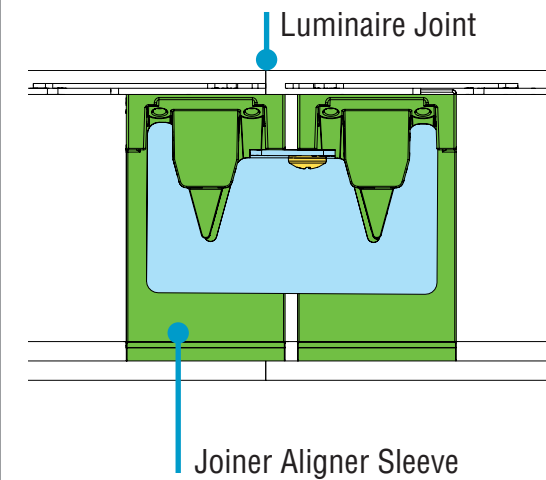


<sup>1</sup> Screwdriver with 6" bit required.

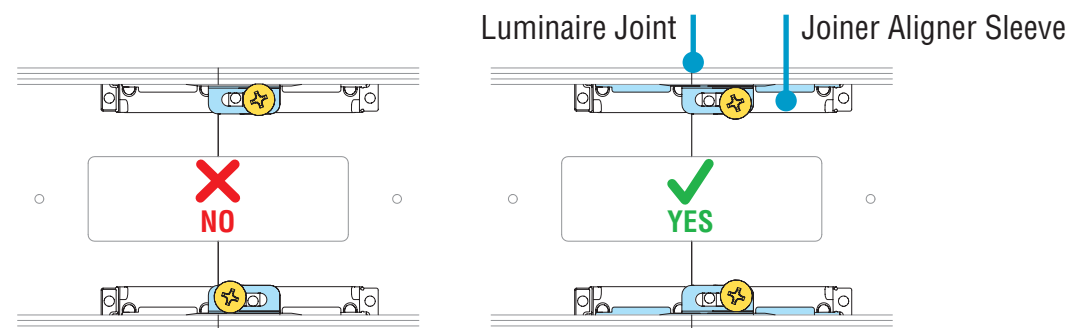
### IN ALIGNMENT



### CORRECTLY INSTALLED

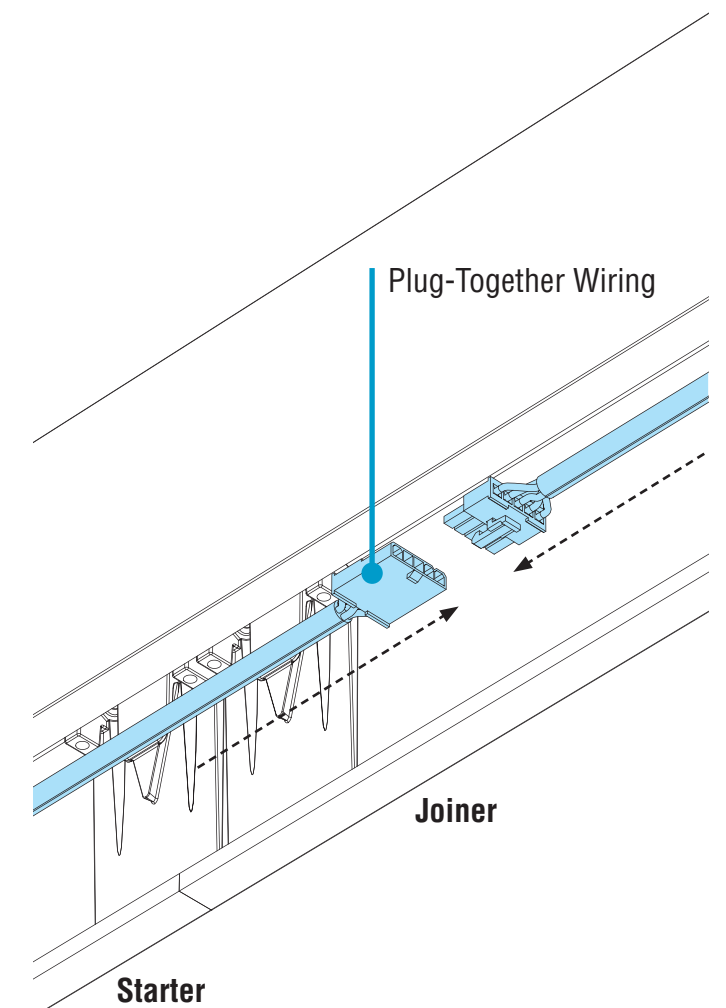


### YOKE SCREW ALIGNMENT Bottom-Up View



- **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



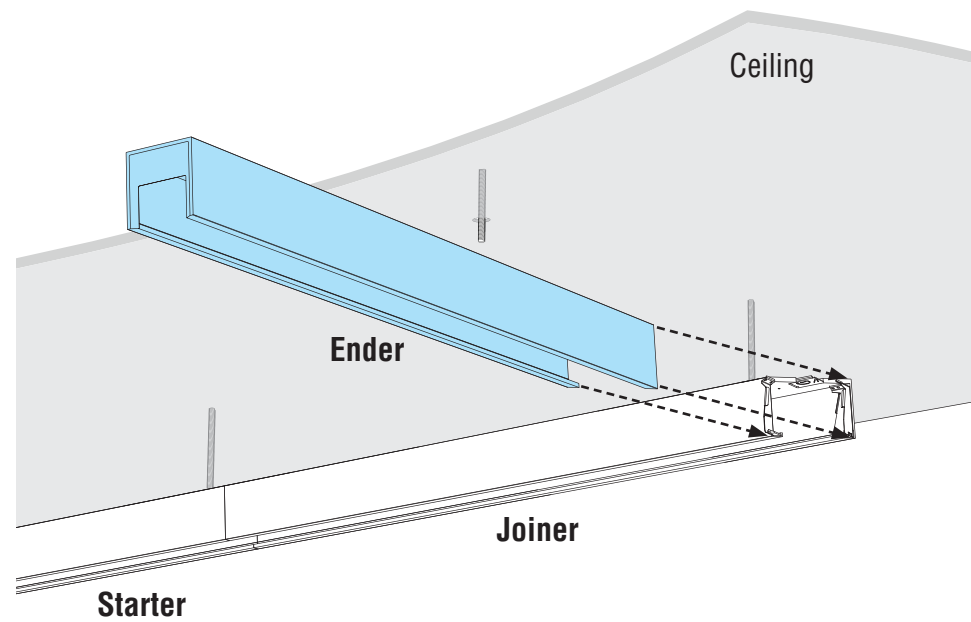
Universal &  
Robust Joints



