

Nuvo 65/586

Nuvo Lighting 65-586 2x4 LED Backlit Flat Panel Instruction Manual

MODEL: 65/586

1. Important Safety Information

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, or other hazards that could cause property damage or personal injury.

- **WARNING:** Risk of electric shock. Disconnect power at the fuse or circuit breaker before installing or servicing.
- Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not install in locations where the operating temperature exceeds the fixture's rated temperature.
- Ensure all connections are secure and properly insulated.
- This fixture is suitable for damp locations.

2. Product Overview and Components

The Nuvo Lighting 65-586 is a 2x4 foot LED Backlit Flat Panel with an integrated emergency battery backup. It features selectable color temperatures (CCT) and is designed for commercial and industrial applications.



Figure 1: Front view of the Nuvo Lighting 65-586 LED Backlit Flat Panel. This image shows the full rectangular panel with its white finish, illustrating its sleek and minimalist design suitable for various ceiling installations.

Included Components:

- LED Backlit Flat Panel (Model 65/586)
- Integrated Emergency Battery Backup
- Instruction Manual
- Mounting Hardware (may vary based on installation type, e.g., T-bar clips, suspension kit - sold separately)



Figure 2: Detail of the integrated emergency test button and indicator light. This component allows for manual testing of the emergency battery function and provides visual status of the battery charge.



Figure 3: A close-up view of the panel's corner, highlighting the white frame and the textured surface of the light diffuser. This illustrates the construction and finish quality of the fixture.

3. Setup and Installation

Before installation, ensure the power supply is disconnected at the circuit breaker. This fixture is designed for recessed mounting in T-bar grid ceilings or can be suspended (suspension kit sold separately).

3.1 Mounting Options:

1. **Recessed T-Bar Grid:** Place the panel directly into a standard 2x4 ft T-bar ceiling grid opening. Secure with appropriate clips (if not integrated).
2. **Suspended Mounting:** Use a compatible suspension kit (not included) to hang the panel from the ceiling structure. Follow the suspension kit's instructions for secure installation.



Figure 4: Internal view of the panel's mounting mechanism, showing the metal brackets designed for secure installation within a ceiling grid. This image provides insight into the structural components.

3.2 Electrical Wiring:

1. Ensure the main power supply is OFF.
2. Connect the fixture's input wires to the building's electrical supply (100-347V). Follow standard wiring color codes: Black to Line, White to Neutral, Green/Ground to Ground.
3. For 0-10V dimming functionality, connect the purple wire to the dimmer's positive (+) output and the gray wire to the dimmer's negative (-) output. Ensure the dimmer is compatible with 0-10V LED drivers.
4. Secure all wire connections with appropriate wire nuts or connectors.

3.3 Color Temperature (CCT) Selection:

The fixture features selectable CCT. Locate the CCT selection switch on the back or side of the fixture. Choose between 3500K (Neutral White), 4000K (Cool White), or 5000K (Daylight) before final installation or powering on.

4. Operating Instructions

Once installed and wired, restore power to the fixture.

- **Normal Operation:** The panel will illuminate to the selected CCT and brightness level determined by the 0-10V dimmer (if connected).
- **Dimming:** Adjust the compatible 0-10V dimmer to control the light output from 100% down to 10%.
- **Emergency Operation:** In the event of a power outage, the integrated emergency battery backup will automatically activate, providing approximately 90 minutes of illumination at a reduced lumen output (8W/~1000 lumens).
- **Emergency Test:** Press the integrated test button (refer to Figure 2) to manually check the emergency battery function. The indicator light will show the battery status (e.g., green for charged, red for charging/fault).

5. Maintenance

The Nuvo Lighting 65-586 LED panel is designed for minimal maintenance.

- **Cleaning:** Ensure power is off before cleaning. Wipe the surface of the panel with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **LED Lifespan:** The LED light source has a rated lifespan of 50,000 hours, meaning no bulb changes are required.
- **Emergency Battery:** The integrated emergency battery is maintenance-free. Regular testing using the test button is recommended to ensure proper function.

6. Troubleshooting

If the fixture does not operate correctly, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Fixture does not light up.	No power supply; Loose wiring; Incorrect CCT selection.	Check circuit breaker; Verify all wire connections; Ensure CCT switch is set correctly.
Dimming function not working.	Incompatible dimmer; Incorrect dimming wire connection.	Ensure 0-10V compatible dimmer is used; Check purple and gray wire connections.
Emergency light does not activate during power outage.	Battery not charged; Faulty battery; Test button issue.	Allow 24 hours for initial battery charge; Press test button to check indicator light; Contact support if issue persists.

