LIGHTING



# FDV
# BA-Lighting AS
BA222-AL08-10-12WD

# Introduction





BA- Lighting AS 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 40,000 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

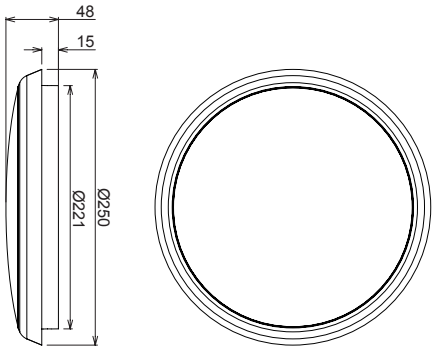
## Application Areas

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 TÜVRheinland

# Product Information




## Technical Specifications

| Model | Voltage | Power | Power Factor | Lumen (±5%) | Beam angle | CCT | Lifespan | CRI | Dimmable | Dimension |
|---|---|---|---|---|---|---|---|---|---|---|
| BA-AL08-10-12W | AC230V | 12W | ≥0.9 | 996 | 120° | 3000K | 40000h | ≥80 | No | Ø250*48mm |
| BA-AL08-10-12W | AC230V | 12W | ≥0.9 | 1056 | 120° | 4000K | 40000h | ≥80 | No | Ø250*48mm |
| BA-AL08-10-12W | AC230V | 12W | ≥0.9 | 1068 | 120° | 5000K | 40000h | ≥80 | No | Ø250*48mm |
| BA-AL08-10-12W | AC230V | 12W | ≥0.9 | 1020 | 120° | 5700K | 40000h | ≥80 | No | Ø250*48mm |
| BA-AL08-10-12W-D | AC230V | 12W | ≥0.9 | 996 | 120° | 3000K | 40000h | ≥80 | Yes | Ø250*48mm |
| BA-AL08-10-12W-D | AC230V | 12W | ≥0.9 | 1056 | 120° | 4000K | 40000h | ≥80 | Yes | Ø250*48mm |
| BA-AL08-10-12W-D | AC230V | 12W | ≥0.9 | 1068 | 120° | 5000K | 40000h | ≥80 | Yes | Ø250*48mm |
| BA-AL08-10-12W-D | AC230V | 12W | ≥0.9 | 1020 | 120° | 5700K | 40000h | ≥80 | Yes | Ø250*48mm |

## Driver data Sheet

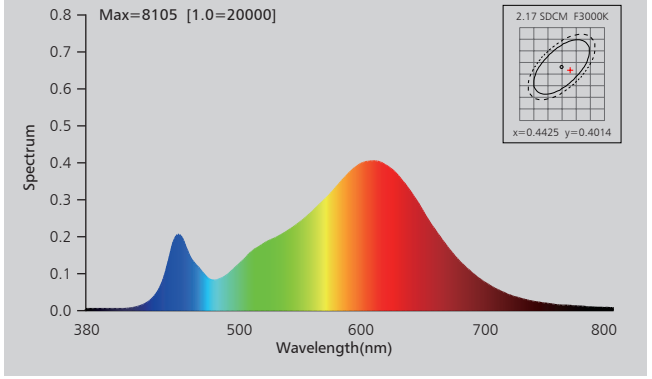
| Driver data | DIM | Non-dim |
|---|---|---|
| Input rated Voltage | AC230V | AC230V |
| Frequency | 50Hz | 50Hz |
| Input Voltage | AC200-240V | AC200-240V |
| Efficiency | ≥88% | ≥88% |
| No load wattage | ≤0.5W | ≤0.4W |
| Total load Wattage | 12W±1W | 12W±1W |
| Power Factor | ≥0.9 | ≥0.9 |
| Rated input current | ≤0.07A | ≤0.07A |
| Full load output Voltage | 60-75V | 60-75V |
| Rated output current | 150mA | 150mA |
| Output current range | 150mA±5% | 150mA±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

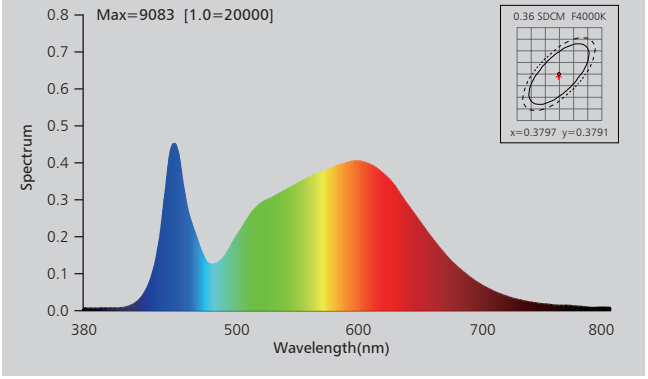
| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---|---|---|---|---|---|
| 12W | II | IP54 | -20°C~45°C | 0~90% | -20°C~65°C |

