



Up-shine[®] Lighting



Technical Application Guide for UP-SHINE LED Downlight

UP-DL110-3-13W

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
- Ø95-100mm 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

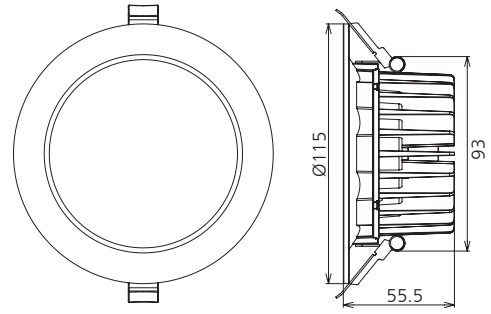
Application Areas

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



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL110-3-13W	AC230V	13W	≥0.9	1190	90°	3000K	40000h	≥80	No	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W	AC230V	13W	≥0.9	1270	90°	4000K	40000h	≥80	No	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W	AC230V	13W	≥0.9	1300	90°	5000K	40000h	≥80	No	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W	AC230V	13W	≥0.9	1320	90°	5700K	40000h	≥80	No	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W-D	AC230V	13W	≥0.9	1130	90°	3000K	40000h	≥80	Yes	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W-D	AC230V	13W	≥0.9	1200	90°	4000K	40000h	≥80	Yes	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W-D	AC230V	13W	≥0.9	1240	90°	5000K	40000h	≥80	Yes	Ø115*55.5mm cutout 95-100mm
UP-DL110-3-13W-D	AC230V	13W	≥0.9	1270	90°	5700K	40000h	≥80	Yes	Ø115*55.5mm cutout 95-100mm

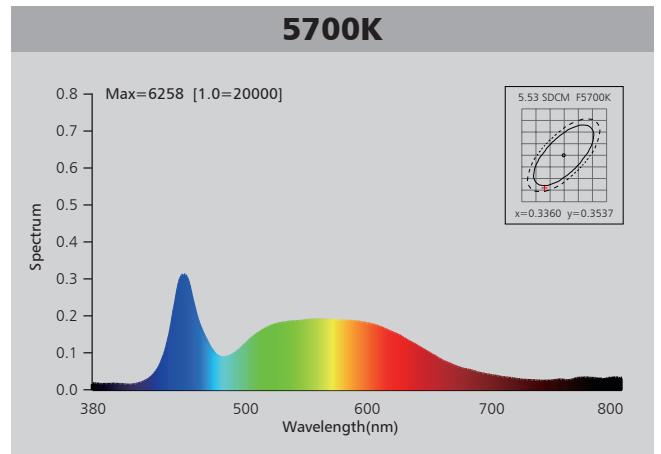
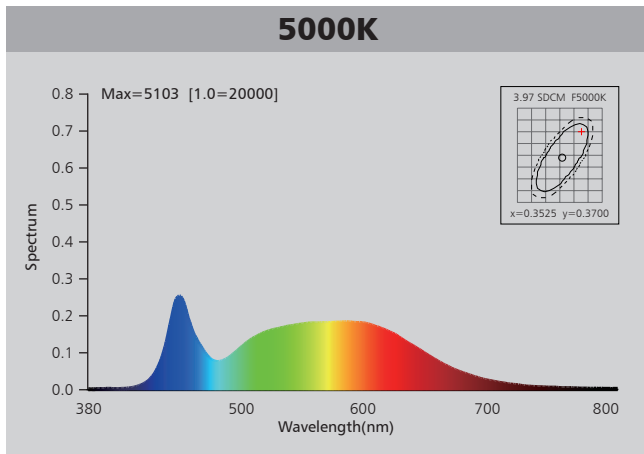
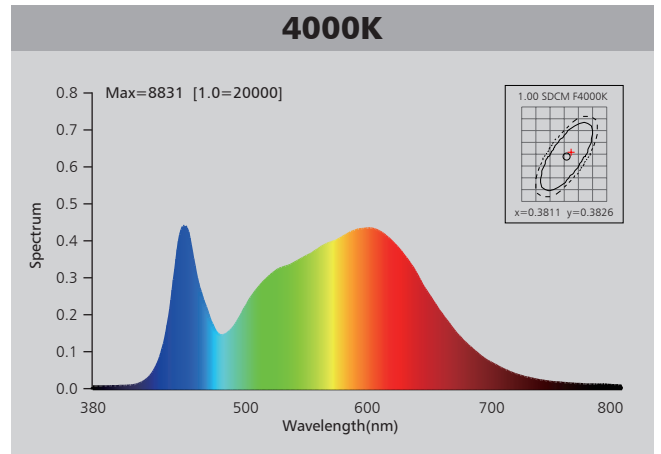
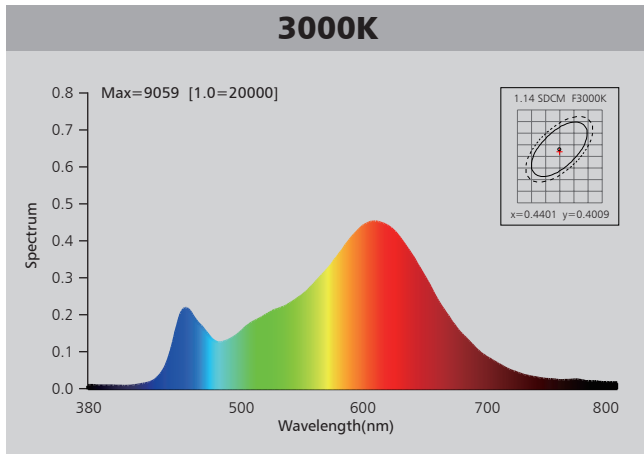
Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥78%	≥84%
Total load Wattage	13W±1W	13W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.08A	≤0.08A
Full load output Voltage	DC23-33V	DC25-40V
Rated output current	380mA	380mA
Output current range	380mA±5%	380mA±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

