



UPSHINE®



Technical Application
Guide for UP-SHINE
LED Downlight
UP-DL22-6-45W

Introduction



Up-shine COB downlight is unique designed with reflector and Citizen COB high power LED chip. ADC12 Aluminum profile provides excellent thermal dissipation. Short heatsink designed for any ceiling installations. Isolated driver solution both in dimmable and non-dimmable version achieves great dimming compatibility with worldwide brand dimmers.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Triac dim, 0-10V dim, DALI dim
- 36°/60° wide beam angle
- 160-170mm cutout
- CCT: 2700K 3000K
4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP20/IP44 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

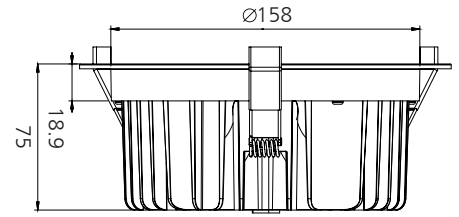
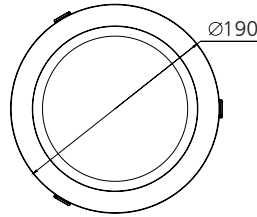
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

Certificate

CE RoHS SAA



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL22-6-45W	AC230V	45W	≥0.9	4050	36°/60°	2700K	40000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W	AC230V	45W	≥0.9	4410	36°/60°	3000K	40000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W	AC230V	45W	≥0.9	4725	36°/60°	4000K	40000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W	AC230V	45W	≥0.9	4770	36°/60°	5000K	40000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W-D	AC230V	45W	≥0.9	3870	36°/60°	2700K	40000h	≥80	Yes	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W-D	AC230V	45W	≥0.9	4185	36°/60°	3000K	40000h	≥80	Yes	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W-D	AC230V	45W	≥0.9	4500	36°/60°	4000K	40000h	≥80	Yes	Ø190*75mm cutout 160-170mm
UP-DL22-6-45W-D	AC230V	45W	≥0.9	4545	36°/60°	5000K	40000h	≥80	Yes	Ø190*75mm cutout 160-170mm

