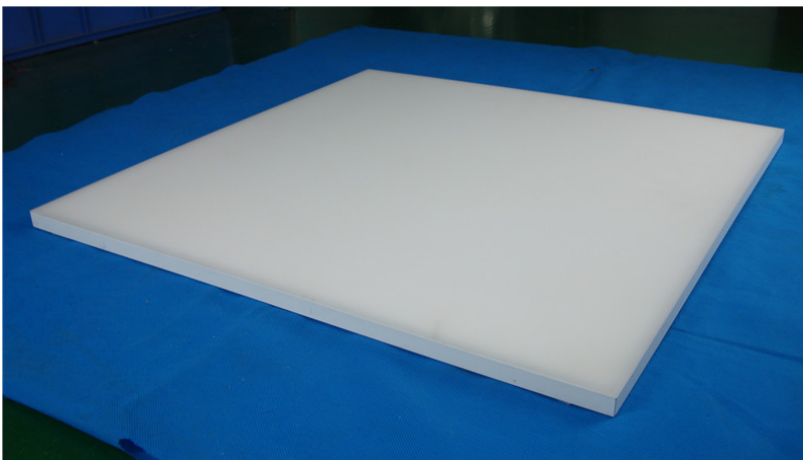
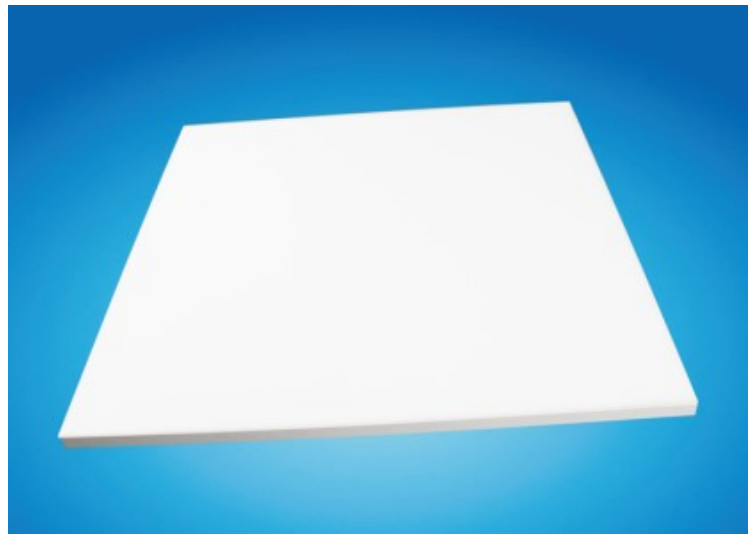


HAICHANG OPTOTECH CO., LIMITED

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Specification of 3rd Generation Frameless LED panel light



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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

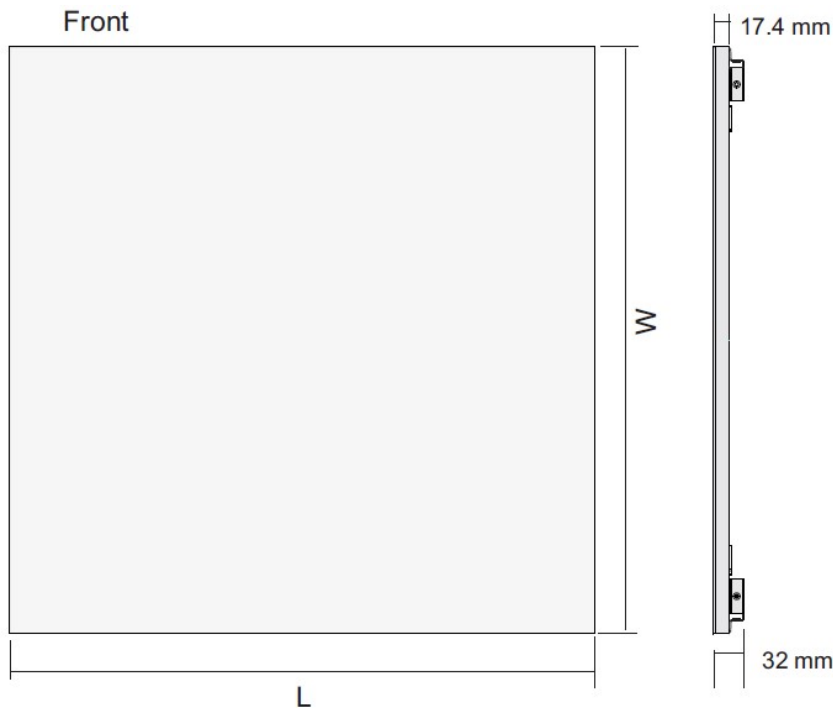
Work without ballast, quick instant response

