



UPSHINE®



# Technical Application Guide for UP-SHINE LED Downlight

UP-DL61-7W

# Introduction



Up-shine downlight DL61 is unique designed for European and Oceania market. Aluminum profile provides excellent thermal dissipation. Fire-rated PC diffuser adopts even light output. With IP54 waterproof structural design, it is an ideal replacement for damp locations. Isolated driver solution both in dimmable and non-dimmable version, achieves great dimming compatibility with worldwide brand dimmers.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Dimmable when using triac dimmer
- 100° wide beam angle
- Ø70mm cutout
- CCT: 3000K 4000K  
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

## Application notes

- IP54 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

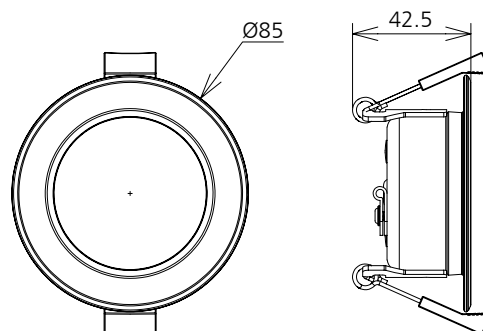
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

## Certificate

CE RoHS SAA



# Product Information



## Technical Specifications

| Model        | Voltage | Power | Power Factor | Lumen (±5%) | Beam angle | CCT   | Lifespan | CRI | Dimmable | Dimension              |
|--------------|---------|-------|--------------|-------------|------------|-------|----------|-----|----------|------------------------|
| UP-DL61-7W   | AC230V  | 7W    | ≥0.85        | 460         | 100°       | 3000K | 40000h   | ≥80 | No       | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W   | AC230V  | 7W    | ≥0.85        | 500         | 100°       | 4000K | 40000h   | ≥80 | No       | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W   | AC230V  | 7W    | ≥0.85        | 510         | 100°       | 5000K | 40000h   | ≥80 | No       | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W   | AC230V  | 7W    | ≥0.85        | 500         | 100°       | 5700K | 40000h   | ≥80 | No       | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W-D | AC230V  | 7W    | ≥0.9         | 430         | 100°       | 3000K | 40000h   | ≥80 | Yes      | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W-D | AC230V  | 7W    | ≥0.9         | 460         | 100°       | 4000K | 40000h   | ≥80 | Yes      | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W-D | AC230V  | 7W    | ≥0.9         | 470         | 100°       | 5000K | 40000h   | ≥80 | Yes      | Ø85*42.5mm cutout 70mm |
| UP-DL61-7W-D | AC230V  | 7W    | ≥0.9         | 450         | 100°       | 5700K | 40000h   | ≥80 | Yes      | Ø85*42.5mm cutout 70mm |

