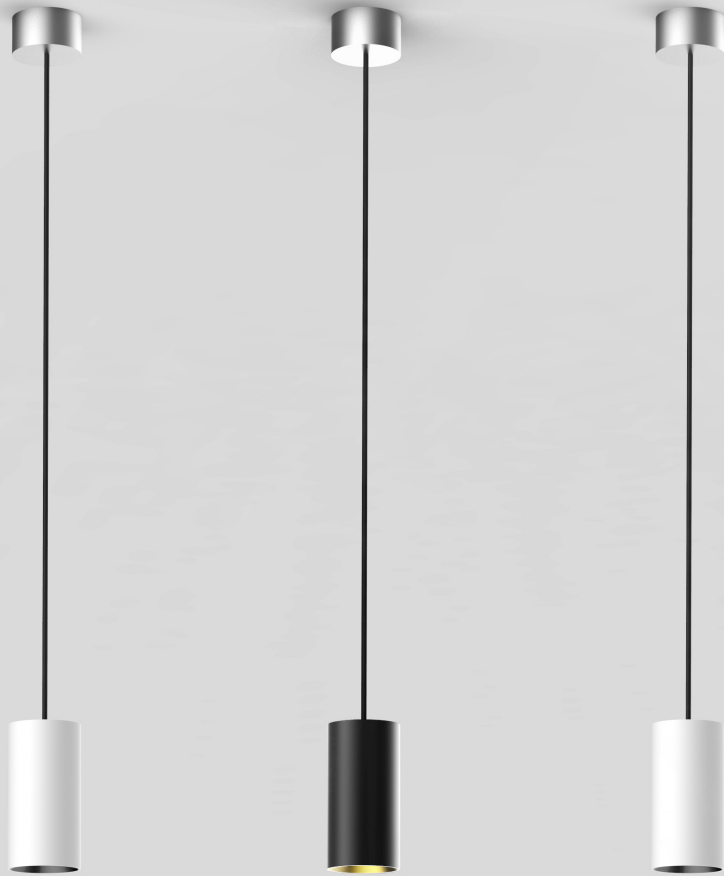


**LEDISON**  
LIGHTING



# Technical Application Guide for Ledison LED Cylinder

UP-PD02A-25W

# Introduction



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
- 10°/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

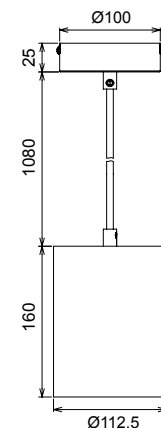
Applicable for residential lighting in bedroom, living room, corridor etc, also suitable for commercial lighting in office, hotel, restaurant etc.

## Certificate

CE RoHS



# Product Information



## Technical Specifications

| Model          | Voltage    | Power | Power Factor | Lumen (±5%) | CCT   | Beam angle  | Lifespan | CRI | Dimmable | Dimension    |
|----------------|------------|-------|--------------|-------------|-------|-------------|----------|-----|----------|--------------|
| UP-PD02A-25W   | AC100-240V | 25W   | ≥0.9         | 2265        | 2700K | 10°/24°/36° | 50,000h  | ≥80 | No       | Ø112.5*160mm |
|                |            |       |              | 2395        | 3000K |             |          |     |          |              |
|                |            |       |              | 2765        | 4000K |             |          |     |          |              |
|                |            |       |              | 2765        | 5000K |             |          |     |          |              |
| UP-PD02A-25W-D | AC230V     | 25W   | ≥0.9         | 2150        | 2700K | 10°/24°/36° | 50,000h  | ≥80 | Yes      | Ø112.5*160mm |
|                |            |       |              | 2275        | 3000K |             |          |     |          |              |
|                |            |       |              | 2625        | 4000K |             |          |     |          |              |
|                |            |       |              | 2625        | 5000K |             |          |     |          |              |

