



Up-shine<sup>®</sup> Lighting



# Technical Application Guide for UP-SHINE LED Downlight

UP-DL110-4-18W

# Introduction



Up-shine IP65 waterproof LED Down light DL110 model adopts high lumen SMD LED, which makes light effect reach 90-100lm/w, PMMA diffuser with even light output. Lamp body IP65 rating designed, can be widely used in indoor and outdoor applications. White, silver, chrome surface are available for customer's preference.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- 90° wide beam angle
- Ø120-130mm cutout
- CCT: 3000K 4000K  
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

## Application notes

- IP65 waterproof for indoor and outdoor 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

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.

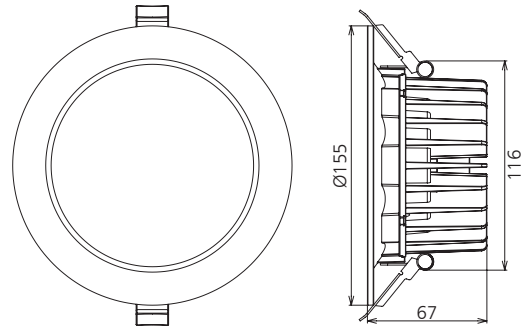
## Certificate



**RoHS**



# Product Information



## Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL110-4-18W	AC230V	18W	≥0.9	1650	90°	3000K	40000h	≥80	No	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W	AC230V	18W	≥0.9	1760	90°	4000K	40000h	≥80	No	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W	AC230V	18W	≥0.9	1800	90°	5000K	40000h	≥80	No	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W	AC230V	18W	≥0.9	1830	90°	5700K	40000h	≥80	No	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W-D	AC230V	18W	≥0.9	1560	90°	3000K	40000h	≥80	Yes	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W-D	AC230V	18W	≥0.9	1710	90°	4000K	40000h	≥80	Yes	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W-D	AC230V	18W	≥0.9	1720	90°	5000K	40000h	≥80	Yes	Ø155*67mm cutout 120-130mm
UP-DL110-4-18W-D	AC230V	18W	≥0.9	1760	90°	5700K	40000h	≥80	Yes	Ø155*67mm cutout 120-130mm

