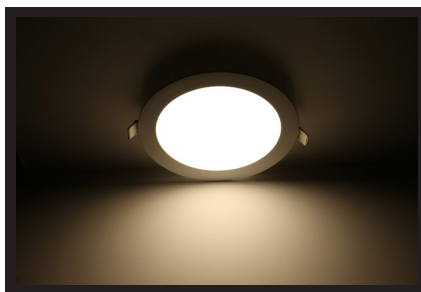
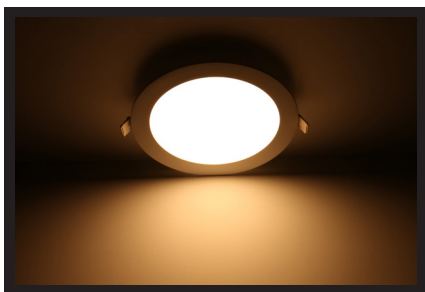


# Technical Application Guide for LED Down Light Flat

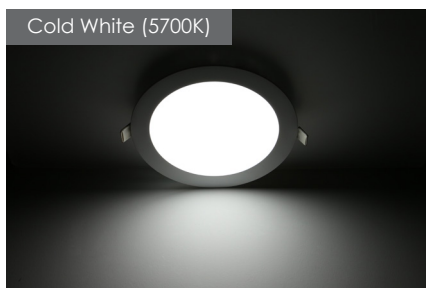
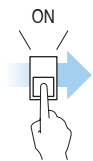
136-184



# Introduction



## Slide Switch Function



- Up to 80% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Triac dim
- 120° wide beam angle
- 230mm cutout
- CCT: 3000K 4000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

## 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

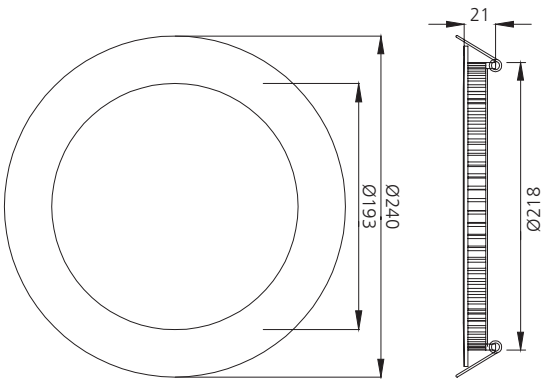
## Application Areas

Widely used for various commercial lighting and residential lighting applications, such as offices, 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              |
|---------|---------|-------|--------------|--------------------|------------|-------|----------|-----|----------|------------------------|
| 136-084 | AC230V  | 15W   | ≥0.9         | 950<br>990<br>1130 | 120°       | 3000K | 40000h   | ≥80 |          | Ø240*21mm cutout 230mm |
|         |         |       |              |                    |            | 4000K |          |     | Yes      |                        |
|         |         |       |              |                    |            | 5700K |          |     |          |                        |

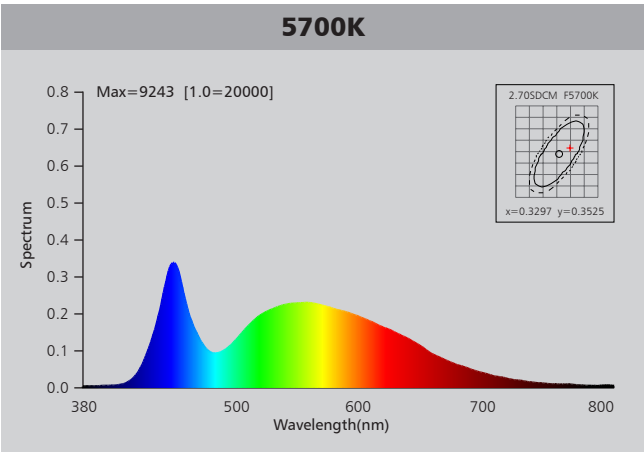
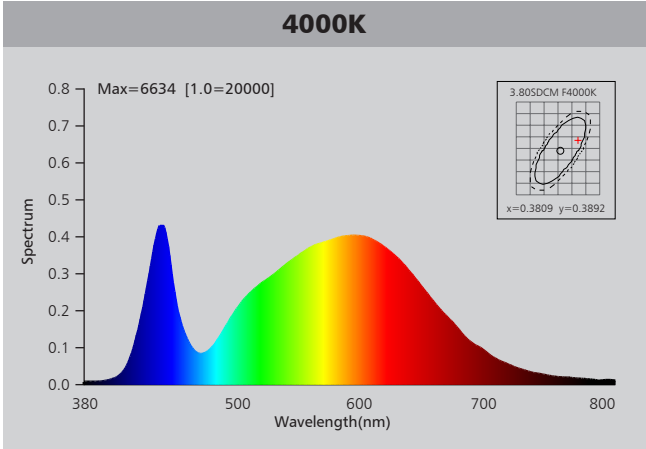
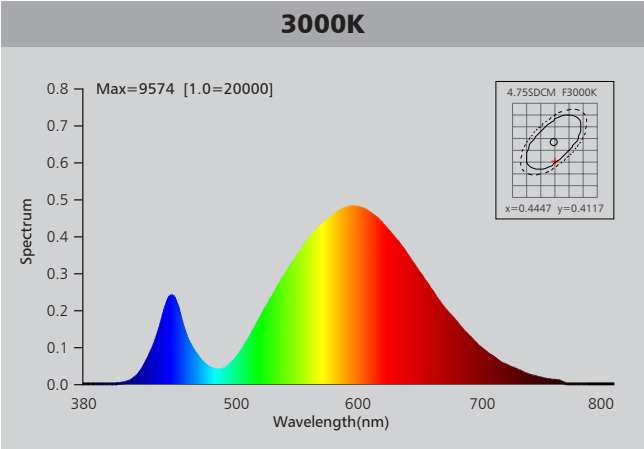
## Driver data Sheet