No flickering. No UV or IR radiation

Compliant with CE, Rohs and UL certificates

3~5 years Warranty

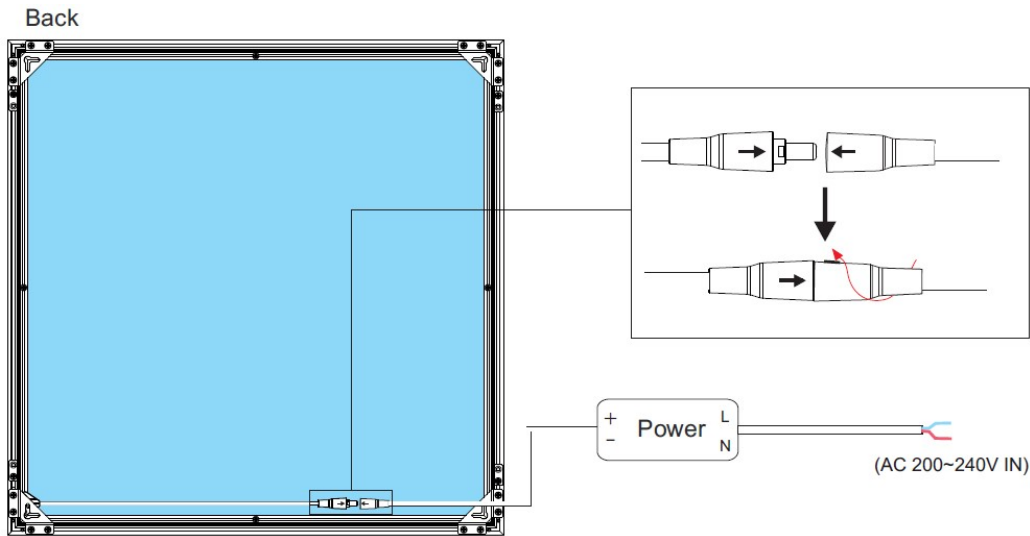
Panel size:



Type	300x300mm 12W	600x300mm 24W	600x600mm 36W	620x620mm 36W	1200x300mm 36W
Length (mm)	295±0.6	595±0.6	595±0.6	620±0.6	1195±0.6
Width (mm)	295±0.6	295±0.6	595±0.6	620±0.6	295±0.6

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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

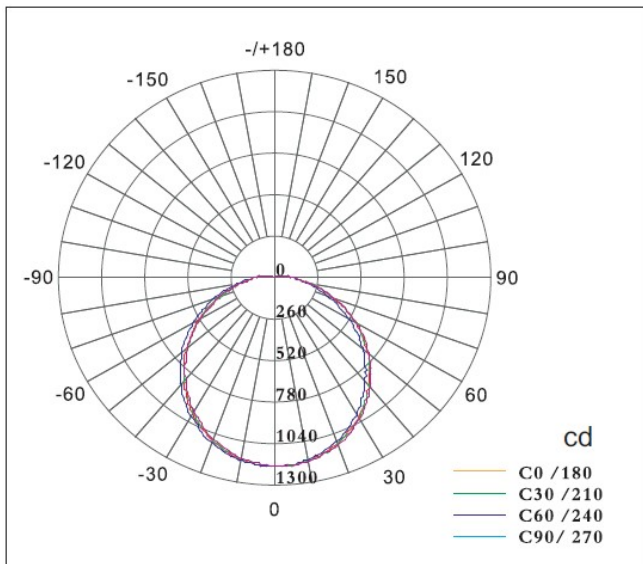
Model	Color	Size (mm)	Current	CRI	Power	Lumens
PNL-FLIII-2835-300x300-W	White	295×295	300mA	>80	12 watt	1200Lm
PNL-FLIII-2835-300x300-WW	Warm White	295×295	300mA	>80	12 watt	1100Lm
Model	Color	Size (mm)	Voltage	CRI	Power	Lumens
PNL-FLIII-2835-600x300-W	White	595×295	600mA	>80	24 watt	2450
PNL-FLIII-2835-600x300-WW	Warm White	595×295	600mA	>80	24 watt	2300
Model	Color	Size (mm)	Voltage	CRI	Power	Lumens
PNL-FLIII-2835-600x600-W	White	595×595	900mA	>80	36 watt	3600
PNL-FLIII-2835-600x600-WW	Warm White	595×595	900mA	>80	36 watt	3450

