



Technical Application Guide for UP-SHINE LED Spotlight

UP-SP81GU10-7W

Introduction



LED Spotlight adopts 3030SMD 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. Dimmable version achieves great compatibility to worldwide famous brand dimmers.

- Up to 70% energy saving compared to halogen lamp
- Long lifetime of 40,000 hours
- Dimmable when using triac dimmer
- 30° beam angle
- Standard 50mm diameter
- CCT: 2700K 3000K
4000K 5000K
- 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

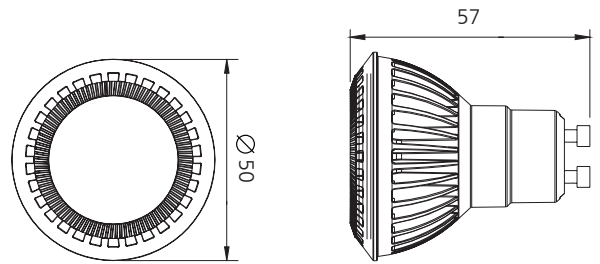
Application: It is widely used in residential lighting, such as bedroom, living room dining room, kitchen etc. Also commercial lighting, like hotel, restaurant, bar, shops etc.

Certificates

CE **RoHS**



Product Information



Technical Specifications

| Model | Voltage | Power | Power Factor | Lumen (±5%) | Beam angle | CCT | Lifespan | CRI | Dimmable | Dimension |
|-----------------|---------|-------|--------------|-------------|------------|-------|----------|-----|----------|-----------|
| UP-SP81GU10-7WD | AC230V | 7W | ≥0.6 | 450 | 30° | 2700K | 40000h | >80 | Yes | Ø50*57mm |
| UP-SP81GU10-7WD | AC230V | 7W | ≥0.6 | 470 | 30° | 3000K | 40000h | >80 | Yes | Ø50*57mm |
| UP-SP81GU10-7WD | AC230V | 7W | ≥0.6 | 490 | 30° | 4000K | 40000h | >80 | Yes | Ø50*57mm |
| UP-SP81GU10-7WD | AC230V | 7W | ≥0.6 | 500 | 30° | 5000K | 40000h | >80 | Yes | Ø50*57mm |

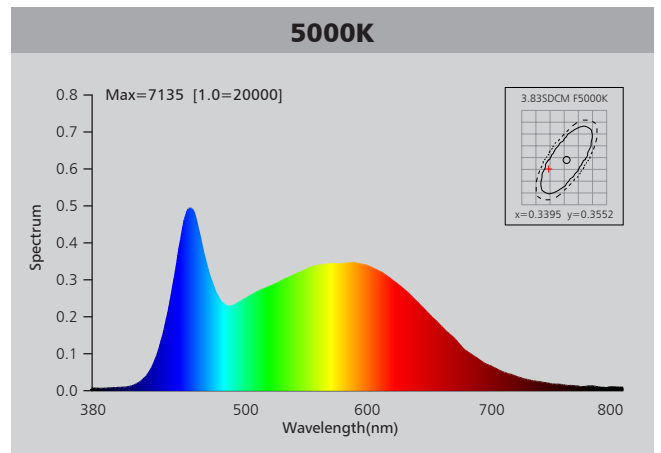
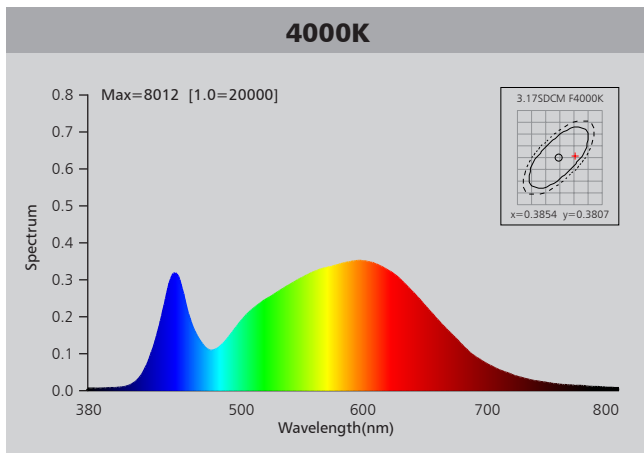
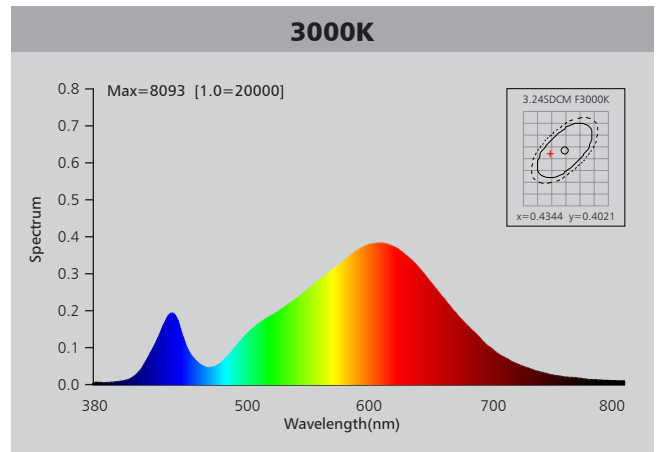
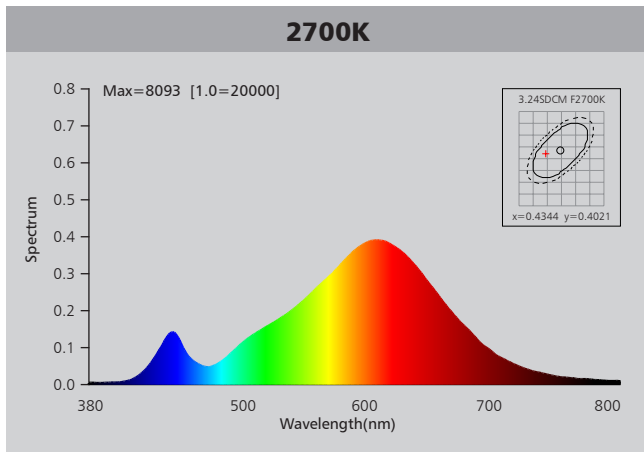
Driver data Sheet

