



Up-shine® Lighting



# Technical Application Guide for UP-SHINE LED Downlight

UP-DL98A-4-13W

UP-DL98B-4-13W

# Introduction



DL98 model is an integrated downlight provides the perfect combination of efficiency, light comfort and design, without compromising on lighting performance (color rendering and color uniformity). It offers a wide choice of options for creating the desired ambience.

## Features

1. Integrated SMD LED down lights with Faceted / Specula Reflector.
2. No external driver required which facilitates easy installation.
3. A perfect alternative to traditional ceiling mounted luminaires.
4. Looping from luminaires to luminaires with mains through-wiring.
5. IP54 protection at room side, suitable for bathrooms, kitchens.
6. Triac Dimmable version available.
7. Good heat dissipating to ensure long life.
8. Internal Driver

## Application notes

- IP54 for indoor use only
- The lamp must be installed by professional electrician
- Ensure the power supply is switched off before fitting this product
- Do not touch the lamp when in use
- Keep away from hot steam and corrosive gas

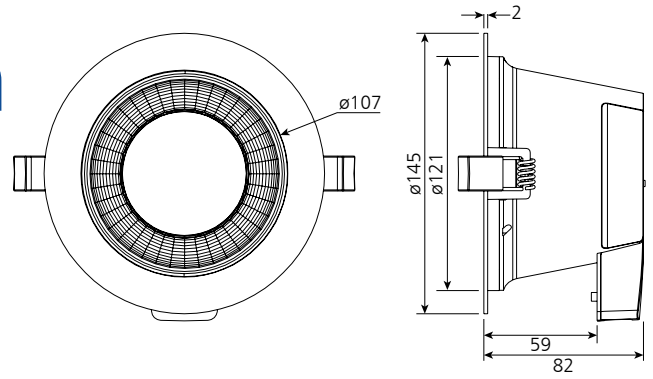
## Application Areas

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	Beam angle	Dimmable	Lumen (±5%)	CCT	UGR	Lifespan	CRI	Dimension
UP-DL98A-4-13W UP-DL98B-4-13W	AC100-277V	13W	≥0.9	90°	No	1240	3000K	—	50,000h	≥80	Ø145*82mm cutout 125-135mm
						1460	4000K				
						1400	5000K				
						1420	5700K				
UP-DL98A-4-13W-D UP-DL98B-4-13W-D	AC200-240V	13W	≥0.9	90°	Yes	1200	3000K	—	50,000h	≥80	Ø145*82mm cutout 125-135mm
						1400	4000K				
						1350	5000K				
						1370	5700K				
UP-DL98B-4-13W	AC100-277V	13W	≥0.9	60°	No	1270	3000K	≤19	50,000h	≥80	Ø145*82mm cutout 125-135mm
						1400	4000K				
						1370	5000K				
						1330	5700K				
UP-DL98B-4-13W-D	AC200-240V	13W	≥0.9	60°	Yes	1250	3000K	≤19	50,000h	≥80	Ø145*82mm cutout 125-135mm
						1380	4000K				
						1340	5000K				
						1300	5700K				