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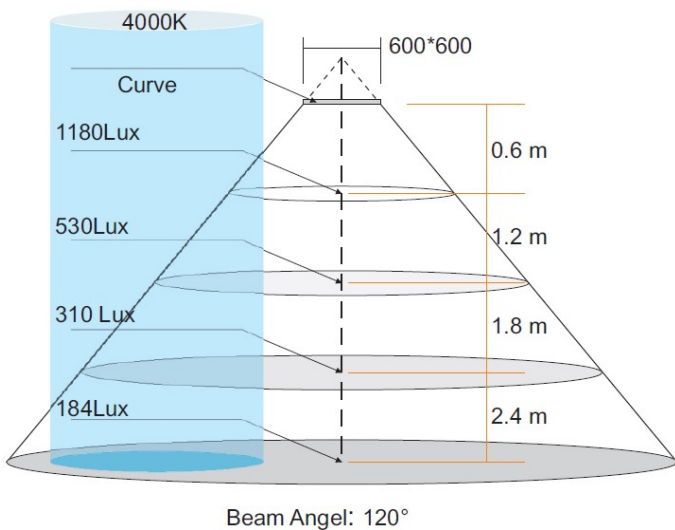
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Model	Color	Size (mm)	Voltage	CRI	Power	Lumens
PNL-FLIII-2835-620x620-W	White	620x620	900mA	>80	36 watt	3600
PNL-FLIII-2835-620x620-WW	Warm White	620x620	900mA	>80	36 watt	3450
Model	Color	Size (mm)	Voltage	CRI	Power	Lumens
PNL-FLIII-2835-1200x300-W	White	1195x295	900mA	>80	36 watt	3600
PNL-FLIII-2835-1200x300-WW	Warm White	1195x295	900mA	>80	36 watt	3450

Light Distribution Graph:



Illumination Cone Curve:



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LED Lumen Attenuation:

Operating time(hours)	Lumen decrease (%)
5,000	2.3
10,000	5.4
20,000	11.5
50,000	25.2

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%.

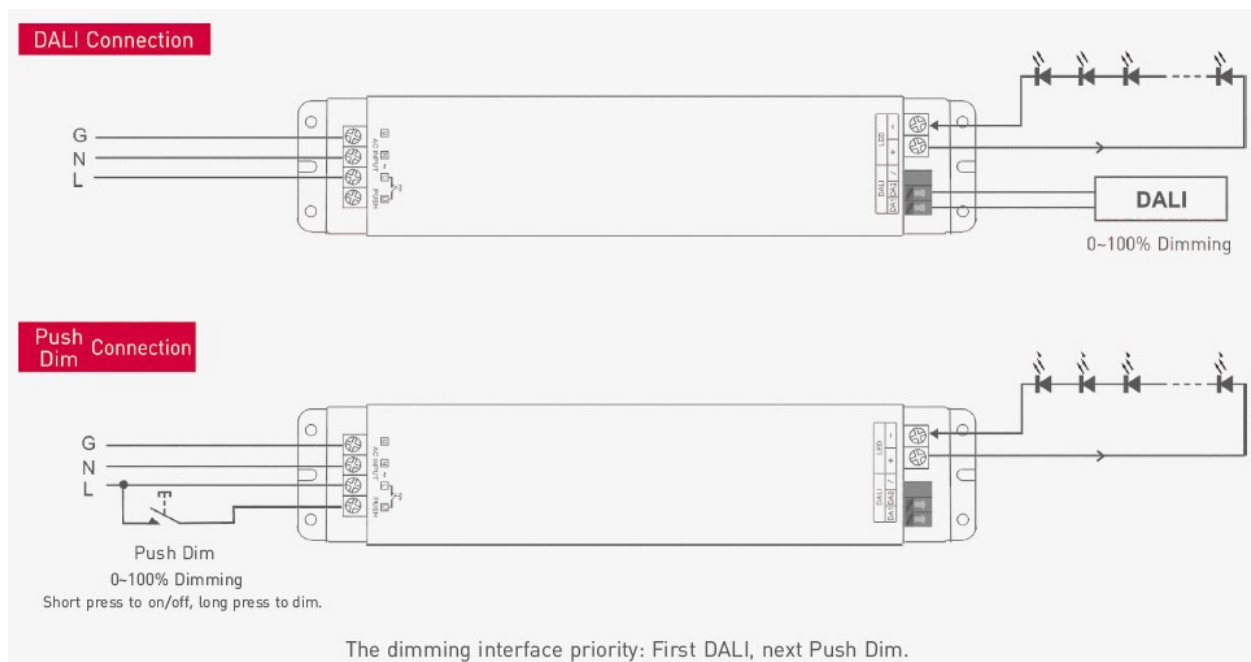
Short circuit / Over-temperature / Over load / Over voltage protection.

