



UPSHINE<sup>®</sup>



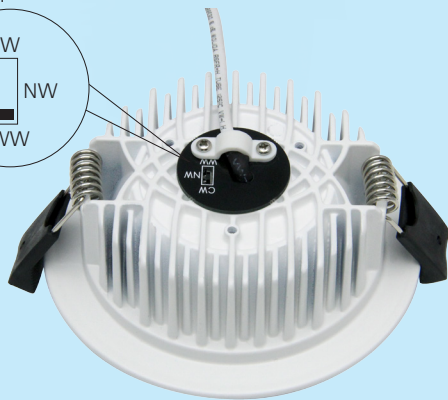
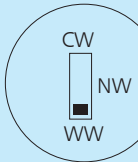
Technical Application  
Guide for UP-SHINE  
LED Downlight

UP-DL44-3-13W-P3

# Introduction



Slide switch for color selection



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: 2700K 4000K 5000K

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

## Operation illustrates:

1. Choose color by slide switch with correspond color temperature.
2. Triac dimmable is available once a color has been selected

## Note

Power offer before color selection operation

## Application Areas

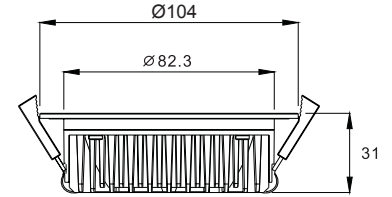
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

## 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-P3	AC100-240V	13W	≥0.9	1030	90°	2700K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-P3	AC100-240V	13W	≥0.9	1210	90°	4000K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-P3	AC100-240V	13W	≥0.9	1050	90°	5000K	40000h	≥80	No	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D-P3	AC230V	13W	≥0.9	900	90°	2700K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D-P3	AC230V	13W	≥0.9	1070	90°	4000K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm
UP-DL44-3-13W-D-P3	AC230V	13W	≥0.9	870	90°	5000K	40000h	≥80	Yes	Ø104*31mm cutout 90-95mm

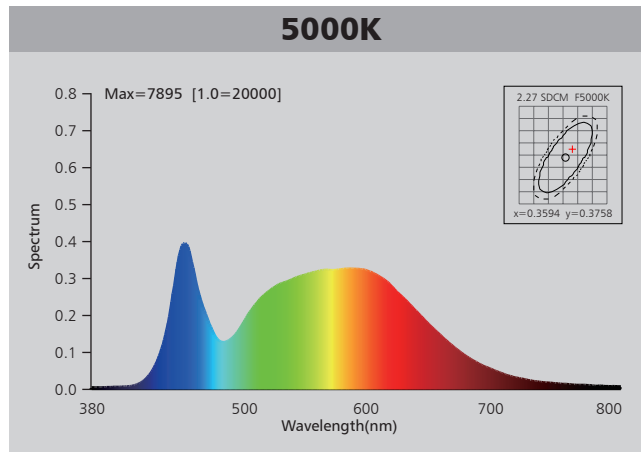
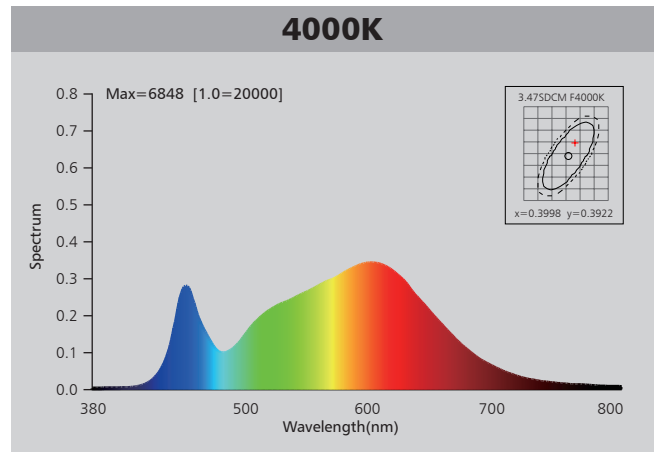
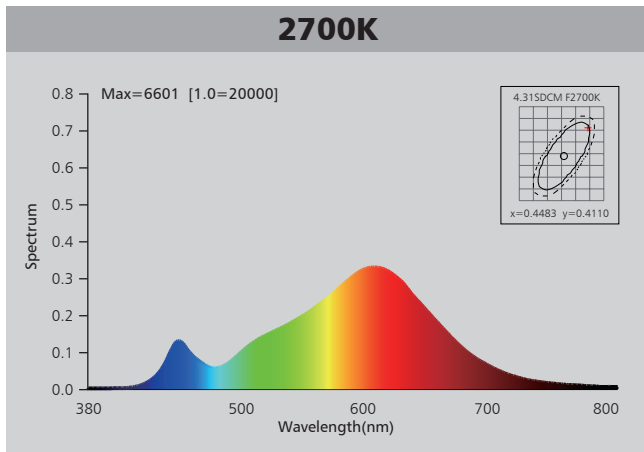
## Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC100-240V
Frequency	50HZ	50/60HZ
Input Voltage	AC200-240V	AC85-265V
Efficiency	≥78%	≥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	DC35-38V	DC35-38V
Rated output current	270mA	300mA
Output current range	270mA±5%	300mA±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

