LIGHTING



FDV

BA- Lighting

BA251-PL30120-42WD-G3

Introduction



The unified glare rating (UGR) is a measure of the glare in a given environment, Glare is caused by a significant ratio of luminance between the task (that which is being looked at) and the glare source. With a lower value of UGR, it will reduce discomfort glare.

Up-shine UGR<19 LED panel, a new tendency for high end market, adopts anti-glare diffuser, reduces glare by structural improvement. It is unique designed with uniform light and high lumen output. Dimmable as an alternative choice if you need.

- Up to 80% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Triac dim, 0-10V dim, DALI dim
- UGR<19
- 80° wide beam angle
- CCT: 3000K 4000K
  5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP40 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

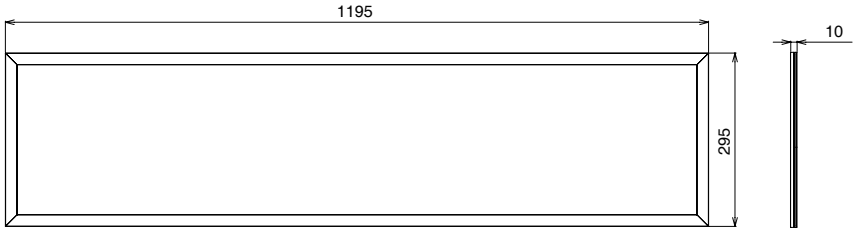
Office & school lighting: office room, meeting room, class room etc.
Commercial lighting: shopping mall, super market, retailer shops etc.
Other situations: hospital, laboratory, dust-free workshop etc.

Certificates

CE RoHS SAA APPROVALS



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
BA-PL30120-42W-G3	AC100-240V	42W	≥0.9	4100	80°	3000K	50000h	≥80	No	1195*295*10mm
BA-PL30120-42W-G3	AC100-240V	42W	≥0.9	4200	80°	4000K	50000h	≥80	No	1195*295*10mm
BA-PL30120-42W-G3	AC100-240V	42W	≥0.9	4270	80°	5000K	50000h	≥80	No	1195*295*10mm
BA-PL30120-42W-G3	AC100-240V	42W	≥0.9	4350	80°	5700K	50000h	≥80	No	1195*295*10mm
BA-PL30120-42WD-G3	**AC230V**	**42W**	**≥0.9**	**3950**	**80°**	**3000K**	**50000h**	**≥80**	**Yes**	**1195*295*10mm**
BA-PL30120-42WD-G3	AC230V	42W	≥0.9	4050	80°	4000K	50000h	≥80	Yes	1195*295*10mm
BA-PL30120-42WD-G3	AC230V	42W	≥0.9	4120	80°	5000K	50000h	≥80	Yes	1195*295*10mm
BA-PL30120-42WD-G3	AC230V	42W	≥0.9	4200	80°	5700K	50000h	≥80	Yes	1195*295*10mm

Driver data Sheet

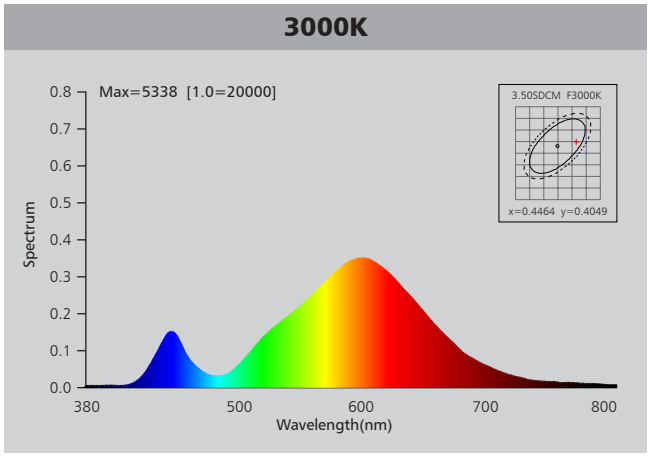
Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC100-240V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC85-265V
Efficiency	≥83%	≥86%
Total load Wattage	42W±5%	42W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.2A	≤0.47A
Full load output Voltage	DC35-38V	DC35-38V
Rated output current	950mA	1000mA
Output current range	950mA±5%	1000mA±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

