



Technical Application Guide for UP-SHINE LED Spotlight

UP-SP77MR16-6W

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

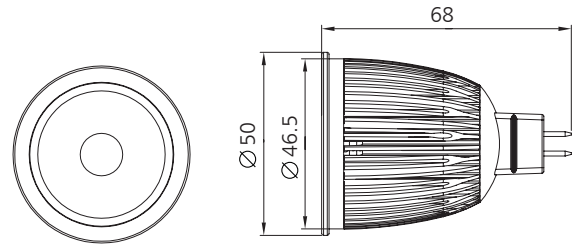
Application Areas

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



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimension
UP-SP77MR16-6W	AC/DC12V	6W	1	400	38°/60°	3000K	40000h	≥80	Ø50*68mm
UP-SP77MR16-6W	AC/DC12V	6W	1	430	38°/60°	4000K	40000h	≥80	Ø50*68mm
UP-SP77MR16-6W	AC/DC12V	6W	1	450	38°/60°	5000K	40000h	≥80	Ø50*68mm
UP-SP77MR16-6W	AC/DC12V	6W	1	460	38°/60°	5700K	40000h	≥80	Ø50*68mm

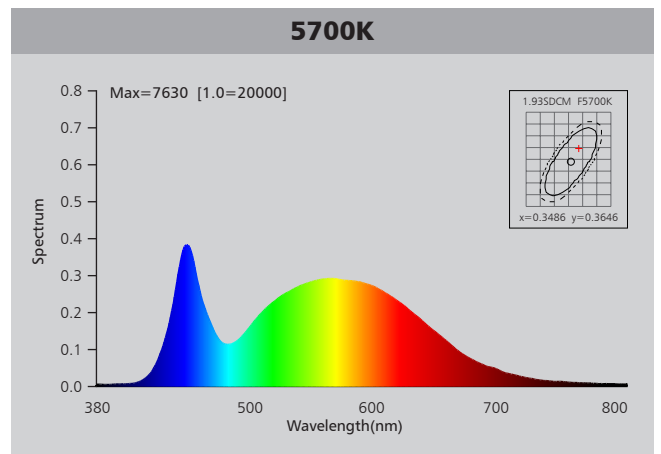
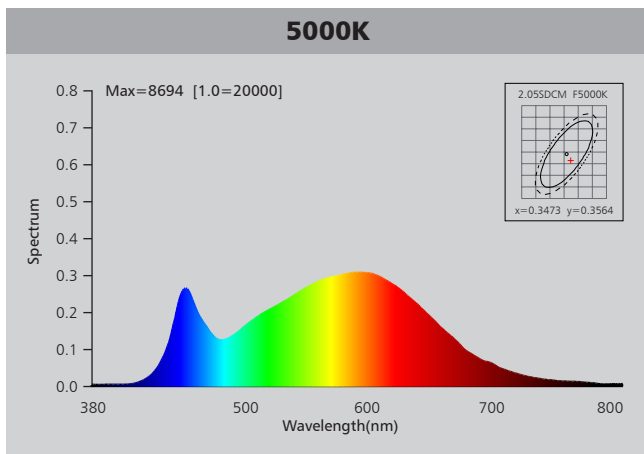
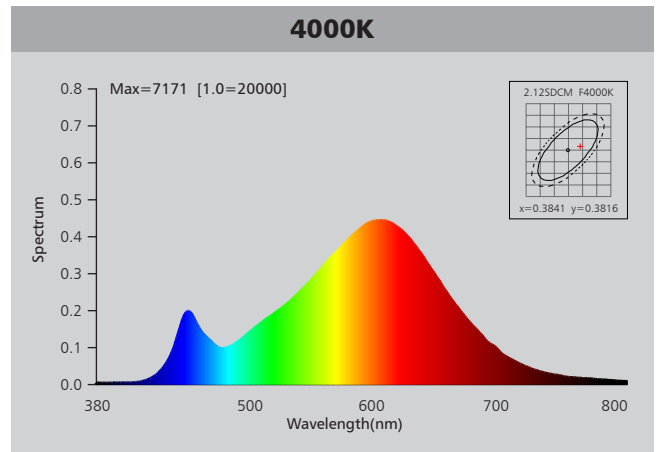
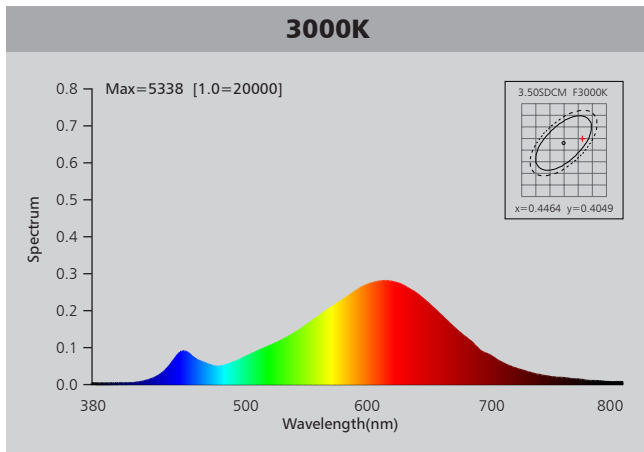
Driver data Sheet

