

H04 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



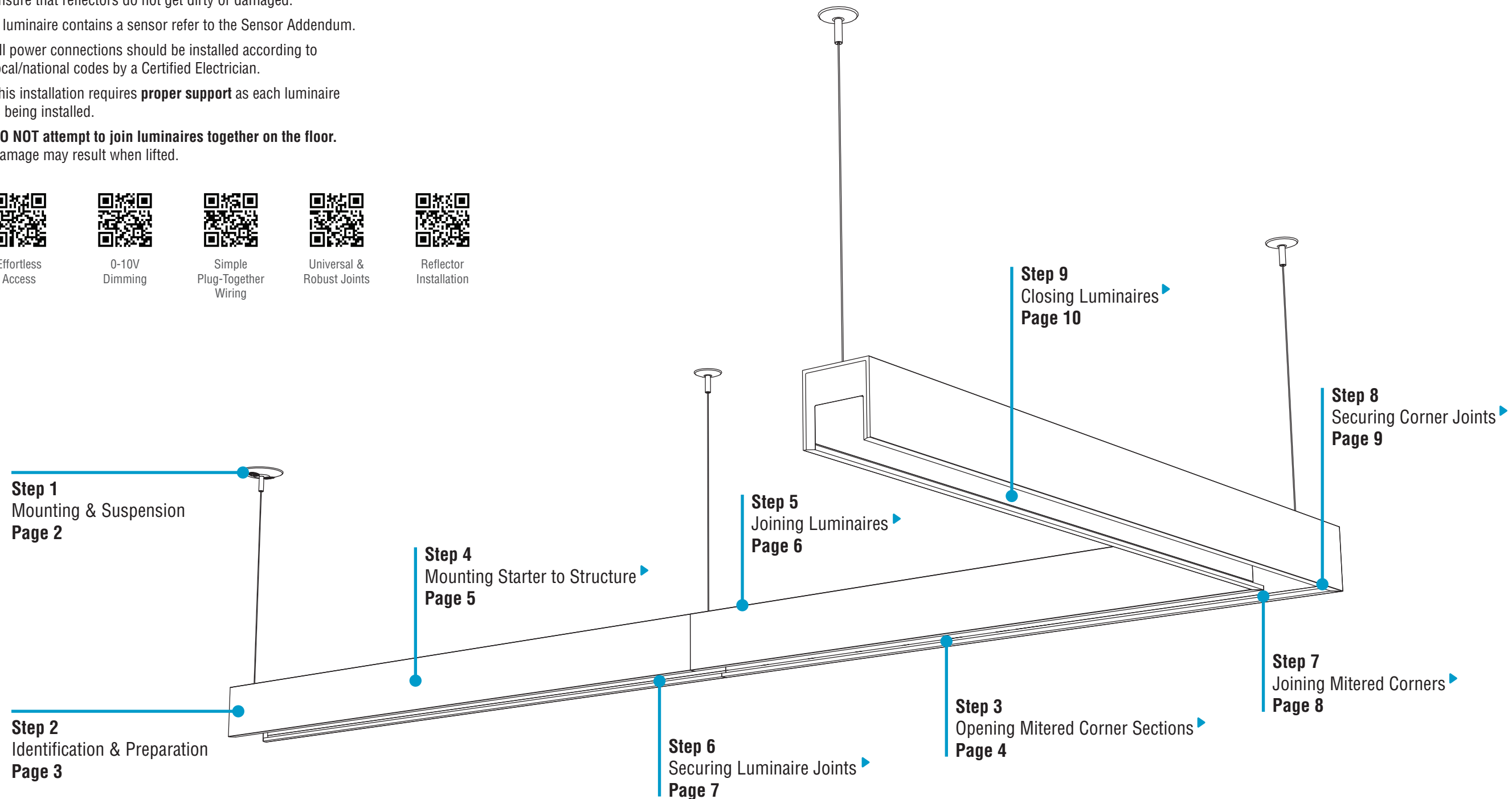
Simple
Plug-Together
Wiring



Universal &
Robust Joints



Reflector
Installation



H04 Direct with Mitered Corners Installation Instructions

Step 1 - Mounting & Suspension

Mounting Options

Option 1

T-Bar Mounting - GridBox™, Caddy Clips

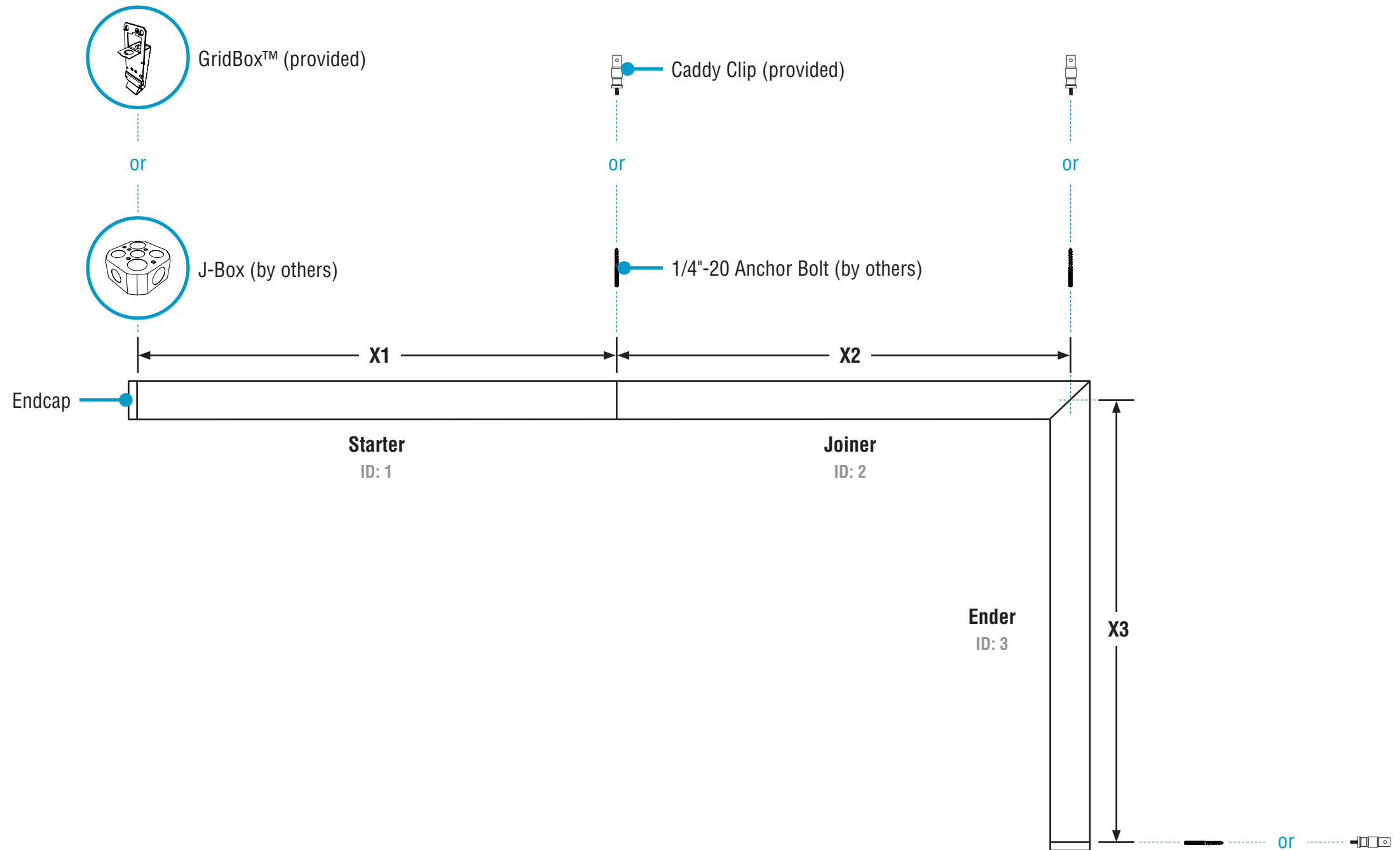
- Install GridBox™ and electrical conduit at feed locations.
- Install caddy clips at mounting point locations.
- All caddy clips are to be secured to structure, per local building codes.

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.

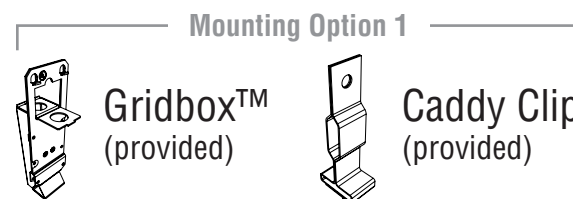
* Other hard surfaces include: wood, sheet metal panels, steel beams, concrete or masonry. Use hardware appropriate for each surface material type.



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.



