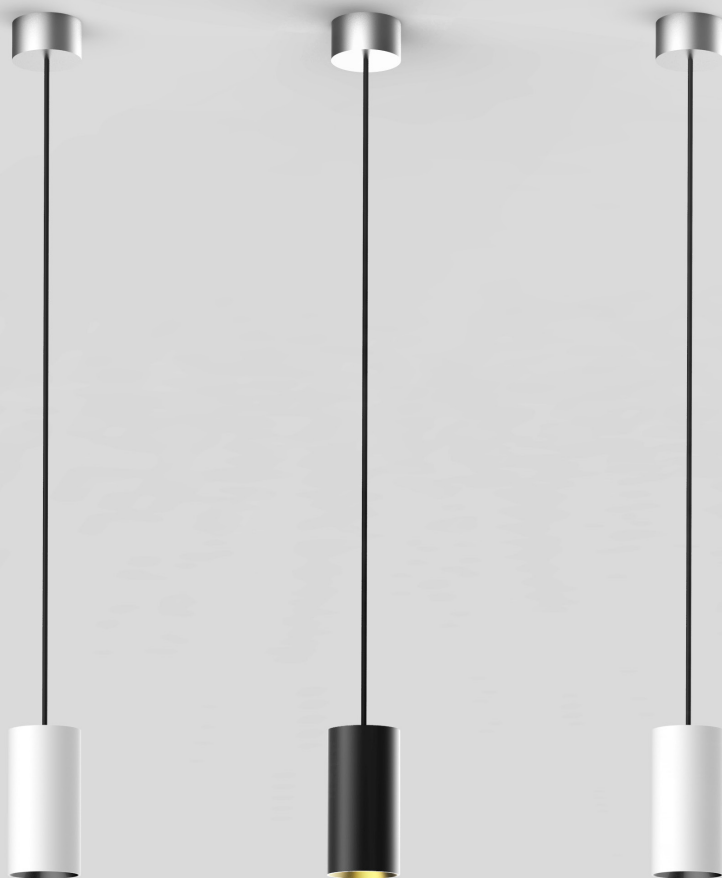




UPSHINE®



# Technical Application Guide for UP-SHINE LED Cylinder

UP-PD02A-10W

# Introduction



PD02 whole lamp adopts straightforward design with stylish appearance, easy to install, simple and generous, paying more attention to leisure and comfort. It gives space a clear and lively feelings. Different color of surface ring is optional, which could create diversified light atmosphere according to different environment.

The lamp adopts high quality reflector which has good reflective rate and light output > 86%. AL6063 Aluminum radiator in sand blast oxidation treatment provides excellent heat dissipation and corrosion resistance. High lumen COB chip with CRI>80. PF>0.9, THD<20%, passed EMC test with strong anti-jamming capability. Besides, it possesses short-circuit protection and overvoltage protection function, showing high safety performance.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- 15°/24°/36° beam angle
- CCT: 2700K 3000K 4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances
- Internal Driver

## Application notes

- IP20 for indoor use only
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

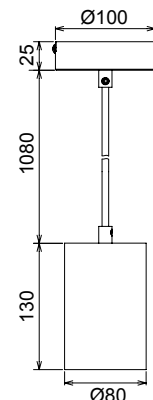
## Application Areas

Applicable for residential lighting in bedroom, living room, corridor etc, also suitable for commercial lighting in office, hotel, restaurant etc.

## Certificate



# Product Information



## Technical Specifications

| Model          | Voltage    | Power | Power Factor | Lumen (±5%) | CCT   | Beam angle  | Lifespan | CRI | Dimmable | Dimension |
|----------------|------------|-------|--------------|-------------|-------|-------------|----------|-----|----------|-----------|
| UP-PD02A-10W   | AC100-240V | 10W   | ≥0.9         | 850         | 2700K | 15°/24°/36° | 50,000h  | ≥80 | No       | Ø80*130mm |
|                |            |       |              | 860         | 3000K |             |          |     |          |           |
|                |            |       |              | 900         | 4000K |             |          |     |          |           |
|                |            |       |              | 870         | 5000K |             |          |     |          |           |
| UP-PD02A-10W-D | AC230V     | 10W   | ≥0.9         | 810         | 2700K | 15°/24°/36° | 50,000h  | ≥80 | Yes      | Ø80*130mm |
|                |            |       |              | 820         | 3000K |             |          |     |          |           |
|                |            |       |              | 855         | 4000K |             |          |     |          |           |
|                |            |       |              | 830         | 5000K |             |          |     |          |           |

