

# LED FLAT PANEL W/BATTERY BACK-UP



Lumens Depot Foam's LED Backlit Panels deliver uniform illumination with outstanding energy efficiency, making them an ideal lighting solution for modern spaces. Designed with a popular backlit structure, they provide soft, glare-free ambient lighting that enhances visual comfort.

Available in both single CCT and selectable CCT options with adjustable wattage, these panels offer flexibility to meet a wide range of lighting requirements. An optional built-in emergency driver adds an extra layer of reliability for critical applications.

With a slim profile and advanced energy-saving LED technology, these panels are perfect for both renovation projects and new construction, offering a clean, efficient, and long-lasting lighting solution.

## Product Features

- High efficacy, up to 130 Lm/W
- Wattage Adjustable
- CCT Adjustable 3500/4000/5000K
- Output Voltage 120-277 AC / (50-60Hz)
- 0-10V Dimmable
- Glare free lighting with remarkable light uniformity
- Super slim design with durable construction
- Optional hanging or surface mounting accessories available
- Built-in standard earthquake clips
- UL Listed
- 5 Year warranty

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Wattage Adj.	Lumens	CCT Adj.	Size	Input Voltage	Certifications
24W/29W/32W/ 39W	5004Lm	3500K/4000K/ 5000K	2'X 2'	120-277Vac	UL
29W/34W/39W/ 49W	6448Lm	3500K/4000K/ 5000K	2'X 4'	120-277Vac	UL
Surface Mounting Kit			2'X 2'	Optional	
Surface Mounting Kit			2'X 4'	Optional	

## Specifications

Parameter	Description	Value
General Performance	Model #	BLT-BPLED-2x2-24/29/32W/39W/D10/U/50/HL
	Wattage Adjustable	24W / 29W / 32W / 39W
	Lumen	Up to 5004LM
	Lumen Efficacy	Up to 130LM/W
	Color Temperature	3500K / 4000K / 5000K
	CRI (Ra)	>80
	Beam Angle	120° Degree
Electrical	Diffuser Type	Frosted
	Input Voltage	120-277Vac
	Frequency	50/60Hz
	Dimming	0-10V Dimmable
	Power Factor	≥0.9
	Flicker Percent	N/A
Physical	Operating Temperature	-20°C To 40°C
	Operating Humidity	10% - 65% RH
	Storage Humidity	10% - 65% RH
	LED Brand	N/A
	LED Type	N/A
Qualification	LED QTY	PCS
	Housing Color	White
	IP Rating	IP20
	Warranty	5 Year warranty

# LED FLAT PANEL W/BATTERY BACK-UP

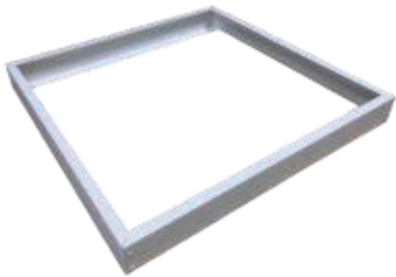
## Specifications

Parameter	Description	Value
General Performance	Model #	BLT-BPLED-2x4-34/39/49D10/U/35-40-50/HL
	Wattage Adjustable	29W / 34W / 39W / 49W
	Lumen	Up to 6448LM
	Lumen Efficacy	Up to 130LM/W
	Color Temperature	3500K / 4000K / 5000K
	CRI (Ra)	>80
	Beam Angle	120o Degree
	Diffuser Type	Frosted
Electrical	Input Voltage	120-277Vac
	Frequency	50/60Hz
	Dimming	0-10V Dimmable
	Power Factor	≥0.9
	Flicker Percent	N/A
	Operating Temperature	-20°C To 40°C
Physical	Operating Humidity	10% - 65% RH
	Storage Humidity	10% - 65% RH
	LED Brand	N/A
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	IP Rating	IP20
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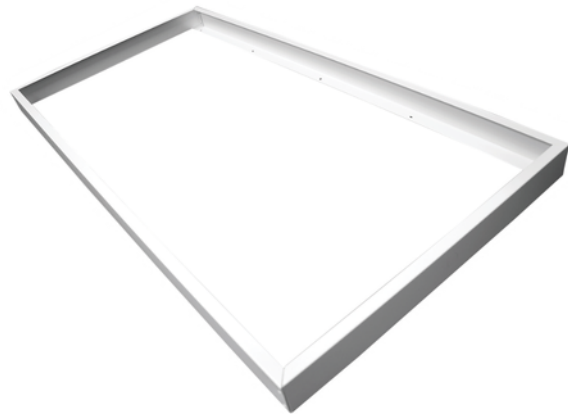
## Accessories

