

**BA**  
LIGHTING



FDV

BA- Lighting AS

BA229-DL22-6-18WD

# Introduction



BA- Lighting AS COB downlight is unique designed with reflector and Citizen COB high power LED chip. ADC12 Aluminum profile provides excellent thermal dissipation. Short heatsink designed for any ceiling installations. Isolated driver solution both in dimmable and non-dimmable version achieves great dimming compatibility with worldwide brand dimmers.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Triac dim, 0-10V dim, DALI dim
- 36°/60° wide beam angle
- 160-170mm cutout
- CCT: 2700K 3000K  
4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

## Application notes

- IP20/IP44 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.

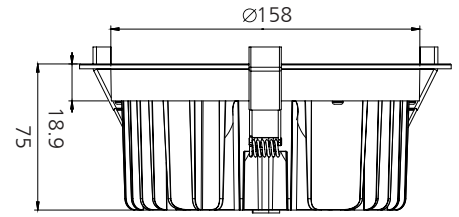
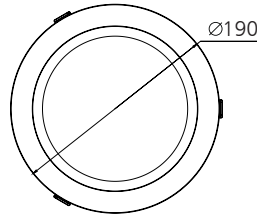
## Certificate



RoHS



# Product Information



## Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL22-6-18W	AC230V	18W	≥0.9	1300	36°/60°	2700K	50000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W	AC230V	18W	≥0.9	1350	36°/60°	3000K	50000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W	AC230V	18W	≥0.9	1530	36°/60°	4000K	50000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W	AC230V	18W	≥0.9	1500	36°/60°	5000K	50000h	≥80	No	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W-D	AC230V	18W	≥0.9	1280	36°/60°	2700K	50000h	≥80	Yes	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W-D	AC230V	18W	≥0.9	1330	36°/60°	3000K	50000h	≥80	Yes	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W-D	AC230V	18W	≥0.9	1510	36°/60°	4000K	50000h	≥80	Yes	Ø190*75mm cutout 160-170mm
UP-DL22-6-18W-D	AC230V	18W	≥0.9	1470	36°/60°	5000K	50000h	≥80	Yes	Ø190*75mm cutout 160-170mm