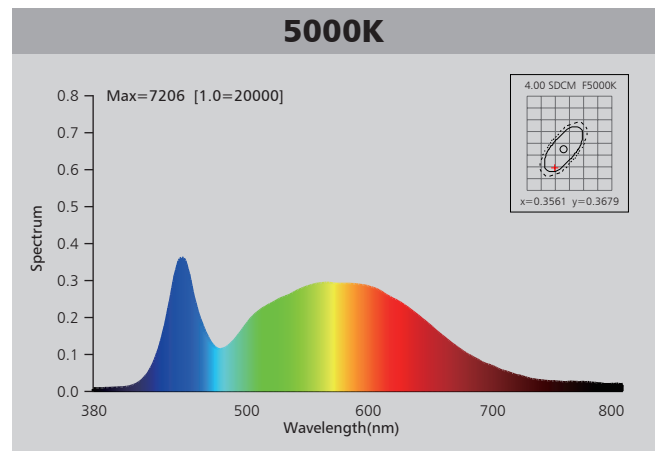
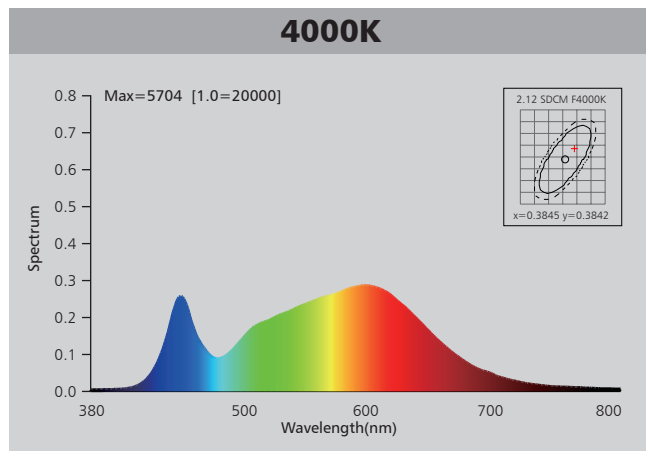
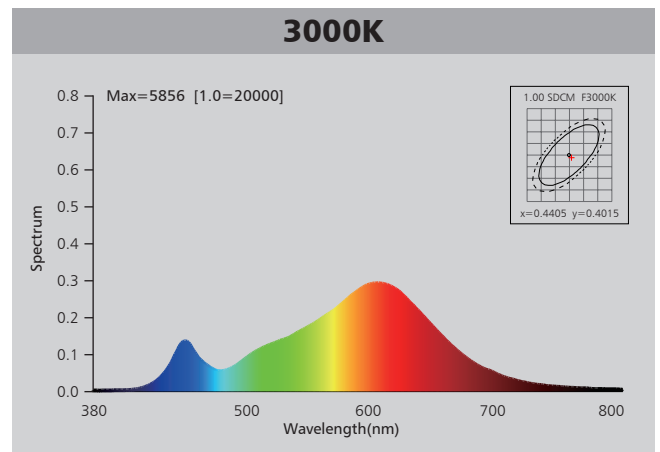
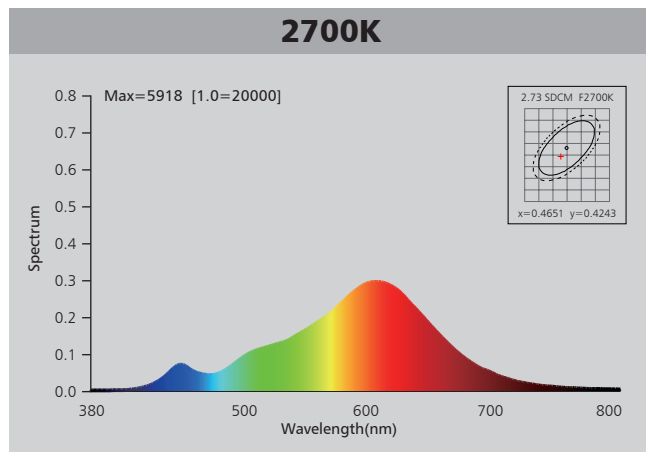
## Driver data Sheet

