Up-shine® Lighting

Technical Application Guide for UP-SHINE LED Anti glare Downlight

UP-DL83-6-25W

Introduction

DL83 New Design LED Downlight is a perfect combination of high lumen and anti-glare performance for Australian and European market. The lamp adopts high efficiency SMD2835 led chip, which makes light efficiency reach 90-100lm/w, much higher than traditional downlight. The diffuser adopts anti glare PMMA of which glaze surface inwards and the diamond surface outwards to create the most comfortable lighting environment. The heat sink adopts cold forging treatment AL1070 pure aluminum with excellent heat dissipation performance and very light. Meanwhile, oxidation surface treatment keeps the heat sink surface smooth and anti-corrosive for a long time, besides the downlight equips with high efficiency external led driver: PF>0.9, THD<20%, extending greatly the life span of downlight. The DL83 whole series include 3 inch-13w, 6 inch-25w and 8 inch-35w, dimmable and non-dimmable functions for optional, can perfectly match the most of triac dimmers in the market.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- 60° wide beam angle
- Ø160-180mm cutout
- CCT: 3000K 4000K
  5000K 5700K
- Adjustable and rotary
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

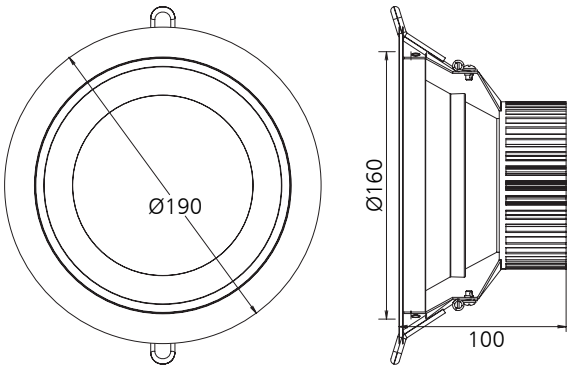
- IP20 for indoor use only
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

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

Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL83-6-25W	AC230V	25W	≥0.9	2380	60°	3000K	40000h	≥80	No	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W	AC230V	25W	≥0.9	2620	60°	4000K	40000h	≥80	No	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W	AC230V	25W	≥0.9	2500	60°	5000K	40000h	≥80	No	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W	AC230V	25W	≥0.9	2480	60°	5700K	40000h	≥80	No	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W-D	AC230V	25W	≥0.9	2330	60°	3000K	40000h	≥80	Yes	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W-D	AC230V	25W	≥0.9	2520	60°	4000K	40000h	≥80	Yes	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W-D	AC230V	25W	≥0.9	2400	60°	5000K	40000h	≥80	Yes	Ø190*100mm cutout 160-180mm
UP-DL83-6-25W-D	AC230V	25W	≥0.9	2380	60°	5700K	40000h	≥80	Yes	Ø190*100mm cutout 160-180mm

Driver data Sheet

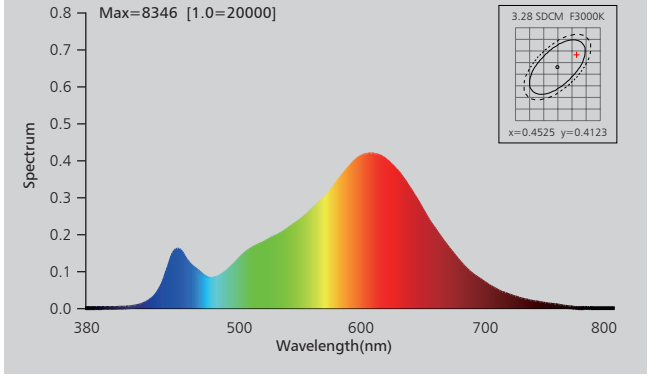
Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥85%	≥85%
Total load Wattage	25W±5%	25W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.14A	≤0.14A
Full load output Voltage	DC23-40V	DC24-40V
Rated output current	700mA	700mA
Output current range	700mA±5%	700mA±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	≤18%	≤18%
Withstand voltage	AC3750V	AC3750V

