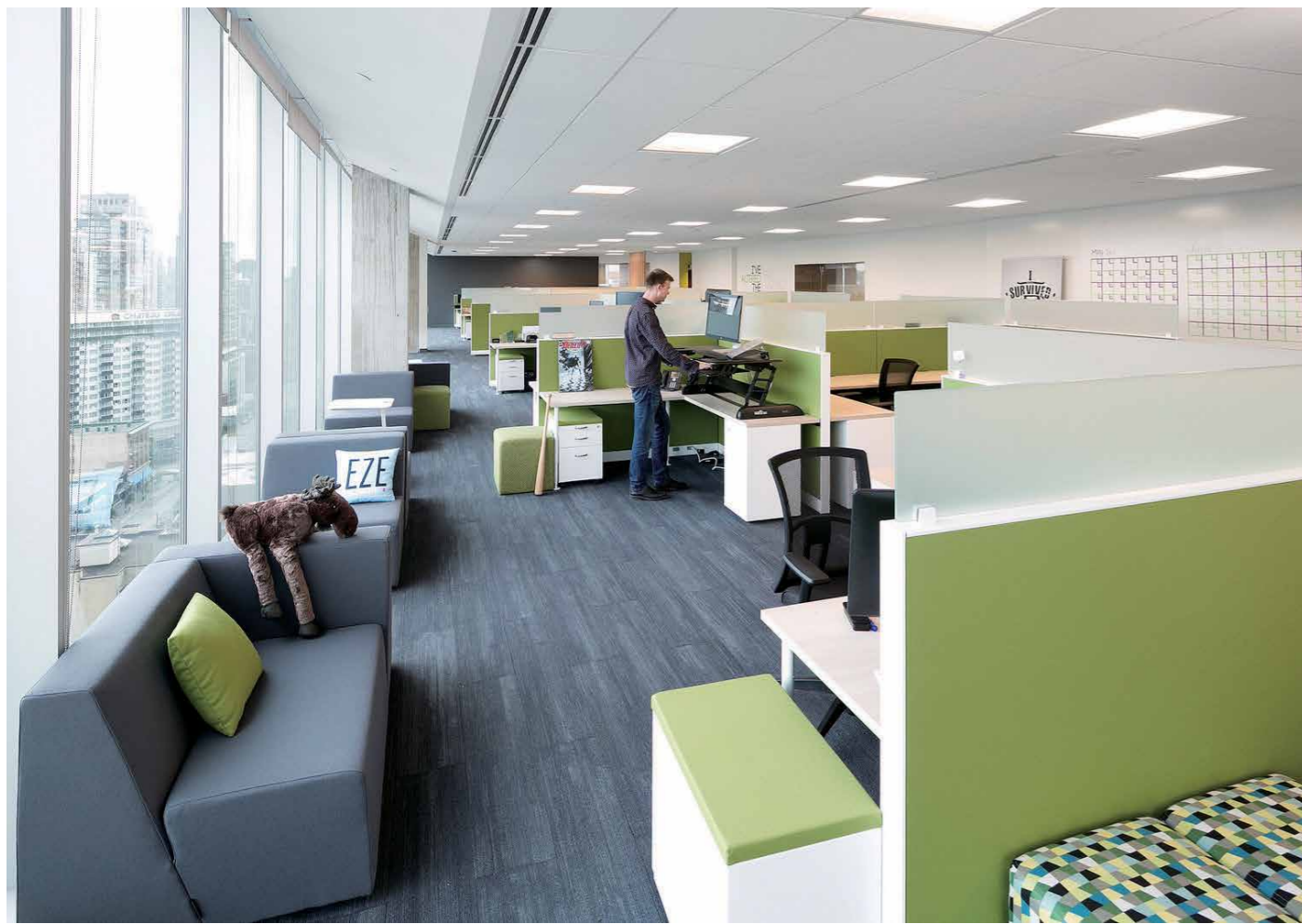


Opal BL Series

Backlit LED Panel Light 100lm/W





Introduction

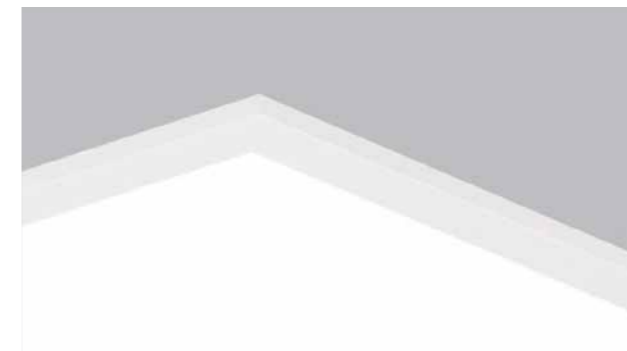
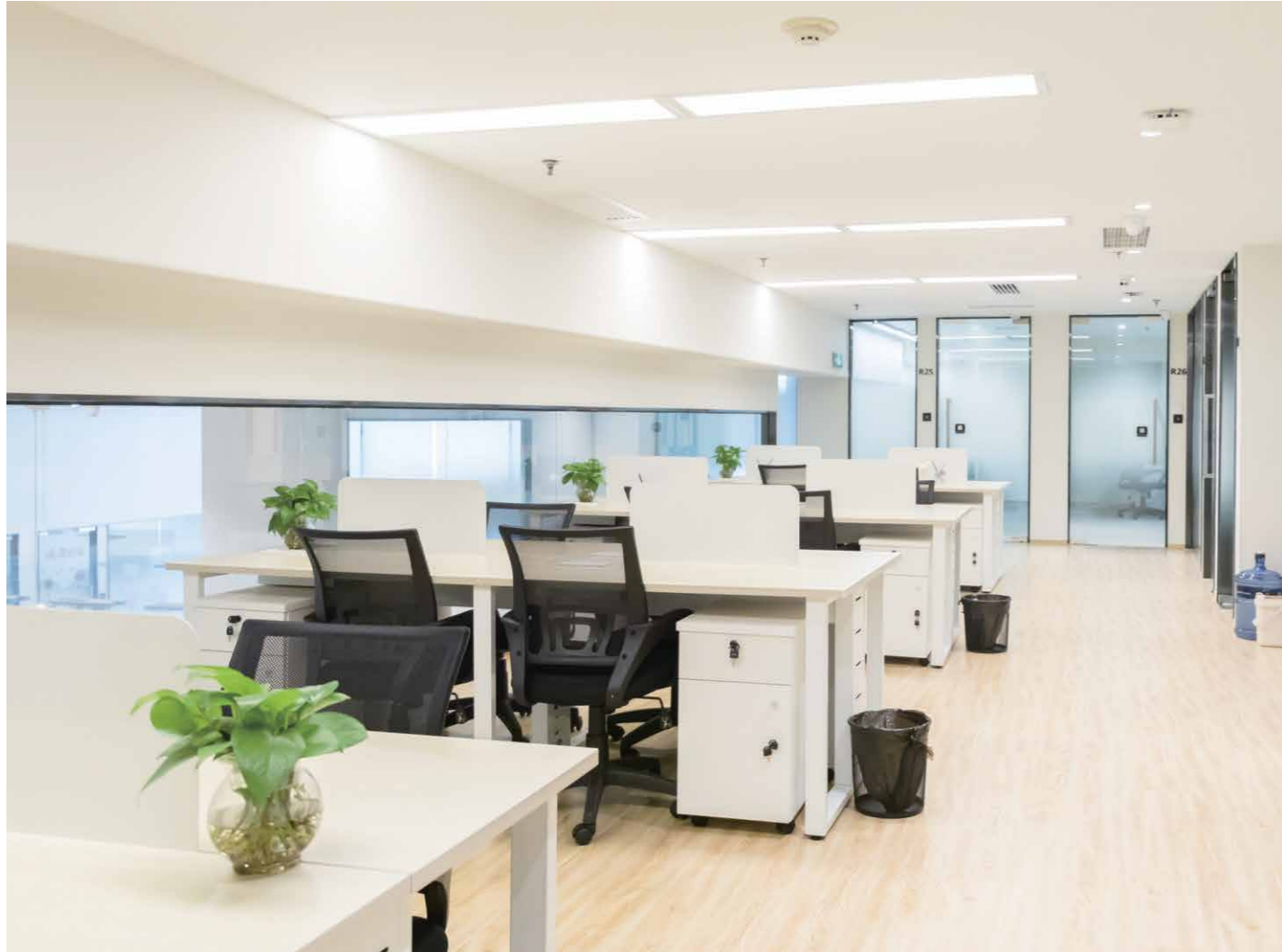
Backlit LED Panel Light is a direct lighting product with high lumen efficiency. It makes full use of all light and is more cost effective compared with side lighting LED panel light. Adopt optical lens to offer a uniform light effect. With integrated iron plate, it provides great thermal management.

