



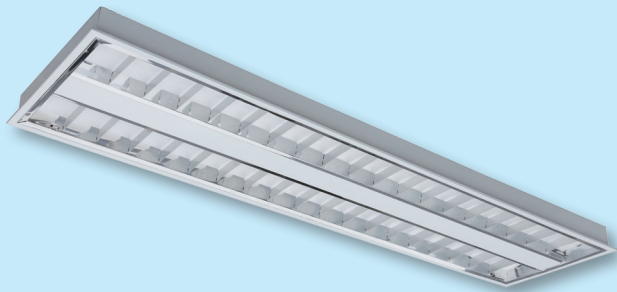
Up-shine[®] Lighting



Technical Application
Guide for UP-SHINE
LED Grille Light

UP-GL30120-33W-B

Introduction



Up-shine back-lit led grille light successfully keeps high lumen meanwhile reduces the UGR index less than 19 by using the deep curved designed aluminum mirror reflector and prismatic diffuser, which creates the most comfortable lighting experience for human eyes, suitable for school, library, meeting room etc. The whole fixture adopts superior cold-roll steel sheets which is surface treated by phosphate, stronger in corrosion resistance, wear resistance and flame resistance. Compared with side-lit led panel light, the light efficiency of back-lit led panel light is much higher, up to 100lm/w. And the luminous flux is more stable and long lasting because unlike the side-lit panel light, it does not use the light guide plate to spread the light.

- Up to 80% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- Triac dim, 0-10V dim, DALI dim
- UGR < 19
- 90° wide beam angle
- CCT: 3000K 4000K
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

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.

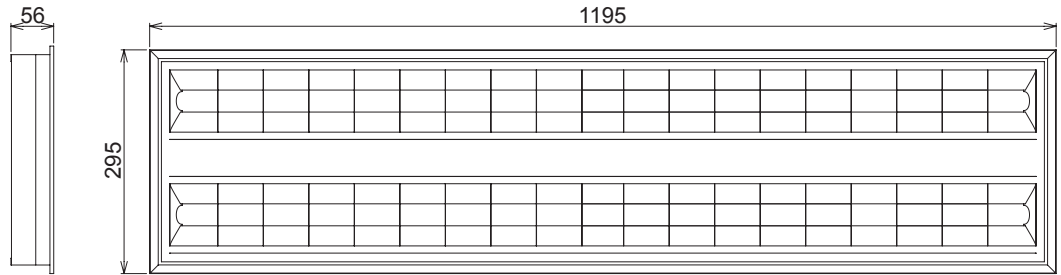
Commercial lighting: shopping mall, super market, retailer shops etc.

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

Certificates



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-GL30120-33W-B	AC230V	33W	≥0.9	3000	90°	3000K	40000h	≥80	No	295*1195*56mm
UP-GL30120-33W-B	AC230V	33W	≥0.9	3150	90°	4000K	40000h	≥80	No	295*1195*56mm
UP-GL30120-33W-B	AC230V	33W	≥0.9	3100	90°	5000K	40000h	≥80	No	295*1195*56mm
UP-GL30120-33W-B	AC230V	33W	≥0.9	3100	90°	5700K	40000h	≥80	No	295*1195*56mm
UP-GL30120-33W-B-D	AC230V	33W	≥0.9	2800	90°	3000K	40000h	≥80	Yes	295*1195*56mm
UP-GL30120-33W-B-D	AC230V	33W	≥0.9	3000	90°	4000K	40000h	≥80	Yes	295*1195*56mm
UP-GL30120-33W-B-D	AC230V	33W	≥0.9	2950	90°	5000K	40000h	≥80	Yes	295*1195*56mm
UP-GL30120-33W-B-D	AC230V	33W	≥0.9	2950	90°	5700K	40000h	≥80	Yes	295*1195*56mm