H04 Direct with Mitered Corners Installation Instructions

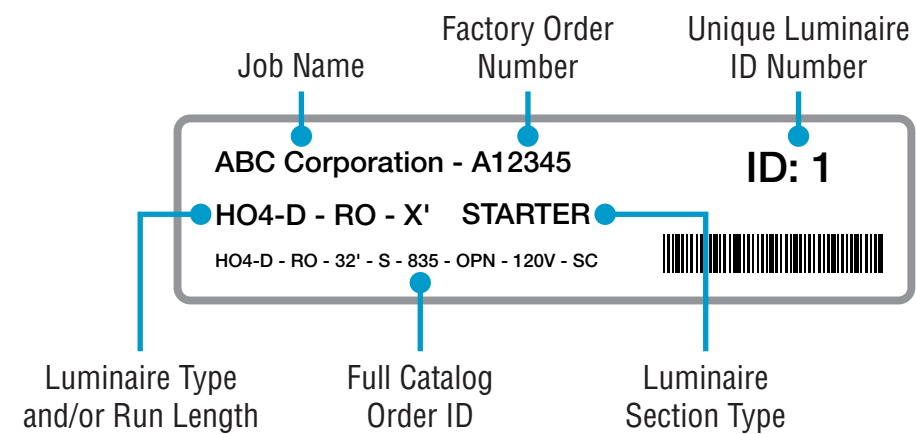
Step 2 - Identification & Preparation

A. Identify Luminaires



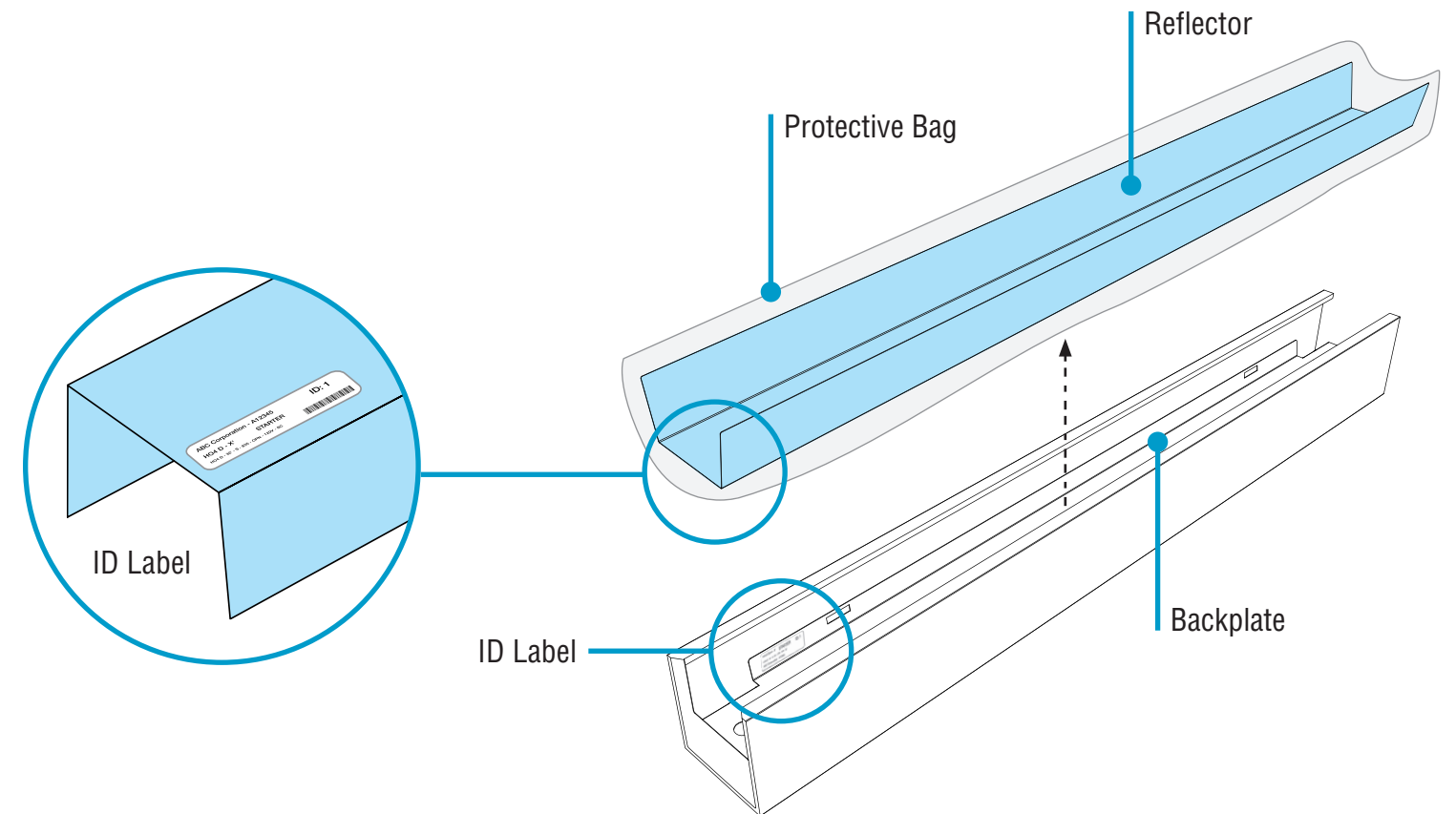
CAUTION

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, 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

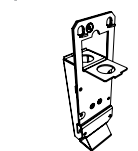


- Carefully remove all reflectors, keeping them inside their protective bags.
- Set aside all reflectors to prevent from getting dirty or damaged.
- Ensure reflectors can be clearly identified back to its corresponding luminaire.

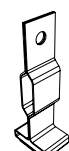
Kitted Hardware

- 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.

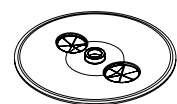
Mounting Option 1



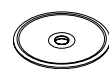
GridBox™
Part# 89159
Suspension & Mounting
p. 2, Step 1



Caddy Clip
C1 Ceiling - Part# 94001
C2 Ceiling - Part# 94020
C3 Ceiling - Part# 94029
Suspension & Mounting
p. 2, Step 1



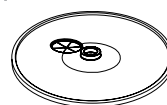
5" Dual Feed Canopy
Part# 89192



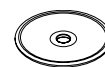
Support Canopy
Part# 89193
Mounting Starter to Structure
p. 5, Step 4
Joining Luminaires
p. 6, Step 5
Joining Mitered Corners
p. 8, Step 7

5" Feed Canopy
Part# 94108
Mounting Starter to Structure
p. 5, Step 4
Joining Luminaires
p. 6, Step 5
Joining Mitered Corners
p. 8, Step 7

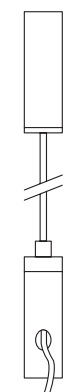
Mounting Option 2



5" Feed Canopy
Part# 94108
Mounting Starter to Structure
p. 5, Step 4
Joining Luminaires
p. 6, Step 5
Joining Mitered Corners
p. 8, Step 7



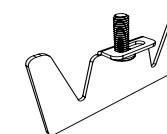
Support Canopy
Part# 89193
Mounting Starter to Structure
p. 5, Step 4
Joining Luminaires
p. 6, Step 5
Joining Mitered Corners
p. 8, Step 7



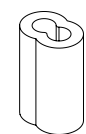
Cable Bushing
Part# 94014

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# 94139
Securing Luminaire Joints
p. 7, Step 6
Securing Corner Joints
p. 9, Step 8



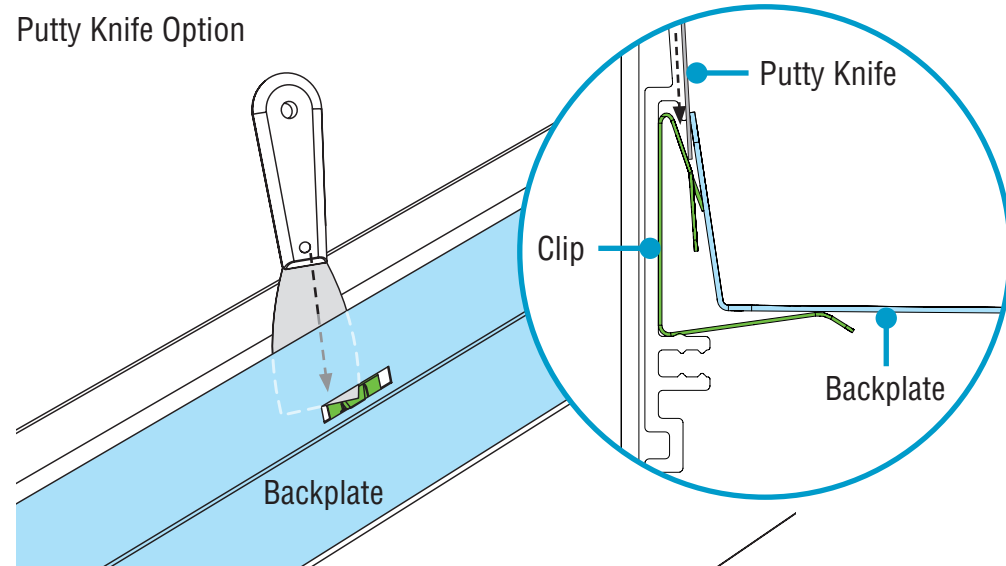
Safety Crimp
Part# 94514
Closing Luminaires
p. 10, Step 9

H04 Direct with Mitered Corners Installation Instructions

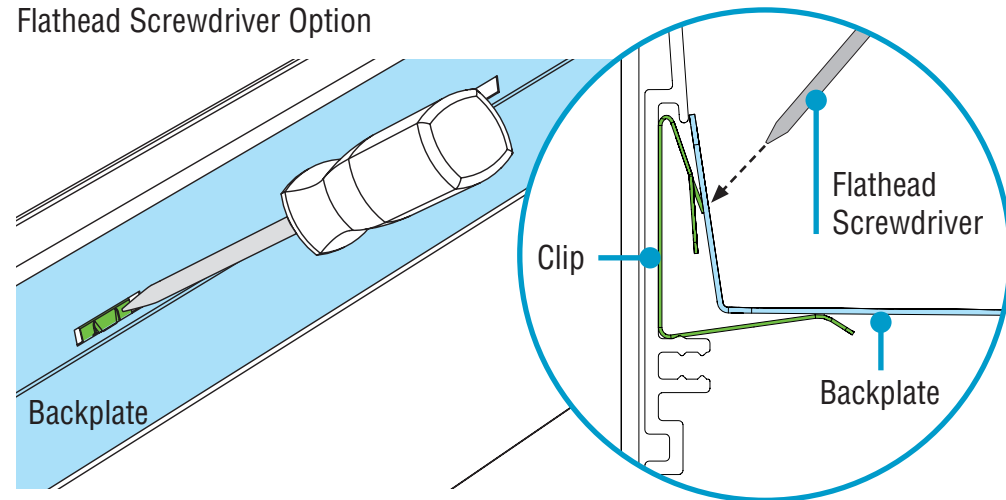
Step 3 - Opening Mitered Corner Sections

