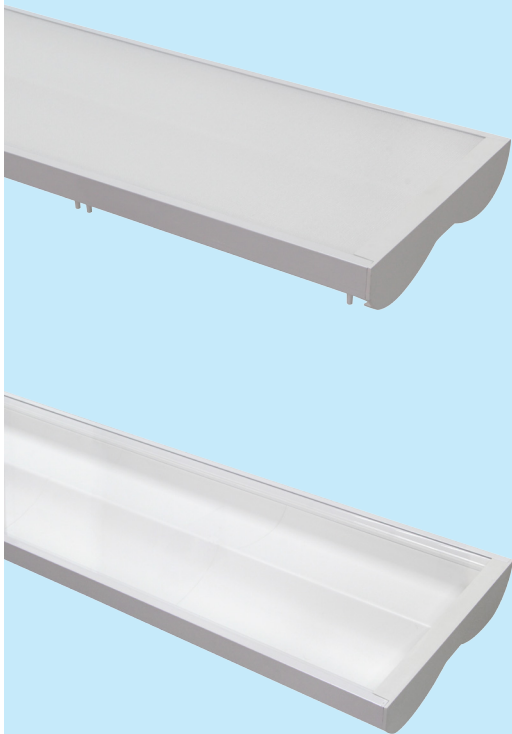




Technical Application Guide for Benluxon LED Panel Light

BLS12030-27W-E

Introduction



Edge Lit LED Panel luminaire combines high reflection material with unique curved design to achieve unparalleled Optical effect. Lower UGR, greatly reduced discomforts caused to our eyes. It is a panel without LGP, another way of cost saving. The reflector is made of high reflectivity PC material with 94-V0 fire rating, it creates high lumen output, light efficiency up to 95lm/W. Clear or prismatic diffuser for your choice. Dimmable option: triac dim or 0-10V dim. Compared with regular panel, the new design is lighter to carry, easier to install and maintain.

- Low cost with high performance
- Low UGR <19
- 94-V0 fire rating PC
- Clear or prismatic diffuser
- High light efficiency of 95LM/W
- Wide range of control gear for option

Application notes

- IP20 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, meeting room, class room etc.

Commercial lighting: shopping mall, super market, retailer shops etc.

Other situations: hospital, laboratory, dust-free workshop etc.

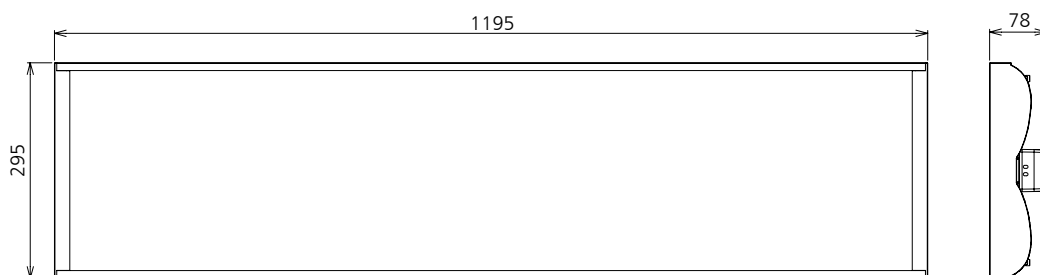
Certificates



RoHS



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
BLS12030-27W-E	AC230V	27W	≥0.9	2350	120°	3000K	40000h	≥80	No	1195*295*78mm
BLS12030-27N-E	AC230V	27W	≥0.9	2500	120°	4000K	40000h	≥80	No	1195*295*78mm
BLS12030-27P-E	AC230V	27W	≥0.9	2560	120°	5000K	40000h	≥80	No	1195*295*78mm
BLS12030-27C-E	AC230V	27W	≥0.9	2520	120°	5700K	40000h	≥80	No	1195*295*78mm
BLS12030-27W-E-D	AC230V	27W	≥0.9	2320	120°	3000K	40000h	≥80	Yes	1195*295*78mm
BLS12030-27N-E-D	AC230V	27W	≥0.9	2460	120°	4000K	40000h	≥80	Yes	1195*295*78mm
BLS12030-27P-E-D	AC230V	27W	≥0.9	2520	120°	5000K	40000h	≥80	Yes	1195*295*78mm
BLS12030-27C-E-D	AC230V	27W	≥0.9	2480	120°	5700K	40000h	≥80	Yes	1195*295*78mm

