# Installation Instruction

## DRIVER ENCLOSURE

<table>
<thead>
<tr>
<th>Ceiling Type</th>
<th>Grid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>All versions except Battery Pack</td>
</tr>
</tbody>
</table>

## GRID MOUNT INSTALL OPTIONS

Refer to installation section of this document for the orientation most appropriate for your install situation.

Grid drivers can be mounted in 2 standard orientations, either vertical or horizontal to accommodate various plenum heights. There is also a 3rd detached method for shallow plenum spaces or where structural or mechanical obstructions interfere with mounting points.

For ease of installation Standard Vertical method is recommended.

### OPTION 1: Standard Vertical

![Standard Vertical](image1)

### OPTION 2: Standard Horizontal

![Standard Horizontal](image2)

### OPTION 3: Detached Method

Alternative installation method for shallow plenum spaces, or where structural or mechanical obstructions interfere with mounting points.

![Detached Method](image3)
Installation Instruction

DRIVER ENCLOSURE

Ceiling Type: Grid
Version: OPTION 1: Standard Vertical

Tools:
- Laser Line Tool
- Measuring Tool
- Pliers
- Conduit & Wiring Tools
- Phillips Screwdriver
- 2" Diameter Hole Saw
- Knife

Materials:
- Caddy 512 (for Off-Grid suspension points)
- Screws (for wall mount)

IMPORTANT

All fixtures should be installed in accordance with national and local building and electrical codes.

Do not install insulation within 3 inches (76mm) of any part of the enclosure.

For model IDC-G24 or models IDC-G2101 through to IDC-G2600, note the following regulatory requirements.
Install with minimum spacing between:
- center-to-center of adjacent luminaires: 24 inches (600mm)
- top of luminaire driver enclosure to overhead building member: 0.5 inches (13mm)
- luminaire driver enclosure mount center to side of building member: 12 inches (300mm)
1 **DETERMINE SUSPENSION POINT LOCATIONS**

Refer to Row Configuration Document

Layout the luminaire suspension point locations. Luminaire suspension points are 48” or 96” apart, depending on the luminaire. For a continuous run luminaire, note the location of the “non-power” suspension point (one point in from one of the ends).

2A **ON-GRID: MOUNT T-BAR CLIPS**

1. Mount T-bar clips to the T-bar or at the suspension point locations.
2. Install a support wire vertically to the building structure.

Skip to step #9 for non-power suspension points.

2B **OFF-GRID: INSTALL TILE + SUPPORT BARS**

1. Mark location + drill 2” diameter hole in ceiling tile.
2. Install ceiling tile + leave in place for remaining steps.
3. Mount Caddy-512 bars (by others) across suspension point in orientation shown.
4. Install the T-bar clips to the Caddy-512 bars with vertical support wire to building structure.

Skip to step #9 for non-power suspension points.

3 **REMOVE WIRING LID**

Remove wiring lid and locate parts bag.

4 **INSTALL FLEX CONDUIT**

For ON-GRID + OFF-GRID mounts:
Remove the end 9/16” knockout and install the low voltage flex conduit between the mount clip and the enclosure using pliers to compress the conduit fittings.

5 **MOUNT DRIVER TO T-BAR CLIP**

For ON-GRID + OFF-GRID mounts:
Hook driver enclosure onto T-bar clip.

NOTE: 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.
6 ATTACH DRIVER TO SUSPENSION WIRE
For ON-GRID + OFF-GRID mounts:
1. Rotate end bracket and close tab to trap suspension wire in place.
2. Optionally attach ziptie around suspension wire to stop movement noise.

NOTE: 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.

7 MOUNT DRIVER TO T-BAR CLIP
For ON-GRID + OFF-GRID mounts:
Screw the driver enclosure to the T-bar clip with supplied screws.

8 WIRE SOURCE LINE
For ON-GRID + OFF-GRID mounts:
Wire the source line voltage to driver box “line voltage cavity”.

NOTE: For Dimming Control Wiring:
1. Follow product label indicating whether dimming wiring is Class1 or Class2. Class1 Only, or Class2 Only.
2. For Class1 dimming control wiring, make connections in Line Voltage Cavity and wire field dimming wires with the line voltage wires or in separate conduit.
3. For Class2 dimming control wiring, route the driver dimming wires through the barrier hole to the Low Voltage Cavity and make connections to field Class2 dimming wires in the Low Voltage Cavity. Use the knock-outs in the Low Voltage Cavity for the field Class2 dimming wires.

9 INSTALL CEILING TILE (ON-GRID) + CANOPY
For ON-GRID mounts:
1. Mark position x and cut notch in ceiling tile, 1” radius.
2. Install ceiling tile.
3. Install aircraft cable with ceiling canopy.