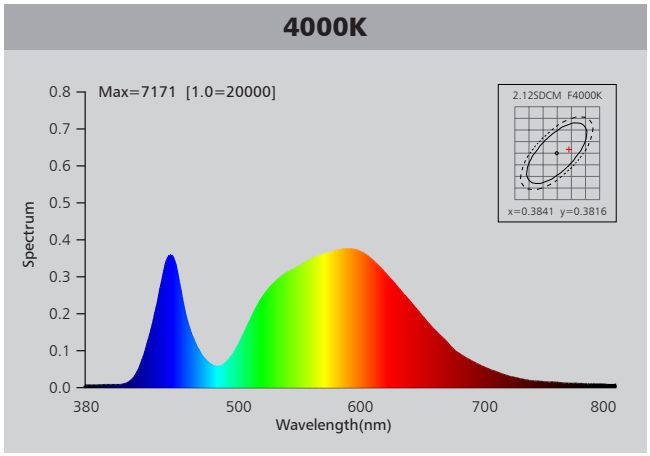
Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
42W	II	IP40	-20°C~45°C	0~90%	-20°C~65°C

Spectral Distribution

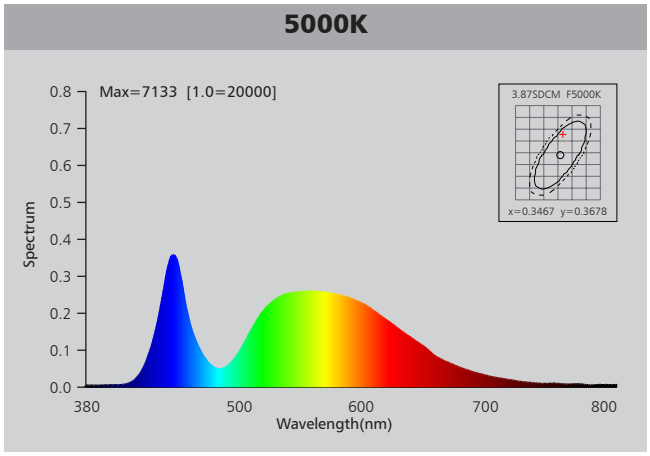
3000K



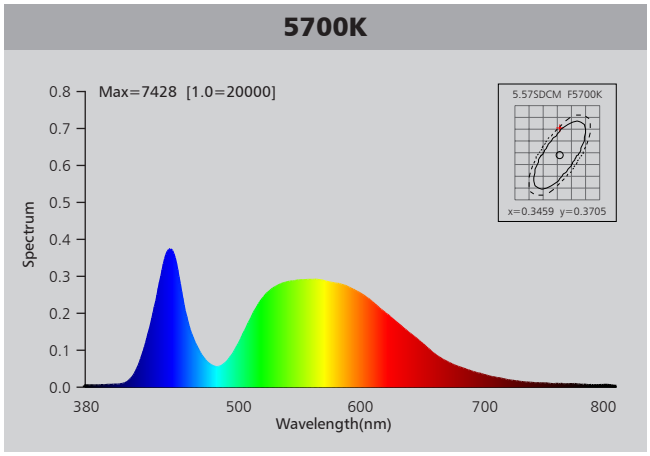
4000K



5000K

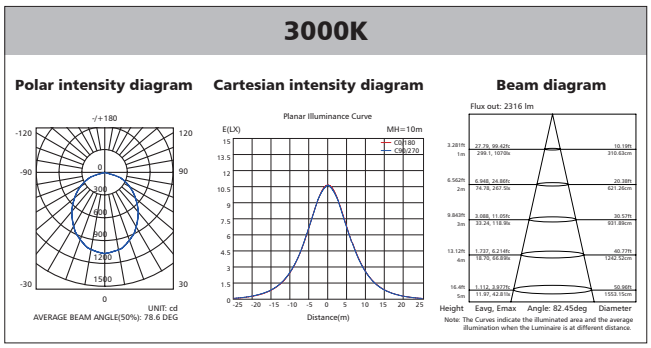


5700K