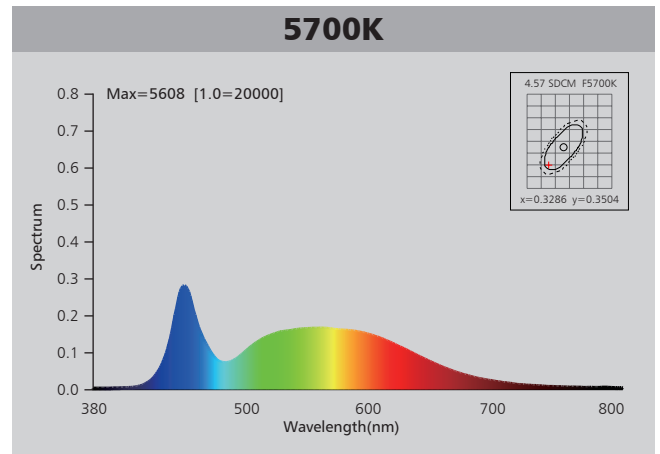
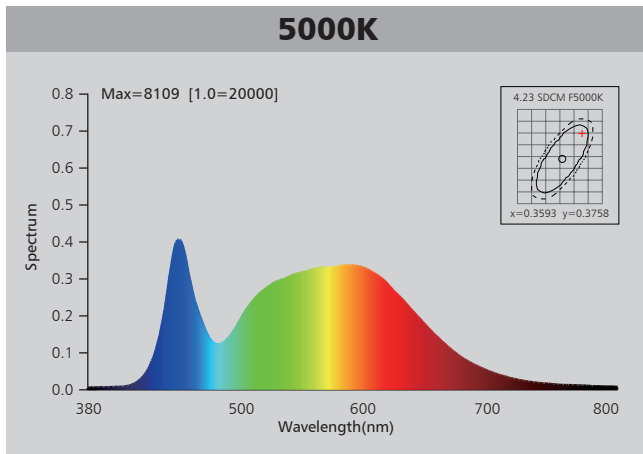
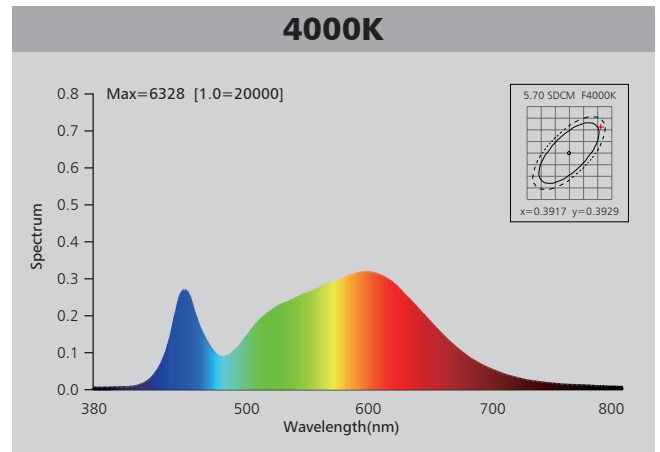
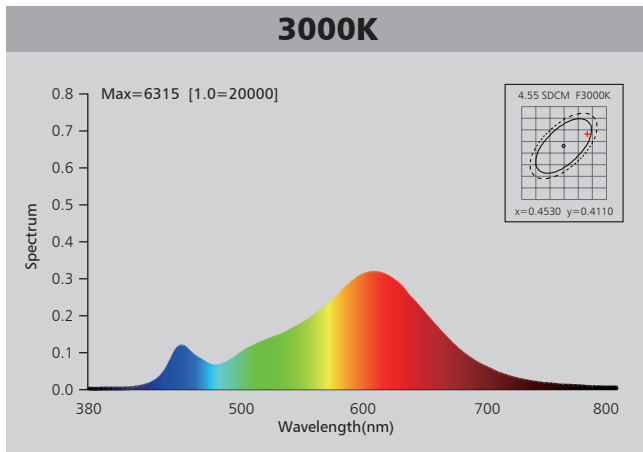
## Driver data Sheet

| Driver data                 | DIM           | Non-dim    |
|-----------------------------|---------------|------------|
| Input rated Voltage         | AC230V        | AC230V     |
| Frequency                   | 50HZ          | 50HZ       |
| Input Voltage               | AC200-240V    | AC200-240V |
| Efficiency                  | ≥72%          | ≥82%       |
| Total load Wattage          | 7W±0.5W       | 7W±0.5W    |
| Power Factor                | ≥0.9          | ≥0.85      |
| Rated input current         | ≤0.04A        | ≤0.04A     |
| Full load output Voltage    | DC20-23V      | DC20-23V   |
| Rated output current        | 230mA         | 260mA      |
| Output current range        | 250mA±5%      | 260mA±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           | AC3750V       | AC3750V    |

