



UPSHINE®



Technical Application  
Guide for UP-SHINE  
LED Downlight  
UP-DL44-3-13W

# Introduction



DL44 downlight is structural designed with integration of heatsink and surface cover, aims at increasing the heat dissipation area. IP54 waterproof for indoor use, especially for damp locations. UL94-V0 Fire-rated PC diffuser provides high light transmittance and even light output. It is an ideal replacement for residential and commercial lighting.

Up to 70% energy saving compared to standard CFL

Long lifetime of 40,000 hours

Dimmable when using triac dimmer

90° wide beam angle

90-95mm cutout

CCT: 3000K 4000K

5000K 5700K

No UV/IR light

Environment friendly, without Mercury or any other hazardous substances

## Application notes

- IP54 for indoor 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

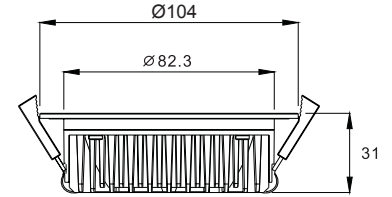
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

## Certificate

CE RoHS SAA



# Product Information



## Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL44-3-13W	AC100-240V	13W	≥0.9	1020	90°	3000K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W	AC100-240V	13W	≥0.9	1040	90°	4000K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W	AC100-240V	13W	≥0.9	1050	90°	5000K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W	AC100-240V	13W	≥0.9	1070	90°	5700K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D	AC230V	13W	≥0.9	930	90°	3000K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D	AC230V	13W	≥0.9	970	90°	4000K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D	AC230V	13W	≥0.9	980	90°	5000K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D	AC230V	13W	≥0.9	1000	90°	5700K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm

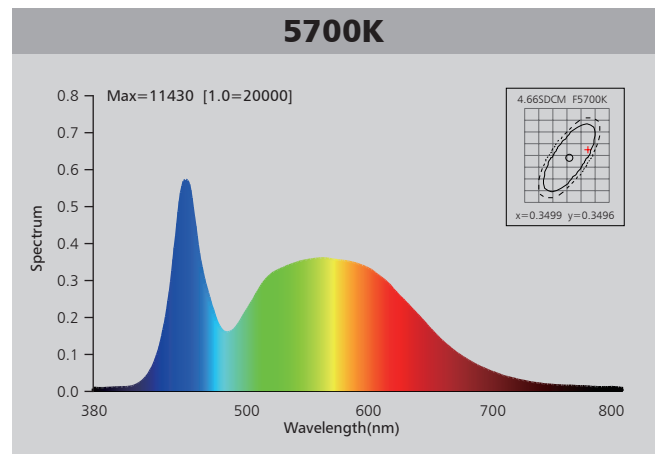
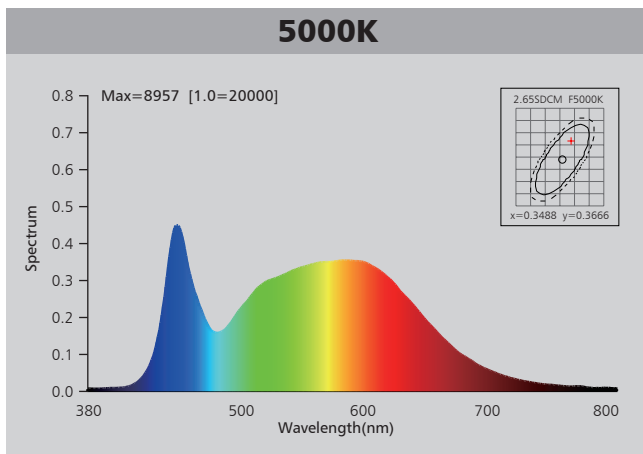
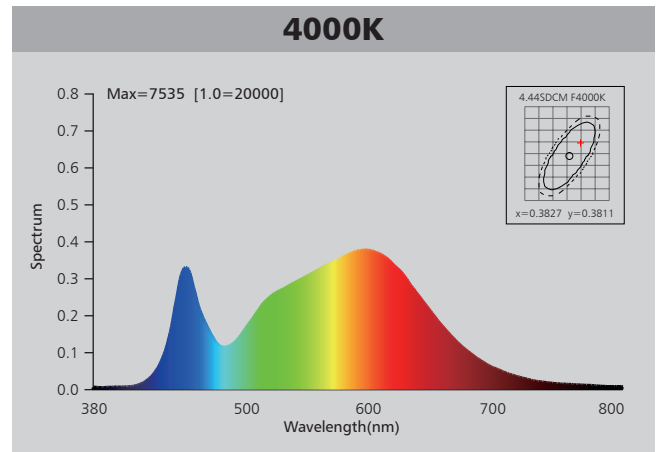
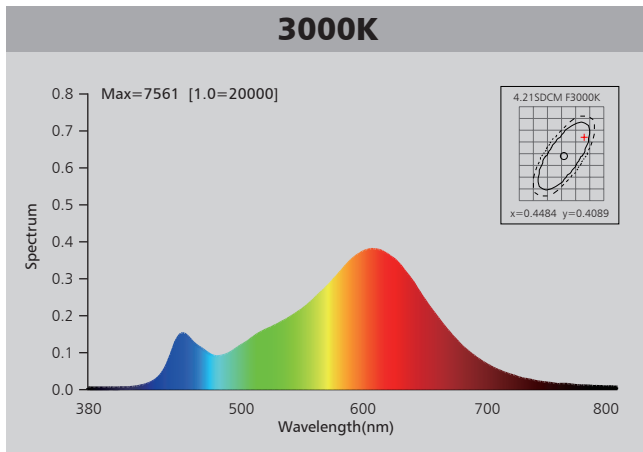
## Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC100-240V
Frequency	50HZ	50/60HZ
Input Voltage	AC200-240V	AC85-265V
Efficiency	≥75%	≥85%
Total load Wattage	13W±1W	13W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.08A	≤0.15A
Full load output Voltage	DC26-30V	DC26-30V
Rated output current	350mA	380mA
Output current range	350mA±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
Withstand voltage	AC3750V	AC3750V

