

FDV

BA- Lighting AS

BA321-DL97-6-18WD

Introduction



BA- Lighting AS SMD LED Down light adopts high lumen SMD LED, PC diffuser with even light output. White, silver, chrome surface treatment are available for customer's preference.

Triac dimmable, 0-10V dimmable and DALI dimmable version share great popularity by excellent dimming effect.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Dimmable when using triac dimmer
- 90° wide beam angle
- Ø160-170mm cutout
- CCT: 3000K 4000K
  5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP54 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

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.

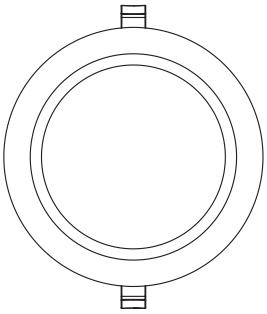
Certificate

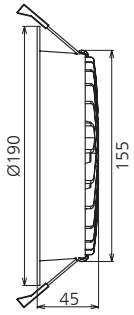
CE RoHS SAA



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Product Information





Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
BA-DL97-6-18W	AC230V	18W	≥0.9	1740	90°	3000K	50000h	≥80	No	Ø190*45mm cutout 160-170mm
BA-DL97-6-18W	AC230V	18W	≥0.9	1800	90°	4000K	50000h	≥80	No	Ø190*45mm cutout 160-170mm
BA-DL97-6-18W	AC230V	18W	≥0.9	1830	90°	5000K	50000h	≥80	No	Ø190*45mm cutout 160-170mm
BA-DL97-6-18W	AC230V	18W	≥0.9	1870	90°	5700K	50000h	≥80	No	Ø190*45mm cutout 160-170mm
BA321-DL97-6-18WD	AC230V	18W	≥0.9	1710	90°	3000K	50000h	≥80	Yes	Ø190*45mm cutout 160-170mm
BA-DL97-6-18W-D	AC230V	18W	≥0.9	1760	90°	4000K	50000h	≥80	Yes	Ø190*45mm cutout 160-170mm
BA-DL97-6-18W-D	AC230V	18W	≥0.9	1800	90°	5000K	50000h	≥80	Yes	Ø190*45mm cutout 160-170mm
BA-DL97-6-18W-D	AC230V	18W	≥0.9	1830	90°	5700K	50000h	≥80	Yes	Ø190*45mm cutout 160-170mm

Driver data Sheet

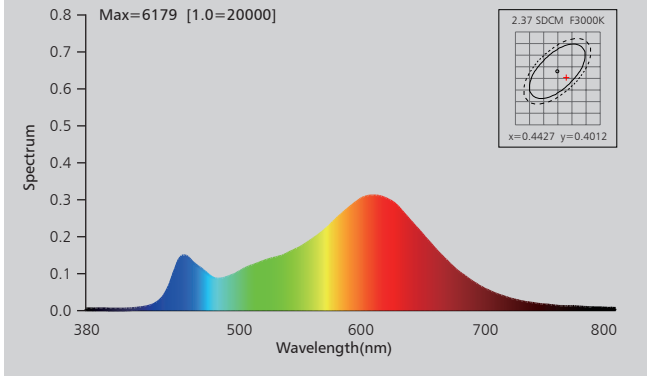
Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥83%	≥85%
Total load Wattage	18W±1W	18W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.1A	≤0.1A
Full load output Voltage	DC23-40V	DC24-40V
Rated output current	400mA	420mA
Output current range	400mA±5%	420mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	—
Dimmer	Triac dimmers	—
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
THD	≤18%	≤18%
Withstand voltage	AC3750V	AC3750V

Fixture Compatibility

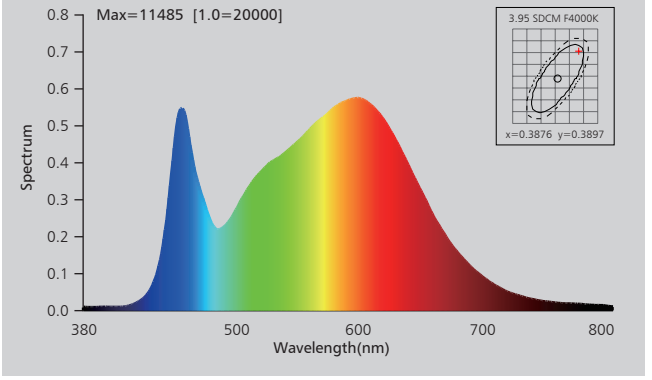
Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
18W	II	IP54	-20°C~45°C	0~90%	-20°C~65°C