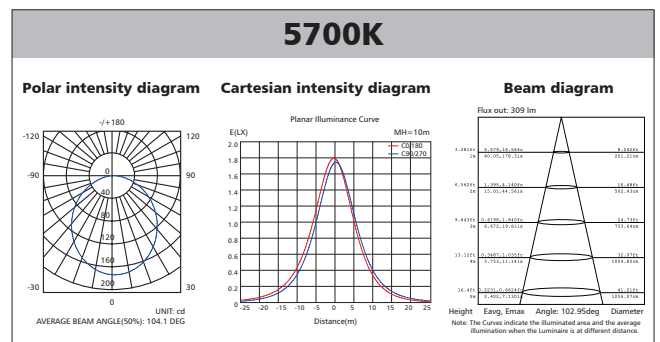
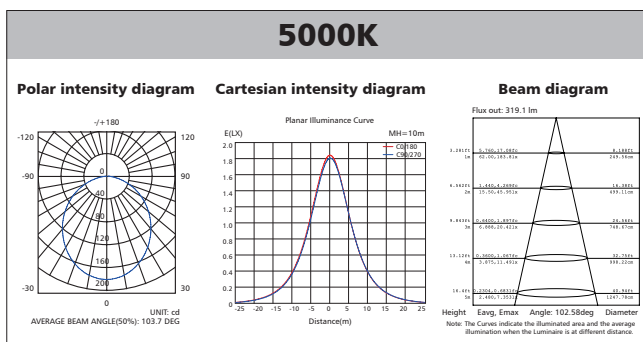
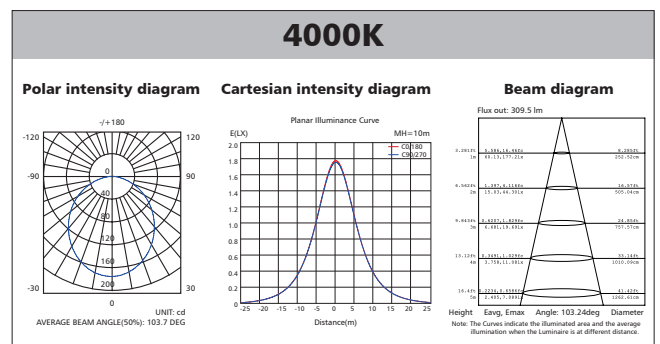
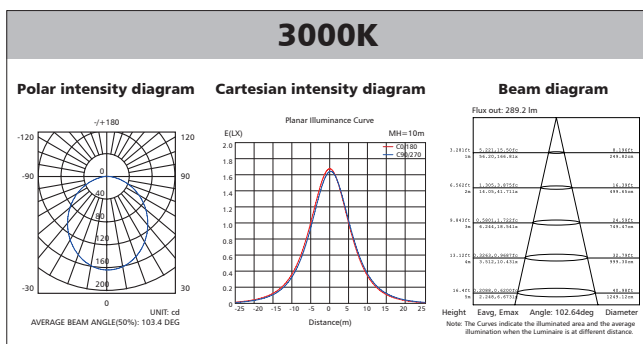
## Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 7W            | II                        | IP54               | -20°C~45°C     | 0~90%              | -20°C~65°C   |

