



FDV

BA- Lighting AS

BA385-AL47-12-18WD

# Introduction



Flying saucer-shaped led ceiling light, super slim and minimalistic design; it is a faultless combination and deduction of smooth lines, making itself impregnated with ceiling perfectly. Elegant design with soft and even light output realizes a perfect blend of craft and art. High quality PC lamp body promises a higher production efficiency and more stable product quality without any subsequent process. Superior PC diffuser with excellent performance, fire rated UL94-V0, aging resistance and yellowing resistance make this ceiling light with longer lifespan. Slim and light lamp body also in PC, it is a good way to minimize the cost of transportation for customer. Replaceable built-in power supply design with easy maintenance. The driver also adopts fire resistant PC material with higher insulating strength, which promises absolute security. Easy installation, it is twist mounting after fixing the holder on the ceiling, avoid extra nail screw work, safe and convenient.

- 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
- 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

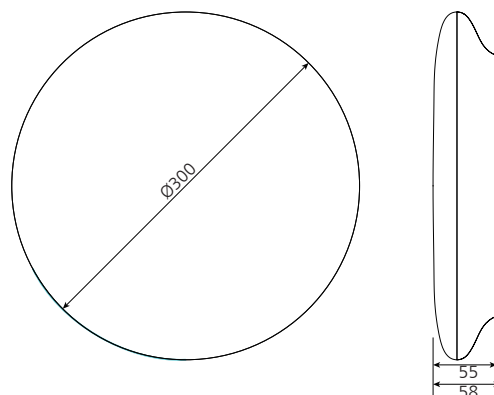
Suitable for commercial and residential applications like office, supermarket, shop, school, hotel, restaurant, workshop, warehouse, home etc.

## Certificate

**CE RoHS SAA**



# Product Information



## Technical Specifications

| Model                  | Voltage    | Power | Power Factor | Lumen (±5%) | Beam angle | CCT   | Lifespan | CRI | Dimmable | Dimension |
|------------------------|------------|-------|--------------|-------------|------------|-------|----------|-----|----------|-----------|
| BA-AL47-12-18W         | AC100-240V | 18W   | ≥0.9         | 1790        | 120°       | 3000K | 50000h   | ≥80 | No       | Ø300*58mm |
| BA-AL47-12-18W         | AC100-240V | 18W   | ≥0.9         | 1900        | 120°       | 4000K | 50000h   | ≥80 | No       | Ø300*58mm |
| BA-AL47-12-18W         | AC100-240V | 18W   | ≥0.9         | 1830        | 120°       | 5000K | 50000h   | ≥80 | No       | Ø300*58mm |
| BA-AL47-12-18W         | AC100-240V | 18W   | ≥0.9         | 1820        | 120°       | 5700K | 50000h   | ≥80 | No       | Ø300*58mm |
| BA-AL47-12-18WD        | AC230V     | 18W   | ≥0.9         | 1740        | 120°       | 3000K | 50000h   | ≥80 | Yes      | Ø300*58mm |
| <b>BA-AL47-12-18WD</b> | AC230V     | 18W   | ≥0.9         | 1840        | 120°       | 4000K | 50000h   | ≥80 | Yes      | Ø300*58mm |
| BA-AL47-12-18WD        | AC230V     | 18W   | ≥0.9         | 1770        | 120°       | 5000K | 50000h   | ≥80 | Yes      | Ø300*58mm |
| BA-AL47-12-18WD        | AC230V     | 18W   | ≥0.9         | 1760        | 120°       | 5700K | 50000h   | ≥80 | Yes      | Ø300*58mm |