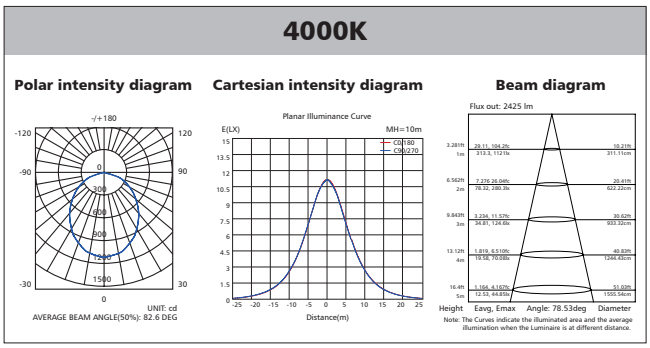


Photometric Diagram

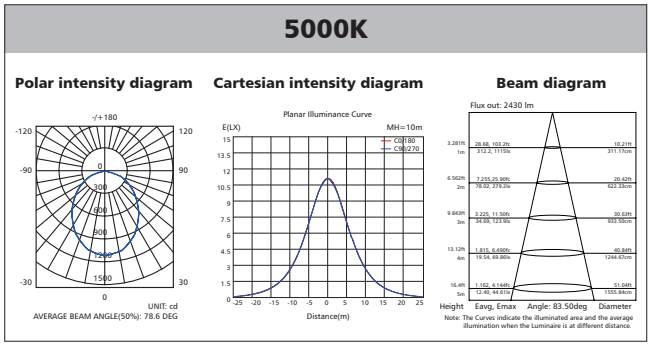
3000K



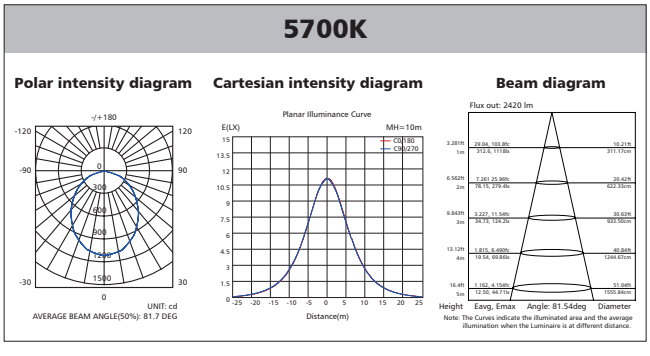
4000K



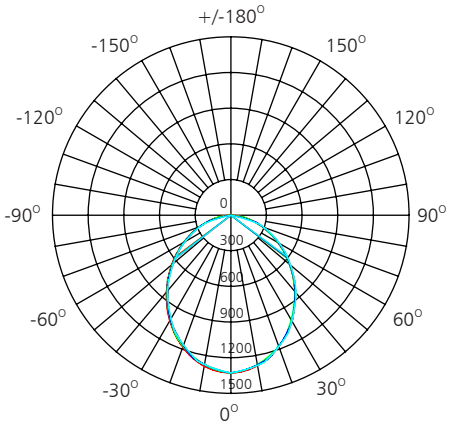
5000K



5700K



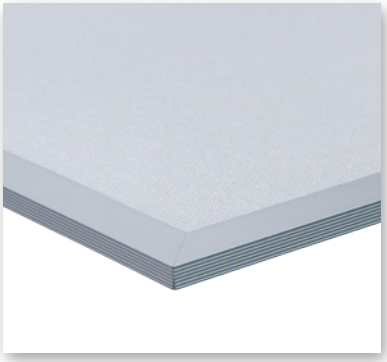
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 81.2DEG