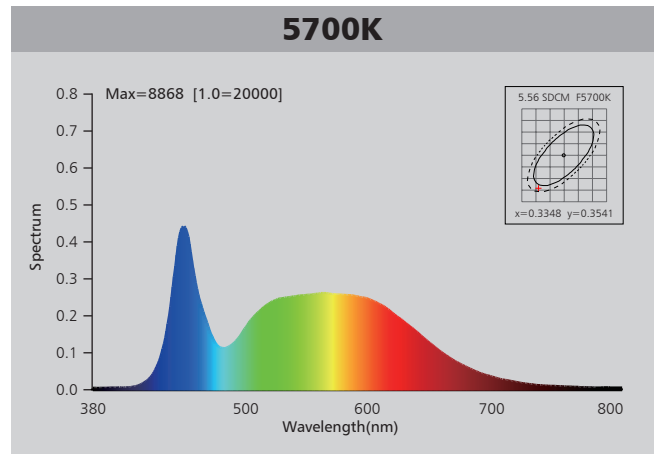
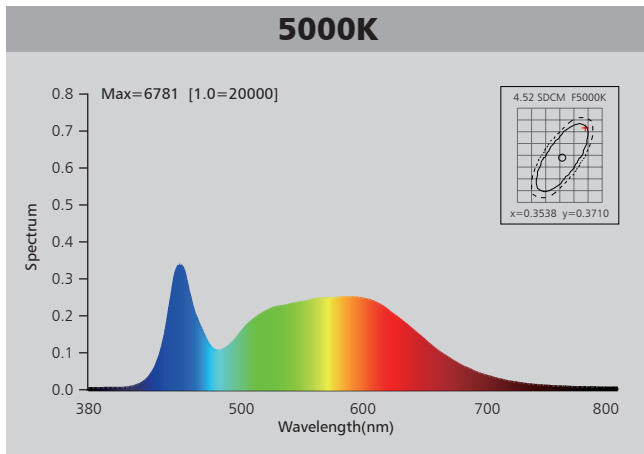
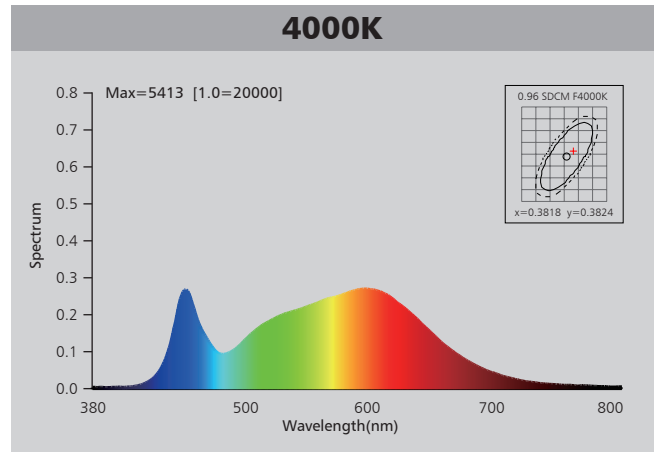
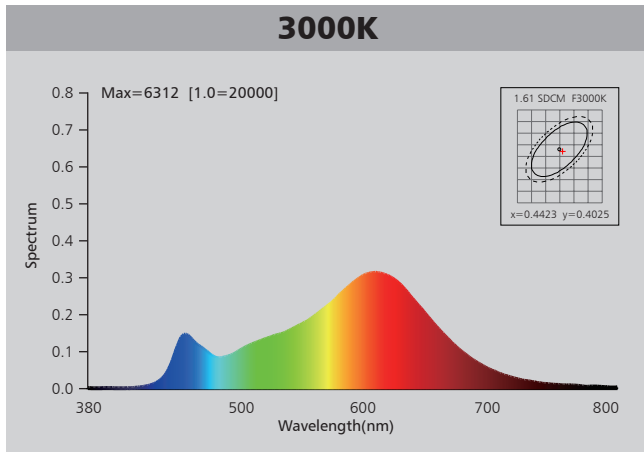
## Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥85%	≥86%
Total load Wattage	18W±1W	18W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.1A	≤0.1A
Full load output Voltage	DC23-40V	DC24-40V
Rated output current	500mA	500mA
Output current range	500mA±5%	500mA±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	≤18%	≤18%
Withstand voltage	AC3750V	AC3750V

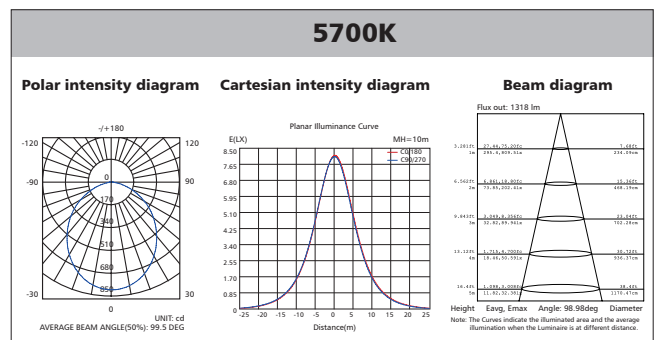
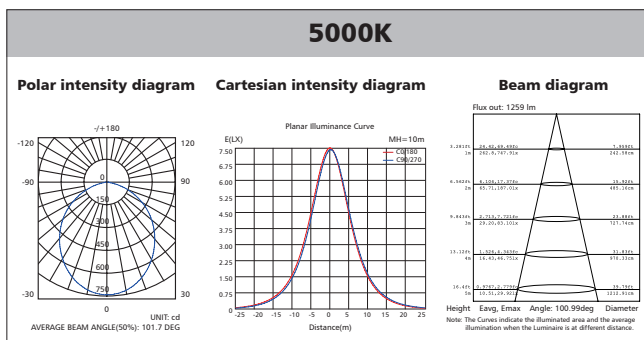
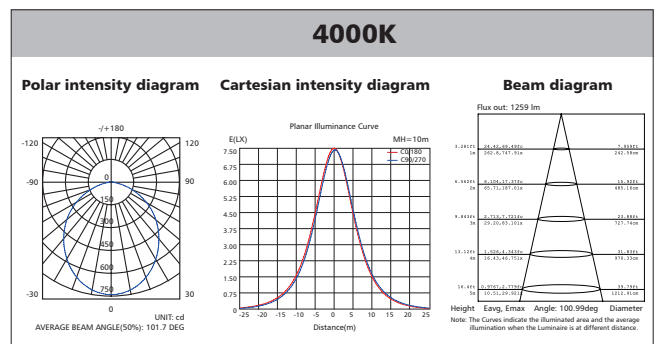
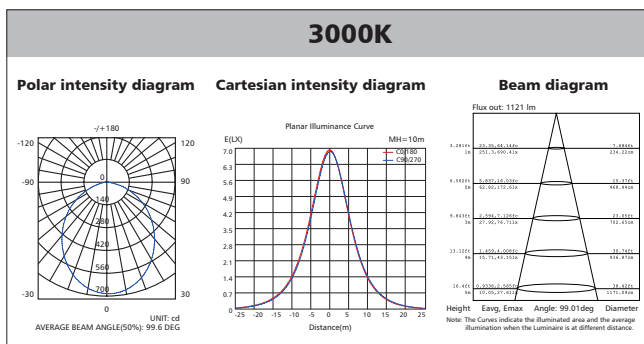
## Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
18W	II	IP65	-20°C~45°C	0~90%	-20°C~65°C

