



UPSHINE®



Technical Application
Guide for UP SHINE
LED Downlight
UP-CL81-2.5-7W

Introduction



CL81 Mini downlight is a perfect combination of traditional halogen and its installation fixture. With 70mm standard cutout size.

It shares fashionable design and elegant workmanship, PC diffuser and reflector comes with an integrated design, break tradition of glass diffuser and reflector assembling, maximally reduce potential danger of glass broken.

Outer trim and heatsink also come with an integrated part, aim at increasing thermal dissipation area, front surface is 60 degree rotary with a larger lighting area.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Triac dim
- 15°/24°/38°/60° wide beam angle
- 68-74mm cutout
- CCT: 2700K 3000K
4000K 5000K
- 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

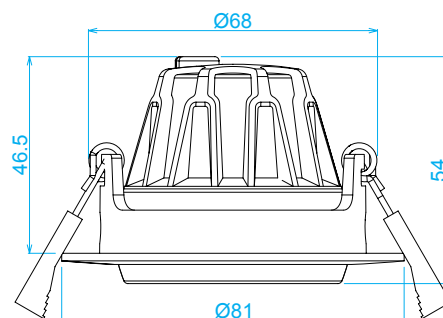
it is suitable for various residential lighting and commercial lighting applications, such as home, hotel, office, basement etc.

Certificate

CE RoHS SAA



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-CL81-2.5-7W	230V	7W	≥0.85	455	15°/24°/38°/60°	2700K	40000h	≥80	No	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W	230V	7W	≥0.85	470	15°/24°/38°/60°	3000K	40000h	≥80	No	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W	230V	7W	≥0.85	530	15°/24°/38°/60°	4000K	40000h	≥80	No	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W	230V	7W	≥0.85	540	15°/24°/38°/60°	5000K	40000h	≥80	No	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W-D	230V	7W	≥0.9	430	15°/24°/38°/60°	2700K	40000h	≥80	Yes	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W-D	230V	7W	≥0.9	440	15°/24°/38°/60°	3000K	40000h	≥80	Yes	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W-D	230V	7W	≥0.9	500	15°/24°/38°/60°	4000K	40000h	≥80	Yes	Ø81*54mm cutout 68-74mm
UP-CL81-2.5-7W-D	230V	7W	≥0.9	510	15°/24°/38°/60°	5000K	40000h	≥80	Yes	Ø81*54mm cutout 68-74mm