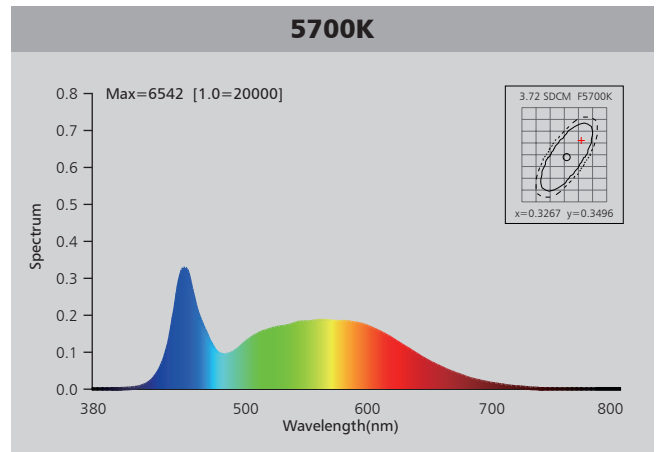
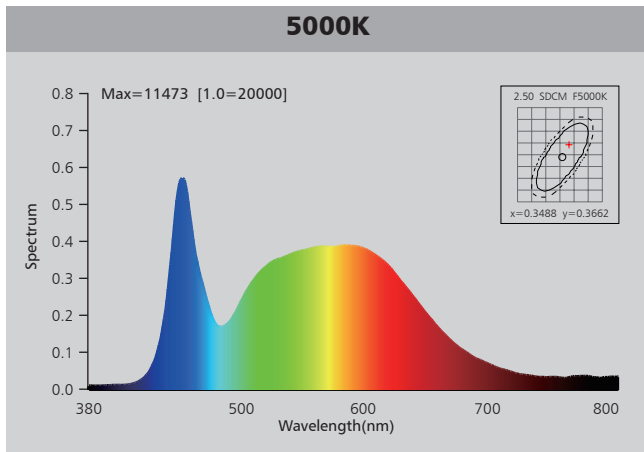
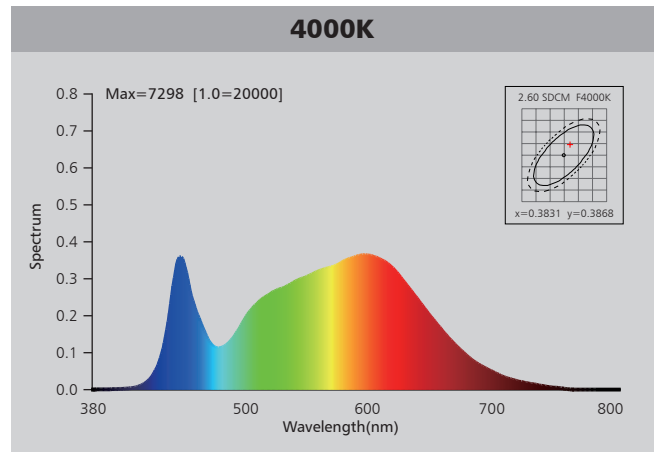
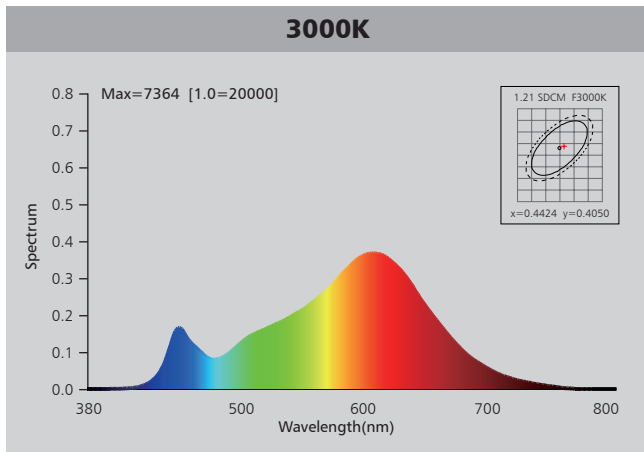
Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥84%	≥87%
Total load Wattage	33W±5%	33W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.2A	≤0.2A
Full load output Voltage	DC23-40V	DC24-40V
Rated output current	800mA	800mA
Output current range	800mA±5%	800mA±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	AC1500V	AC1500V