| Driver data | vDIM |
|-----------------------------|---------------|
| Input rated Voltage | AC230V |
| Frequency | 50Hz |
| Input Voltage | AC200-240V |
| Efficiency | ≥72% |
| Total load Wattage | 7W±0.5W |
| Power Factor | ≥0.6 |
| Rated input current | ≤0.05A |
| Full load output Voltage | DC9-10V |
| Rated output current | 400mA |
| Output current range | 400mA±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 | AC1500V |

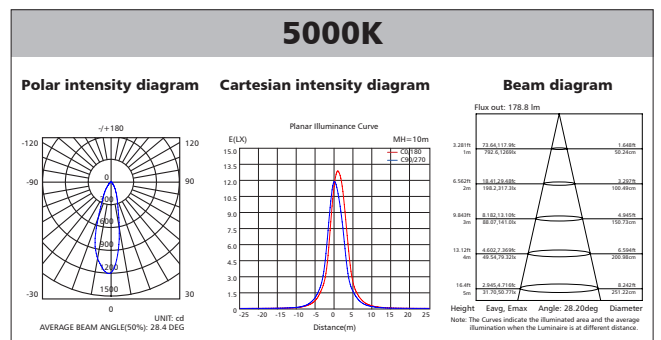
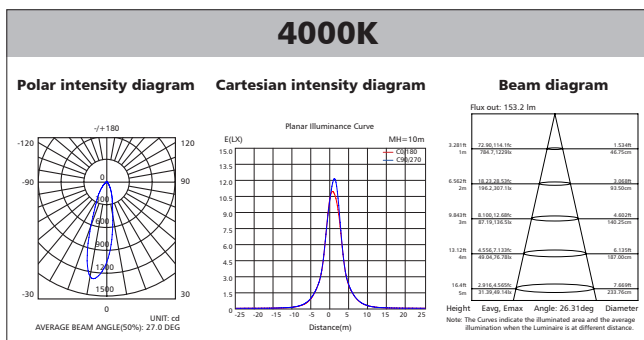
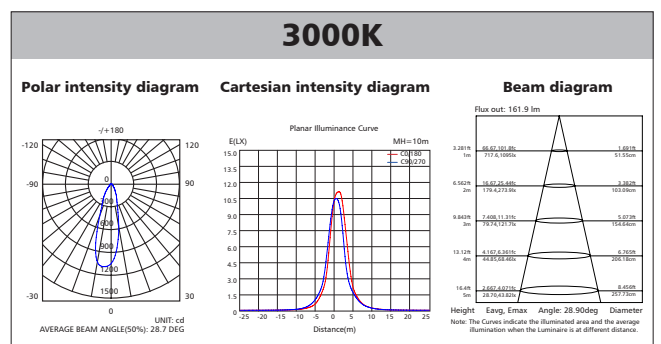
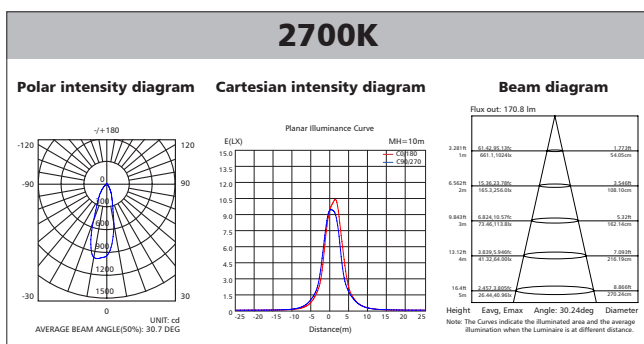
Fixture Compatibility