2'x2'



Surface Mounting Kit

2'x4'



Surface Mounting Kit



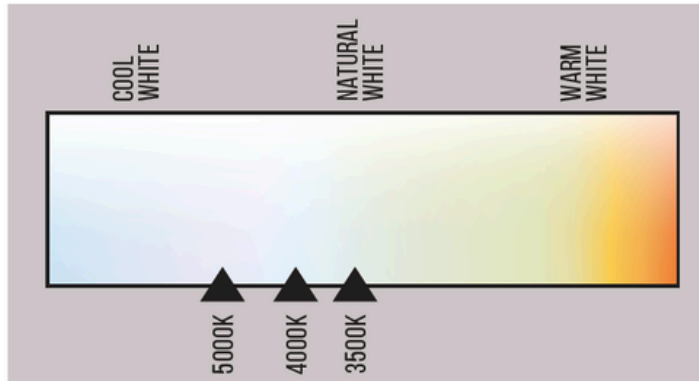
Hanging Mounting Kit



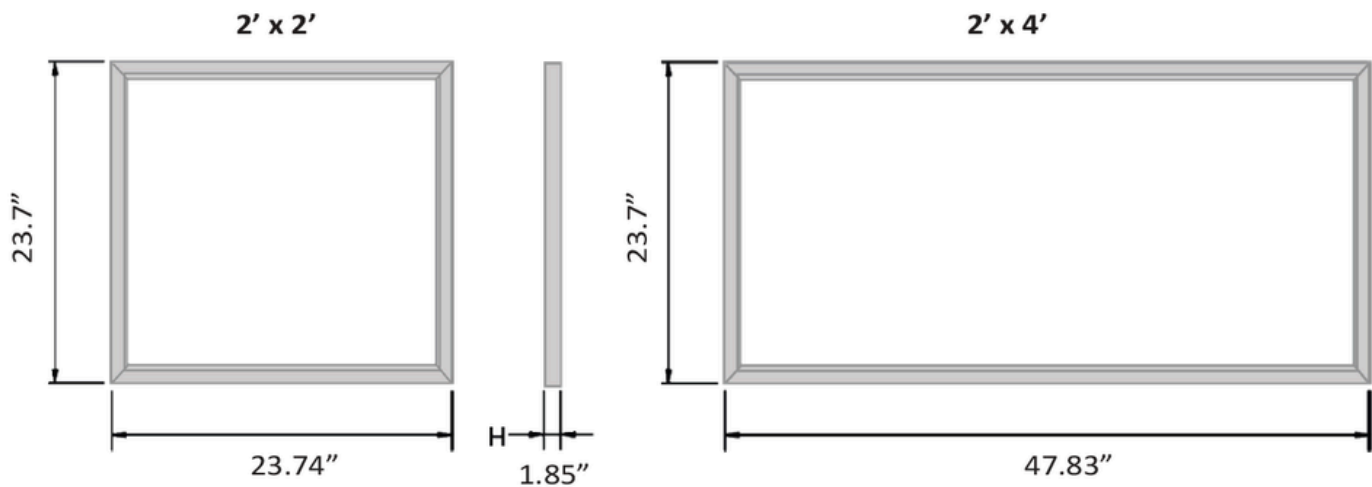
Emergency Driver