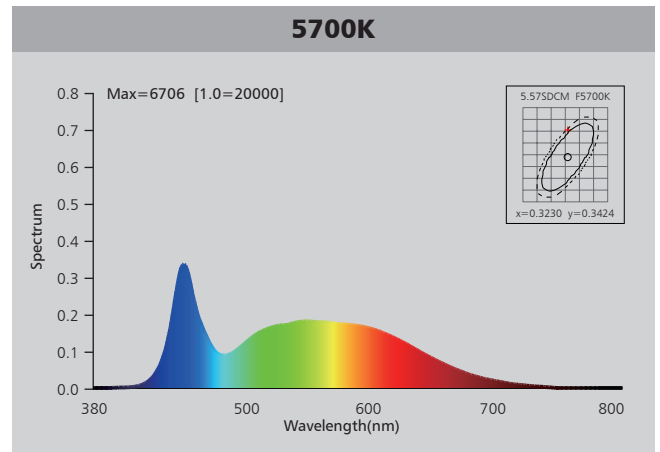
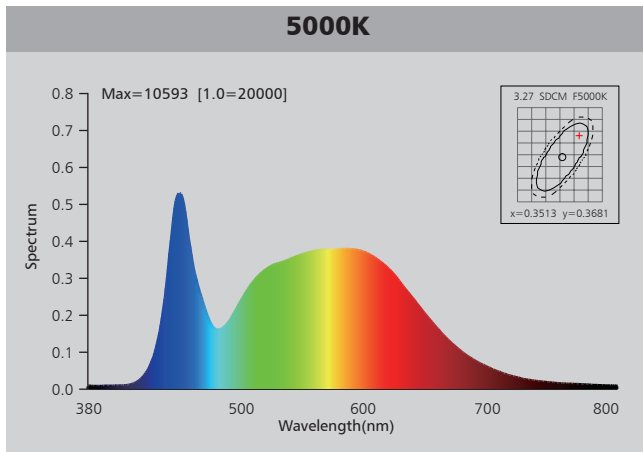
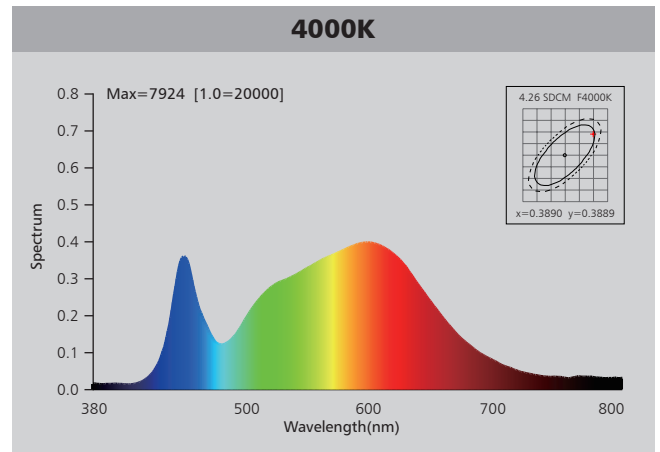
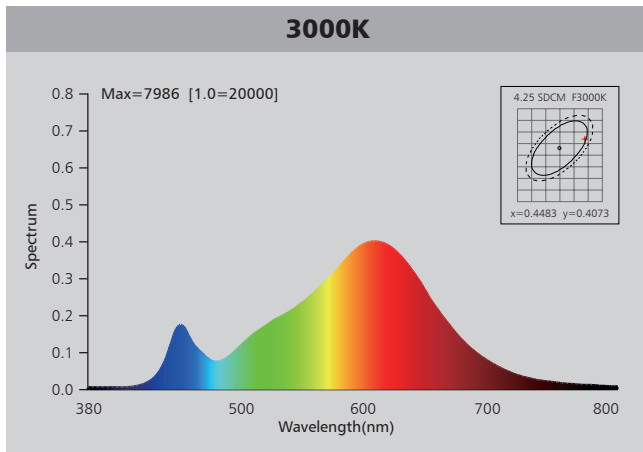
Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥85%	≥88%
Total load Wattage	27W±5%	27W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.16A	≤0.16A
Full load output Voltage	DC35-38V	DC35-38V
Rated output current	650mA	680mA
Output current range	650mA±5%	680mA±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