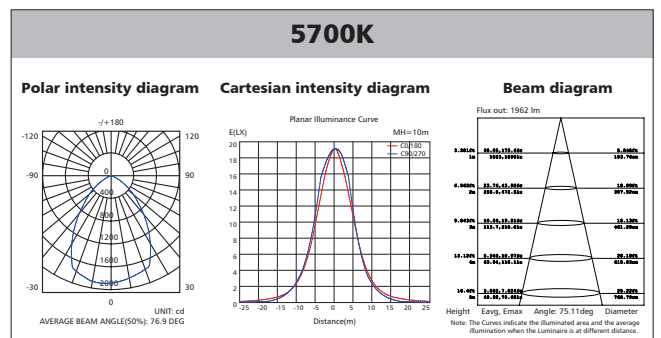
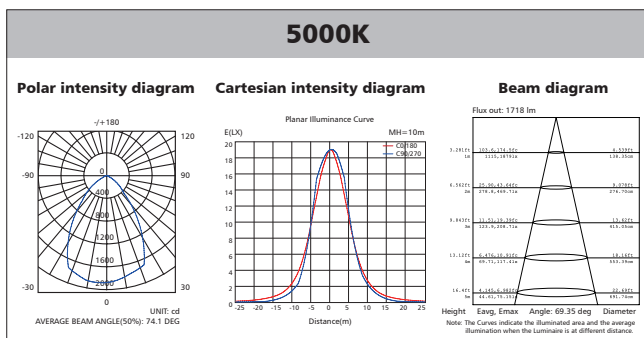
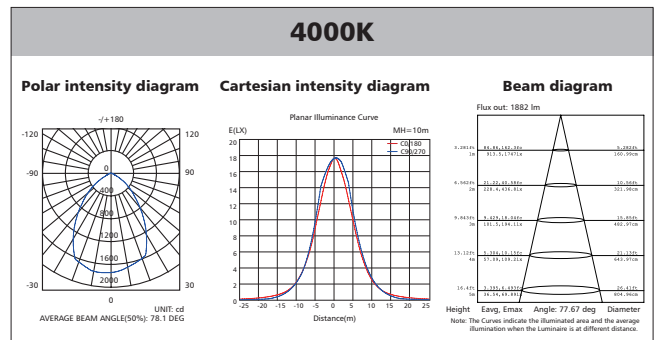
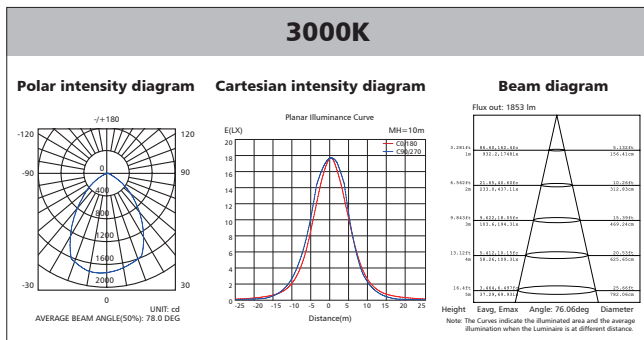
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
33W	I	IP20	-20°C~45°C	0~90%	-20°C~65°C

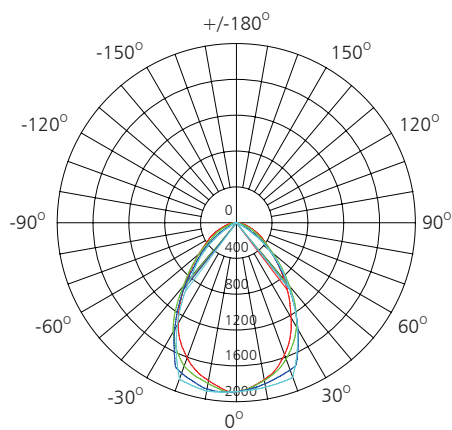
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



