



Technical Application Guide for Berdis Lighting LED Spotlight

B0101-01/2.5F

Introduction



B0101-01 model is an ultra slim spotlight provide a wide range of applications. and perfect combination of light efficiency,light comfort and design.

Features

1. Super slim design LED spotlight with Reflector/lens.
2. External driver and junction box facilitate easy installation.
3. Good heat dissipating to ensure long life.
4. Triac / DALI / 0-10V Dimmable version options.
5. Fitting Color:white sandblasted,black sandblasted,nickel brushed.
6. Shape of Housing Options: Round and square.
6. Color Temperature Options:
2700K;Dim to warm;3000K;4000K;6000K;
RGBW APP Smart control with TUYA;3000-6000K APP Smart control with TUYA



Application notes

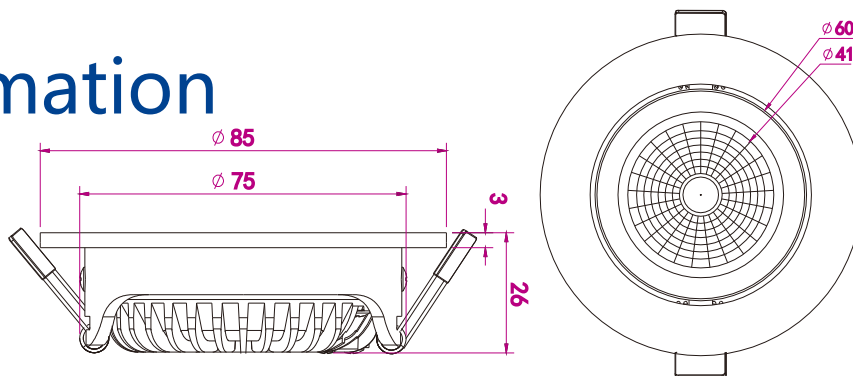
- The lamp must be installed by professional electrician.
- Ensure the power supply is switched off before fitting this product
- Keep away from corrosive gas

It is designed for general lighting applications in home,office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

Certificate



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Beam angle	Dimmable	Lumen (±5%)	CCT	Lifespan	CRI	Dimension
B0101-01	AC100-277V	5W	≥0.5	60°	No	465	2700K	50,000h	≥90	Ø85*26mm cutout 75mm
						475	3000K			
						480	4000K			
						485	6000K			
B0101-01	AC200-240V	5W	≥0.9	60°	Yes	460	2700K	50,000h	≥90	Ø85*26mm cutout 75mm
						470	3000K			
						475	4000K			
						480	6000K			
B0101-01	AC100-277V	7W	≥0.5	60°	No	675	2700K	50,000h	≥90	Ø85*26mm cutout 75mm
						685	3000K			
						690	4000K			
						695	6000K			
B0101-01	AC200-240V	7W	≥0.9	60°	Yes	670	2700K	50,000h	≥90	Ø85*26mm cutout 75mm
						680	3000K			
						685	4000K			
						690	6000K			
B0101-01	AC200-240V	7W	≥0.9	60°	Dim to Warm	440-20	2800-1800K	50,000h	≥97	Ø85*26mm cutout 75mm

Driver data Sheet(Flicker-free Driver)

Driver Type	Reverse-phase Dimming		Dim to Warm	3 Steps Current			Non dim	
Input rated Voltage	AC230V						AC100-277V	AC100-277V
Frequency	50Hz						50/60Hz	50/60Hz
Input Voltage	AC200-240V						AC90-305V	AC90-305V
Efficiency	≥90%						≥92%	≥92%
Wattage	5W	7W	5W	5W	7W	9W	5W	7W
Power Factor	≥0.9						≥0.5	≥0.5
Rated input current	≤0.1A	≤0.1A	≤0.1A	≤0.1A	≤0.1A	≤0.1A	≤0.1A	≤0.1A
Full load output Voltage	DC14-25V	DC14-25V	DC14-25V	DC14-25V	DC14-25V	DC14-25V	DC25-42V	DC25-42V
Rated output current	260mA	260mA	260mA	260mA	260mA	260mA	135mA	135mA
Output current range	260mA±5%	260mA±5%	260mA±5%	260mA±5%	260mA±5%	260mA±5%	135mA±5%	135mA±5%
Power tolerance	±5%							
Current output tolerance	±5%							
Dimming range	10%-100%						—	—
Dimmer	RPC						—	—
Short circuit protection	PASS							
Over voltage protection	PASS							
Over temperature protection	PASS							

