



Technical Application  
LED Downlight  
LUZ-DL54-6-16W-D

# 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
- Dimmable when using triac dimmer
- 90° wide beam angle
- 160-170mm 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.

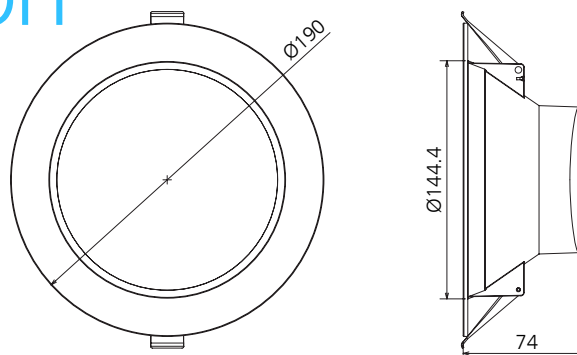
## Certificate



**RoHS**



# Product Information



## Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
LUZ-DL54-6-16W-D	AC230V	16W	≥0.9	1400	90°	3000K	40000h	≥80	Yes	Ø190*74mm cutout 160-170mm
LUZ-DL54-6-16W-D	AC230V	16W	≥0.9	1550	90°	4000K	40000h	≥80	Yes	Ø190*74mm cutout 160-170mm
LUZ-DL54-6-16W-D	AC230V	16W	≥0.9	1520	90°	5000K	40000h	≥80	Yes	Ø190*74mm cutout 160-170mm
LUZ-DL54-6-16W-D	AC230V	16W	≥0.9	1530	90°	5700K	40000h	≥80	Yes	Ø190*74mm cutout 160-170mm

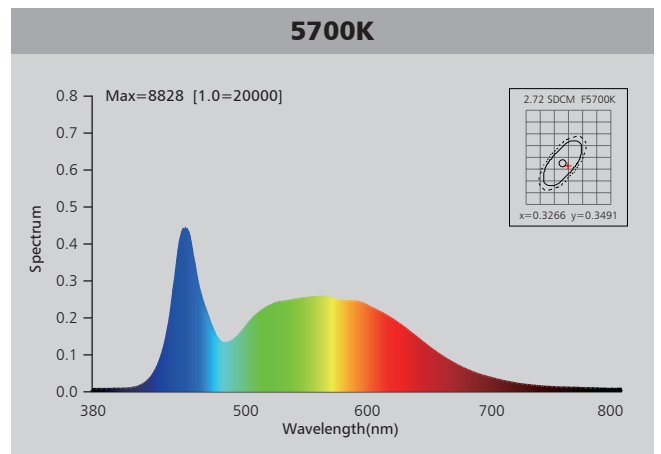
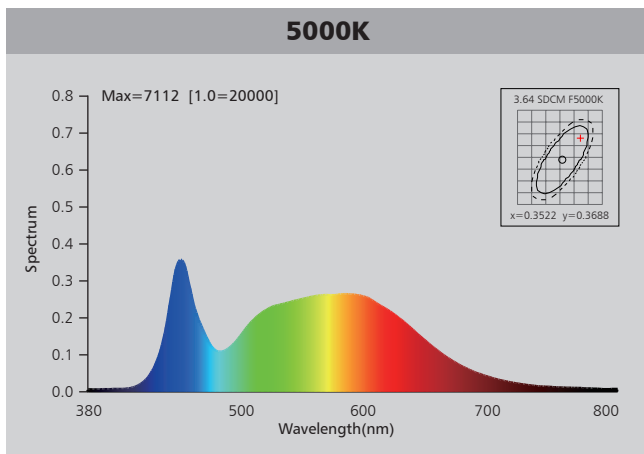
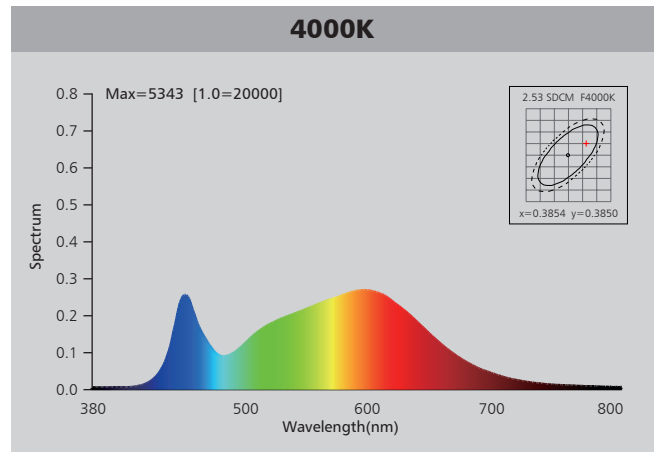
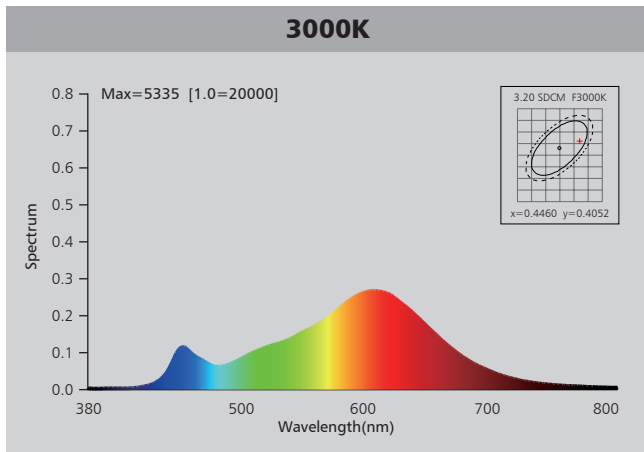
## Driver data Sheet

