

# Installation Instructions

## Backlit LED Flat Panel

Installation guide valid for the following models:

**BFPL-14L(30/25/20S)/8A**

**BFPL-22L(30/25/20S)/8A**

**BFPL-24L(35/30/23S)/8A**

**BFPL-24H(60/50/40S)/8A**



### **WARNING**

#### **RISK OF FIRE OR ELECTRIC SHOCK**

The BFPL LED Panel Light must be installed by a qualified electrician in accordance with applicable federal, state, and local laws and codes. Installation requires knowledge of luminaire electrical systems and installer should be familiar with the operation of this product. If not qualified, do not attempt installation; contact a qualified electrician. Manufacturer assumes no responsibility for the improper installation of this luminaire. When installing the fixture, drilling may damage luminaire wiring and electrical parts. Check for wiring and components in enclosure before drilling. Before installation or maintenance, please disconnect the power to prevent electric shock.

### **WARNING**

To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. When installing this kit, drilling may damage luminaire wiring and electrical parts. Check for wiring and components in enclosure before drilling.

### **CAUTION**

#### **RISK OF PERSONAL INJURY**

- Wear gloves or proper handling protection to prevent cuts or abrasions when handling and maintaining this product. This equipment may have sharp edges. To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warning and instructions included with and on the fixture box and all fixture labels.
- Avoid direct eye exposure to the light source while it is on.

### **WARNING**

#### **RISK OF PERSONAL INJURY, FIRE OR ELECTRIC SHOCK**

Turn OFF power before installation.

### **NOTICE**

- Green ground screw provided in proper location. Do not relocate.
- Minimum 90° supply conductors.
- Specifications and dimensions subject to change without notice.
- Please keep the LED Panel away from any corrosive substance, and please use dry cloth when you clean it.
- Suitable for Dry or Damp location only.

Contact manufacturer with any questions or concerns regarding installation of this luminaire.

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### Recessed Mounting:

**Figure1.** Carefully unpacked unit and properly inspect for defects before installing. Wear work gloves to prevent dirt and oil from being transferred to the luminaire. If cleaning is needed, use gloves and a dry cotton cloth. It is not recommended to use hazardous chemicals.

**Figure2.** Lift up four mounting clips on the sides of the luminaire. You can do it by hand(Do wear work gloves) or use pliers.

**Figure3.** Insert luminaire into T-bar ceiling grid. Secure safety cable to connection hole as needed to meet local seismic requirements. Safety cable and method of attachment to the building provided by contractor according to local building codes.

**Figure4.** Remove electrical enclosure cover. Carefully remove knock-out for AC line input wires and 0-10V control line. Install listed electrical fittings in the knock-out holes for wire protection if needed.

**Figure5.** Plug in AC line(L and N, and GND) to the LED driver using 18-14AWG wire. When connecting 0-10V dimming controller, wires must run through a separate knock-out hole equipped with an appropriate electrical fitting.

**Figure6.** Follow wire connection instructions. When using the 0-10V dimming controller run wires from controller through a different knock-out than the AC input wire. Don't forget to return the electrical enclosure cover and tighten the screws.