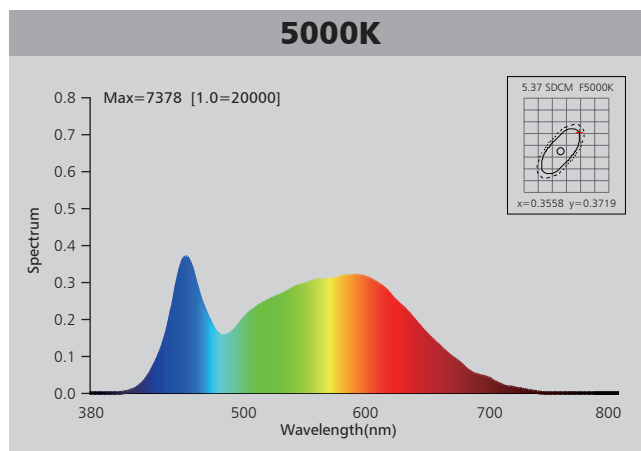
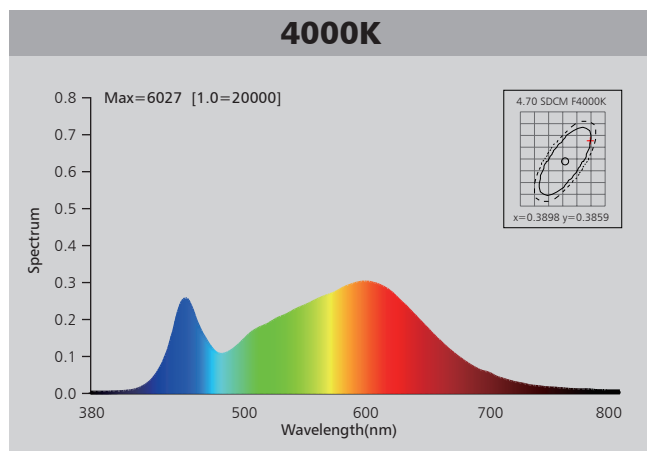
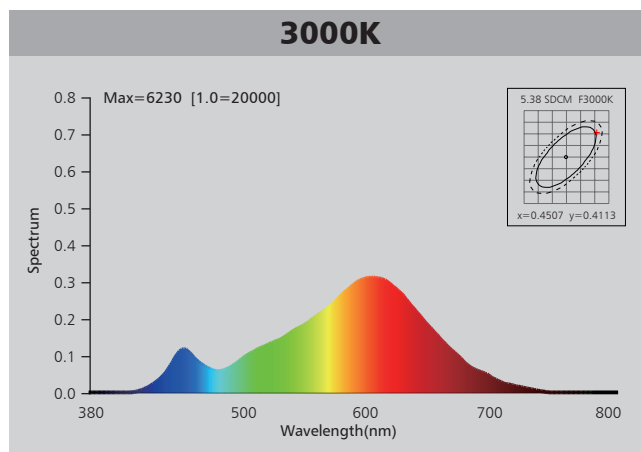
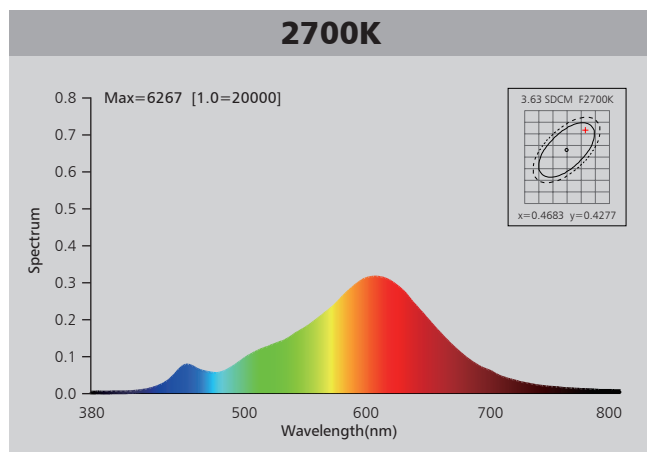
## Driver data Sheet

| Driver data                 | DIM           | Non dim    |
|-----------------------------|---------------|------------|
| Input rated Voltage         | AC230V        | AC100-240V |
| Frequency                   | 50Hz          | 50/60Hz    |
| Input Voltage               | AC220-240V    | AC85-265V  |
| Efficiency                  | ≥85%          | ≥90%       |
| Total load Wattage          | 25W±5%        | 25W±5%     |
| Power Factor                | ≥0.9          | ≥0.9       |
| Rated input current         | ≤0.14A        | ≤0.28A     |
| Full load output Voltage    | DC60-75V      | DC60-75V   |
| Rated output current        | 300mA         | 310mA      |
| Output current range        | 300mA±5%      | 310mA±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       |
| THD                         | ≤20%          | ≤20%       |
| Withstand voltage           | —             | —          |