# Spectral Distribution

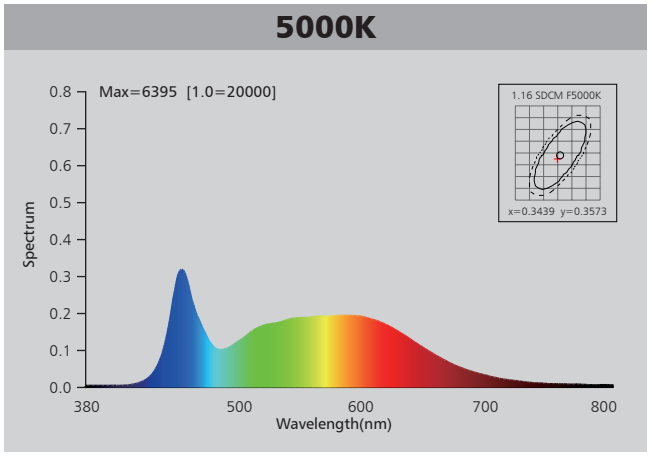
## 3000K



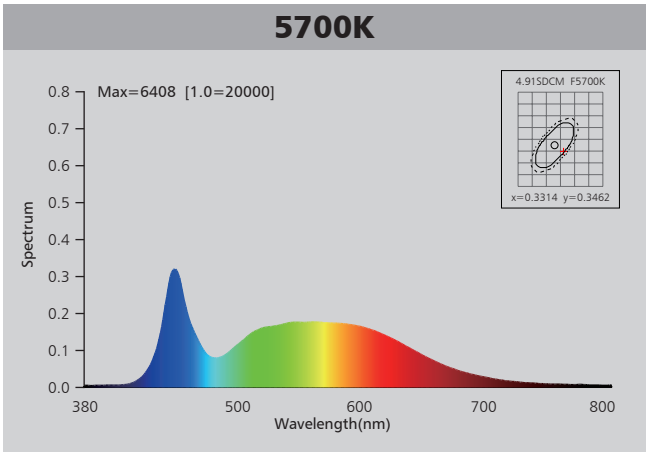

## 4000K




## 5000K

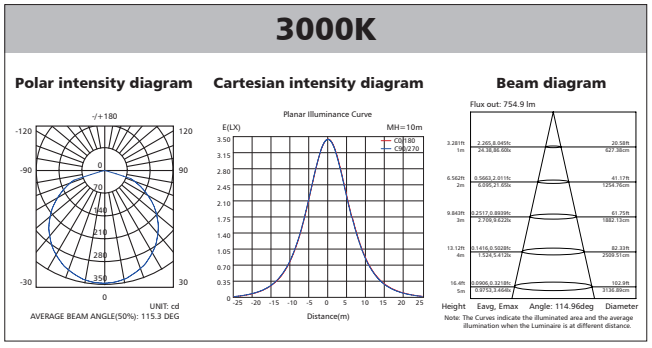



## 5700K

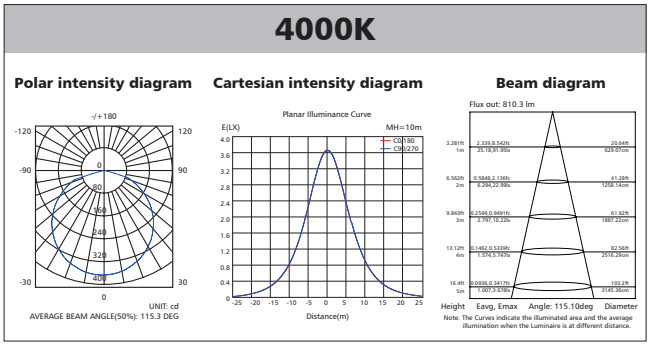



# Photometric Diagram

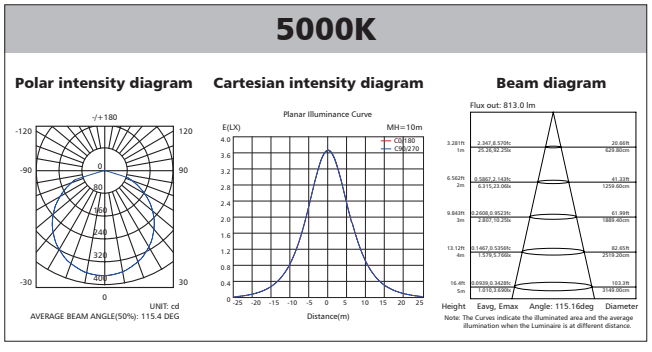
## 3000K



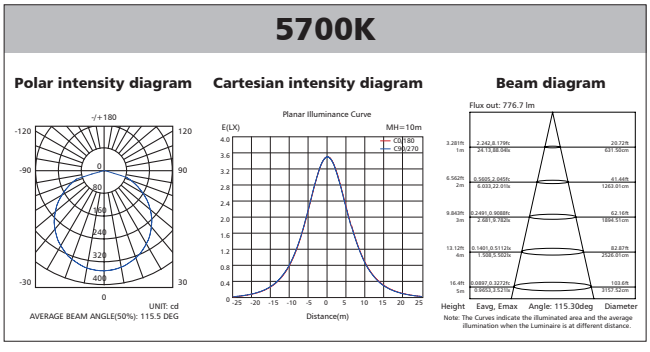

## 4000K



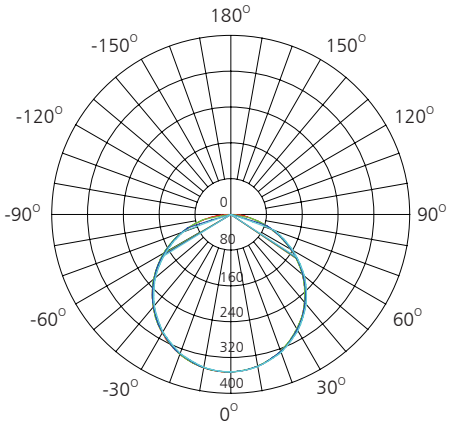

