HP-4 Indirect/Direct with Mitered Corners Installation Instructions

Regressed Luminaires Use Same Instructions

Overview

NOTES
- If luminaire contains a sensor or socket refer to the appropriate 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.

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**HP-4 Indirect/Direct with Mitered Corners** Installation Instructions

**Step 1 - Mounting & Suspension**

### Mounting Options

**Option 1**
T-Bar Mounting - GridBox™ and 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 and 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 = Suspension Dimensions

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

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**GridBox™ (provided)**

**Caddy Clip (provided)**

**J-Box (by others)**

**1/4"-20 Anchor Bolt (by others)**
A. Identify Luminaires

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

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

### 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.

### GridBox™

- **Dual GridBox™**
  - Part# 94195
  - Mounting Starter to Structure
- **Caddy Clip**
  - C1 Ceiling - Part# 94001
  - C2 Ceiling - Part# 94020
  - C3 Ceiling - Part# 94029
  - Mounting & Suspension
- **3-1/2" Canopy**
  - Part# 94065
  - Mounting Starter to Structure
- **2" T-Bar Support Canopy**
  - Part# 94193
  - Mounting Starter to Structure

### Mounting Option 1

- **5" Canopy**
  - Part# 94065
  - Mounting Starter to Structure
- **2" Drywall Support Canopy**
  - Part# 94177
  - Mounting Starter to Structure
- **#8-18 x 1/4" Screws**
  - Part# 95026
  - Closing Luminaires

### Mounting Option 2

- **Cable Bushing**
  - Part# 94137
  - Mounting Starter to Structure
- **Aircraft Cable**
  - 50' - Part# 94155-12 (Std.)
  - 100' - Part# 94155-14
  - 150' - Part# 94155-18
  - Mounting Starter to Structure
- **Yoke Bracket**
  - Part# 94054
  - Closing Luminaires
- **Safety Crimp**
  - Part# 94054
  - Closing Luminaires

### Mounting & Suspension

- **5" Canopy**
  - Part# 94065
  - Mounting Starter to Structure
- **2" T-Bar Support Canopy**
  - Part# 94193
  - Mounting Starter to Structure
- **#8-18 x 1/4" Screws**
  - Part# 95026
  - Closing Luminaires

**NOTE:** For White Cross Blade Baffle, refer to Battle Tether Addendum before installing.

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B. Remove Downlight Diffusers or Louvers

- Carefully remove all downlight diffusers or louvers, keeping them inside their protective bags.
- **FOR LOUVERS:** Release louvers by inserting the blade of a putty knife approximately 1" down behind louver edges and pry up.
- Set aside all downlight diffusers or louvers to prevent from getting dirty or damaged.
- Ensure downlight diffusers or louvers can be identified back to their corresponding luminaire.

### Remove Diffusers

- **Putty Knife**
- **Louver**
- **Uplight Diffuser**
- **Protective Bag**

### Remove Louvers

- **Factory Order Number**
- **Unique Luminaire ID Number**

C. Remove Uplight Diffuser

- Carefully remove all uplight diffusers, keeping them inside their protective bag.
- Set aside all uplight diffusers to prevent from getting dirty or damaged.
- Ensure uplight diffusers can be identified back to their corresponding luminaire.

**NOTE:** For White Cross Blade Baffle, refer to Battle Tether Addendum before installing.
A. Mount Starter to Structure

- Slide canopy appropriate for electrical type options onto mounting bolt (anchor bolt or caddy clip bolt).
- (Option 2 only) Thread the slip ring onto anchor bolts and secure 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.
- Level luminaires to desired height by depressing top of grippers to adjust cable lengths.

- (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, PROCEED TO STEP 7.

