



Up-shine[®] Lighting



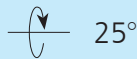
Color
Changeable



Dimmable

Technical Application
Guide for UP SHINE
LED Downlight
UP-CL78-2.5-8W-P

Introduction



Color changeable mini downlight is special designed for European market with standard cutout size. CCT changes from 2000K~3000K by triac dimmers, wattage varies synchronously with color changing. 24°/36°/60° beam angle provided, applicable for various lighting effect. Smart optical design with combination of COB LED and PC reflector creates the most comfortable lighting environment. Waterproof structural design, IP54 protection grade, ideally for damp locations. 25 degree flexible rotary head makes installation easier and better.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Triac dim
- 24°/36°/60° wide beam angle
- 68-74mm cutout
- CCT: 2000K~2800K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP54 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.

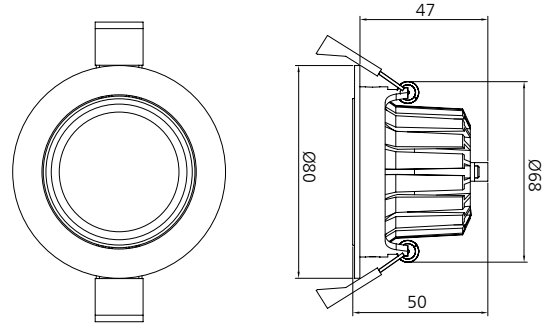
Certificate



RoHS



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-CL78-2.5-8W-P	230V	8W	≥0.85	400	24°/36°/60°	2000-2800K	40000h	≥80	No	Ø80*50mm cutout 68-74mm

Driver data Sheet

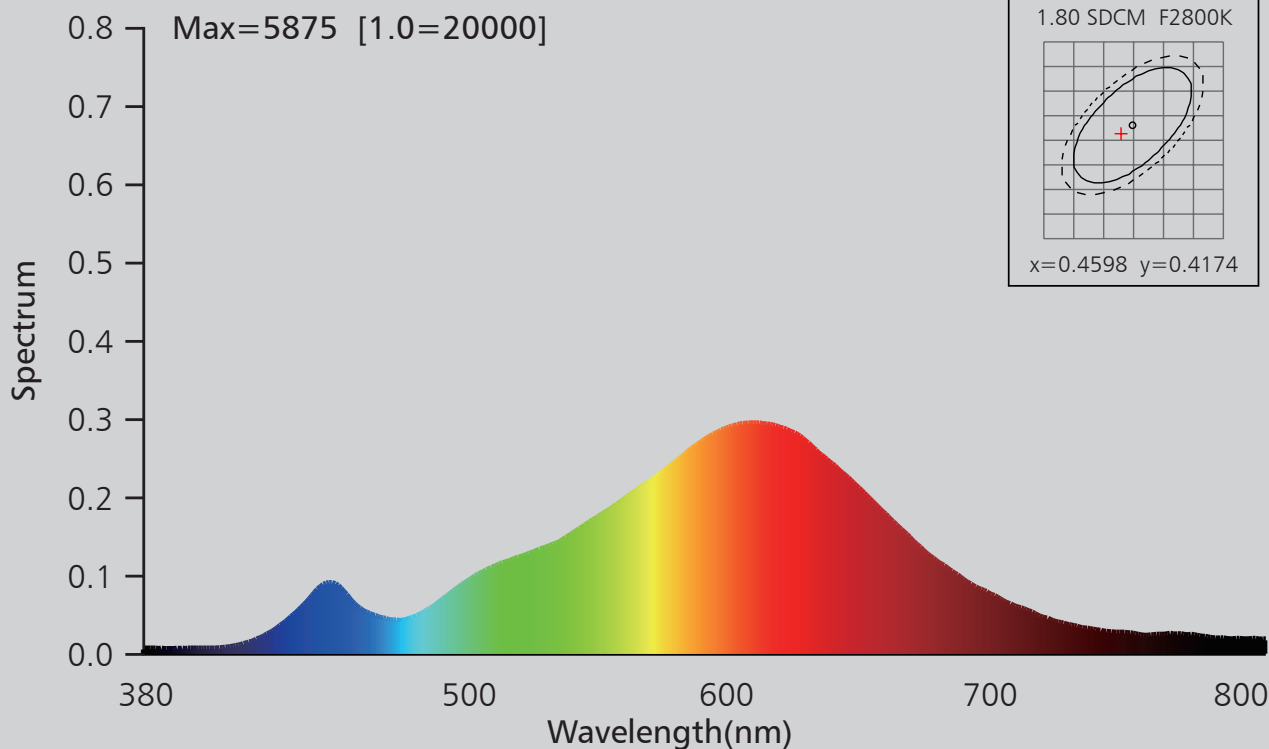
Driver data	DIM
Input rated Voltage	AC230V
Frequency	50Hz
Input Voltage	AC200-240V
Efficiency	≥70%
Total load Wattage	8W±0.5W
Power Factor	≥0.85
Rated input current	≤0.05A
Full load output Voltage	DC10-20V
Rated output current	310mA
Output current range	310mA±5%
Power tolerance	±5%
Current output tolerance	±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
8W	II	IP54	-20°C~45°C	0~90%	-20°C~65°C