UNIT: cd

- C0/180, 80.5 deg
- C30/210, 79.0 deg
- C60/240, 81.1 deg
- C90/270, 82.4 deg

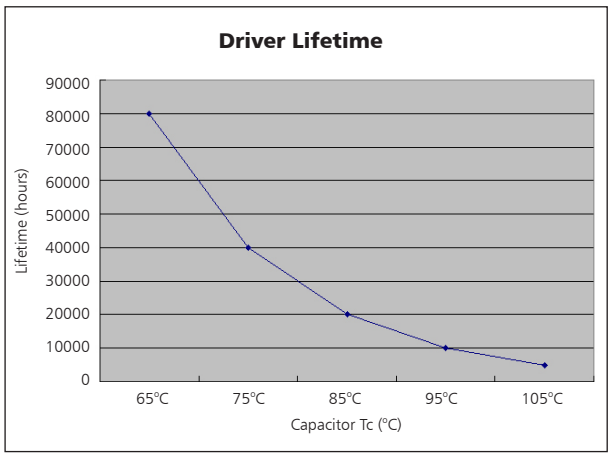


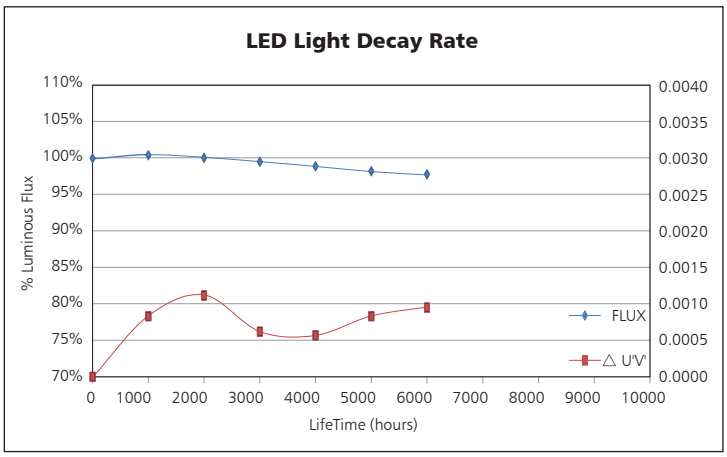
Uncorrected UGR Table

ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H	y = 2H	13.6	14.9	13.8	15.1	15.3	14.2	15.6	14.5	15.8	16.0
	3H	14.8	16.0	15.1	16.3	16.5	15.4	16.6	15.6	16.8	17.1
	4H	15.4	16.6	15.7	16.8	17.1	15.3	16.5	15.6	16.7	16.9
	6H	16.0	17.1	16.3	17.4	17.6	15.2	16.3	15.5	16.5	16.8
	8H	16.2	17.3	16.6	17.6	17.9	15.1	16.2	15.4	16.5	16.7
	12H	16.4	17.4	16.7	17.7	18.0	15.1	16.1	15.4	16.4	16.7
4H	2H	13.9	15.1	14.2	15.3	15.5	14.5	15.7	14.8	15.9	16.2
	3H	15.3	16.3	15.6	16.6	16.9	15.8	16.8	16.1	17.1	17.4
	4H	16.1	17.0	16.4	17.3	17.6	15.7	16.6	16.0	16.9	17.2
	6H	16.9	17.7	17.3	18.0	18.4	15.6	16.4	16.0	16.7	17.1
	8H	17.2	18.0	17.6	18.3	18.7	15.5	16.3	15.9	16.7	17.0
	12H	17.5	18.2	17.9	18.5	18.9	15.5	16.2	15.9	16.6	17.0
8H	4H	16.2	17.0	16.6	17.3	17.7	15.8	16.5	16.2	16.9	17.3
	6H	17.1	17.8	17.6	18.2	18.6	15.7	16.3	16.1	16.7	17.1
	8H	17.5	18.1	18.0	18.5	19.0	15.6	16.2	16.1	16.6	17.1
	12H	17.9	18.3	18.3	18.8	19.2	15.6	16.1	16.1	16.5	17.0
12H	4H	16.2	16.9	16.6	17.2	17.6	15.8	16.5	16.2	16.8	17.2
	6H	17.1	17.6	17.5	18.1	18.5	15.7	16.2	16.1	16.7	17.1
	8H	17.5	18.0	18.0	18.4	18.9	15.6	16.1	16.1	16.6	17.0

Variations with the observer position at spacings:		
S = 1.0H	+ 0.4 / - 0.6	+ 0.6 / - 0.8
1.5H	+ 0.3 / - 0.6	+ 0.4 / - 0.7
2.0H	+ 0.5 / - 0.8	+ 0.6 / - 1.6

