

H04 Direct 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



0-10V
Dimming



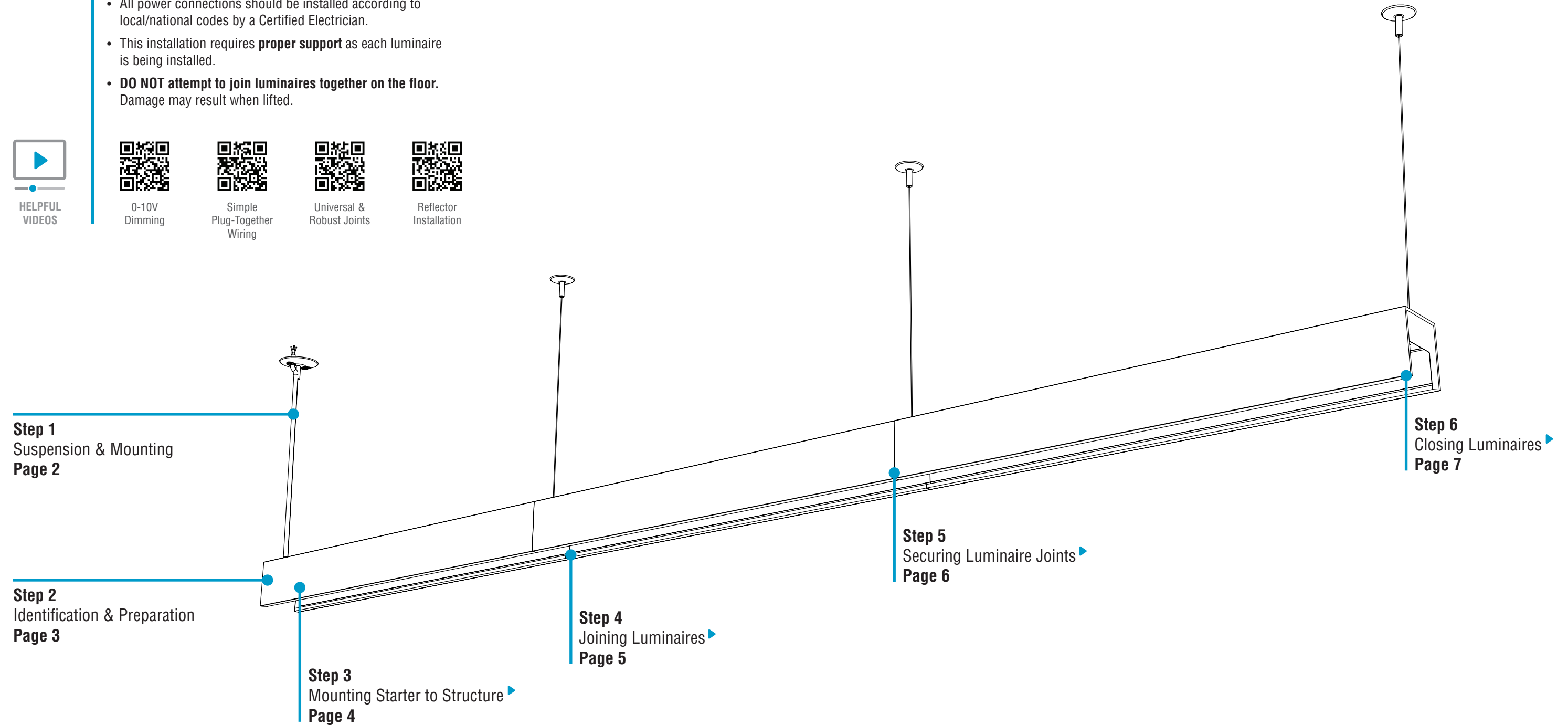
Simple
Plug-Together
Wiring



Universal &
Robust Joints



Reflector
Installation



H04 Direct Installation Instructions

Step 1 - Suspension & Mounting

Mounting Options

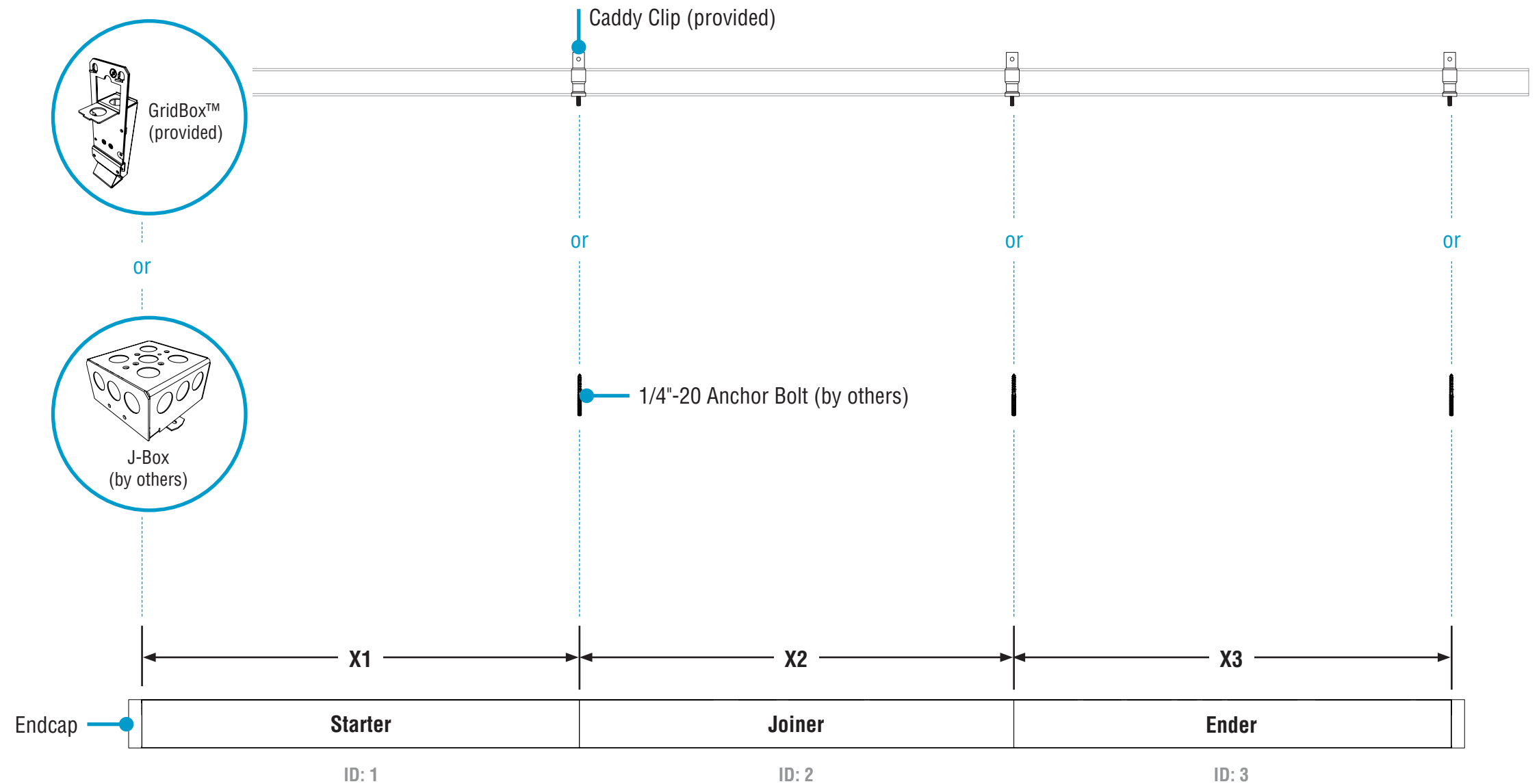
Option 1 T-Bar Mounting - GridBox™, Caddy Clips