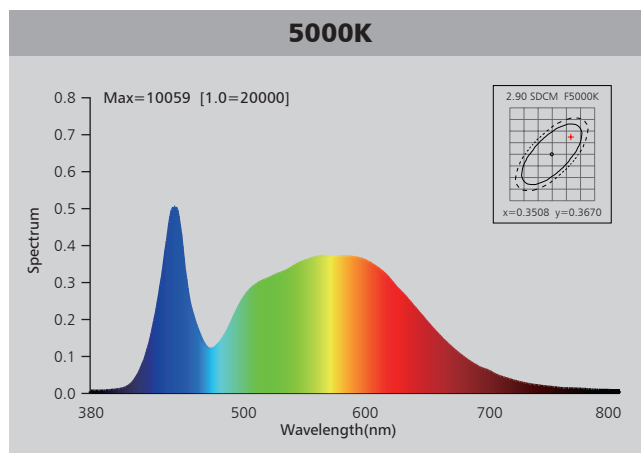
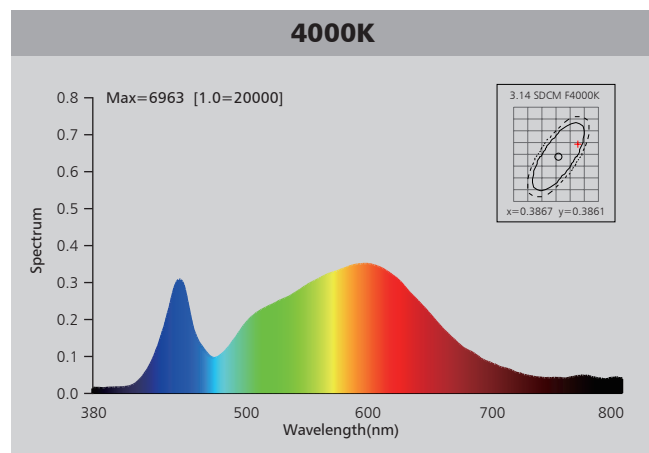
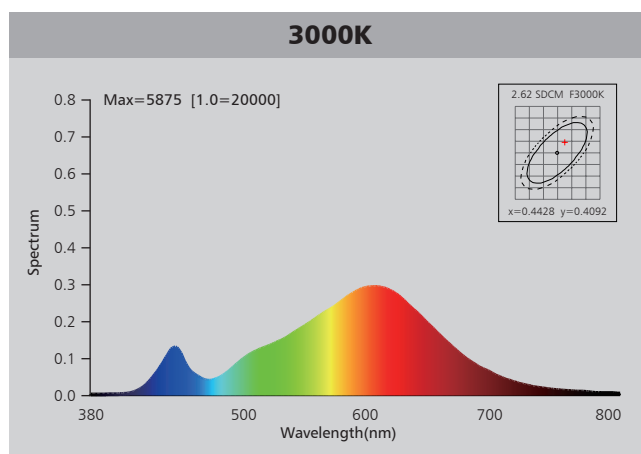
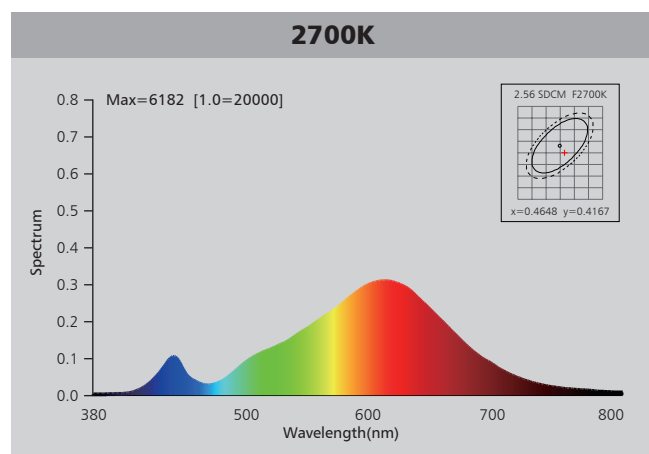
Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥72%	≥80%
Total load Wattage	7W±0.5W	7W±0.5W
Power Factor	≥0.85	≥0.85
Rated input current	≤0.05A	≤0.1A
Full load output Voltage	DC35-40V	DC27-40V
Rated output current	140mA	150mA
Output current range	140mA±5%	150mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	10%-100%	----
Dimmer	Triac dimmers	----
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
THD	≤40%	≤20%
Withstand voltage	AC3750V	AC3750V

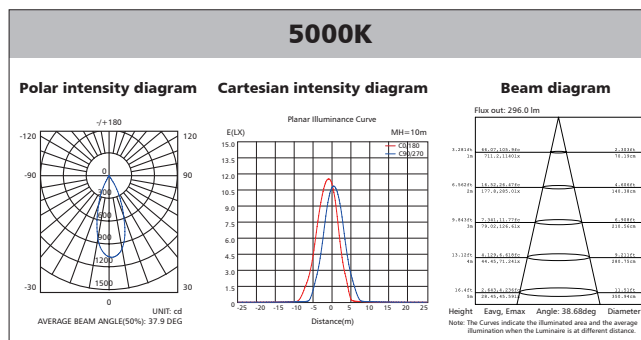
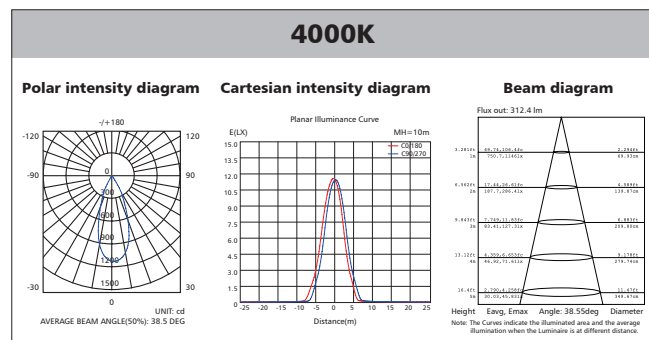
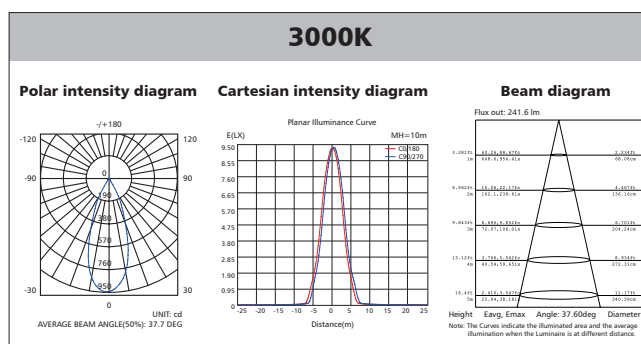
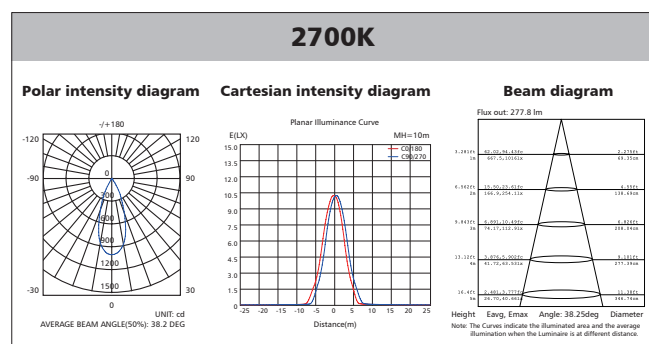
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
7W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