| 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 |

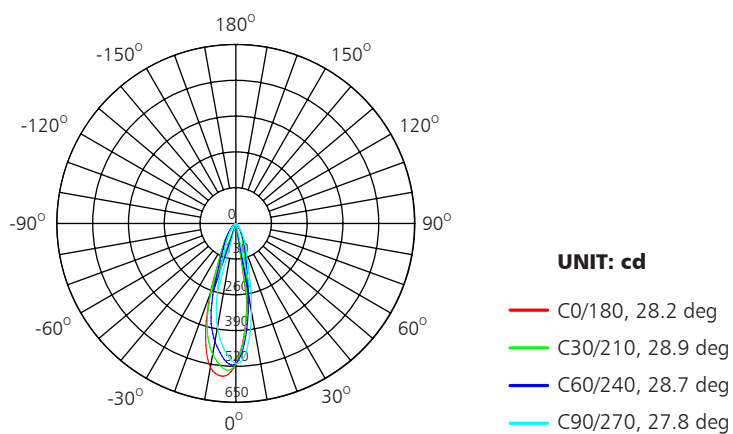
Spectral Distribution



Photometric Diagram



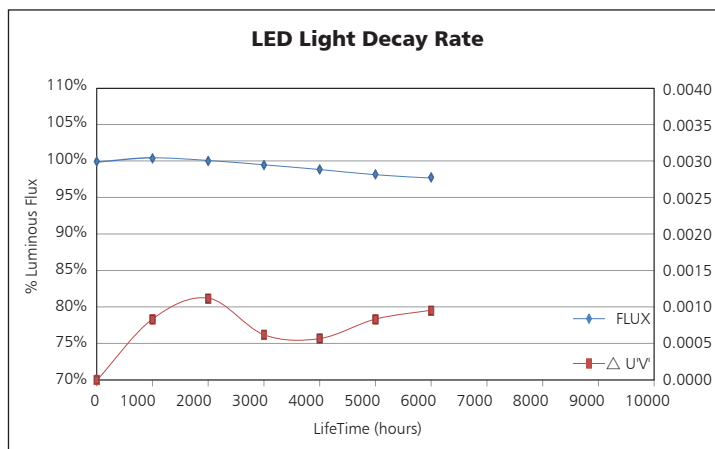
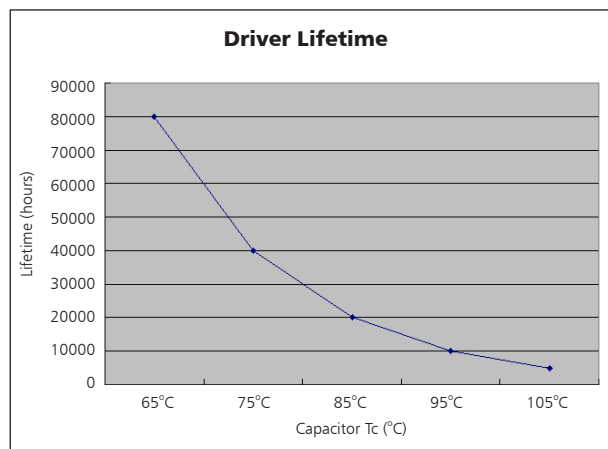
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 28.4DEG