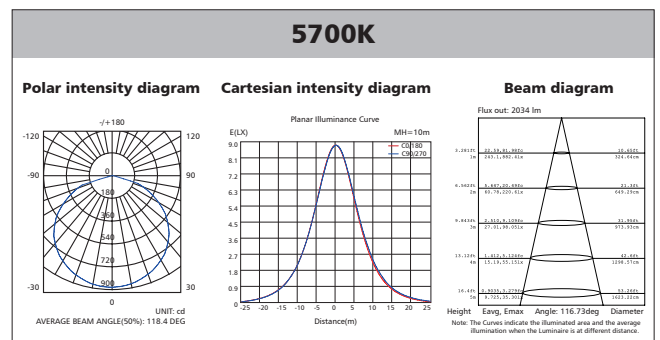
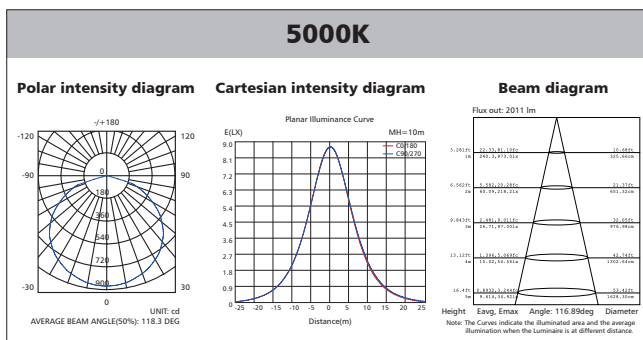
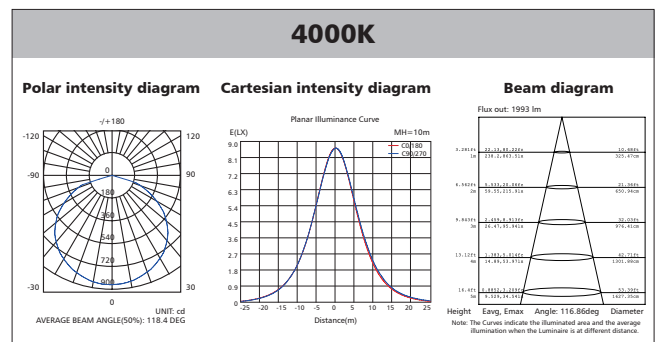
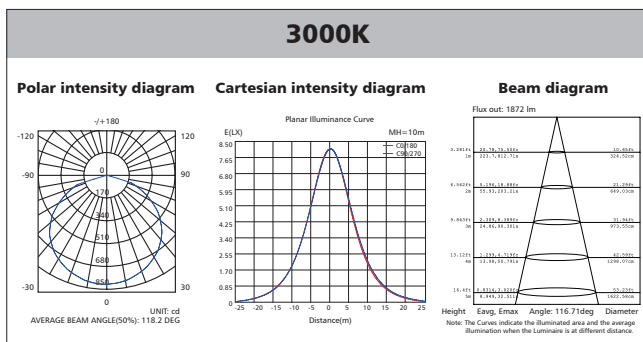
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
27W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