A. Release Mitered Corner Backplates Top-Down View

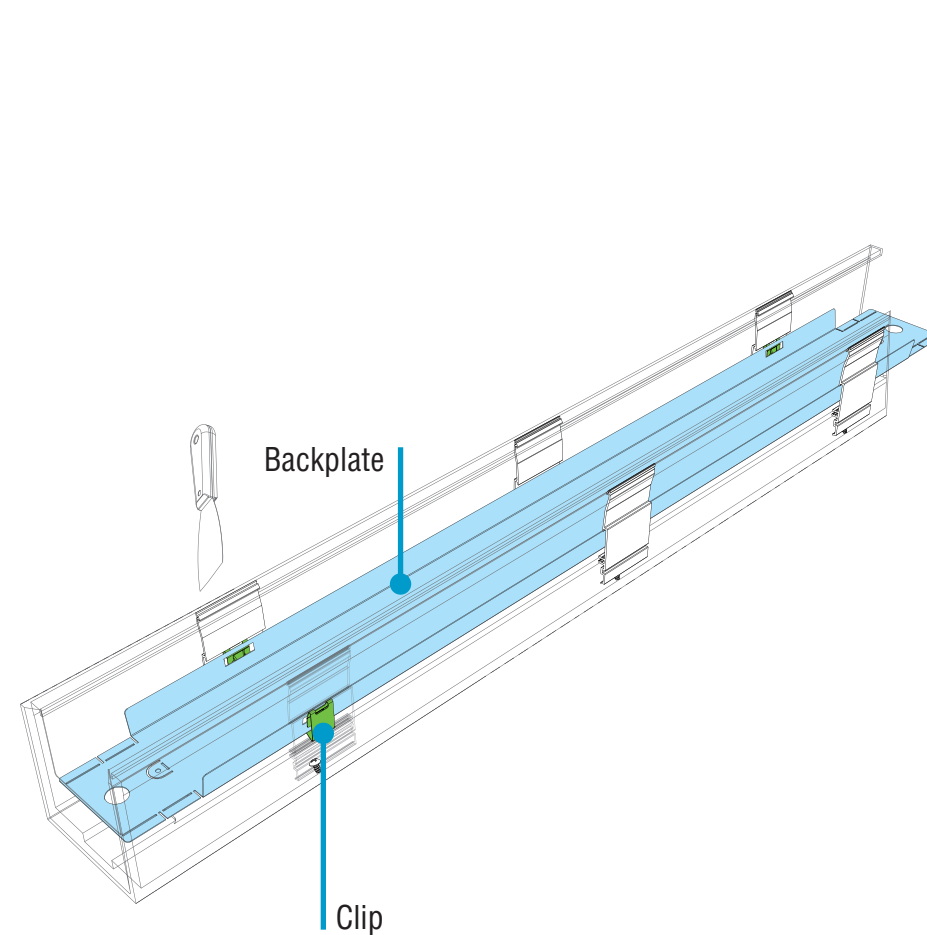
Putty Knife Option



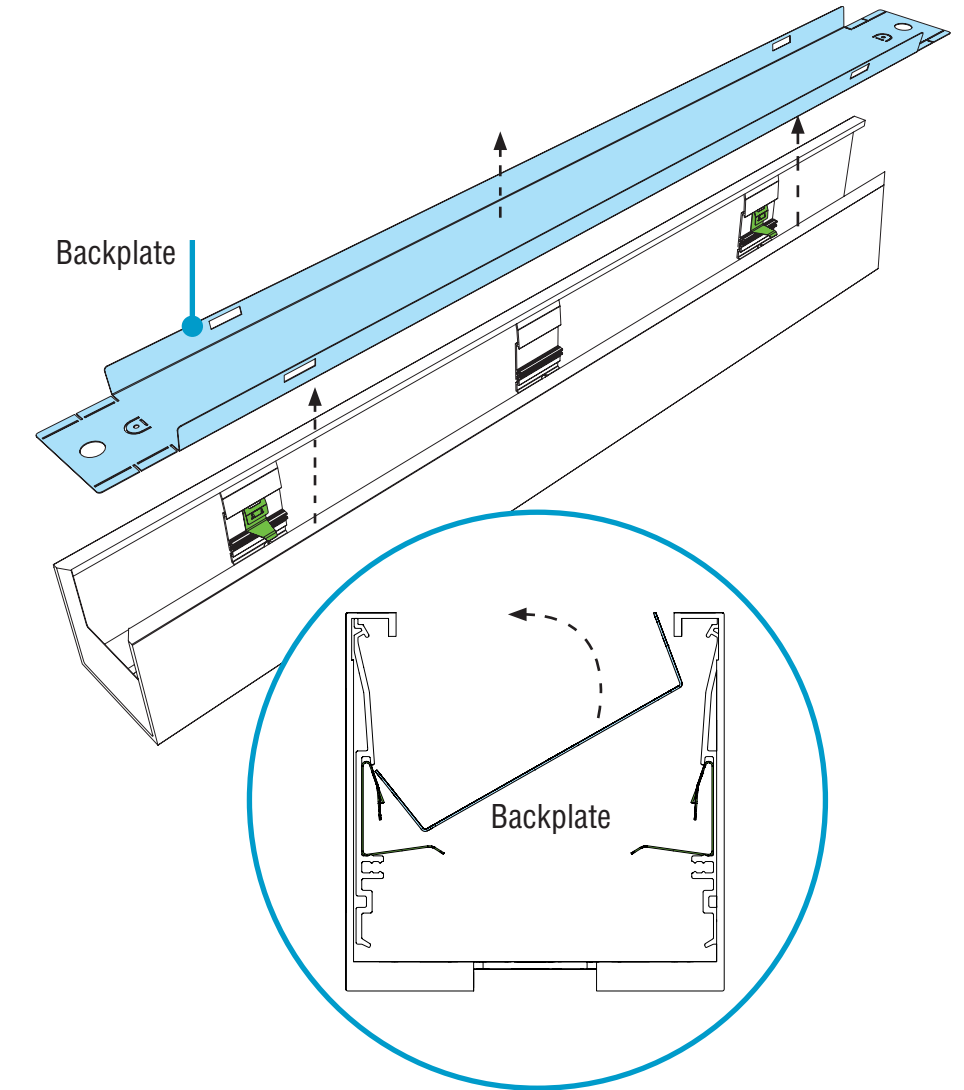
Flathead Screwdriver Option



- 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.