- 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.

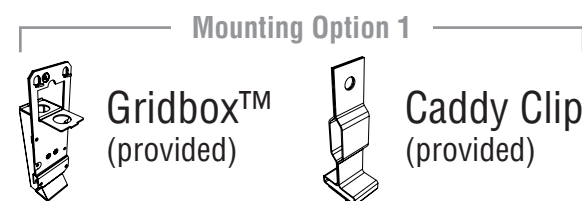
* Other hard surfaces include: wood, sheet metal panels, steel beams, concrete or masonry. Use hardware appropriate for each surface material type.



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.



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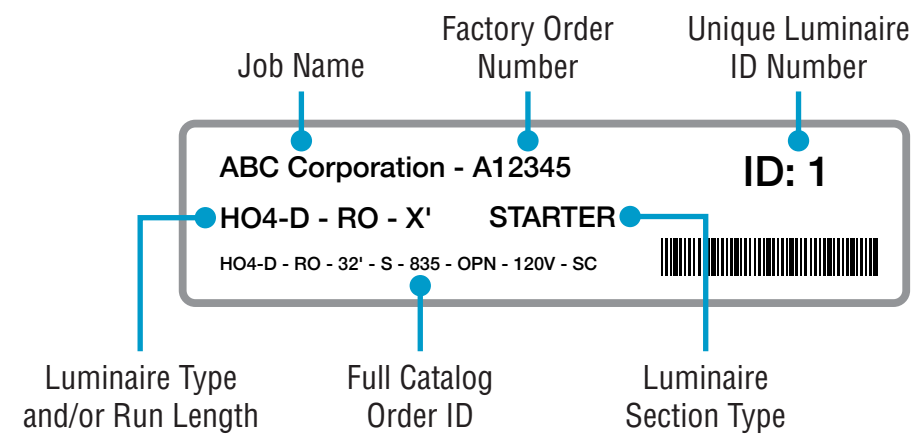
Step 2 - Identification & Preparation

