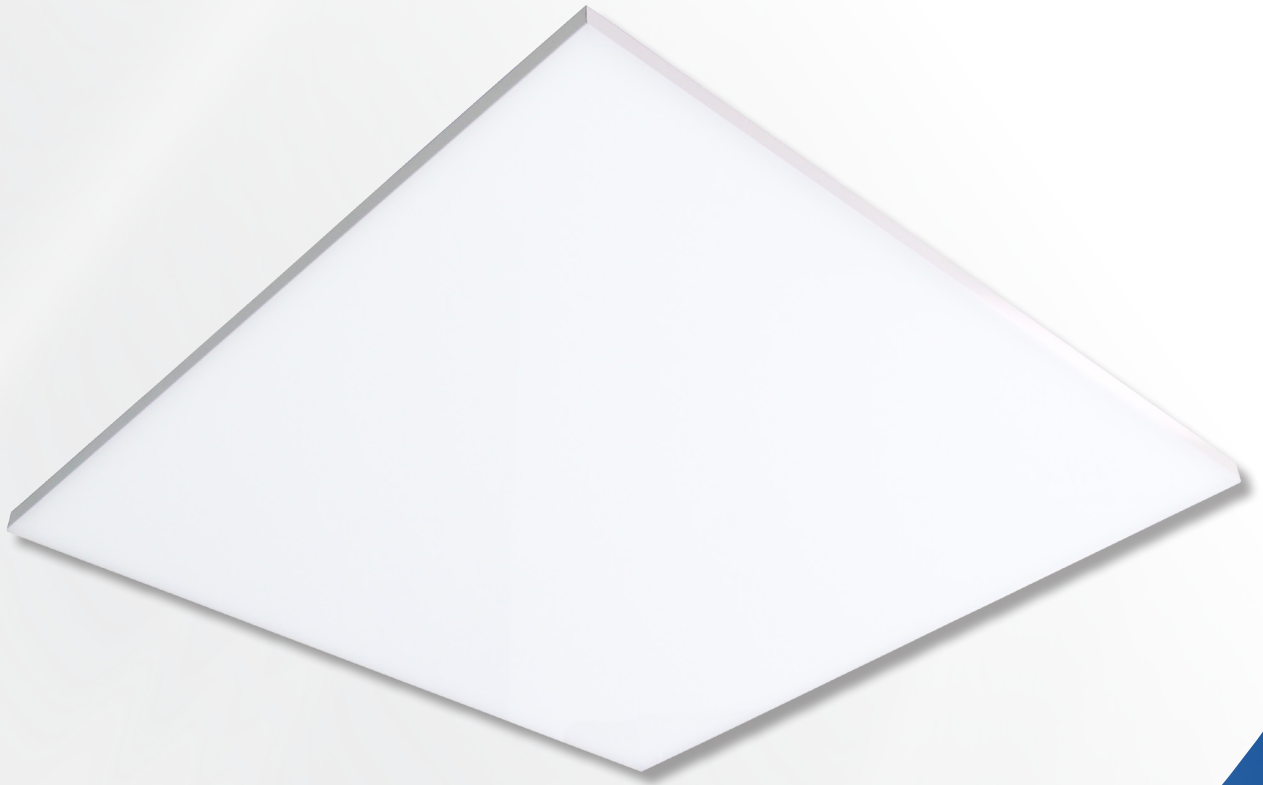




UPSHINE<sup>®</sup>



Technical Application  
Guide for UP-SHINE  
LED Frameless  
Panel Light

UP-PL6060-36W-P

# Introduction



Frameless panel is an improved version compared to regular panels. They are of high lumen output, high CRI > 80, top branded driver with stable working performance. Dimmable version comes with triac dim, 0-10V dim, DALI dim, it shares great popularity by perfect dimming range and great compatibility with worldwide dimmers. The Frameless structural design makes it special and elegant. 5mm thickness diffuser with extremely even light output provides high quality lighting effect.