| Driver data                 | DIM           |
|-----------------------------|---------------|
| Input rated Voltage         | AC230V        |
| Frequency                   | 50HZ          |
| Input Voltage               | AC200-240V    |
| Efficiency                  | ≥78%          |
| Total load Wattage          | 15W±1W        |
| Power Factor                | ≥0.9          |
| Rated input current         | ≤0.08A        |
| Full load output Voltage    | DC33-39V      |
| Rated output current        | 330mA         |
| Output current range        | 330mA±5%      |
| Power tolerance             | ±5%           |
| Current output tolerance    | ±5%           |
| Dimming range               | 8%-100%       |
| Dimmer                      | Triac dimmers |
| Short circuit protection    | PASS          |
| Over voltage protection     | PASS          |
| Over temperature protection | PASS          |
| Withstand voltage           | AC3750V       |

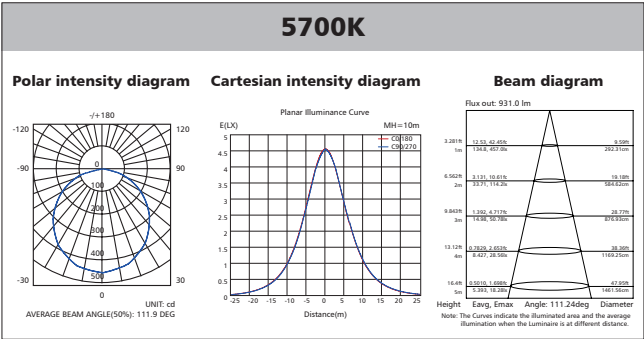
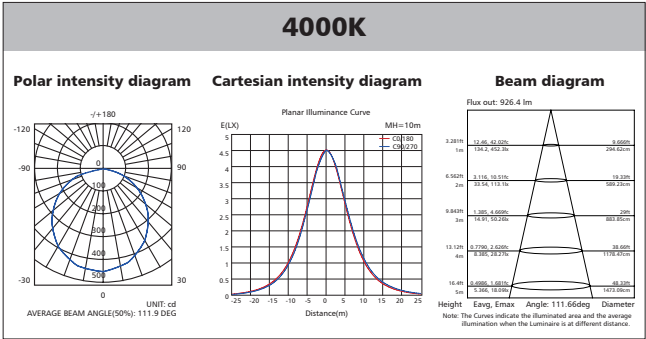
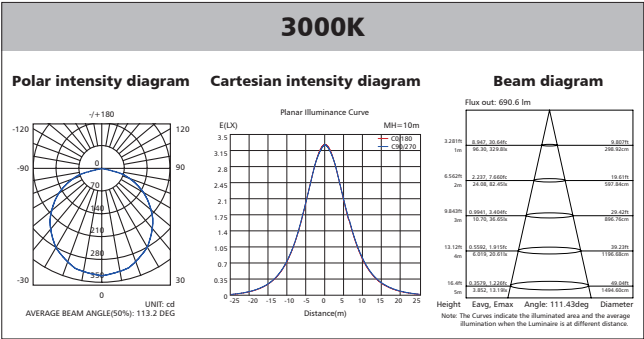
## Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 15W           | II                        | IP20               | -20°C~45°C     | 0~90%              | -20°C~65°C   |

