



## **LED DIVISION**



# Technical Application Guide for UP-SHINE LED Panel Light

UP-PL2X2-50W

UP-PL2X2-50WD

# 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.

- Up to 80% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- 0-10V dimmable with MeanWell dimmable driver
- 120° wide beam angle
- 603x603mm cutout
- 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

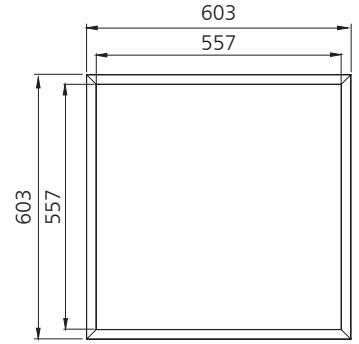
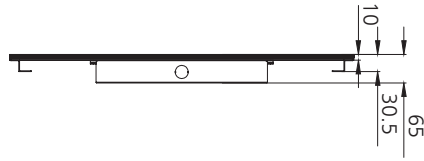
## Application Areas

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

## Certificates



# Product Information



## Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-PL2X2-50W	AC100-277V	50W	≥0.9	4250	120°	2700K	50000h	≥80	No	603*603*10mm
UP-PL2X2-50W	AC100-277V	50W	≥0.9	4300	120°	3000K	50000h	≥80	No	603*603*10mm
UP-PL2X2-50W	AC100-277V	50W	≥0.9	4350	120°	4000K	50000h	≥80	No	603*603*10mm
UP-PL2X2-50W	AC100-277V	50W	≥0.9	4400	120°	5000K	50000h	≥80	No	603*603*10mm
UP-PL2X2-50WD	AC100-277V	50W	≥0.9	4350	120°	2700K	50000h	≥80	Yes	603*603*10mm
UP-PL2X2-50WD	AC100-277V	50W	≥0.9	4400	120°	3000K	50000h	≥80	Yes	603*603*10mm
UP-PL2X2-50WD	AC100-277V	50W	≥0.9	4450	120°	4000K	50000h	≥80	Yes	603*603*10mm
UP-PL2X2-50WD	AC100-277V	50W	≥0.9	4500	120°	5000K	50000h	≥80	Yes	603*603*10mm

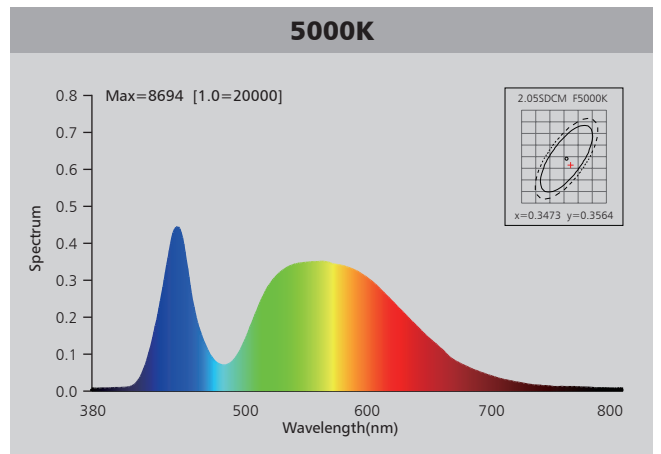
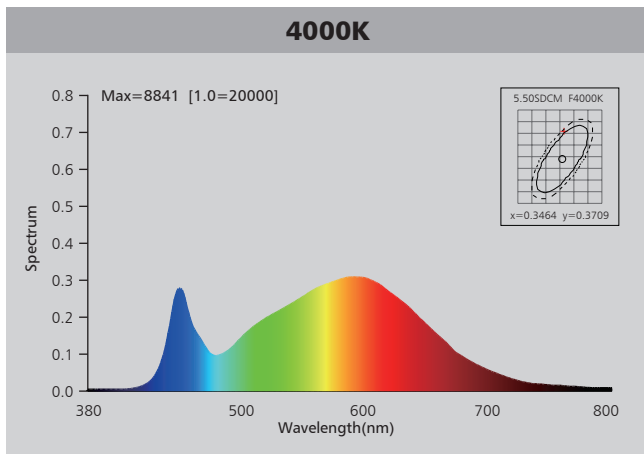
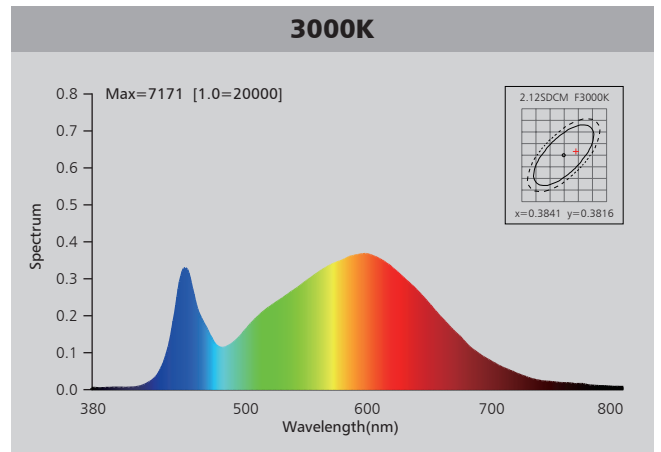
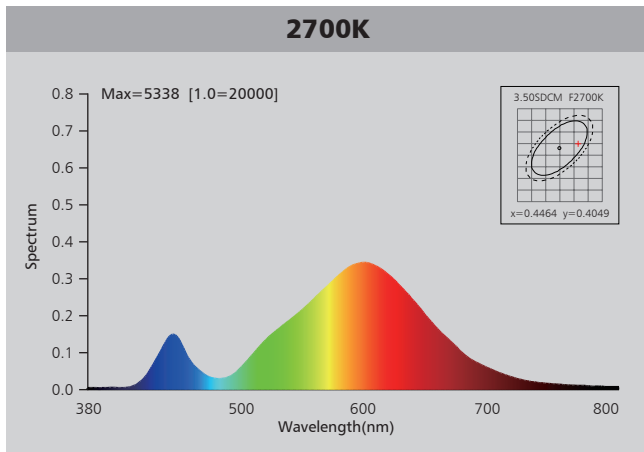
## Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC100-277V	AC100-277V
Frequency	50/60Hz	50/60Hz
Input Voltage	AC90-305V	AC90-305V
Efficiency	≥90%	≥85%
Total load Wattage	45W±5%	50W±5%
Power Factor	≥0.9	≥0.9
Rated input current	≤0.5A	≤0.6A
Full load output Voltage	DC23-26V	DC23-26V
Rated output current	1800mA	1750mA
Output current range	1800mA±5%	1750mA±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