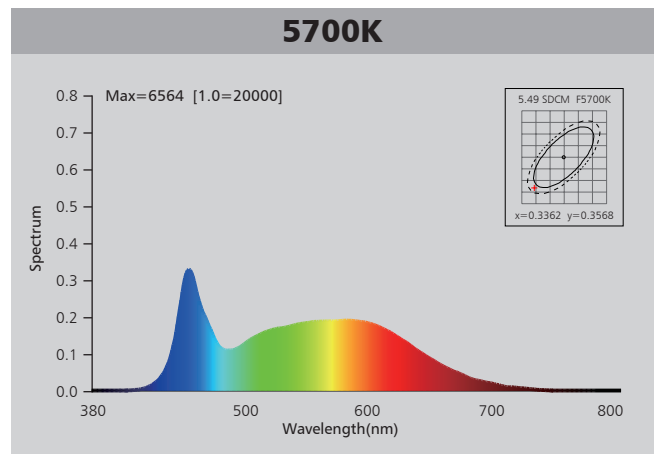
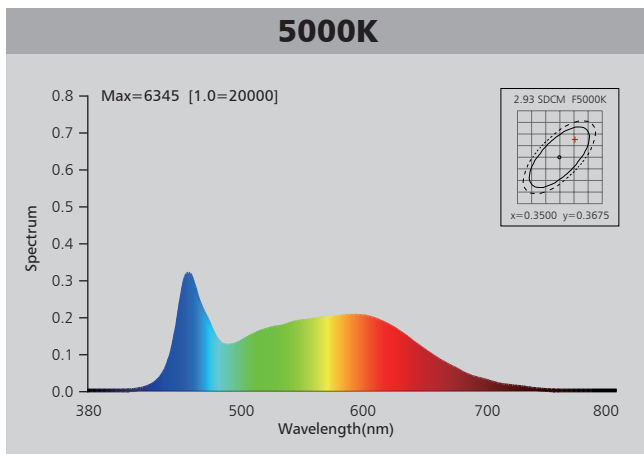
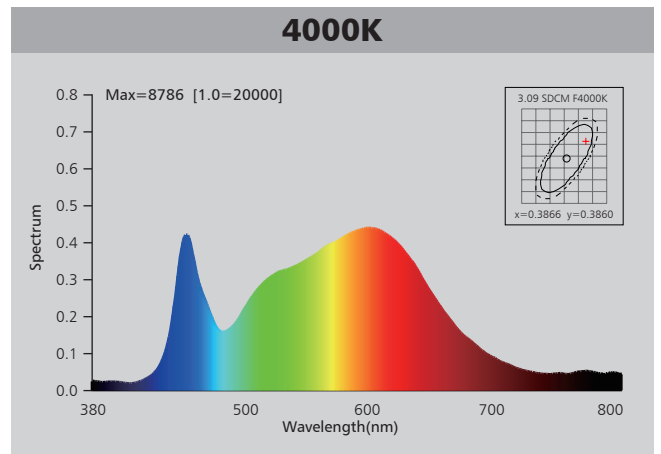
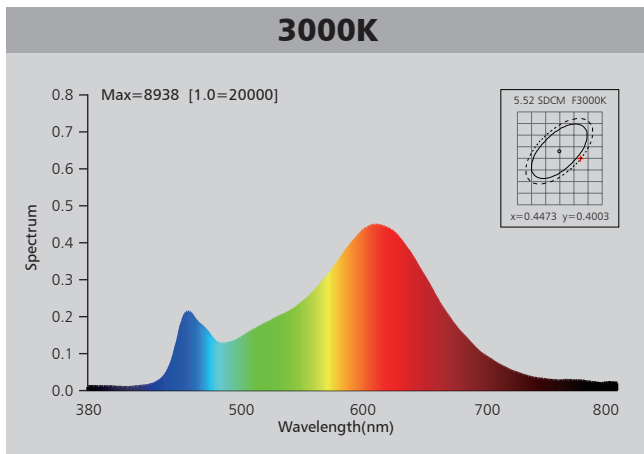
## Driver data Sheet

Driver data	Dim	Non dim
Input rated Voltage	AC230V	AC100-277V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC90-305V
Efficiency	≥83%	≥86%
Total load Wattage	13W±1W	13W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.08A	≤0.15A
Full load output Voltage	DC65-75V	DC65-75V
Rated output current	150mA	180mA
Output current range	150mA±5%	180mA±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	≤20% @ 230V	≤20% @ 230V
Withstand voltage	—	—