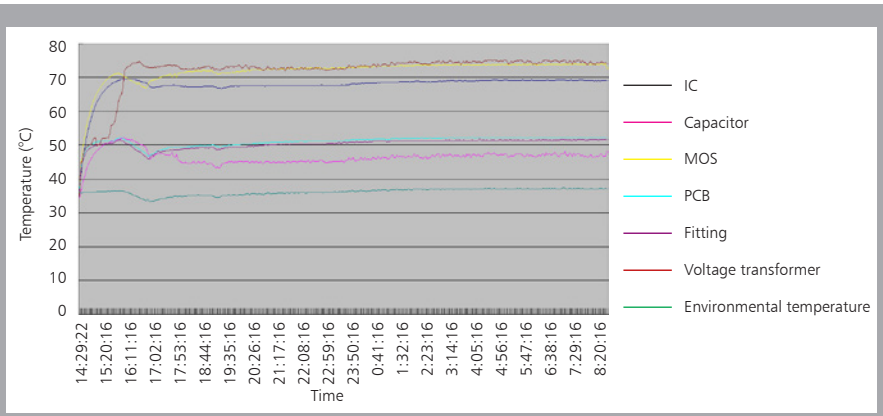
Driver lifetime & LED light decay rate





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

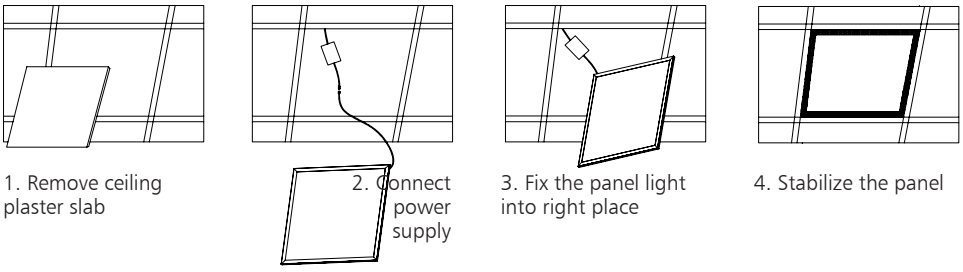




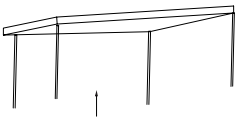
The driver lifespan is based on capacitor working temperature.

Installation

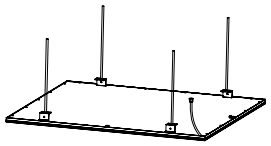
1.Recessed into ceiling



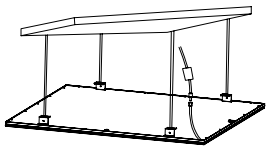
2. Suspending



1. A.Fix the anchor into target place on the ceiling
B.Fix the installation mount on the ceiling with plastic anchor

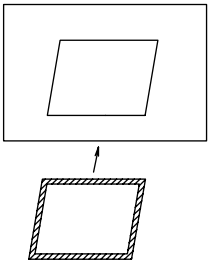


2. Hang the panel to ceiling with suspended installation kits

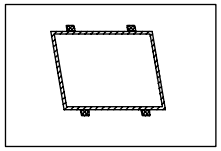


3. Adjust the length of steel wire. Connect the power supply

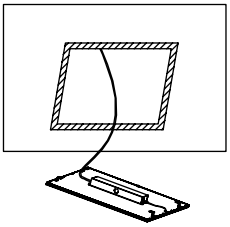
3. Recessed plaster frame



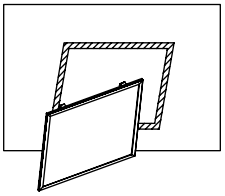
1.Put the plaster recessed frame into the hole



2.Fix the plaster recessed frame with the 4pcs clips

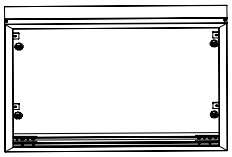


3.Connect power supply with the LED Panel light

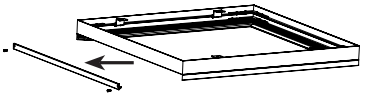


4.Put the LED panel light into the plaster recessed frame

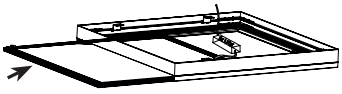
4. Surface mounted



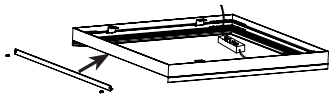
1. Fix the frame on the ceiling with screw



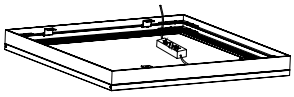
2. Pull down the side frame



3. Push the panel into the frame, connect the driver



4. Install the side frame



5. Turn on the power switch, finish the installation

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	133*34.5*39. 5	4.2	27.5	5

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	150	750	28
40" standard container	300	1500	56