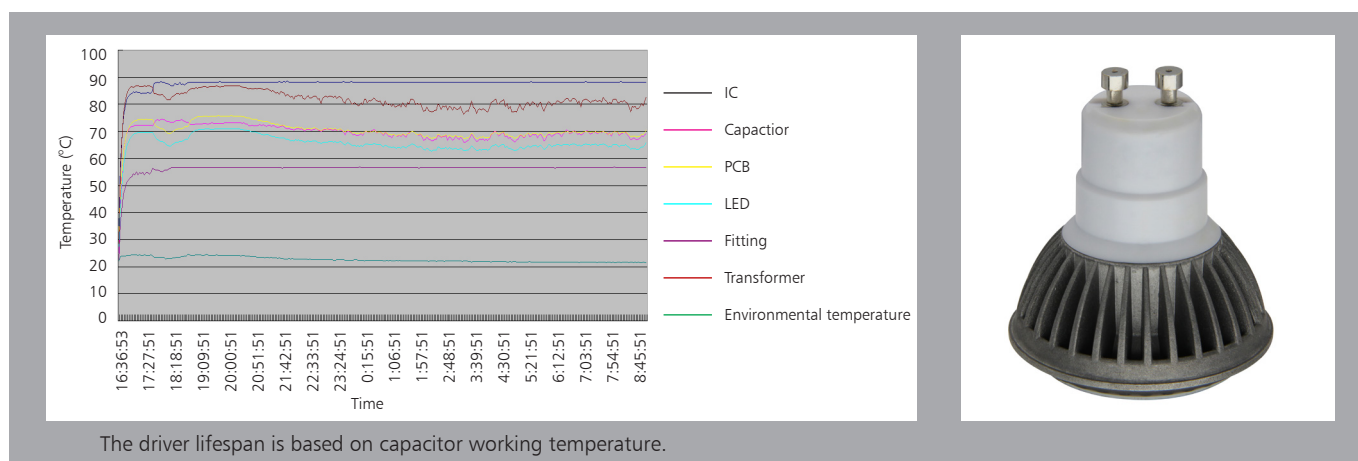


Driver lifetime & LED light decay rate

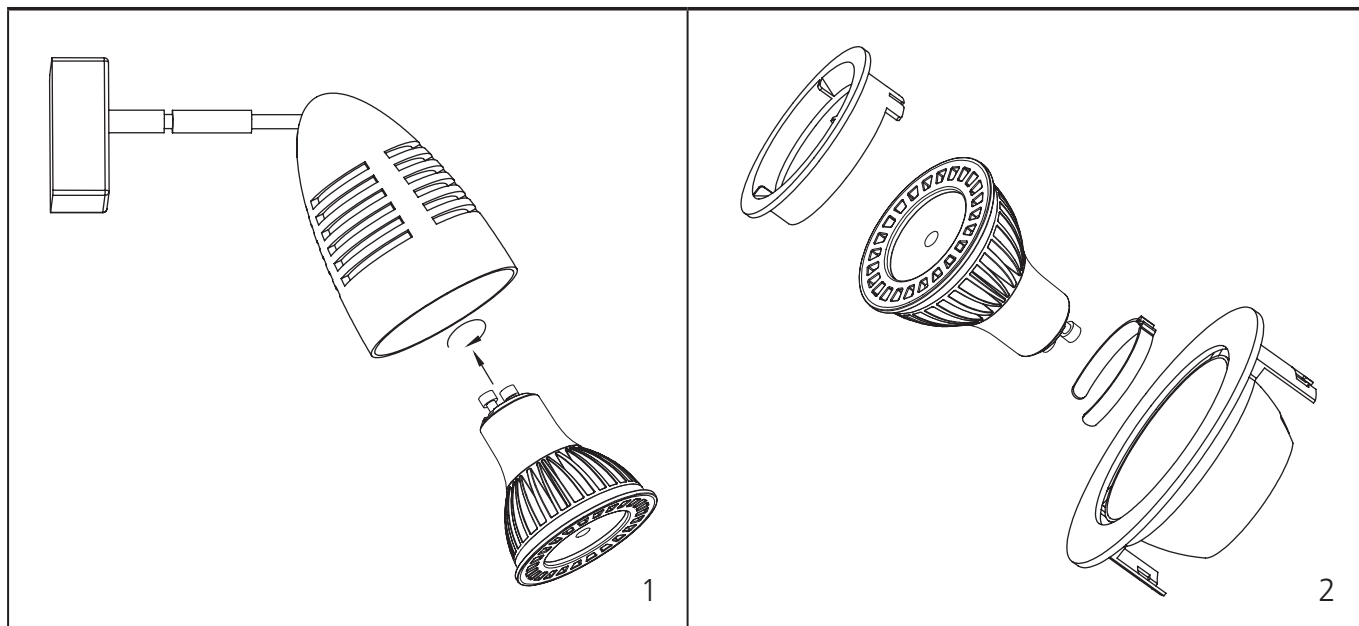


Temperature

- 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*35 | 0.055 | 7 | 100 |

| | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 930 | 93000 | 27.5 |
| 40" standard container | 1860 | 186000 | 56 |

