



UPSHINE[®]



Technical Application
Guide for UP-SHINE
LED Panel Light

UP-PL1X4-40W-E

UP-PL1X4-40W-E-D

Introduction



Up-shine LED troffer adopts LM-80 SMD led chip, with UL&cUL, DLC approved for North America market. 1X4, 2X2, 2X4 sizes are available for various demand. Branded led driver with top quality component ensures long life time. 0-10V dimmable and non-dimmable version both provided.

The ultra slim profile fits seamlessly into any workplace. It is available in the following installation ways: embedded into ceiling, suspended with hanging wires.

- Up to 80% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- 0-10V dimmable
- 120° wide beam angle
- CCT: 2700K 3000K
4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

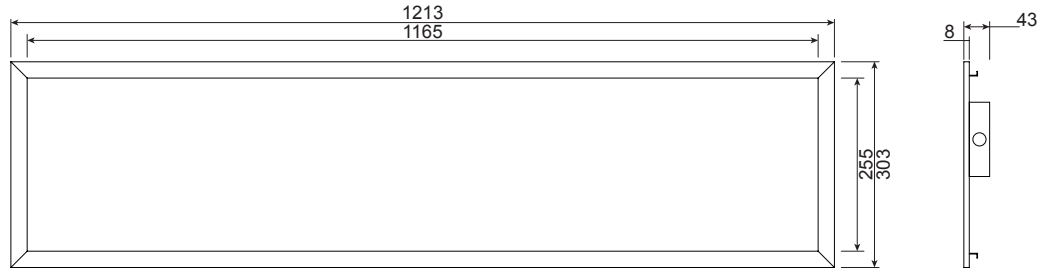
- IP40 for indoor use
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

Application Areas

Widely used for various commercial lighting and residential lighting applications, such as offices, shopping mall, hotel, restaurant, hospital, home lighting etc.



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	CCT	Beam angle	Lifespan	CRI	Dimmable	Dimension
UP-PL1X4-40W-E	AC100-277V	40W	≥0.9	3750	2700K	120°	50000h	≥80	No	1213*303*43mm
				3800	3000K					
				4000	4000K					
				4050	5000K					
UP-PL1X4-40W-E-D	AC100-277V	40W	≥0.9	3750	2700K	120°	50000h	≥80	Yes	1213*303*43mm
				3800	3000K					
				4000	4000K					
				4050	5000K					