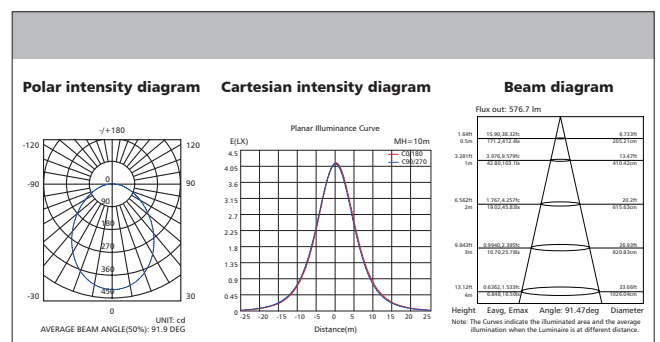
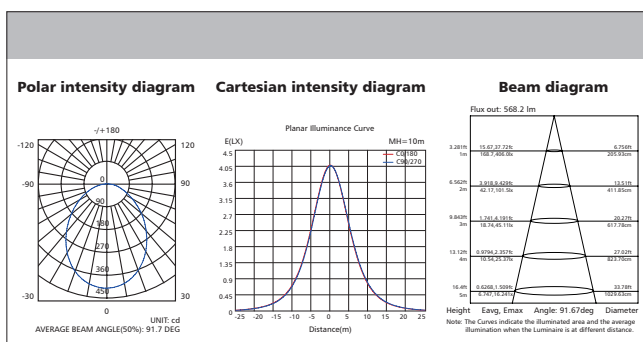
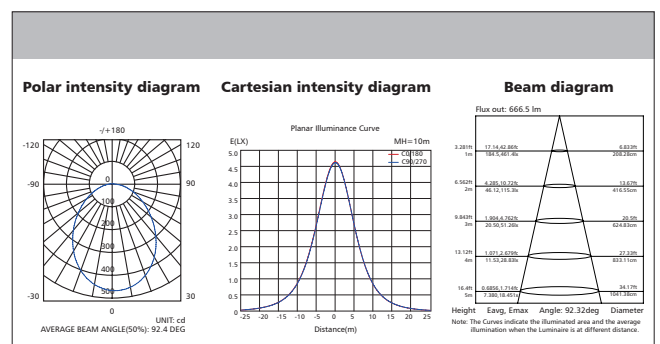
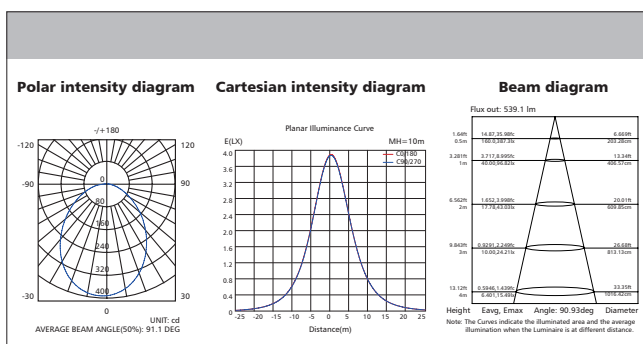
## Fixture Compatibility