# LED FLAT PANEL W/BATTERY BACK-UP

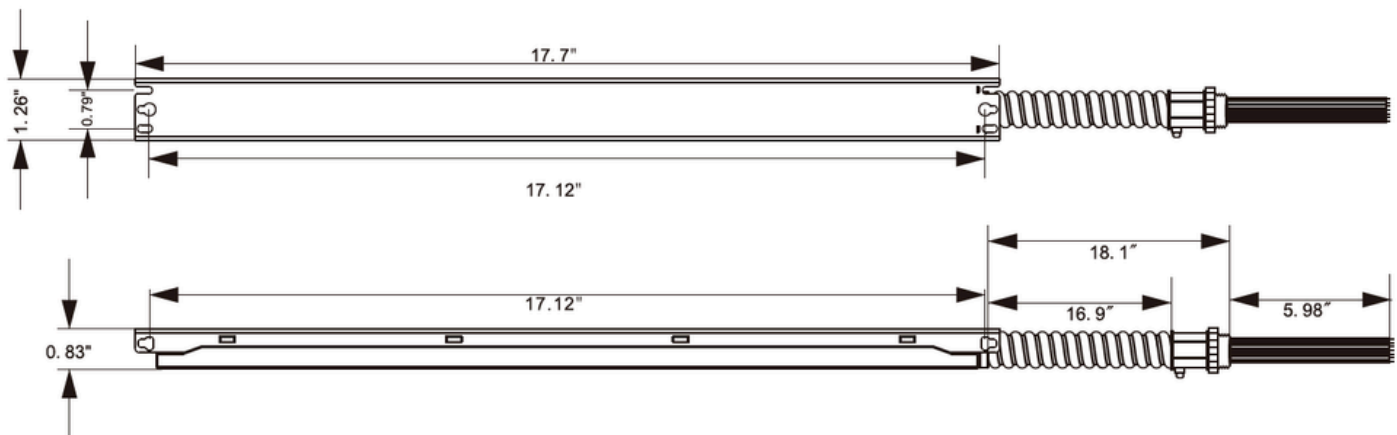
## Correlated Color Temperature (CCT)



## Dimensions Flat Panels

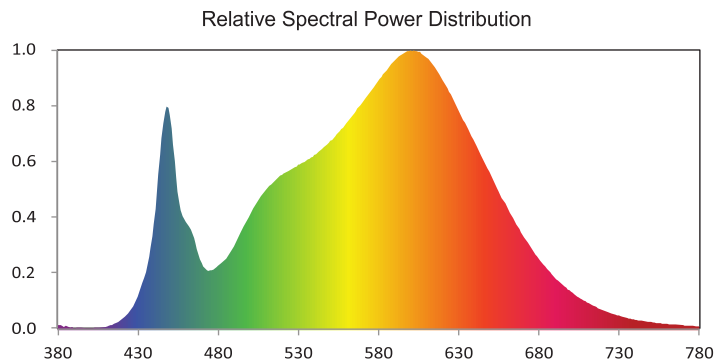
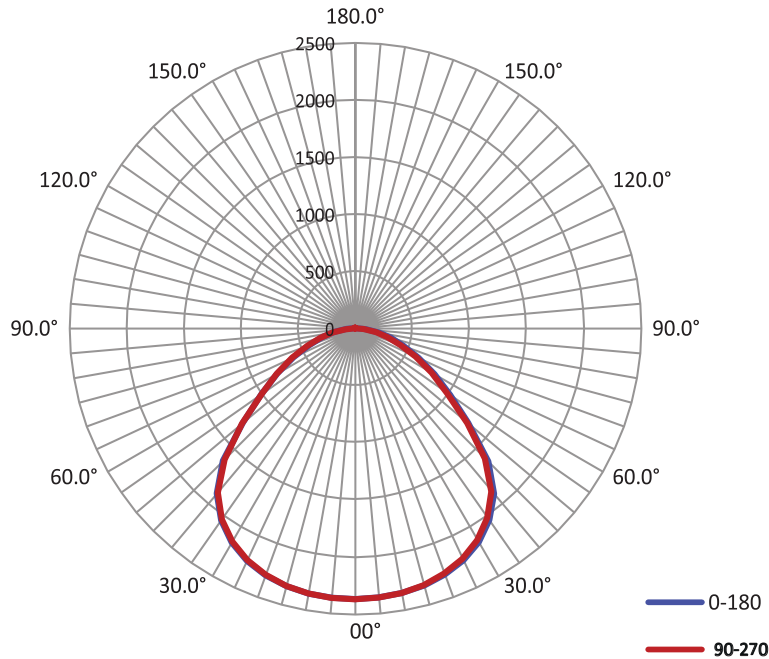