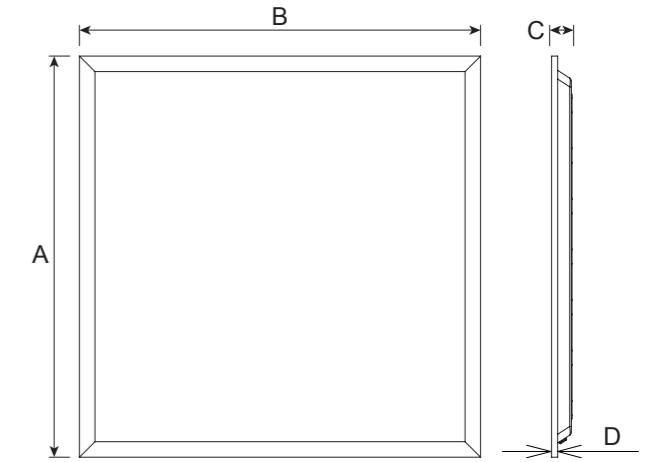
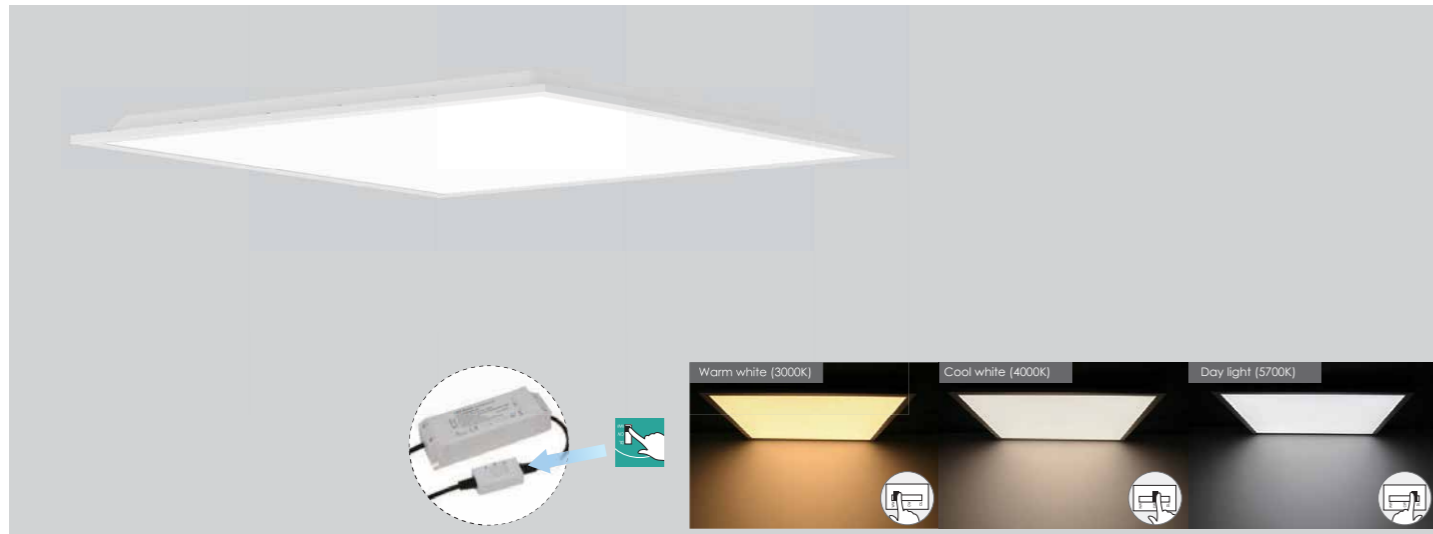
Features

- Uniform light effect with optic lens.
- Integrated iron plate design provides excellent thermal management.
- Concise design offers high cost performance.
- Built-out driver.
- Installation: recessed, suspended and surface mounted.

Application Areas

Office & school lighting: office room, meeting room, class room etc. Commercial lighting: shopping mall, super market, retailer shops etc. Other situations: hospital, laboratory, dust-free workshop etc.