Fixture Compatibility

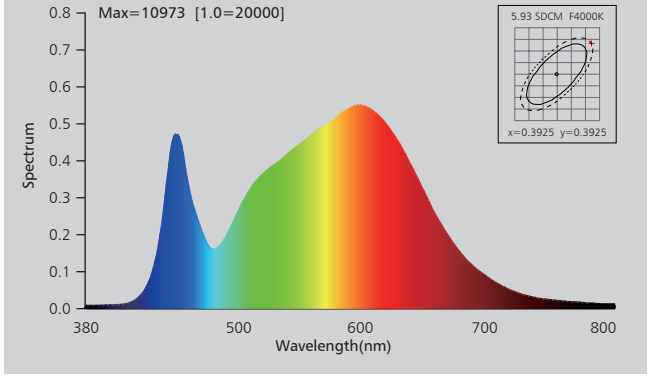
Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
25W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

Spectral Distribution

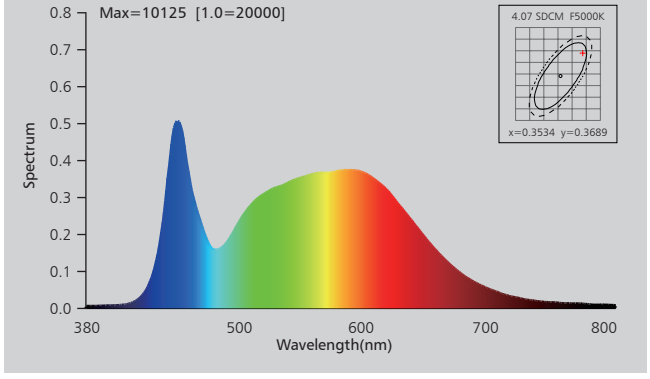
3000K



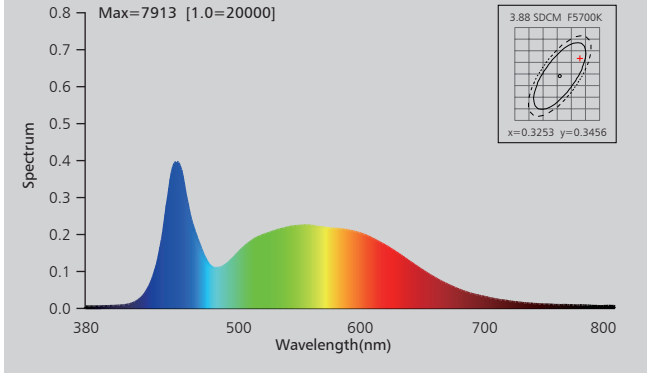
4000K



5000K

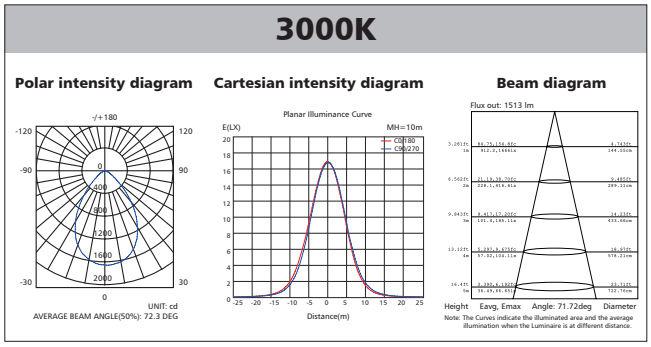


5700K

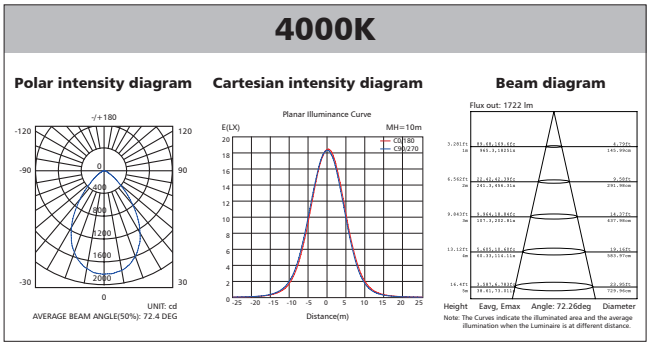