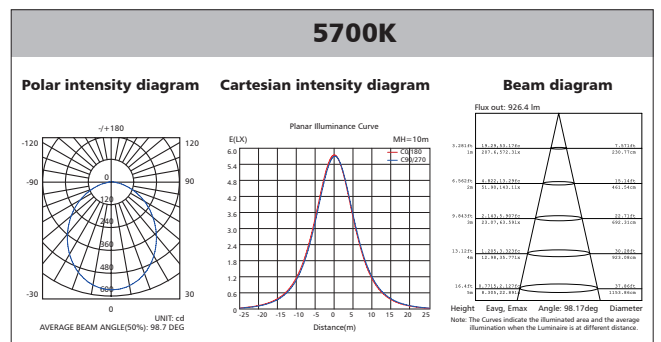
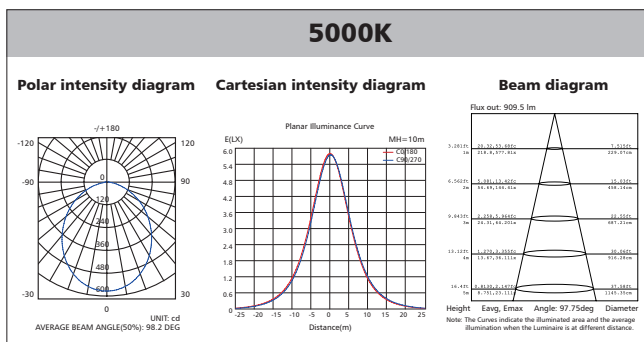
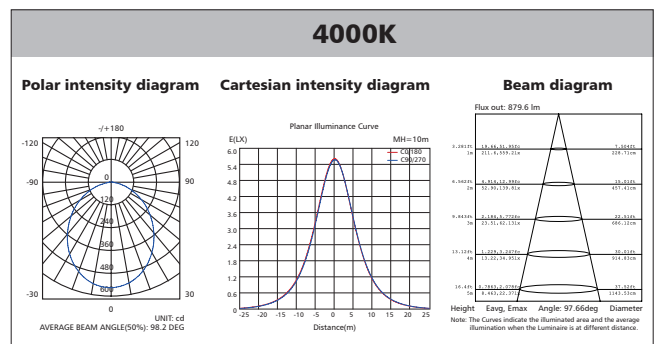
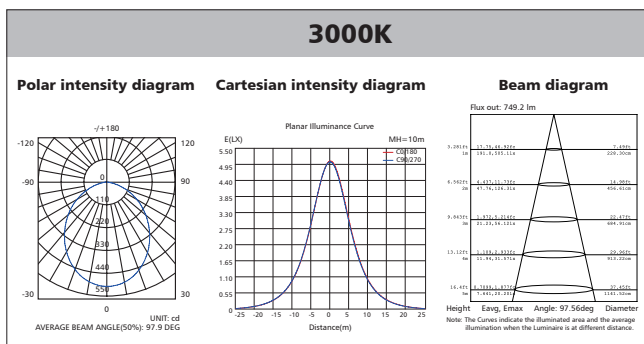
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
13W	II	IP65	-20°C~45°C	0~90%	-20°C~65°C