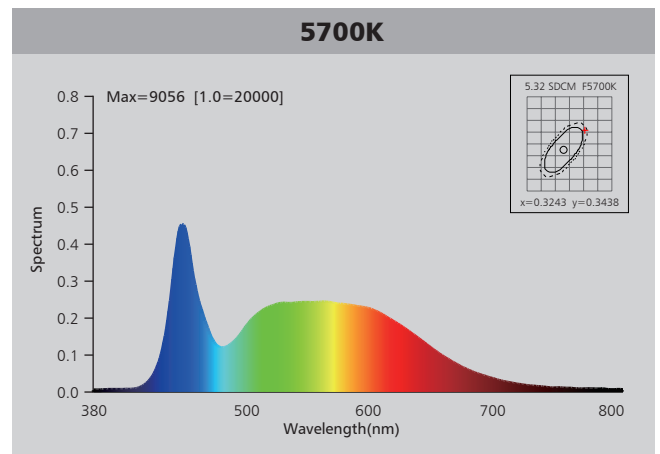
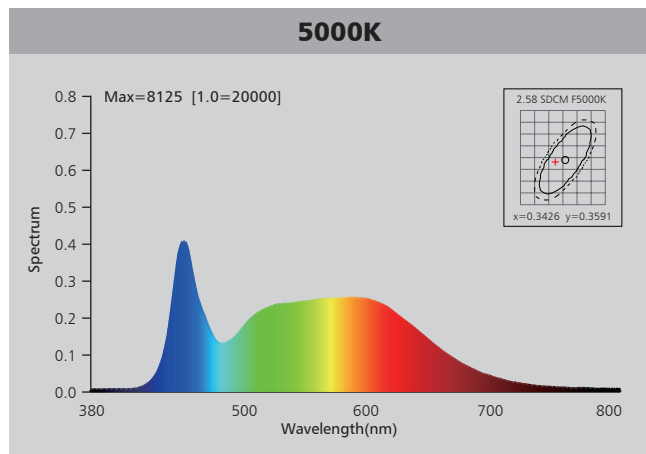
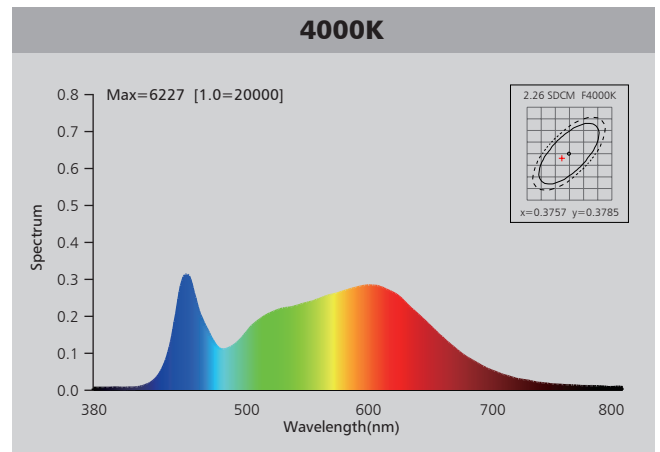
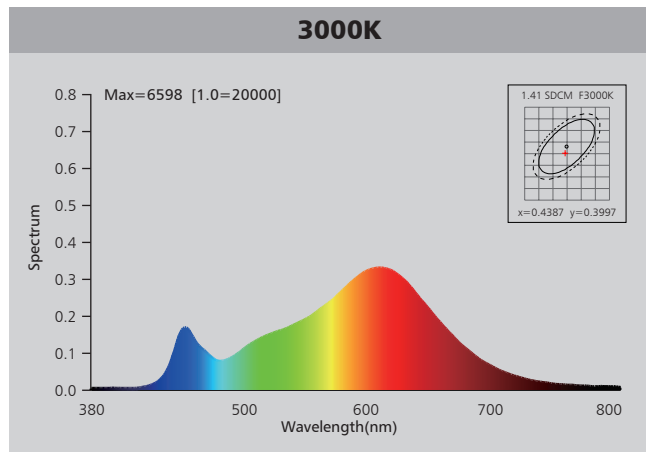
## Driver data Sheet

| Driver data                 | DIM           | Non-dim    |
|-----------------------------|---------------|------------|
| Input rated Voltage         | AC230V        | AC100-240V |
| Frequency                   | 50Hz          | 50/60Hz    |
| Input Voltage               | AC200-240V    | AC85-265V  |
| Efficiency                  | ≥83%          | ≥88%       |
| Total load Wattage          | 18W±1W        | 18W±1W     |
| Power Factor                | ≥0.9          | ≥0.9       |
| Rated input current         | ≤0.1A         | ≤0.2A      |
| Full load output Voltage    | DC65-75V      | DC60-75V   |
| Rated output current        | 225mA         | 240mA      |
| Output current range        | 225mA±5%      | 240mA±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           | —             | —          |