Photometric Diagram

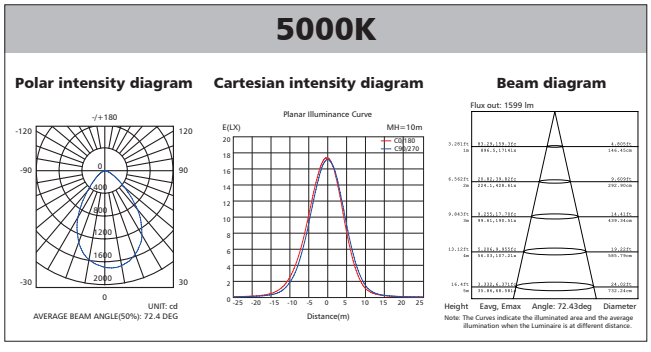
3000K



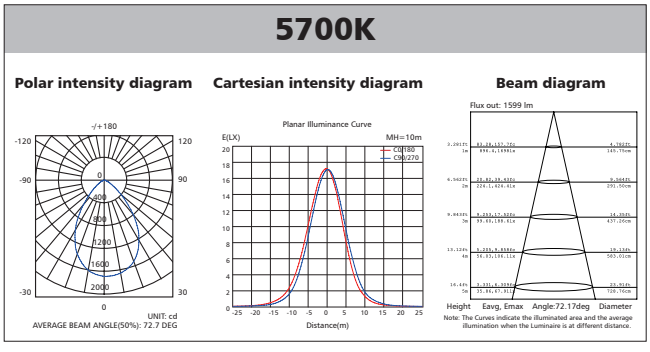
4000K



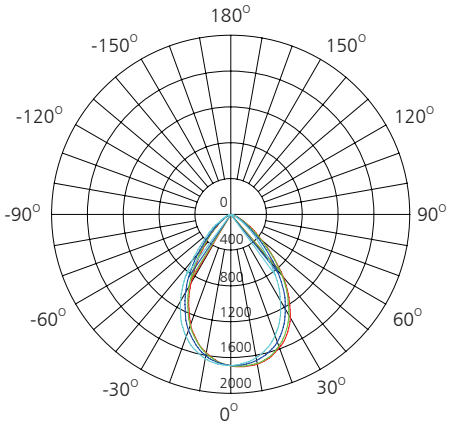
5000K



5700K



Polar Diagram Comparison

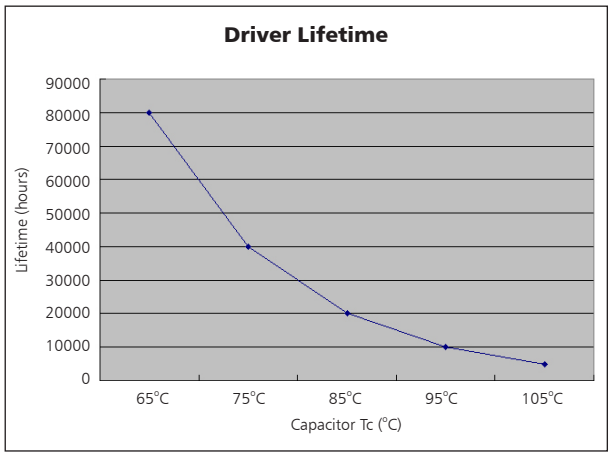


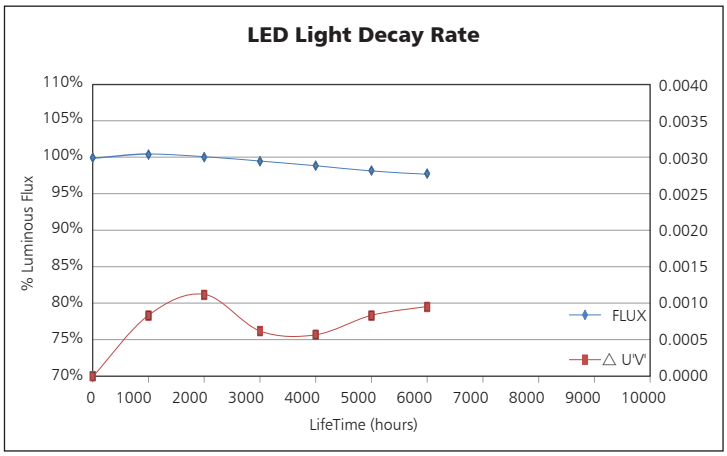
UNIT: cd

- C0/180, 72.2 deg
- C30/210, 72.8 deg
- C60/240, 73.0 deg
- C90/270, 72.8 deg