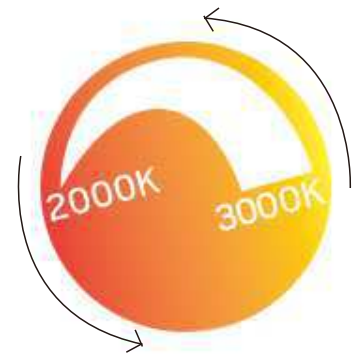
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
5/7/9W	II	IP21/54/65	-20°C~45°C	0~90%	-20°C~65°C

Dim to Warm Healthy Lightness

Brightness change from 100% to 10%
when CCT change from 2800K to 1800K
at the same time.

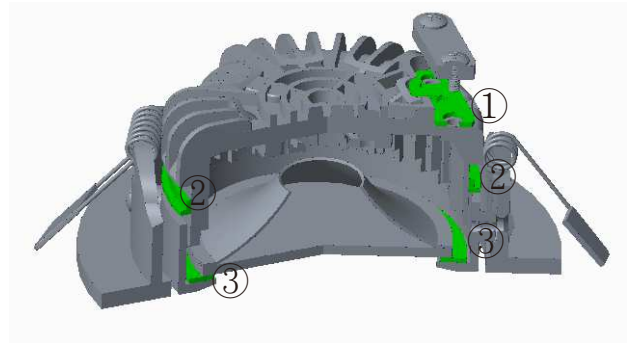
Dim to warm version is big range used
at homes and hotels.



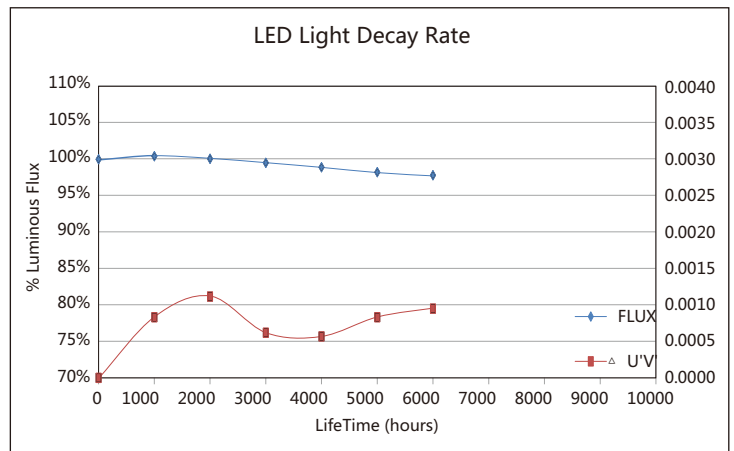
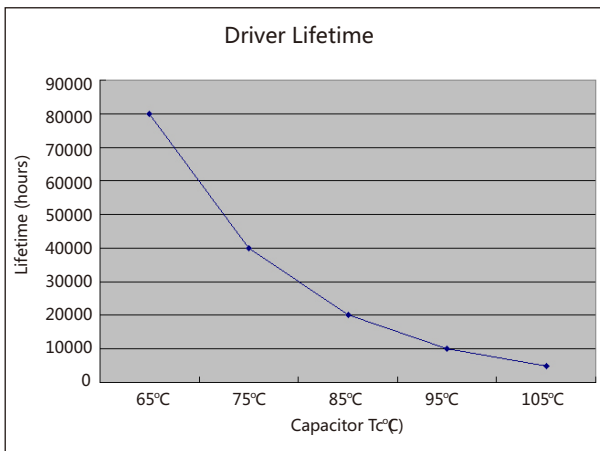
We have this dim to warm version controlled with TUYA
system on mobile phone as well.