| Driver data                 | DIM           | Non dim    |
|-----------------------------|---------------|------------|
| Input rated Voltage         | AC230V        | AC100-240V |
| Frequency                   | 50Hz          | 50/60Hz    |
| Input Voltage               | AC220-240V    | AC85-265V  |
| Efficiency                  | ≥78%          | ≥88%       |
| Total load Wattage          | 10W±0.5W      | 10W±0.5W   |
| Power Factor                | ≥0.9          | ≥0.9       |
| Rated input current         | ≤0.05A        | ≤0.12A     |
| Full load output Voltage    | DC60-75V      | DC60-75V   |
| Rated output current        | 120mA         | 120mA      |
| Output current range        | 120mA±5%      | 120mA±5%   |
| Power tolerance             | ±5%           | ±5%        |
| Current output tolerance    | ±5%           | ±5%        |
| Dimming range               | 8%-100%       | —          |
| Dimmer                      | Triac dimmers | —          |
| Short circuit protection    | PASS          | PASS       |
| Over voltage protection     | PASS          | PASS       |
| Over temperature protection | PASS          | PASS       |
| Withstand voltage           | —             | —          |

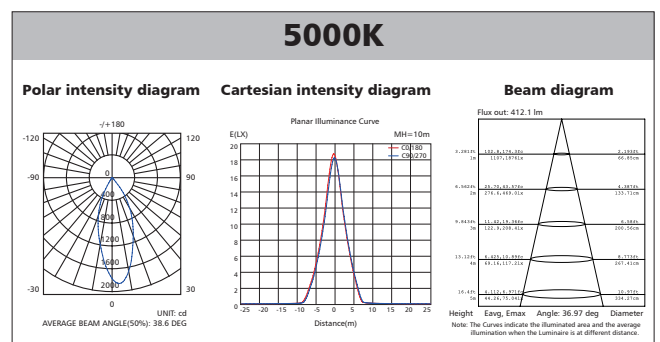
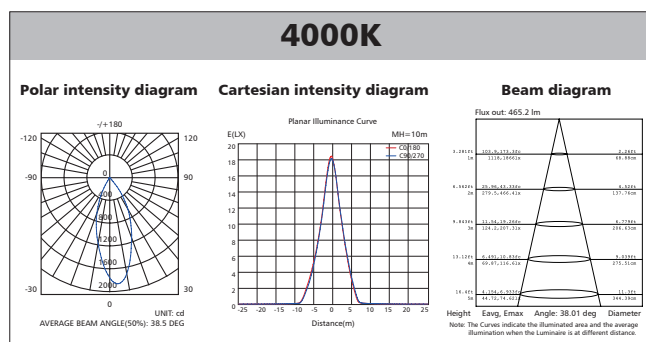
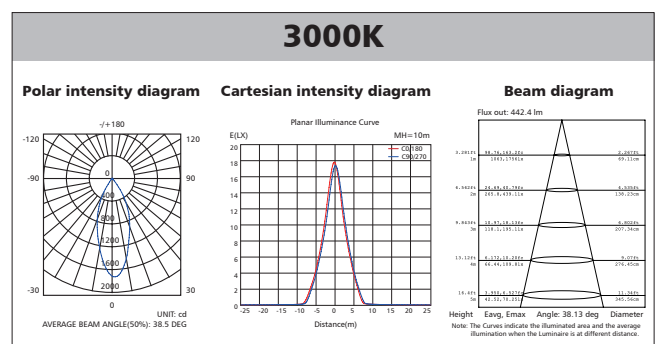
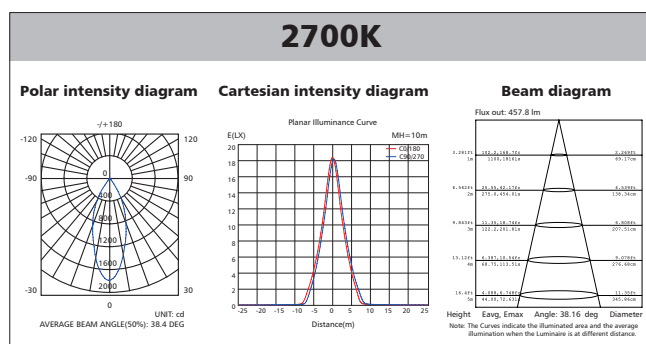
## Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 10W           | I                         | IP20               | -20°C~45°C     | 0~90%              | -20°C~65°C   |