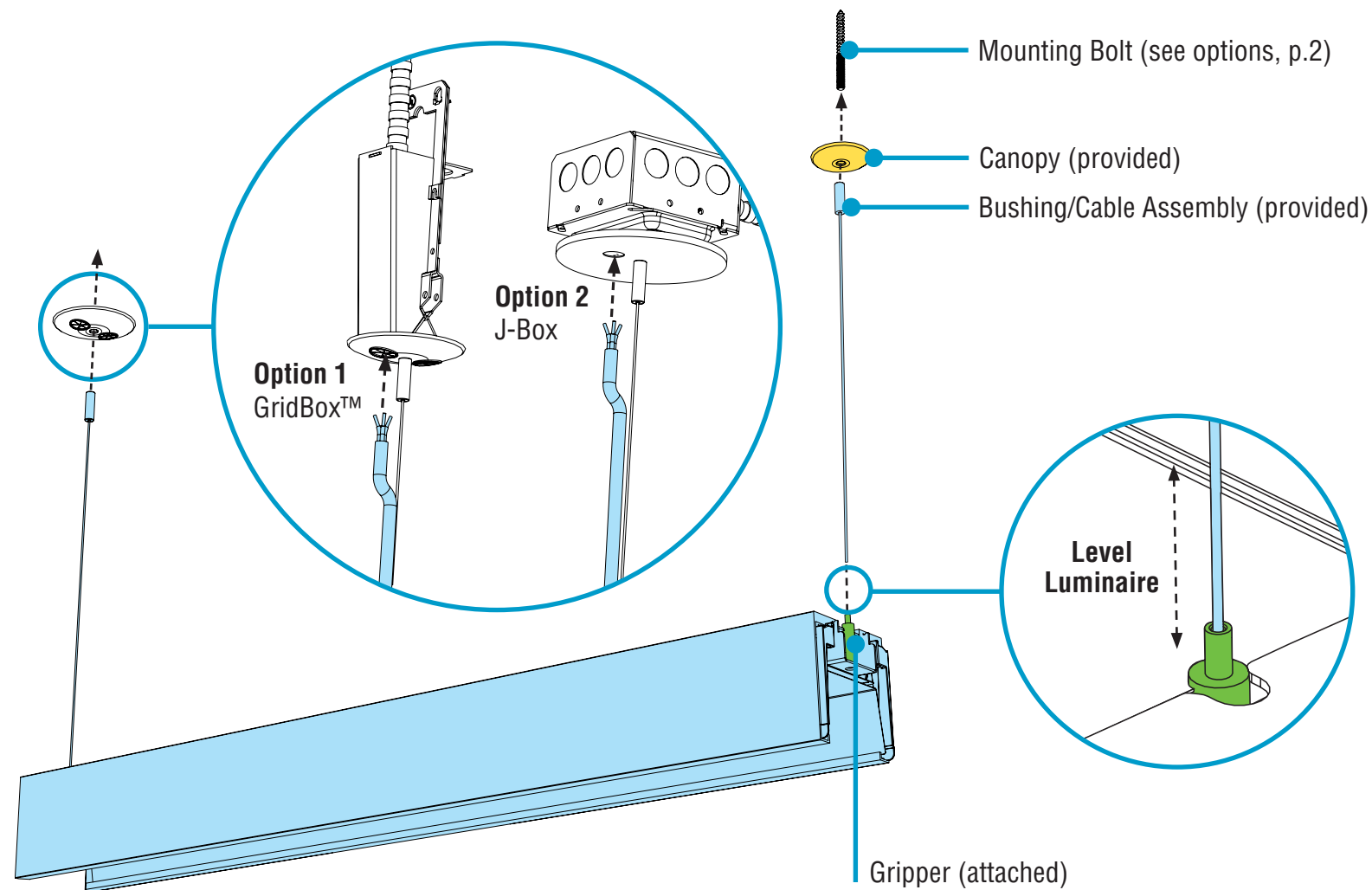
Effortless
Access

H04 Direct with Mitered Corners Installation Instructions

Step 4 - Mounting Starter to Structure

Mount Starter to Structure Bottom-Up View

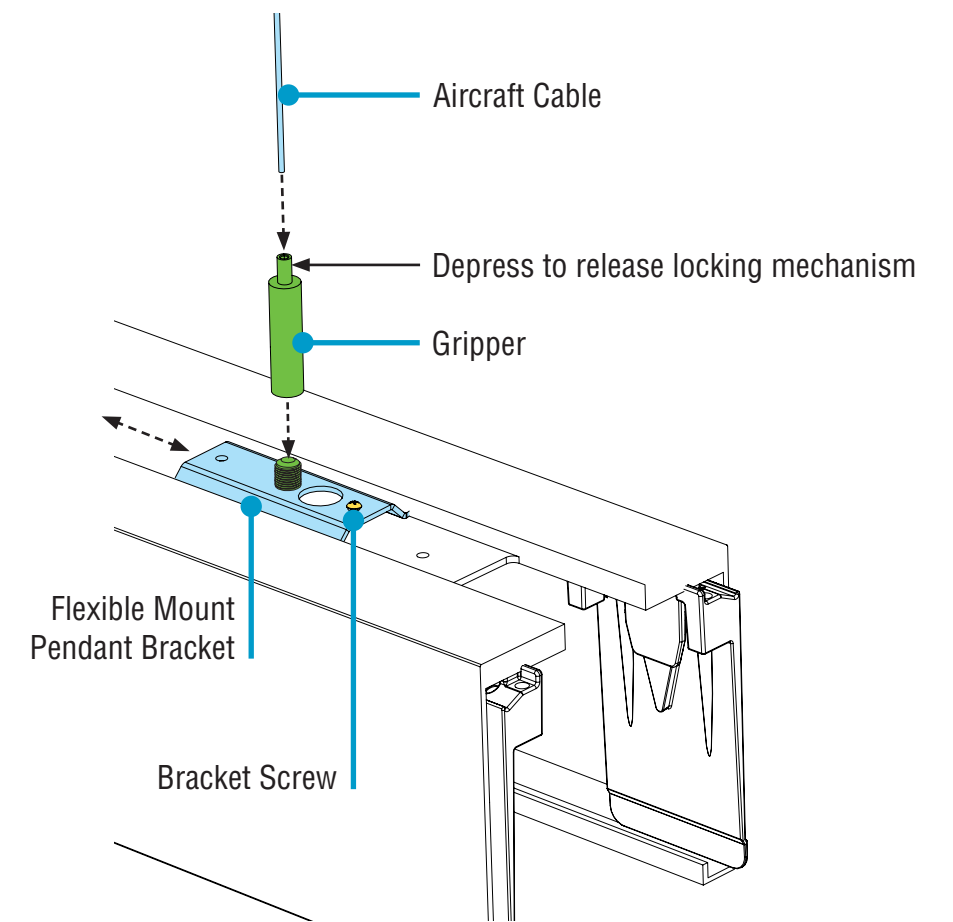
WIRING LEGEND		
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC



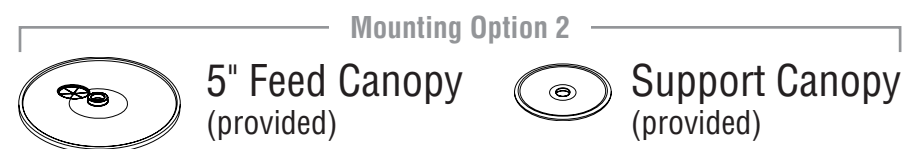
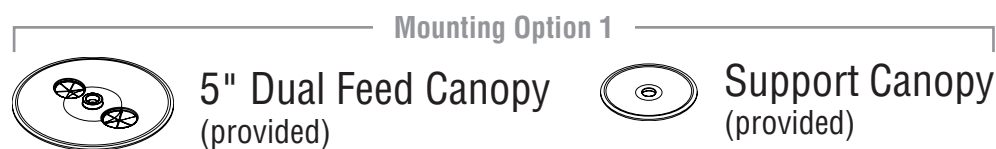
- Slide canopy appropriate for electrical type onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting bolt at both ends.
- While properly supporting luminaire, maneuver luminaire to ceiling.
- Locate gripper at luminaire ends and feed end of aircraft cable through it by depressing top of gripper.
- Feed power cord through canopy knockout and connect wires inside GridBox™ (Option 1) or J-Box (Option 2).
- **CRITICAL:** If installing mitered corner to starter, **PROCEED TO STEP 7, PAGE 8.**

Optional Flexible Mount

Adjustable pendant brackets for flexible mounts are adjustable for custom mounting locations.



- **Loosen (but do not remove)** the bracket screw.
- Slide flexible mount pendant bracket to desired location.
- Tighten the screw to secure.
- Install gripper, aircraft cable and bushing to the bracket stud.
- Allow excess cable to rest atop luminaire. Crimp then trim, if necessary.

