



Up-shine<sup>®</sup> Lighting



Technical Application  
Guide for UP SHINE  
LED Downlight

UP-DL54B-4-13W

# Introduction



SMD LED Down light adopts high lumen SMD LED, PC diffuser with even light output. V0 fire rated plastic housing with internal driver design; it is our most economical and practical downlight version. Dimmable version available, it shares great popularity by the excellent dimming effect.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- 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

- IP54 only for the LED cover, IP40 for other part
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

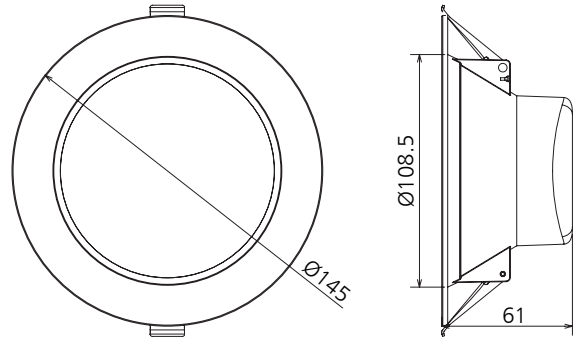
## Application Areas

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-DL54B-4-13W	AC100-240V	13W	≥0.9	1015	90°	3000K	40000h	≥80	No	Ø145*61mm cutout 120-130mm
UP-DL54B-4-13W	AC100-240V	13W	≥0.9	1110	90°	4000K	40000h	≥80	No	Ø145*61mm cutout 120-130mm
UP-DL54B-4-13W	AC100-240V	13W	≥0.9	1070	90°	5000K	40000h	≥80	No	Ø145*61mm cutout 120-130mm
UP-DL54B-4-13W	AC100-240V	13W	≥0.9	1100	90°	5700K	40000h	≥80	No	Ø145*61mm cutout 120-130mm

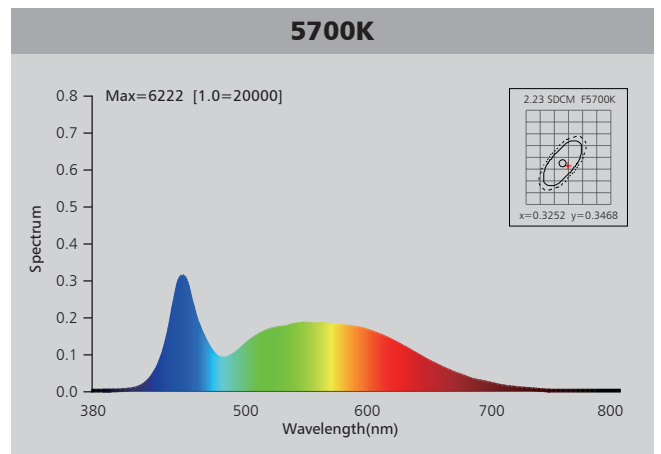
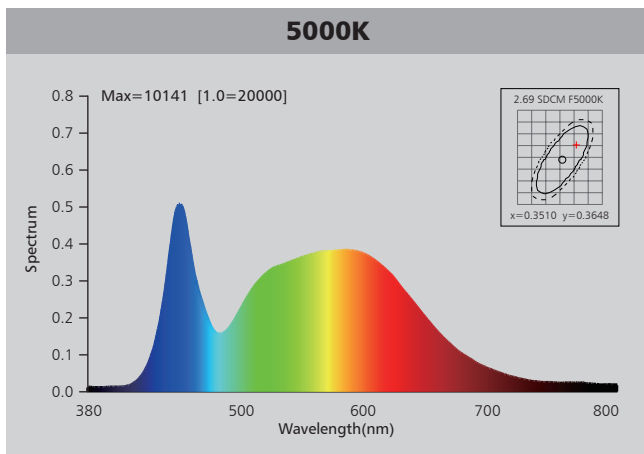
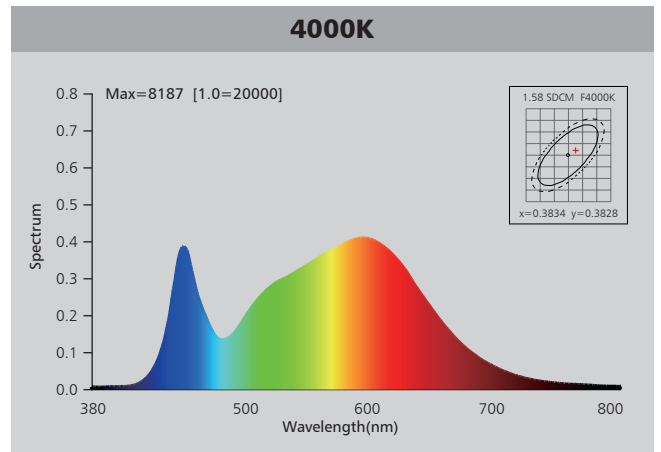
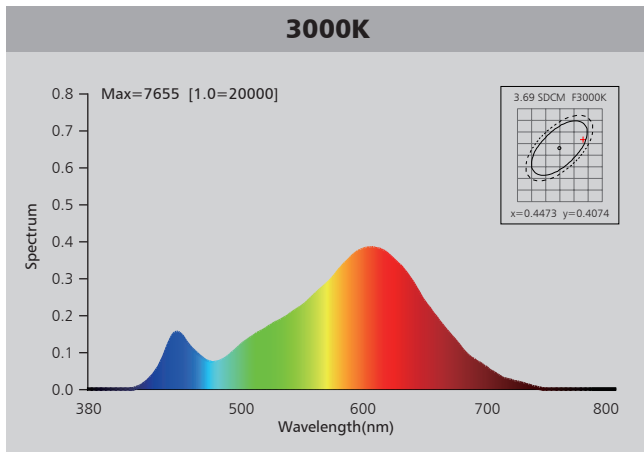
## Driver data Sheet