A. Identify Luminaires



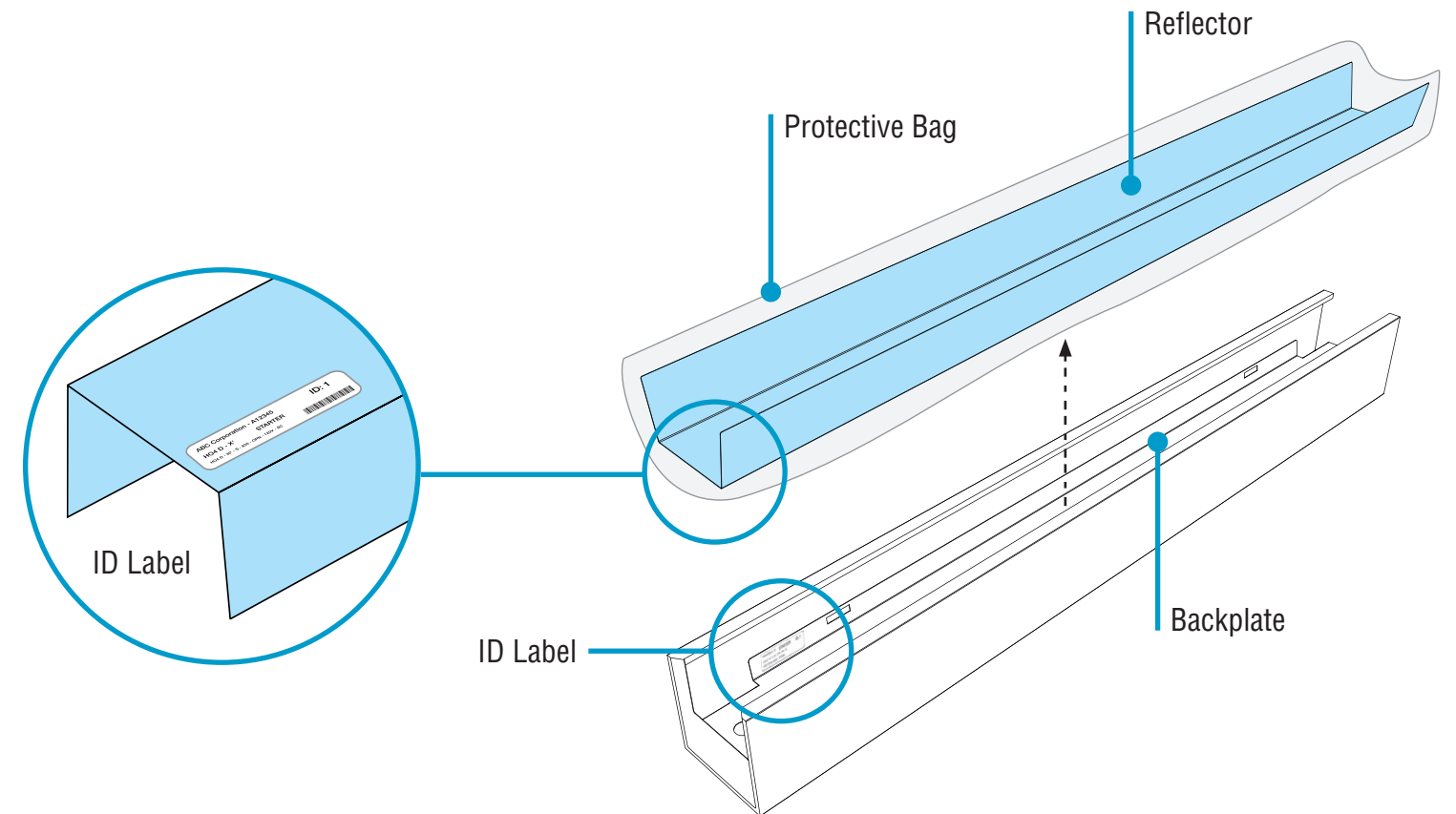
CAUTION

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

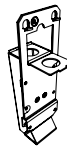


- Carefully remove all reflectors, keeping them inside their protective bags.
- Set aside all reflectors to prevent from getting dirty or damaged.
- Ensure reflectors can be clearly identified back to its corresponding luminaire.

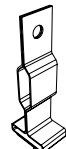
Kitted Hardware

- 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.

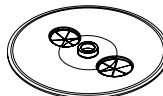
Mounting Option 1



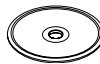
GridBox™
Part# 89159
Suspension & Mounting
p. 2, Step 1



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

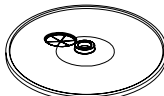


5" Dual Feed Canopy
Part# 89192
5" Feed Canopy
Part# 94108
Mounting Starter to Structure
p. 4, Step 3




Support Canopy
Part# 89193
Mounting Starter to Structure
p. 4, Step 3


Mounting Option 2




5" Feed Canopy
Part# 94108
Mounting Starter to Structure
p. 4, Step 3




Support Canopy
Part# 89193
Mounting Starter to Structure
p. 4, Step 3
Joining Luminaires
p. 5, Step 4



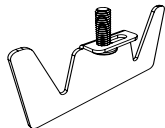
Cable Bushing
Part# 94014



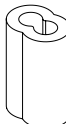
Aircraft Cable
50" - Part# 94515-12 (Std.)
100" - Part# 94515-14
150" - Part# 94515-18



Cable Gripper
Part# 68129
Mounting Starter to Structure
p. 4, Step 3
Joining Luminaires
p. 5, Step 4



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



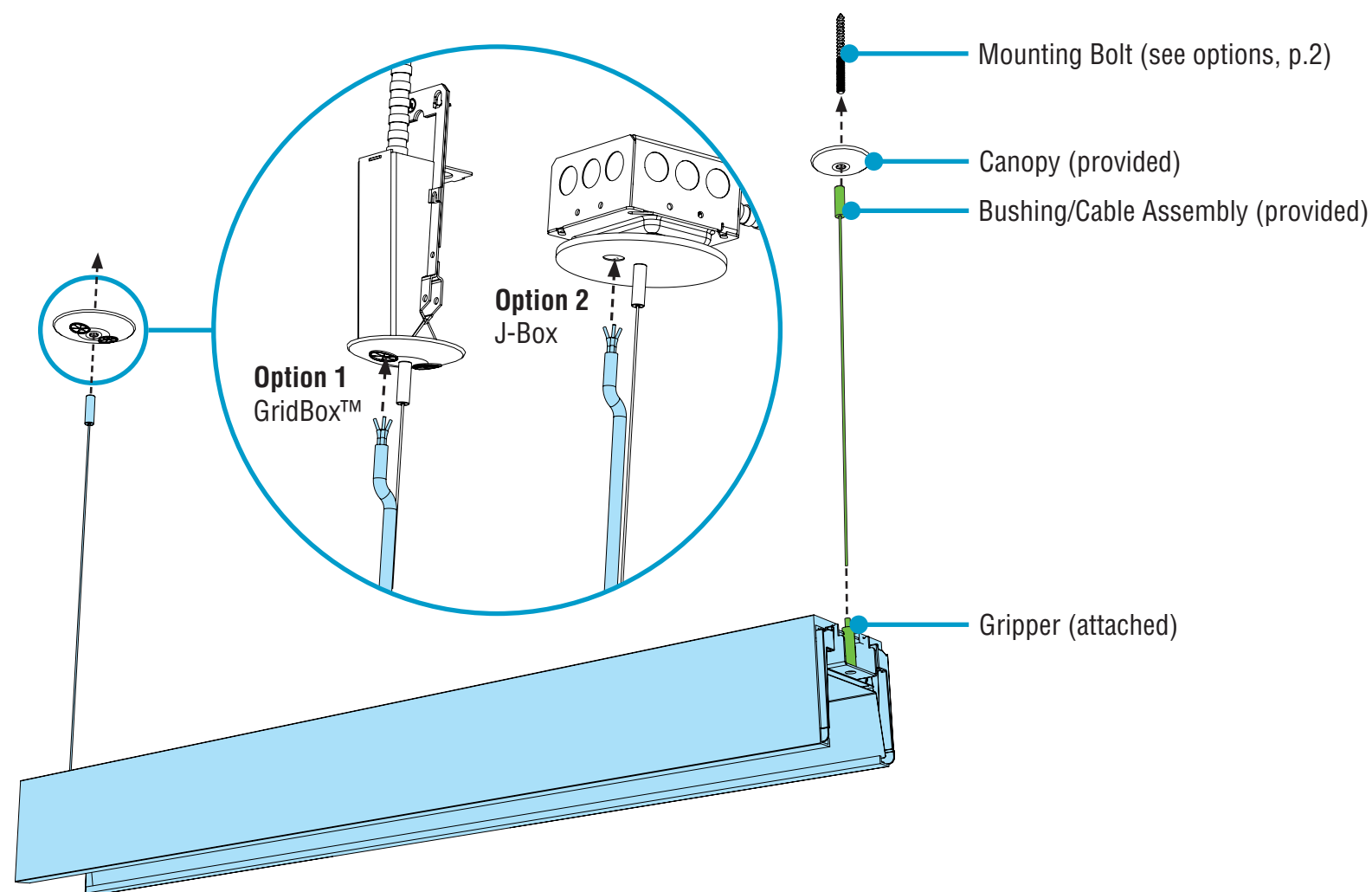
Safety Crimp
Part#94514
Closing Luminaires
p. 7, Step 6