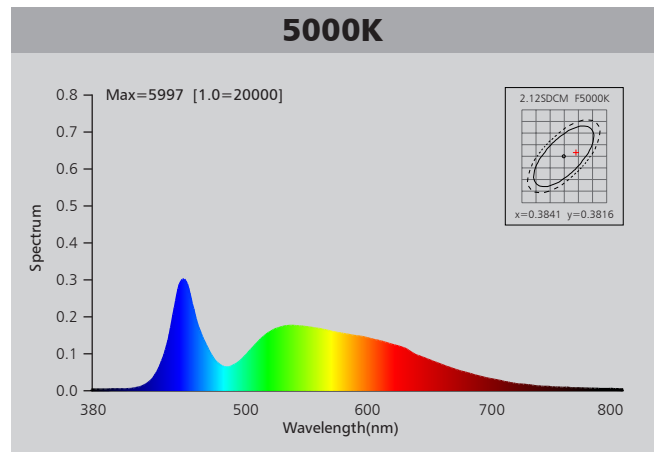
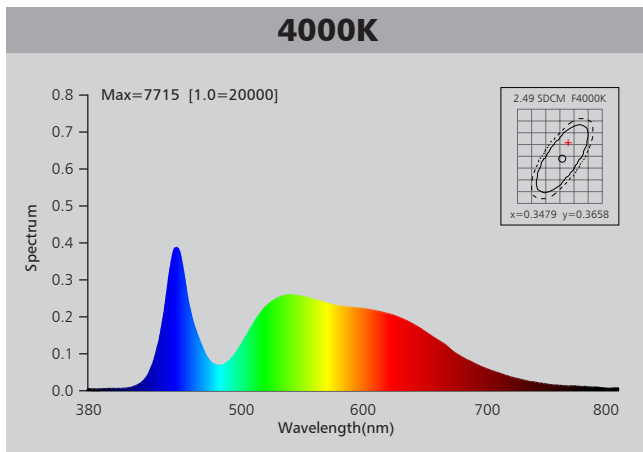
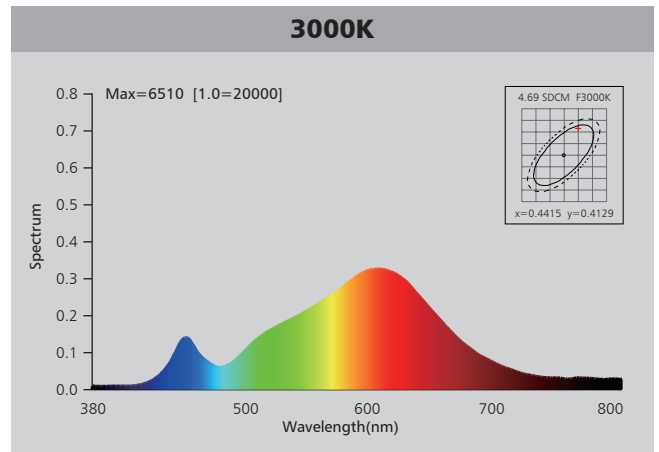
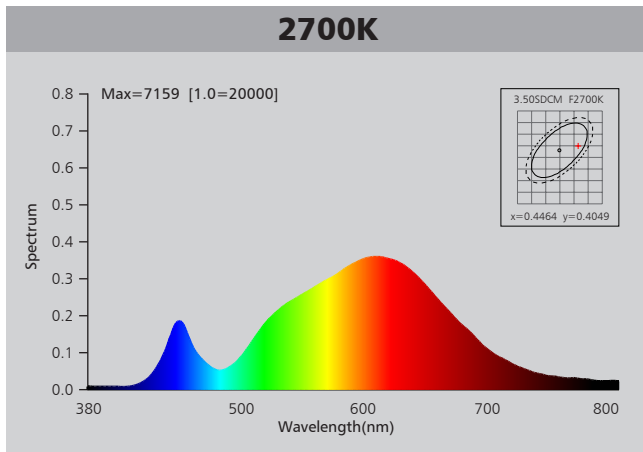
## Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥80%	≥87%
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	430mA	420mA
Output current range	430mA±5%	420mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	—
Dimmer	Triac dimmers	—
THD	<18%	<18%
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	NC
Withstand voltage	AC3750V	AC3750V

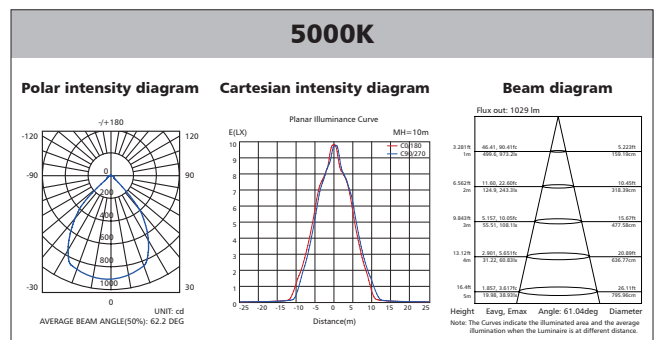
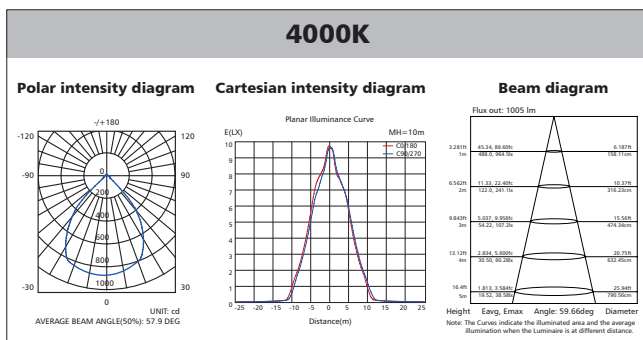
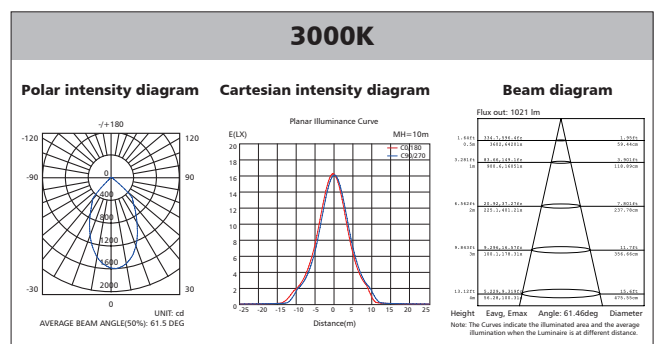
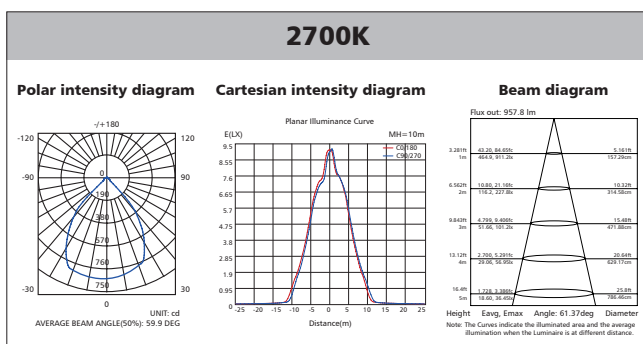
## Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
18W	II	IP20/IP44	-20°C~45°C	0~90%	-20°C~65°C