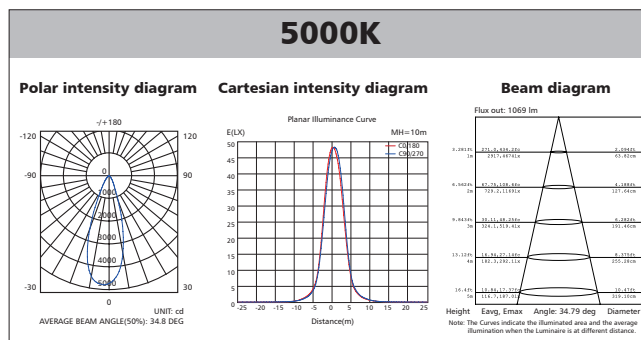
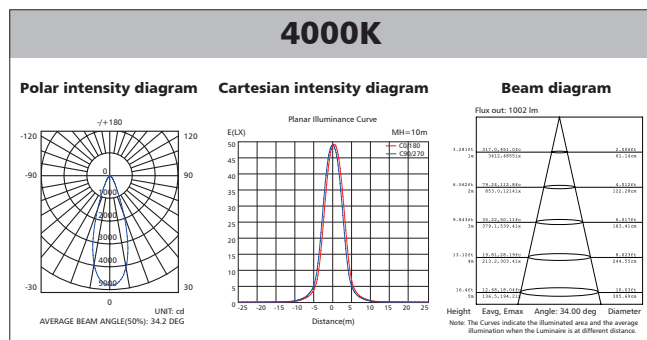
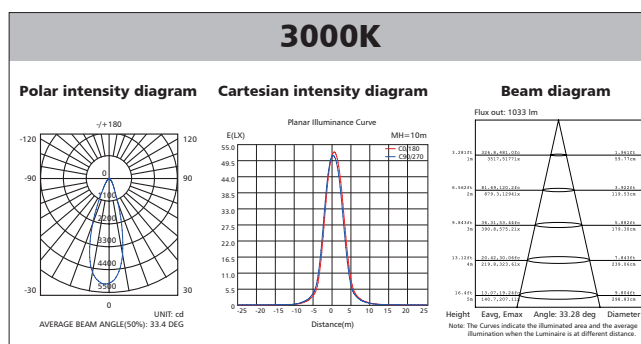
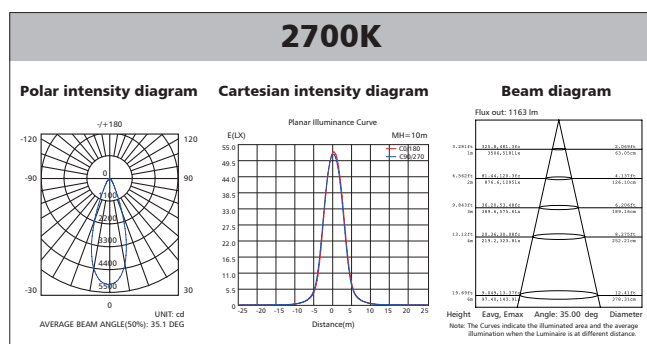
## Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 25W           | I                         | IP20               | -20°C~45°C     | 0~90%              | -20°C~65°C   |