Technical Data Sheet

| Model No. | GUOPA-16W-3060-BL-100 | GUOPA-36W-6060-BL-100 | GUOPA-36W-6262-BL-100 | GUOPA-36W-1230-BL-100 | GUOPA-60W-1260-BL-100 | | |
|--------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------|-----------|
| Dimension(mm) | 295*595*32 | 595*595*32 | 620*620*32 | 295*1195*32 | 595*1195*32 | | |
| Cutout (mm) | - | | | | | | |
| Watt(W) | 16W | 36W | 36W | 36W | 60W | | |
| Rated Input Voltage(V) | AC230 | | | | | | |
| Input Voltage(V) | AC200-240V | | | | | | |
| LED Module Input | 30-42V DC 400mA CC | 30-42V DC 850mA CC | 30-42V DC 850mA CC | 30-42V DC 850mA CC | 30-42V DC 1500mA CC | | |
| Light Source | SMD | | | | | | |
| SDCM | - | | | | | | |
| CCT(K) | 1-CCT: 3000K/4000K/5000K/5700K 3-CCT: 3000K+4000K+5700K | | | | | | |
| CCT Selection DIP Switch | Yes | | | | | | |
| Luminous Flux (lm) ±5% | Non-DIM | 1-CCT | 1440-1600 | 3240-3600 | 3240-3600 | 3240-3600 | 5400-6000 |
| | | | DIM | 1370-1520 | 3080-3420 | 3080-3420 | 3080-3420 |
| | Non-DIM | 3-CCT | 1410-1470 | 3175-3300 | 3175-3300 | 3175-3300 | 5290-5520 |
| | | | DIM | 1320-1420 | 3010-3200 | 3010-3200 | 3010-3200 |
| CRI | ≥80 (≥90 Optional) | | | | | | |
| Beam Angle (°) | 120° | | | | | | |
| UGR | 22 | | | | | | |
| LED Driver | Built-out | | | | | | |
| Dimming Option | Triac / 0-10V / DALI | | | | | | |
| Sensor | - | | | | | | |
| Emergency Kits | - | | | | | | |
| Electrical Class | Class II | | | | | | |
| Ingress Protection (IP Rating) | IP40 | | | | | | |
| Impact Resistance (IK Rating) | - | | | | | | |
| Product Finishing(Base) | White 9016 | | | | | | |
| Materials of Optics | PMMA(Lens) + PS(Diffuser) | | | | | | |
| Materials of Housing | Aluminum(Frame) | | | | | | |
| Lifetime (hr) | 50,000h | | | | | | |
| Glow wire test (°C) | 650°C | | | | | | |
| Operating Temp. (°C) | -20°C ~45°C | | | | | | |
| Storage Temp. (°C) | -20°C ~65°C | | | | | | |
| Installation | Pendant/recessed/Surface mounted. | | | | | | |

Measurement

| Model | Dimension(mm) | | | | Size(mm) | Product Weight (Kg) | |
|-------|---------------|------|----|---|-------------|---------------------|--------------|
| | A | B | C | D | | N.W/PC | G.W/PC |
| 3060 | 295 | 595 | 32 | 9 | 295*595*32 | 1.01 | 1.25 2.37 |
| 6060 | 595 | 595 | 32 | 9 | 595*595*32 | 1.56 | 1.97 3.67 |
| 6262 | 620 | 620 | 32 | 9 | 620*620*32 | 1.98 | 2.44 4.55 |
| 1230 | 295 | 1195 | 32 | 9 | 295*1195*32 | 1.72 | 2.16 4.02 |
| 1260 | 595 | 1195 | 32 | 9 | 595*1195*32 | 3.2 | 3.95 7.4 |