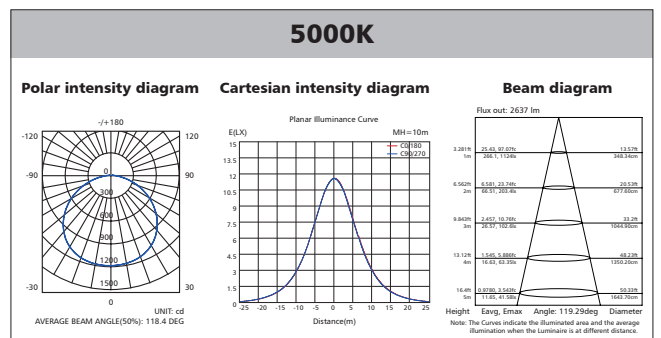
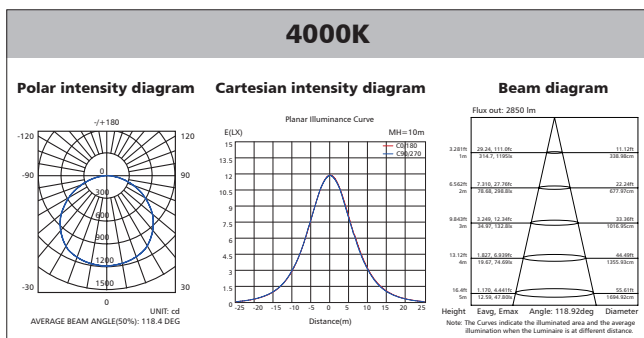
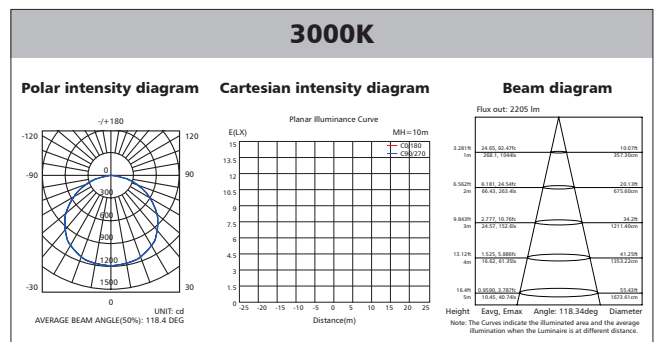
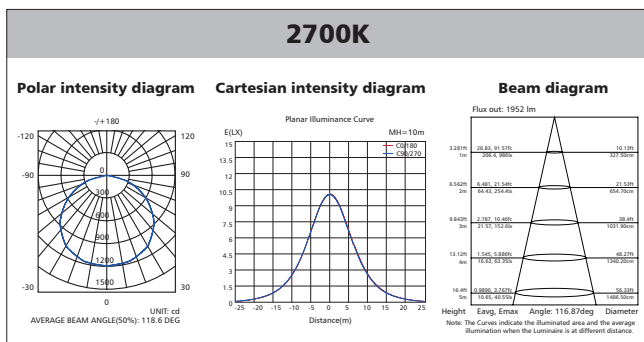
## Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
50W	II	IP40	-20°C-45°C	0-90%	-20°C-65°C