- Up to 80% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Dimmable when using triac dimmer
- 120° wide beam angle
- CCT: 3000K 4000K  
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

## Application notes

- IP40 for indoor use
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

## Application Areas

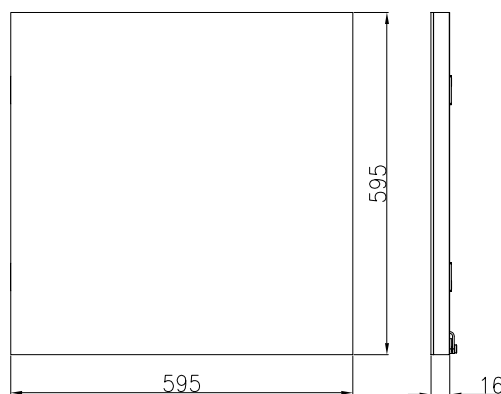
Widely used for various commercial lighting and residential lighting applications, such as office, shopping mall, hotel, restaurant, hospital, home lighting etc.

## Certificates

**CE RoHS SAA**



# Product Information



## Technical Specifications

| Model           | Voltage    | Power | Power Factor | Lumen (±5%) | Beam angle | CCT   | Lifespan | CRI | Dimmable | Dimension    |
|-----------------|------------|-------|--------------|-------------|------------|-------|----------|-----|----------|--------------|
| UP-PL6060-36W-P | AC100-240V | 36W   | ≥0.9         | 2700        | 120°       | 3000K | 40000h   | ≥80 | No       | 595*595*16mm |
| UP-PL6060-36W-P | AC100-240V | 36W   | ≥0.9         | 2800        | 120°       | 4000K | 40000h   | ≥80 | No       | 595*595*16mm |
| UP-PL6060-36W-P | AC100-240V | 36W   | ≥0.9         | 2880        | 120°       | 5000K | 40000h   | ≥80 | No       | 595*595*16mm |
| UP-PL6060-36W-P | AC100-240V | 36W   | ≥0.9         | 2900        | 120°       | 5700K | 40000h   | ≥80 | No       | 595*595*16mm |

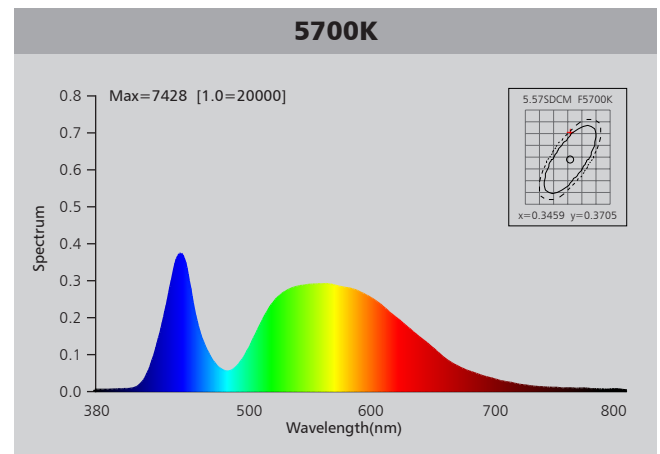
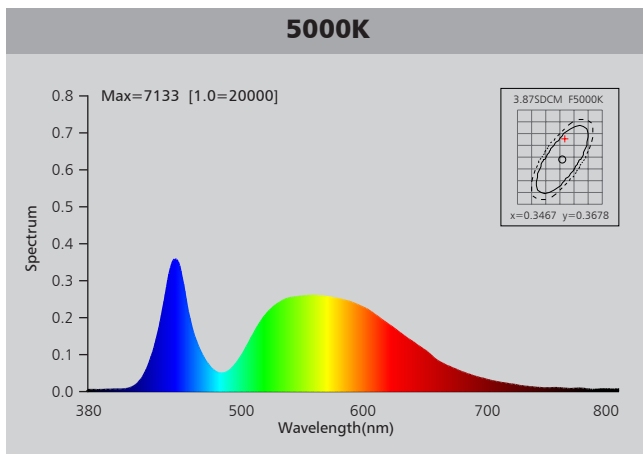
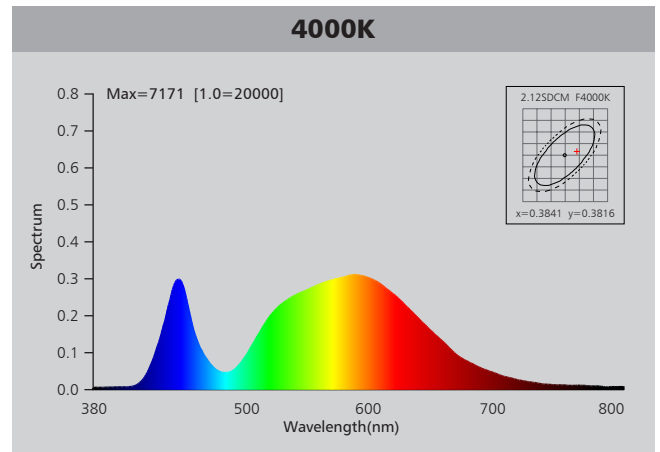
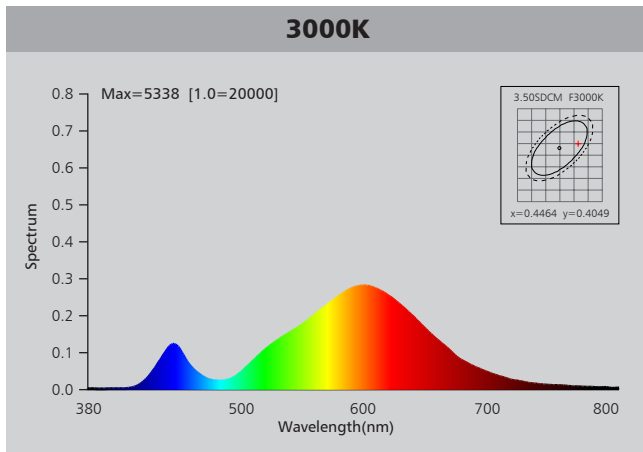
## Driver data Sheet