Driver data	Non-dim
Input rated Voltage	DC12V
Frequency	50/60Hz
Input Voltage	AC/DC12V
Efficiency	≥88%
Total load Wattage	6W±1W
Power Factor	1
Rated input current	≤0.5A
Full load output Voltage	DC9-10V
Rated output current	450mA
Output current range	450mA±5%
Power tolerance	±5%
Current output tolerance	±5%

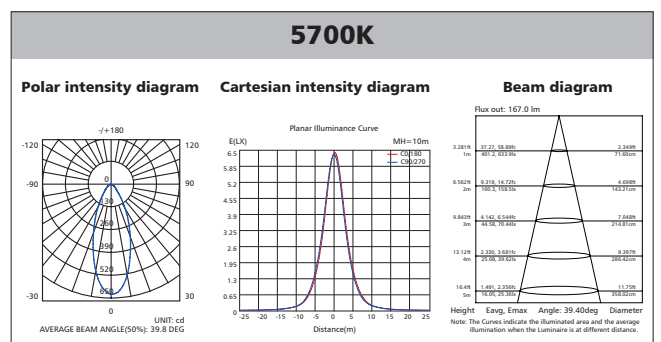
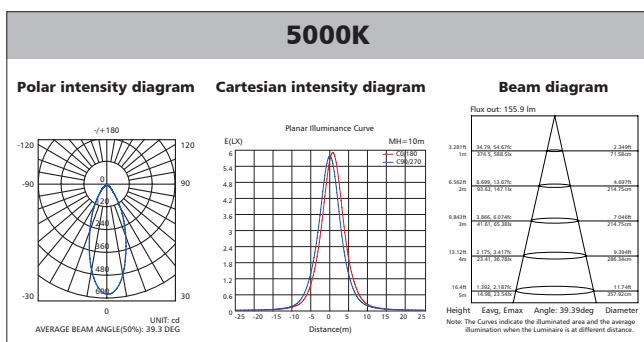
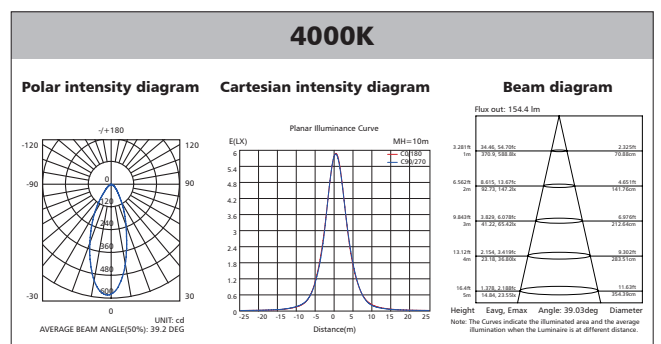
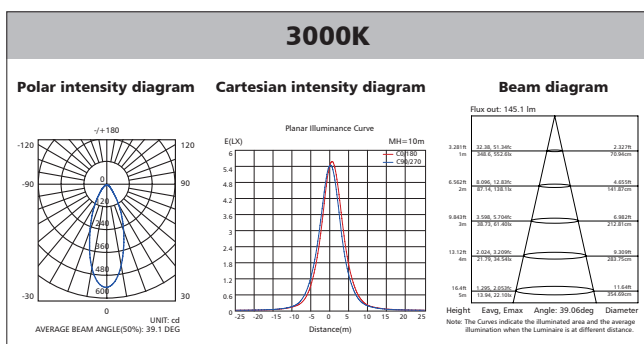
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
6W	III	IP20	-20°C~45°C	0~90%	-20°C~65°C