Please consult to us if you have inquiry on smart control
dim to warm version.

- **Ip21**:no water-proof ring .
for indoor use only
- **Ip54** :water-proof ring①
for indoor use only,include bathroom.
- **Ip65** :water-proof ring①②③
for indoor use only,include shower room.

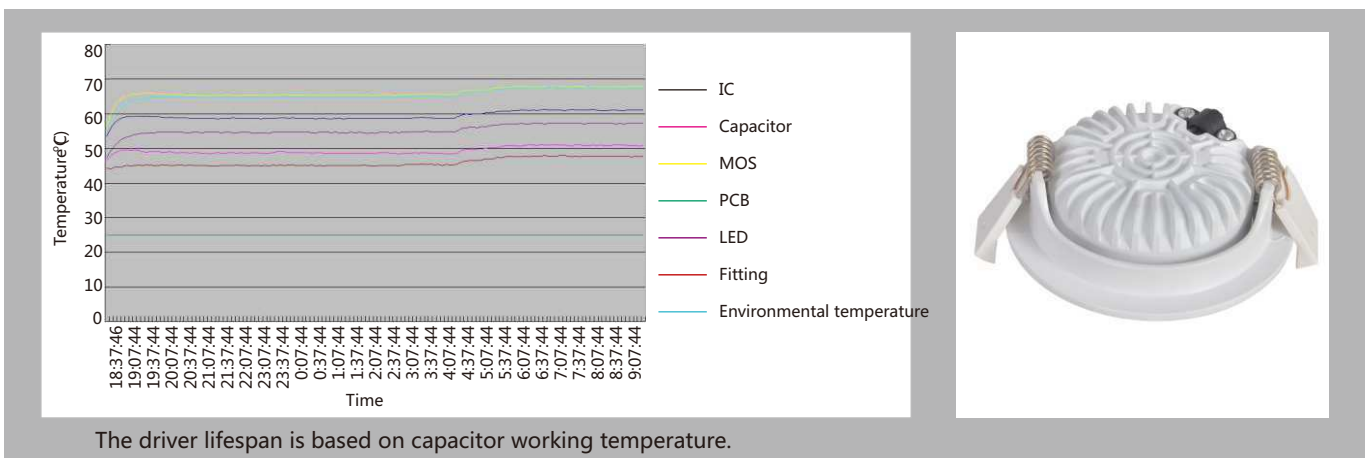


Driver lifetime & LED light decay rate

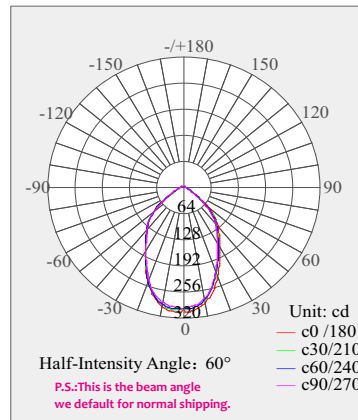
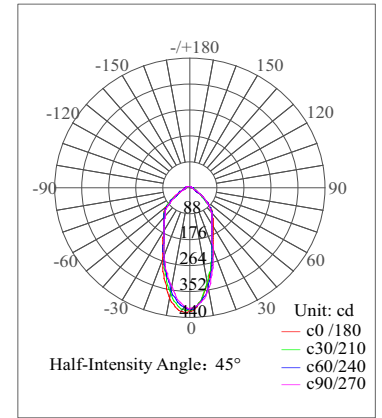
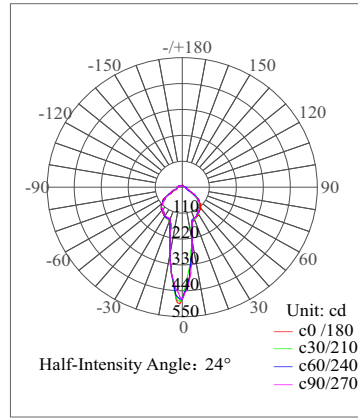