# H04 Surface Mount with Mitered Corners Installation Instructions

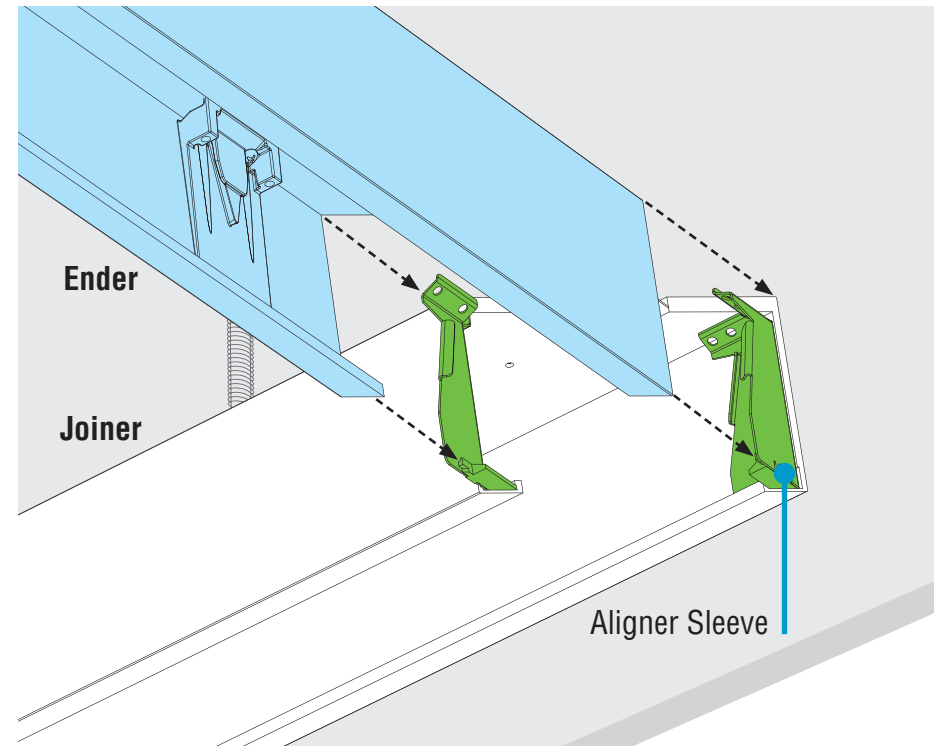
## Step 7 - Joining Mitered Corners

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



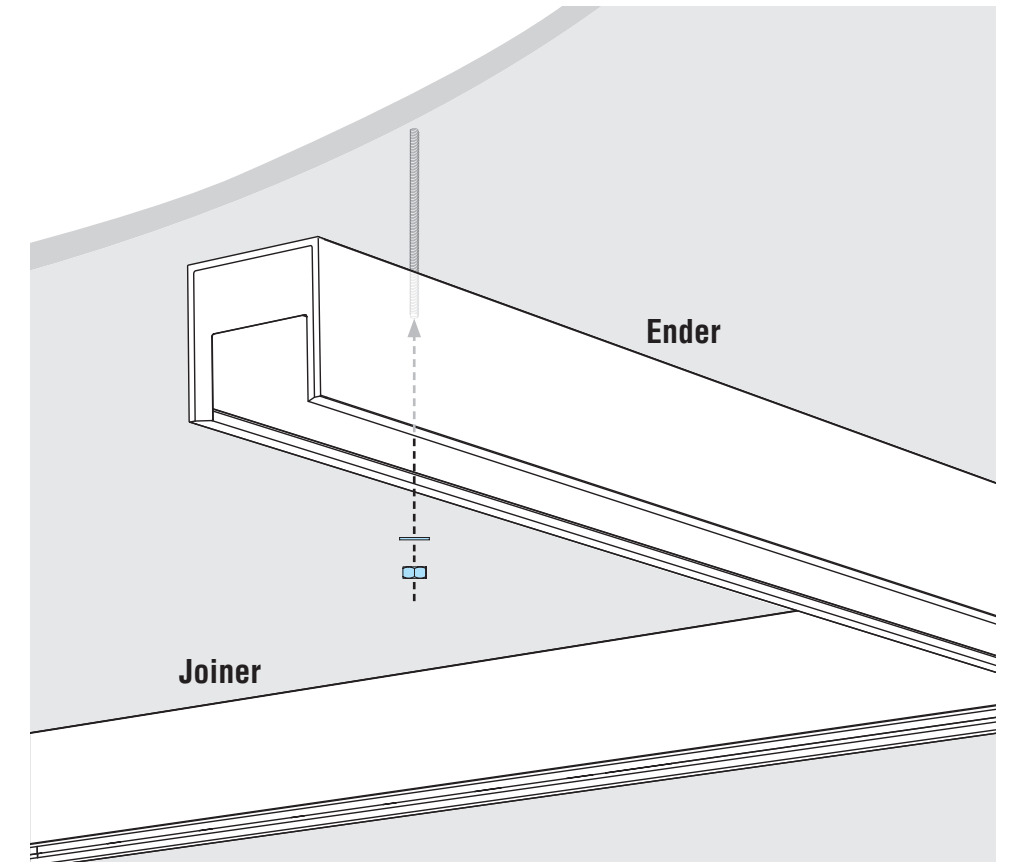
- Maneuver mitered ender luminaire toward mitered joiner.
- Align mounting holes with hanging hardware.
- If necessary, loosen bolts on previous luminaire so that it can hang out of the opening at an angle.

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



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

**C. Secure Ender to Structure** Bottom-Up View



- Secure ender to structure using preferred mounting option.
- **CRITICAL:** If installing a joiner luminaire, leave the nut or bolt/screw loose, allowing the luminaire to hang out of ceiling at an angle.