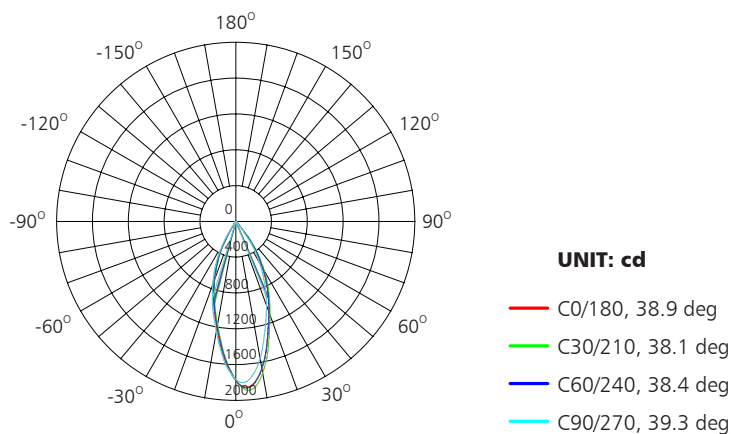
# Spectral Distribution



# Photometric Diagram



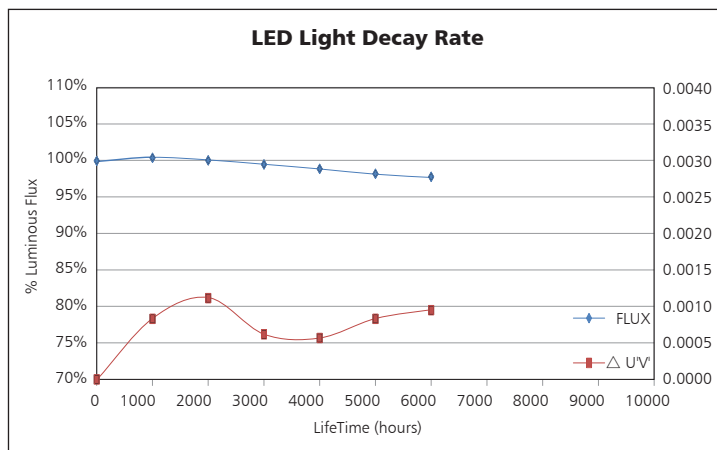
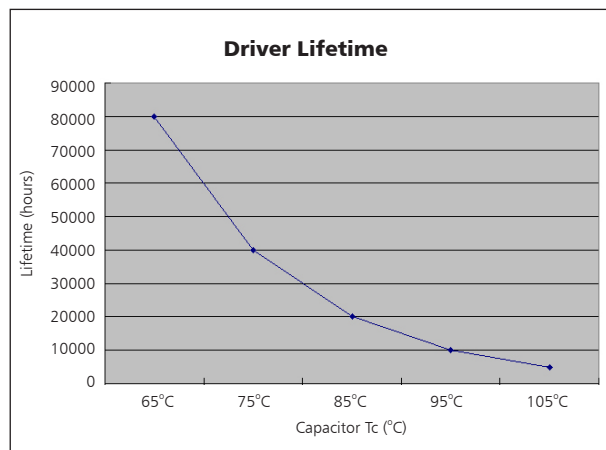
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 38.6DEG

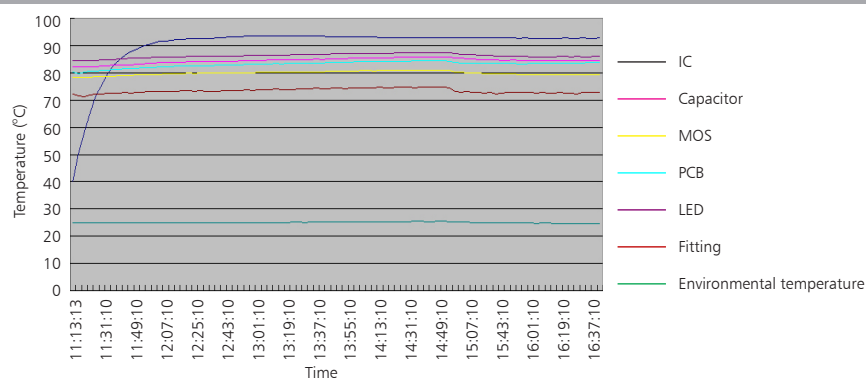


## Driver lifetime & LED light decay rate



## Temperature

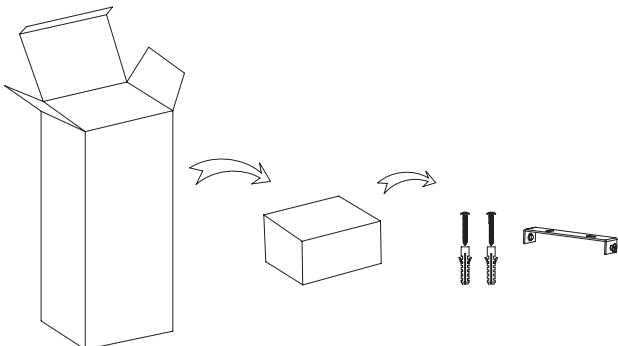
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