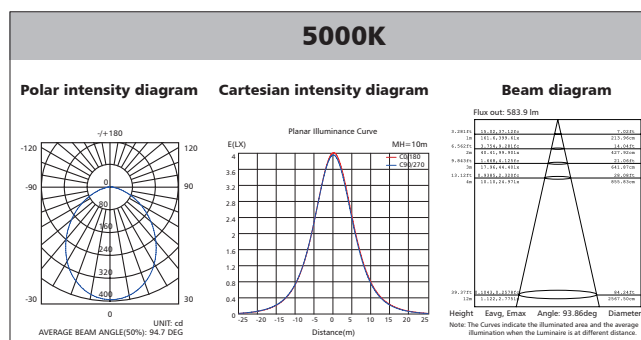
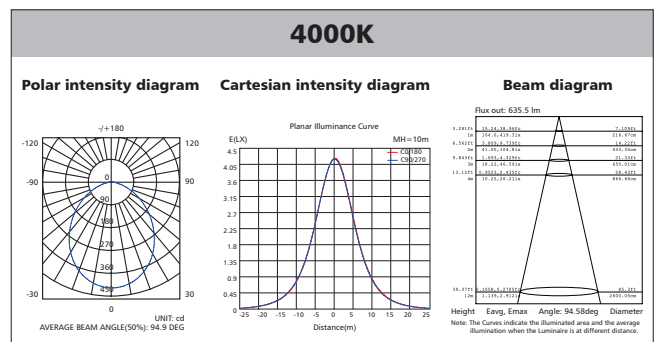
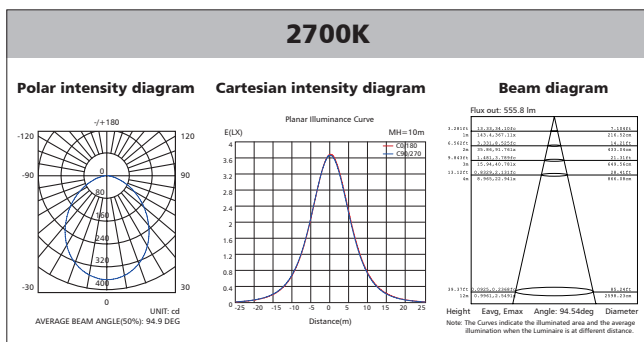
## Fixture Compatibility