## 5000K




## 5700K



## Polar Diagram Comparison



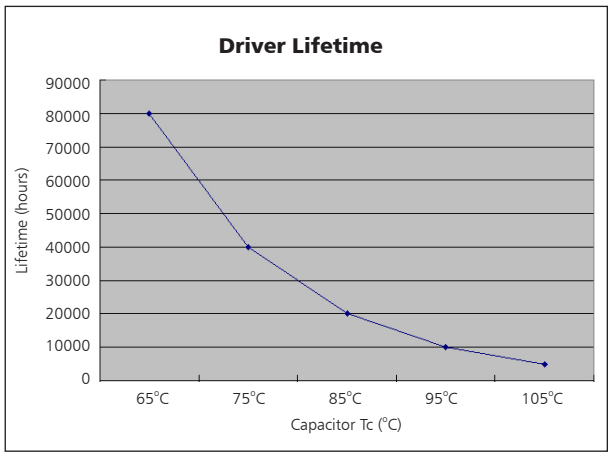

AVERAGE BEAM ANGLE (50%): 115.5 DEG

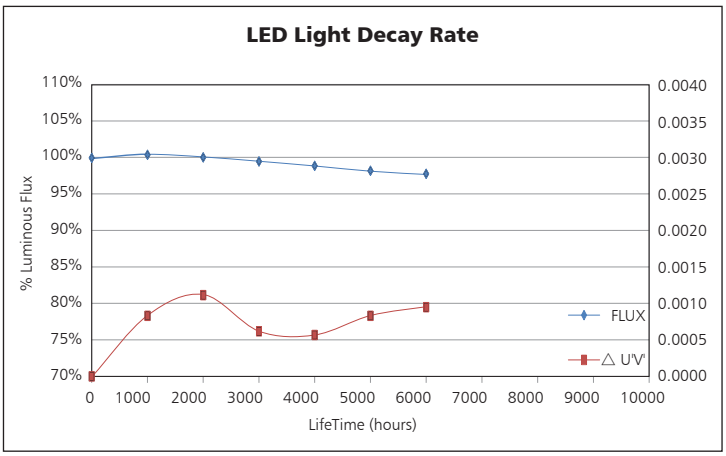
**UNIT: cd**

- C0/180, 115.4 deg
- C30/210, 115.7 deg
- C60/240, 115.6 deg
- C90/270, 115.3 deg



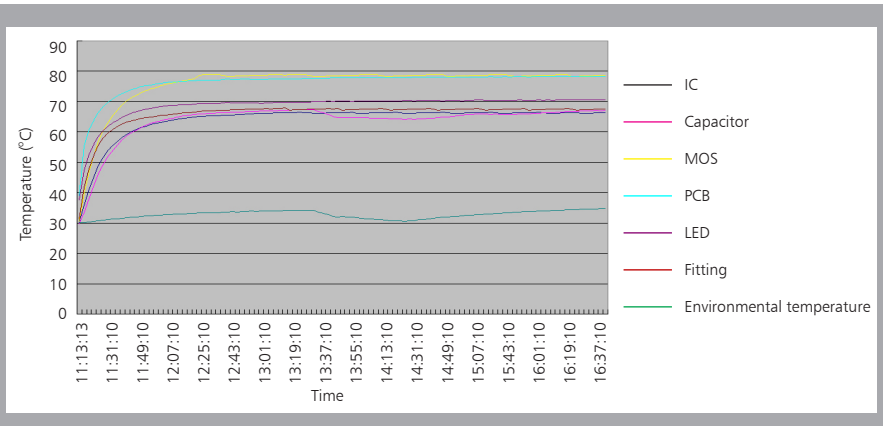
## Driver lifetime & LED light decay rate