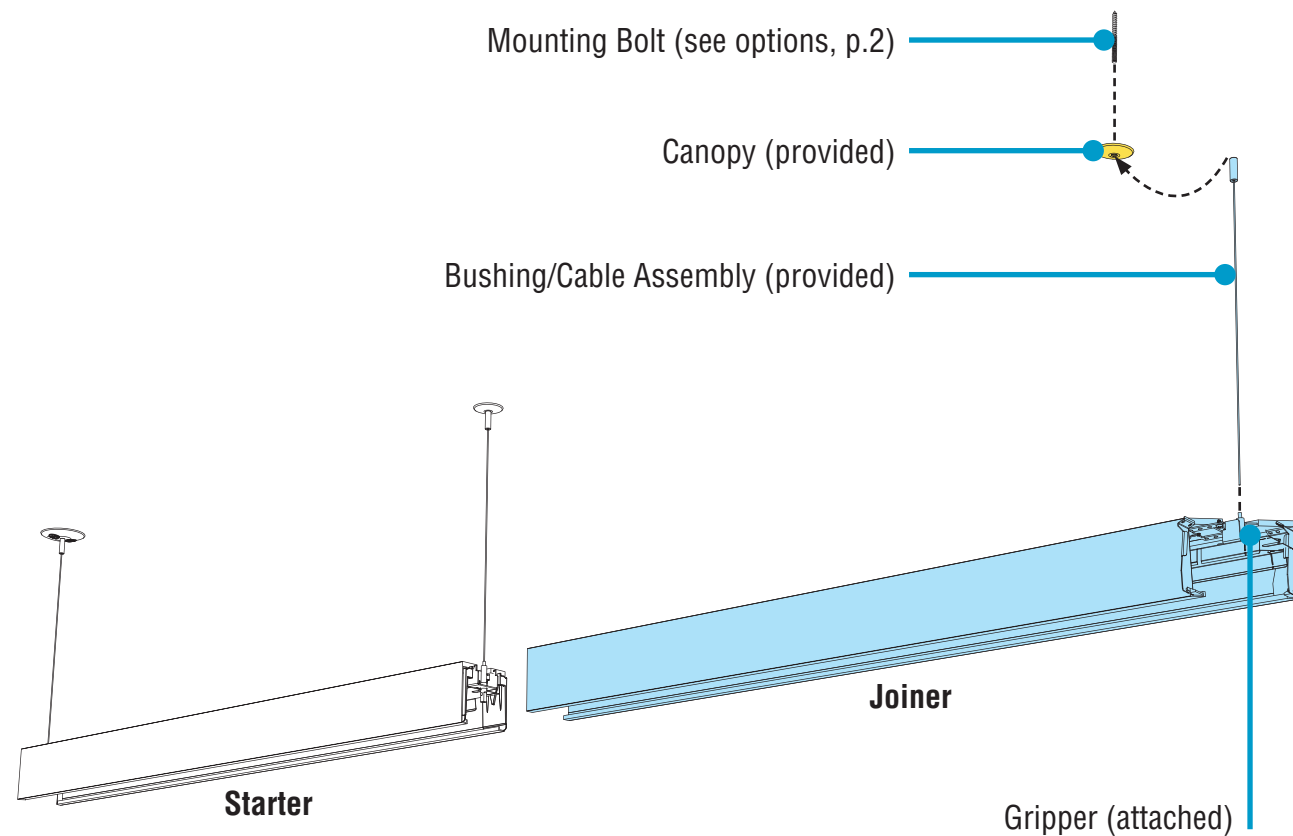


0-10V Dimming

H04 Direct with Mitered Corners Installation Instructions

Step 5 - Joining Luminaires

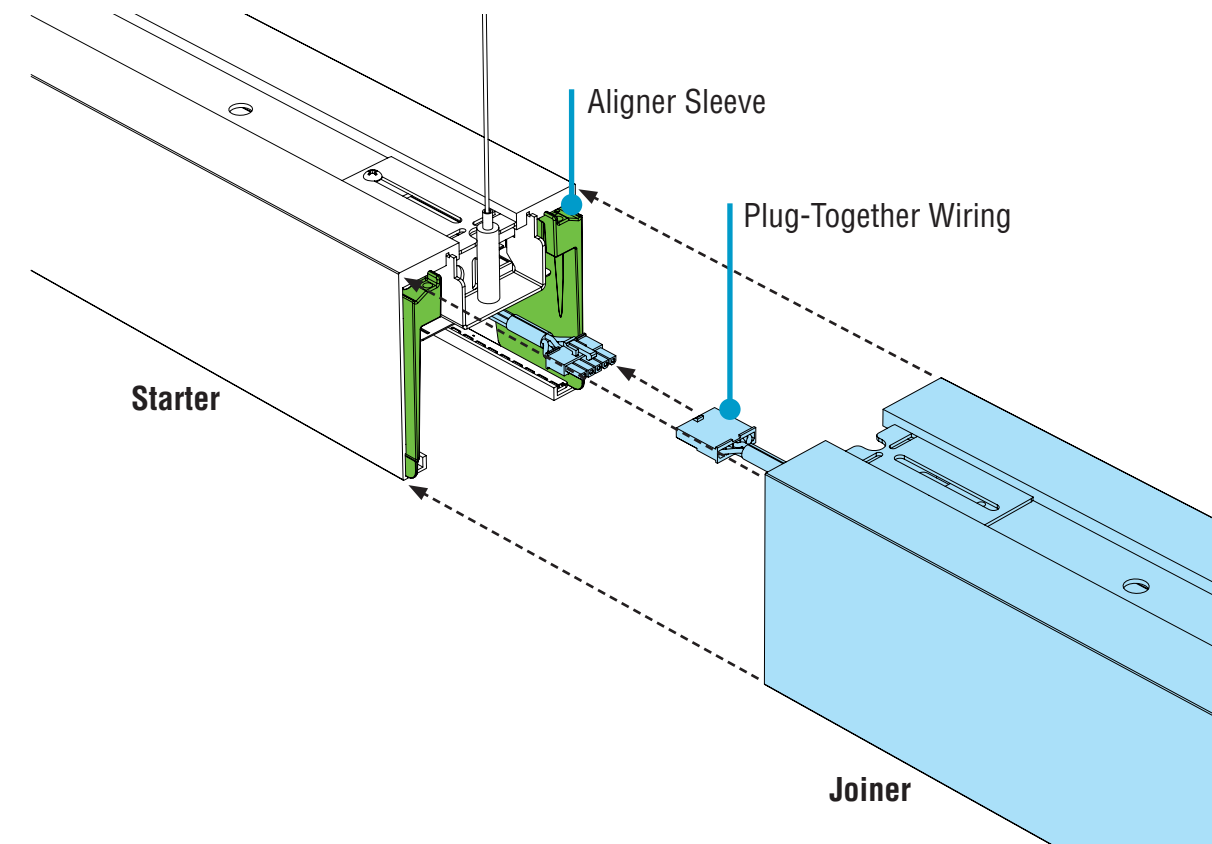
A. Mount Joiner to Structure Bottom-Up View



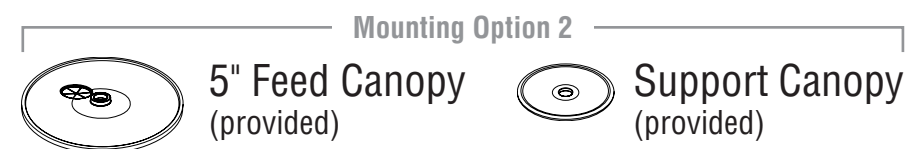
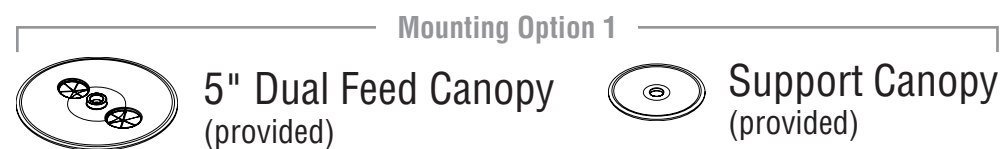
- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 4 of Sensor Addendum before joining luminaires.
- For the joiner luminaire, slide canopy appropriate for electrical type onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting bolt.
- 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. Make Electrical Connections 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.



- Connect plug-together wiring.
- Align joiner with aligner sleeves on starter and slide together. Be careful not to damage any wiring.
- Level joining luminaire by raising or lowering the far end of the joining luminaire. **DO NOT** proceed to install yoke brackets if luminaire ends at the joint are not flush.

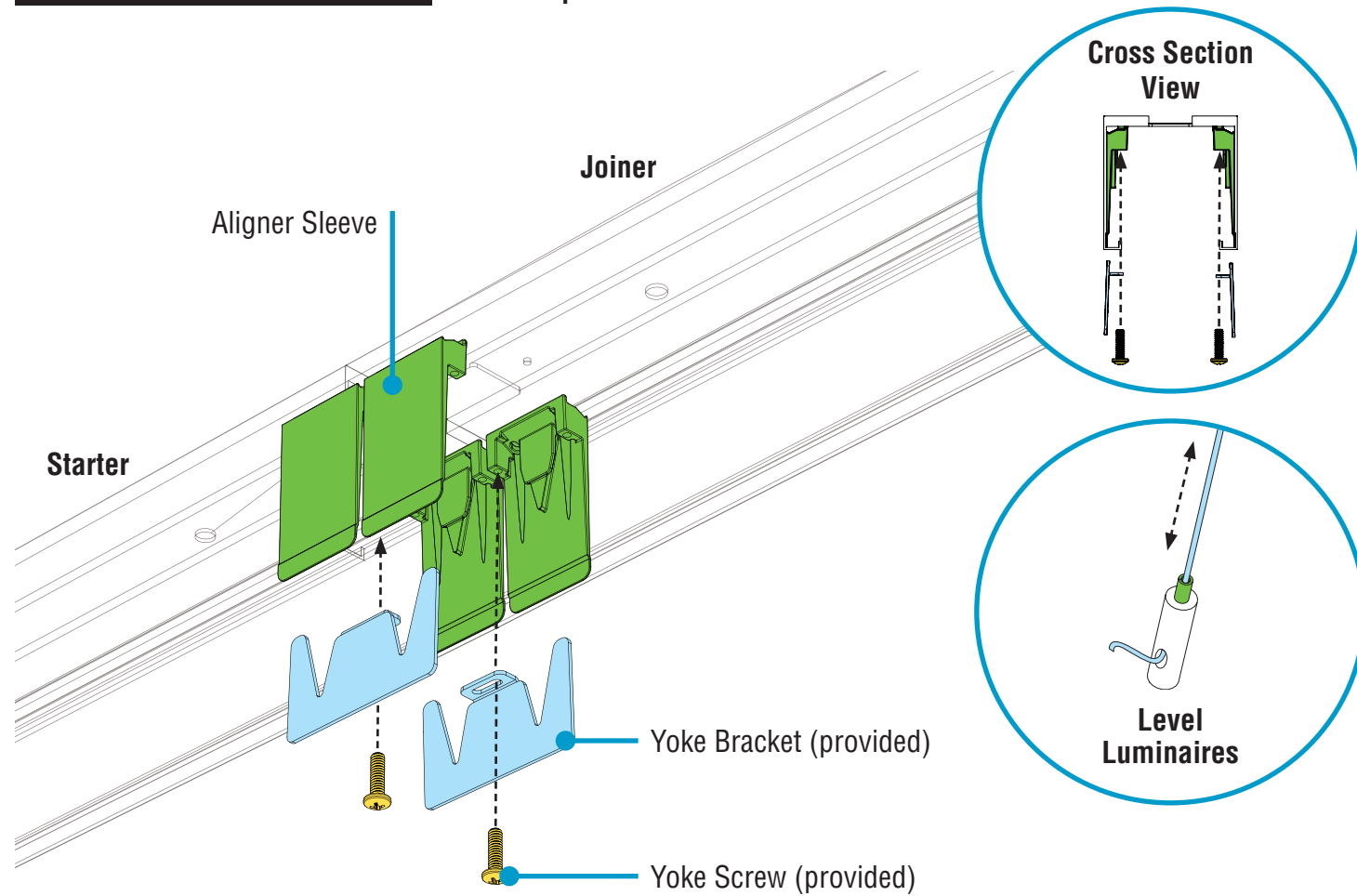


Simple Plug-Together Wiring

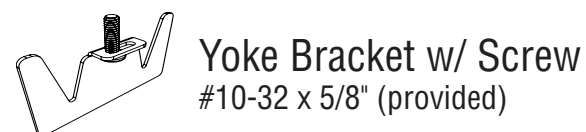
H04 Direct with Mitered Corners Installation Instructions