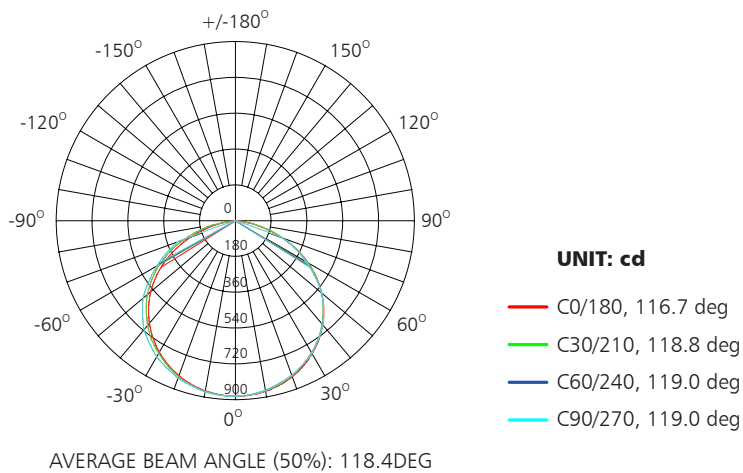
Spectral Distribution



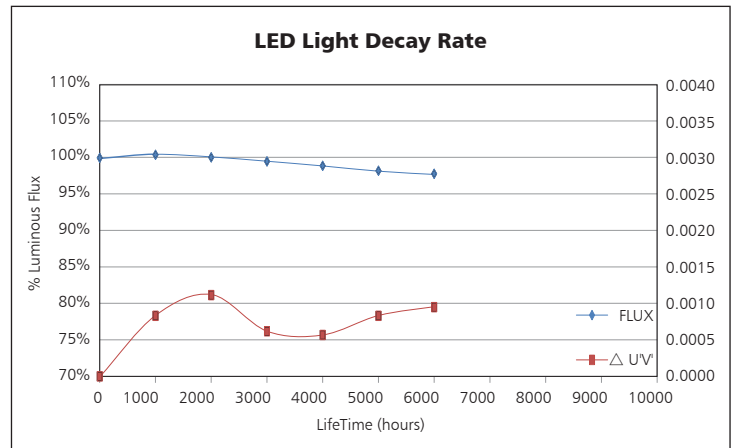
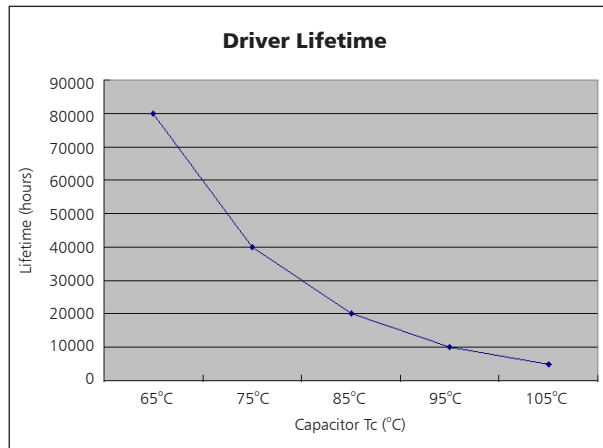
Photometric Diagram



Polar Diagram Comparison

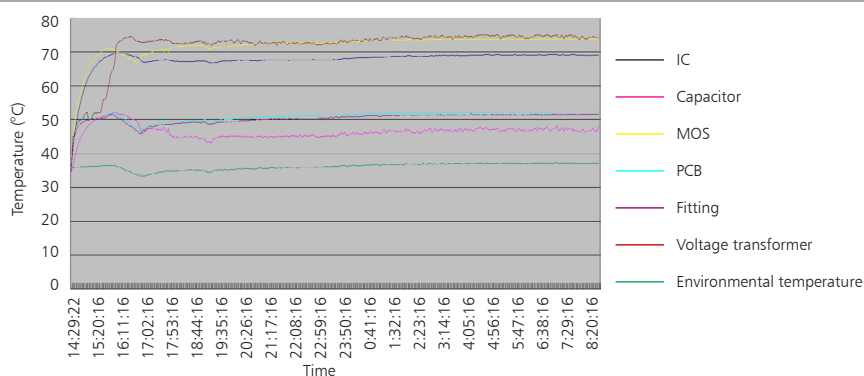


Driver lifetime & LED light decay rate



Temperature

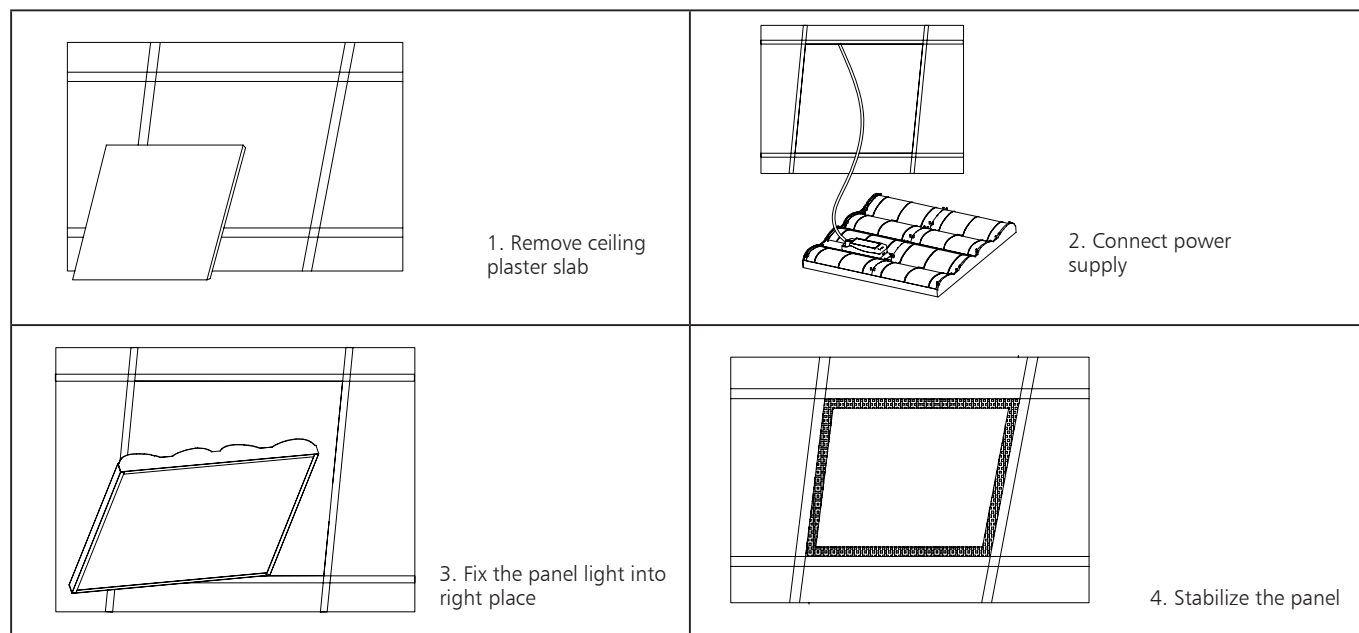
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