DALI bus standard: IEC62386-101, 102, 207.

Compliant with Safety Extra Low Voltage standard.

Suitable for indoor environments.

DALI, Push Dim.



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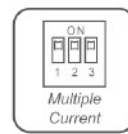
Push Dimming



Reset Switch

- 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: Triac/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.

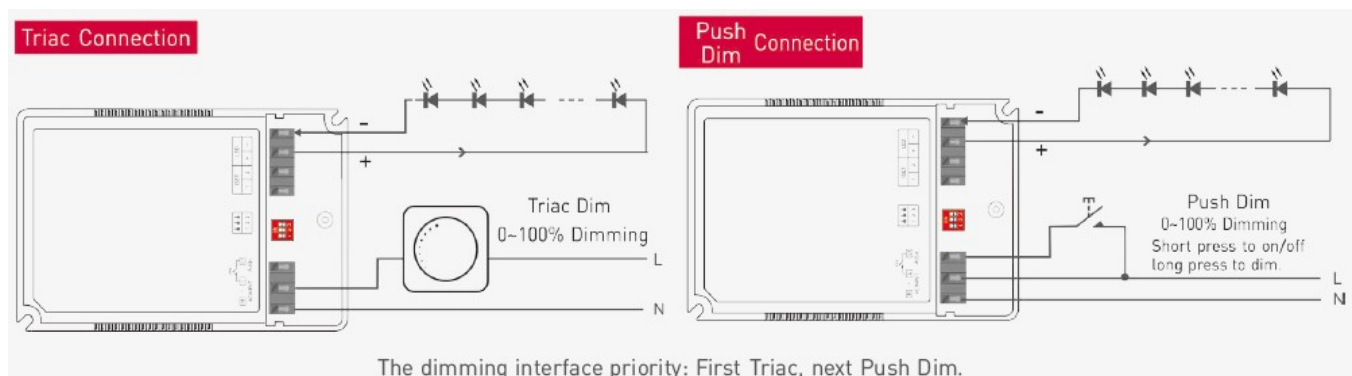
Short circuit / Over-temperature / Over load / Non-load protection.

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.



Reset Switch

- 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.

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0-10V Dimming:

1-10V Dimmer



Dimming interface: 0-10V, 1-10V, 10V PWM or Push button

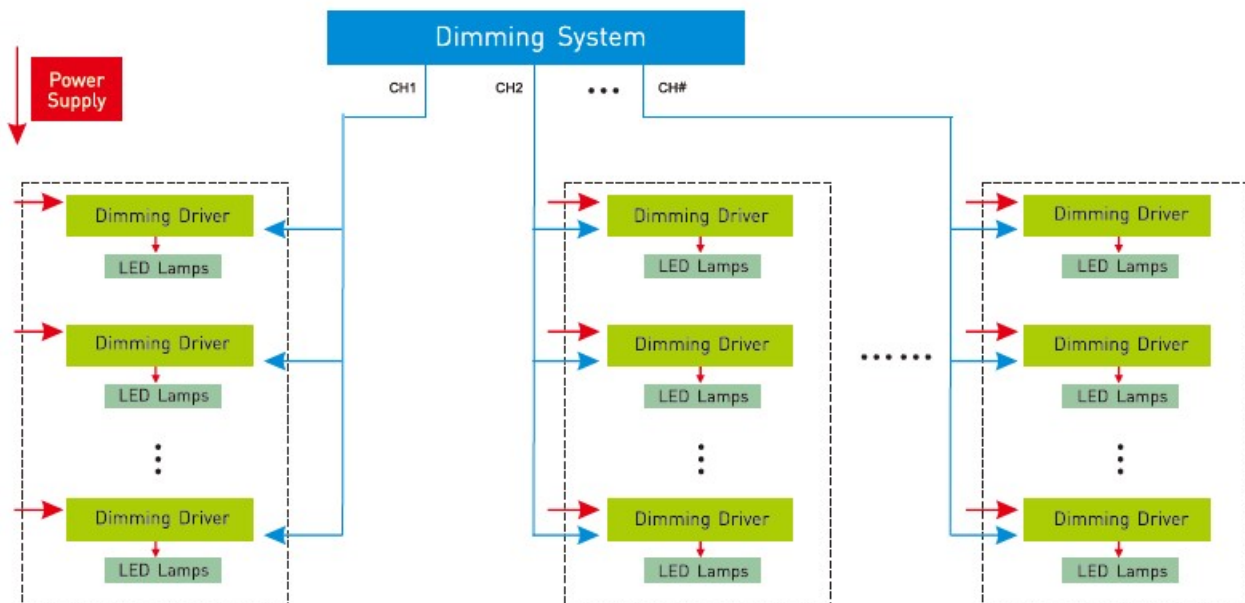
PWM digital dimming, no alter LED color rendering index.