UNIT: cd

- C0/180, 75.8 deg
- C30/210, 79.1 deg
- C60/240, 77.2 deg
- C90/270, 75.5 deg

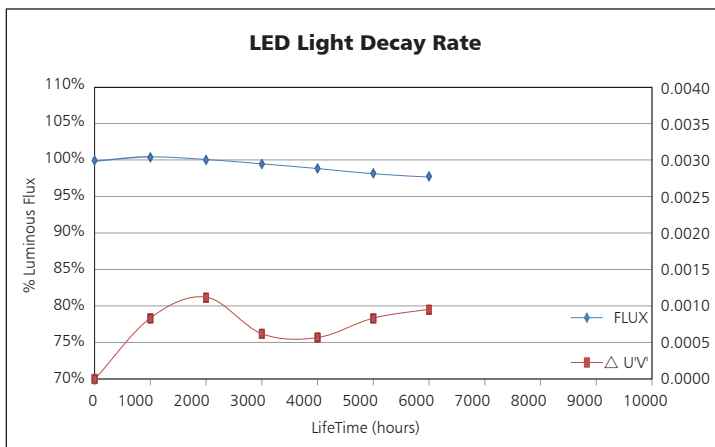
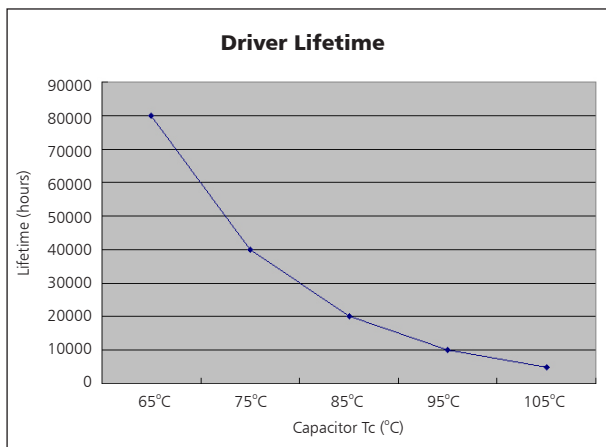


AVERAGE BEAM ANGLE (50%): 76.9 DEG

Uncorrected UGR Table

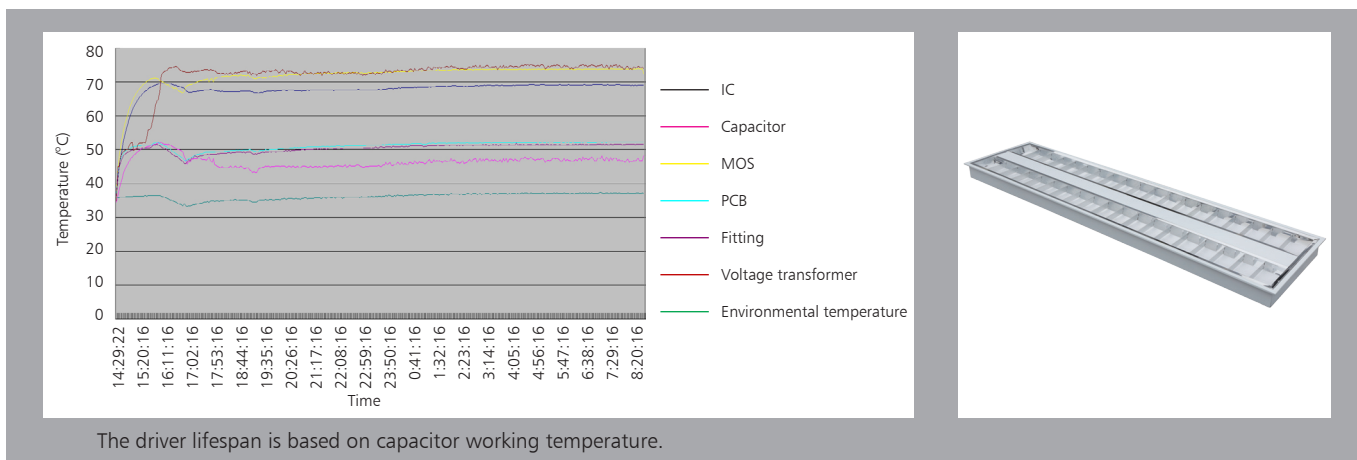
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	15.5	16.7	15.7	16.9	17.1	13.8	15.1	14.1	15.2	15.4	
3H	16.4	17.5	16.7	17.8	18.0	13.7	14.8	13.9	15.0	15.3	
4H	16.7	17.8	17.0	18.1	18.3	13.6	14.7	13.9	14.9	15.2	
6H	17.0	18.0	17.3	18.3	18.5	13.5	14.5	13.8	14.8	15.0	
8H	17.1	18.1	17.4	18.3	18.6	13.5	14.5	13.8	14.7	15.0	
12H	17.1	18.0	17.4	18.3	18.6	13.4	14.4	13.8	14.7	15.0	
4H	2H	15.5	16.6	15.8	16.8	17.0	13.9	15.0	14.2	15.3	15.5
3H	16.5	17.5	16.9	17.7	18.0	13.8	14.8	14.2	15.1	15.4	
4H	17.0	17.8	17.3	18.1	18.5	13.8	14.6	14.1	14.9	15.3	
6H	17.3	18.1	17.7	18.4	18.8	13.7	14.5	14.1	14.8	15.2	
8H	17.5	18.2	17.9	18.5	18.9	13.7	14.4	14.1	14.7	15.1	
12H	17.5	18.2	18.0	18.6	19.0	13.7	14.3	14.1	14.7	15.1	
8H	4H	16.9	17.6	17.3	17.9	18.3	13.8	14.5	14.2	14.8	15.2
6H	17.3	17.8	17.7	18.2	18.7	13.7	14.3	14.2	14.7	15.1	
8H	17.4	17.9	17.9	18.3	18.8	13.7	14.2	14.2	14.6	15.1	
12H	17.5	18.0	18.0	18.4	18.9	13.7	14.2	14.2	14.6	15.1	
12H	4H	16.8	17.4	17.2	17.8	18.2	13.7	14.4	14.2	14.8	15.2
6H	17.2	17.7	17.7	18.1	18.6	13.7	14.2	14.2	14.6	15.1	
8H	17.4	17.8	17.9	18.3	18.7	13.7	14.1	14.2	14.6	15.1	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 1.3 / - 2.1					
1.5H	+ 0.3 / - 0.8					+ 0.7 / - 0.9					
2.0H	+ 1.0 / - 0.8					+ 2.9 / - 5.4					