Spectral Distribution

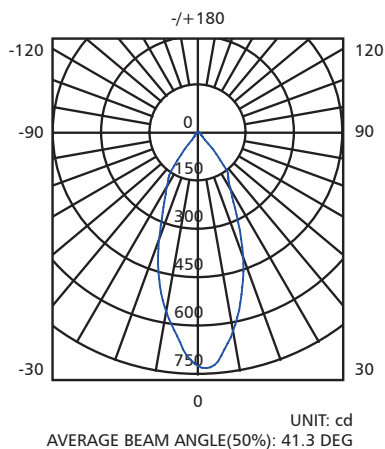
2800K



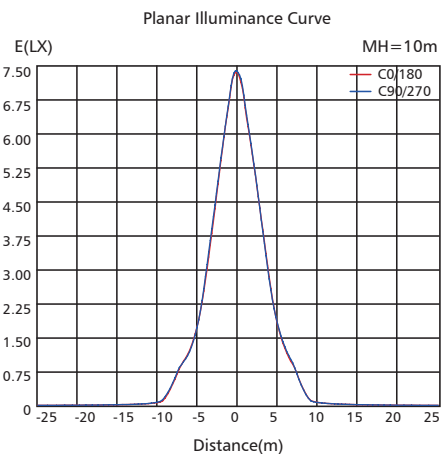
Photometric Diagram

2800K

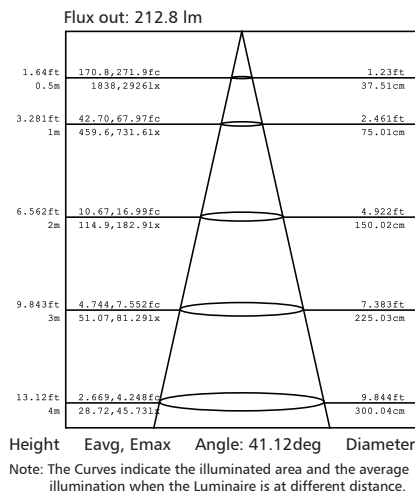
Polar intensity diagram



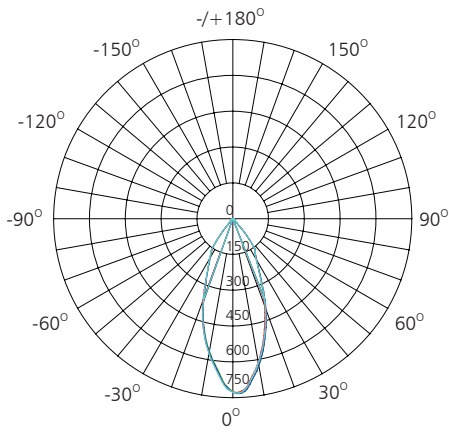
Cartesian intensity diagram



Beam diagram



Polar Diagram Comparison



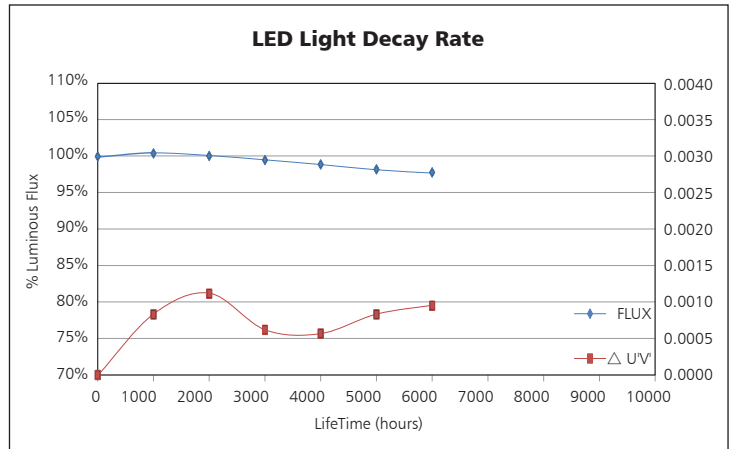
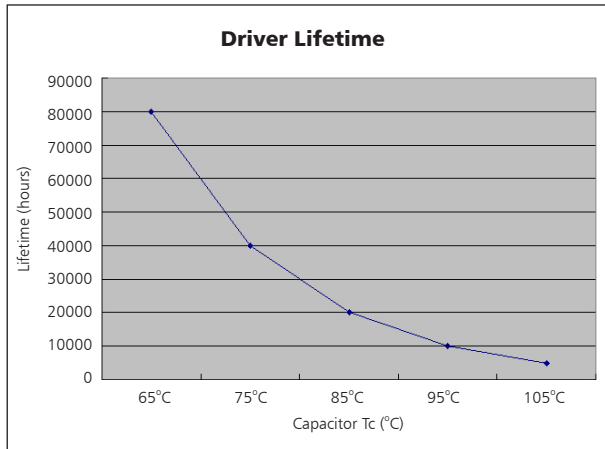
UNIT: cd

- C0/180, 41.3 deg
- C30/210, 41.2 deg
- C60/240, 41.3 deg
- C90/270, 41.4 deg

AVERAGE BEAM ANGLE (50%): 41.3 DEG