## 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

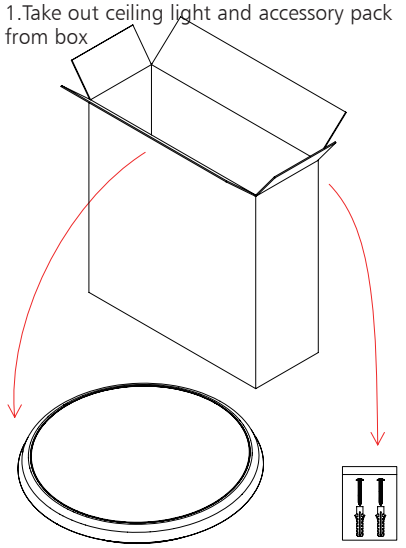




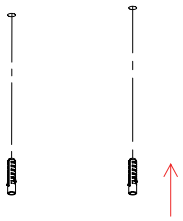

The driver lifespan is based on capacitor working temperature.

## Installation

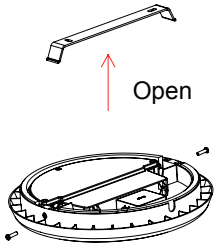
1.Take out ceiling light and accessory pack from box



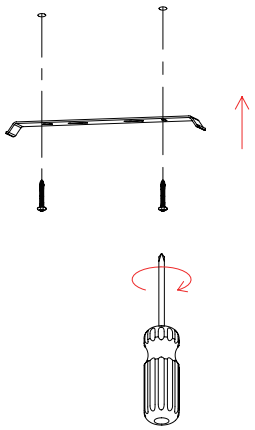
2. Knock-in the plastic anchor into ceiling



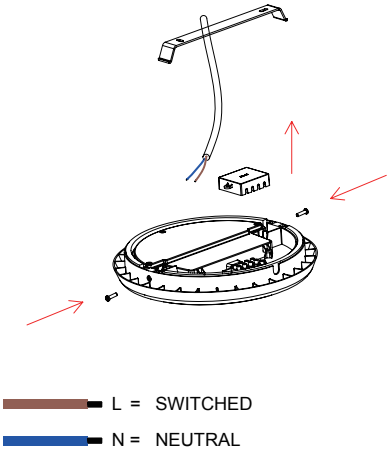
3. Remove screw, take out bracket



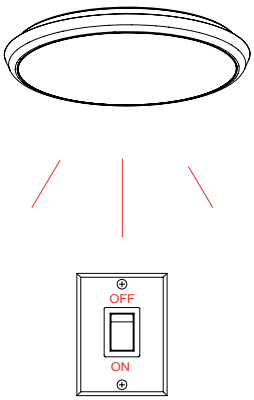

4. Fix bracket with screw into the ceiling



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



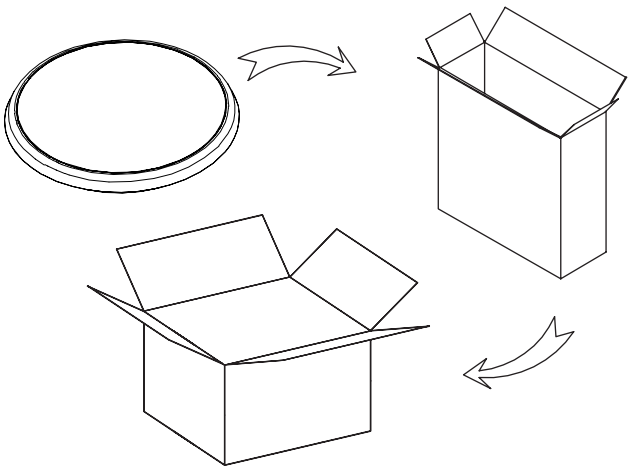

6. Switch on




## Packaging Information

| | SIZE(CM) | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCS) |
|---|---|---|---|---|
| Carton | 61*53.5*28.5 | 0.61 | 16.8 | 20 |

| | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|---|---|---|---|
| 20" standard container | 297 | 5940 | 28 |
| 40" standard container | 595 | 11900 | 56 |



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