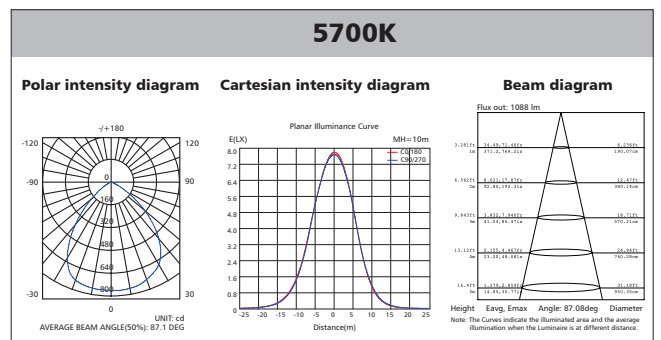
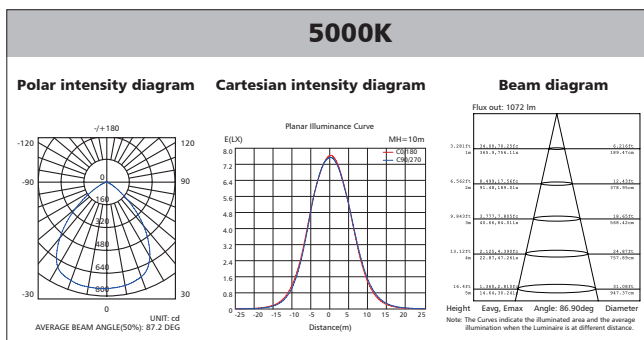
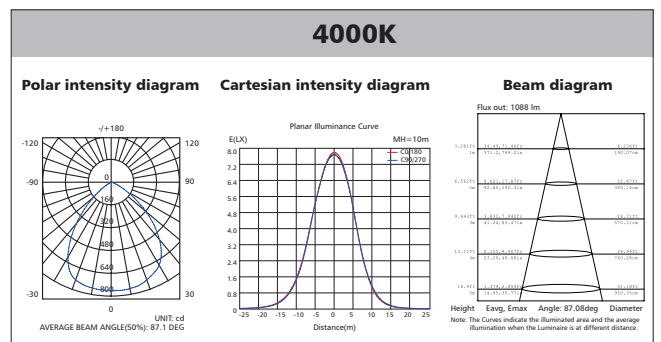
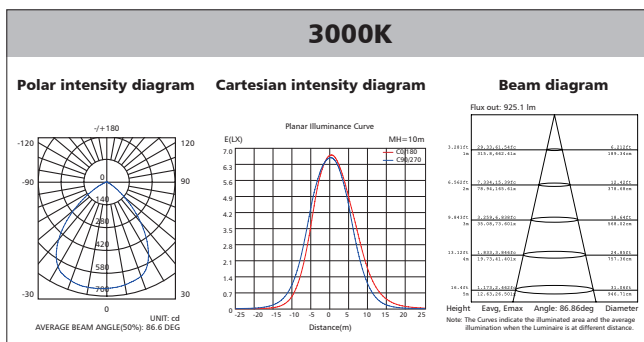
## Fixture Compatibility

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

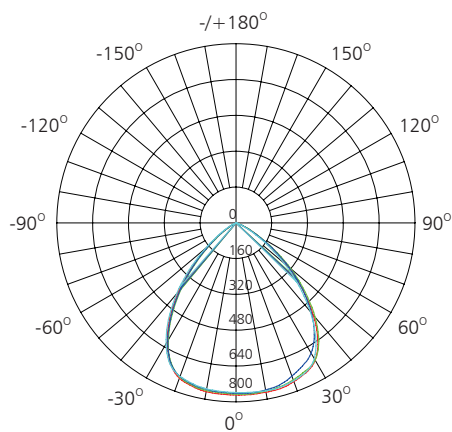
# Spectral Distribution



# Photometric Diagram



## Polar Diagram Comparison



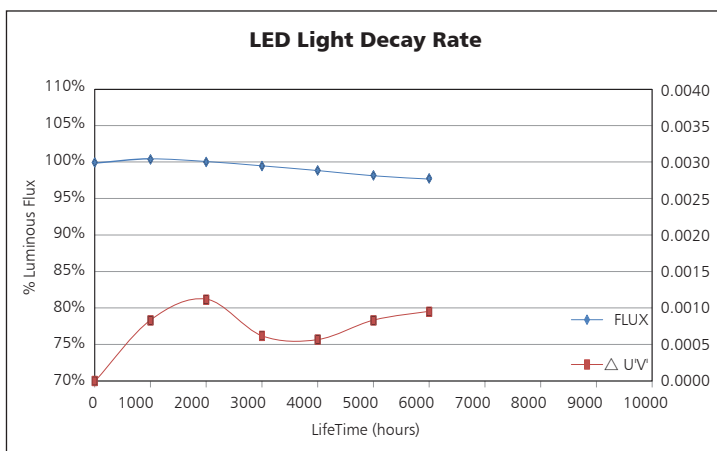
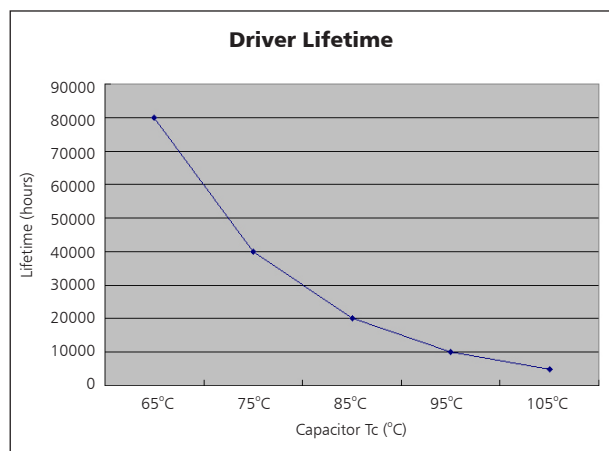
UNIT: cd

