



Technical Application Guide for UP-SHINE LED Spotlight

UP-SP77MR16-8W

Introduction



LED Spotlight adopts COB LED, with high brightness and slight light decay. Excellent heat dissipation with aluminum heatsink and good color rendering index up to 80. MR16, GU10 base available, easy installation, with direct replacement of the traditional halogen.

- Up to 70% energy saving compared to halogen lamp
- Long lifetime of 40,000 hours
- 38° 60° beam angle
- Standard 50mm diameter
- CCT: 3000K 4000K
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

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

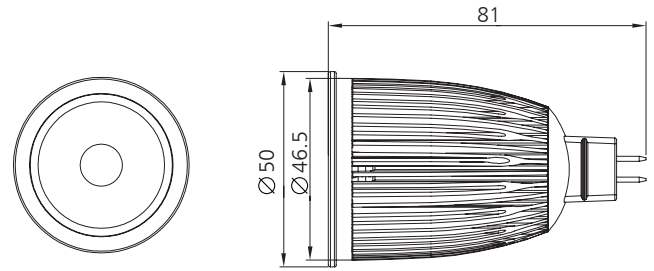
Application Areas

Application: It is widely used in residential lighting, such as bedroom, living room dining room, kitchen etc. Also commercial lighting, like hotel, restaurant, bar, shops etc.

Certificates

CE **RoHS**

Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-SP77MR16-8W	AC/DC12V	8W	1	640	38°/60°	3000K	40000h	≥80	No	Ø50*81mm
UP-SP77MR16-8W	AC/DC12V	8W	1	660	38°/60°	4000K	40000h	≥80	No	Ø50*81mm
UP-SP77MR16-8W	AC/DC12V	8W	1	730	38°/60°	5000K	40000h	≥80	No	Ø50*81mm
UP-SP77MR16-8W	AC/DC12V	8W	1	750	38°/60°	5700K	40000h	≥80	No	Ø50*81mm

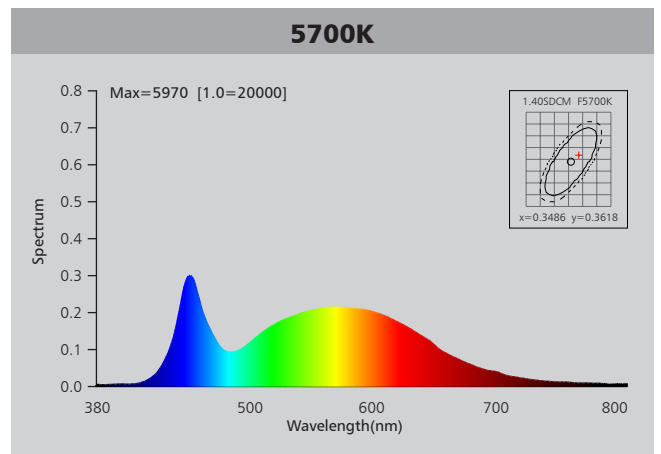
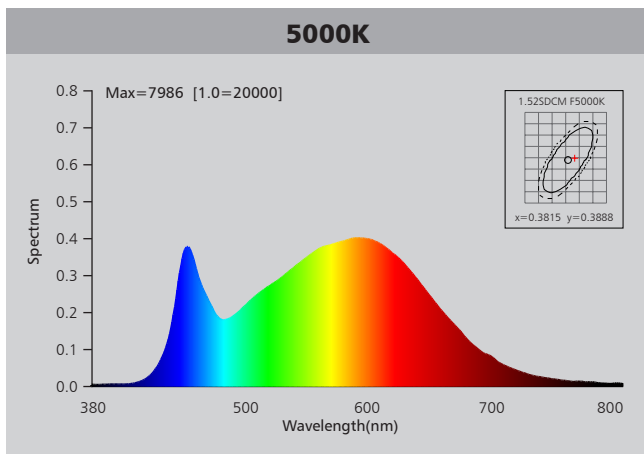
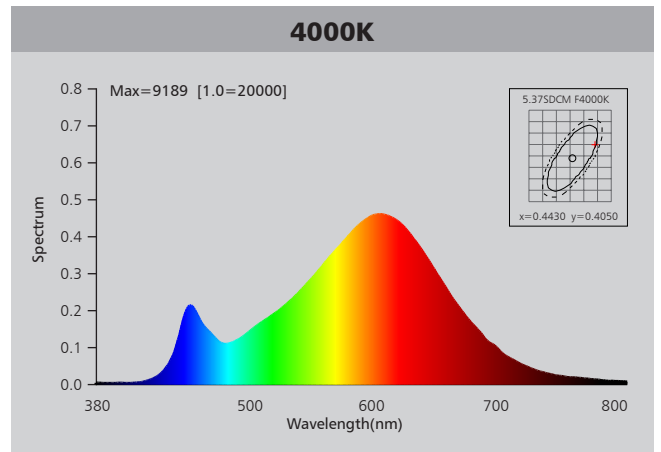
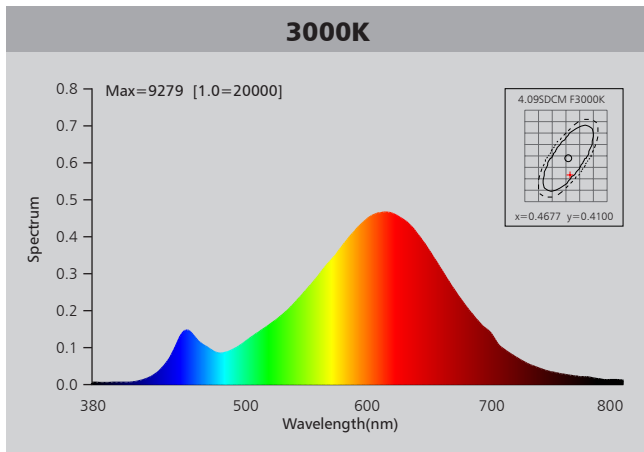
Driver data Sheet