## Dimensions Battery Back-Up



# LED FLAT PANEL W/BATTERY BACK-UP

## Luminous Intensity Distribution



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% I <sub>max</sub> ):	103.7	106.2	103.6	105.8	104.8
Field Angle (10% I <sub>max</sub> ):	156.7	158.5	156.0	158.5	157.4

### UGR Value

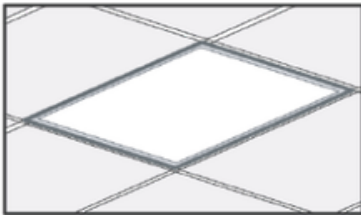
Reflectances:			
Ceiling (cavity)		0.7	
Wall		0.5	
Reference plane		0.2	
Room dimensions		crosswise	Viewed endwise
X=4H	Y=8H	19.1	18.7

# LED FLAT PANEL W/BATTERY BACK-UP

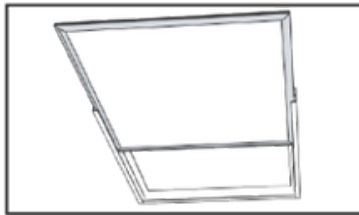
## Installation

### Mounting Options

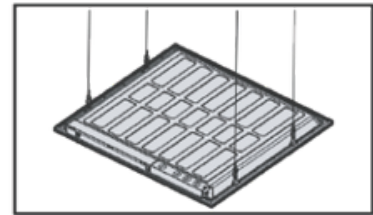
Recessed



Surface  
(Requires Mounting Kit)



Pendant/Suspension  
(Requires Mounting Kit)



### Mounting Kit Description

#### Mounting Kit Description

4-Cable Suspension Kit

#### Mounting Kit Description

2 x 4 Surface

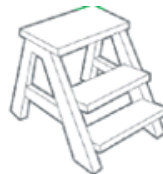
### Tools Required



Safety goggles



Drill



Ladder



Electrical tape



Phillips screwdriver



Flathead screwdriver



Wire cutters



Wire strippers



Hammer

### Hardware Include



AA - Wire nuts x5

### Before You Begin

1. Turn off the electricity at the circuit breaker or fuse box.
2. Choose your installation option.
  - Installation 1- Flush Mount
  - Installation 2 - Surface Mount (Sold Separately)
  - Installation 3 - Pendant / Suspension Mount (Sold Separately)