**Mounting Option 1**

- Threaded Rod (by others)
- 1/4"-20 Washer (by others)
- 1/4"-20 Nut (by others)

**Mounting Option 2**

- Caddy Clip (provided)
- 1/4"-20 Washer (by others)
- 1/4"-20 Nut (by others)

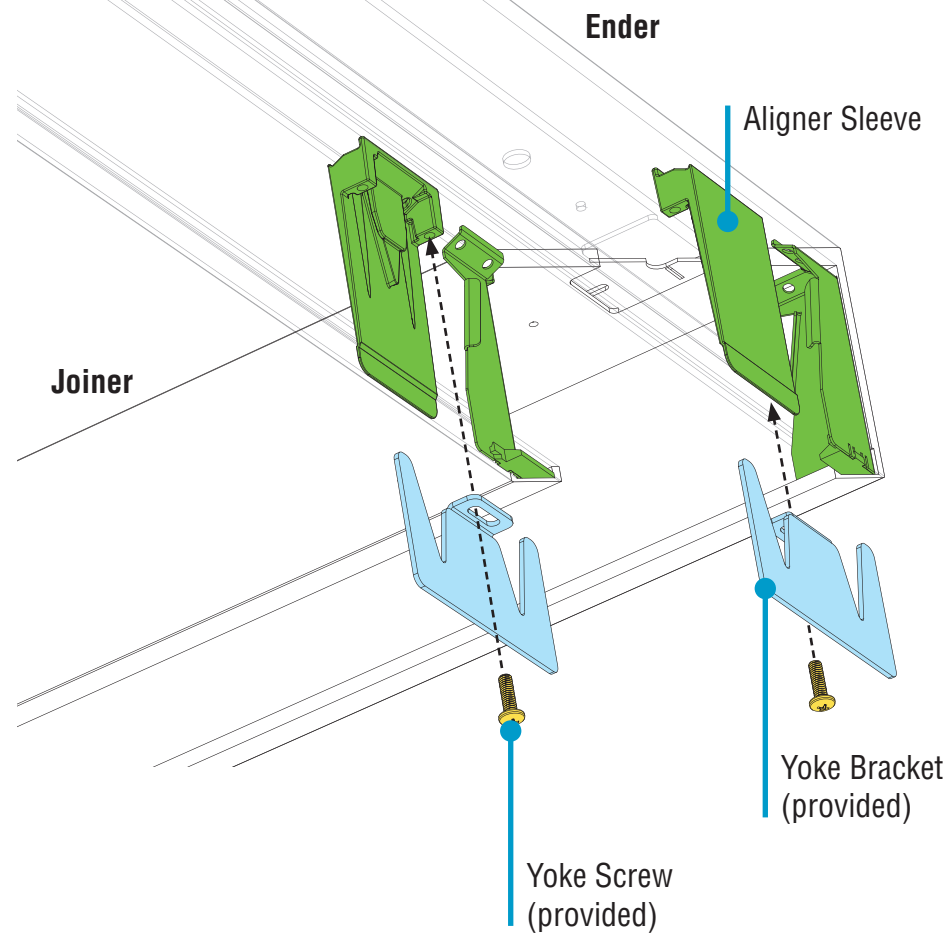
**Mounting Option 3**

- 1/4"-20 Lag Bolt (by others)

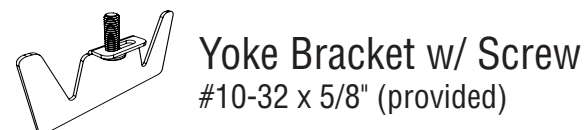
# H04 Surface Mount with Mitered Corners Installation Instructions