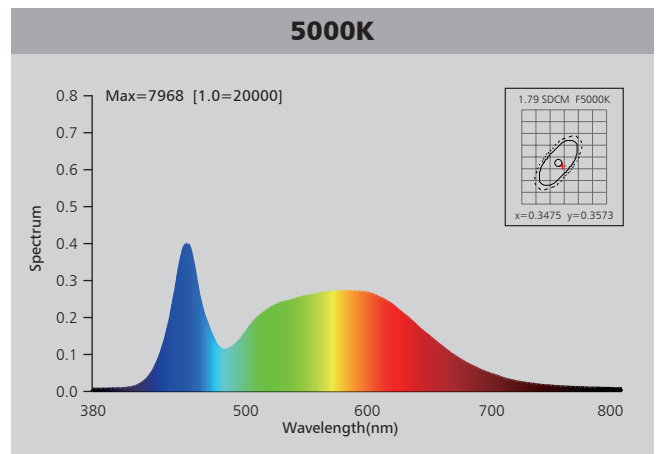
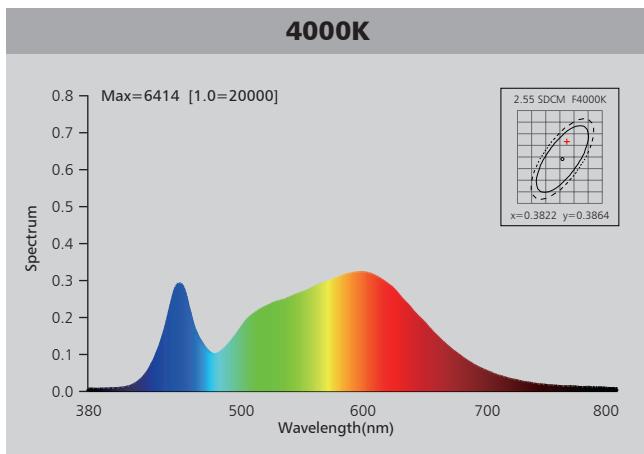
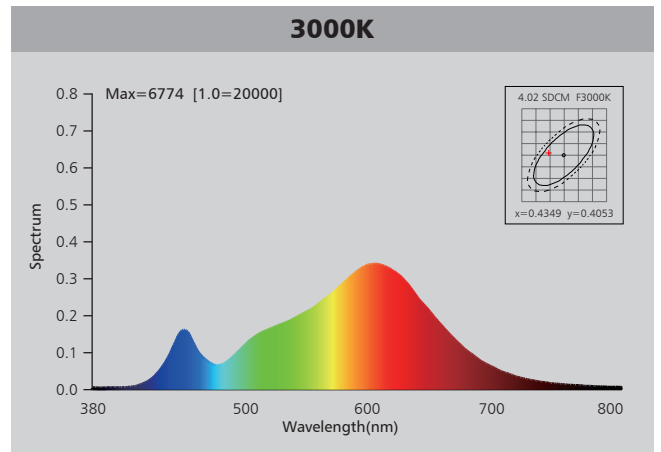
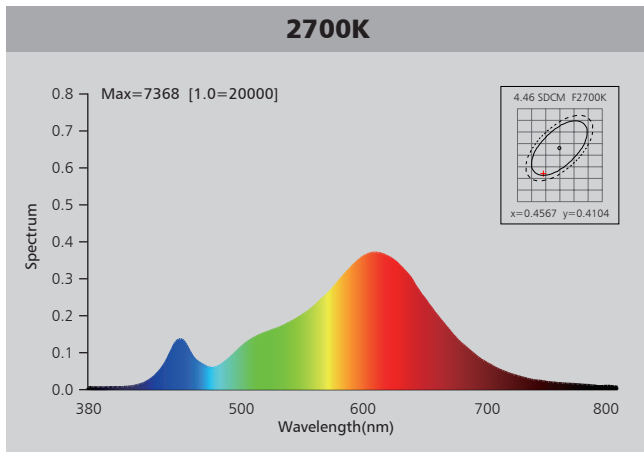
Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥82%	≥87%
Total load Wattage	45W±5%	45W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.25A	≤0.25A
Full load output Voltage	DC28-40V	DC27-40V
Rated output current	1050mA	1050mA
Output current range	1050mA±5%	1050mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	—
Dimmer	Triac dimmers	—
THD	—	<18%
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
Withstand voltage	AC3750V	AC3750V

