HP-4 Indirect/Direct Installation Instructions

**Overview**

- 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.

**NOTES**

- This is a hypothetical build to show the capabilities of this luminaire family and mount type. Your build may vary.
- Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732

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**HELPFUL VIDEOS**

- Laser Removal
- 0-10V Dimming
- Effortless Access
- Socket Removal & Installation
- Universal & Robust Joints
- Simple Plug-Together Wiring

**Simple**

- Effortless Access
- Universal & Robust Joints
- 0-10V Dimming
- Laser Removal
- Simple Plug-Together Wiring
**HP-4 Indirect/Direct 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

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

### X = Suspension Dimensions

ID: 1  ID: 2  ID: 3

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**Mounting Option 1**

- GridBox™ (provided)
- Caddy Clip (provided)

**Mounting Option 2**

- J-Box (by others)
- 1/4"-20 Anchor Bolt (by others)
**HP-4 Indirect/Direct Installation Instructions**

**Step 2 - Identification & Preparation**

### 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.

### 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.

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Factory Order Number</th>
<th>Unique Luminaire ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC Corporation - A12345</td>
<td>HP-4 ID - X’ STARTER</td>
<td>HP-4 ID - 32’ S - H - 835 - TG - F - 120V - SC - C1</td>
</tr>
</tbody>
</table>

### 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.

### 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 Battie Tether Addendum before installing.
- Identify all luminaires by their ID label that can be found on the box, the diffuser, and inside the luminaire.
- Arrange luminaires in order according to ID# at their install locations.

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**Factory Order Number**

**Job Name**

**Unique Luminaire ID Number**

**Luminaire Type and/or Run Length**

**Full Catalog Order ID**

**Luminaire Section Type**

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**Caddy Clip**

- C1 Ceiling - Part# 94001
- C2 Ceiling - Part# 94020
- C3 Ceiling - Part# 94029

**3-1/2” Canopy**

- Part# 89193
  - Mounting Starter to Structure: p. 4, Step 3
  - Joining Luminaires: p. 9, Step 4

**2” T-Bar Support Canopy**

- Part# 89191
  - Mounting Starter to Structure: p. 2, Step 1
  - Joining Luminaires: p. 9, Step 4

**5” Canopy**

- Part# 94026

**5” Dual Feed Canopy**

- Part# 94143
  - Mounting Starter to Structure: p. 4, Step 3
  - Joining Luminaires: p. 5, Step 4

**Cable Bushing**

- Part# 94014

**Aircraft Cable**

- 50' - Part# 94151-12 (Std.)
- 100’ - Part# 94151-24
- 150’ - Part# 94151-36

**#8-18 x 1/4” Screws**

- Part# 68026
  - Closing Luminaires: p. 8, Step 7

**Yoke Bracket**

- Part# 94042

**Slip Ring w/ Set Screw**

- Part# 94015
  - Mounting Starter to Structure: p. 4, Step 3
  - Joining Luminaires: p. 5, Step 4

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**NOTE:**

- Exact location of labels in these areas may vary.
- Carefully remove all downlight diffusers or louvers, keeping them inside their protective bags.
- Set aside all uplight diffusers to prevent from getting dirty or damaged.
- Ensure downlight diffusers or louvers can be identified back to their corresponding luminaire.
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Step 3 - Mounting Starter to Structure

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**

- GridBox™
- Mounting Bolt (see options, p.2)
- Support Canopy (provided)
- Bushing/Cable Assembly (provided)

**Option 2**

- J-Box
- Slip Ring
- Gripper (attached)

B. Make Electrical Connections

**WIRING LEGEND**

- **Black** Hot Line Voltage
- **White** Neutral Line Voltage
- **Green** Ground
- **Grey** Dimming 0-10V DC
- **Purple** Dimming 0-10V DC

**Option 1**

- GridBox™

**Option 2**

- J-Box

- 5” Canopy (provided)

**CRITICAL:** If installing an independent luminaire, perform all leveling. **PROCEED TO STEP 7.**

- **(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.

**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)
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Step 4 - Joining Luminaires

A. Mount Joiner/Ender to Structure

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

- Mounting Bolt (see options, p.2)
- Support Canopy (provided)
- Bushing/Cable Assembly (provided)

B. Join Luminaires

- Align joiner/ender 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 to desired height by depressing top of grippers to adjust cable lengths.

- 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.
- Level luminaires to desired height by depressing top of grippers to adjust cable lengths.

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.
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**Step 5 - Opening Luminaires**

**Release Downlight Backplates**

**Putty Knife Option**

- **NOTE:** For independent luminaires, backplates do not need to be released.
- 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.

**Flathead Screwdriver Option**

- Carefully rotate downlight backplates out at the joint only and let them hang from luminaire body.
**A. Secure Joint with Yoke Brackets**

- **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.
- Level luminaires to desired height by depressing top of grippers to adjust cable lengths.
- Tighten yoke screws\(^1\) until joint seam of luminaires is closed.

\(^1\) Screwdriver with 6" bit required.

**B. Make Electrical Connections**

- Connect plug-together wiring.

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Yoke Bracket w/ Screw

#10-32 x 5/8" (provided)
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Step 7 - Closing Luminaires

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: 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.

Uplight Backplate

#8-18 x 1/4” Screws (provided)

Safety Crimp (provided)

ID: 1

ID: 2

ID: 3

ID: 1

ID: 3

ID: 1

ID: 3

ID: 2

ID: 3