| Driver data                 | Non-dim    |
|-----------------------------|------------|
| Input rated Voltage         | AC100-240V |
| Frequency                   | 50/60Hz    |
| Input Voltage               | AC85-265V  |
| Efficiency                  | ≥86%       |
| Total load Wattage          | 36W±5%     |
| Power Factor                | ≥0.9       |
| Rated input current         | ≤0.4A      |
| Full load output Voltage    | DC35-50V   |
| Rated output current        | 700mA      |
| Output current range        | 700mA±5%   |
| Power tolerance             | ±5%        |
| Current output tolerance    | ±5%        |
| Dimming range               | —          |
| Dimmer                      | —          |
| Short circuit protection    | PASS       |
| Over voltage protection     | PASS       |
| Over temperature protection | PASS       |
| Withstand voltage           | AC3750V    |

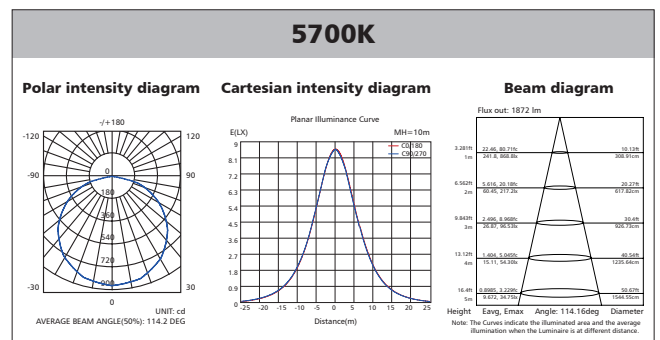
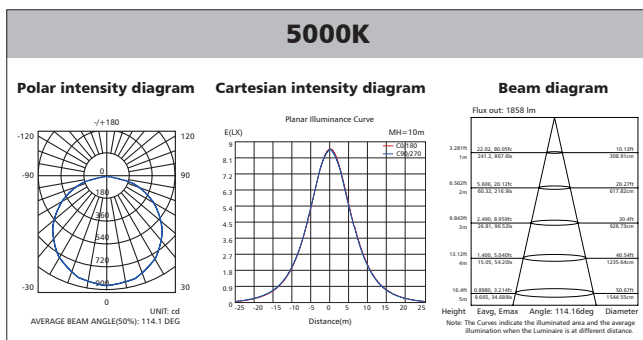
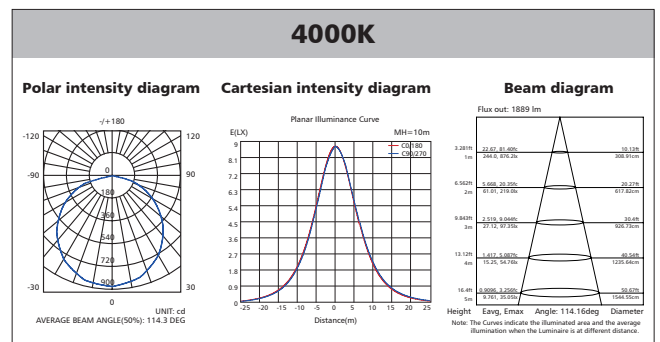
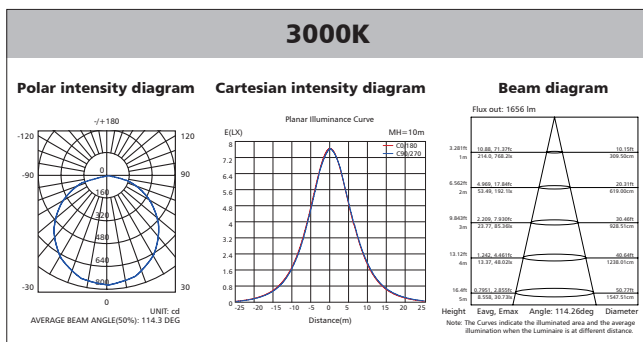
## Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 36W           | II                        | IP40               | -20°C~45°C     | 0~90%              | -20°C~65°C   |