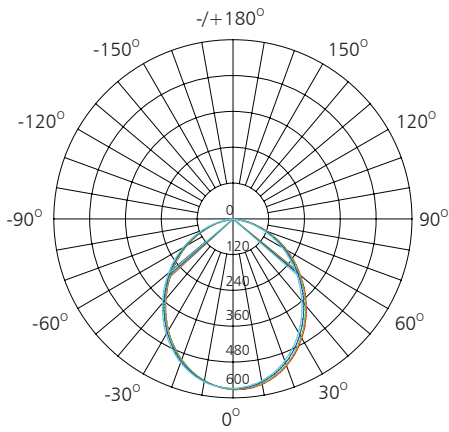
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



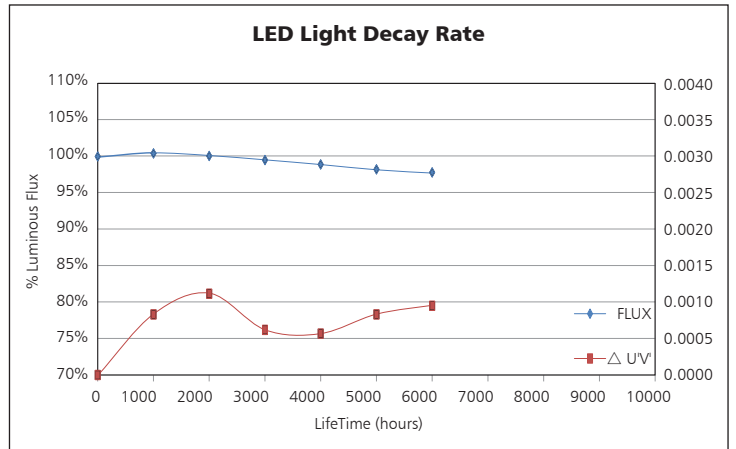
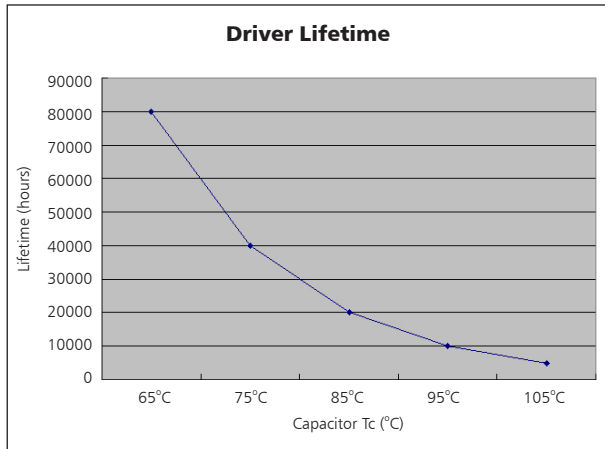
UNIT: cd

- C0/180, 98.6 deg
- C30/210, 98.7 deg
- C60/240, 98.7 deg
- C90/270, 98.7 deg

AVERAGE BEAM ANGLE (50%): 98.7DEG

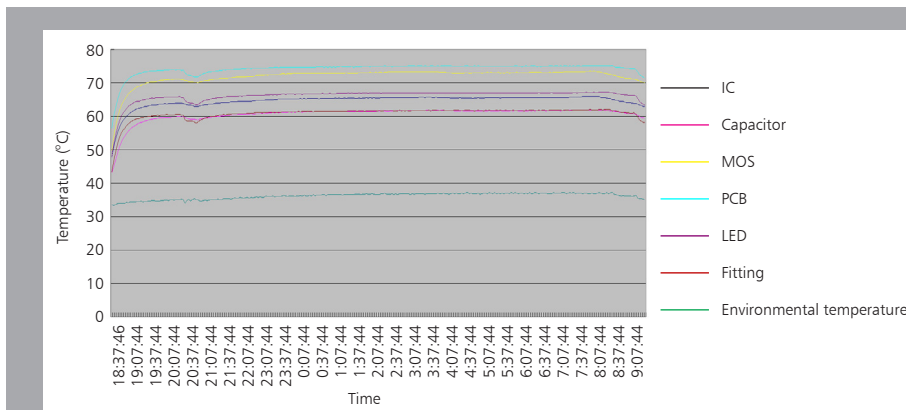


Driver lifetime & LED light decay rate



Temperature

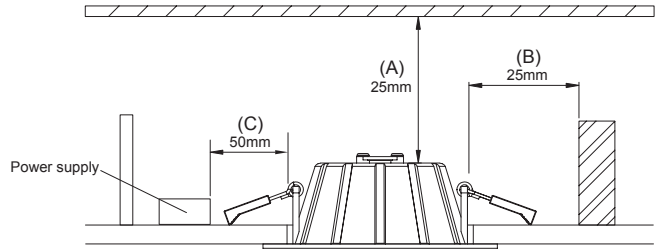
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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	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	52*39.5*25	0.4	13.5	24

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	534	12816	28
40" standard container	1068	25632	56