7. Specifications

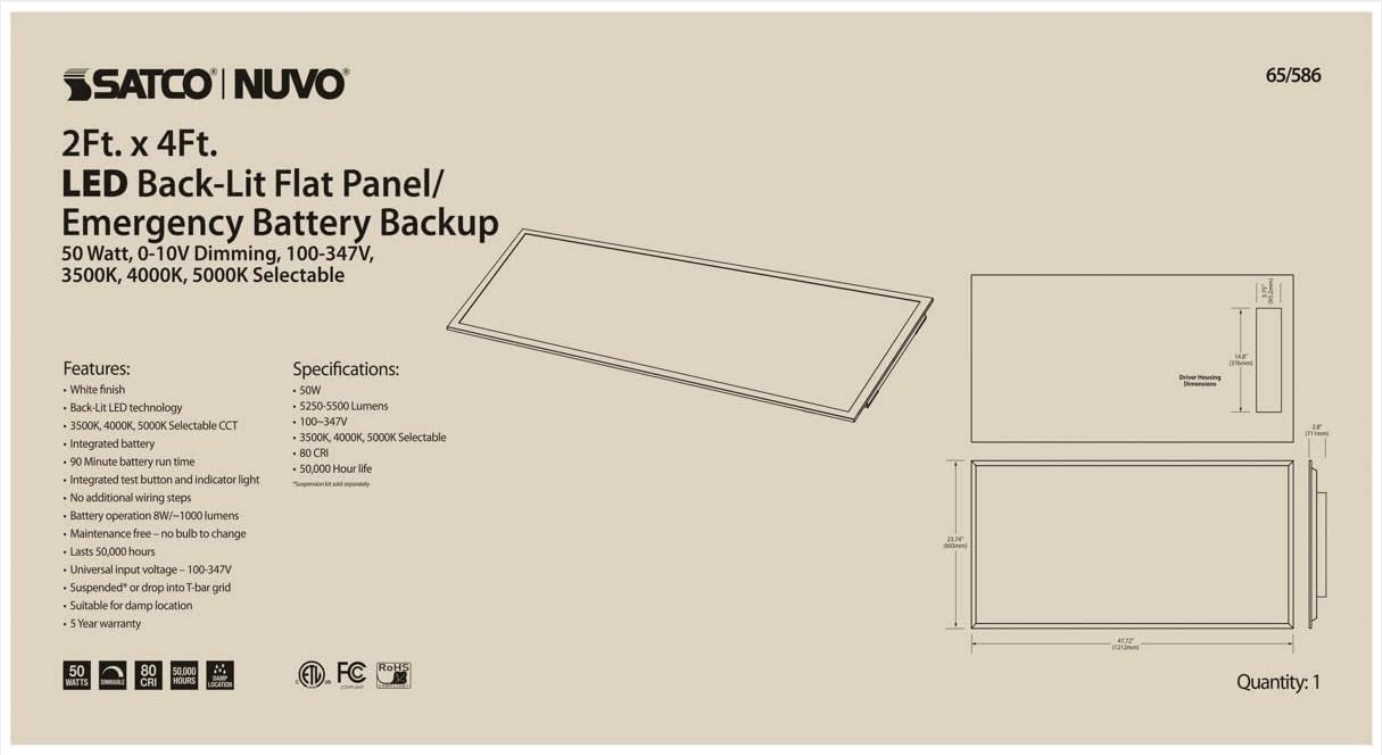


Figure 5: Technical diagram illustrating key features, specifications, and dimensions of the Nuvo Lighting 65-586 LED Backlit Flat Panel. This provides a comprehensive overview for technical reference.

Feature	Detail
Model Number	65/586
Type	LED Backlit Flat Panel with Emergency Battery Backup
Dimensions (L x W x H)	47.72" x 23.75" x 2.88"
Wattage	50 Watts
Voltage	100-347 Volts
Lumen Output	5250-5500 Lumens
Color Temperature (CCT)	Selectable: 3500K, 4000K, 5000K
Color Rendering Index (CRI)	>80
Dimming	0-10V Dimmable
Emergency Runtime	90 minutes (at 8W/~1000 lumens)
Lifespan	50,000 Hours
Finish	White
Material	Alloy Steel, Aluminum
Mounting Type	Panel Mount (Recessed T-bar, Suspended)
Certifications	(Implied from image: UL, FCC, RoHS)

8. Warranty and Support

This Nuvo Lighting product is covered by a **5-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or further inquiries, please contact Nuvo Lighting customer support. Keep your purchase receipt as proof of purchase.

You can visit the official Nuvo store for more information: [Nuvo Store on Amazon](#)

