Installation Guide
2' x 2' Image Ceiling®
## MRI and Non-MRI Applications

PDC

Important Safety Instructions

When using electrical equipment, basic safety precautions should always be followed including the following:

Read And Follow All Safety Instructions

1. **Warning:** This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician. *Attention: Ce luminaire doit être installé conformément au NEC ou à votre code électrique local. Si vous n'êtes pas familier avec ces codes et exigences, consultez un électricien qualifié.*

2. **Warning:** This equipment is not for use in hazardous combustible atmospheres as defined by the National Electrical Code. *Avertissement: Cet équipement ne doit pas être utilisé dans des atmosphères combustibles dangereuses telles que définies par le National Electrical Code.*

3. **Danger**: Risk of shock - Disconnect power before installation. *Danger: Risque de choc – Couper l'alimentation avant l'installation.*

4. Type Non-IC Recessed. *Garnitures de type Non-IC.*

5. Inherently protected. *Protection inhérente.*

6. Dry locations only. *Pour emplacements secs seulement.*

7. Access above ceiling required. *Accès requis au-dessus du plafond*.

Save These Instructions For Future Reference

2' x 2' MRI Image Ceiling® Panels with Riser
1-07-000031 - White   1-07-000032 - RGB

2' x 2' Non-MRI Image Ceiling® Panels with Riser
1-07-000093 - White   1-07-000094 - RGB
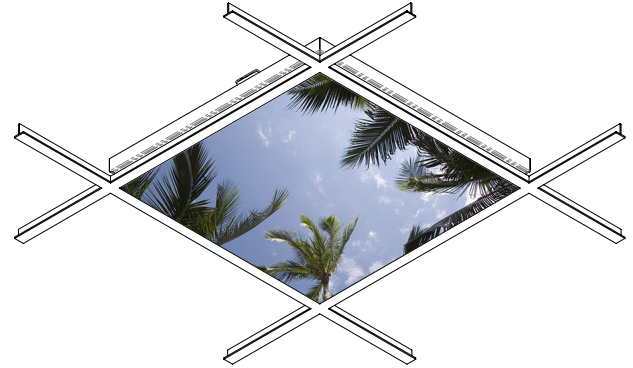
*Consult factory for custom sizes

Installation:

Warning: Fixtures should be supported independently of the ceiling grid. Ceiling structure should be installed to withstand a load rating of 4lbs/sqft. Ceiling mains at the Image Ceiling area to be run every 24in. and should be ran the shortest distance possible.

Diagram 1

2' x 2' Image Panel

Suspended Ceiling Grid
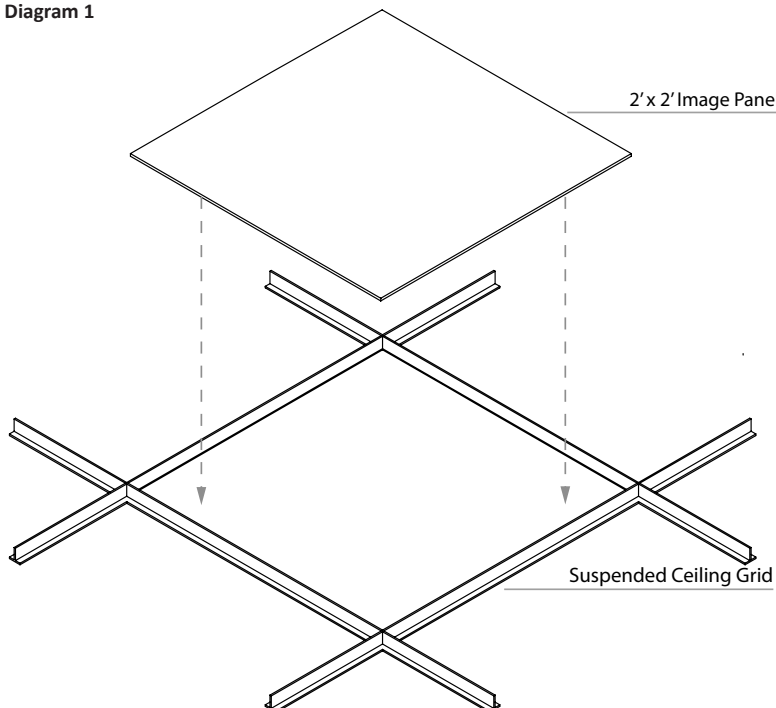
Single 2' x 2' Image Ceiling® Panel Installation