Driver data	Non-dim
Input rated Voltage	AC/DC 12V
Frequency	50/60Hz
Input Voltage	DC 12V
Efficiency	≥84%
Total load Wattage	8W±1W
Power Factor	1
Rated input current	≤0.67A
Full load output Voltage	DC35-38V
Rated output current	185mA
Output current range	185mA±5%
Power tolerance	±5%
Current output tolerance	±5%

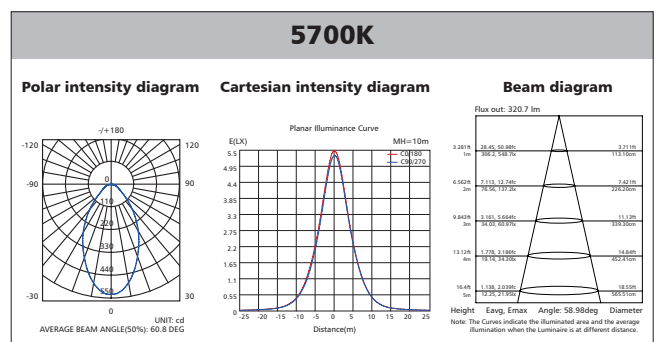
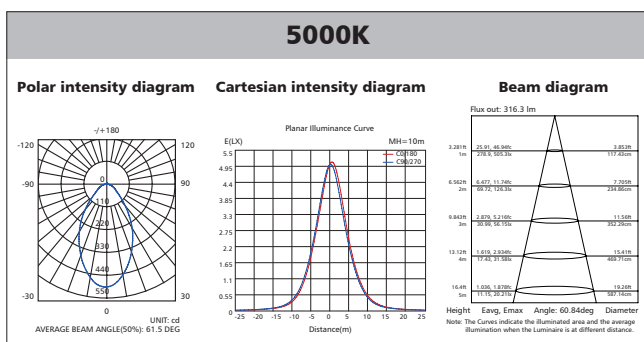
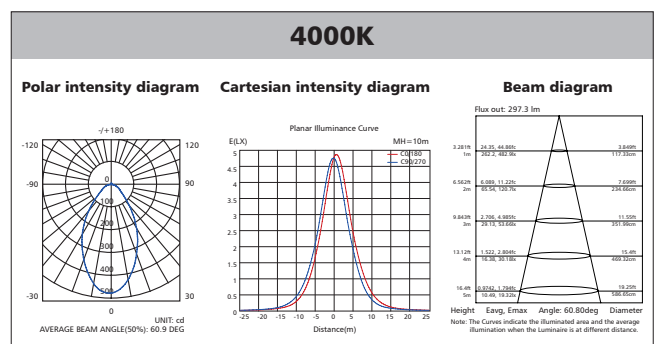
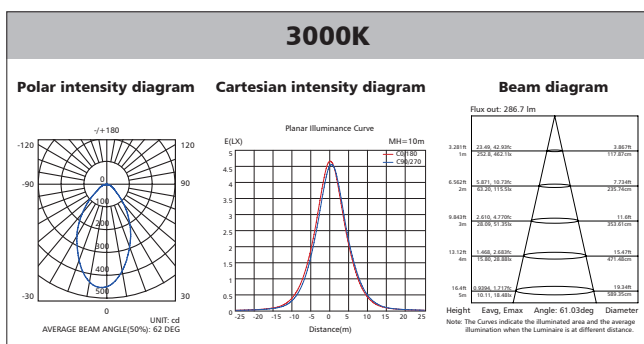
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
8W	III	IP20	-20°C~45°C	0~90%	-20°C~65°C