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Step 3 - Mounting Starter to Structure

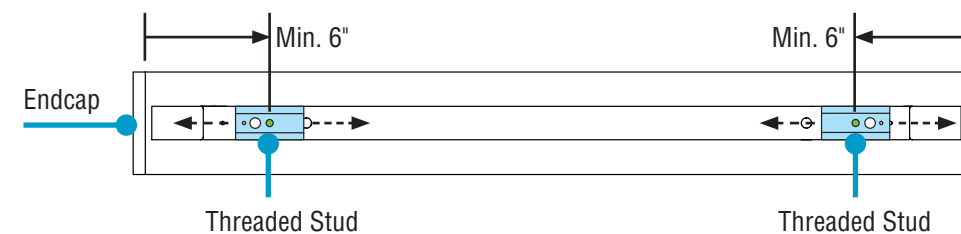
Mount Starter to Structure Bottom-Up View

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



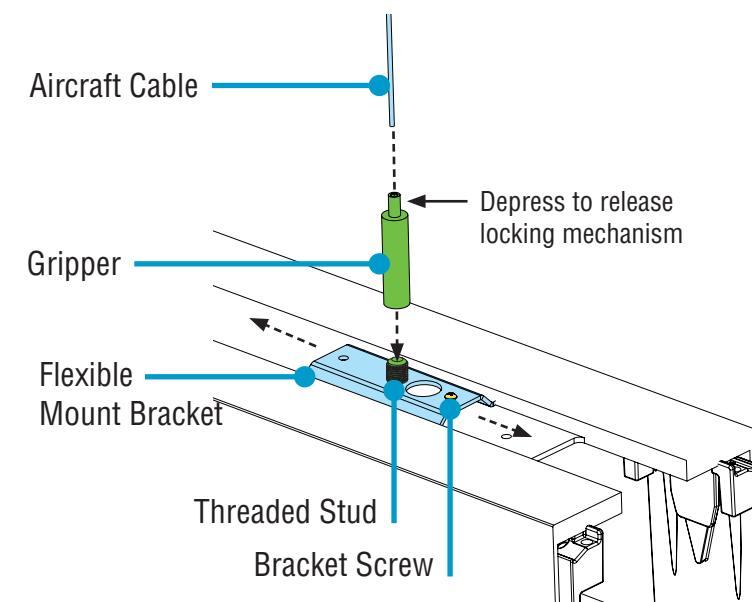
- Slide canopy appropriate for electrical type onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting bolt at both ends.
- While properly supporting luminaire, maneuver luminaire to ceiling.
- Locate gripper at luminaire ends and feed end of aircraft cable 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 part of an independent section, perform all leveling. **PROCEED TO STEP 6.**

OPTIONAL Flexible Mount pendant brackets are adjustable for custom mounting locations.

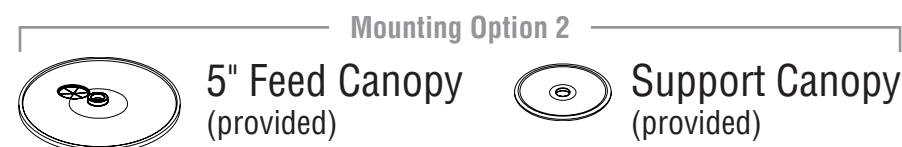
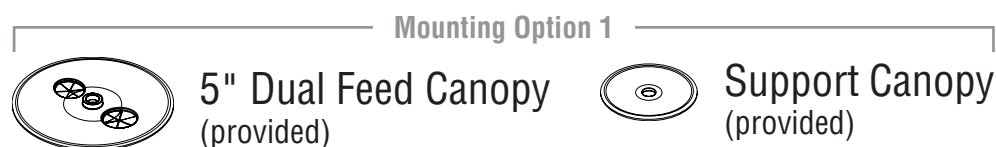


- **NOTE:** Minimum 6" from end of housing to threaded stud on pendant bracket.
- Maximum distance depends on length of luminaire (see table).

Luminaire Length	Max.
4' - 12'	24"
3' and less	12"