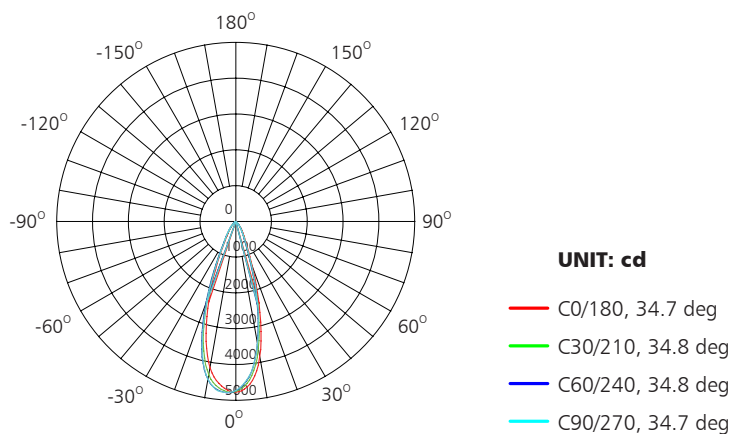
# Spectral Distribution



# Photometric Diagram



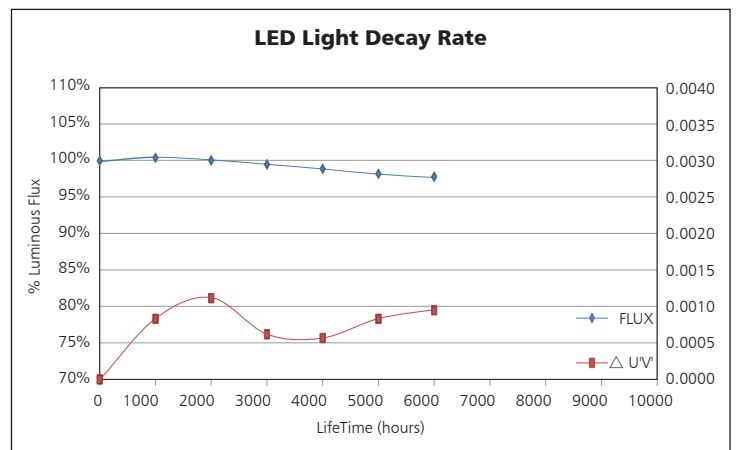
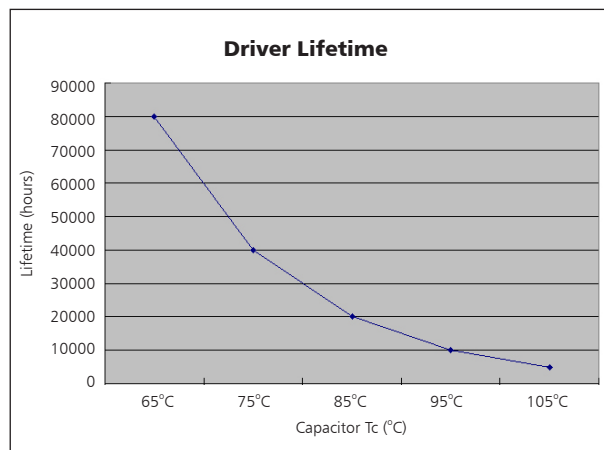
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 34.8DEG

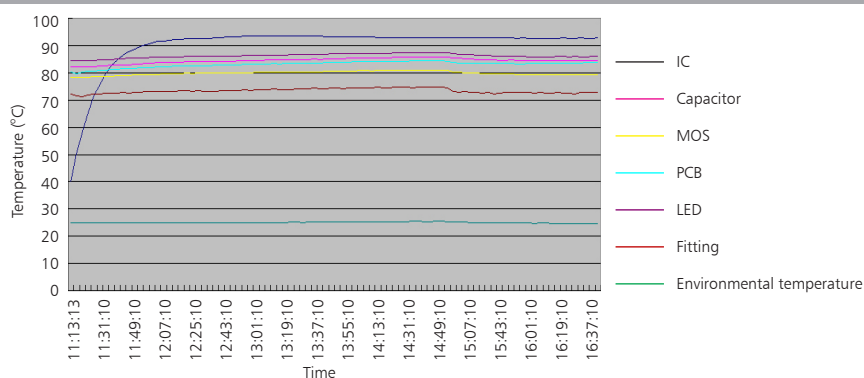


## Driver lifetime & LED light decay rate



## Temperature

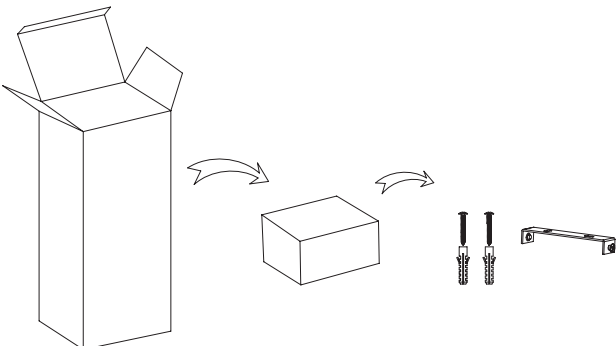
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