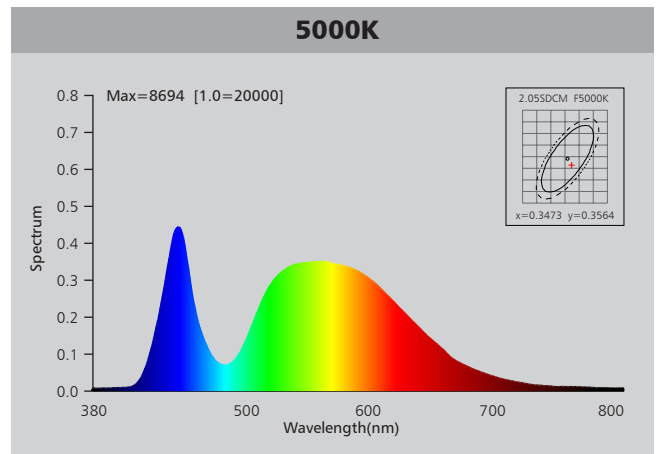
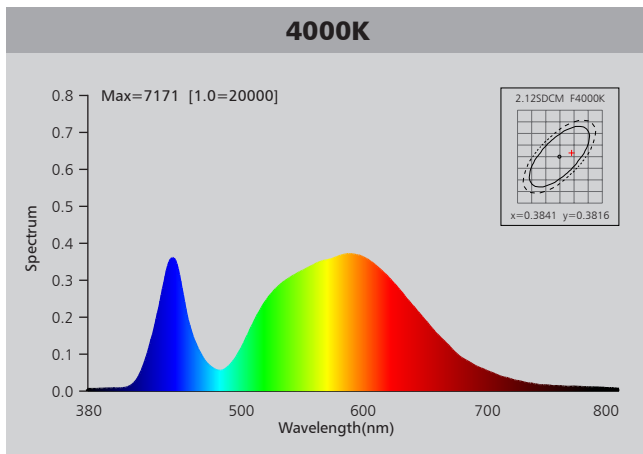
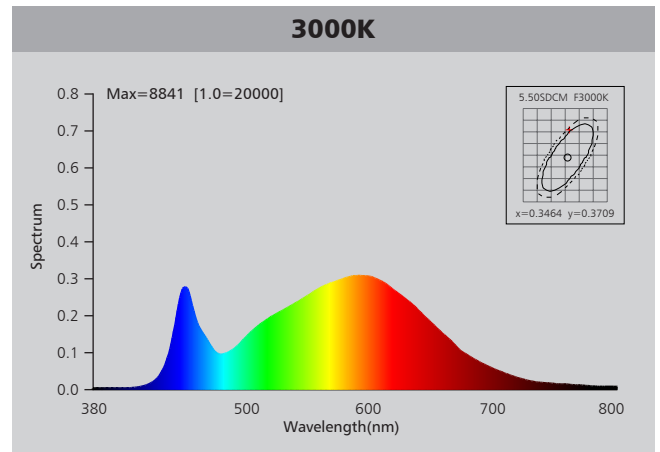
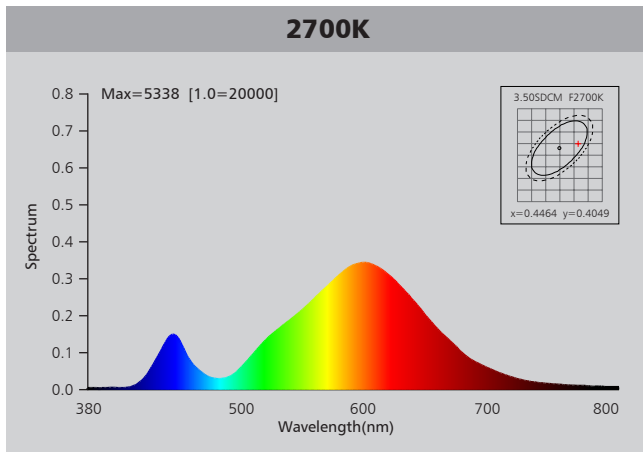
Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz
Input Voltage	AC90-305V	AC90-305V
Efficiency	≥85%	≥85%
Total load Wattage	40W±5%	40W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.5A	≤0.5A
Full load output Voltage	DC35-38V	DC35-38V
Rated output current	950mA	950mA
Output current range	950mA±5%	950mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	1%-100%	—
Dimmer	0V-10V dimmer	—
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
Withstand voltage	AC3750V	AC3750V

