



UPSHINE<sup>®</sup>



Technical Application  
Guide for UP SHINE  
LED Downlight  
UP-DL54-4-13W-D

# Introduction



Up-shine SMD LED Down light adopts high lumen SMD LED, PC diffuser with even light output. Plastic coated aluminum housing with internal driver design; it is our most economical and practical downlight version. Dimmable driver shares great popularity by the excellent dimming effect.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Dimmable when using triac dimmer
- 90° wide beam angle
- 120-130mm cutout
- CCT: 3000K 4000K  
5000K 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

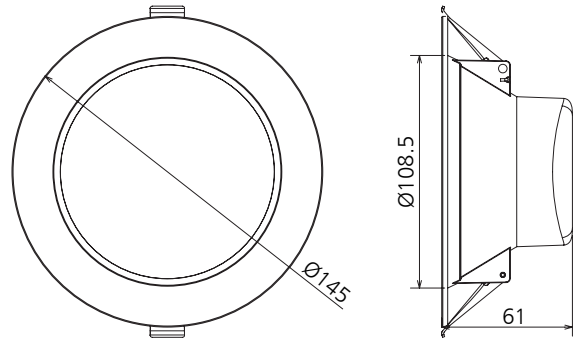
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

## Certificate

**CE** **RoHS** **SAA**



# Product Information



## Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL54-4-13W-D	AC230V	13W	0.9	1000	90°	3000K	40000h	≥80	Yes	Ø145*61mm cutout 120-130mm
UP-DL54-4-13W-D	AC230V	13W	0.9	1100	90°	4000K	40000h	≥80	Yes	Ø145*61mm cutout 120-130mm
UP-DL54-4-13W-D	AC230V	13W	0.9	1060	90°	5000K	40000h	≥80	Yes	Ø145*61mm cutout 120-130mm
UP-DL54-4-13W-D	AC230V	13W	0.9	1090	90°	5700K	40000h	≥80	Yes	Ø145*61mm cutout 120-130mm

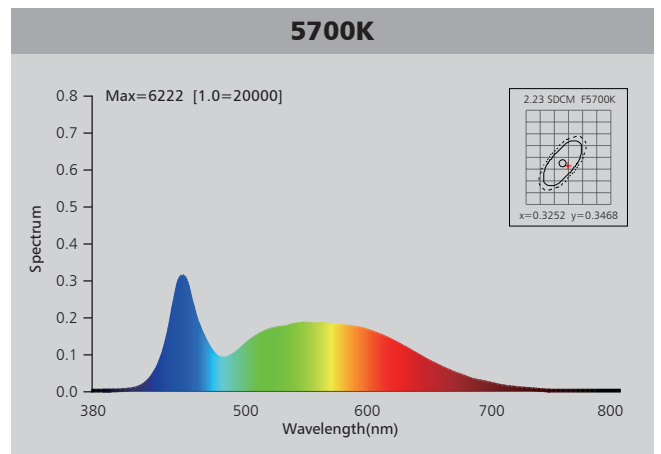
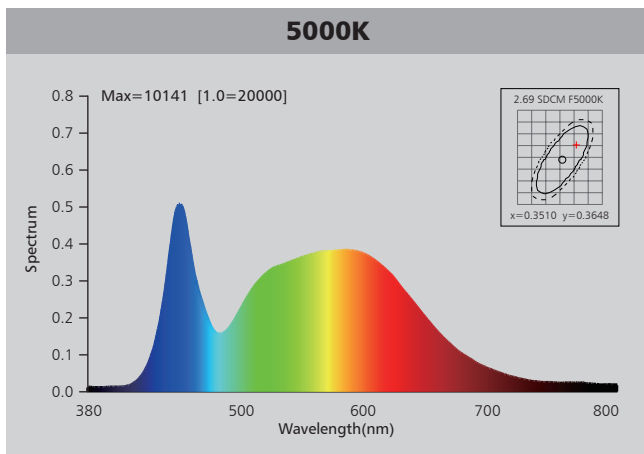
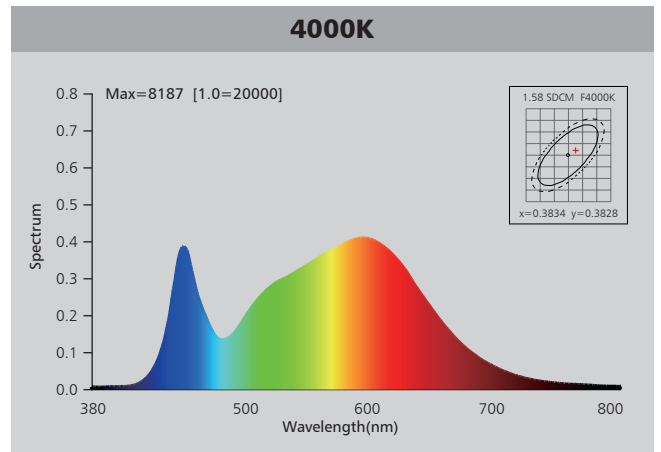
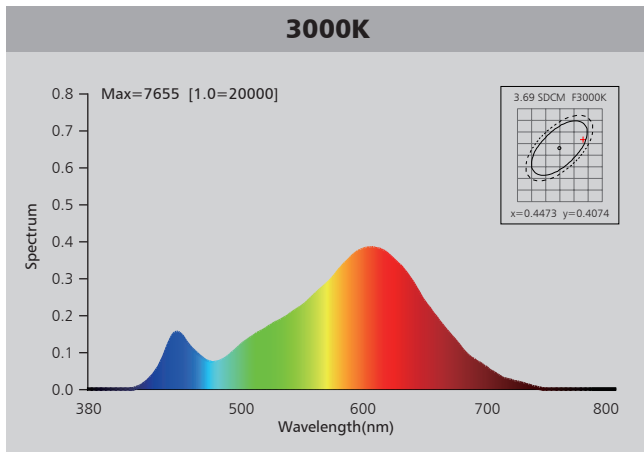
## Driver data Sheet