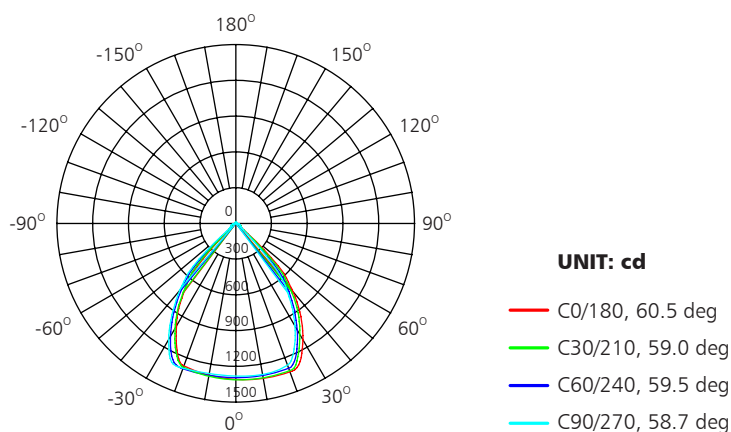
# Spectral Distribution



# Photometric Diagram



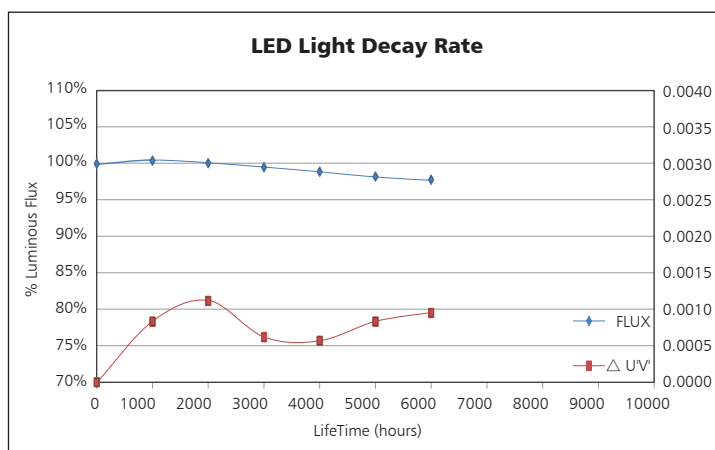
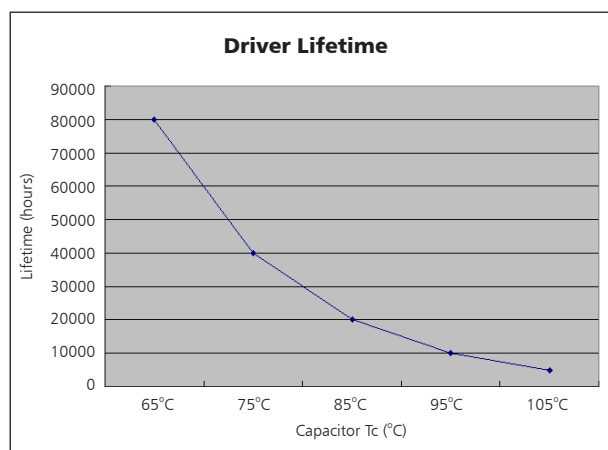
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 59.3DEG