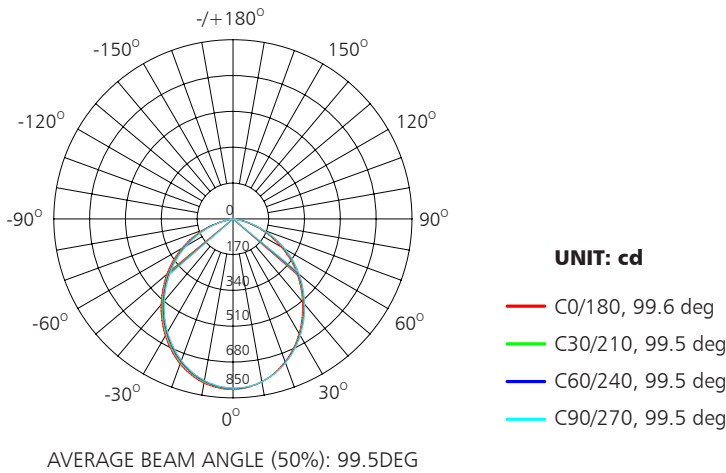
# Spectral Distribution



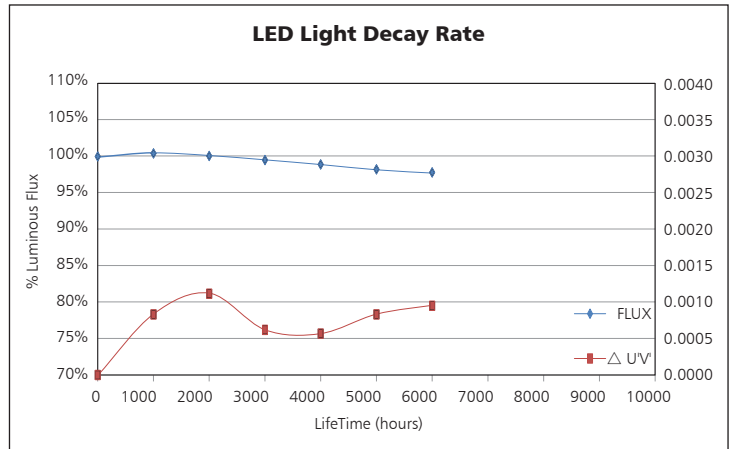
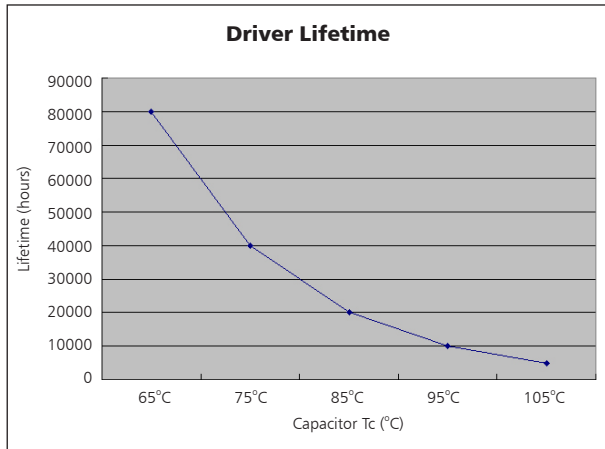
# Photometric Diagram