## Step 8 - Securing Corner Joints

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

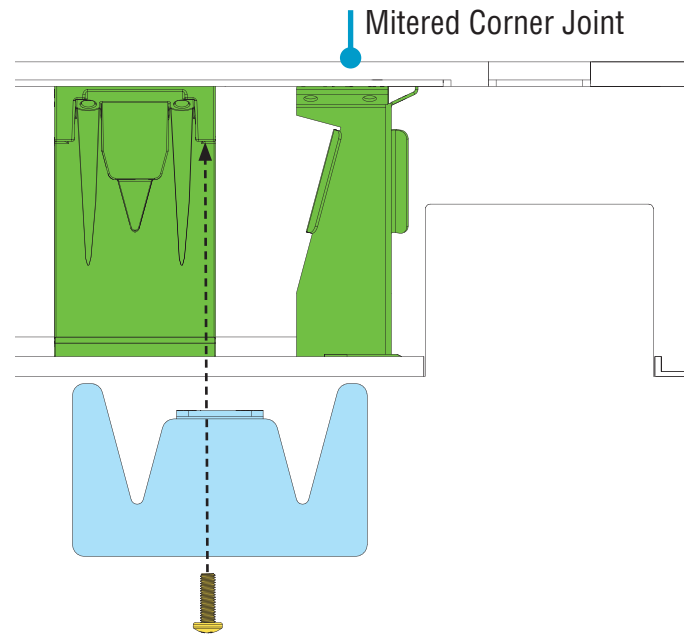


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by threading (but not yet tightening) yoke screws through yoke brackets and into the aligner sleeves.
- Tighten yoke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

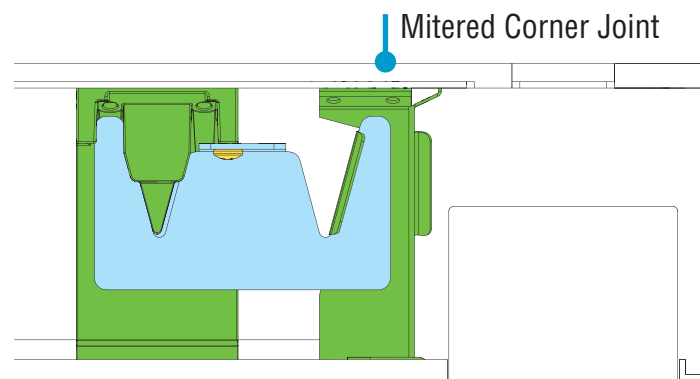


<sup>1</sup> Screwdriver with 6" bit required.