# LED FLAT PANEL W/BATTERY BACK-UP

## Installation

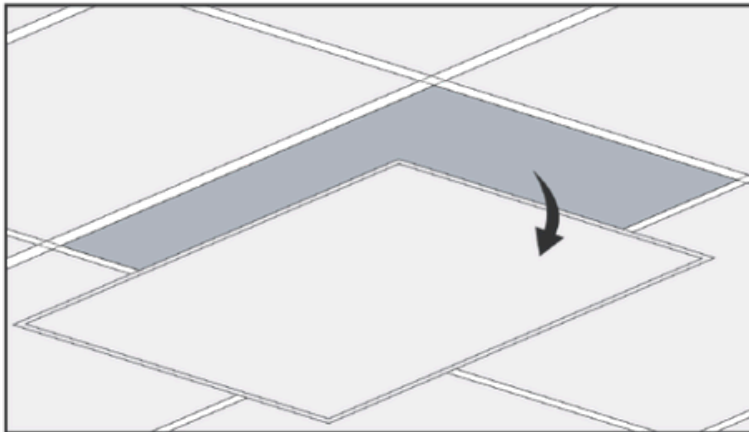
### Flush Mount Installation



Warning: Before you begin, turn the power off at the circuit breaker or fuse box to avoid electric shock.

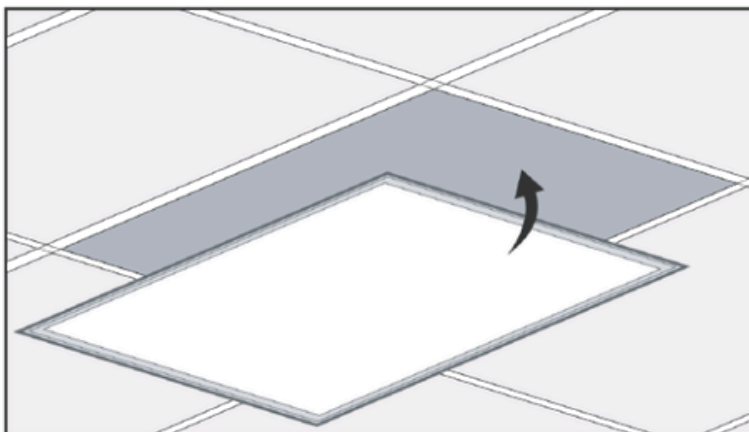
#### 1. Removing the Ceiling Panel

- a. Remove the plasterboard panel from the ceiling.



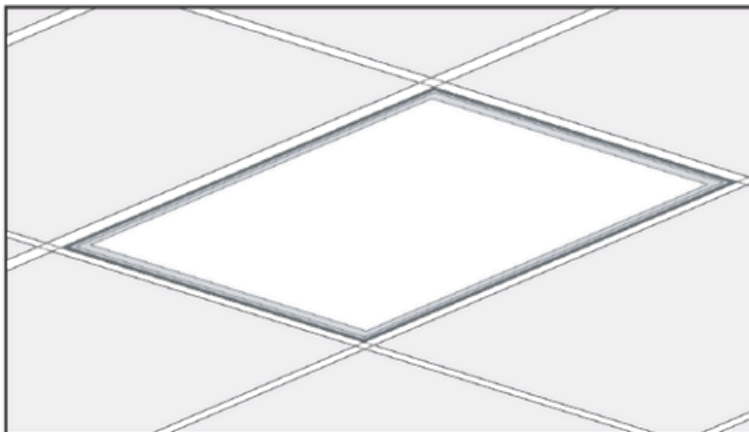
#### 2. Connecting The Wires

- a. Lift the fixture to the ceiling.
- b. Follow the steps in the Making the Electrical Connections section of this manual.



#### 3. Completing The Installation

- a. Slide the fixture into place in the ceiling.
- b. Restore power to the fixture.