Driver Datasheet (Non-Dimmable)

| Total load wattage | | 16W | 36W | 60W |
|--------------------|--|-----------------------------------|---------|---------|
| Output | Output Voltage range | DC30-42V | | |
| | Rated output current | 400mA | 850mA | 1500mA |
| | Line Regulation | ±5% | | |
| | Setup, Rise Time | ≤1S | | |
| Input | Flickering Index | - | | |
| | Input Voltage | AC200-240V | | |
| | Rated Input Voltage(V) | AC230V | | |
| | Frequency | 50/60Hz | | |
| | Input Current | ≤0.09A | ≤0.2A | ≤0.34A |
| | Rated Input Current | ≤0.08A | ≤0.18A | ≤0.29A |
| | Power Factor | ≥0.9 | | |
| | THD | <20% @230V | | |
| | Efficiency | ≥85% | ≥88% | ≥88% |
| | No load wattage | <0.5W | <0.5W | <0.5W |
| Protection | Short circuit protection | Pass | | |
| | Over voltage protection | Pass | | |
| | Over temperature protection | Pass | | |
| Safety & EMC | Withstand voltage | AC3750V | | |
| | Isolation Resistance | I/P-O/P: 500VDC, ≥100M Ω | | |
| | Surge | L-N 0.5KV | L-N 1KV | L-N 1KV |
| | EMC Emission | EN55015, EN61000-3-2, FCC PART 15 | | |
| EMC Immunity | EN61000-4-2,3,4,5,6,8,11; EN61547, FCC PART 15 | | | |

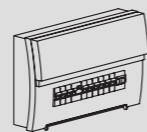
Driver Datasheet (Triac Dimmable)

| Total load wattage | | 16W | 36W | 60W |
|--------------------|-----------------------------|--|---------|---------|
| Output | Output Voltage range | DC30-42V | | |
| | Rated output current | 350mA | 850mA | 1500mA |
| | Line Regulation | ±5% | | |
| | Setup, Rise Time | ≤1S | | |
| | Flickering Index | - | | |
| Input | Input Voltage | AC200-240V | | |
| | Rated Input Voltage(V) | AC230V | | |
| | Frequency | 50/60Hz | | |
| | Input Current | ≤0.09A | ≤0.2A | ≤0.34A |
| | Rated Input Current | ≤0.08A | ≤0.18A | ≤0.29A |
| | Power Factor | ≥0.9 | | |
| | THD | <20% @230V | | |
| | Efficiency | ≥82% | ≥85% | ≥85% |
| | No load wattage | <1W | <1W | <1W |
| Protection | Short circuit protection | Pass | | |
| | Over voltage protection | Pass | | |
| | Over temperature protection | Pass | | |
| Safety &EMC | Withstand voltage | AC3750V | | |
| | Isolation Resistance | I/P-O/P: 500VDC, ≥100M Ω | | |
| | Surge | L-N 0.5KV | L-N 1KV | L-N 1KV |
| | EMC Emission | EN55015, EN61000-3-2, FCC PART 15 | | |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11; EN61547, FCC PART 15 | | |

Installation Procedure

WARNING ⚡

1. Switch off power supply before installation / maintenance.
2. Switch on after completing installation and examination of the circuit.
3. The panel light must be installed and maintained by professional electrician.

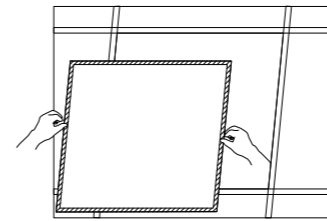


Turn Off Power Supply

Turn off power supply before installation. Read instructions and make sure you have all the tools and accessories before installation.

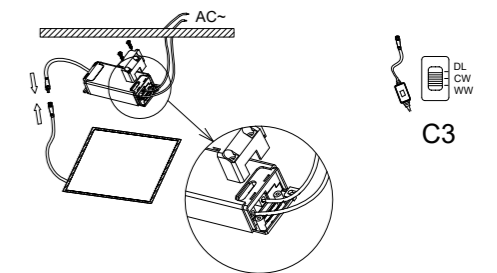
Recessed into ceiling

Step 1



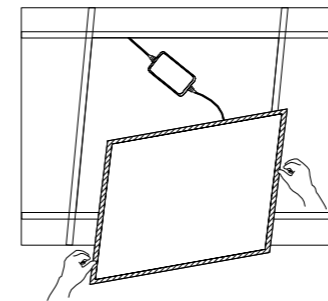
Remove the ceiling plaster slab.

Step 2



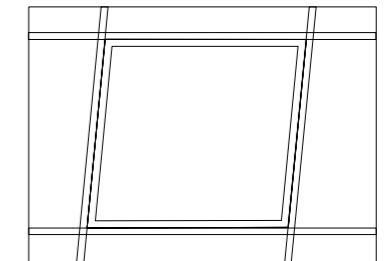
Fix 2pcs of clips to one side of frame by screw, then insert the frame into ceiling.