Step 6 - Securing Luminaire Joints

Secure Joint with Yoke Brackets Bottom-Up View

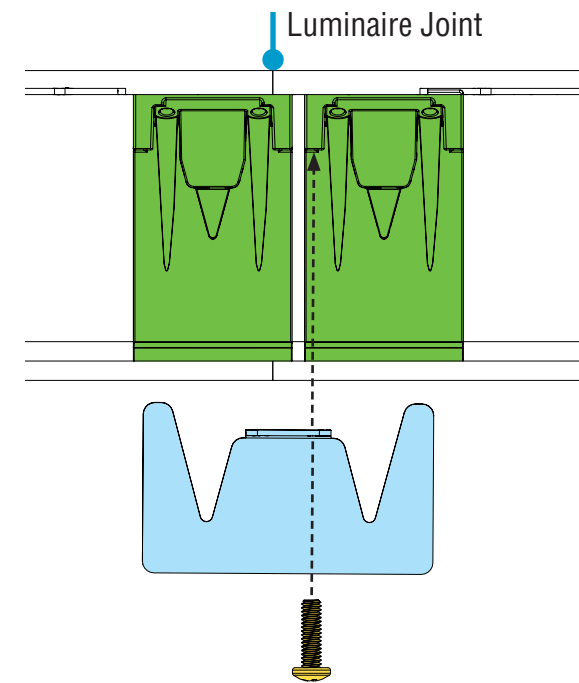


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by threading (but not yet tightening) yoke screws through yoke brackets and into the aligner sleeves.
- Level all luminaires to desired height by depressing top of grippers to adjust cable lengths.
- Tighten yoke screws¹ until joint seam of luminaires is closed.

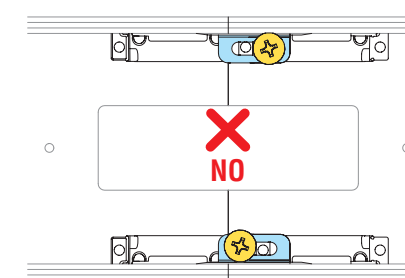


¹ Screwdriver with 6" bit required.

IN ALIGNMENT

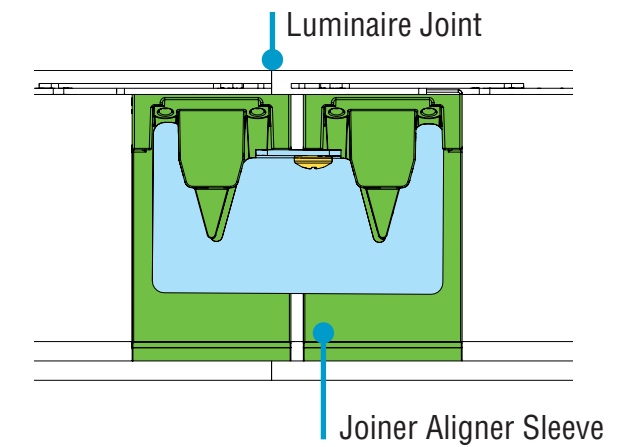


YOKE SCREW ALIGNMENT Bottom-Up View

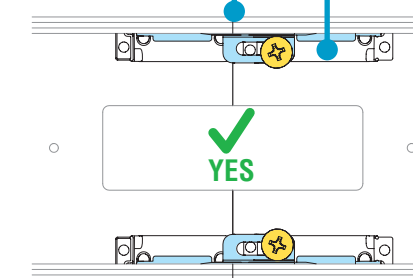


NOTE: Yoke screws should be installed directly across from each other, not diagonally, and in holes furthest from the joint line. One yoke screw per one yoke bracket.

CORRECTLY INSTALLED



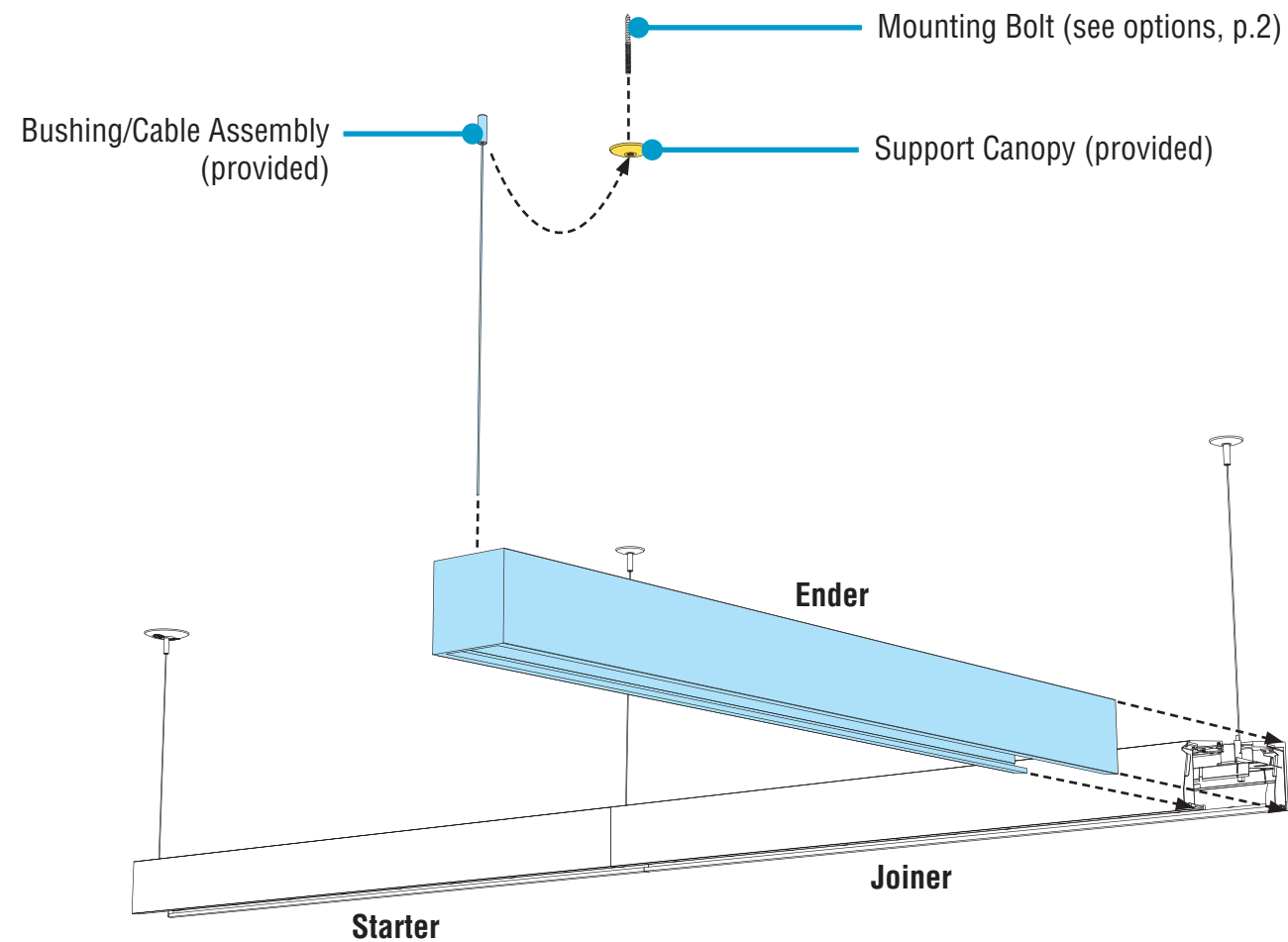
Luminaire Joint **Joiner Aligner Sleeve**