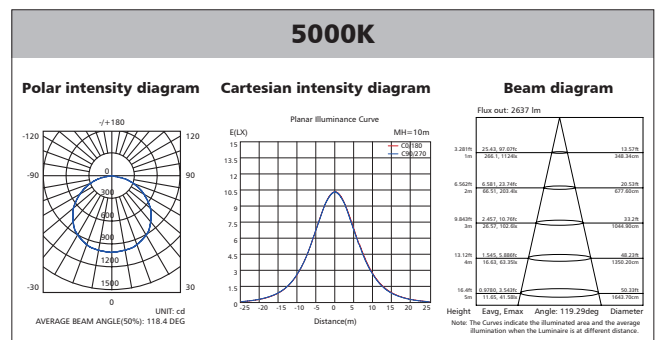
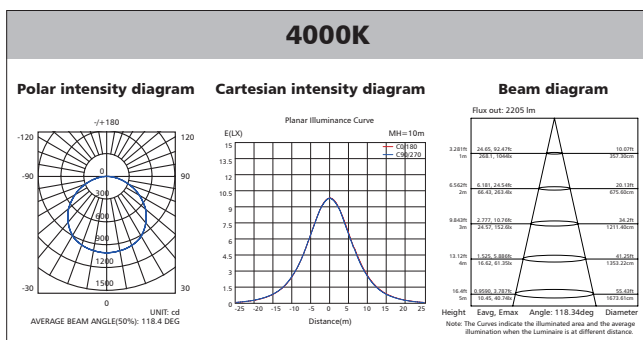
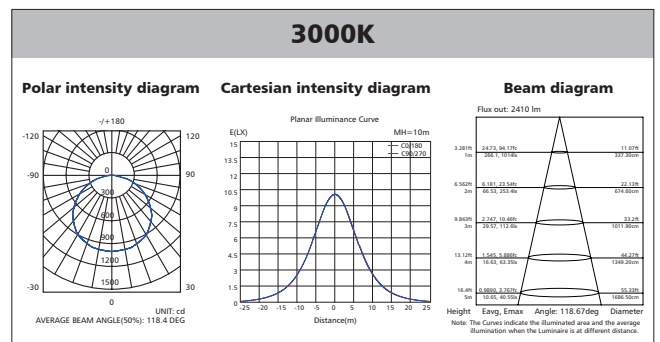
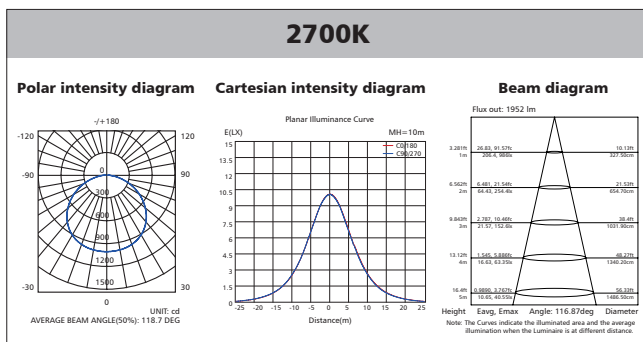
Fixture Compatibility

Rated Wattage	With Ground	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
40W	Yes	Dry Location	-20°C~45°C	0~90%	-20°C~65°C

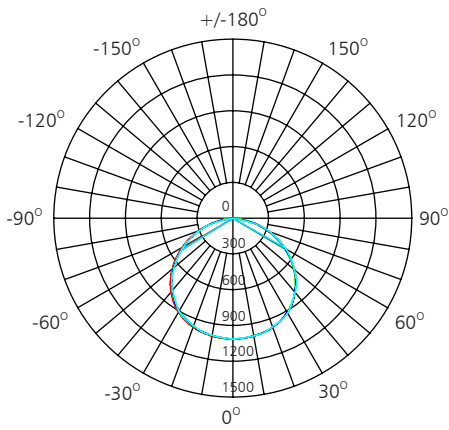
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



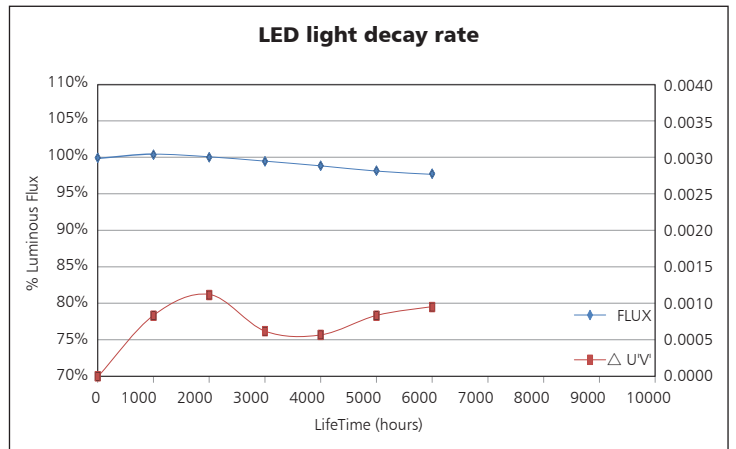
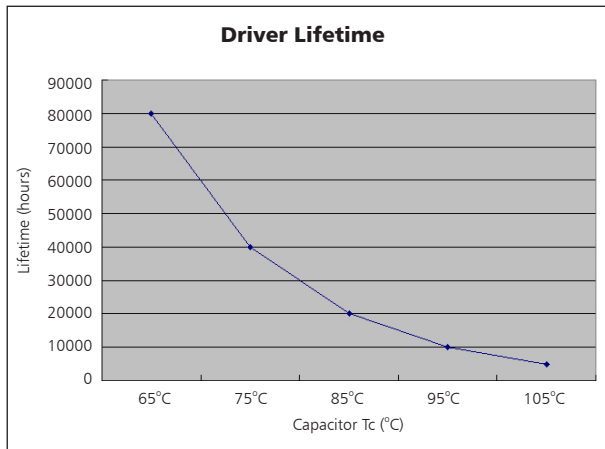
UNIT: cd

