



UPSHINE®



Technical Application Guide for UP-SHINE LED Downlight

UP-CL59-6-25W-C3

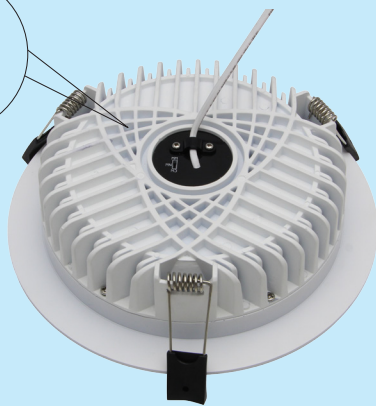
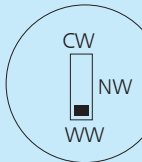
UP-CL59-6-25W-P3



Introduction



Slide switch for color selection



Creating fantastic atmosphere by flexible CCT changing between warm white, natural white and day light, the color changing downlights are controlled by slide switch, which aims at reducing your stock by different color temperature and enables end users to choose suitable color for different applications freely. Once a color has been selected, you can also dim by triac dimmers, it is compatible with worldwide famous dimmers. 8~100% dimming range, smooth dimming effect and brightness changing, no flickering. Your ideal choice!

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Triac dim
- 90° wide beam angle
- 160-170mm cutout
- CCT: 2700K 4000K 5700K
- 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

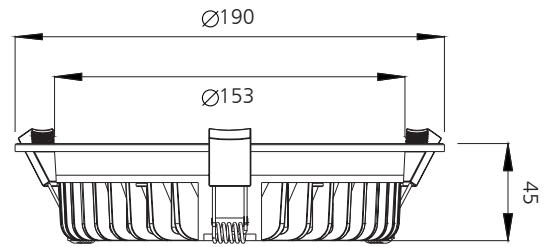
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

Certificate

CE RoHS SAA



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	CCT	Beam angle	Lifespan	CRI	Dimmable	Dimension
UP-CL59-6-25W-C3	AC230V	25W	≥0.9	2200	2700K	90°	40,000h	≥80	No	Ø190*45mm cutout 160-170mm
				2630	4000K					
				2280	5700K					
UP-CL59-6-25W-P3	AC230V	25W	≥0.9	2130	2700K	90°	40,000h	≥80	Yes	Ø190*45mm cutout 160-170mm
				2530	4000K					
				2230	5700K					