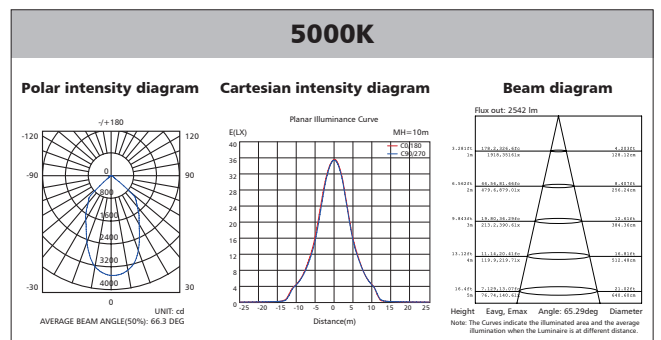
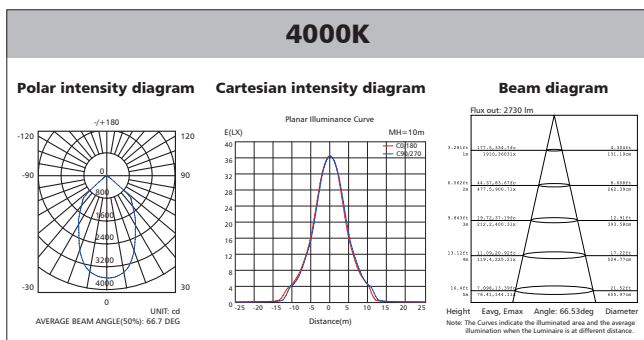
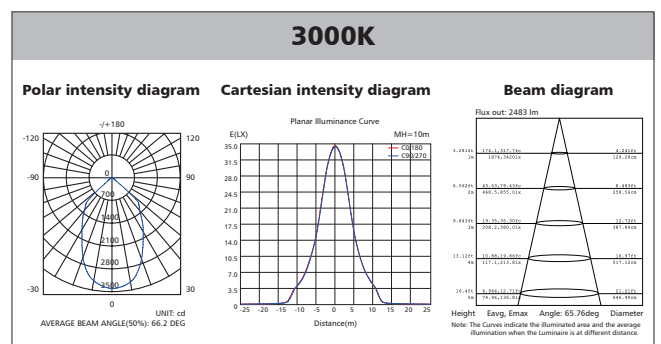
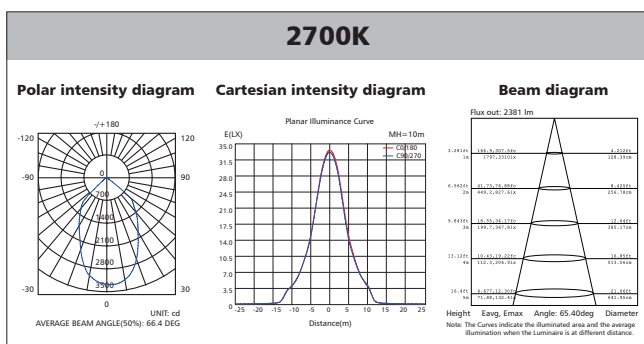
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
45W	II	IP20/IP44	-20°C~45°C	0~90%	-20°C~65°C

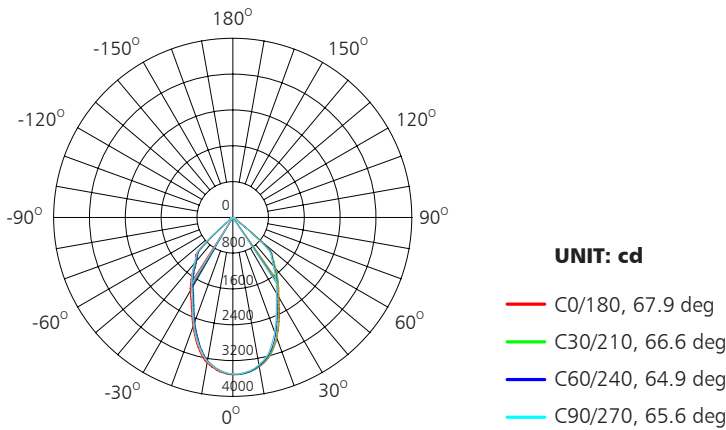
Spectral Distribution



Photometric Diagram



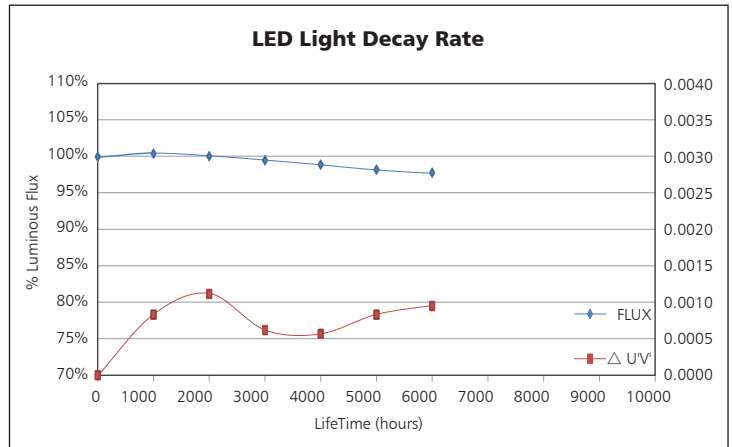
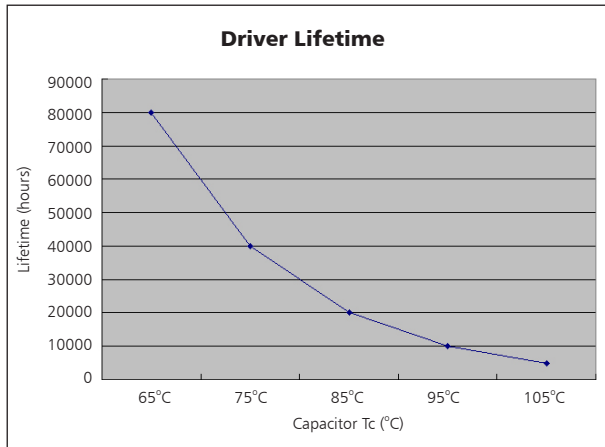
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 66.3DEG