Spectral Distribution

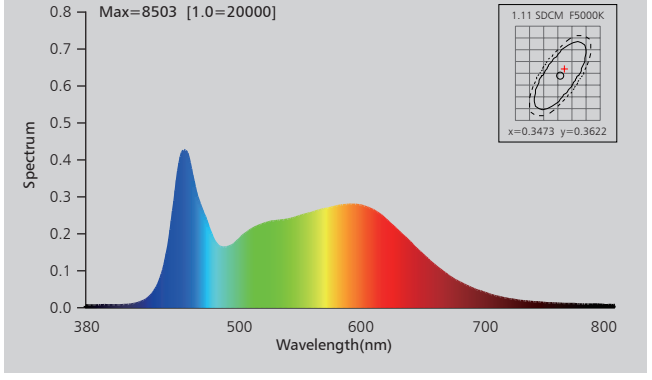
3000K



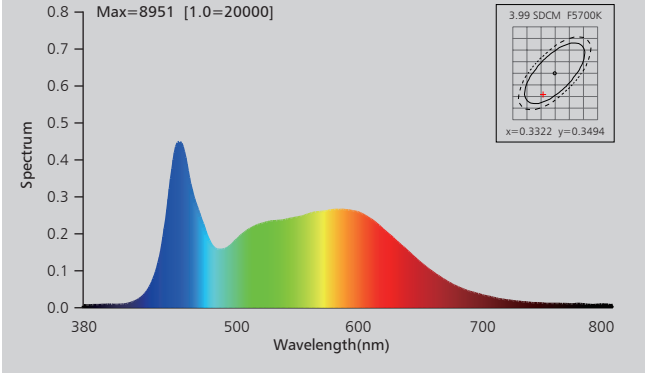
4000K



5000K

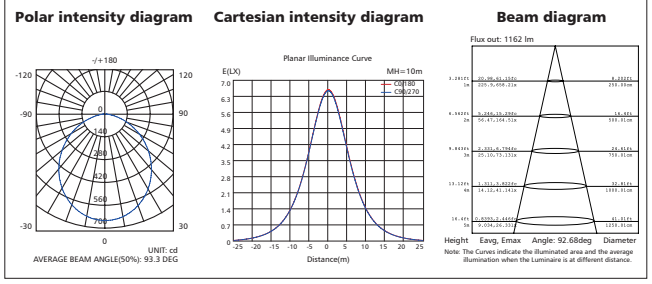


5700K

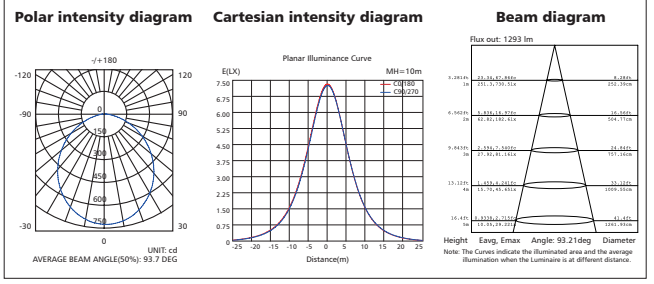


Photometric Diagram

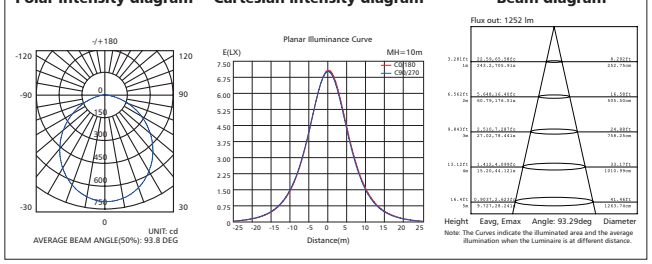
3000K



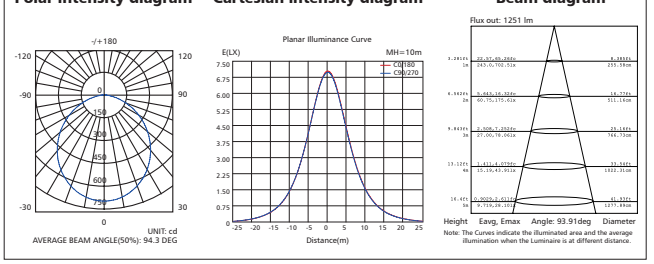
4000K



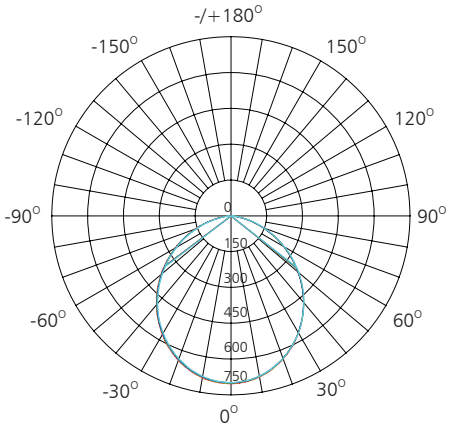
5000K



5700K



Polar Diagram Comparison



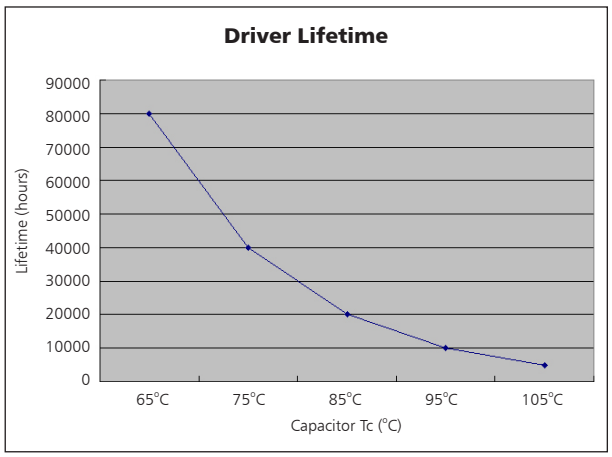
AVERAGE BEAM ANGLE (50%): 94.3DEG

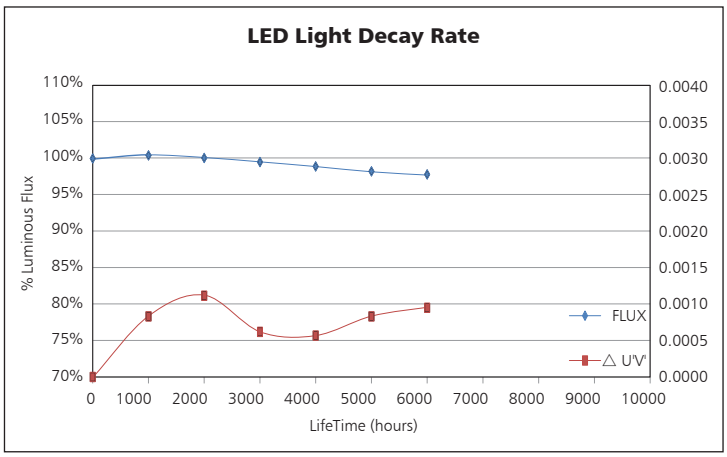
UNIT: cd

- C0/180, 94.3 deg
- C30/210, 94.2 deg
- C60/240, 94.3 deg
- C90/270, 94.4 deg



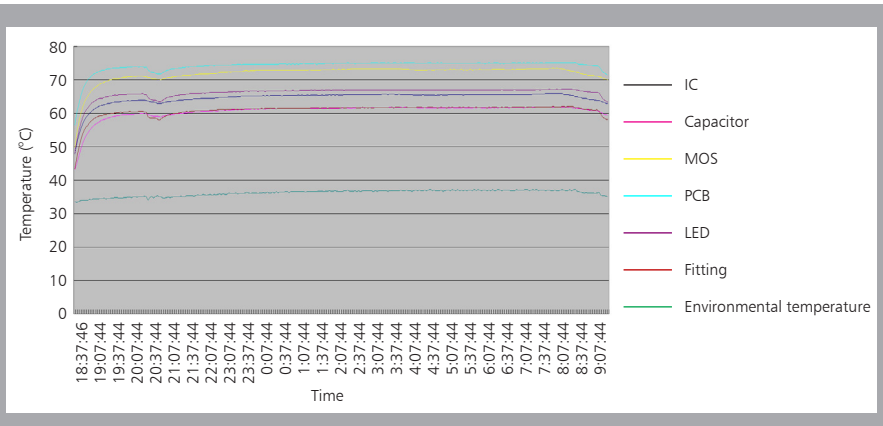
Driver lifetime & LED light decay rate





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

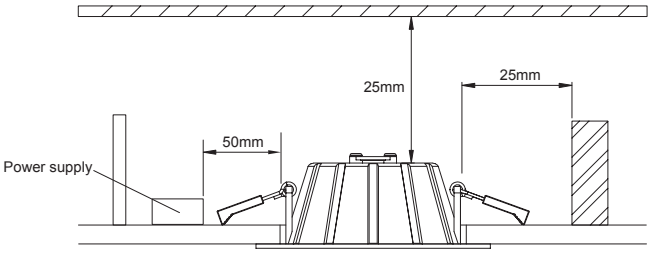


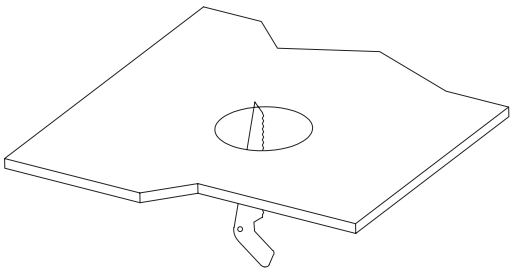


The driver lifespan is based on capacitor working temperature.

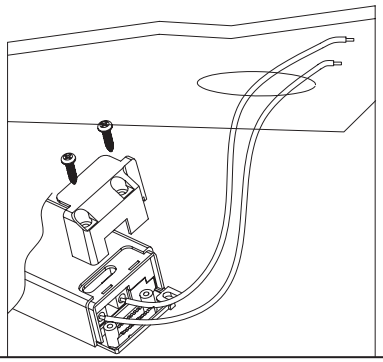
Installation

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

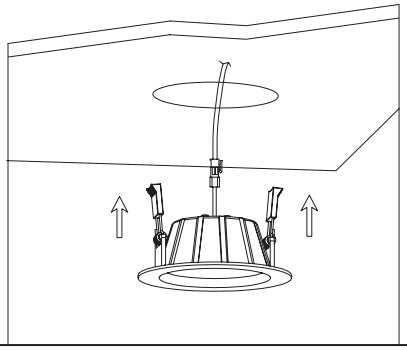


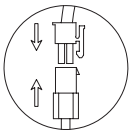


1. Open a hole according to the cutout size of led downlight.

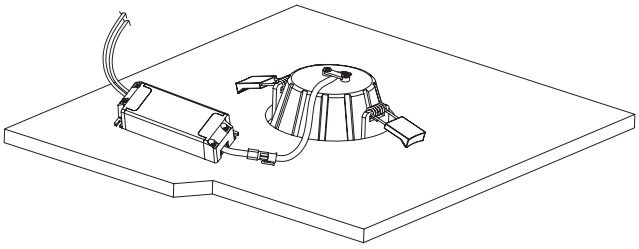


2. Use screw-driver to open the driver terminal cover, feed the main AC wire L. N. in terminal block respectively, then fix the cover back.





3. Connect the downlight with driver, hold back the spring clip then push the downlight into the hole.



4. Make sure the downlight fixed tightly in ceiling, turn on the power (Fig 1).

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	46*45.5*26	0.64	11.5	12

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	505	6060	28
40" standard container	1010	12120	56