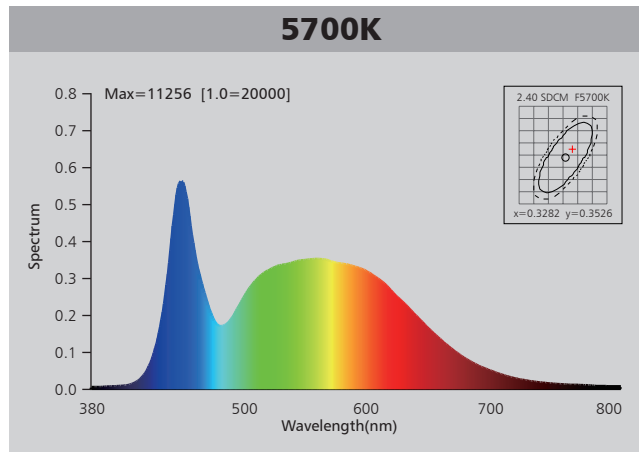
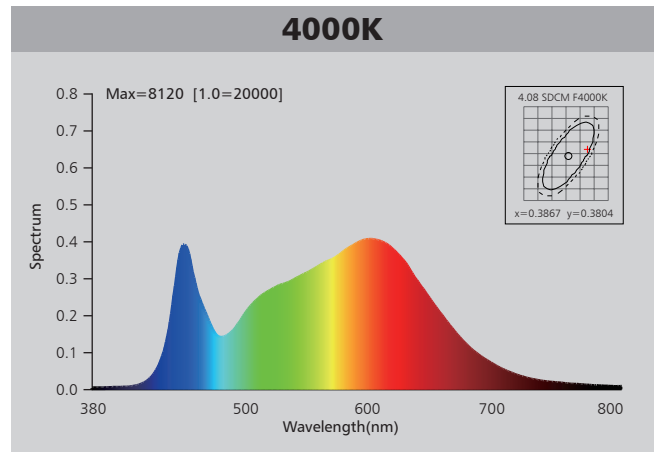
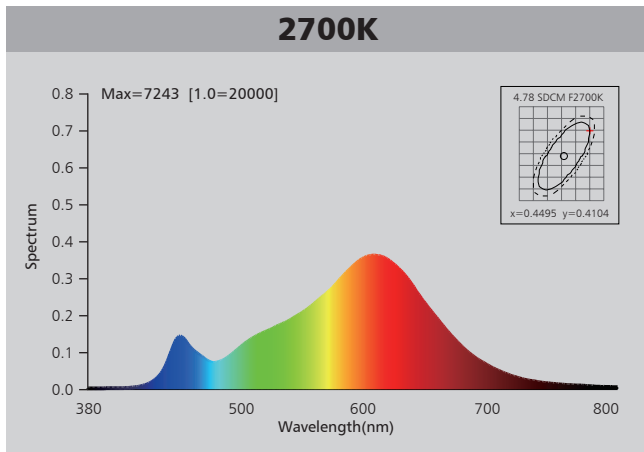
Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥85%	≥88%
Total load Wattage	25W±5%	25W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.15A	≤0.2A
Full load output Voltage	DC29-33V	DC27-40V
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	≤10%	≤10%
Withstand voltage	AC3000V	AC3000V

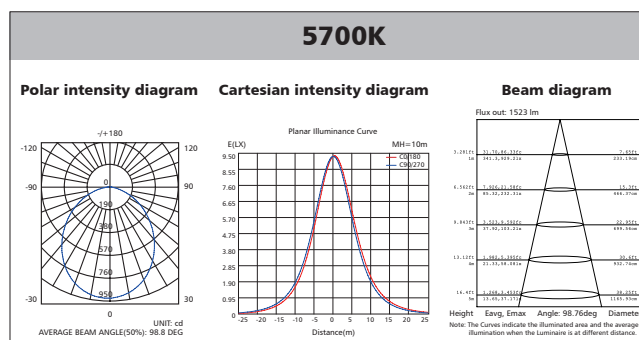
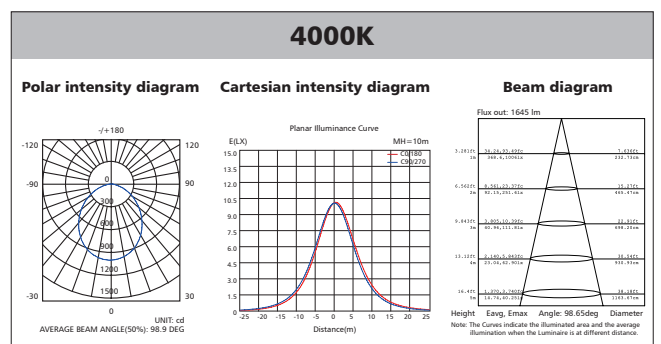
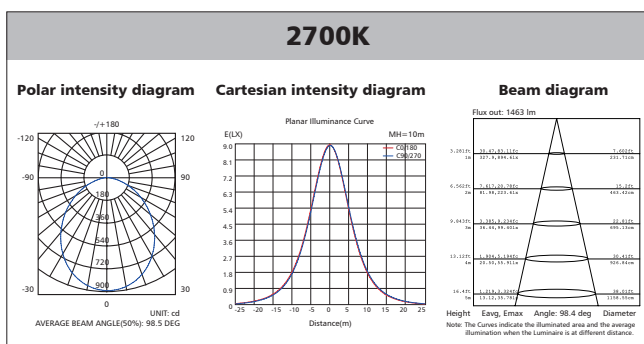
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
25W	II	IP20 / IP44	-20°C~45°C	0~90%	-20°C~65°C