# LED FLAT PANEL W/BATTERY BACK-UP

## Installation

### Mounting & Accessory Kits

#### RECESSED INSTALLATION



- 1.Pull up the earthquake hook until it is perpendicular to the panel backing (See Picture 1)
- 2.Bend the hook arm until it is perpendicular to the hook body. (See picture 2)
- 3.Hook the panel to the T-Bar until it is fully supported. (See picture 3)



Earthquake Hook



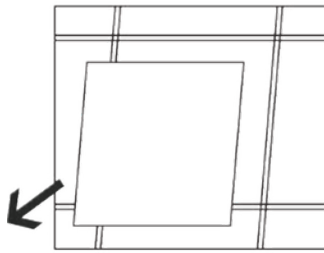
# LED FLAT PANEL W/BATTERY BACK-UP

## Installation

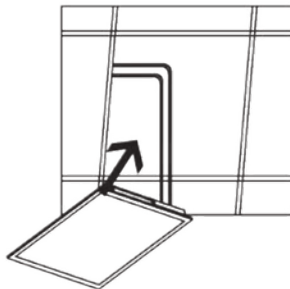
### Mounting & Accessory Kits

#### T-BAR MOUNTING

Available for 2x2' 2x4' versions

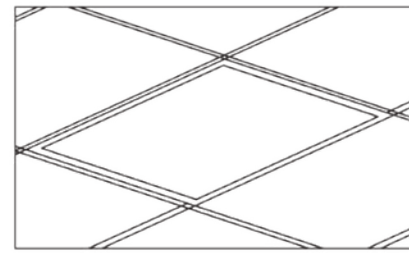


**1.** Remove the plaster board from the ceiling.



**2.** Fix the panel into the ceiling.

\* T-bar mounting clips included  
\* Full installation instructions included

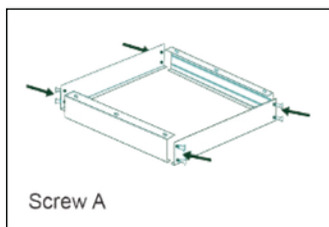
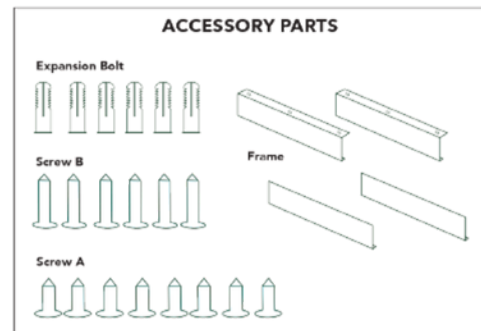


**3.** Installation nished.

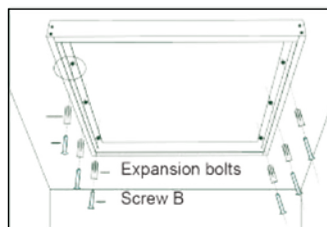
#### SURFACE MOUNTING KIT (OPTIONAL)

Available for 2 x 4 versions only

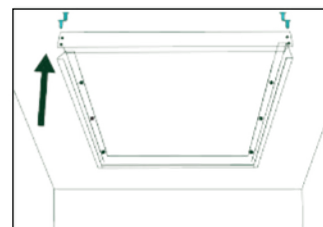
Accessory Parts List	Qty.	Size	Material
Screw A (KS 1x 10)	8	0.04 Inches Diameter, 0.04 Inches Length	Zinc Coated Iron
Screw B (KA 4x 25)	6	0.16 Inches Diameter, 0.98 Inches Length	Zinc Coated Iron
Expansion Bolt	6	0.24 Inches Diameter, 1.18 Inches Length	PVC
Frame	4	24.17 Inches Diameter, 2.44 Inches Length	Aluminum



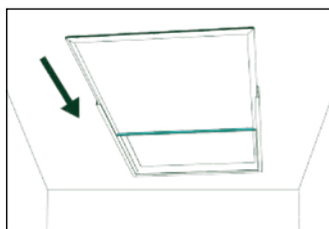
**1.** Assemble the four sides with 2x2 screw A each to create the frame.



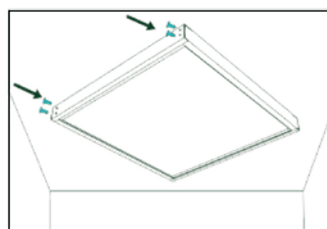
**2.** Fix the frame to the ceiling with screw B and expansion bolts.