# Polar Diagram Comparison

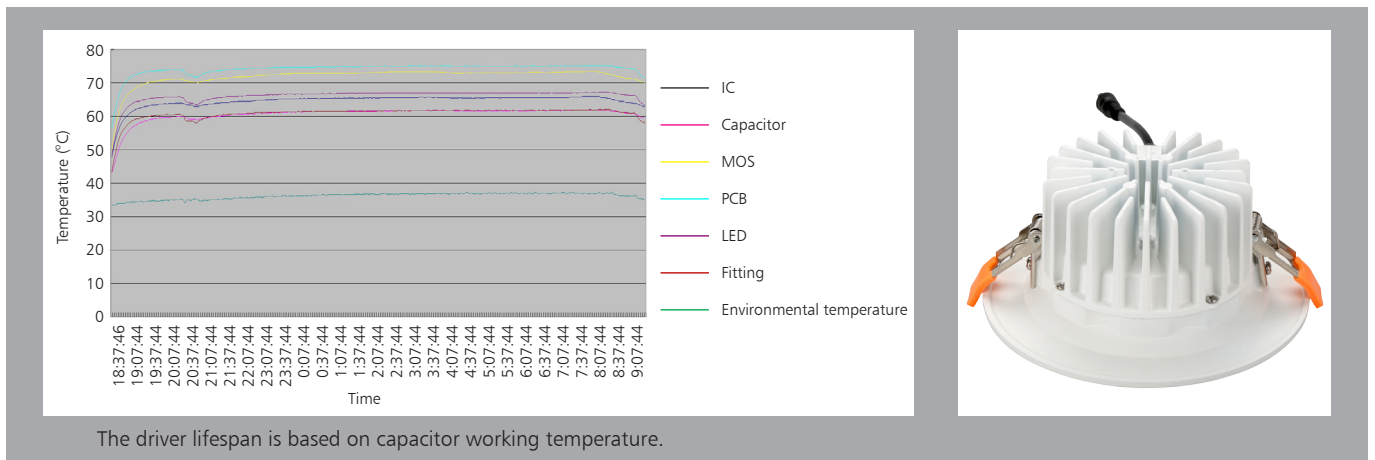


# Driver lifetime & LED light decay rate



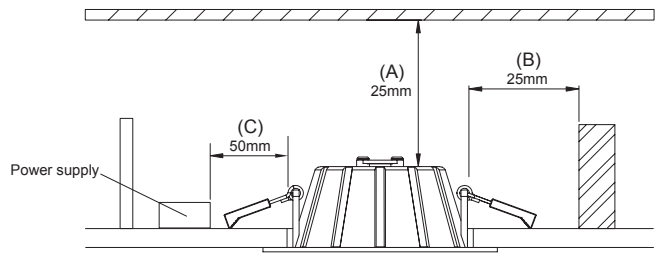
# Temperature

- 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



# Installation

Install requirements	
A-gap above the fitting	25mm
B-gap to the building material	25mm
C-gap to the thermal insulation	50mm



1. Open a hole according to the cutout size of led downlight.

2. Use screw-driver to open the driver terminal cover, feed the main AC wire L. N. in terminal block respectively, then fix the cover back.

3. Connect the downlight with driver, hold back the spring clip then push the downlight into the hole.

4. Make sure the downlight fixed tightly in ceiling, turn on the power (Fig 1).

# Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	68*51.5*27	0.61	18.5	24

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	292	7008	28
40" standard container	586	14064	56