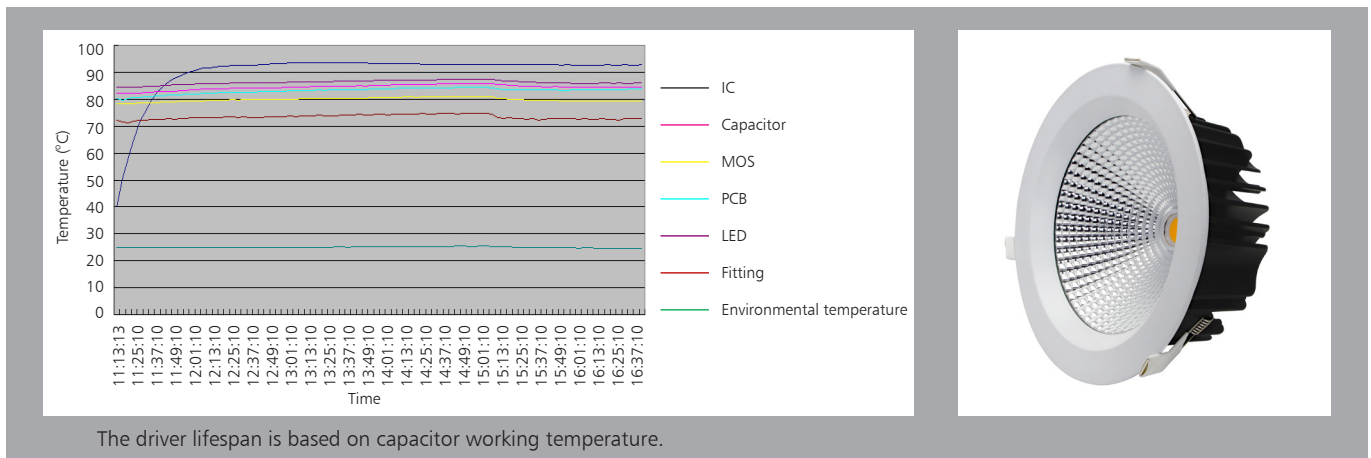


Driver lifetime & LED light decay rate



Temperature

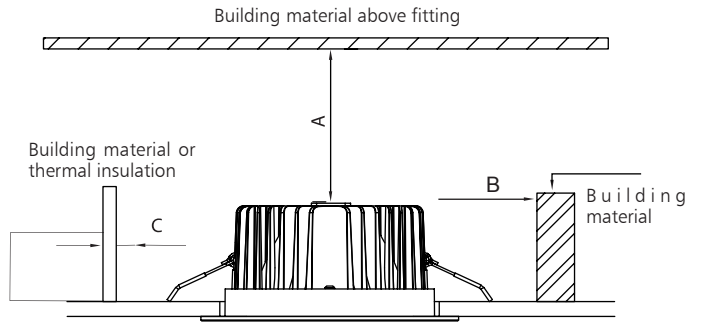
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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>Ceiling Opening</p> <p style="text-align: right;">1</p>	<p>Connect Power supply</p> <p style="text-align: right;">2</p>
<p>A. Hold back spring clips</p> <p>B. Push downlight into position</p> <p style="text-align: right;">3</p>	<p>Finish</p> <p style="text-align: right;">4</p>

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	66*46*20.5	1.42	18	12

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	440	5280	28
40" standard container	880	10560	56