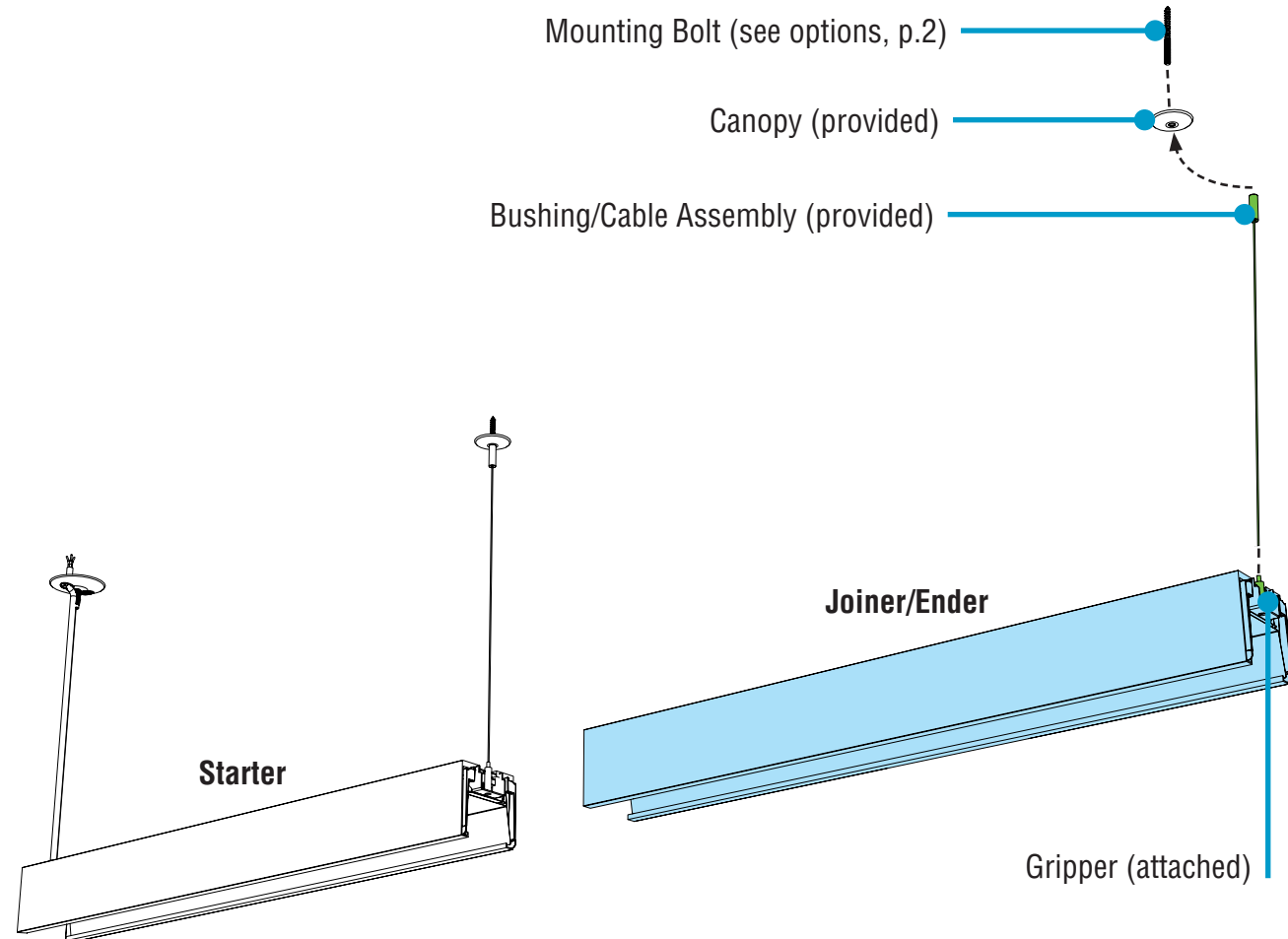
- Loosen (**but do not remove**) the bracket screw.
- Slide flexible mount pendant bracket to desired location and tighten screw to secure.
- Attach gripper onto threaded stud.
- Feed bushing/cable assembly through gripper by depressing top of gripper.
- Allow excess cable to rest atop luminaire. Crimp then trim, if necessary.



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Step 4 - Joining Luminaires

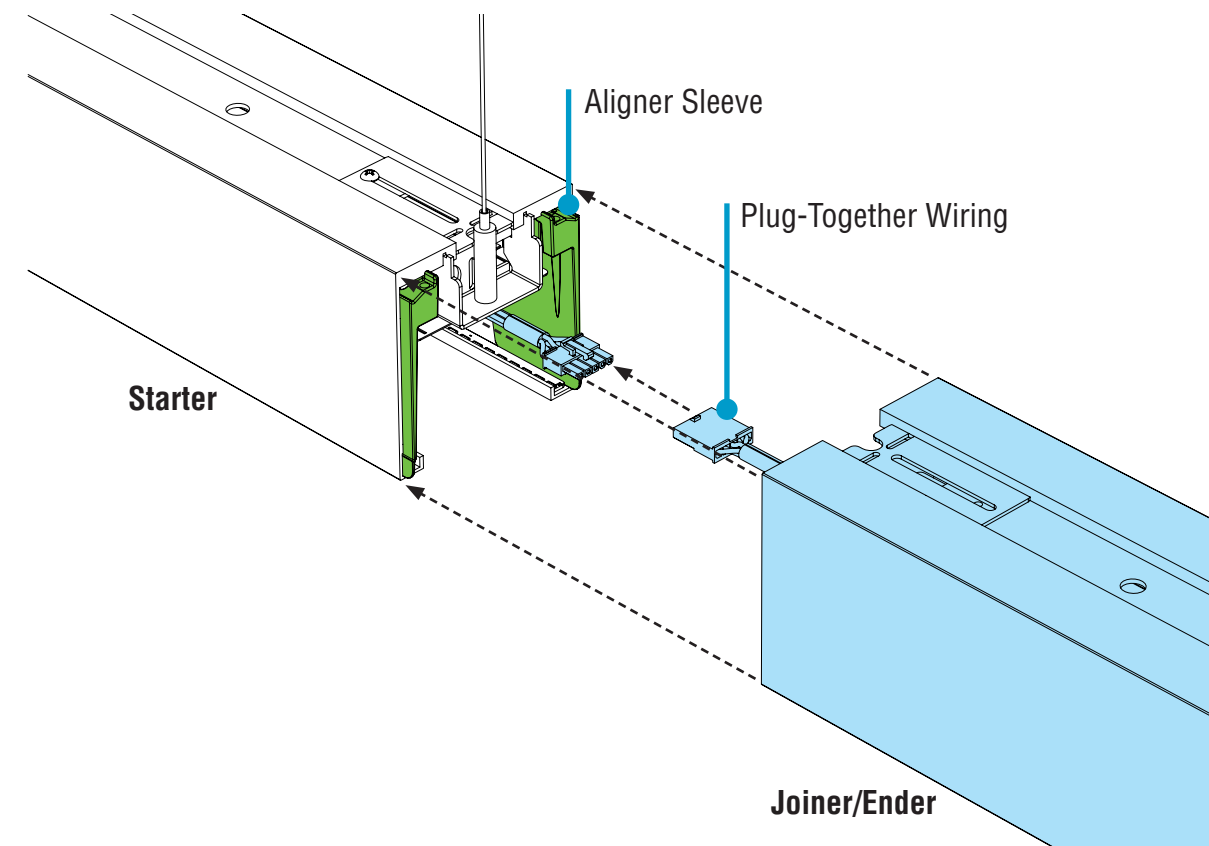
A. Mount Joiner/Ender to Structure Bottom-Up View