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

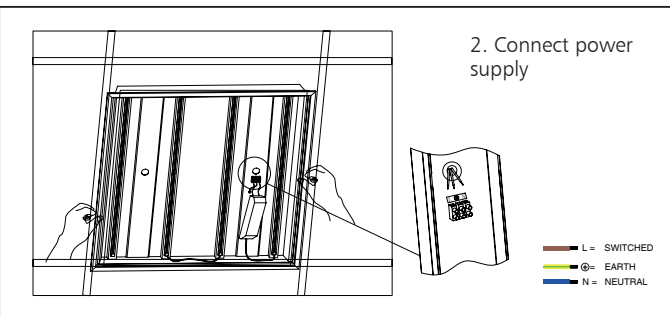
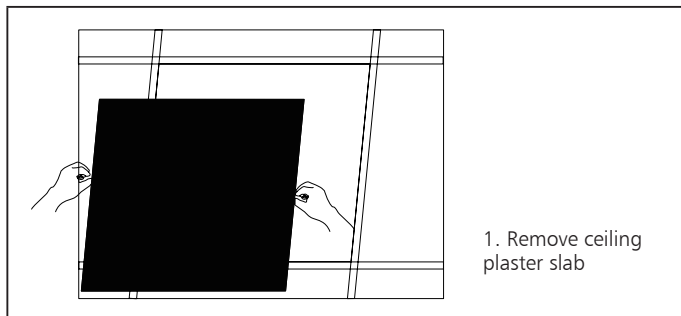