- C0/180, 87.1 deg
- C30/210, 87.2 deg
- C60/240, 87.0 deg
- C90/270, 87.1 deg

AVERAGE BEAM ANGLE (50%): 87.1 DEG

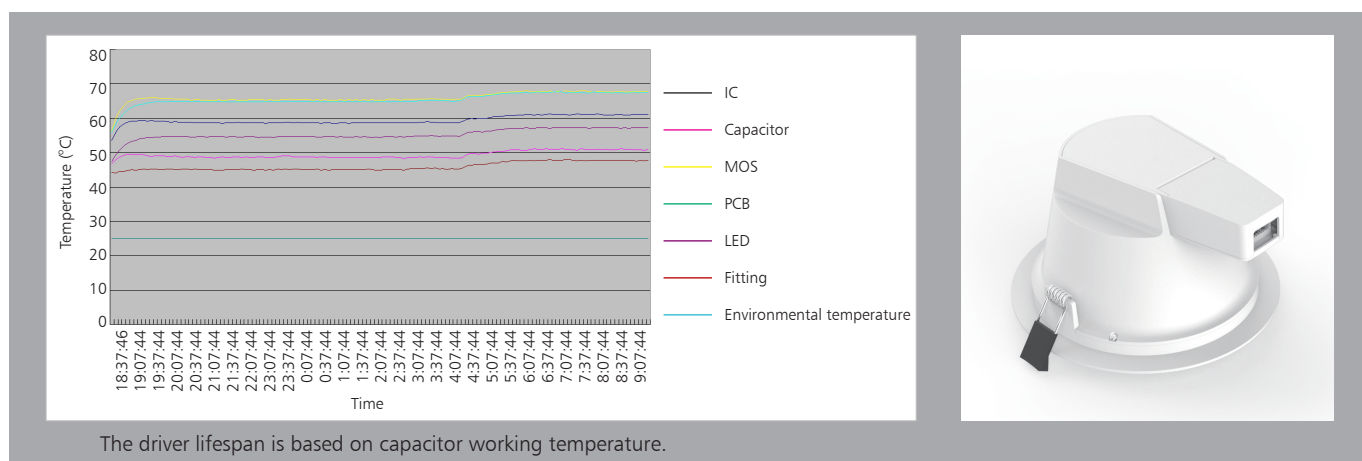


## Driver lifetime & LED light decay rate



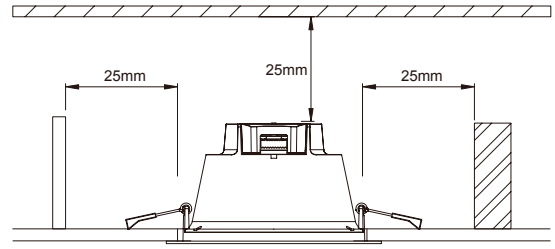
## Temperature

- 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



1. Open a hole according to the cutout size of led downlight.

Figure 1

2. Open the line pressing cover, see Figure 1.

3. Put the main AC wire through line pressing clip, feed the L.N to the fast connection terminal block respectively then compress the line pressing clip.

4. Close the line pressing cover tightly.

5. Hold back spring clips then push downlight into the hole.

6. Make sure the downlight fixed tightly in ceiling, turn on the power.

# Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCs)
Carton	53*36*52	0.28	10	24

	CTNS	Q'TY(PCs)	VOLUME(CBM)
20" standard container	278	6672	28
40" standard container	558	13392	56