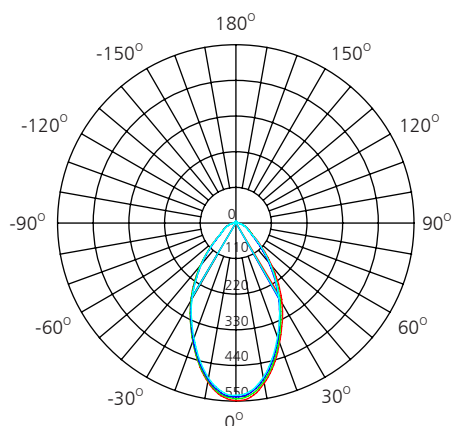
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



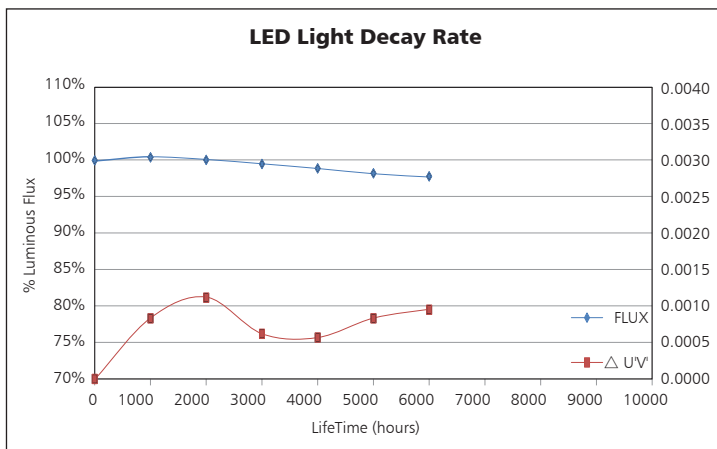
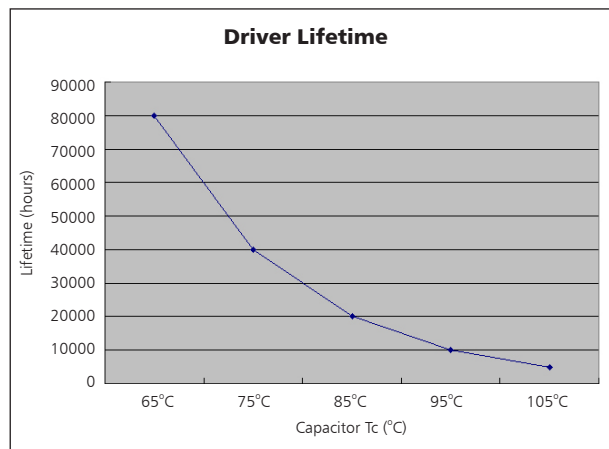
UNIT: cd