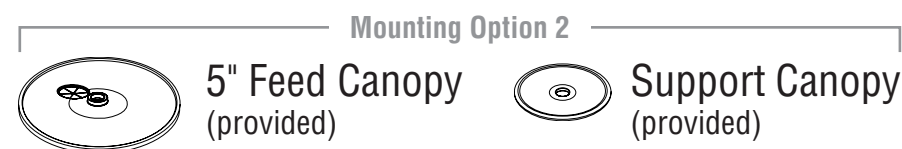
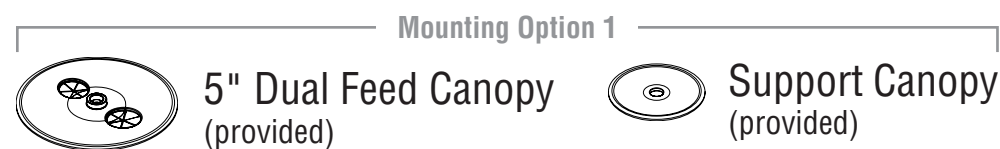
- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 4 of Sensor Addendum before joining luminaires.
- For the joiner/ender luminaire, slide canopy appropriate for electrical type onto mounting bolt (anchor bolt or caddy clip bolt).
- Thread the bushing/cable assembly onto mounting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

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/ender 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.

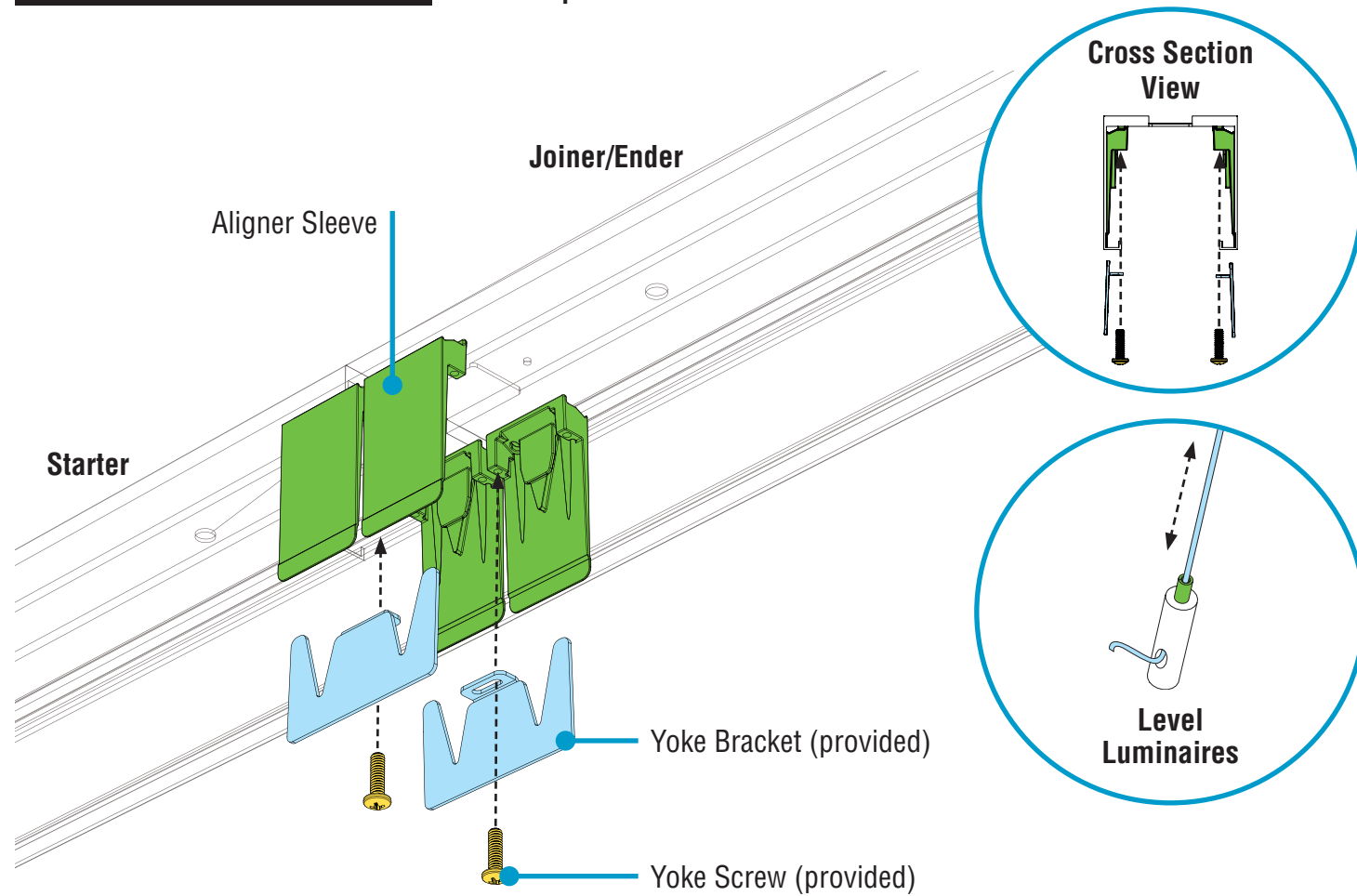


Simple Plug-Together Wiring

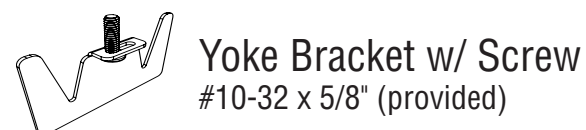
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Step 5 - Securing Luminaire Joints