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 600x300 Frameless LED panel light:

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Outer carton: 690*350*370mm

Quantity: 5 units/carton

Net weight: 2.6KG/unit

Packaging of 600×600 Frameless LED panel light:

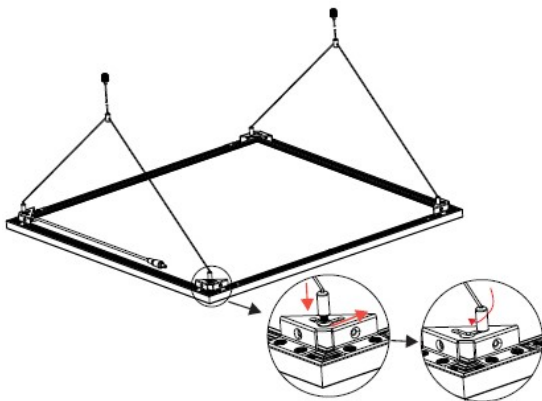
Outer carton: 760*670*350mm

Quantity: 5 units/carton

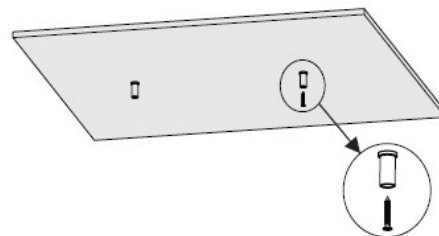
Net weight: 5KG/unit

Installation Guide

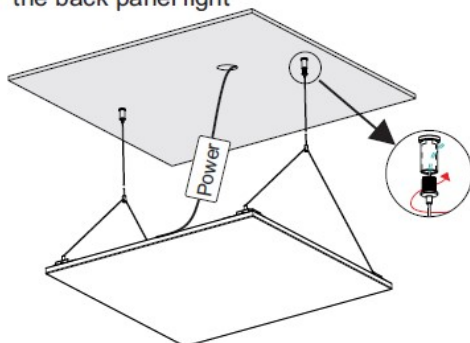
A.Hanging/Suspension installation



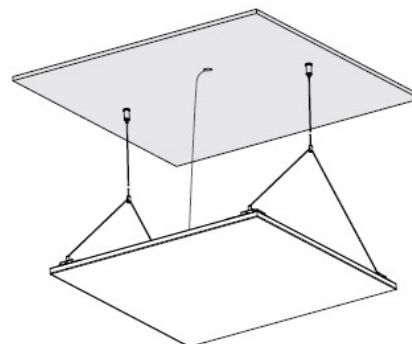
1.Lock the lockparts of the wire rope branching to the back panel light



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

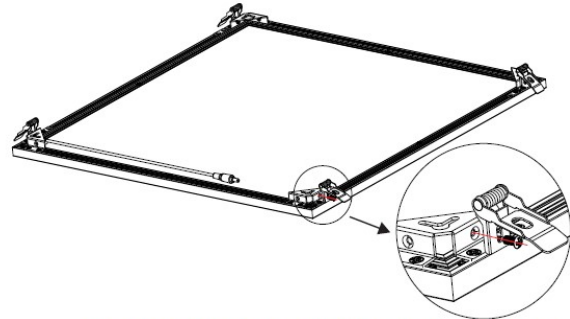
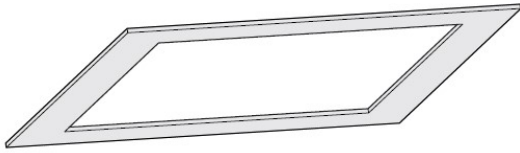