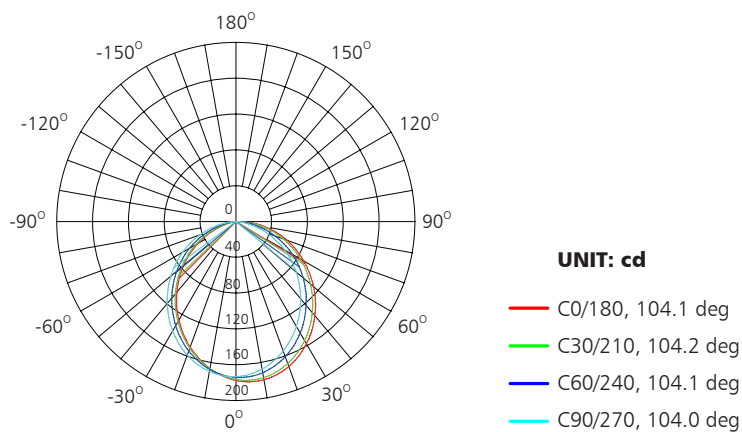
# Spectral Distribution



# Photometric Diagram



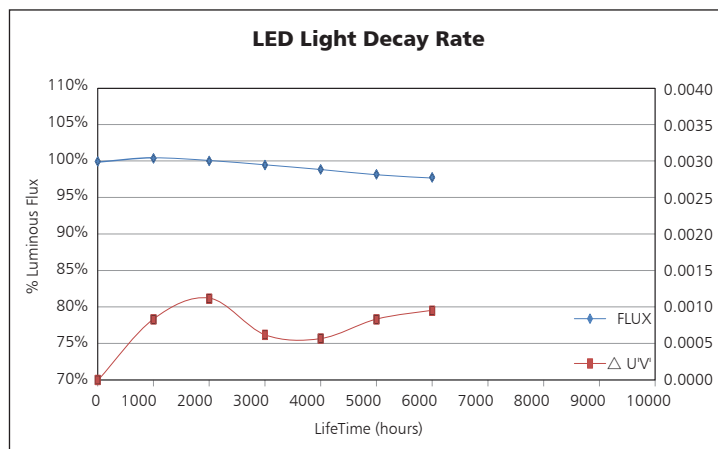
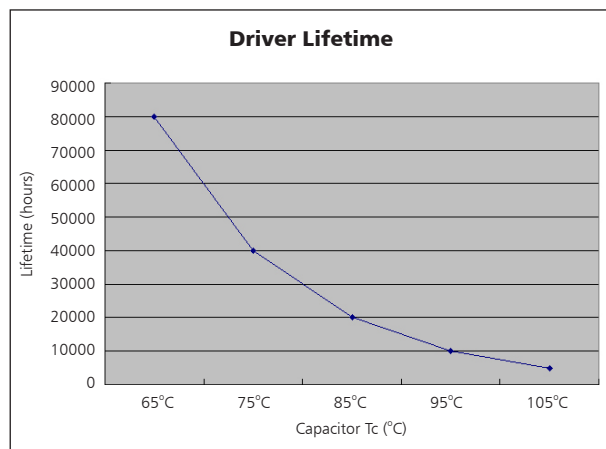
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 104.1DEG

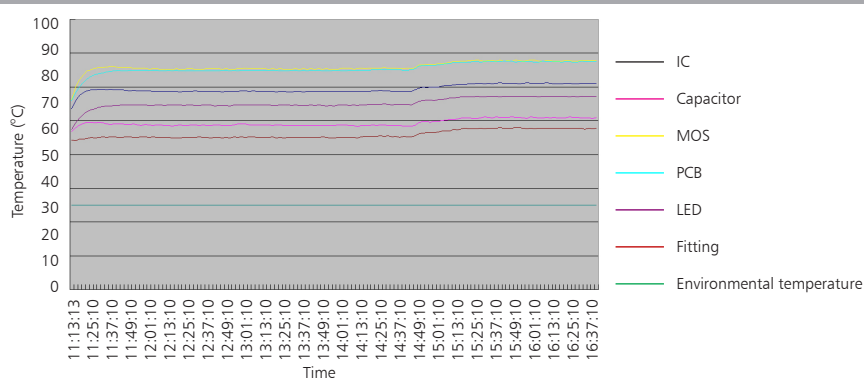


## Driver lifetime & LED light decay rate



## Temperature

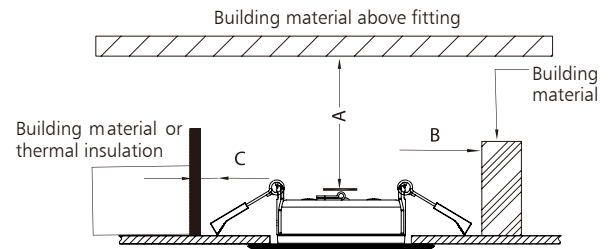
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

# Installation

| Install requirements            |      |
|---------------------------------|------|
| A-gap above the fitting         | 25mm |
| B-gap to the building material  | 25mm |
| C-gap to the thermal insulation | 25mm |



|                                                                                                |                                                           |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <p><b>Ceiling Opening</b></p> <p>1</p>                                                         | <p><b>Connect Power supply</b></p> <p>2</p>               |
| <p><b>A. Hold back spring clips</b></p> <p><b>B. Push downlight into position</b></p> <p>3</p> | <p><b>Spring Clips</b></p> <p><b>Ceiling</b></p> <p>4</p> |

## Packaging Information

|        | SIZE(CM)     | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCS) |
|--------|--------------|--------------|-----------|-----------|
| Carton | 52.5*52.5*23 | 0.11         | 7.5       | 50        |

|                        | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 434  | 21700     | 28          |
| 40" standard container | 868  | 43400     | 56          |