Secure Joint with Yoke Brackets Bottom-Up View

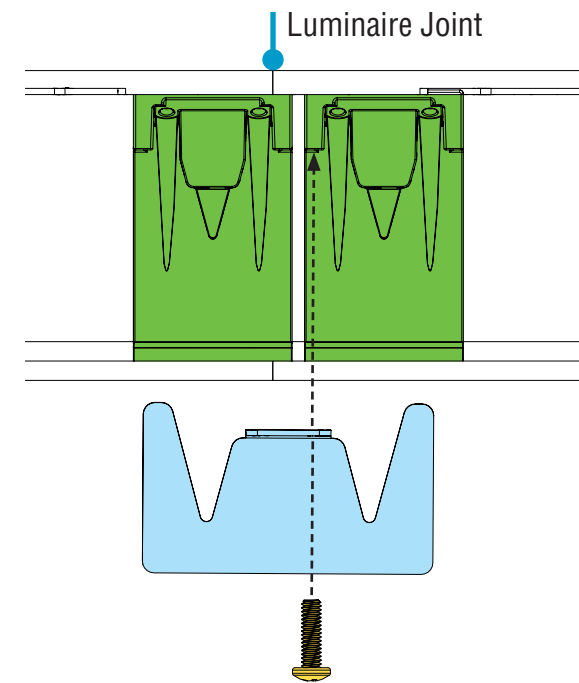


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by threading (but not yet tightening) yoke screws through yoke brackets and into the aligner sleeves.
- Level all luminaires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

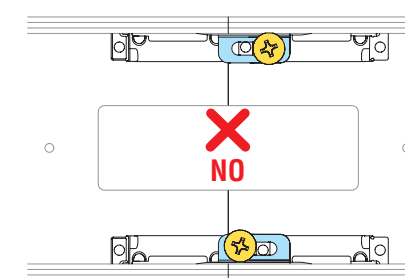


¹ Screwdriver with 6" bit required.

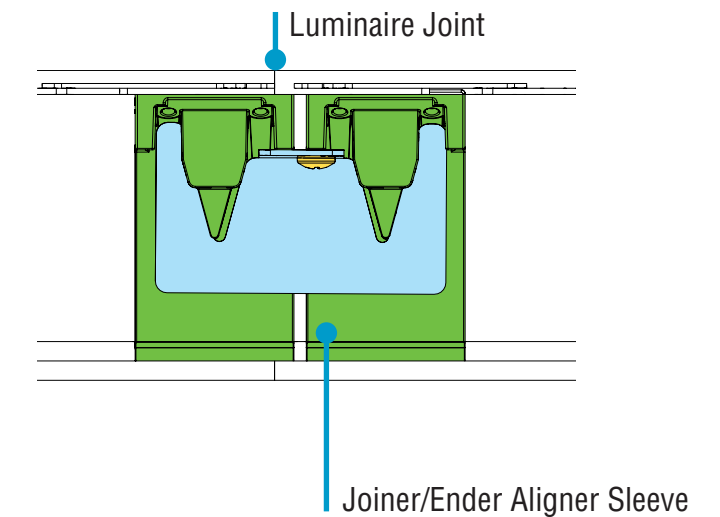
IN ALIGNMENT



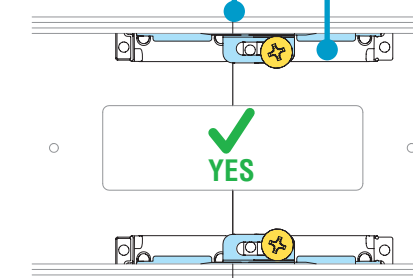
YOKE SCREW ALIGNMENT Bottom-Up View



CORRECTLY INSTALLED



Luminaire Joint Joiner/Enders Aligner Sleeve



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.