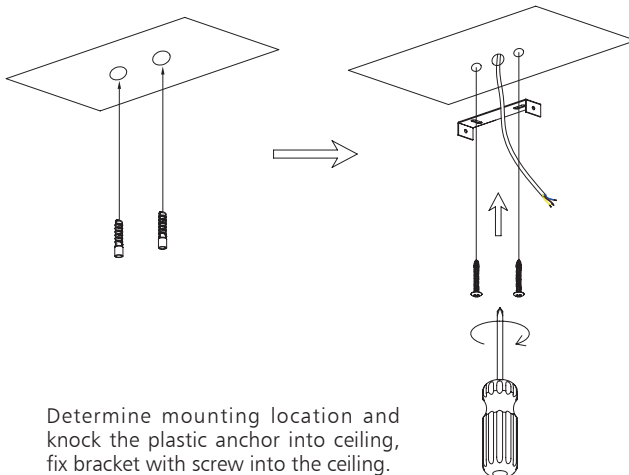


## Installation



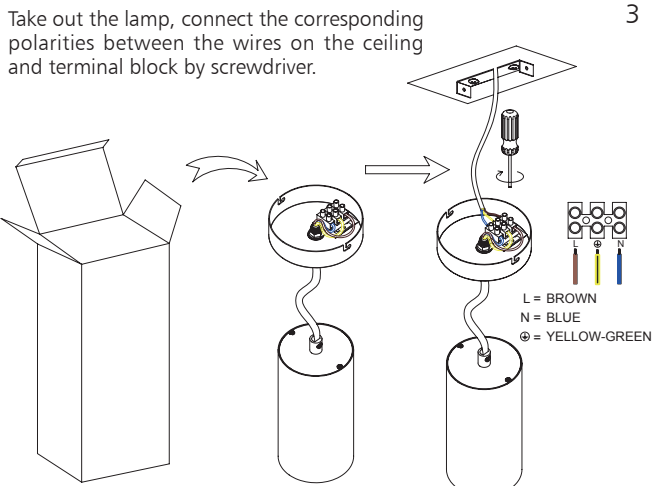
Take out the accessories from accessory box.

1



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

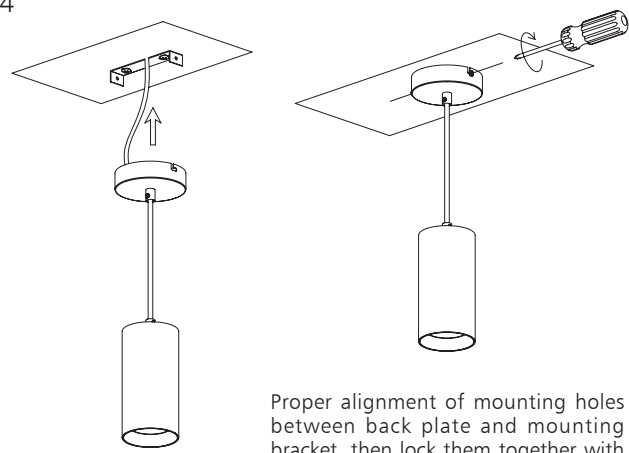
2



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

3

L = BROWN  
 N = BLUE  
 PE = YELLOW-GREEN



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

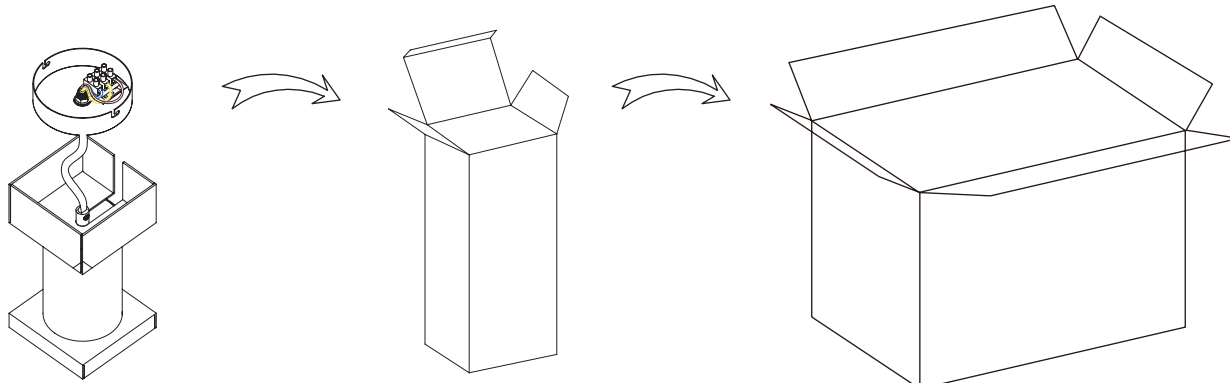
4

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

## Packaging Information

|        | SIZE(CM) | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCs) |
|--------|----------|--------------|-----------|-----------|
| Carton | 50*38*47 | 0.95         | 23        | 24        |

|                        | CTNS | Q'TY(PCs) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 310  | 7440      | 28          |
| 40" standard container | 620  | 14880     | 56          |



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