For OFF-GRID mounts:
1. Install aircraft cable with ceiling canopy.
Install-IDC-Grid-Horizontal

**Tools + Materials Required**

**Tools:**
- Laser Line Tool
- Measuring Tool
- Pliers
- Conduit & Wiring Tools
- Phillips Screwdriver
- 2” Diameter Hole Saw
- Cordless Drill
- Knife

**Materials:**
- Caddy S12 (for Off-Grid suspension points)

**IMPORTANT**

All fixtures should be installed in accordance with national and local building and electrical codes.

Do not install insulation within 3 inches (76mm) of any part of the enclosure.

For model IDC-G24 or models IDC-G2101 through to IDC-G2600, note the following regulatory requirements.

Install with minimum spacing between:
- center-to-center of adjacent luminaires: 24 inches (600mm)
- top of luminaire driver enclosure to overhead building member: 0.5 inches (13mm)
- luminaire driver enclosure mount center to side of building member: 12 inches (300mm)
1 DETERMINE SUSPENSION POINT LOCATIONS

Refer to Row Configuration Document

Layout the luminaire suspension point locations. Luminaire suspension points are 48” or 96” apart, depending on the luminaire. For a continuous run luminaire, note the location of the “non-power” suspension point (one point in from one of the ends).

2A ON-GRID: MOUNT T-BAR CLIPS

1. Mount T-bar clips to the T-bar at the suspension point locations.
2. Install a support wire vertically to the building structure.

Skip to step #12 for non-power suspension points.

2B OFF-GRID: INSTALL TILE + SUPPORT BARS

1. Mark location + drill 2” diameter hole in ceiling tile.
2. Install ceiling tile + leave in place for remaining steps.
3. Mount Caddy-512 bars (by others) across suspension point in orientation shown.
4. Install the T-bar clips to the Caddy-512 bars with vertical support wire to building structure

Skip to step #12 for non-power suspension points.

3 REMOVE WIRING LID

Remove wiring lid and locate parts bag.

4 DETERMINE BRACKET HEIGHT / HOLES

Test fit the driver enclosure by hooking the driver enclosure onto T-bar clip in either the left or right horizontal orientation and determine which set of holes to use for support bracket (to allow the enclosure to be level).

NOTE: 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.

5 ATTACH SUPPORT BRACKET

ON-GRID + OFF-GRID:
Unhook the driver and mount the support bracket to the driver enclosure with supplied screws.
6 INSTALL FLEX CONDUIT

ON-GRID + OFF-GRID:
Remove the end 9/16” knockout and install the low voltage flex conduit between the mount clips and the enclosure using pliers to compress the conduit fittings.

7 MOUNT DRIVER TO T-BAR CLIP

ON-GRID: Re-hook the driver enclosure to the T-bar clip and rest the support bracket on the T-bar.
OFF-GRID: Re-hook the driver enclosure to the T-bar clip and rest the support bracket on the Caddy-512.
NOTE: 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.

8 TIE TO SUSPENSION WIRE

ON-GRID + OFF-GRID:
Bend top corner tab out and install zip tie from corner tab hole to vertical suspension wire.

NOTE:
1. Alternatively, the suspension wire can be installed directly to the corner tab hole instead of the T-bar clip and the zip tie used to keep the T-bar clips together.
2. 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.

9 INSTALL SCREWS TO T-BAR CLIP

ON-GRID + OFF-GRID:
Screw the driver enclosure to the T-bar clip with supplied screws.
10 SECURE SUPPORT BRACKET TO GRID

ON-GRID: Screw the support bracket to the T-bar using the supplied self-drilling sheet metal screw.
OFF-GRID: Zip tie the support bracket to the Caddy-512.
NOTE:
1. For additional support and/or for earthquake requirements, the support bracket and the corner tab holes can be used with suspension wire to connect to the building structure.
2. 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.

11 WIRE SOURCE LINE

ON-GRID + OFF-GRID: Wire the source line voltage to the driver box “line voltage cavity”.
NOTE: For Dimming Control Wiring:
1. Follow product label indicating whether dimming wiring is Class1 or Class2, Class1 Only, or Class2 Only.
2. For Class1 dimming control wiring, make connections in Line Voltage Cavity and wire field dimming wires with the line voltage wires or in separate conduit.
3. For Class2 dimming control wiring, route the driver dimming wires through the barrier hole to the Low Voltage Cavity and make connections to field Class2 dimming wires in the Low Voltage Cavity. Use the knock-outs in the Low Voltage Cavity for the field Class2 dimming wires.

12 INSTALL CEILING TILE (ON-GRID) + CANOPY

For ON-GRID mounts:
1. Mark position and cut notch in ceiling tile, 1” radius.
2. Install ceiling tile.
3. Install aircraft cable with ceiling canopy.

For OFF-GRID mounts:
1. Install aircraft cable with ceiling canopy.
Alternative installation method for shallow plenum spaces, or where structural or mechanical obstructions interfere with mounting points.