- C0/180, 61.6 deg
- C30/210, 60.9 deg
- C60/240, 60.2 deg
- C90/270, 60.6 deg



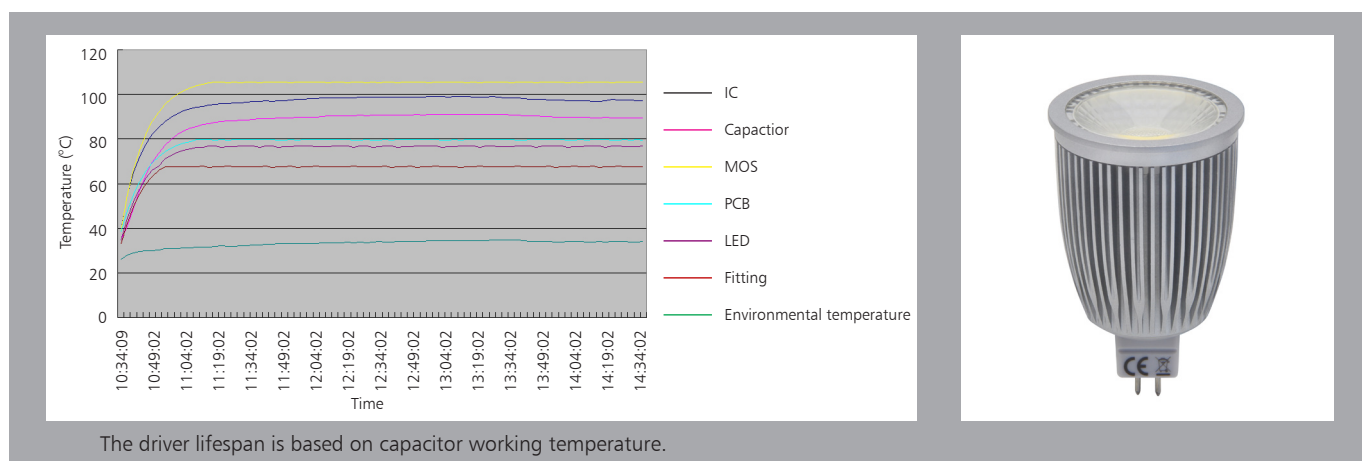
AVERAGE BEAM ANGLE (50%): 60.8 DEG

Driver lifetime & LED light decay rate



Temperature

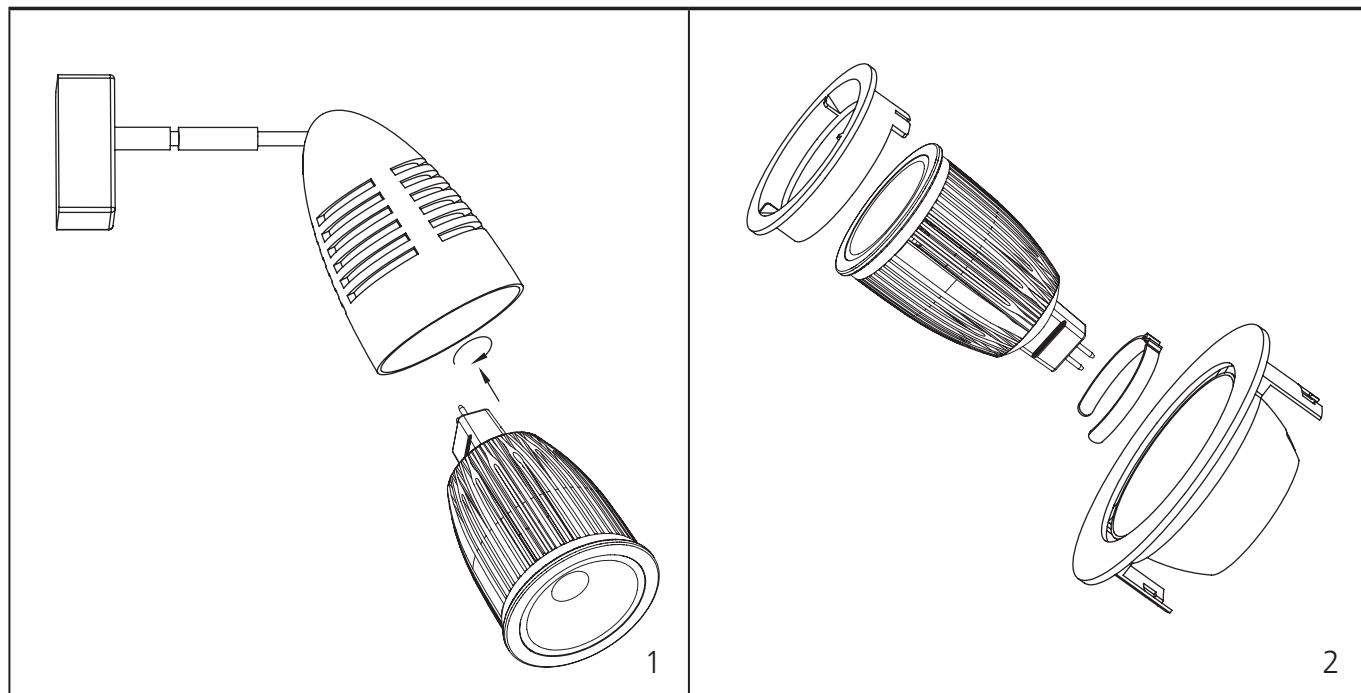
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.



Installation



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	29*29*42.5	0.105	14	100

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	700	70000	28
40" standard container	1400	140000	56