NOTE: There are multiple configurations possible for the 2' X 2' Image Ceiling® Panels. Illustrated below is an example of a standard 2' x 2' installation. However they are often arranged in arrays of various shapes using multiple 2' x 2' panels. Questions or concerns with a specific installation should be directed to the Customer Site Installation drawings unique to the job site or to your Sales Representative.

Step 1:
Turn off the power supply.

Step 2:
Place the 2' x 2' Image Panel into the existing ceiling grid as shown in **Diagram 1**. If there is more than one image, ensure they are laid out in the correct configuration and the image is facing the room side.
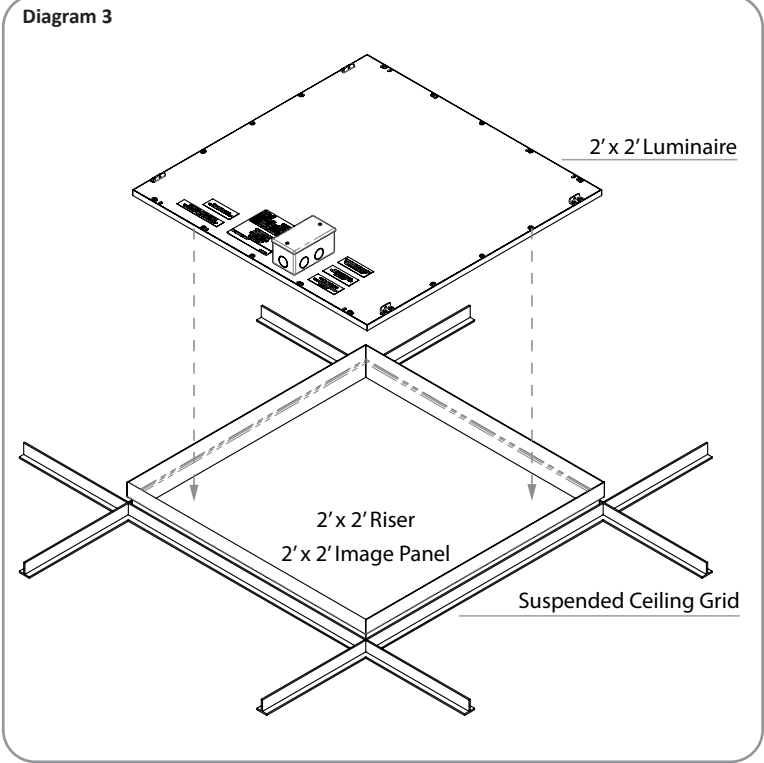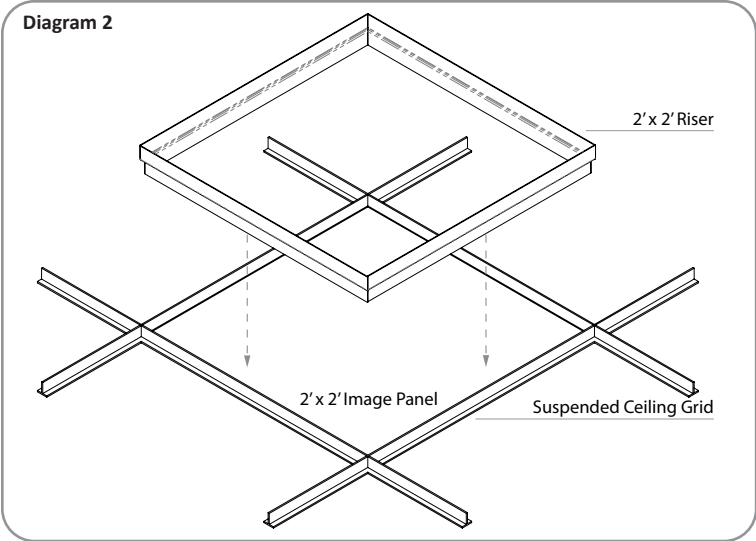
Step 3:
Place the riser on to the ceiling grid above the 2' x 2' Image Panel with the narrower opening facing the room side as shown in **Diagram 2**.