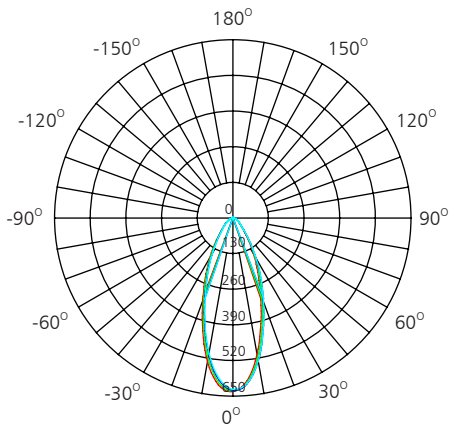
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



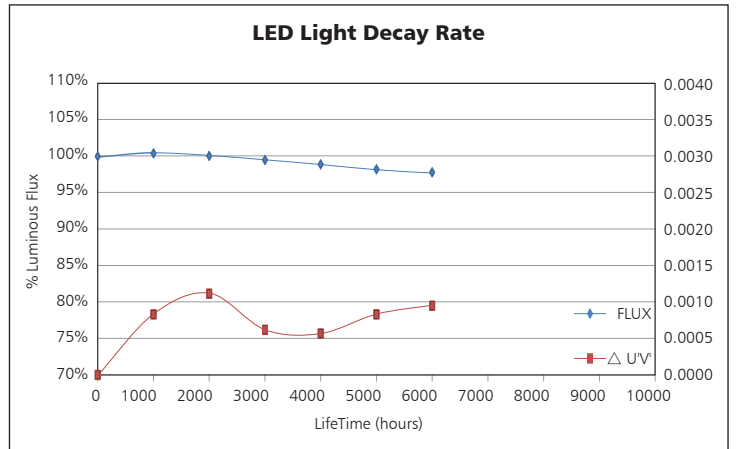
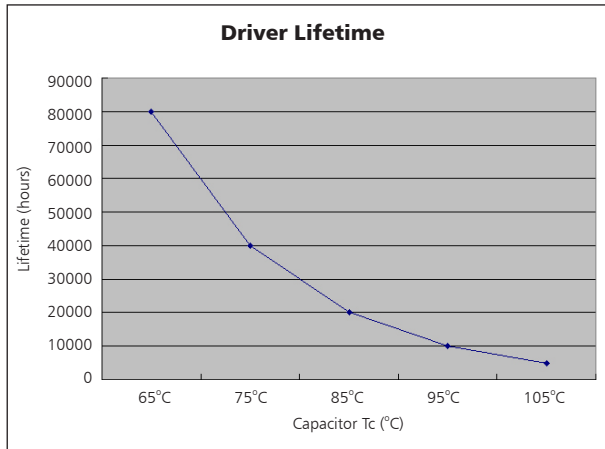
UNIT: cd