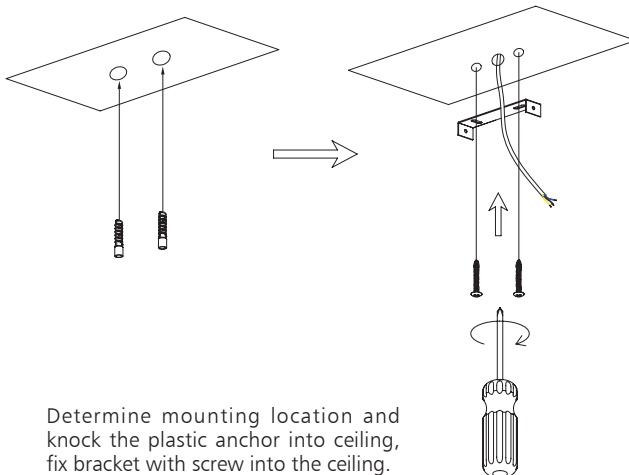


## Installation



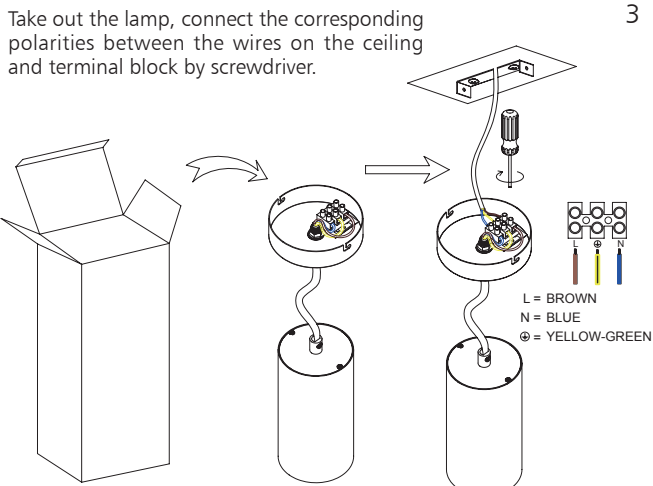
Take out the accessories from accessory box.

1



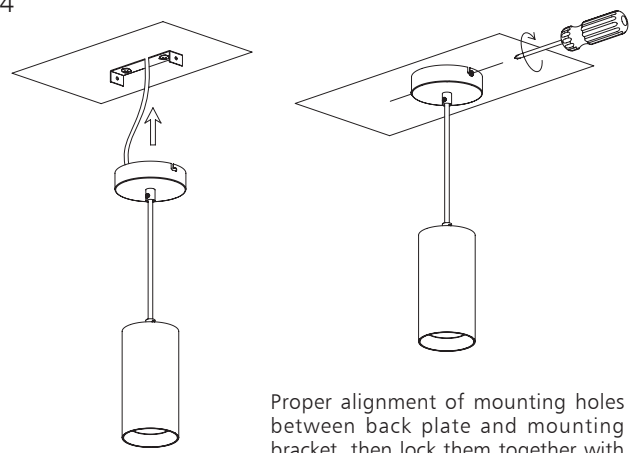
Determine mounting location and knock the plastic anchor into ceiling, fix bracket with screw into the ceiling.

2



Take out the lamp, connect the corresponding polarities between the wires on the ceiling and terminal block by screwdriver.

3



Proper alignment of mounting holes between back plate and mounting bracket, then lock them together with screw

4

**Warning:** Do not adjust the length of the wire.

## Packaging Information

|        | SIZE(CM)   | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCs) |
|--------|------------|--------------|-----------|-----------|
| Carton | 48*36*41.5 | 0.75         | 18        | 24        |

|                        | CTNS | Q'TY(PCs) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 410  | 10250     | 28          |
| 40" standard container | 820  | 20500     | 56          |