Figure 1

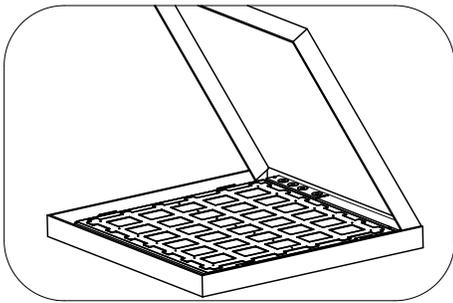


Figure 2

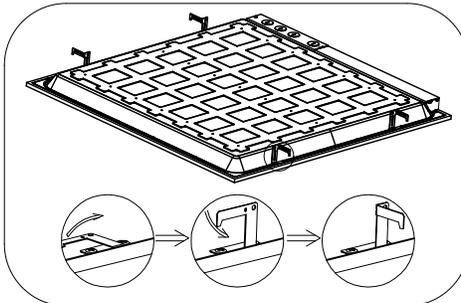


Figure 3

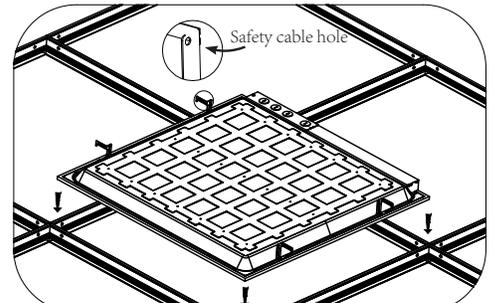


Figure 4

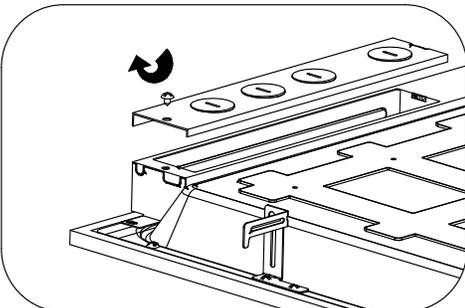


Figure 5

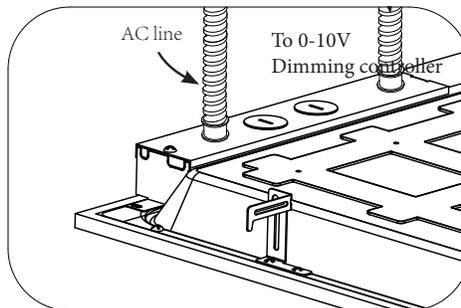
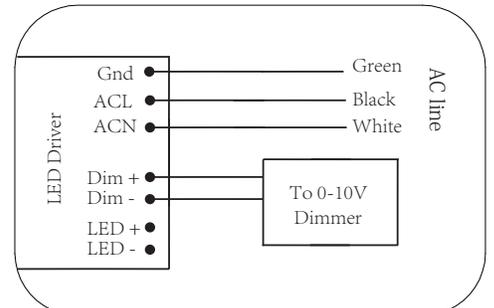


Figure 6



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### Cable Suspended Mounting:

**Step1.** Replace the existing earthquake tabs with the provided brackets which are used for fixing adjustable cables.

**Step2.** Pull the end cap of cable A through the provided flange and make sure the end cap positioned in the flange. Fix the flanges onto the ceiling by the self-tapping screws.

**Step3.** Insert the end of cable A into the hasp attached on the cable B then adjust the cable A to be desired height and adjust the cable B to the desired angles.

**Step4.** Hook the luminaire up to the hooks attached to the other end of cable B and make a final adjustments.

**Step5.** Connect LED driver to AC mains power.

Figure 1

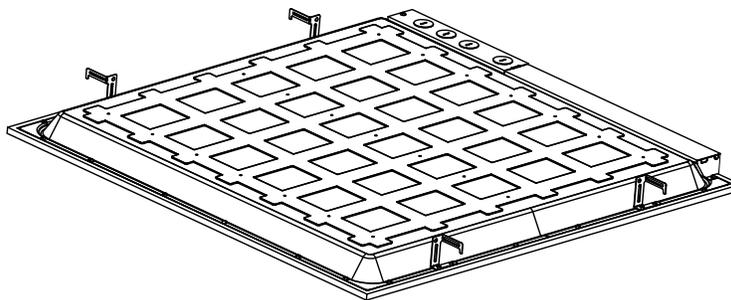
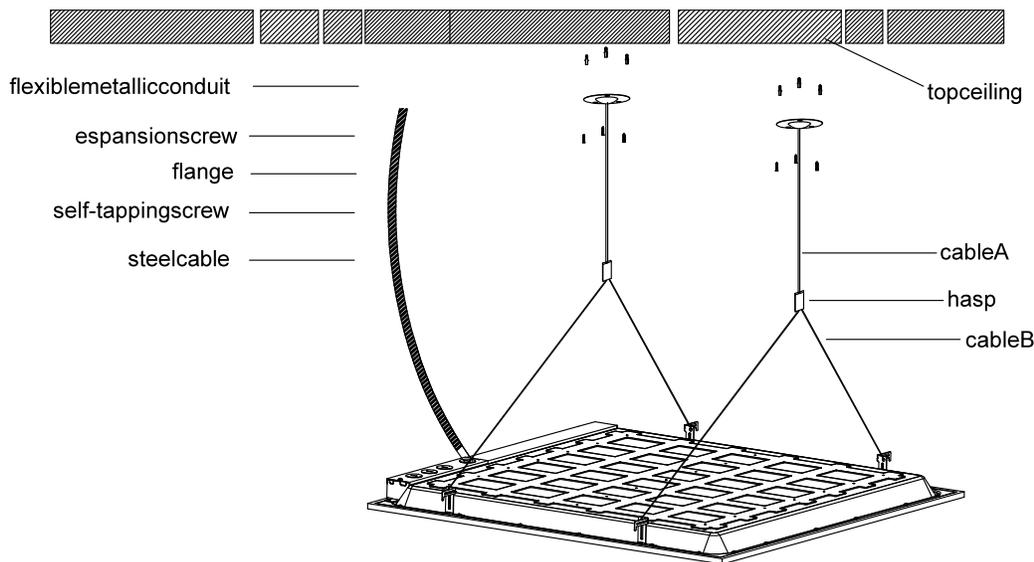


