Specification of 3rd Generation Frameless LED panel light
Features:

**Much higher efficiency: over 100Lm/Watt**
Epistar 2835 SMD LED, Aluminum alloy shell
Frameless, Concise and delicate
Widen light distribution area, reduce the dark area blocked by frame
Enhanced light guide panel, much higher light transmission rate
even and soft light output
DALI, 0-10V, Push, PWM, Triac dimming available
Much lower surface temperature than fluorescent grille light
Even and Soft light beam, without the feeling of dazzling, Anti-glare
Over 50,000 hours lifetime, 50%-80% energy saving than fluorescent light
Solid-state, high shock or vibration resistant
Work without ballast, quick instant response
No flickering. No UV or IR radiation
Compliant with CE, Rohs and UL certificates
3~5 years Warranty

Panel size:

<table>
<thead>
<tr>
<th>Type</th>
<th>300x300mm 12W</th>
<th>600x300mm 24W</th>
<th>600x600mm 36W</th>
<th>620x620mm 36W</th>
<th>1200x300mm 36W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (mm)</td>
<td>295±0.6</td>
<td>595±0.6</td>
<td>595±0.6</td>
<td>620±0.6</td>
<td>1195±0.6</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>295±0.6</td>
<td>295±0.6</td>
<td>595±0.6</td>
<td>620±0.6</td>
<td>295±0.6</td>
</tr>
</tbody>
</table>
**Technical Descriptions:**

LED type: Epistar 2835 SMD LED
Emitting Colors available: White(4000-7000K), Warm white(2500-4000K)
Operating current: 300mA/600mA/900mA
Operating voltage: DC26~31V, DC33~38V
Power consumption: 12W, 24W, 36W, 40W optional
Light-emitting angle: 120 degree
Life: 50000 hours

<table>
<thead>
<tr>
<th>Model</th>
<th>Color</th>
<th>Size (mm)</th>
<th>Current</th>
<th>CRI</th>
<th>Power</th>
<th>Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNL-FLIII-2835-300x300-W</td>
<td>White</td>
<td>295×295</td>
<td>300mA</td>
<td>&gt;80</td>
<td>12 watt</td>
<td>1200Lm</td>
</tr>
<tr>
<td>PNL-FLIII-2835-300x300-WW</td>
<td>Warm White</td>
<td>295×295</td>
<td>300mA</td>
<td>&gt;80</td>
<td>12 watt</td>
<td>1100Lm</td>
</tr>
<tr>
<td>PNL-FLIII-2835-600x300-W</td>
<td>White</td>
<td>595×295</td>
<td>600mA</td>
<td>&gt;80</td>
<td>24 watt</td>
<td>2450</td>
</tr>
<tr>
<td>PNL-FLIII-2835-600x300-WW</td>
<td>Warm White</td>
<td>595×295</td>
<td>600mA</td>
<td>&gt;80</td>
<td>24 watt</td>
<td>2300</td>
</tr>
<tr>
<td>PNL-FLIII-2835-600x600-W</td>
<td>White</td>
<td>595×595</td>
<td>900mA</td>
<td>&gt;80</td>
<td>36 watt</td>
<td>3600</td>
</tr>
<tr>
<td>PNL-FLIII-2835-600x600-WW</td>
<td>Warm White</td>
<td>595×595</td>
<td>900mA</td>
<td>&gt;80</td>
<td>36 watt</td>
<td>3450</td>
</tr>
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<td>Model</td>
<td>Color</td>
<td>Size (mm)</td>
<td>Voltage</td>
<td>CRI</td>
<td>Power</td>
<td>Lumens</td>
</tr>
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</tr>
<tr>
<td>PNL-FLIII-2835-620x620-W</td>
<td>White</td>
<td>620x620</td>
<td>900mA</td>
<td>&gt;80</td>
<td>36 watt</td>
<td>3600</td>
</tr>
<tr>
<td>PNL-FLIII-2835-620x620-WW</td>
<td>Warm White</td>
<td>620x620</td>
<td>900mA</td>
<td>&gt;80</td>
<td>36 watt</td>
<td>3450</td>
</tr>
<tr>
<td>PNL-FLIII-2835-1200x300-W</td>
<td>White</td>
<td>1195x295</td>
<td>900mA</td>
<td>&gt;80</td>
<td>36 watt</td>
<td>3600</td>
</tr>
<tr>
<td>PNL-FLIII-2835-1200x300-WW</td>
<td>Warm White</td>
<td>1195x295</td>
<td>900mA</td>
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</tr>
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</table>