B. Make Electrical Connections

<table>
<thead>
<tr>
<th>Wiring Legend</th>
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</thead>
<tbody>
<tr>
<td>Black</td>
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<td>Line Voltage</td>
</tr>
<tr>
<td>White</td>
<td>Neutral</td>
<td>Line Voltage</td>
</tr>
<tr>
<td>Green</td>
<td>Ground</td>
<td></td>
</tr>
<tr>
<td>Grey</td>
<td>Dimming</td>
<td>0-10V DC</td>
</tr>
<tr>
<td>Purple</td>
<td>Dimming</td>
<td>0-10V DC</td>
</tr>
</tbody>
</table>

- Level Luminaires
- Mounting Bolt (see options, p.2)
- Support Canopy (provided)
- Bushing/Cable Assembly (provided)
- Slip Ring w/ Set Screw (provided)
- 3-1/2” Canopy (provided)
- 2” T-Bar Support Canopy (provided)
- 5” Canopy (provided)
- 2” Drywall Support Canopy (provided)
- 5” Canopy (provided)
- 2” T-Bar Support Canopy (provided)
**A. Mount Joiner to Structure**

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

- 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.

**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)
- Bushing/Cable Assembly (provided)
- Slip Ring w/ Set Screw (provided)

**B. Join Luminaires**

- **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.

- Level Luminaires
Step 5 - Opening Luminaires

**Release Downlight Backplates**

*Putty Knife Option*

- Carefully rotate downlight backplates out at the joints only and let them hang from luminaire body.

*Flathead Screwdriver Option*

- Release the backplates from clips by sliding the blade of a putty knife behind backplate edges.
- To use a flathead screwdriver, press end of screwdriver (from inside the luminaire) against the clip, until the backplate is released.
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**Step 6 - Securing Luminaire Joints**

### A. Secure Joint with Yoke Brackets

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

- **FOR SENSOR OR SOCKET:** If luminaire contains a sensor or socket at joint, refer to page 4 of appropriate Addendum before Securing Luminaire Joints.
- 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.

**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

- Connect plug-together wiring.
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**Step 7 - Joining Mitered Corners**

**A. Mount Ender to Structure**

- For the 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**

- Align 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.

**C. Open Downlight Backplates**

- Carefully rotate downlight backplates out at the joints only and let them hang from luminaire bodies.

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**Mounting Option 1 (shown)**

- 3-1/2" Canopy (provided)
- 2" T-Bar Support Canopy (provided)
- Slip Ring w/ Set Screw (provided)

**Mounting Option 2**

- 5" Canopy (provided)
- 2" Drywall Support Canopy (provided)
- Bushing/Cable Assembly (provided)
**A. Secure Joint with Yoke Brackets**

- 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.

**B. Make Electrical Connections**

- Connect plug-together wiring.

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¹ Screwdriver with 6" bit required.
A. Release Uplight Backplate

- Remove #8-18 x 1/4" screws to release uplight backplate.
- Lift backplate out of housing channel, pulling wiring harnesses through the housing. **DO NOT** disconnect LED board harnesses.
- Let backplate rest atop luminaire.

B. Crimp Cables

- 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.

C. Final Step - Replace Backplates & Diffusers or Louvers

- **NOTE:** For White Cross Blade Baffle, refer to Baffle Tether Addendum before installing.

ID: 1

ID: 2

ID: 3

ID: 1

ID: 2

ID: 3

• NOTE: If your installation includes a battery backup, please see addendum (98333) that should be included with your kitting package.
• **FOR SENSOR OR SOCKET:** If luminaire contains a sensor or socket at joint, refer to page 5 of appropriate Addendum before Closing Luminaires.
• Reinstall any open backplates by rotating into luminaire body and snapping back into clips.
• Remove diffusers or louvers from protective plastic bags.
• **CAUTION:** Wear gloves to keep diffuser or louver surface clean.
• **CRITICAL:** Be sure to install correct diffuser or louver to its corresponding luminaire ID.
• **NOTE:** For White Cross Blade Baffle, refer to Baffle Tether Addendum before installing.
• Install diffuser or louver into luminaire body, ensuring it snaps into place.
• Turn power on to luminaires.

#8-18 x 1/4" Screw (provided)

Safety Crimp (provided)