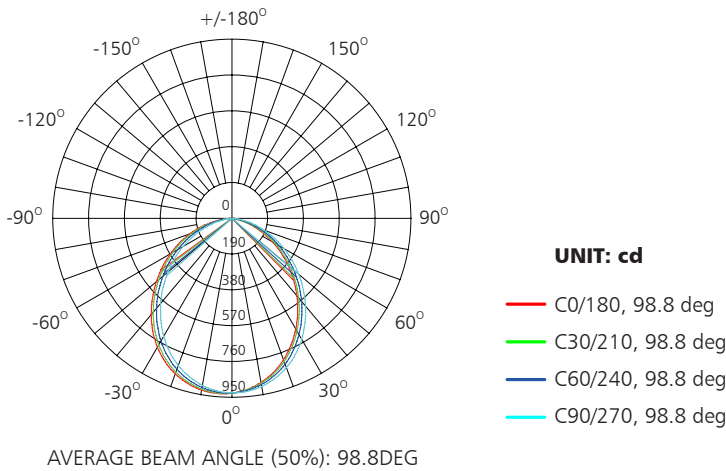
Spectral Distribution



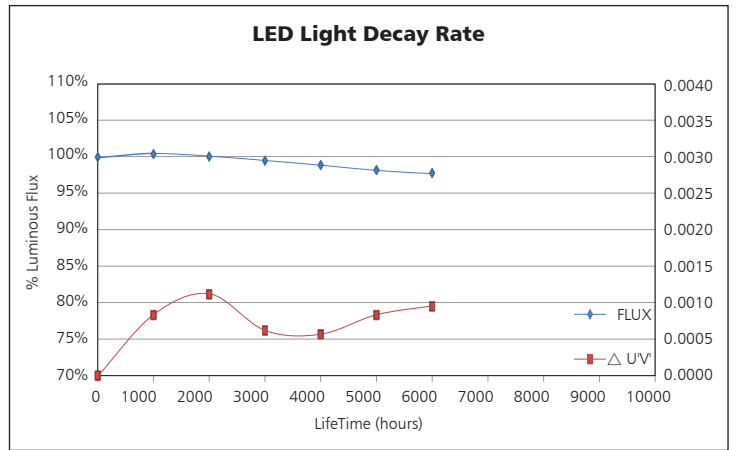
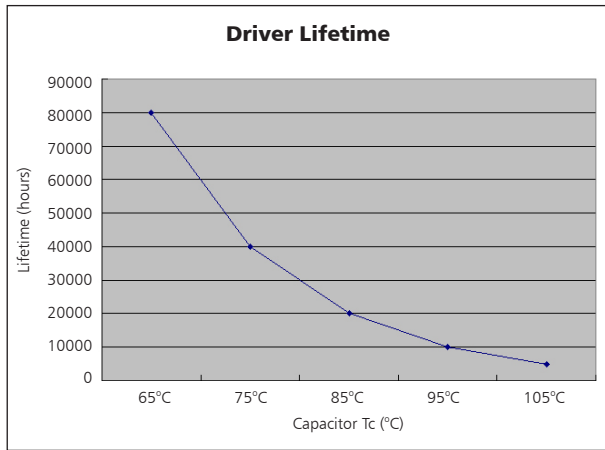
Photometric Diagram