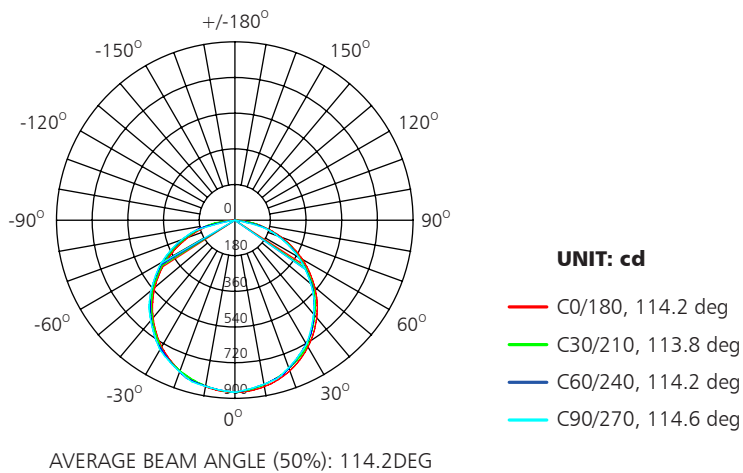
# Spectral Distribution



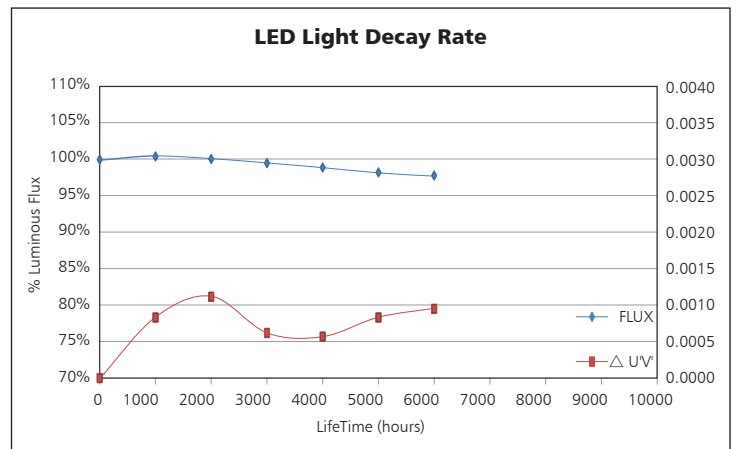
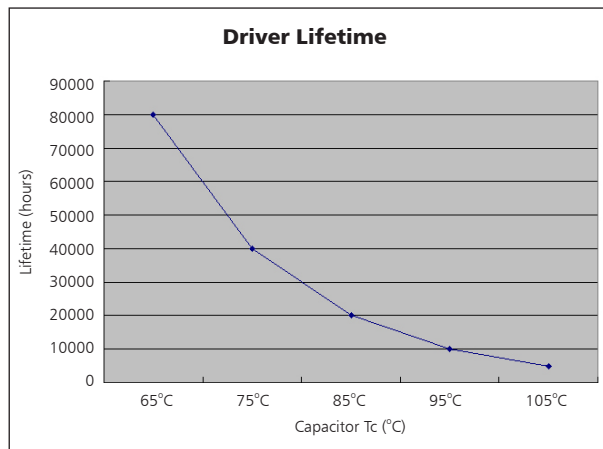
# Photometric Diagram