**3.** Once securely mounted to the ceiling disassemble one end (without mounting screws to the ceiling)



**4.** Insert the panel into the frame square.



**5.** Reassemble the remaining end with screw A.

# LED FLAT PANEL W/BATTERY BACK-UP

## Installation

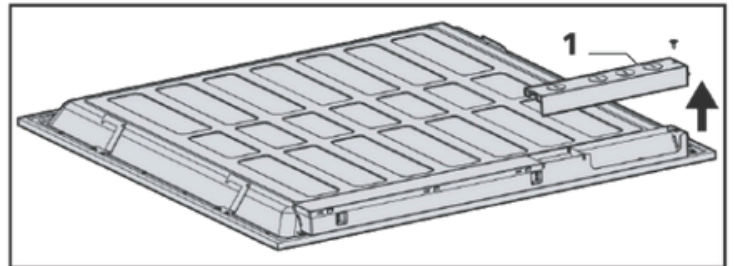
### Making the Electrical Connections



Warning: Before you begin, turn the power off at the circuit breaker or fuse box to avoid electric shock.

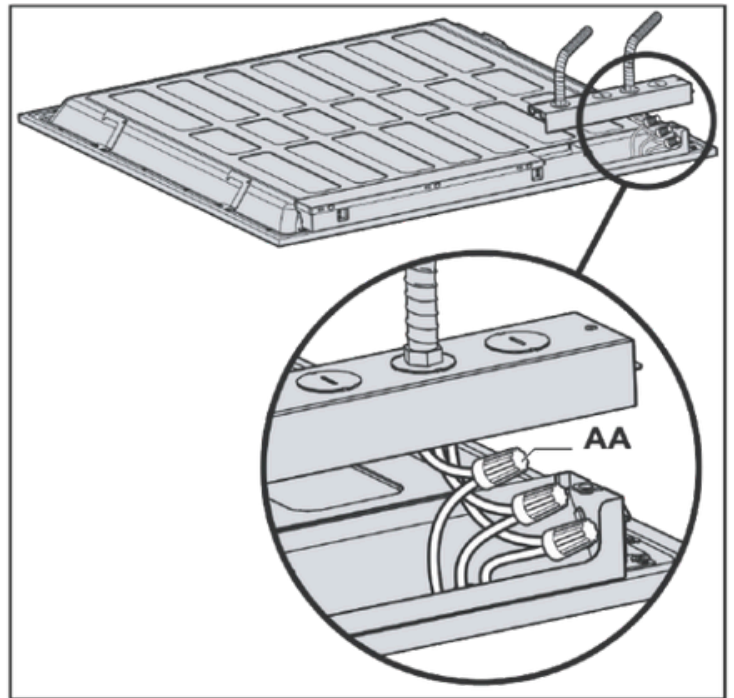
#### 1. Open the Junction Box

- a. Unscrew and remove the junction box cover (1) from the fixture.



#### 2. Connect the Supply Wires

- a. Connect the green wire from the fixture to the supply ground wire.
- b. Connect the white wire from the fixture to the supply white wire (neutral wire).
- c. Connect the black wire from the fixture to the supply black wire (live wire).
- d. Secure the three connections using three wire nuts (AA).
- e. Wrap the three wire connections with electrical tape for a more secure connection.