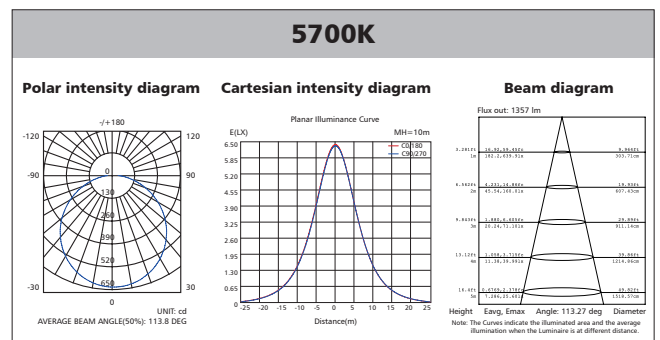
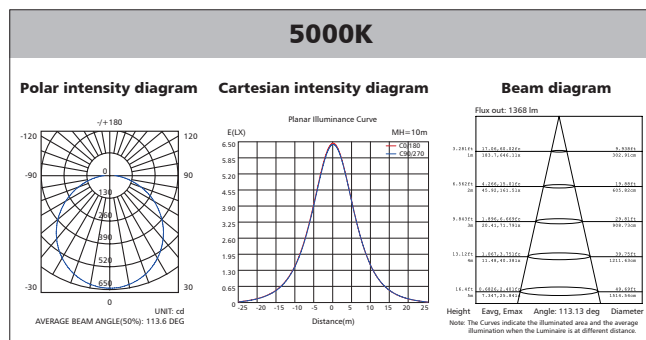
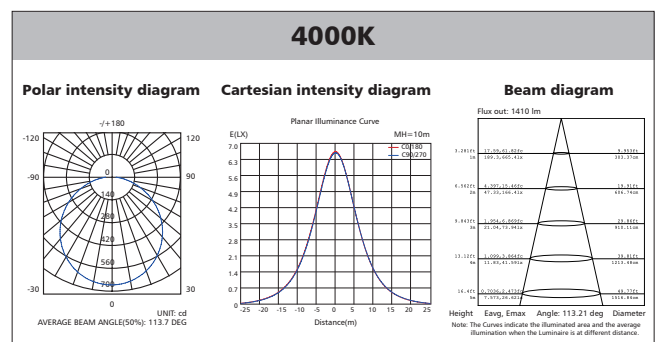
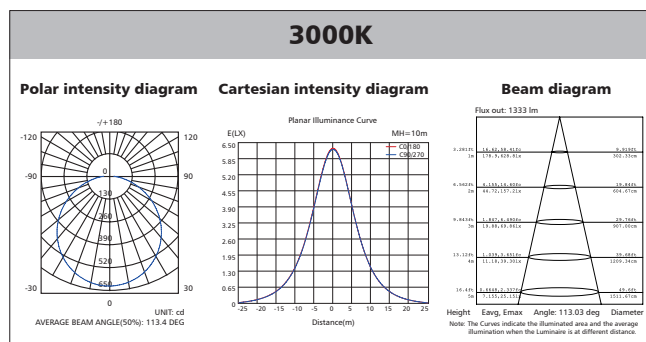
## Fixture Compatibility