Driver data	DIM
Input rated Voltage	AC230V
Frequency	50Hz
Input Voltage	AC200-240V
Efficiency	≥85%
Total load Wattage	13W±1W
Power Factor	0.9
Rated input current	≤0.07A
Full load output Voltage	65-78V
Rated output current	140mA
Output current range	140mA±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

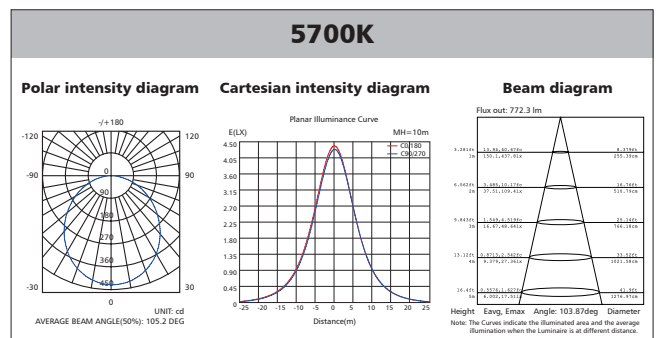
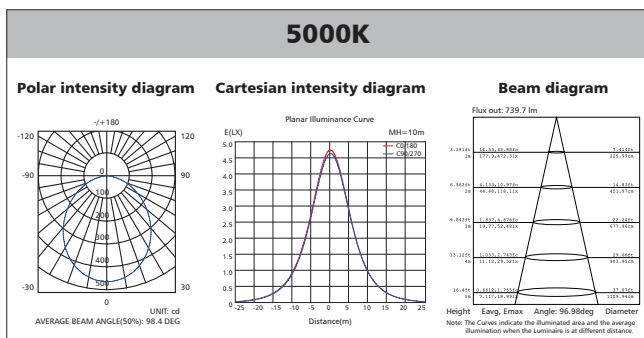
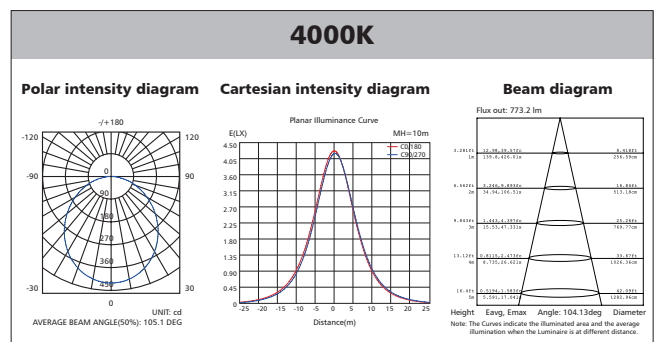
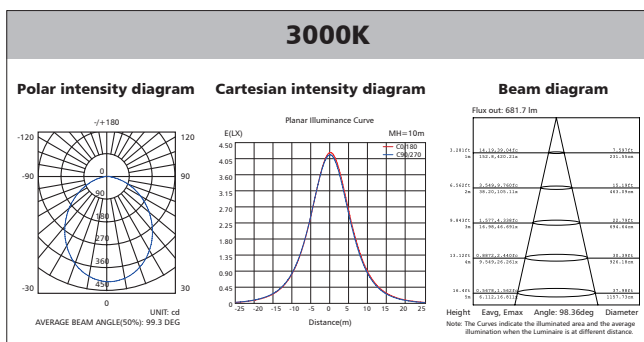
## Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
13W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