- C0/180, 39.4 deg
- C30/210, 39.7 deg
- C60/240, 40.0 deg
- C90/270, 40.0 deg

AVERAGE BEAM ANGLE (50%): 39.8 DEG

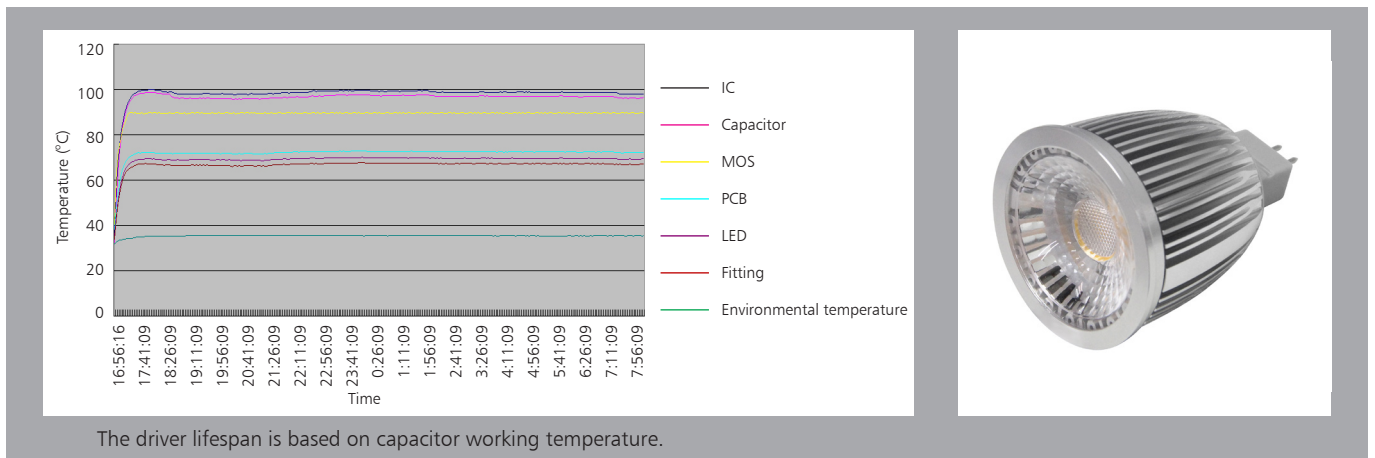


Driver lifetime & LED light decay rate

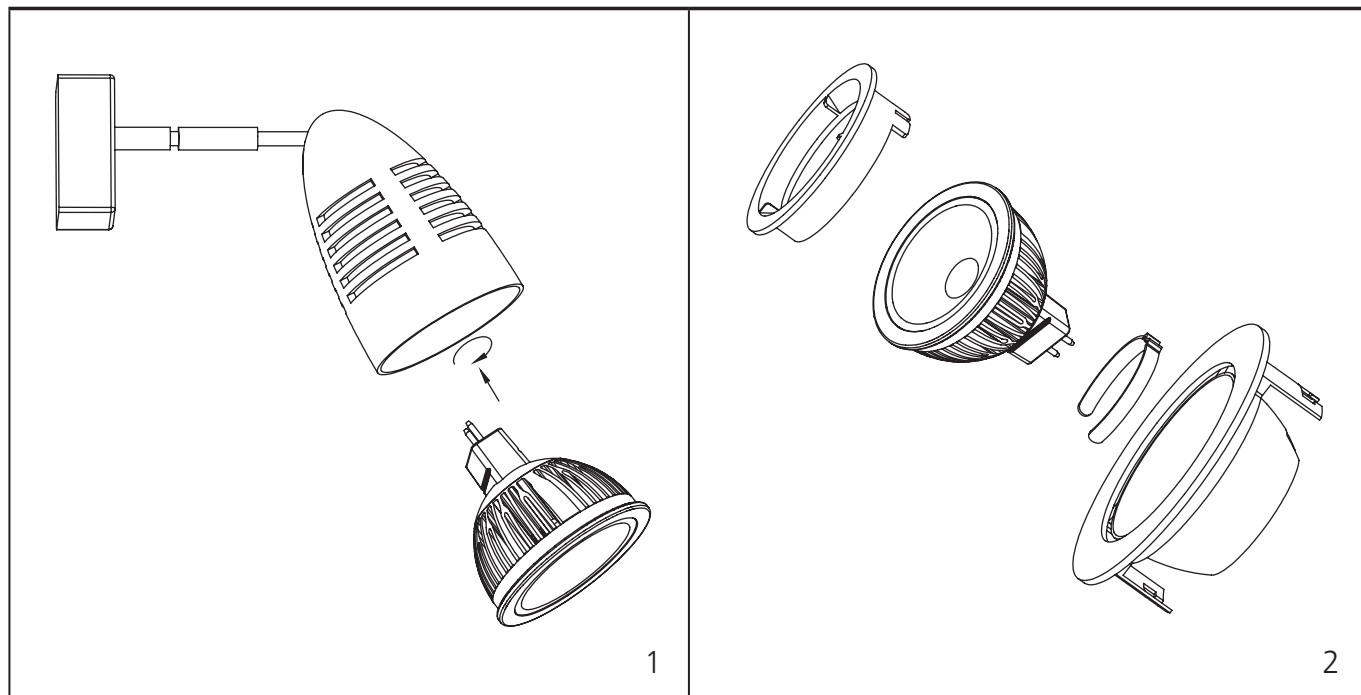


Temperature

- 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



Installation



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	29*29*36.5	0.065	10	100

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	903	90300	28
40" standard container	1806	180600	56