| 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   |

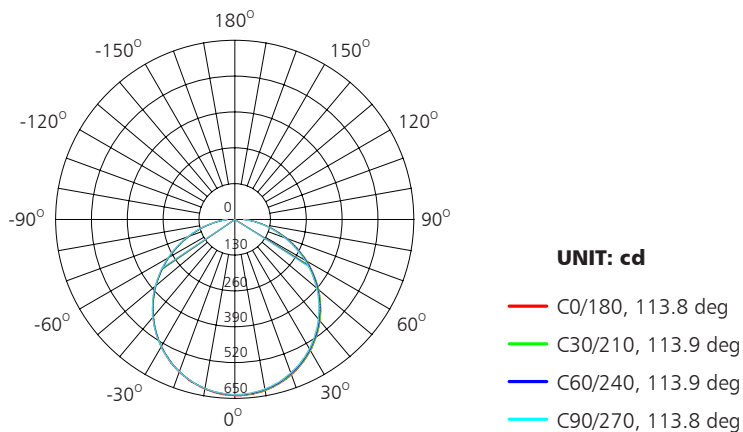
# Spectral Distribution



# Photometric Diagram



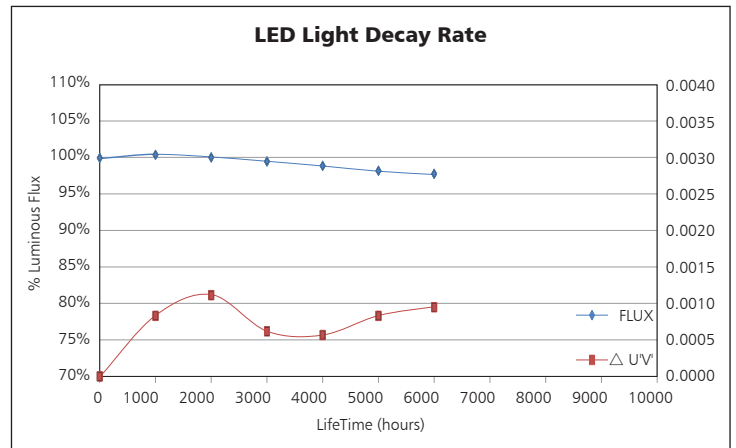
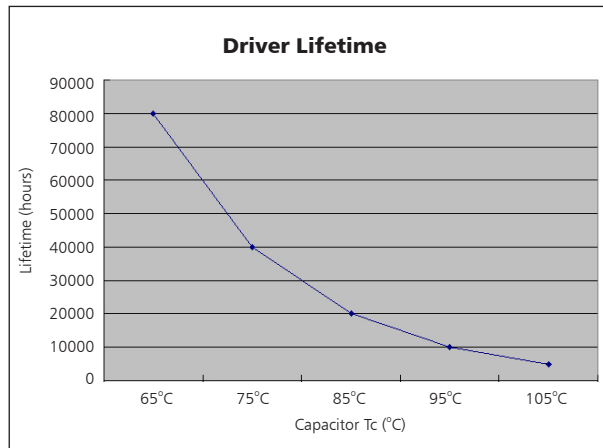
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 113.8 DEG

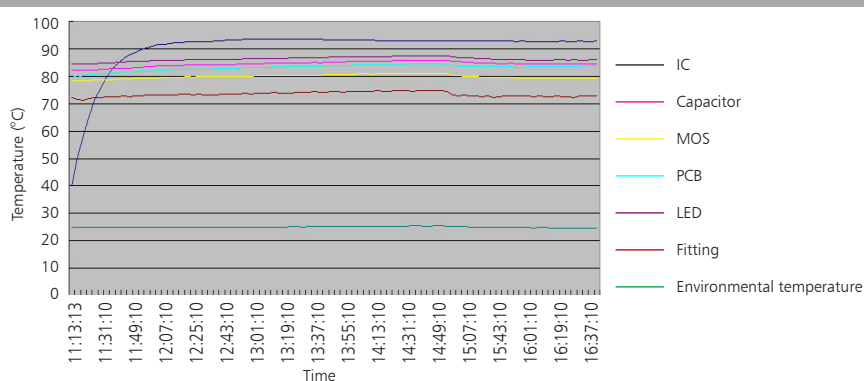


## Driver lifetime & LED light decay rate



## Temperature

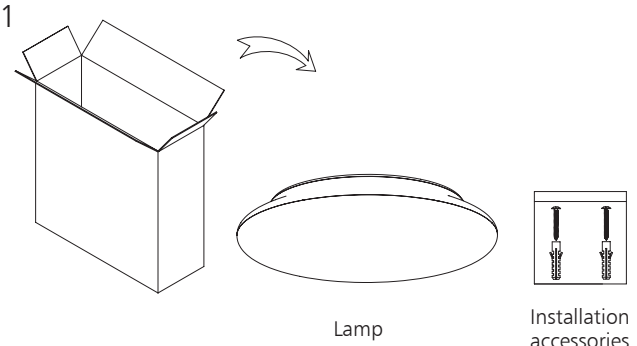
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.