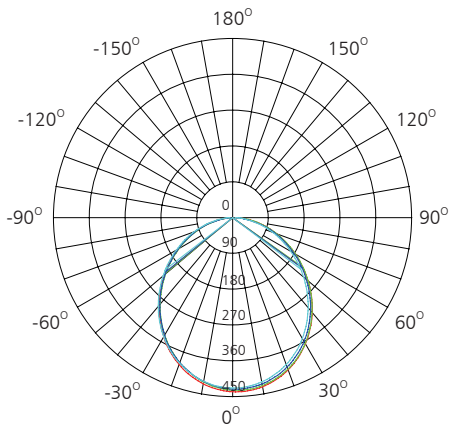
# Spectral Distribution



# Photometric Diagram



# Polar Diagram Comparison



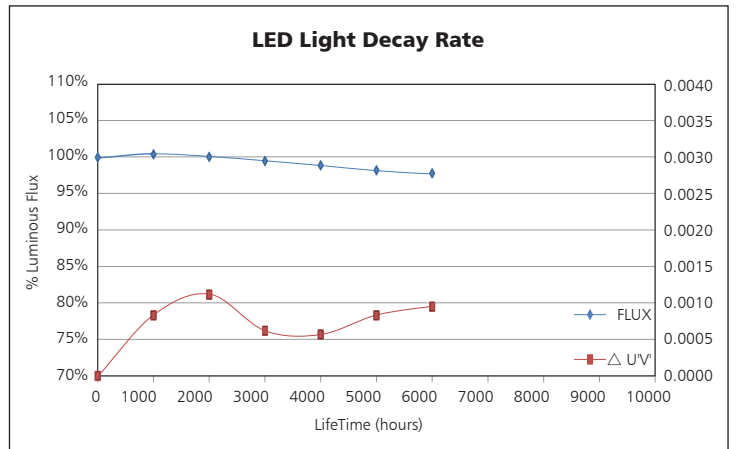
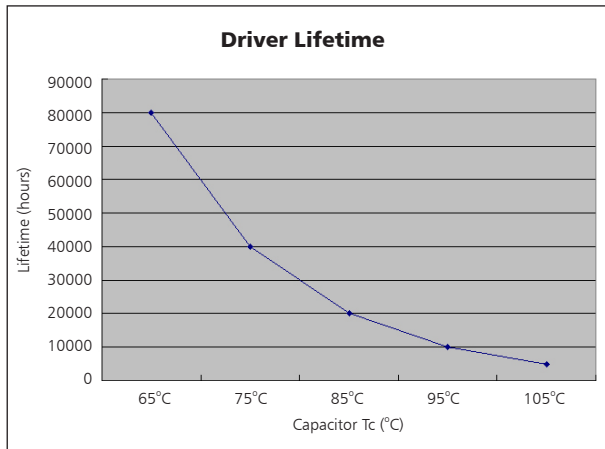
UNIT: cd

- C0/180, 105.2 deg
- C30/210, 105.1 deg
- C60/240, 105.1 deg
- C90/270, 105.2 deg



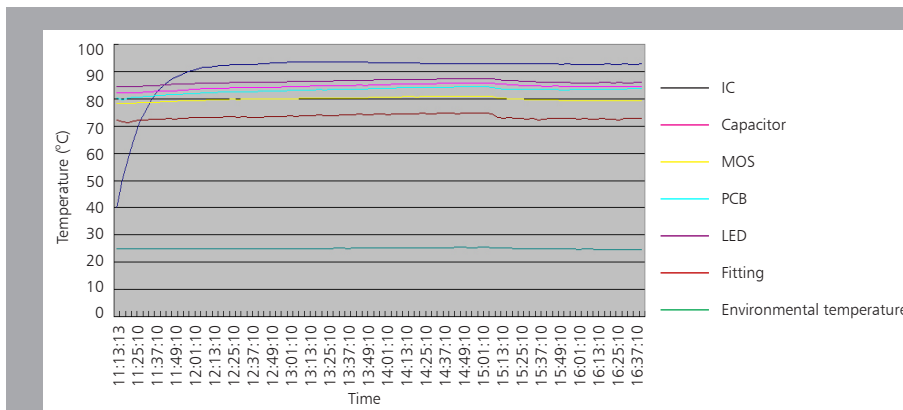
AVERAGE BEAM ANGLE (50%): 105.2DEG

# Driver lifetime & LED light decay rate



# Temperature

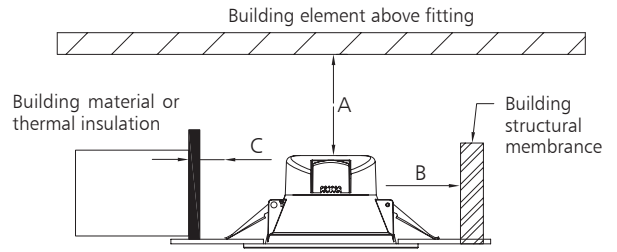
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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 style="text-align: right;">1</p>	<p><b>Connect Power supply</b></p> <p style="text-align: right;">2</p>
<p><b>A. Hold back spring clips</b></p> <p><b>B. Push downlight into position</b></p> <p style="text-align: right;">3</p>	<p><b>Spring Clips</b></p> <p style="text-align: right;">4</p>

# Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	48.5*33*37	0.28	11.7	30

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	465	13950	28
40" standard container	930	27900	56