AVERAGE BEAM ANGLE (50%): 72.7DEG

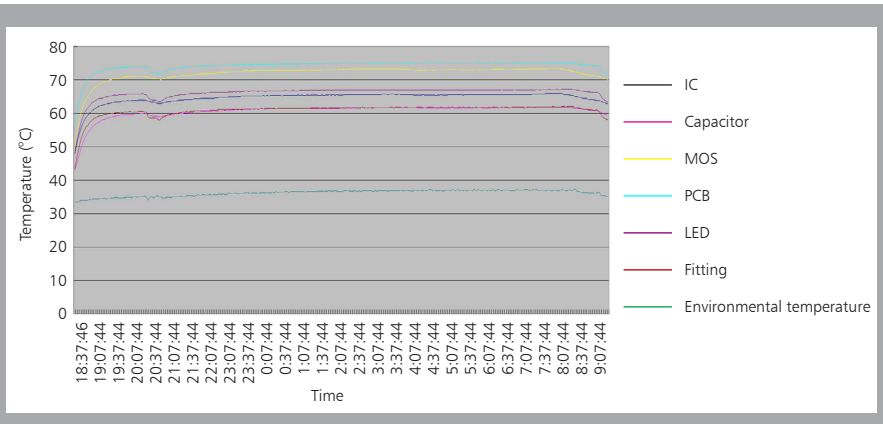
Driver lifetime & LED light decay rate





Temperature

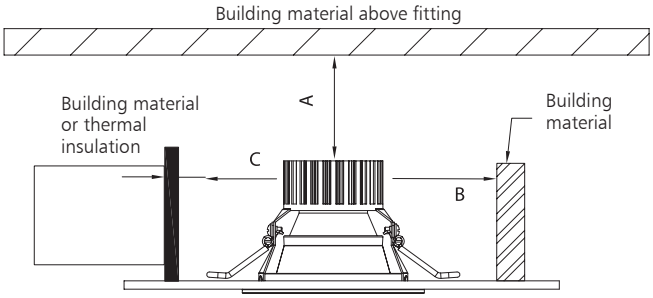
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C

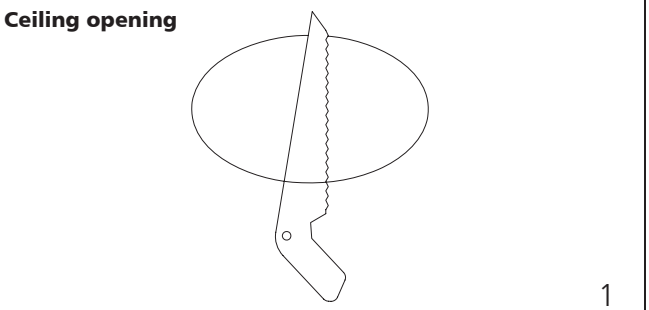


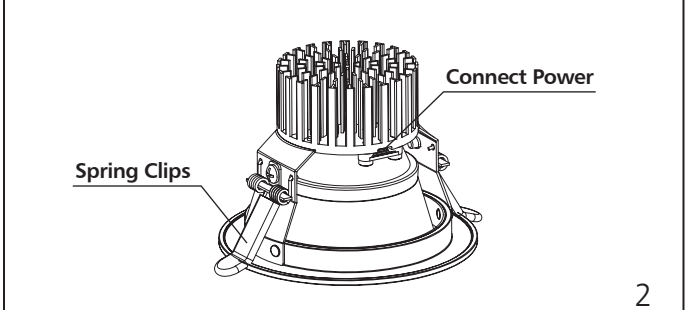
The driver lifespan is based on capacitor working temperature.