Polar Diagram Comparison



Driver lifetime & LED light decay rate



Temperature

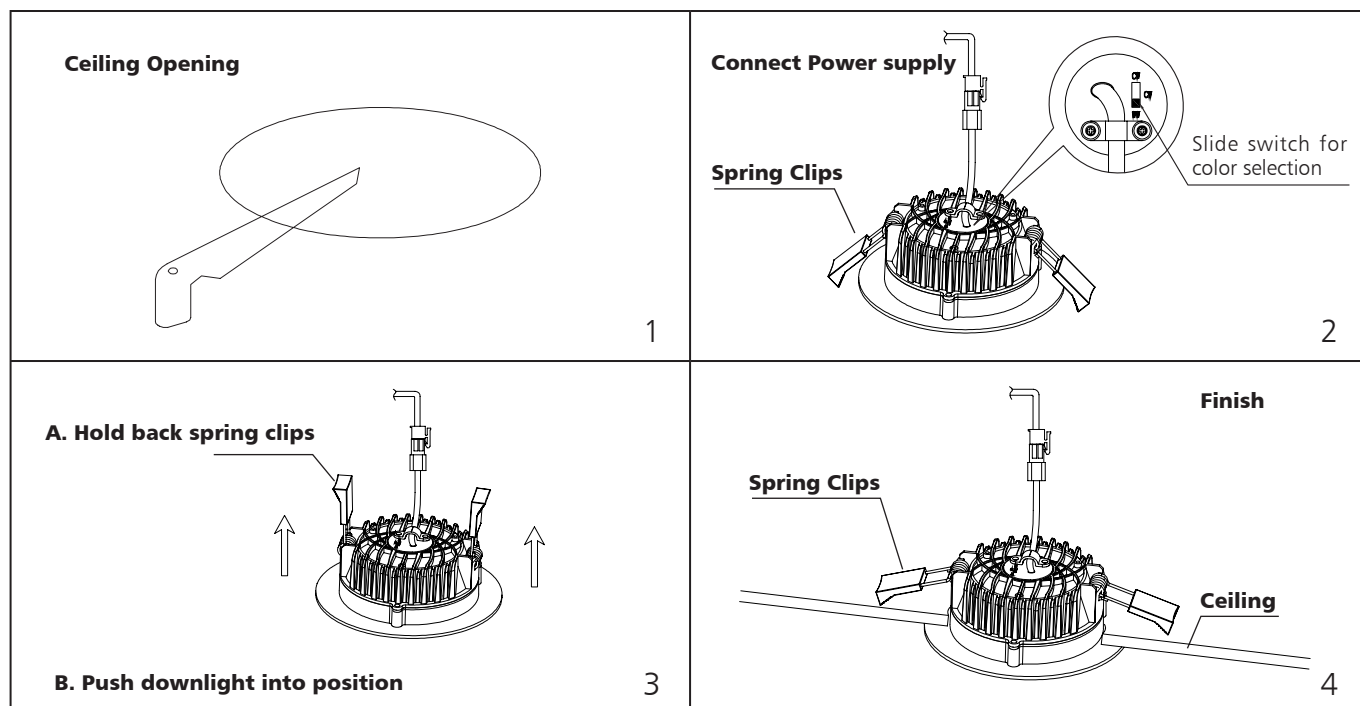
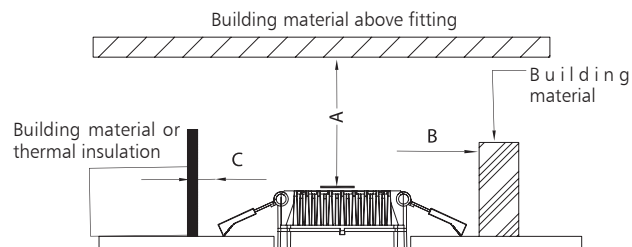
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C

The graph shows that the IC, Capacitor, and MOS temperatures rise quickly and stabilize around 80-90°C, while the LED and Fitting temperatures remain lower, around 70-75°C. The PCB and Environmental temperatures stay near 25°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	46 x 46 x 42	0.825	19	20

	CTNS	Q'TY(PCs)	VOLUME(CBM)
20" standard container	310	6200	28
40" standard container	620	12400	56