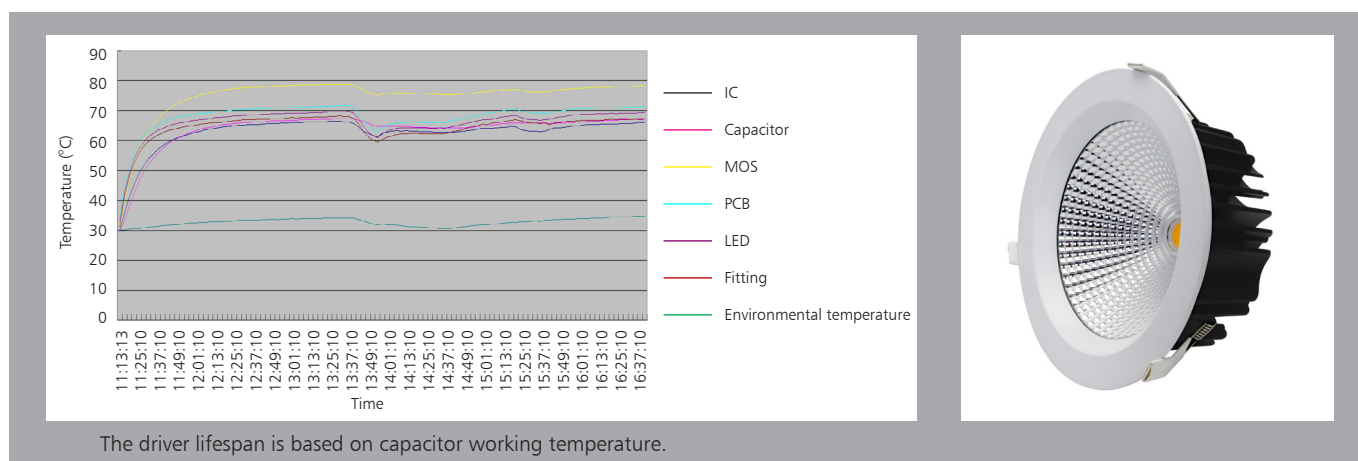


## Driver lifetime & LED light decay rate



## 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

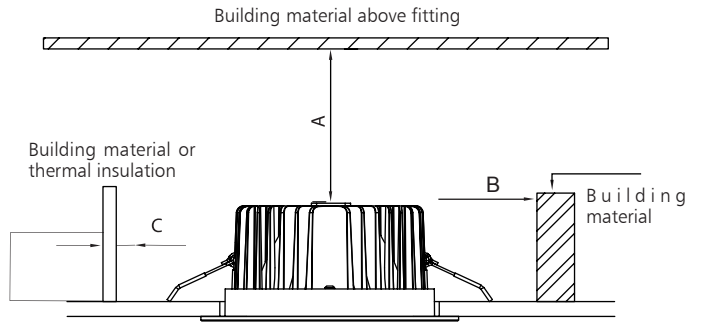


The driver lifespan is based on capacitor working temperature.



# Installation

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



<p><b>Ceiling Opening</b></p> <p style="text-align: right;">1</p>	<p><b>Connect Power supply</b></p> <p style="text-align: right;">2</p>
<p><b>A. Hold back spring clips</b></p> <p><b>B. Push downlight into position</b></p> <p style="text-align: right;">3</p>	<p><b>Finish</b></p> <p style="text-align: right;">4</p>

# Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	66*46*27	1.42	18	12

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	340	4080	28
40" standard container	680	8160	56