H04 Direct with Mitered Corners Installation Instructions

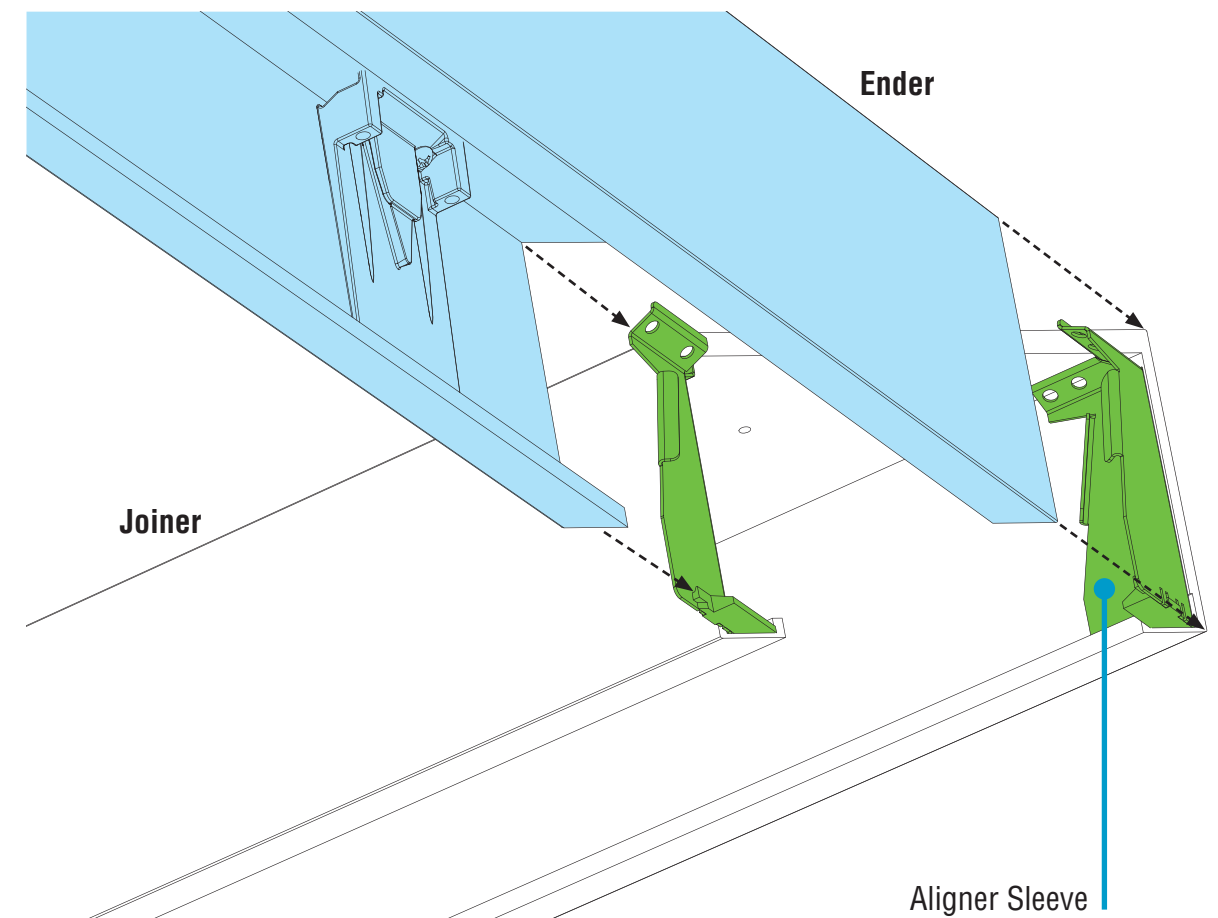
Step 7 - Joining Mitered Corners

A. Mount Ender to Structure Bottom-Up View

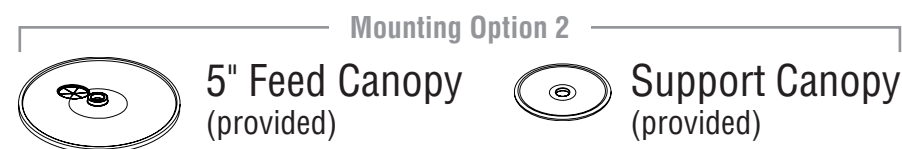
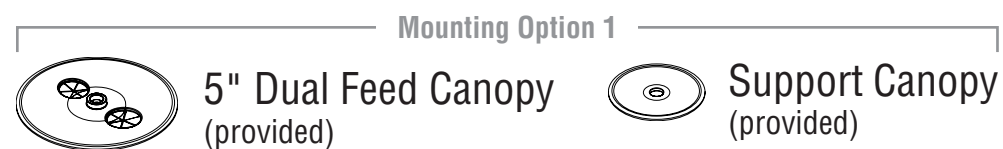


- For the mitered ender luminaire, slide canopy onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting bolt.
- While properly supporting luminaire, maneuver luminaire to ceiling.
- Locate gripper at luminaire ends and feed aircraft cable through it by depressing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

B. Join Mitered Corners Bottom-Up View



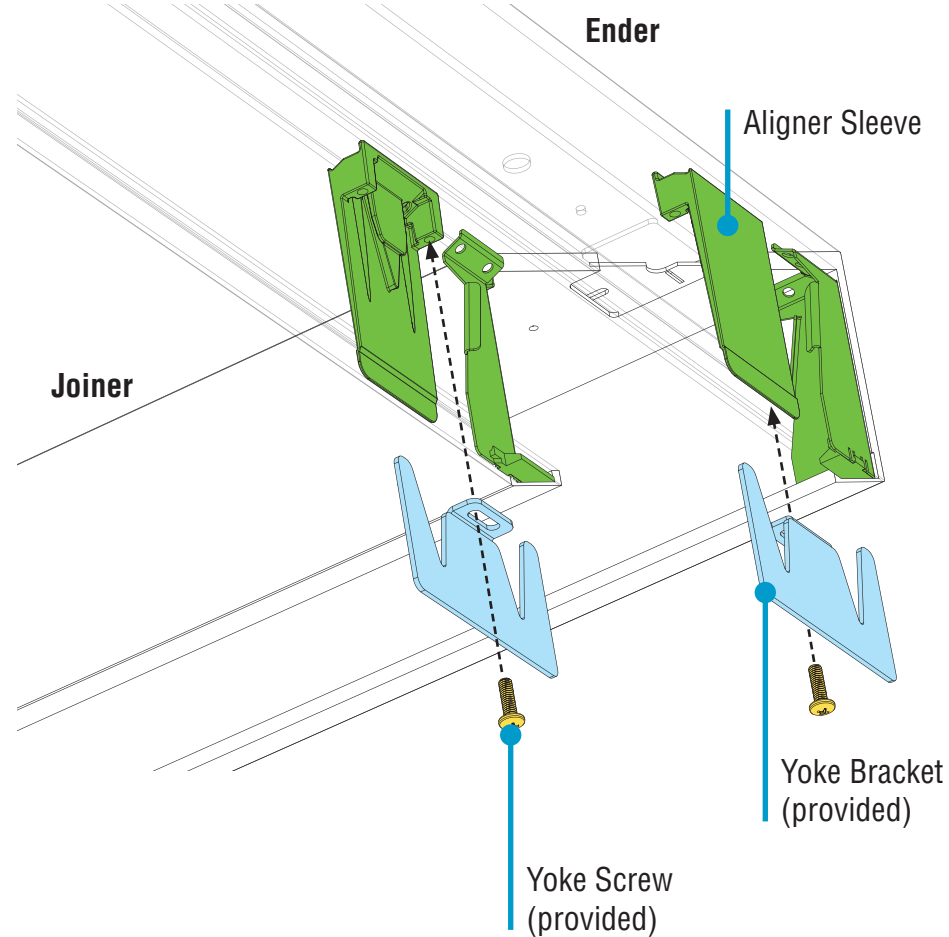
- Align mitered ender luminaire with aligner sleeves on joiner and slide together. Be careful not to damage any wiring.
- If necessary, **lift** both luminaires, then slide together.



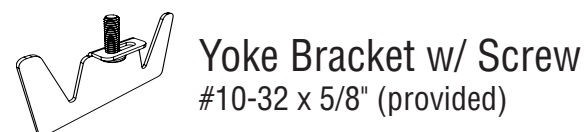
H04 Direct with Mitered Corners Installation Instructions

Step 8 - Securing Corner Joints

A. Secure Joint with Yoke Brackets Bottom-Up View

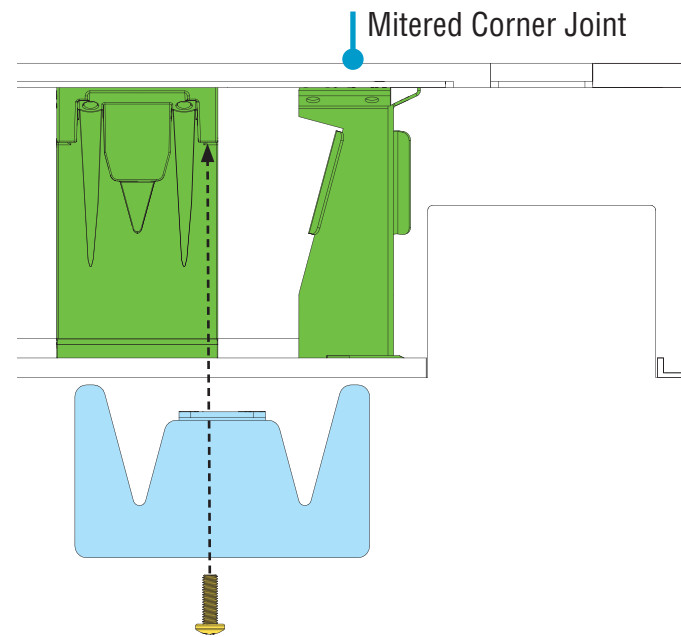


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by threading (but not yet tightening) yoke screws through yoke brackets and into the aligner sleeves.
- Level all luminaires to desired height by depressing top of grippers to adjust cable lengths.
- Tighten yoke screws¹ until joint seam of luminaires is closed.

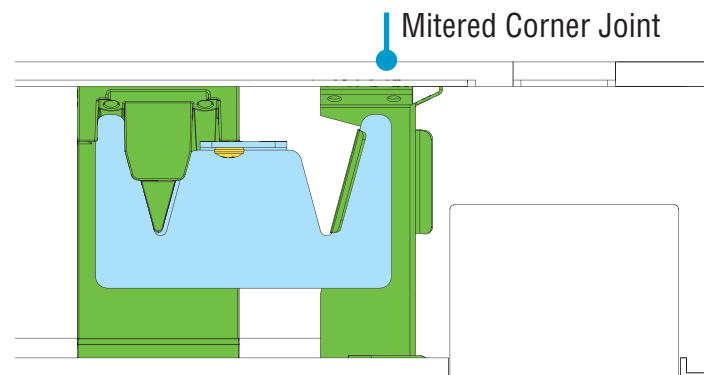


¹ Screwdriver with 6" bit required.