**Light Distribution Graph:**

![Light Distribution Graph](image1)

**Illumination Cone Curve:**

![Illumination Cone Curve](image2)
LED Lumen Attenuation:

<table>
<thead>
<tr>
<th>Operating time (hours)</th>
<th>Lumen decrease (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,000</td>
<td>2.3</td>
</tr>
<tr>
<td>10,000</td>
<td>5.4</td>
</tr>
<tr>
<td>20,000</td>
<td>11.5</td>
</tr>
<tr>
<td>50,000</td>
<td>25.2</td>
</tr>
</tbody>
</table>

DALI Dimming:

PWM digital dimming, standard DALI logarithmic dimming curve.
High frequency PWM dimming, no flicker in video camera.
Dimming range from 0-100%, LED start at 0.1% possible.
Power factor > 0.99, Efficiency > 93%.
Short circuit / Over-temperature / Over load / Over voltage protection.
DALI bus standard: IEC62386-101, 102, 207.
Compliant with Safety Extra Low Voltage standard.
Suitable for indoor environments.
DALI, Push Dim.

The dimming interface priority: First DALI, next Push Dim.
**Push Dimming**

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

**TRIAC Dimming:**

Dimming interface: Tricac/ELV, Push DIM

Apply to leading edge and trailing edge TRIAC dimmers

PWM digital dimming, no alter LED color rendering index.

Dimming range: 0~100%, LED start at 0.1% possible.

Short circuit / Over-temperature / Over load / Non-load protection.

Non-load output voltage 0V to prevent damages to LED caused by poor contact.

Class 2 power supply. Full protective plastic housing.

Compliant with Safety Extra Low Voltage standard.

Suitable for indoor environments.

The dimming interface priority: First Triac, next Push Dim.
0-10V Dimming:

Dimming interface: 0-10V, 1-10V, 10V PWM or Push button
PWM digital dimming, no alter LED color rendering index.
Dimming range: 0~100%, LED start at 0.1% possible.
Short circuit / Over-temperature / Over load / Non-load protection.
Class 2 power supply. Full protective plastic housing.
Suitable for indoor environments.

Applications:

Direct replacement of traditional T8 fluorescent light or Phillip Grille light; can be hanged from the roof or mounted into roof or wall or surfaces of any other objects.
Widely used in commercial or home indoor lighting such as shopping mall, supermarket, conference room, exhibition hall, hotel, office, school, library, hospital, etc..

Packaging of 300x300mm Frameless LED panel light:

Outer carton: 405*350*380mm
Quantity: 5 units/carton
Net weight: 1KG/unit

Packaging of 600×300 Frameless LED panel light:
Installation Guide

A. Hanging/Suspension installation

1. Lock the lockparts of the wire rope branching to the back panel light

2. Lock the hanging part of the wire rope to the ceiling.

3. Lock the lockpart of the main wire rope to the wire rope hanger, connect with the power cable

4. Finish installation, power on working
B. Embedded Installation by Spring clip

1. Punch relative size in the ceiling (all punches dimension should 15mm smaller than the panel light actual size).

2. Fasten the hook adapter to the back holder of the panel light.

3. Connect to the power supply, pull the hook adapter, embed the hook adapter into the ceiling inner side.

4. Finish installation, power on working.

C. Hanging & split jointed installation
295*295mm Panel, the length of 'L' is 233mm
595*595,595*295mm Panel, the length of 'L' is 533mm
620*620mm Panel, the length of 'L' is 558mm
1195*295mm Panel, the length of 'L' is 1133mm

1. Hang the panels in the same height.

1. Take out the two-hole connecting pad in the LED panel
2. Connect two panels by the connecting pad
3. Fasten with screws to the connecting pad
2. Fasten the two panels by the connecting pad.

3. Same way to connect the panels one by one, then power on

4. Finished, light up.

Picture of accessories

Stainless steel Hanging wire ropes:

Spring Clips: