LIGHTING

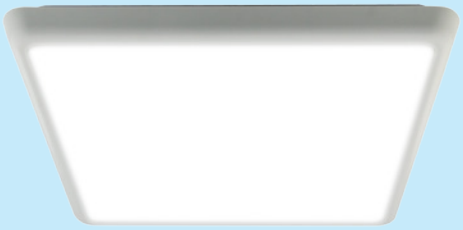
FDV

BA-lighting

LED Superslim

BA231-AL12-12-18W

Introduction



BA- lighting surface mounted ceiling light adopts high lumen SMD LED, fire-rated PC diffuser with even light output. IP54 waterproof structural design, it is an ideal replacement for damp locations. driver in top branded component with triac dimmable function, 120°wide beam angle.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Dimmable when using triac dimmer
- 120° wide beam angle
- CCT: 3000K 4000K
  5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP54 for indoor use only
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

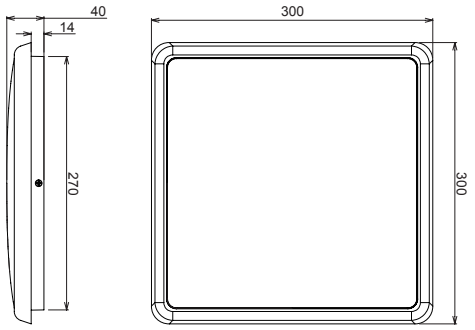
Application Areas

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 APPROVALS TÜVRheinland

Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
BA-AL12-12-18W	AC230V	18W	≥0.9	1494	120°	3000K	50000h	≥80	No	300*300*40mm
BA-AL12-12-18W	AC230V	18W	≥0.9	1584	120°	4000K	50000h	≥80	No	300*300*40mm
BA-AL12-12-18W	AC230V	18W	≥0.9	1602	120°	5000K	50000h	≥80	No	300*300*40mm
BA-AL12-12-18W	AC230V	18W	≥0.9	1512	120°	5700K	50000h	≥80	No	300*300*40mm
BA-AL12-12-18W-D	**AC230V**	**18W**	**≥0.9**	**1494**	**120°**	**3000K**	**50000h**	**≥80**	**Yes**	**300*300*40mm**
BA-AL12-12-18W-D	AC230V	18W	≥0.9	1584	120°	4000K	50000h	≥80	Yes	300*300*40mm
BA-AL12-12-18W-D	AC230V	18W	≥0.9	1602	120°	5000K	50000h	≥80	Yes	300*300*40mm
BA-AL12-12-18W-D	AC230V	18W	≥0.9	1512	120°	5700K	50000h	≥80	Yes	300*300*40mm

Driver data Sheet

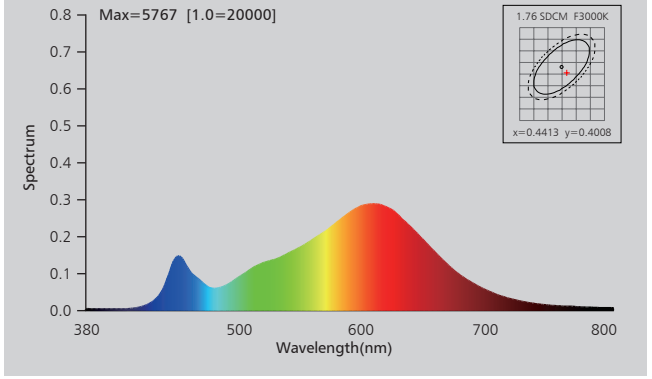
Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥88%	≥88%
No load wattage	≤0.5W	≤0.4W
Total load Wattage	18W±1W	18W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.09A	≤0.09A
Full load output Voltage	60-75V	60-75V
Rated output current	230mA	230mA
Output current range	230mA±5%	230mA±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
Withstand voltage	AC3750V	AC3750V

Fixture Compatibility

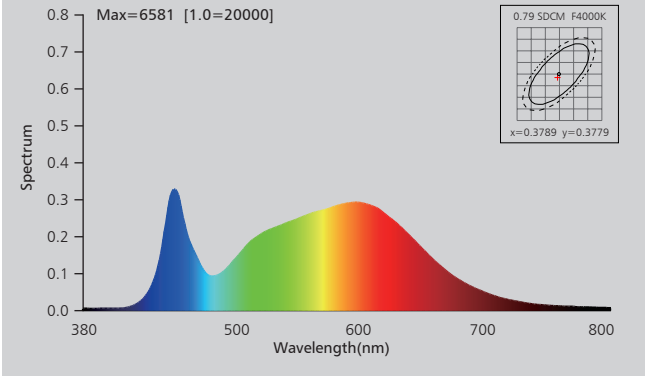
Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
18W	II	IP54	-20°C~45°C	0~90%	-20°C~65°C

Spectral Distribution

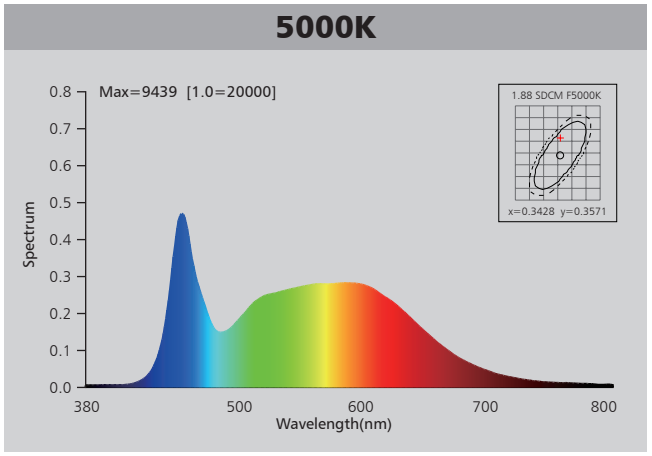
3000K



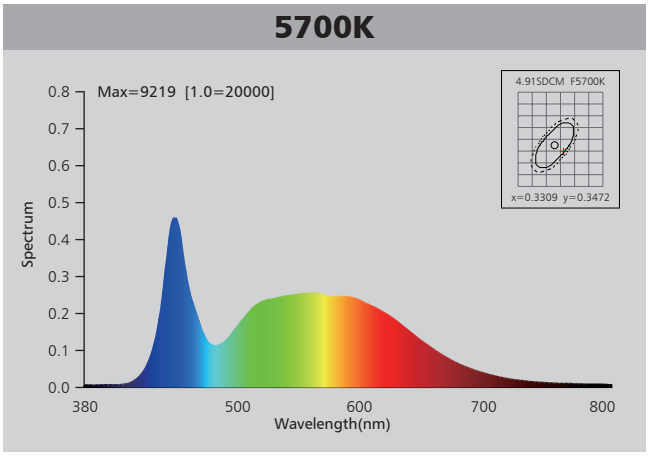
4000K



5000K

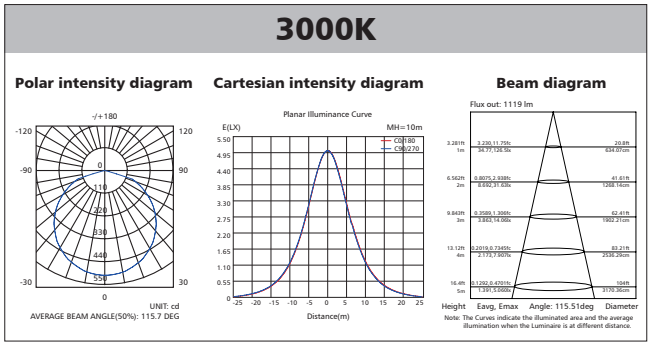


5700K

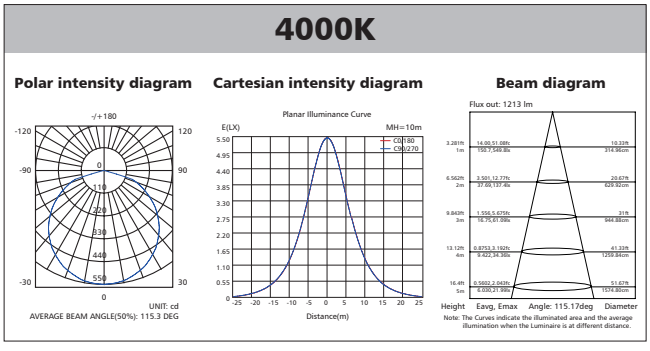


Photometric Diagram

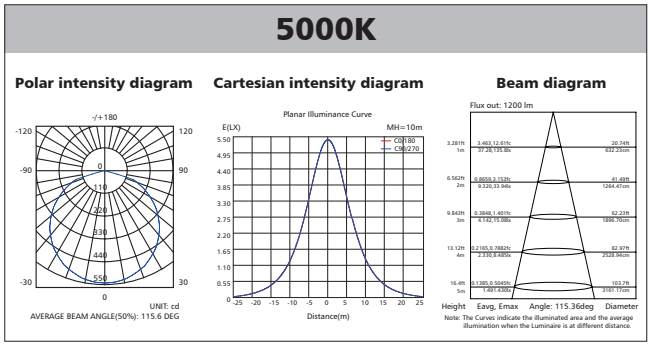
3000K



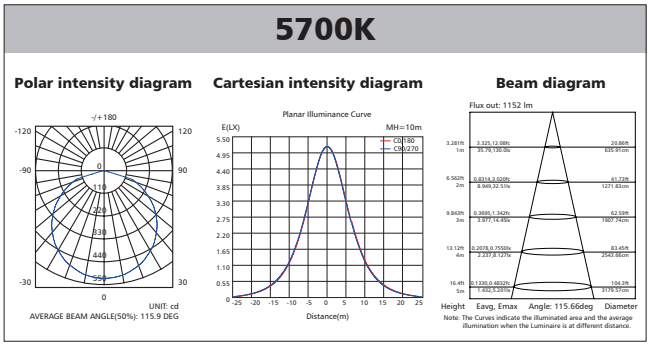
4000K



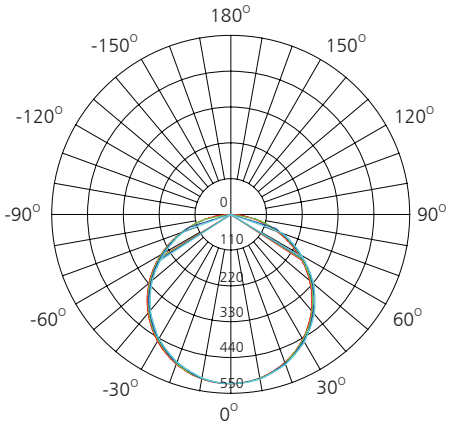
5000K



5700K



Polar Diagram Comparison

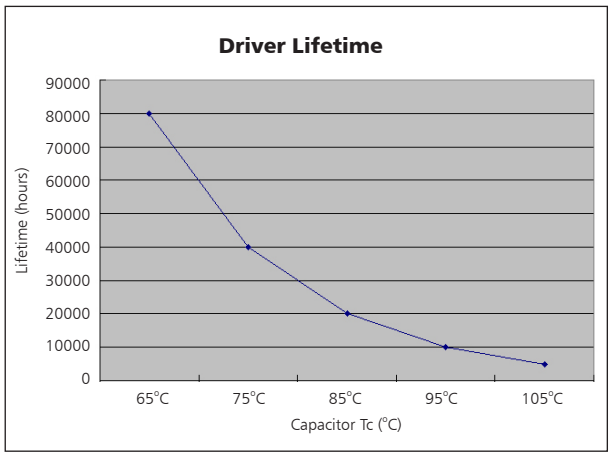


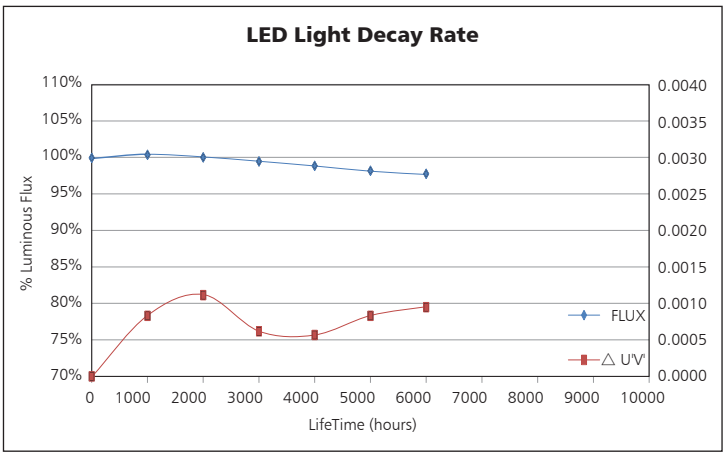
AVERAGE BEAM ANGLE (50%): 115.9DEG

UNIT: cd

- C0/180, 115.8 deg
- C30/210, 116.2 deg
- C60/240, 116.0 deg
- C90/270, 115.6 deg

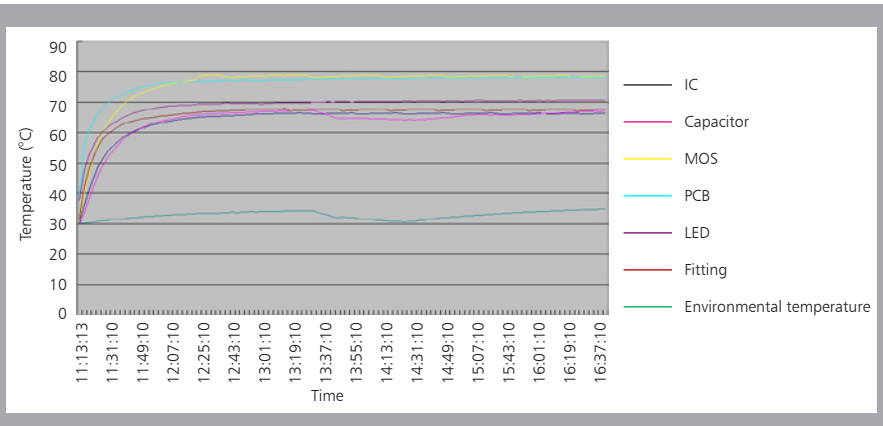
Driver lifetime & LED light decay rate





Temperature

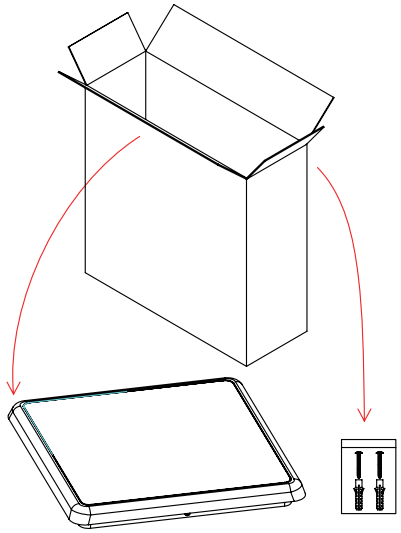
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



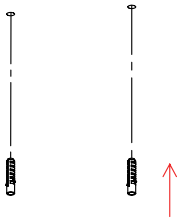
The driver lifespan is based on capacitor working temperature.

Installation

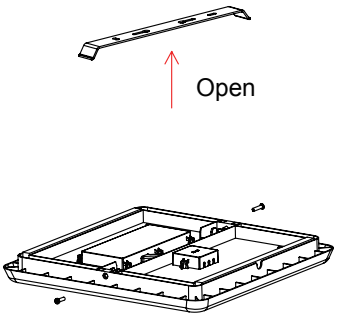
1.Take out ceiling light and accessory pack from box



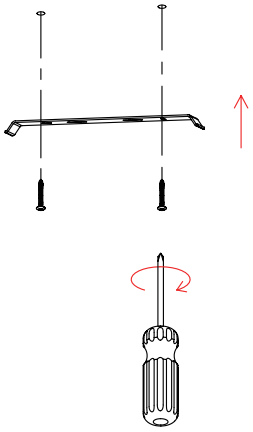
2. Knock-in the plastic anchor into ceiling



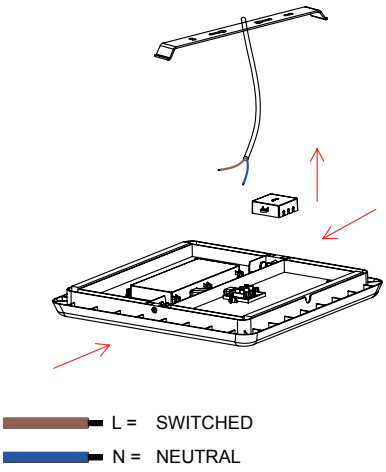
3. Remove screw, take out bracket



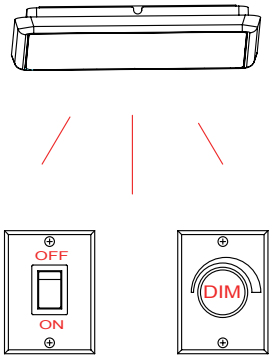
4. Fix bracket with screw into the ceiling



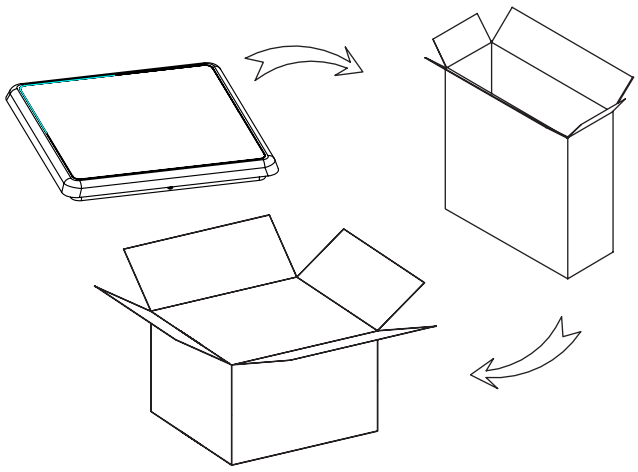
5. Open junction box, wire"L""N" to terminal block and mount ceiling light into the right place



6. Switch on



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	53*32.5*33.5	1.2	13	10

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	477	4770	28
40" standard container	954	9540	56