4.Finish installation, power on working

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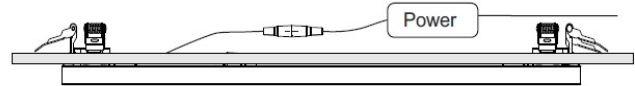
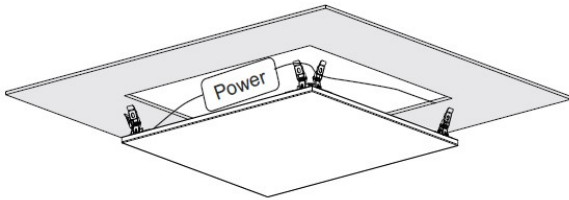
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B.Embedded Installation by Spring clip



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



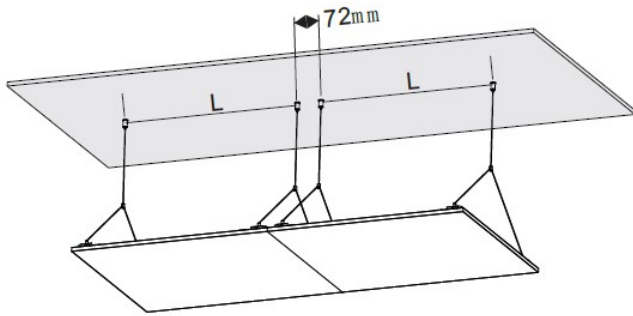
3.Connect to the power supply,pull the hook adapter, embed the hook adapter into the ceiling inner side.

4.Finish installation, power on working.

C. Hanging& split jointed installation

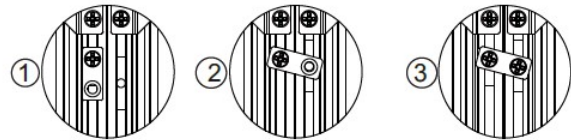
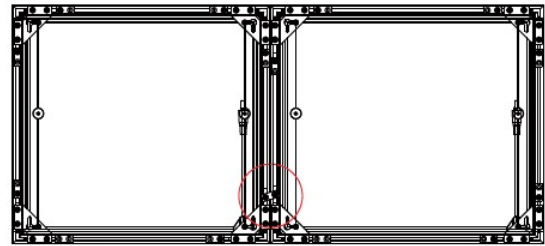
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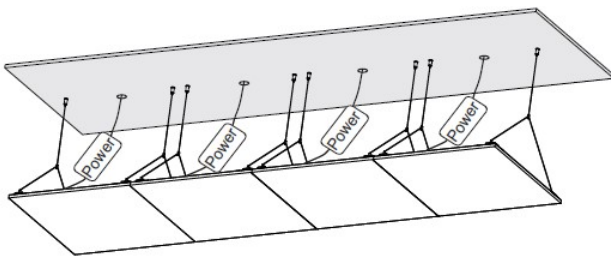


295*295mm Panel, the length of 'L' is 233mm
595*595\595*295mm Panel, the length of 'L' is 533mm
620*620mm Panel, the length of 'L' is 558mm
1195*295mm Panel, the length of 'L' is 1133mm

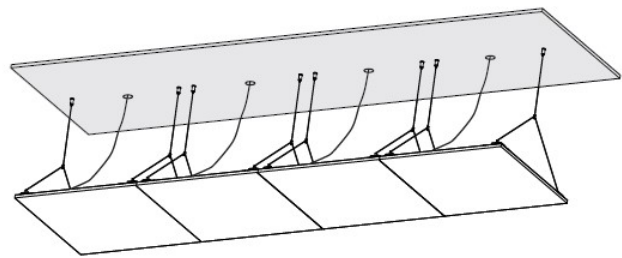
1. Hang the panels in the same height.



- 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 panles by the connecting pad.



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

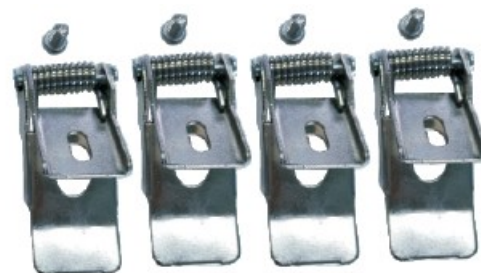


4. Finished, light up.

Picture of accessories



Stainless steel Hanging wire ropes :



Spring Clips :