**ON GRID**

Uses the universal mounting clip. Requires a horizontal switchbox, conduit, connectors and fasteners; supplied and installed by others.

**OFF GRID**

Uses the universal mounting clip. Requires a Caddy 512 bar, switchbox, conduit, connectors and fasteners; supplied and installed by others.

### IMPORTANT

All fixtures should be installed in accordance with national and local building and electrical codes.

Do not install insulation within 3 inches (76mm) of any part of the enclosure.

For model IDC-G24 or models IDC-G2101 through to IDC-G2600, note the following regulatory requirements.

Install with minimum spacing between:

- center-to-center of adjacent luminaires: 24 inches (600mm)
- top of luminaire driver enclosure to overhead building member: 0.5 inches (13mm)
- luminaire driver enclosure mount center to side of building member: 12 inches (300mm)

### TOOLS + MATERIALS REQUIRED

**Tools:**
- Laser Line Tool
- Measuring Tool
- Pliers
- Conduit & Wiring Tools
- Phillips Screwdriver
- 2" Diameter Hole Saw
- Knife

**Materials:**
- Caddy 512 (for Off-Grid suspension points)
- Single Gang J-Box (supplied by others)
- 3/8” Trade Conduit Fitting
1 **DETERMINE SUSPENSION POINT LOCATIONS**

Refer to Row Configuration Document

Layout the luminaire suspension point locations. Luminaire suspension points are 48" or 96" apart, depending on the luminaire. For a continuous run luminaire, note the location of the “non-power” suspension point (one point in from one of the ends).

2A **ON-GRID: MOUNT T-BAR CLIPS**

1. Mount T-bar clips to the T-bar at the suspension point locations.
2. Install a support wire vertically to the building structure.

Skip to step #9 for non-power suspension points.

2B **OFF-GRID: INSTALL TILE + SUPPORT BARS**

1. Mark location + drill 2" diameter hole in ceiling tile.
2. Install ceiling tile + leave in place for remaining steps.
3. Mount Caddy-512 bars (by others) across suspension point in orientation shown.
4. Install the T-bar clips to the Caddy-512 bars with vertical support wire to building structure

Skip to step #9 for non-power suspension points.

3 **REMOVE WIRING LID**

Remove wiring lid and locate parts bag.

4A **MOUNT DRIVER TO BUILDING STRUCTURE (OPT. A)**

Option A: Screw through rear holes in enclosure wiring cavity and bend center end tab for end mounting hole (screws supplied by others).

**NOTE:**
1. See table of distance vs. wire gauge at end of section.
2. 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.

4B **MOUNT DRIVER TO BUILDING STRUCTURE (OPT. B)**

Option B: Use corner tabs and suspend driver using suspension wire.

**NOTE:**
1. See table of distance vs. wire gauge at end of section.
2. 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.
5 WIRE SOURCE LINE

Wire the source line voltage to driver box “line voltage cavity”.

NOTE: For Dimming Control Wiring:
1. Follow product label indicating whether dimming wiring is Class1 or Class2. Class1 Only, or Class2 Only.
2. For Class1 dimming control wiring, make connections in Line Voltage Cavity and wire field dimming wires with the line voltage wires or in separate conduit.
3. For Class2 dimming control wiring, route the driver dimming wires through the barrier hole to the Low Voltage Cavity and make connections to field Class2 dimming wires in the Low Voltage Cavity. Use the knock-outs in the Low Voltage Cavity for the field Class2 dimming wires.

6 FLATTEN HOOKS

For ON-GRID + OFF-GRID mounts:
Fold T-bar clip hooks flat.

7 INSTALL FLUX CONDUIT + JUNCTION BOX

For ON-GRID + OFF-GRID mounts:
1. Cut low voltage flex conduit to length.
2. Install from T-bar clip to standard single gang junction box (supplied by others).
3. Mount junction box to T-bar clip with supplied screws.

8 WIRE TO JUNCTION BOX

For ON-GRID + OFF-GRID mounts:
Wire low voltage wires from driver enclosure low voltage cavity to T-bar clip junction box (conduit and wire supplied by others).

NOTE:
1. 120-277V Driver Enclosure shown. Same step applies to 347V enclosure.
2. See table of distance vs. wire gauge.

9 INSTALL CEILING TILE (ON-GRID) + CANOPY

For ON-GRID mounts:
1. Mark position and cut notch in ceiling tile, 1” radius.
2. Install ceiling tile.
3. Install aircraft cable with ceiling canopy.

For OFF-GRID mounts:
1. Install aircraft cable with ceiling canopy.

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<table>
<thead>
<tr>
<th>Distance (ft), up to:</th>
<th>Recommended Wire Gauge for Minimal Losses (AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>18</td>
</tr>
<tr>
<td>50</td>
<td>14</td>
</tr>
<tr>
<td>80</td>
<td>12</td>
</tr>
</tbody>
</table>

Table 1. Low Voltage Distance vs. Wire Gauge