## Polar Diagram Comparison

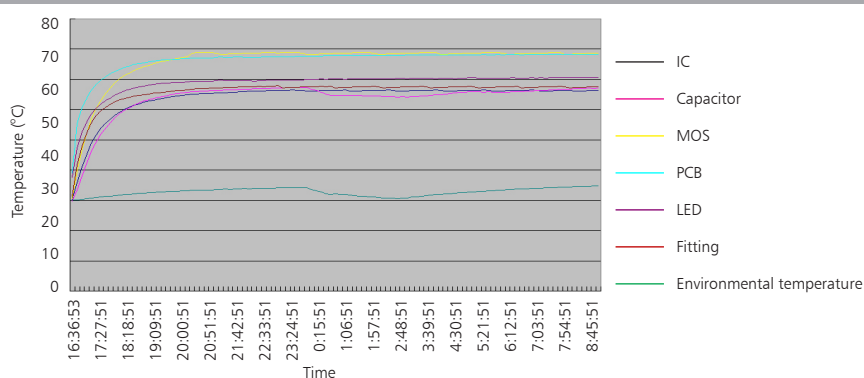


## Driver lifetime & LED light decay rate



## Temperature

- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C

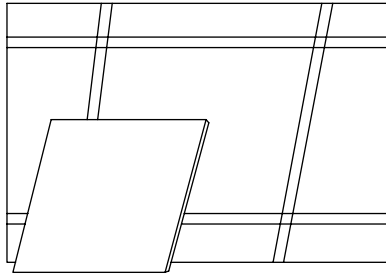


The driver lifespan is based on capacitor working temperature.

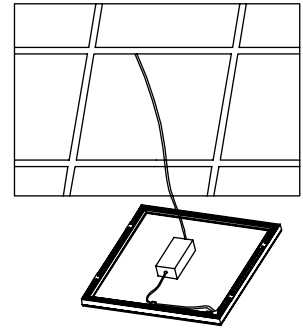
# Installation

## 1. Recessed into ceiling

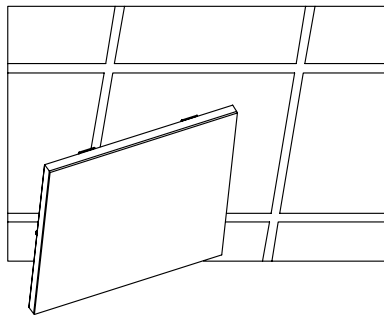
1. Remove ceiling plaster slab.



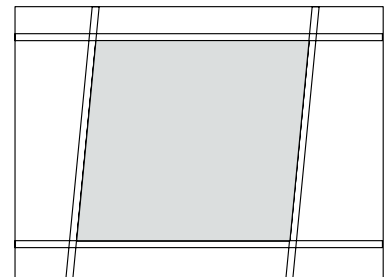
2. Connect power supply.



3. Fix the panel light into right place.

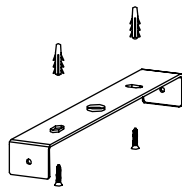


4. Stabilize the panel.

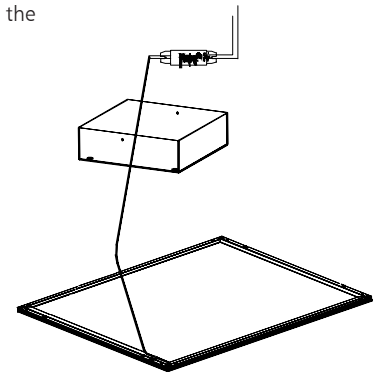


## 2. Suspending

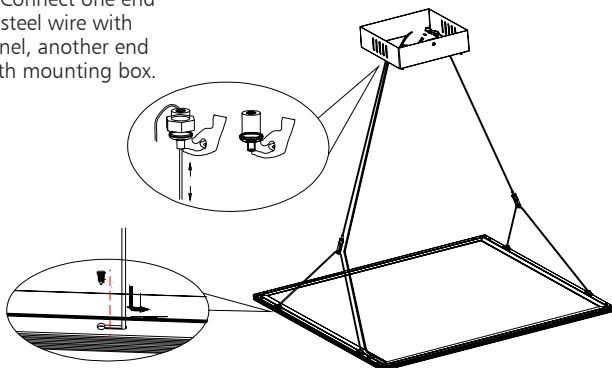
1. Fastening the bracket on the ceiling with plastic anchor and screw.