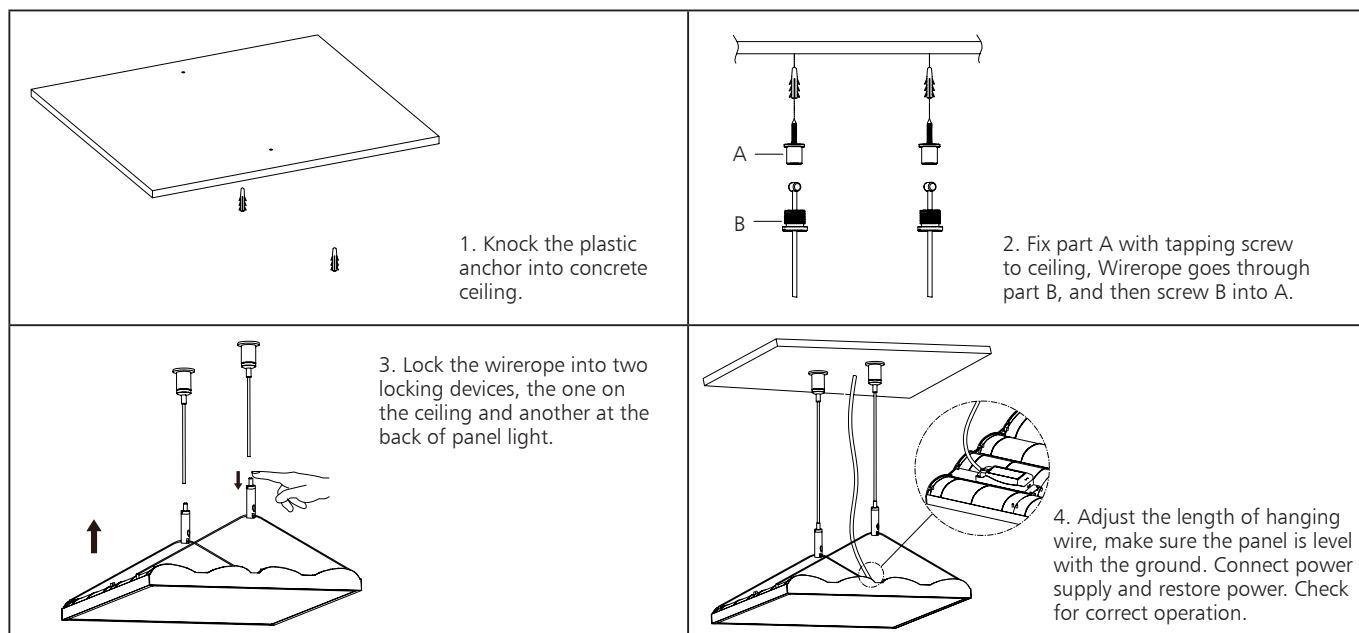
The driver lifespan is based on capacitor working temperature.

Installation

1.Recessed into ceiling



2. Suspending



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	125*42.5*35	3.6	15.5	4

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	149	596	28
40" standard container	298	1192	56