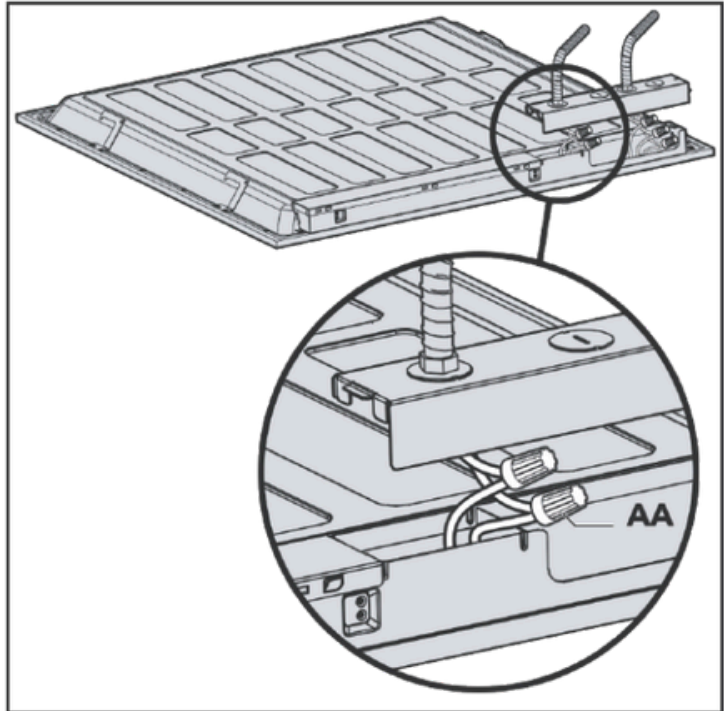


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## Installation

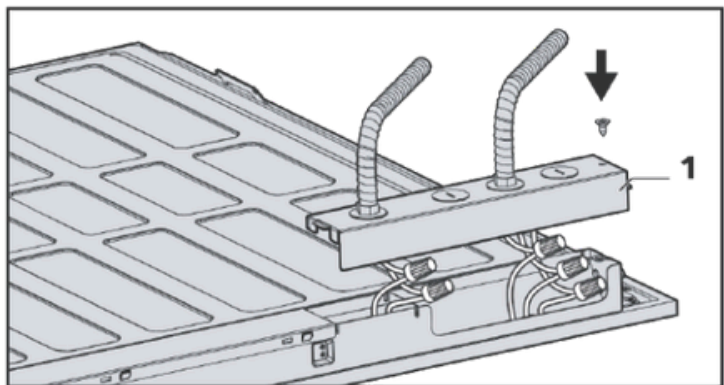
### 3. Connect the Dimming Wires

- a. Connect the purple wire from the fixture to the purple (DIM+) supply wire.
- b. Connect the gray wire from the fixture to the gray (DIM-) supply wire.
- c. Secure the two connections using two wire nuts (AA).
- d. Wrap the two wire connections with electrical tape for a more secure connection.



### 4. Reinstall the Junction Box Cover

- a. Position the wire back inside the junction box.
- b. Reinstall the junction box cover (1).



# LED FLAT PANEL W/BATTERY BACK-UP

## Installation

### Safety Information



**IMPORTANT:** THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRICAL CODE AND LOCAL BUILDING CODES BY PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

### SAVE THESE INSTRUCTIONS.



**WARNING:** Before installation or servicing, turn the power OFF at the circuit breaker or fuse. Place tape over the circuit breaker switch and verify power is OFF at the light fixture.



**WARNING:** Ground the fixture to avoid potential electric shock.



**WARNING:** Wear gloves when handling the fixture as edges are sharp.



**CAUTION:** Connect the fixture to a 120/277 Volt, 60 Hz power source. Any other connection voids the warranty.

**NOTICE:** FCC Regulation states that any unauthorized changes or modification to this equipment not expressly approved by the manufacturer could void the user's authorization to operate this

**IMPORTANT:** The device is tested and found to comply with Part 15 of the FCC Rules. Operation is subject to two conditions: (1) This device may not cause harmful interference and, (2) this device must accept any interference received, including any interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio

communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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## Box Packaging

	Size	Dimensions (Inches)	Qty.	Net Weight	Gross Weight
	2x2'	25.19 x 7.08 x 27.56	4		
	2x4'	48.62 x 8.89 x 25.59	4		

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## Installation