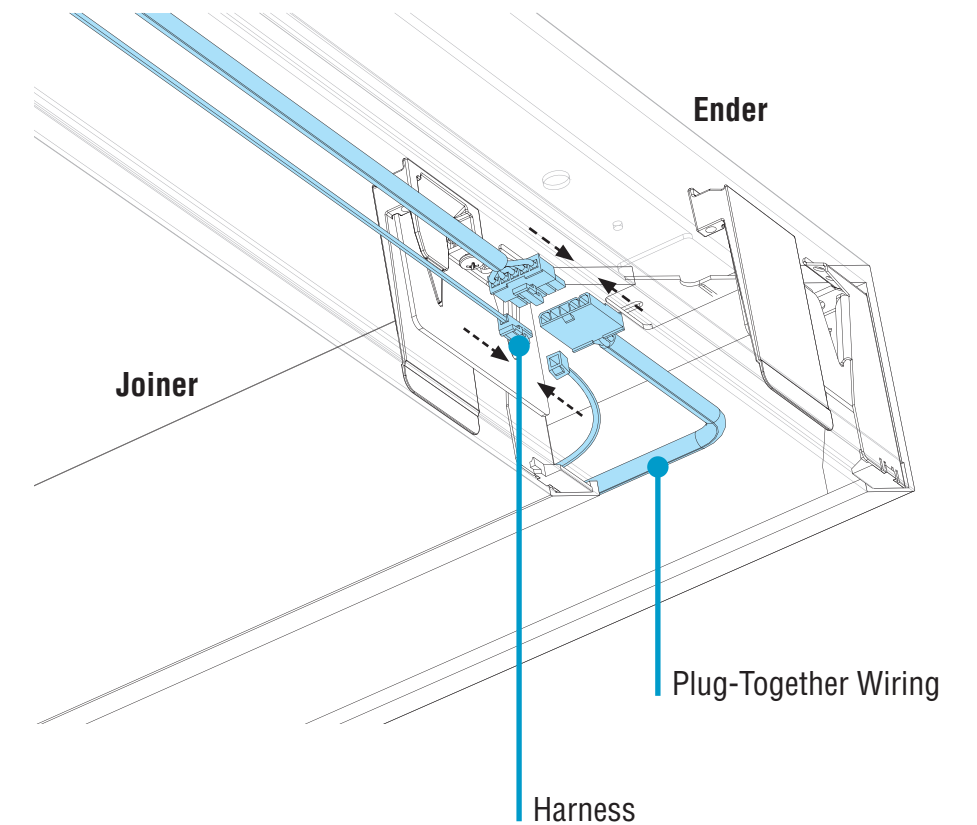
IN ALIGNMENT



CORRECTLY INSTALLED



B. Make Electrical Connections Bottom-Up View



- Connect plug-together wiring and LED harness.

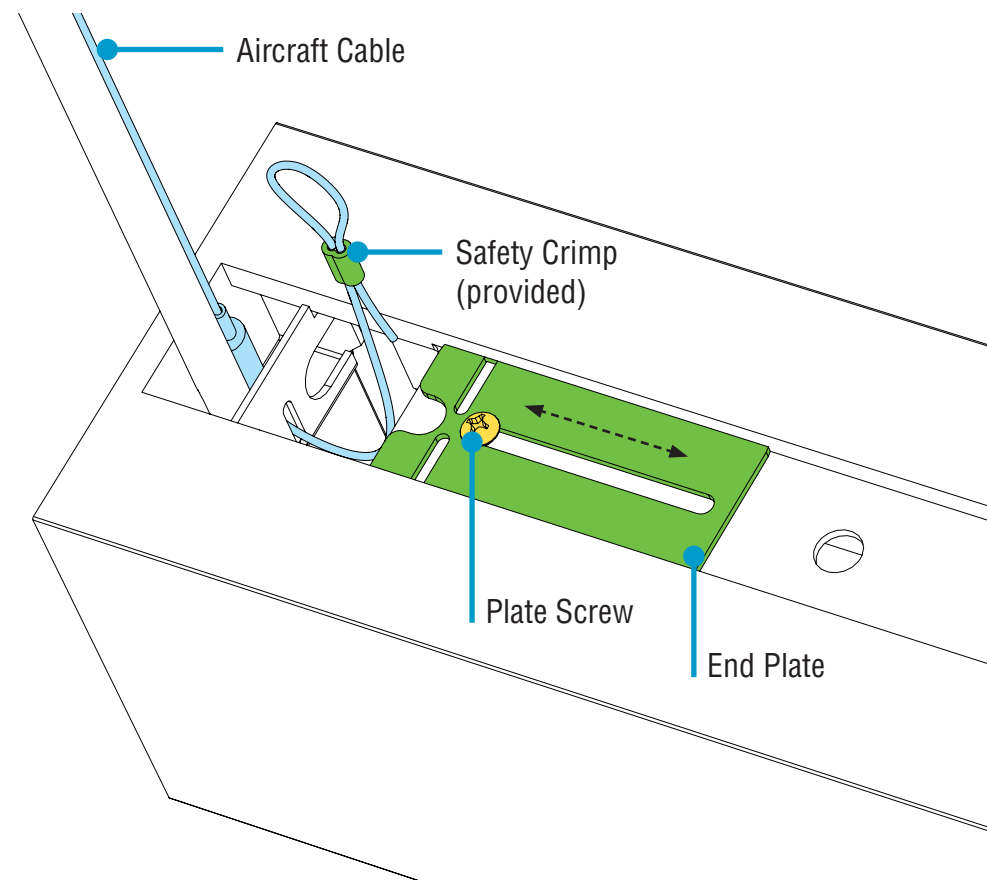


Simple
Plug-Together
Wiring

H04 Direct with Mitered Corners Installation Instructions

Step 9 - Closing Luminaires

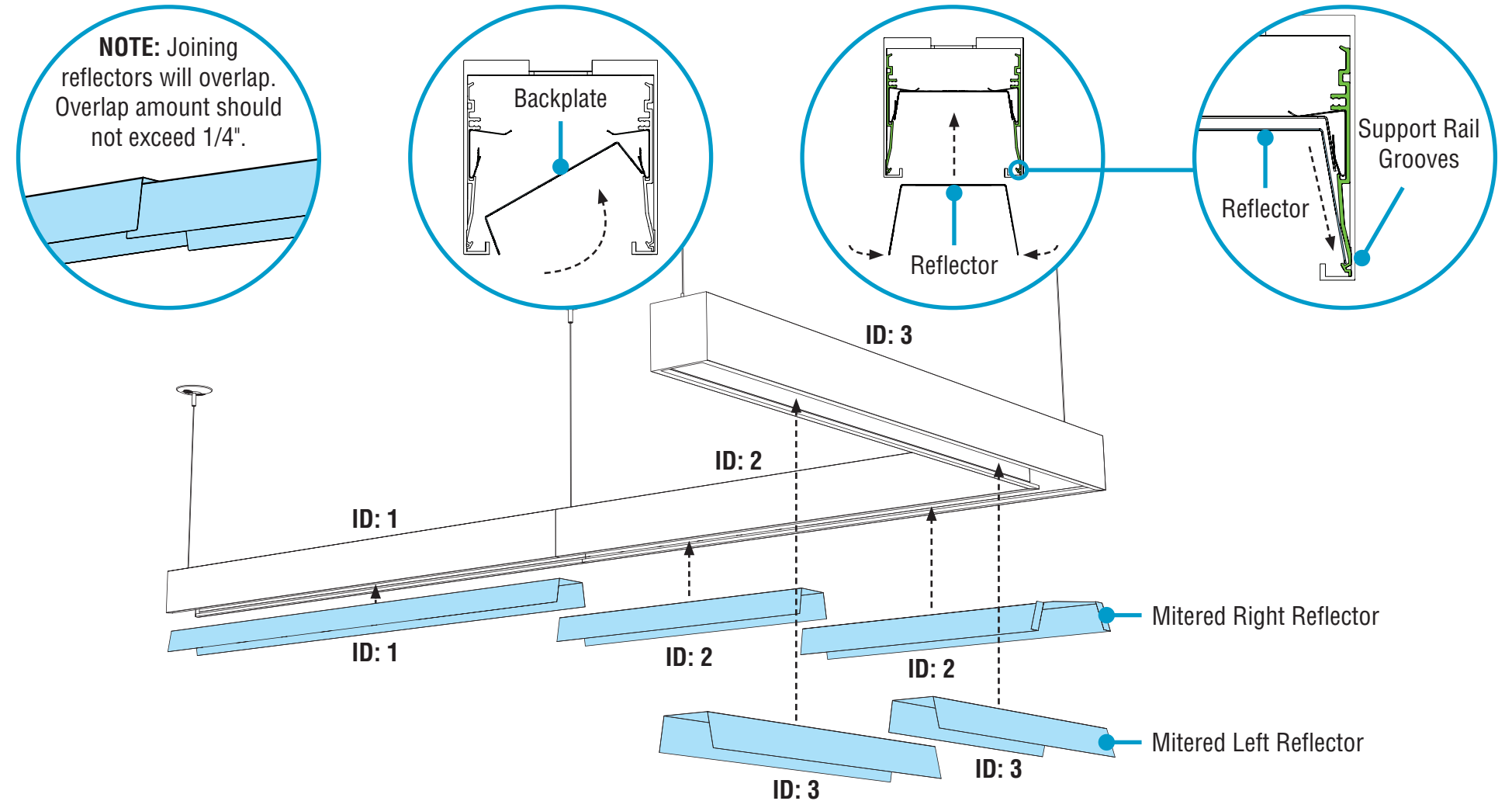
A. Crimp Cables Top-Down View



- 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.



B. Final Step - Install Backplates & Reflectors Bottom-Up View



- **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.
- **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.
- Remove reflectors from protective plastic bag 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 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