Driver data	Non-DIM
Input rated Voltage	AC100-240V
Frequency	50/60Hz
Input Voltage	AC85-265V
Efficiency	≥86%
Total load Wattage	13W±1W
Power Factor	≥0.9
Rated input current	≤0.15A
Full load output Voltage	55-78V
Rated output current	160mA
Output current range	160mA±5%
Power tolerance	±5%
Current output tolerance	±5%
Dimming range	—
Dimmer	—
Short circuit protection	PASS
Over voltage protection	PASS
Over temperature protection	PASS
Withstand voltage	—

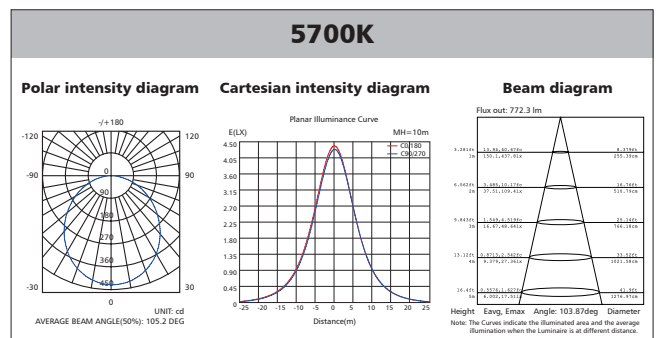
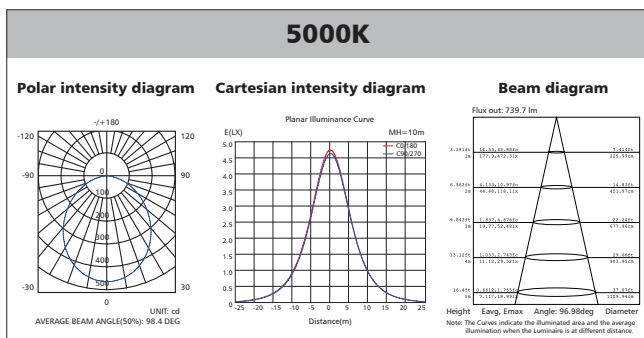
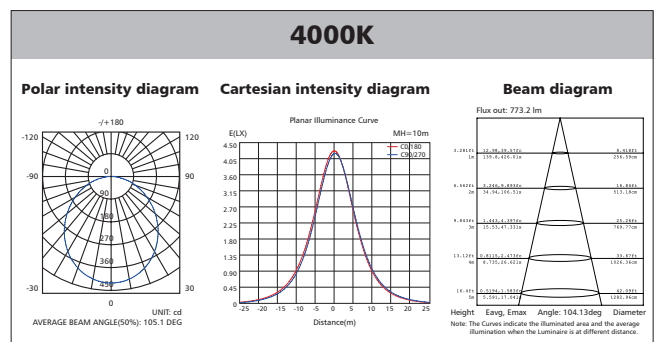
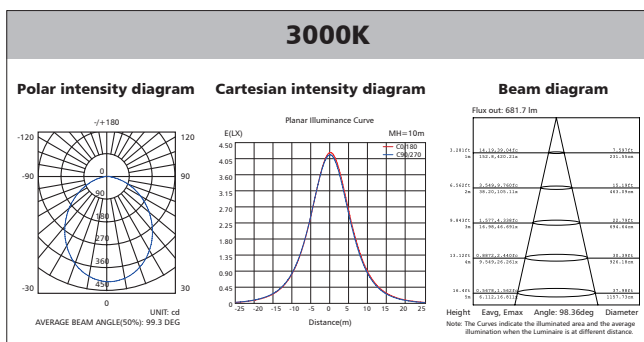
## Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
13W	II	IP40 / IP54	-20°C~45°C	0~90%	-20°C~65°C