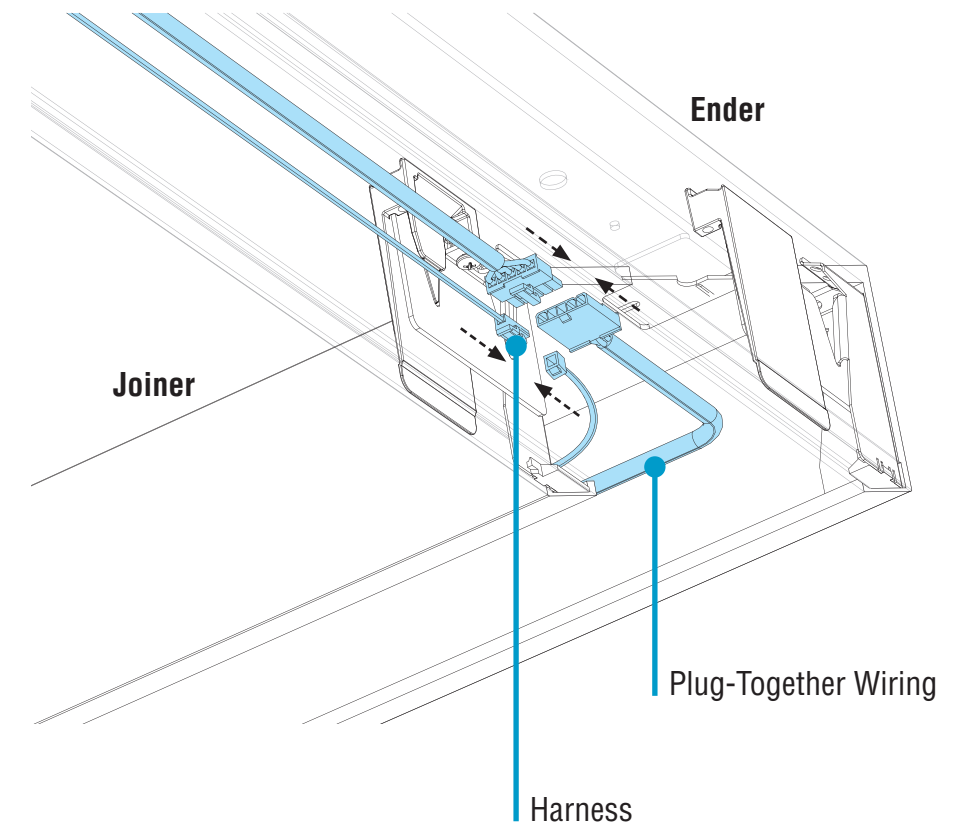
### IN ALIGNMENT



### CORRECTLY INSTALLED



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



- Connect plug-together wiring and LED harness.
- **CRITICAL:** Ensure all luminaire sections are secured tightly to wall/ceiling surface.