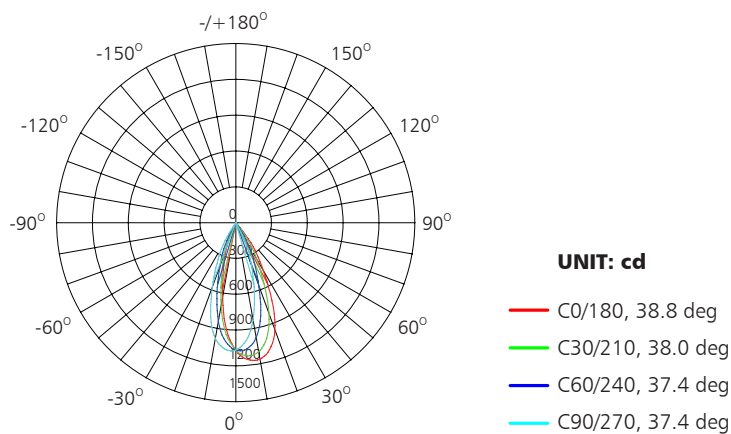
Spectral Distribution



Photometric Diagram



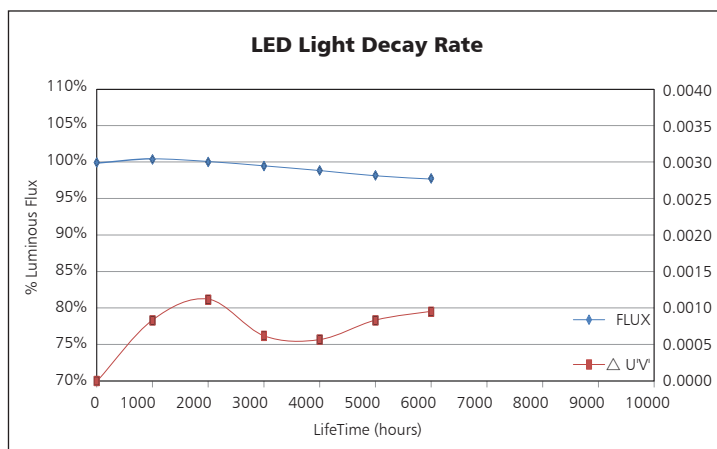
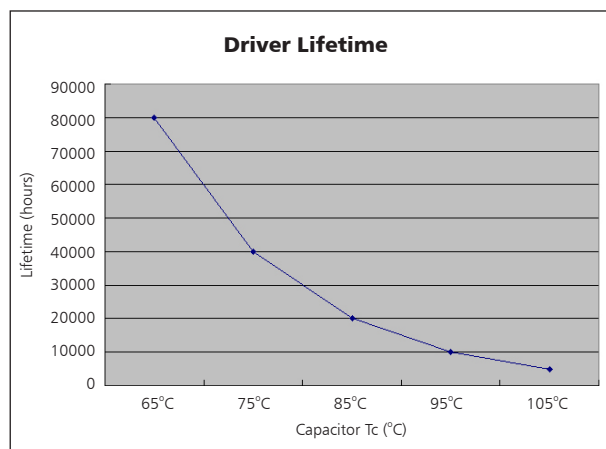
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 37.9 DEG