## Installation

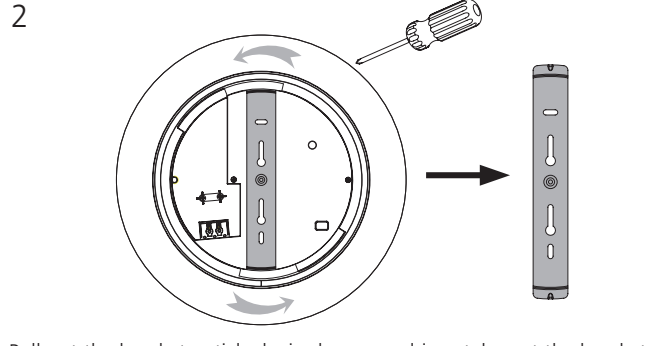
**1**



Lamp

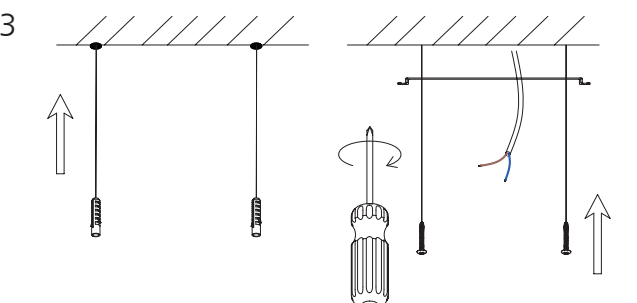
Installation accessories

**2**



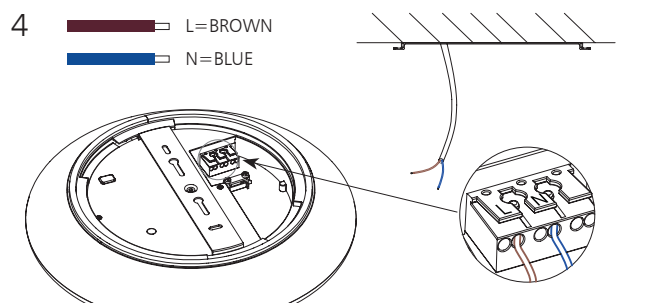
Pull out the bracket anticlockwise by screw driver, take out the bracket.

**3**



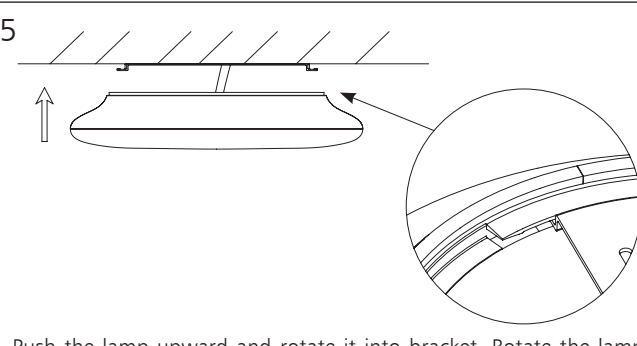
Knock the plastic anchor into ceiling, fix the bracket with screws on the ceiling.

**4**



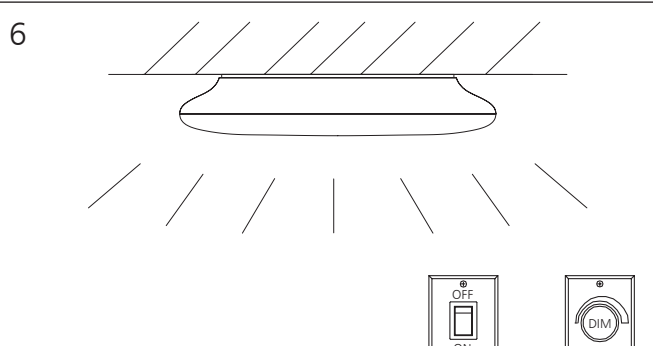
Wire "L""N" to terminal block.

**5**



Push the lamp upward and rotate it into bracket. Rotate the lamp clockwise until it is firmly fixed.

**6**



## Packaging Information

|        | SIZE(CM) | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCS) |
|--------|----------|--------------|-----------|-----------|
| Carton | 73*33*33 | 0.76         | 10.5      | 10        |

|                        | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 345  | 3450      | 28          |
| 40" standard container | 690  | 6900      | 56          |