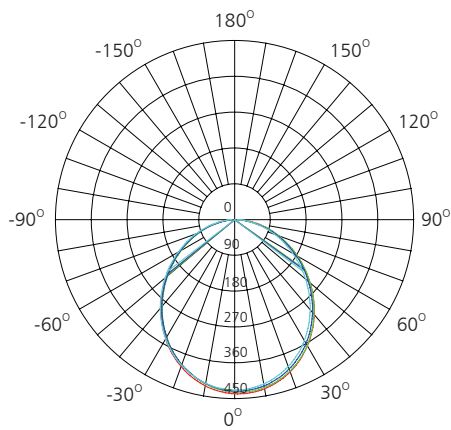
# Spectral Distribution



# Photometric Diagram



## Polar Diagram Comparison



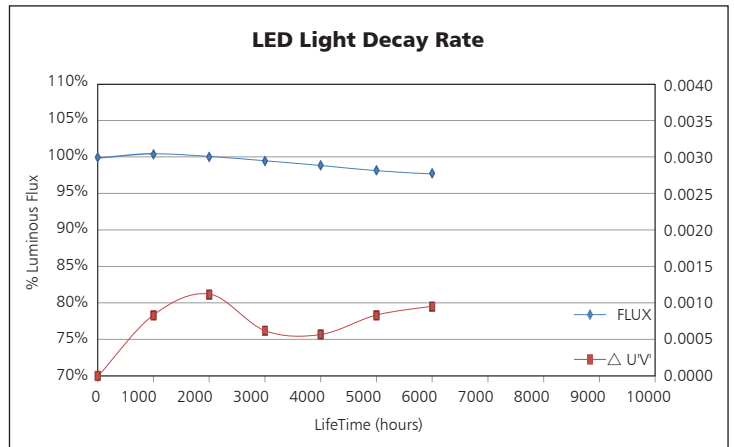
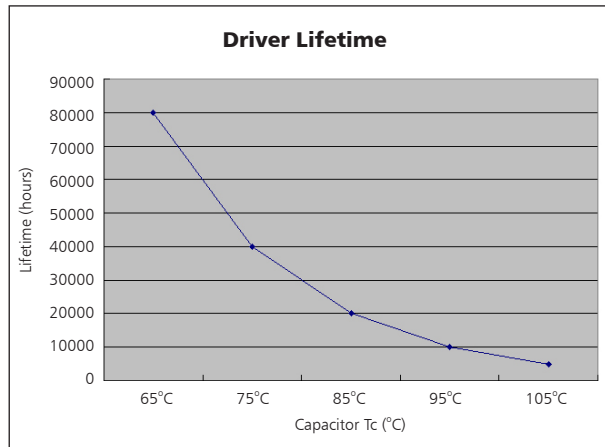
UNIT: cd

- 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

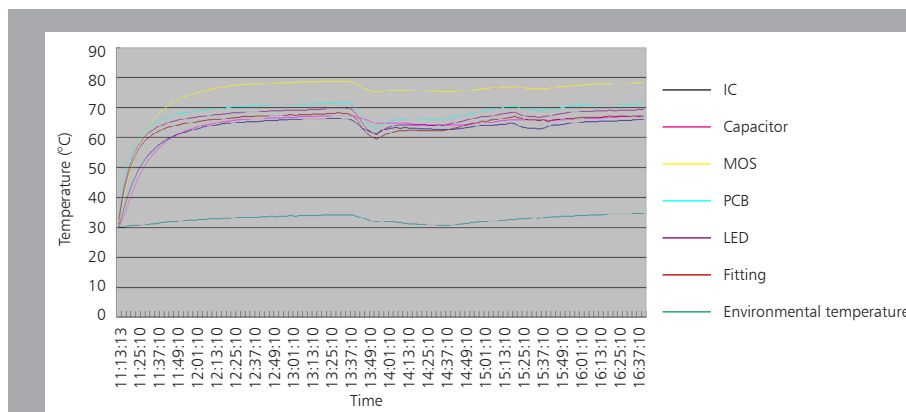


## Driver lifetime & LED light decay rate



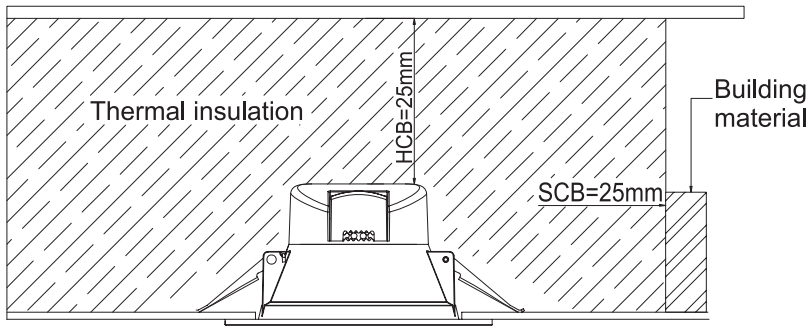
## Temperature

- 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



<p>Ceiling Opening</p> <p>1</p>	<p>Loosen the screw and take off the cover, connect the wire to the wiring terminals, put the cover back and tighten the screw.</p> <p>2</p>
<p>A. Hold back spring clips</p> <p>B. Push downlight into position</p> <p>3</p>	<p>Spring Clips</p> <p>Ceiling</p> <p>4</p>

# Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	48.5*33*37	0.34	11.2	30

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