Step 3



Fix the panel light into plaster ceiling.

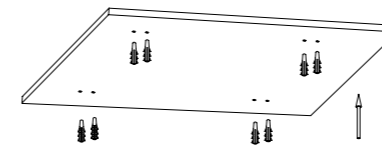
Step 4



Make sure the led panel light is firmly fixed, turn on the power.

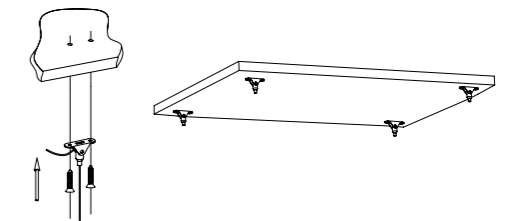
Suspending

Step 1



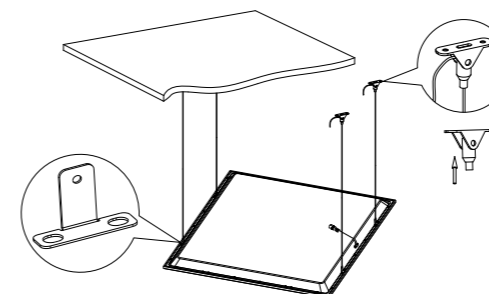
Fix the anchor into target place on the ceiling.

Step 2



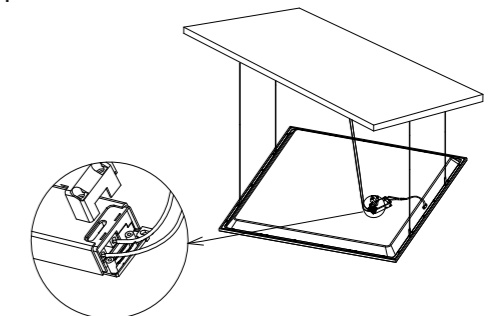
Fix the installation mount on the ceiling with plastic anchor.

Step 3



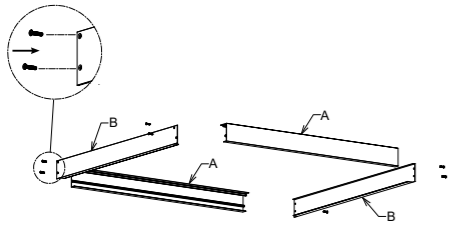
Hang the panel to ceiling with suspended installation kits, adjust the length of steeling wires.

Step 4



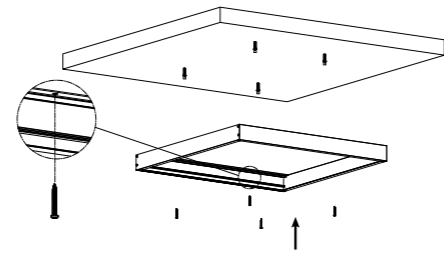
Feed the main AC wire in driver terminal block respectively, turn on the power.

Step 1



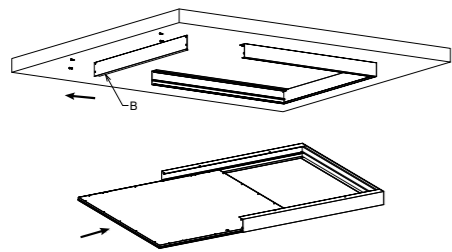
Assemble the surface mounted frame and fix by screws.

Step 2



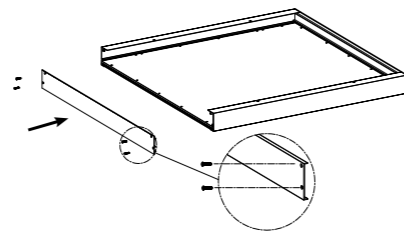
knock the plastic anchor into ceiling, fix the surface mounted frame on the ceiling by screws.

Step 3



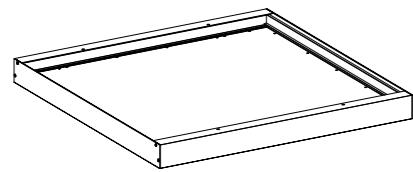
Unscrew the side frame then take out, connect the panel light to power supply, insert the panel light into the frame.

Step 4



Fix the side frame back by screw.

Step 5



Make sure the frame and panel light are firmly fixed, turn on the power.