Figure 2



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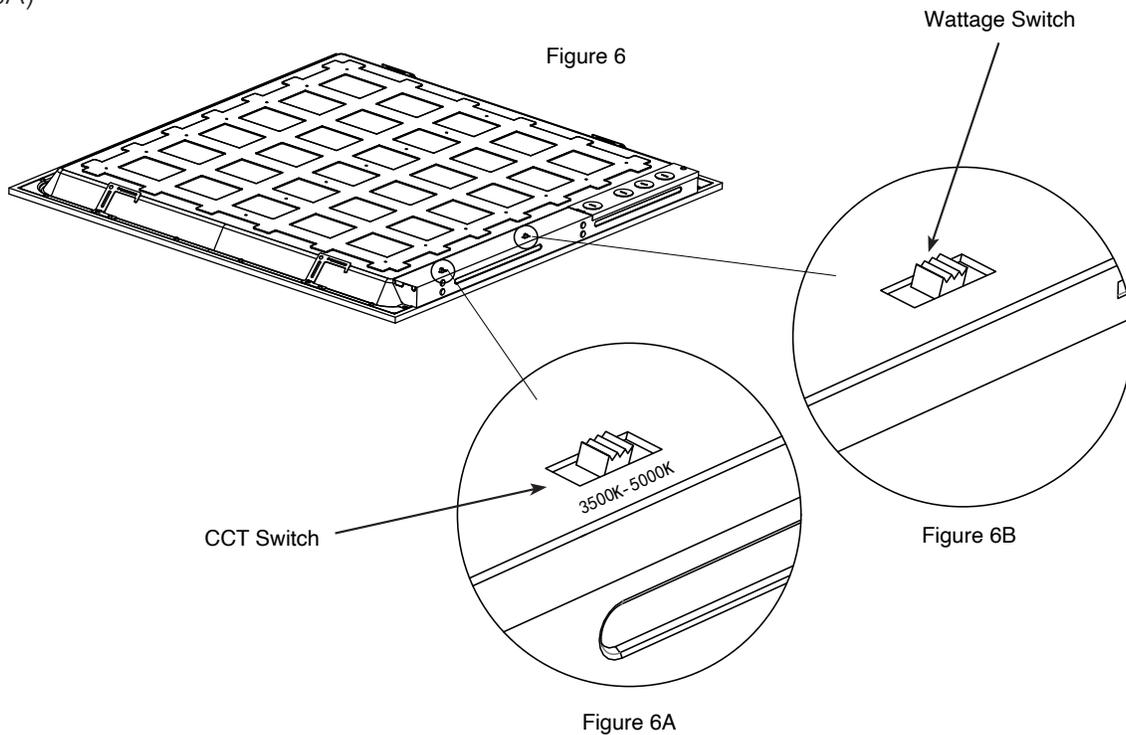
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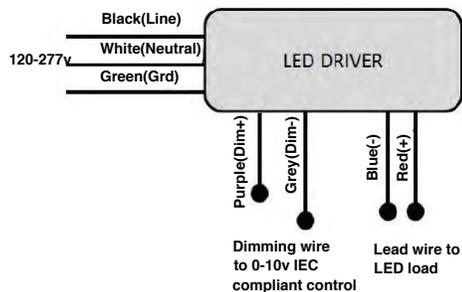
### Field-Adjustable Wattage & CCT:

The end users may adjust the color temperature and lumen output respectively by the two DIP switch buttons integrated into the driver. Each DIP switch is accommodated with 3 options (left, middle and right), corresponding to 3 colour temperatures and 3 powers respectively, which can perform the desired color temperature and lumen output combination.

1. DIP switches are located onto the drive box.(see Fig.6)
2. Select a wattage and color temperature by sliding switch left or right respectively to the desired value.(see Fig.6A)



### Wiring Diagram: Fig. 1



### 0-10V Dimmable Wiring

Follow the wiring directions as in fig. 1.

1. Connect the black fixture lead to the (+) LINE supply lead.
2. Connect the white fixture lead to the (-) COMMON supply lead.
3. Connect the GROUND wire from fixture to supply ground. Do NOT connect the GROUND of the dimming fixture to the output.
4. Connect the purple fixture lead to the (V+) DIM lead.
5. Connect the gray fixture lead to the (V-) DIM lead.

### ON-OFF Wiring

Follow the wiring directions as in fig. 1.

1. Connect the black fixture lead to the LINE supply lead.
2. Connect the white fixture lead to the COMMON/NEUTRAL supply lead.
3. Connect the GROUND wire from fixture to supply ground.

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