Step 4:
Place the luminaire into the riser as shown in **Diagram 3** aligning the junction box with the incoming supply wire and the other luminaries if applicable.

2-41-000026

Step 5:
Wire the luminaire(s) per the **Electrical Connections** section. Verify the part number before making connections and be sure to follow the correct wiring diagram illustrated below.

Step 6:
Turn on the power supply.

Diagram 2

2' x 2' Riser
2' x 2' Image Panel
Suspended Ceiling Grid

Diagram 3

2' x 2' Luminaire
2' x 2' Riser
2' x 2' Image Panel
Suspended Ceiling Grid

Electrical Connections:

Step 1:
Remove the Junction Box cover.

Step 2:
Using 90°C minimum rated wire connectors, make the following connections. Verify the part number before making connections and be sure to follow the correct wiring diagram illustrated below.

Step 3:
For the 2' x 2' MRI Image Ceiling® Panel with White light part number **1-07-000031**, make the following electrical connections as shown in **Diagram 4**.
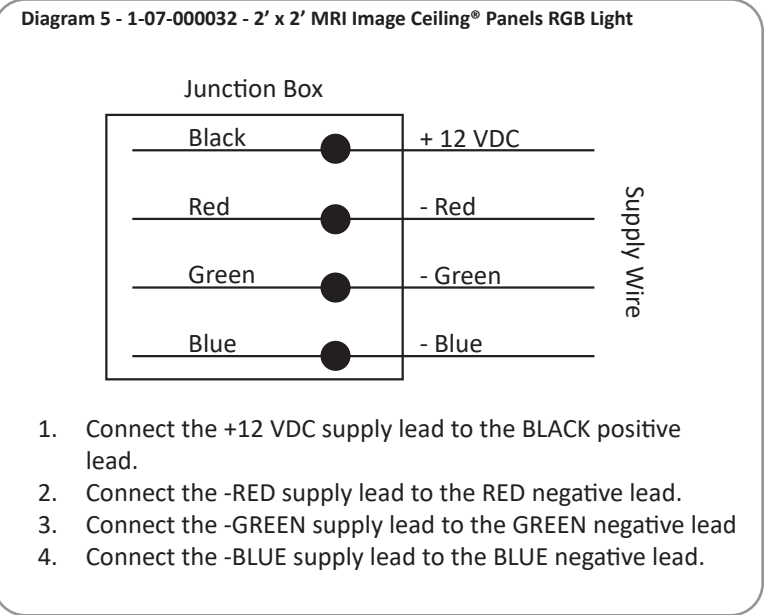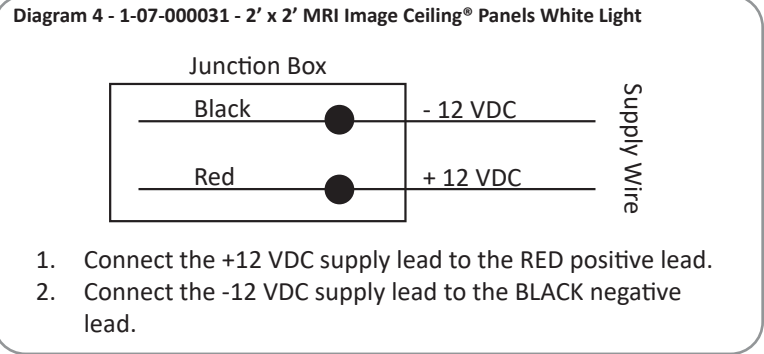
Step 4:
For the 2' x 2' MRI Image Ceiling® Panel with RGB light part number **1-07-000032**, make the following electrical connections as shown in **Diagram 5**.
NOTE: If using a PDC Linear RGB Controller, be sure to wire to site specific wiring diagram for proper current balancing.