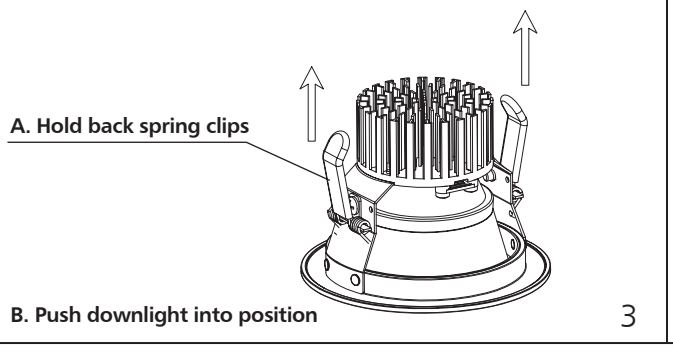
Installation

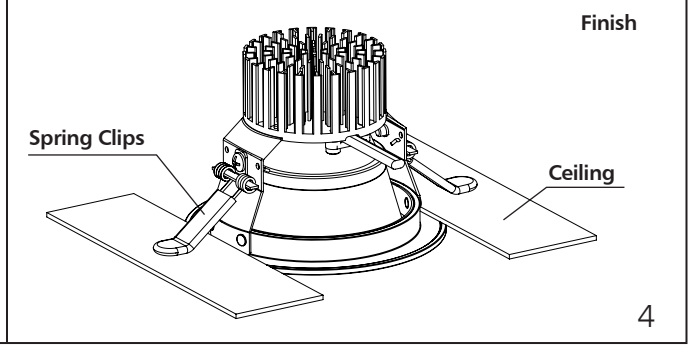
Install requirements	
A-gap above the fitting	25mm
B-gap to the building material	25mm
C-gap to the thermal insulation	25mm







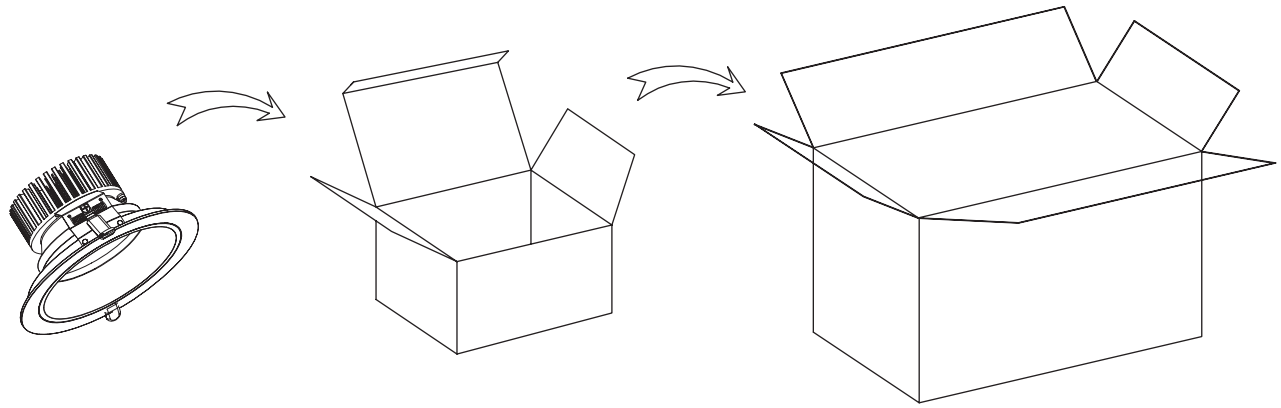




Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	45*45*37	0.76	10.5	12

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	368	4416	28
40" standard container	736	8832	56



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