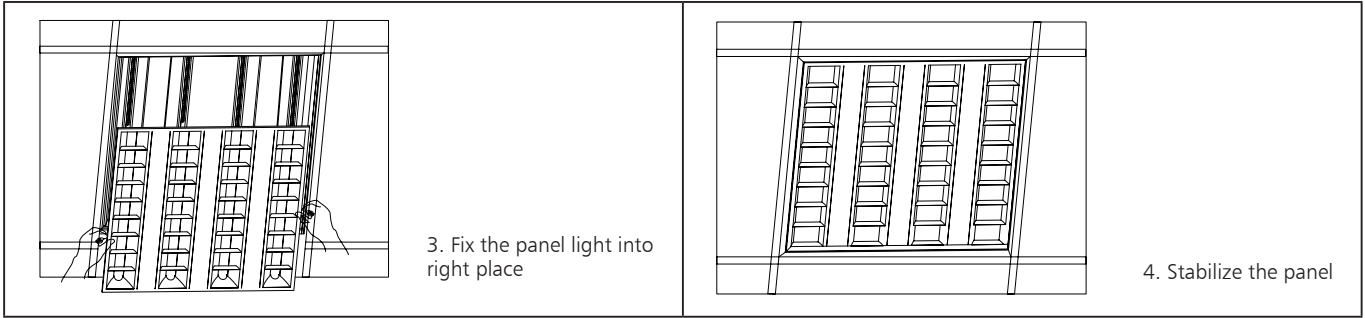
The driver lifespan is based on capacitor working temperature.



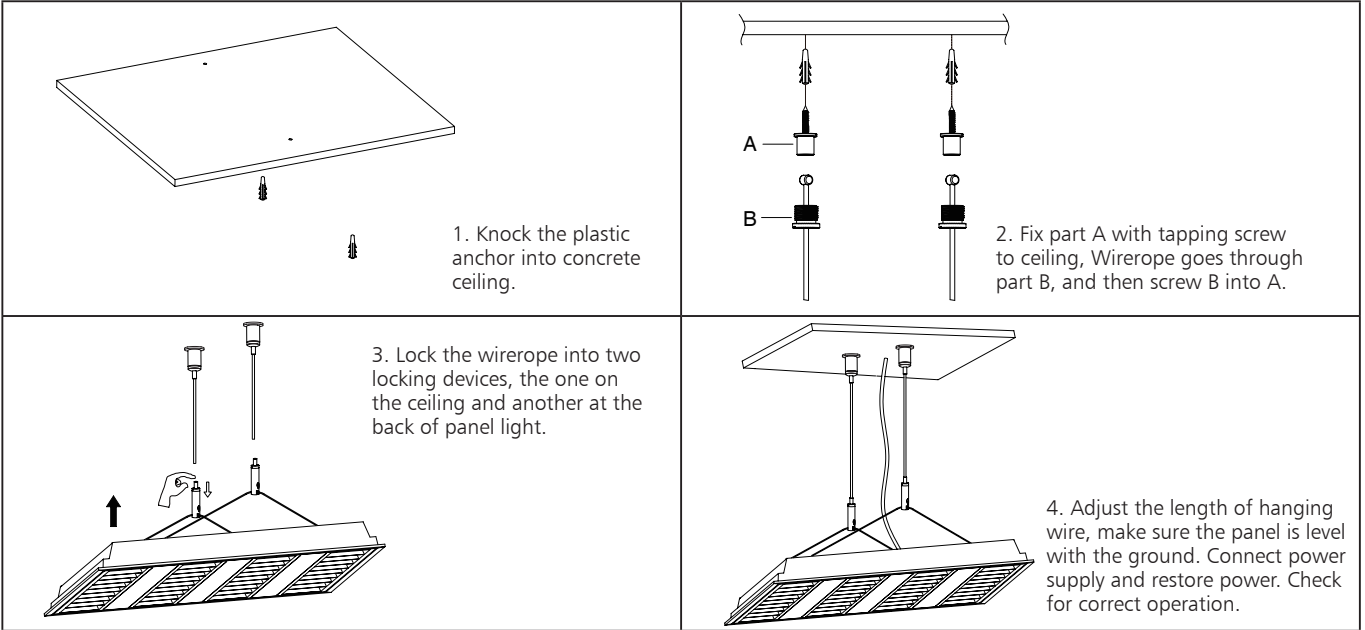
Installation

1. Recessed into ceiling





2. Suspending



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	129*54.5*39	3.2	15.8	4

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20' standard container	101	404	28
40' standard container	202	808	56