Temperature

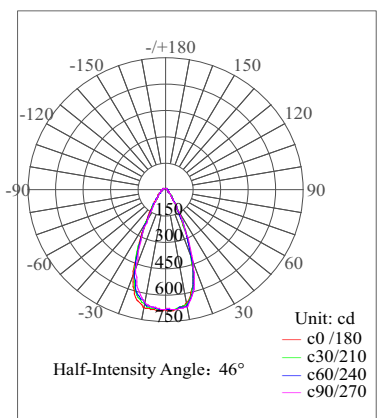
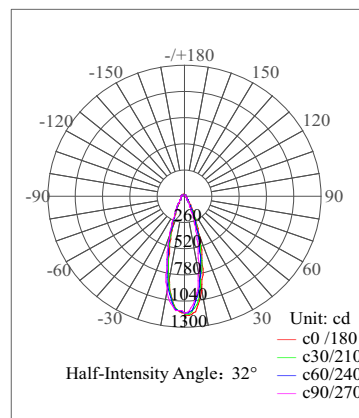
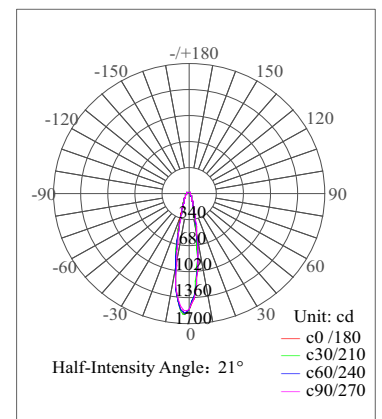
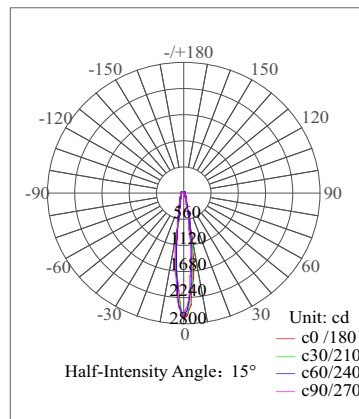
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



Reflector Versions Distribution Curve of Meridian

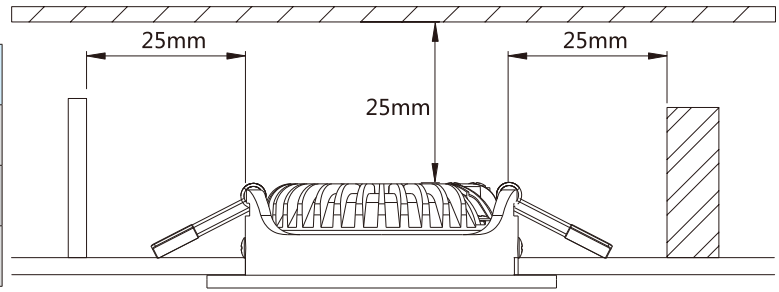


Lens Versions Distribution Curve of Meridian



Installation

Install requirements	
A-gap above the fitting	25mm
B-gap to the building material	25mm
C-gap to the thermal insulation	25mm



1. Open a hole according to the cutout size of led downlight.

Figure 1

2. Open the junction box cover, see Figure 1. (Model dependent):

3. Put the main AC wire through line pressing clip, feed the L.N to the fast connection terminal block respectively then compress the line pressing clip.

L = Brown
N = Blue

4. Close the junction box cover tightly, then put junction box and driver into the hole.

5. Hold back spring clips then push downlight into the hole.

6. Make sure the downlight fixed tightly in ceiling, turn on the power.

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	52.5*21.5*37	0.25	13	50

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	683	34150	28
40" standard container	1366	68300	56