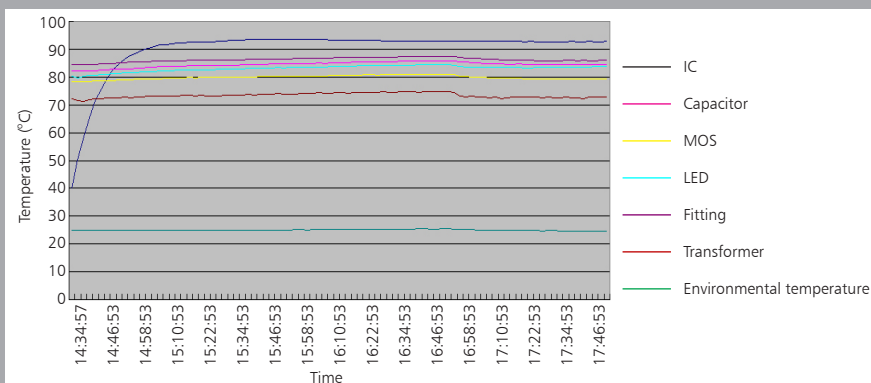


Driver lifetime & LED light decay rate



Temperature

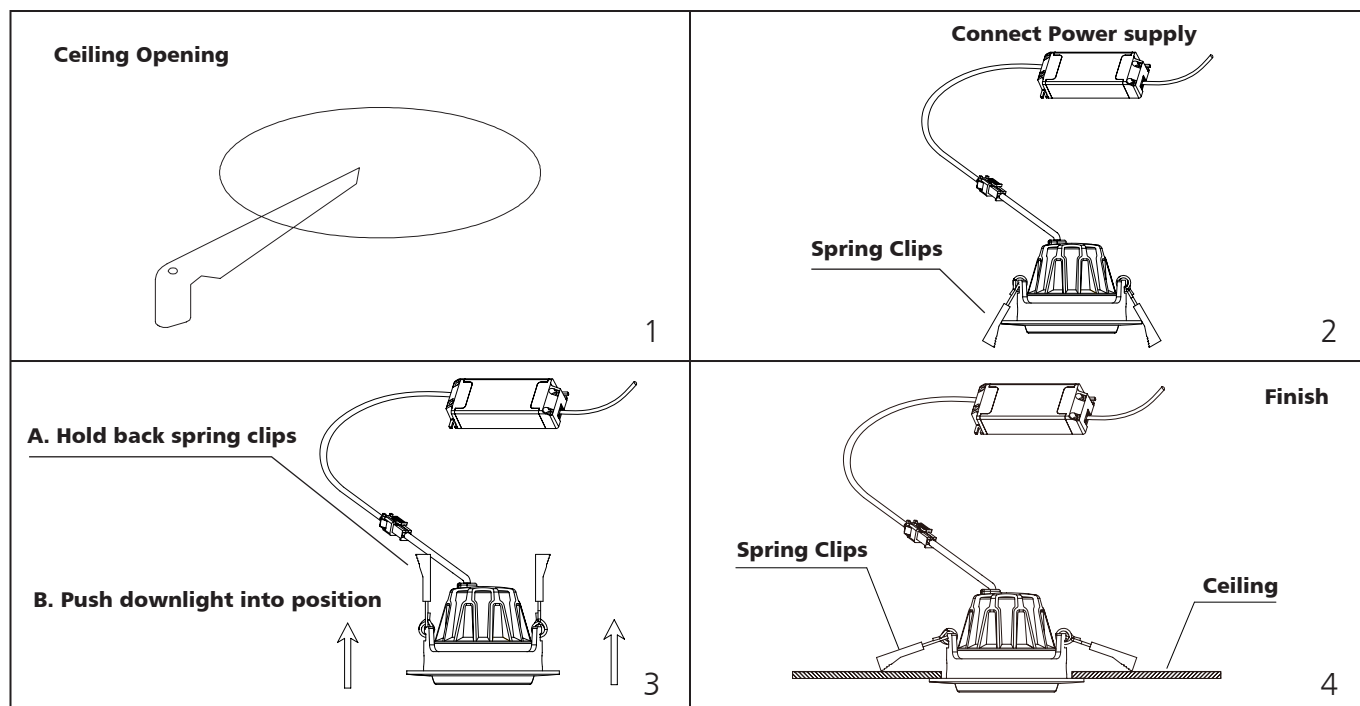
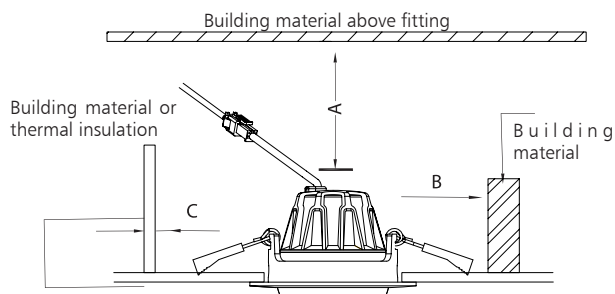
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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*46*29.5	0.22	11.5	48

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	441	21168	28
40" standard container	882	42336	56