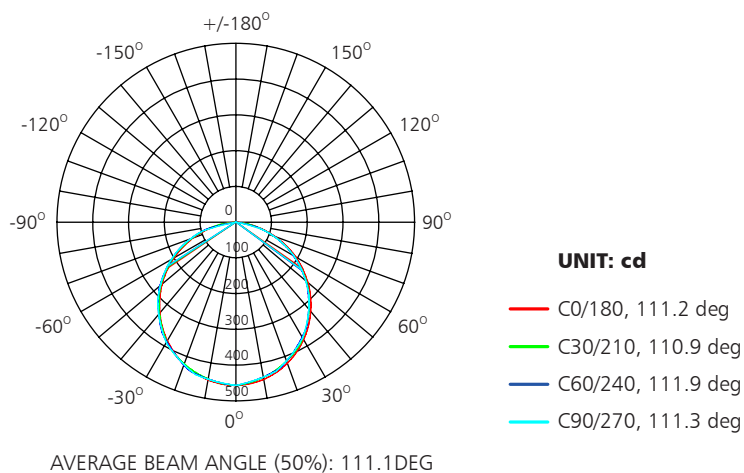
Spectral Distribution



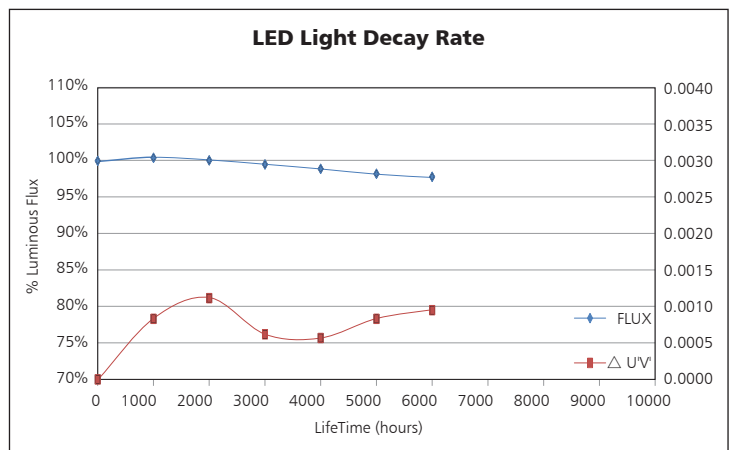
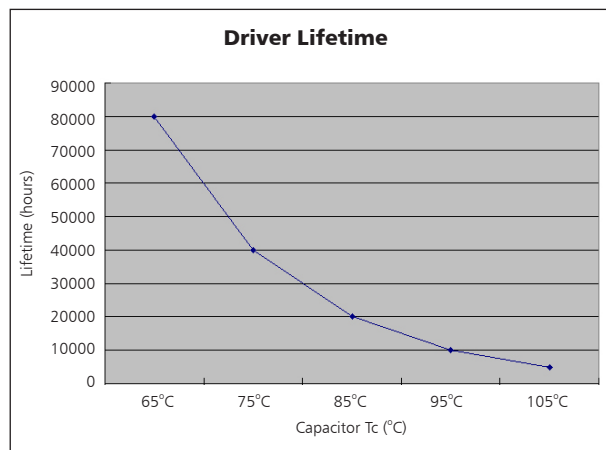
Photometric Diagram



## Polar Diagram Comparison

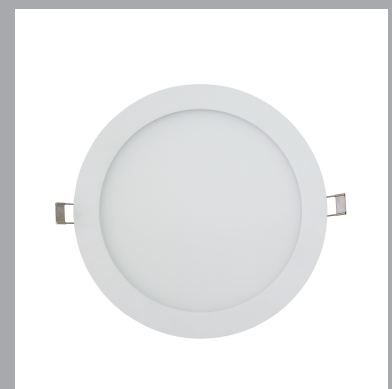
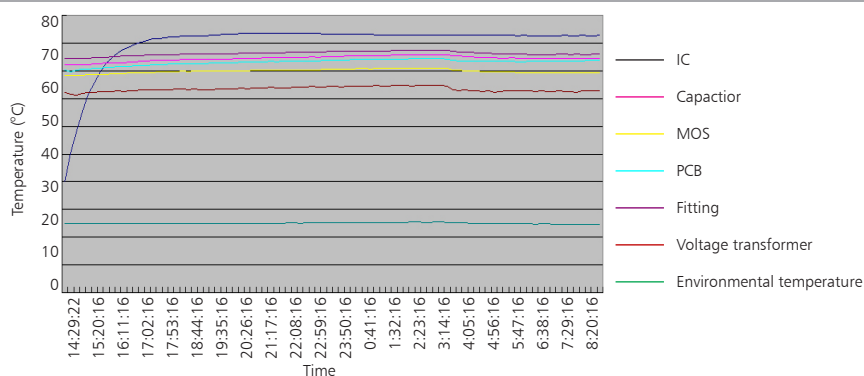


## Driver lifetime & LED light decay rate



## Temperature

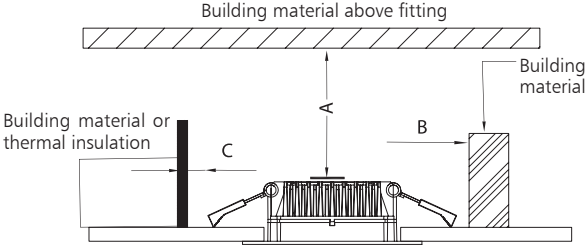
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

# Installation

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



**Ceiling opening**

1

**Connect Power supply**

2

**A. Hold back spring clips**  
**B. Push downlight into position**

3

**Finish**

4

# Packaging Information

|        | SIZE(CM)   | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCS) |
|--------|------------|--------------|-----------|-----------|
| Carton | 52.5*30*27 | 0.75         | 9.7       | 10        |