Driver data	DIM
Input rated Voltage	AC230V
Frequency	50Hz
Input Voltage	AC200-240V
Efficiency	≥85%
Total load Wattage	16W±1W
Power Factor	≥0.9
Rated input current	≤0.09A
Full load output Voltage	65-78V
Rated output current	180mA
Output current range	180mA±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

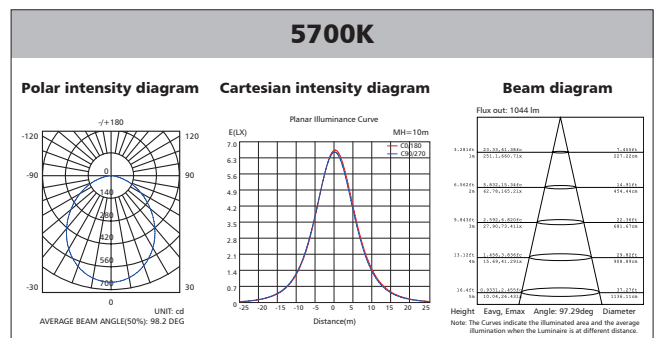
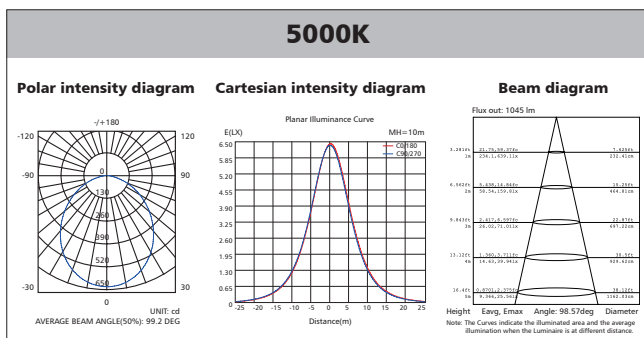
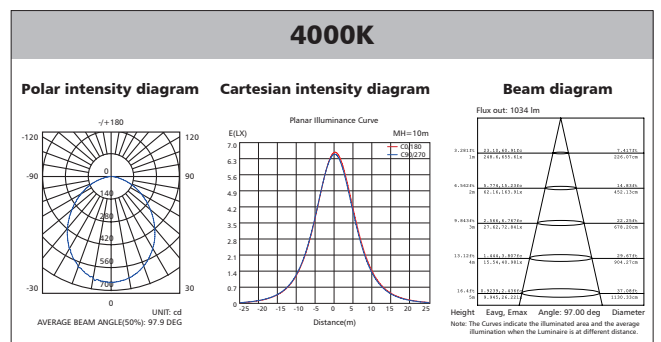
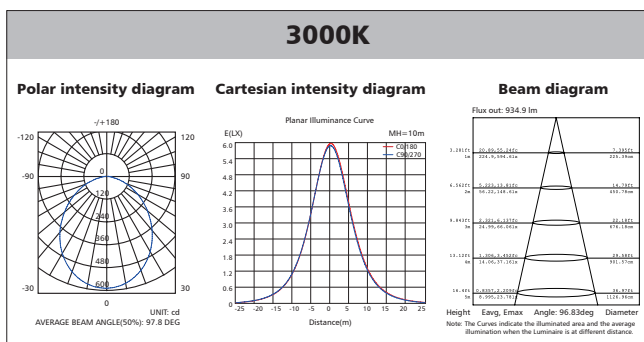
## Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
16W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