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

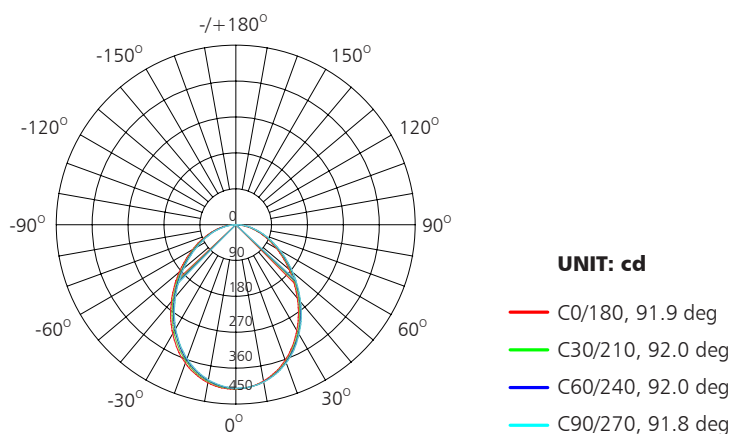
# Spectral Distribution



# Photometric Diagram



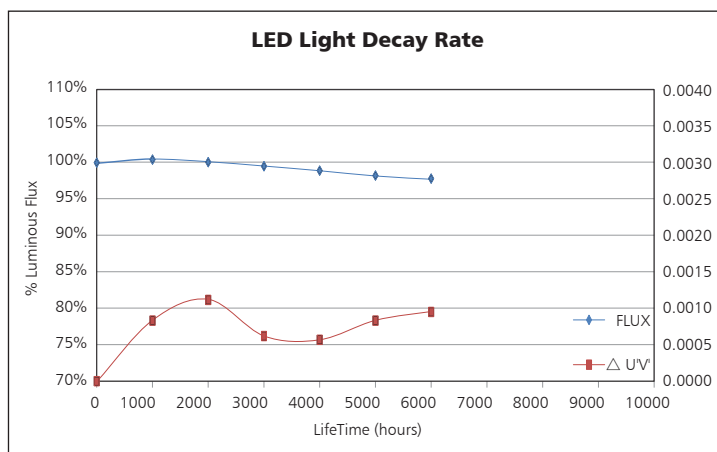
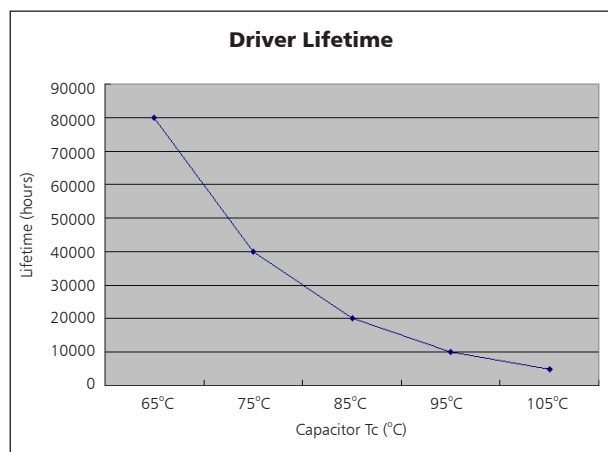
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 91.9DEG

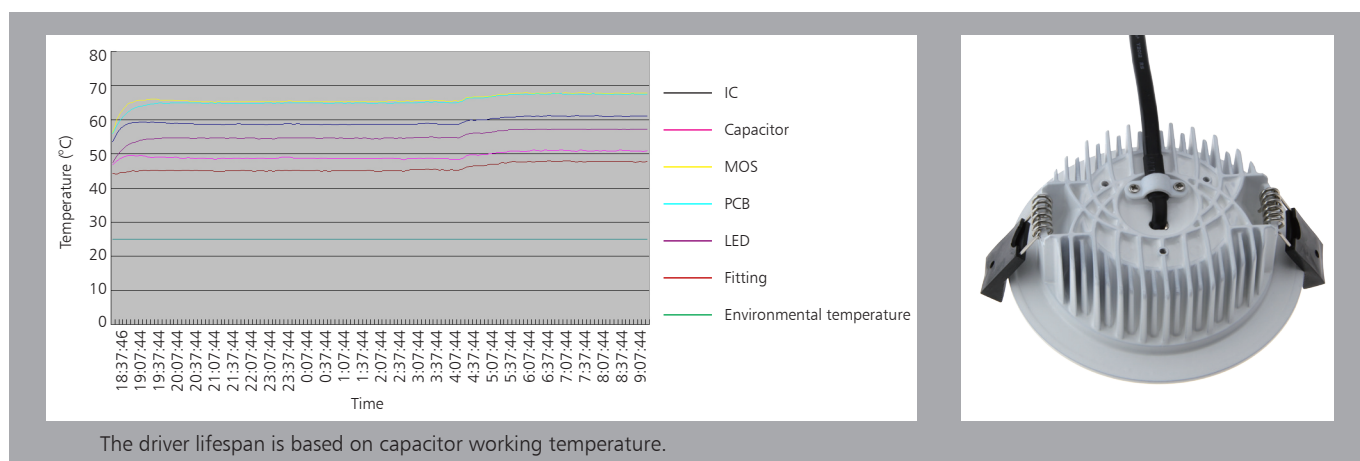


## Driver lifetime & LED light decay rate



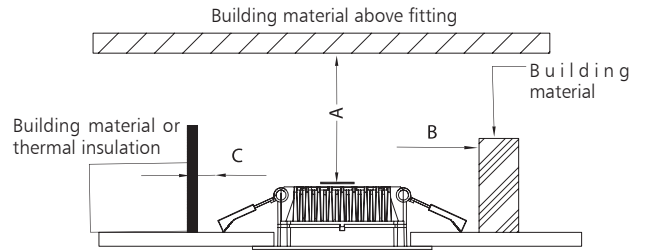
## Temperature

- 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	25mm



<p><b>Ceiling Opening <math>\varnothing 90-95\text{mm}</math></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 x 37 x 20	0.3	8.2	24

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	756	18144	28
40" standard container	1512	36288	56