Step 5:
For the 2' x 2' Non-MRI Image Ceiling® Panel with White light part number **1-07-000093**, make the following electrical connections as shown in **Diagram 5**.
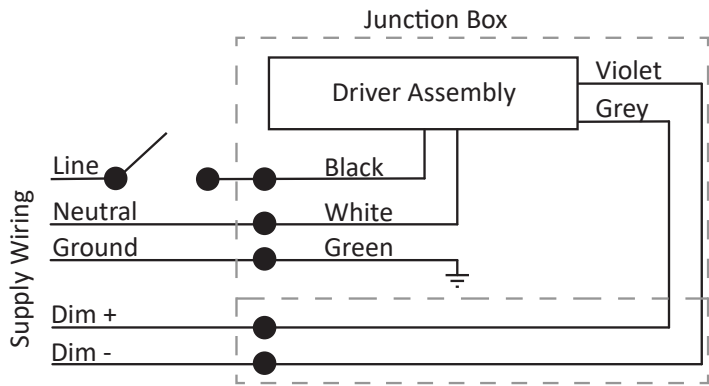
Step 6:
For the 2' x 2' Non-MRI Image Ceiling® Panel with RGB light part number **1-07-000094**, make the following electrical connections as shown in **Diagram 6**.
NOTE: If using a PDC Linear RGB Controller, be sure to wire to site specific wiring diagram for proper current balancing.
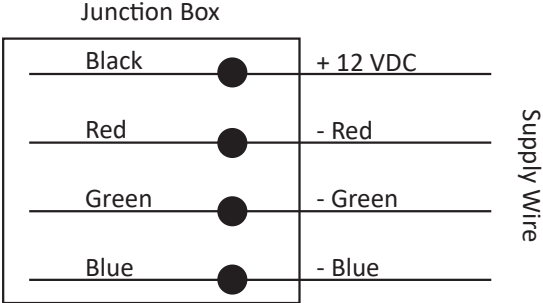
Diagram 4 - 1-07-000031 - 2' x 2' MRI Image Ceiling® Panels White Light

Junction Box

Black — - 12 VDC
Red — + 12 VDC
Supply Wire

1. Connect the +12 VDC supply lead to the RED positive lead.
2. Connect the -12 VDC supply lead to the BLACK negative lead.

Diagram 5 - 1-07-000032 - 2' x 2' MRI Image Ceiling® Panels RGB Light

Junction Box

Black — + 12 VDC
Red — - Red
Green — - Green
Blue — - Blue
Supply Wire

1. Connect the +12 VDC supply lead to the BLACK positive lead.
2. Connect the -RED supply lead to the RED negative lead.
3. Connect the -GREEN supply lead to the GREEN negative lead
4. Connect the -BLUE supply lead to the BLUE negative lead.

Electrical Connections Continued:

Diagram 6 - 1-07-000093 - 2' x 2' Non- MRI Image Ceiling® Panels White Light

Junction Box

Driver Assembly — Violet / Grey

Supply Wiring:
- Line — Black
- Neutral — White
- Ground — Green
- Dim +
- Dim -

1. Connect the BLACK fixture supply lead to the voltage supply line position. S1 Hot 1 and S2 Hot 2.
2. Connect the WHITE fixture lead to the neutral supply position.
3. Connect the GREEN or GREEN/YELLOW ground lead to the green wire position.
4. Connect the VIOLET dimming positive lead to the supply dimming positive lead (for 0-10V).
5. Connect the GREY dimming negative lead to the supply dimming negative lead (for 0-10V).

Diagram 7 - 1-07-000094 - 2' x 2' Non- MRI Image Ceiling® Panels RGB Light

Junction Box

Supply Wire:
- Black — + 12 VDC
- Red — - Red
- Green — - Green
- Blue — - Blue

1. Connect the +12 VDC supply lead to the BLACK positive lead.
2. Connect the -RED supply lead to the RED negative lead.
3. Connect the -GREEN supply lead to the GREEN negative lead
4. Connect the -BLUE supply lead to the BLUE negative lead.