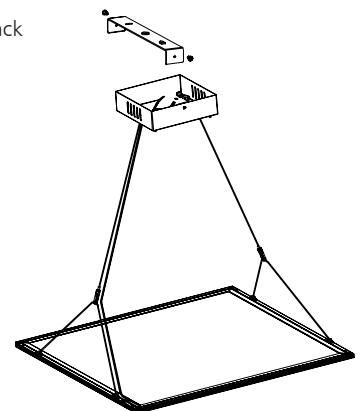
2. Put the DC line through the mounting box and connect the power supply.



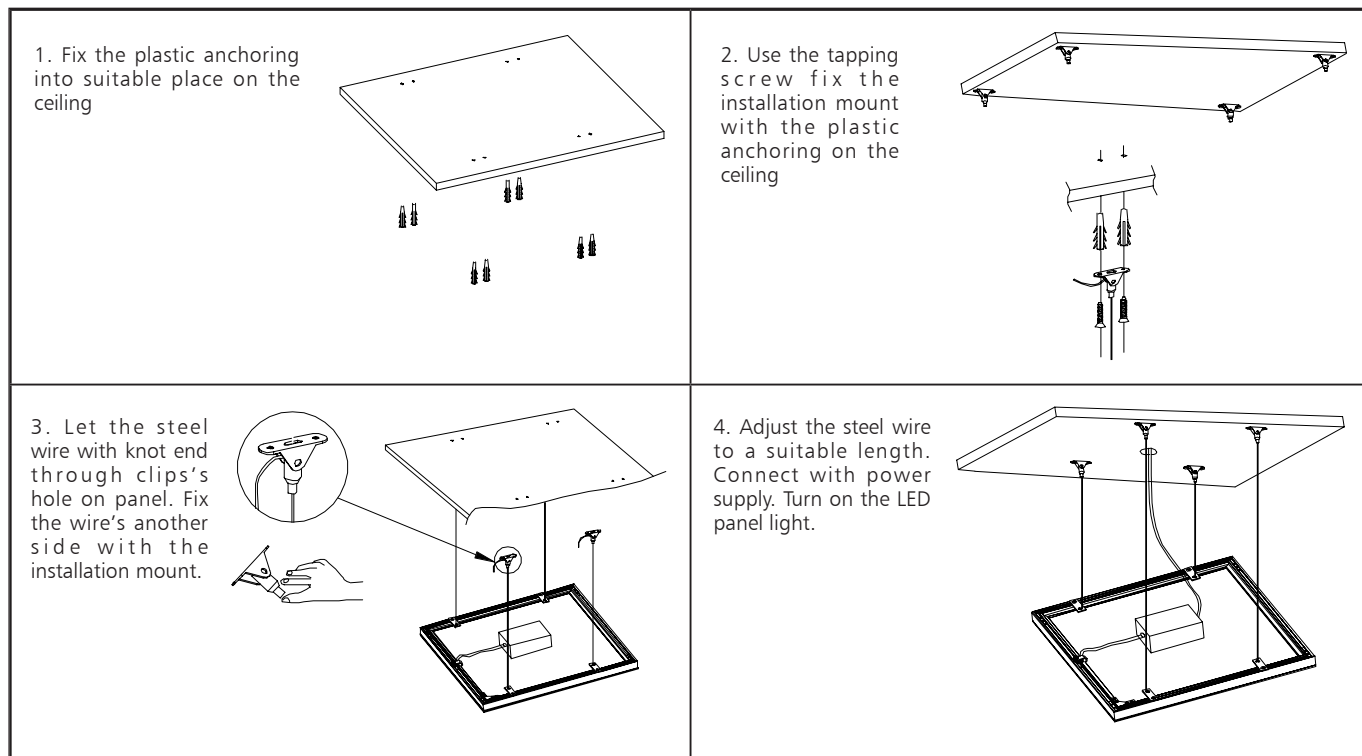
3. Connect one end of steel wire with panel, another end with mounting box.



4. Hang the mounting box back to the bracket.



### 3. Suspending



### Packaging Information

|        | SIZE(CM)   | N.W/pc<br>(KGS) | G.W.(KGS) | Q'TY(PCS) |
|--------|------------|-----------------|-----------|-----------|
| Carton | 66.5*21*73 | 5.1             | 24.5      | 4         |

|                        | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 250  | 1000      | 28          |
| 40" standard container | 500  | 2000      | 56          |