Simple  
Plug-Together  
Wiring

# H04 Surface Mount with Mitered Corners Installation Instructions

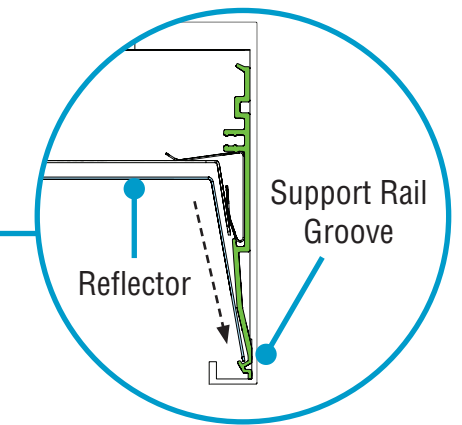
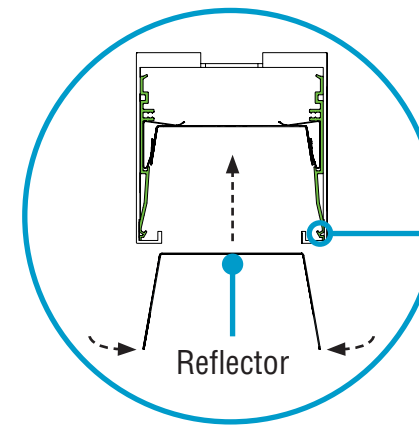
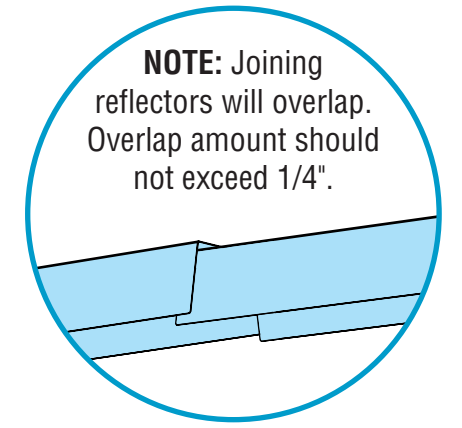
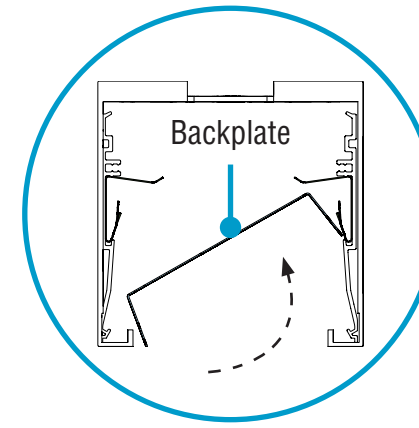
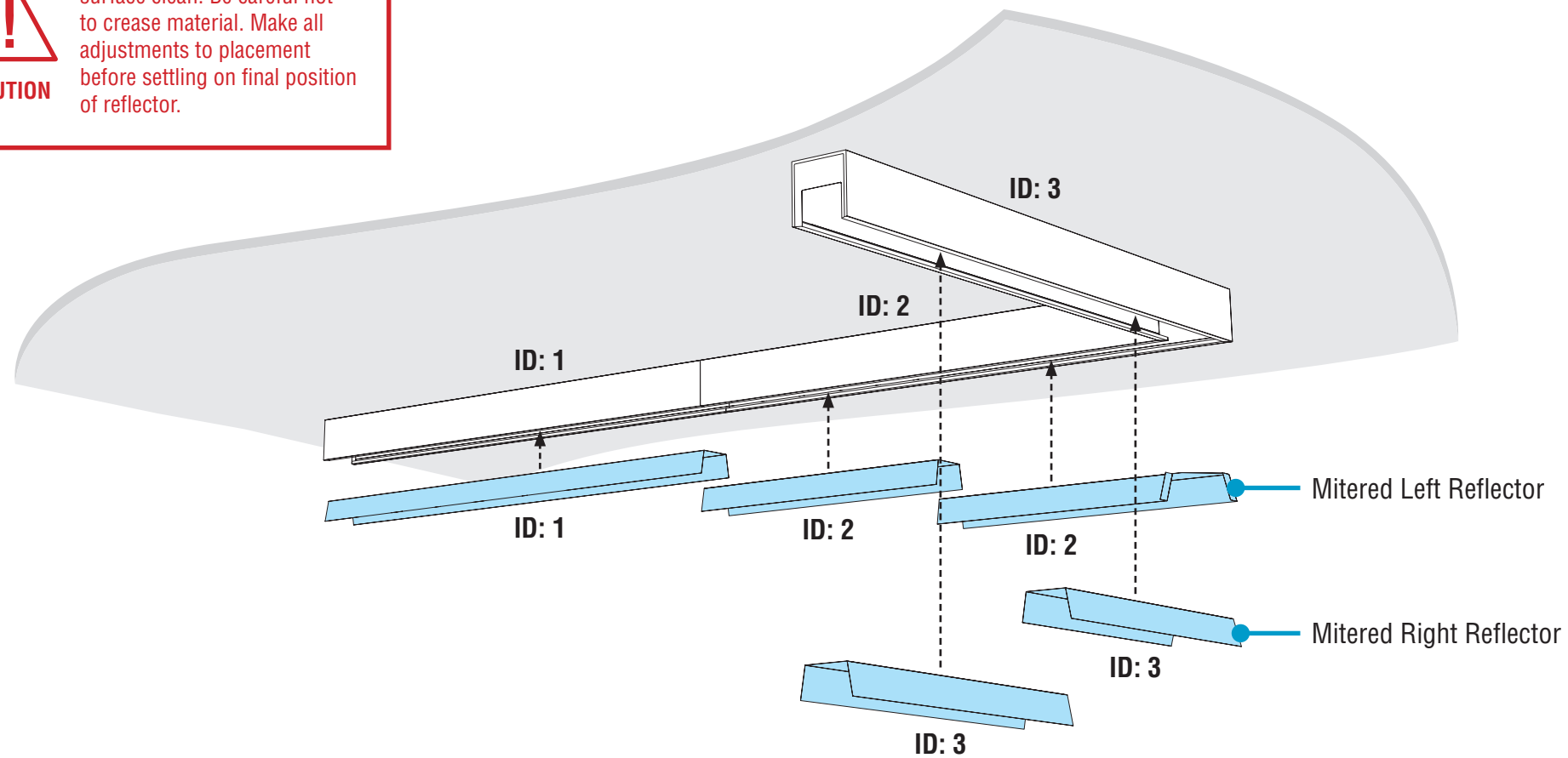
## Step 9 - Closing Luminaires

**Final Step - Install Backplates & Reflectors** Bottom-Up View



**CAUTION**

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



- **NOTE:** If your installation includes a battery backup, please see addendum (98333) that should be included with your kitting package.
- **FOR SENSOR:** If luminaire contains a sensor at endcap, refer to page 3 of Sensor Addendum. If luminaire contains a sensor at joint, refer to page 6 of Sensor Addendum.
- Reinstall mitered corner backplates by rotating into luminaire body and snapping into clips.
- Remove reflectors from protective plastic bags prior to installing.
- **CRITICAL:** Be sure to install correct reflector to its corresponding luminaire ID.

- Install reflector by squeezing in sides and inserting into luminaire body.
- Ensure reflector is pulled down so that its bottom edges catch the grooves 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