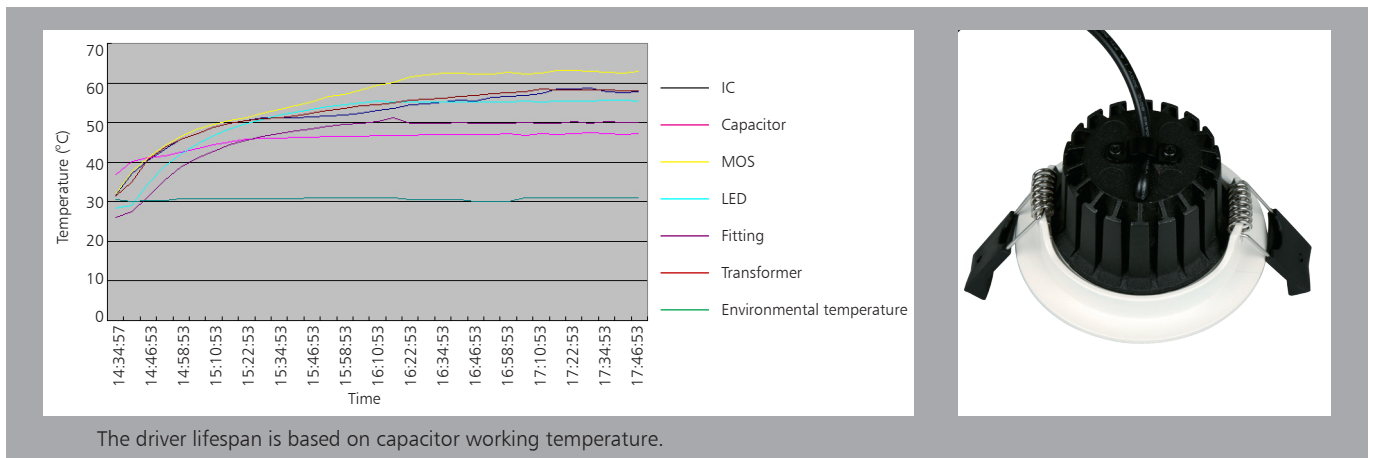


Driver lifetime & LED light decay rate



Temperature

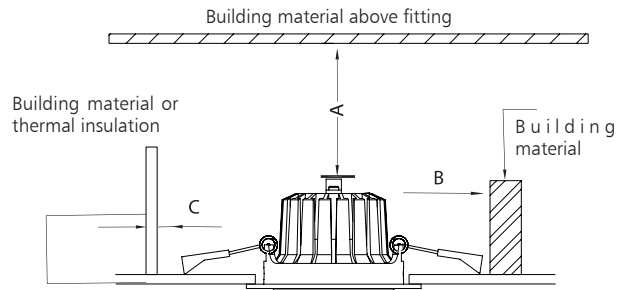
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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



Ceiling Opening

1

Connect Power supply

2

A. Hold back spring clips

B. Push downlight into position

3

Finish

4

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	46*46*29.5	0.27	15	48

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