- C0/180, 118.7 deg
- C30/210, 118.0 deg
- C60/240, 118.1 deg
- C90/270, 118.6 deg



AVERAGE BEAM ANGLE (50%): 118.4DEG

Driver lifetime & LED light decay rate

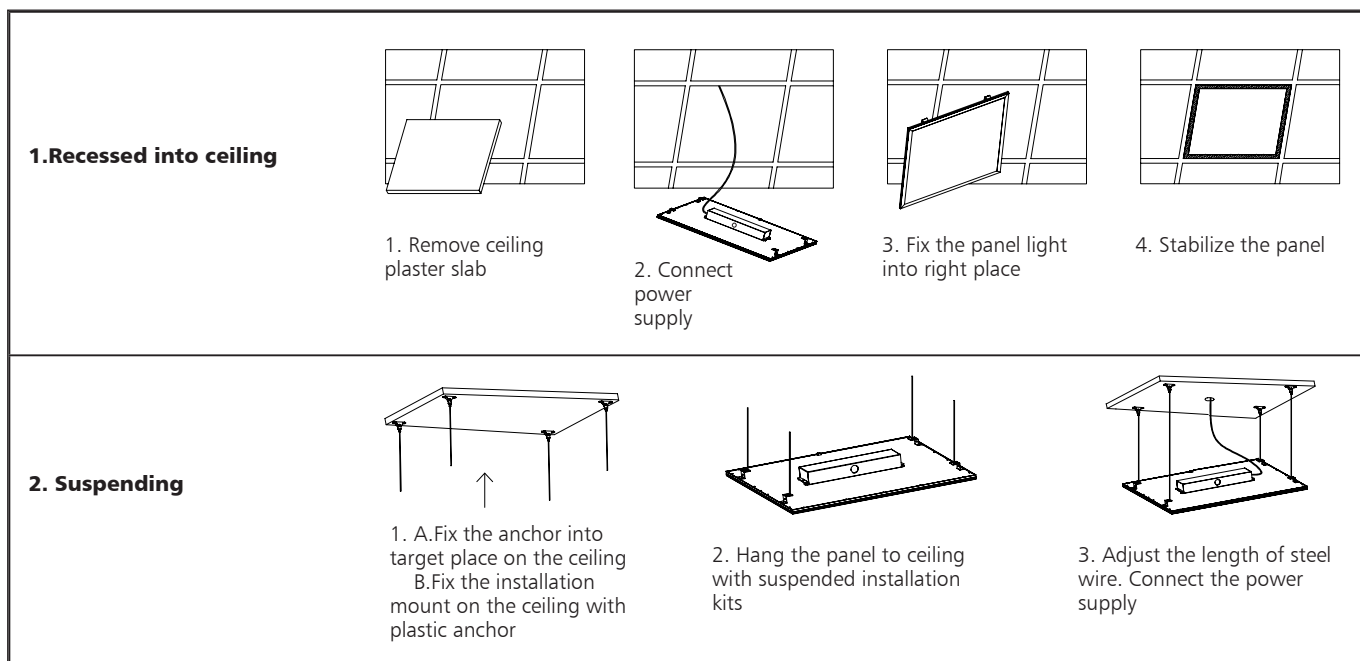


Temperature

- 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



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	128*21*37.5	3.2	16	4

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	275	1100	28
40" standard container	550	2200	56