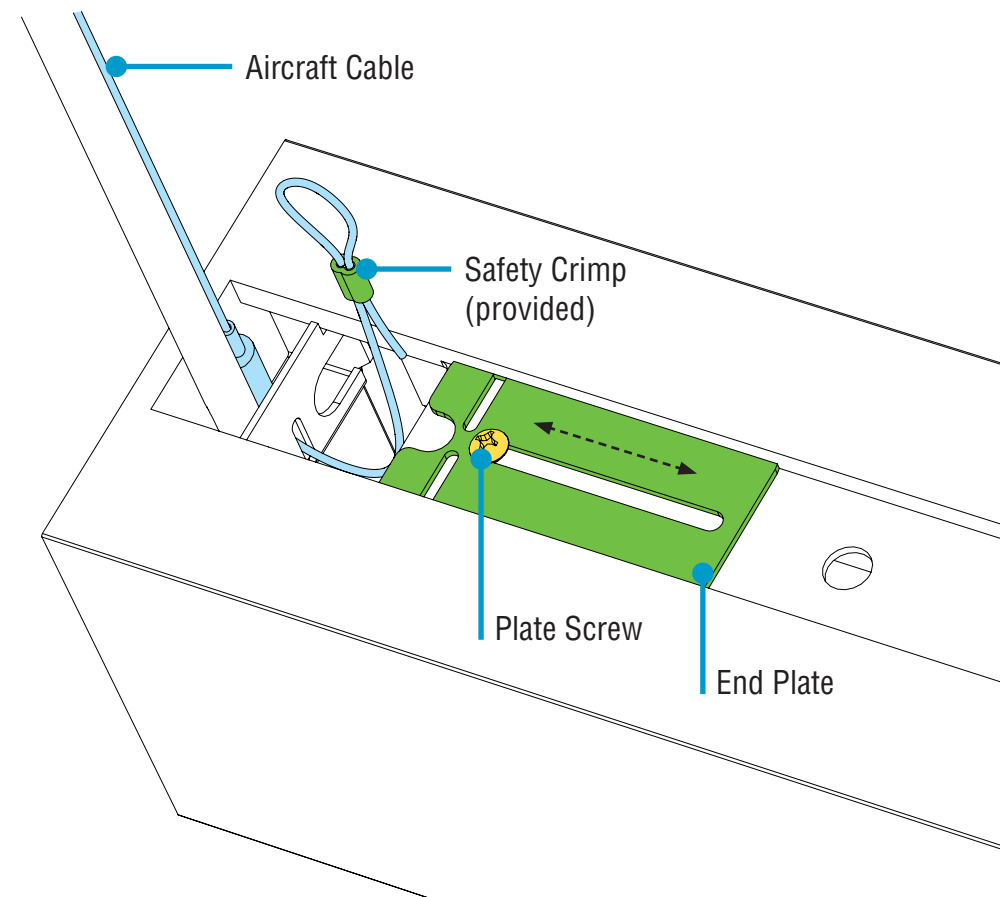


Universal &
Robust Joints

H04 Direct Installation Instructions

Step 6 - Closing Luminaires

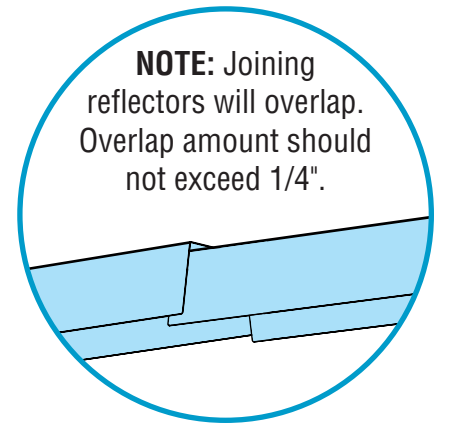
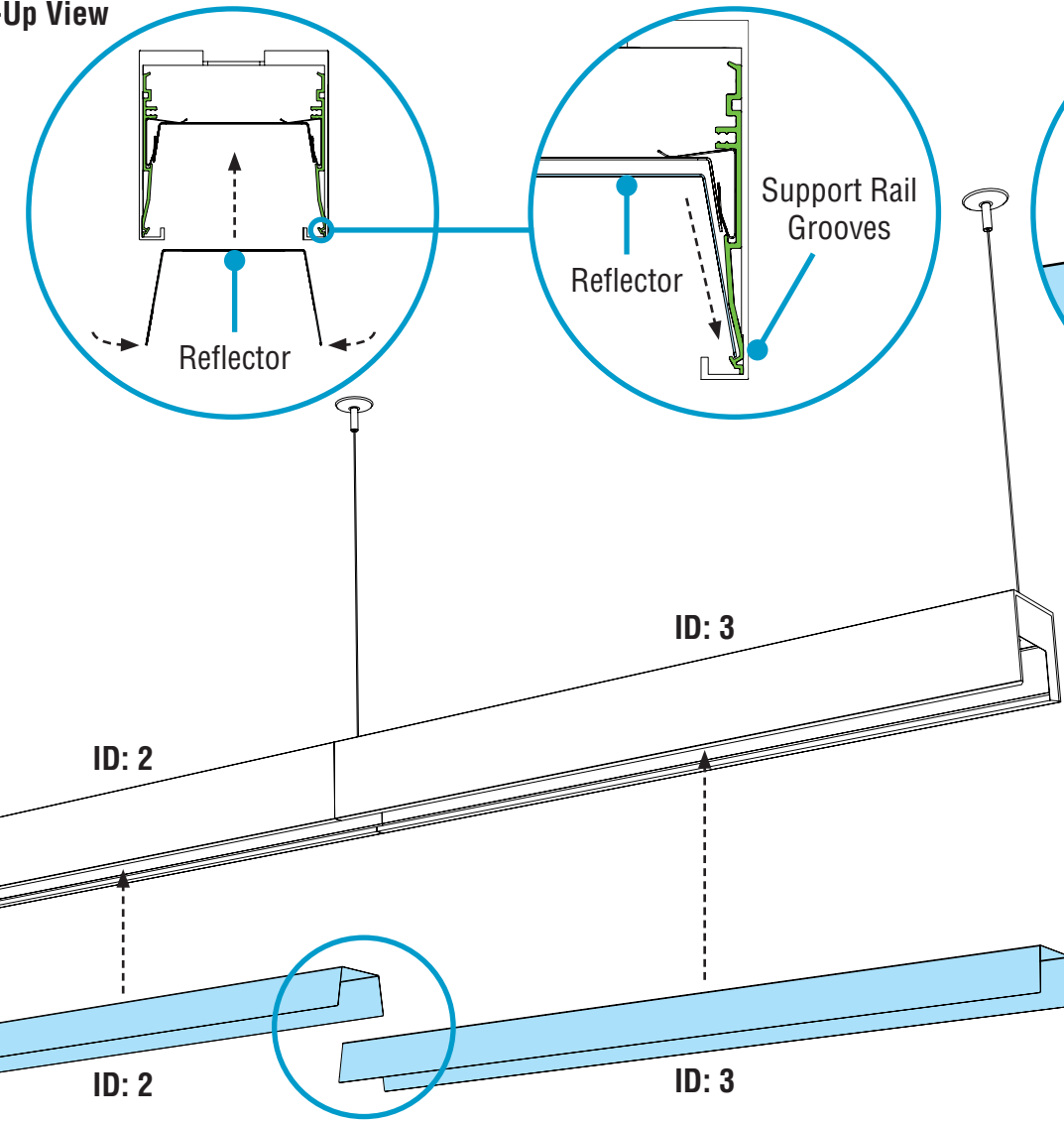
A. Crimp Cables Top-Down View



- 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 Reflectors Bottom-Up View



- **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 joint, reinstall backplate by rotating into luminaire body and snapping into clips. Then refer to page 6 of Sensor Addendum before Closing Luminaires.
- 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".
- Turn power on to luminaires.



Reflector Installation