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

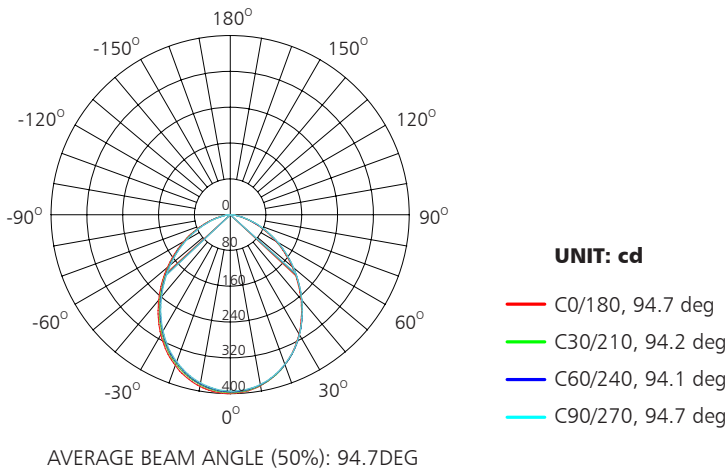
# Spectral Distribution



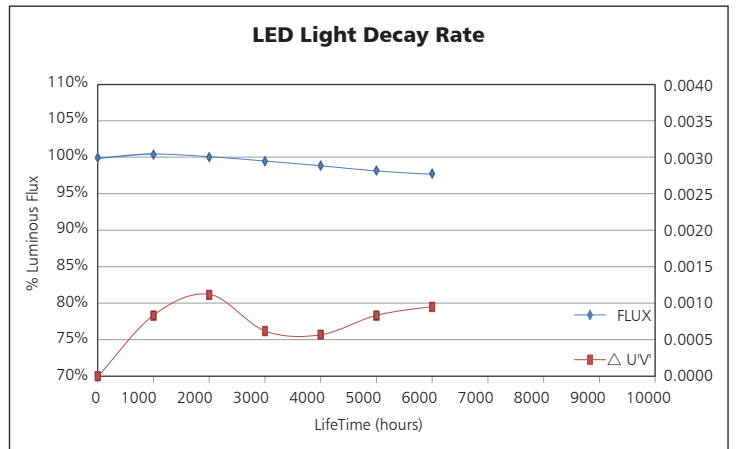
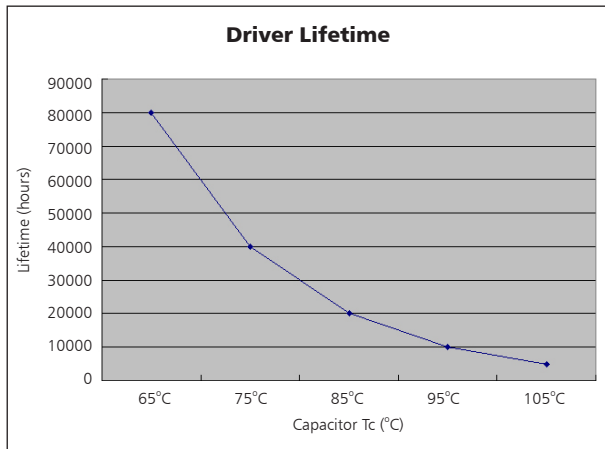
# Photometric Diagram



# Polar Diagram Comparison

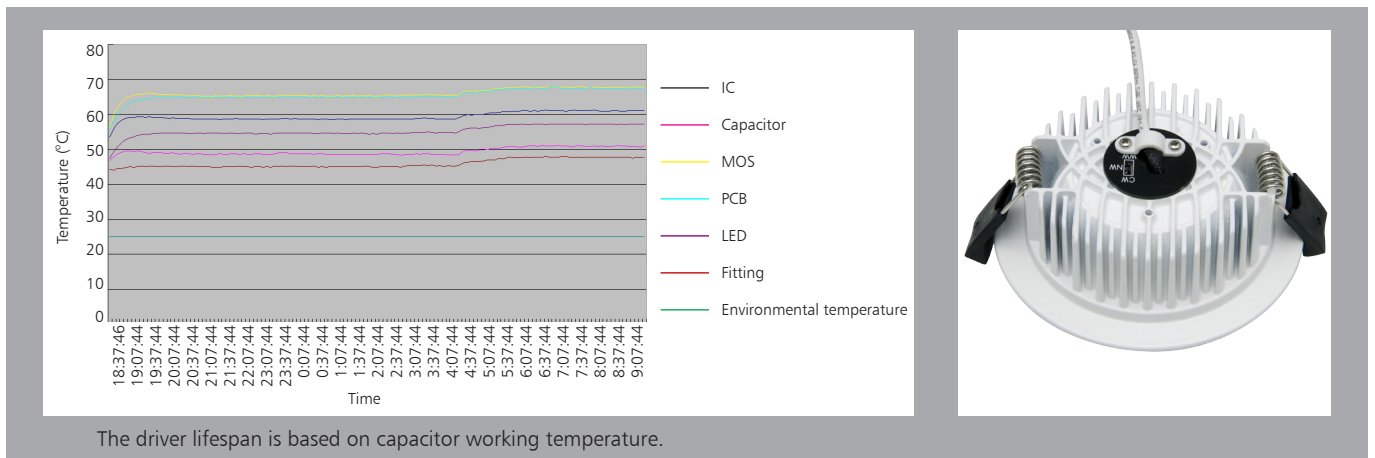


# Driver lifetime & LED light decay rate



# Temperature

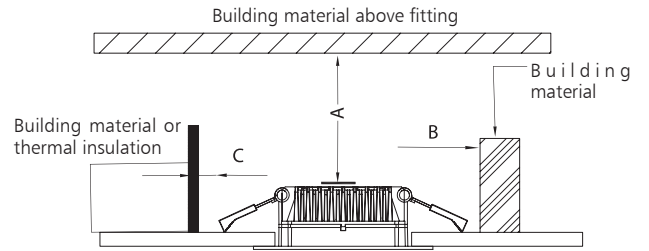
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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><b>Spring Clips</b></p> <p>Slide switch for color selection</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><b>Ceiling</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*37*20	0.3	8.2	24

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