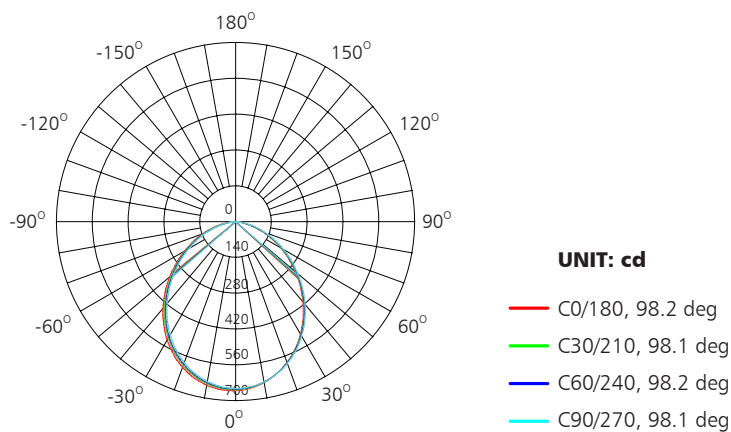
# Spectral Distribution



# Photometric Diagram



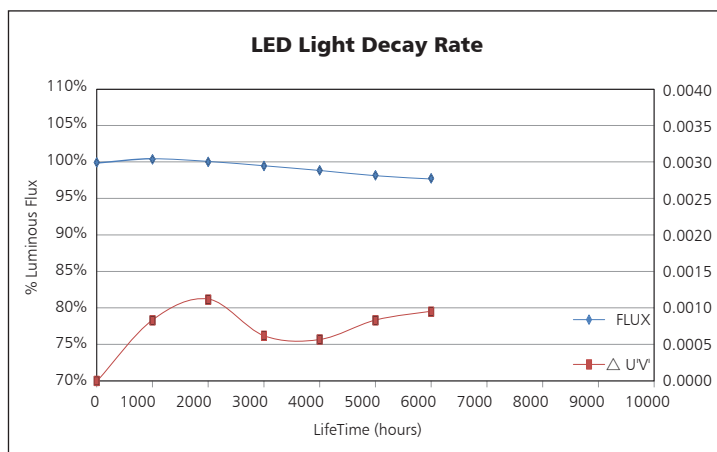
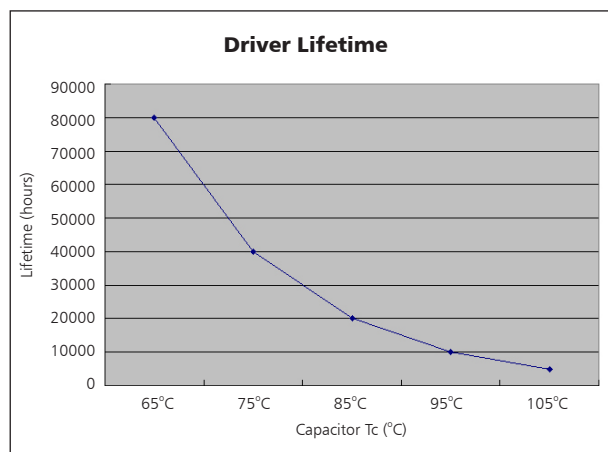
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 98.2DEG

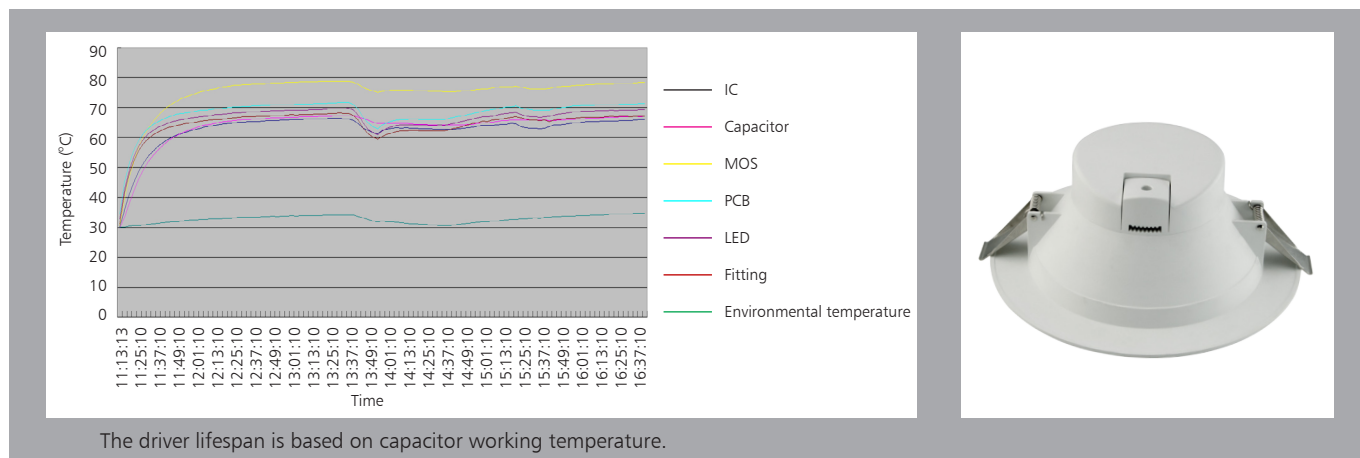


## Driver lifetime & LED light decay rate



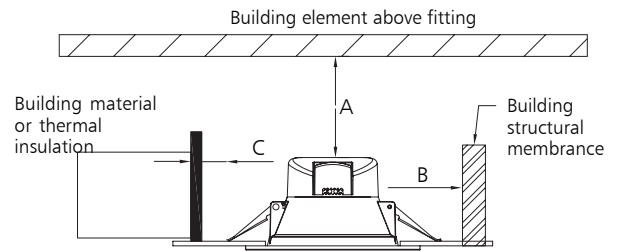
## Temperature

- 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



# 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><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	62*42*44	0.51	16.3	30

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	242	7260	28
40" standard container	484	14520	56