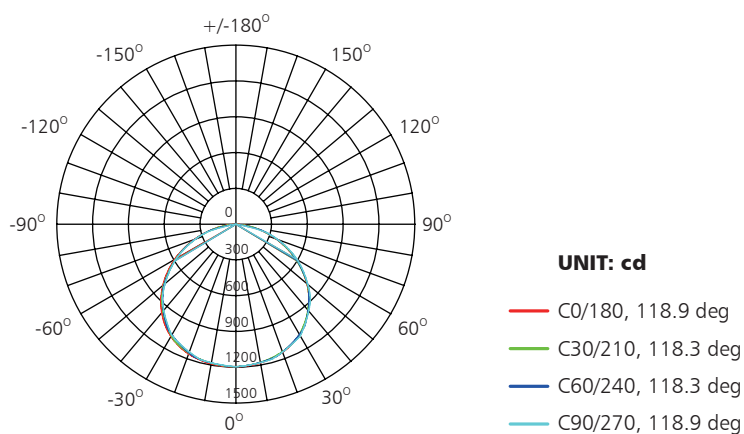
# Spectral Distribution



# Photometric Diagram



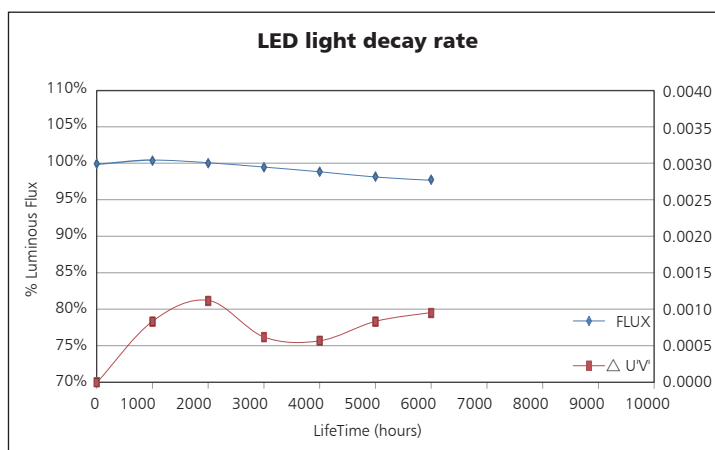
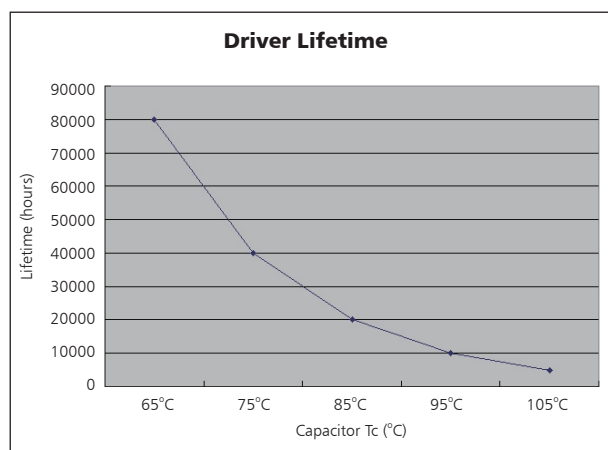
## Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 118.6DEG

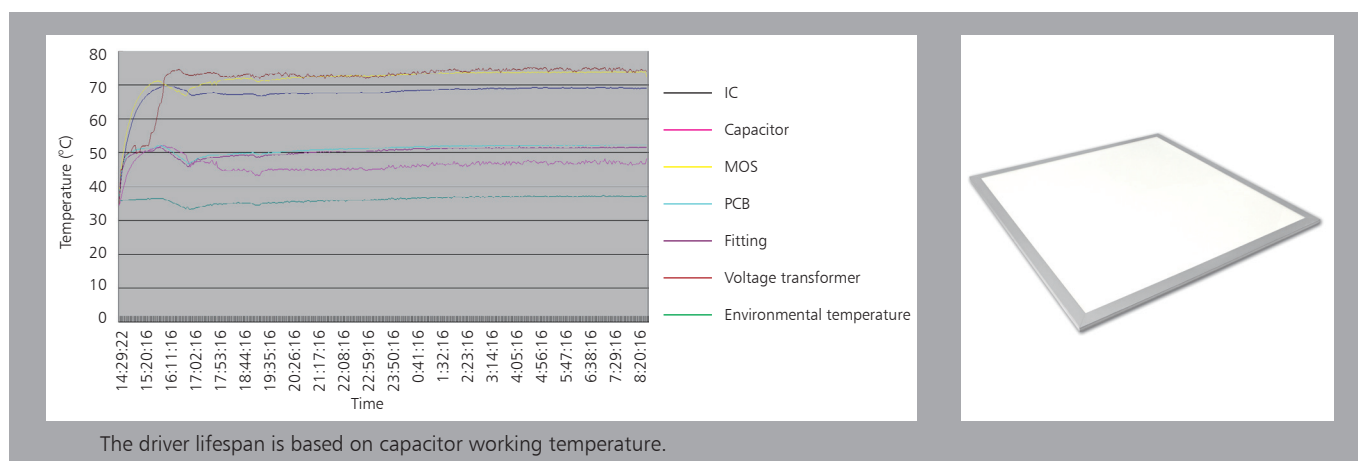


## Driver lifetime & LED light decay rate



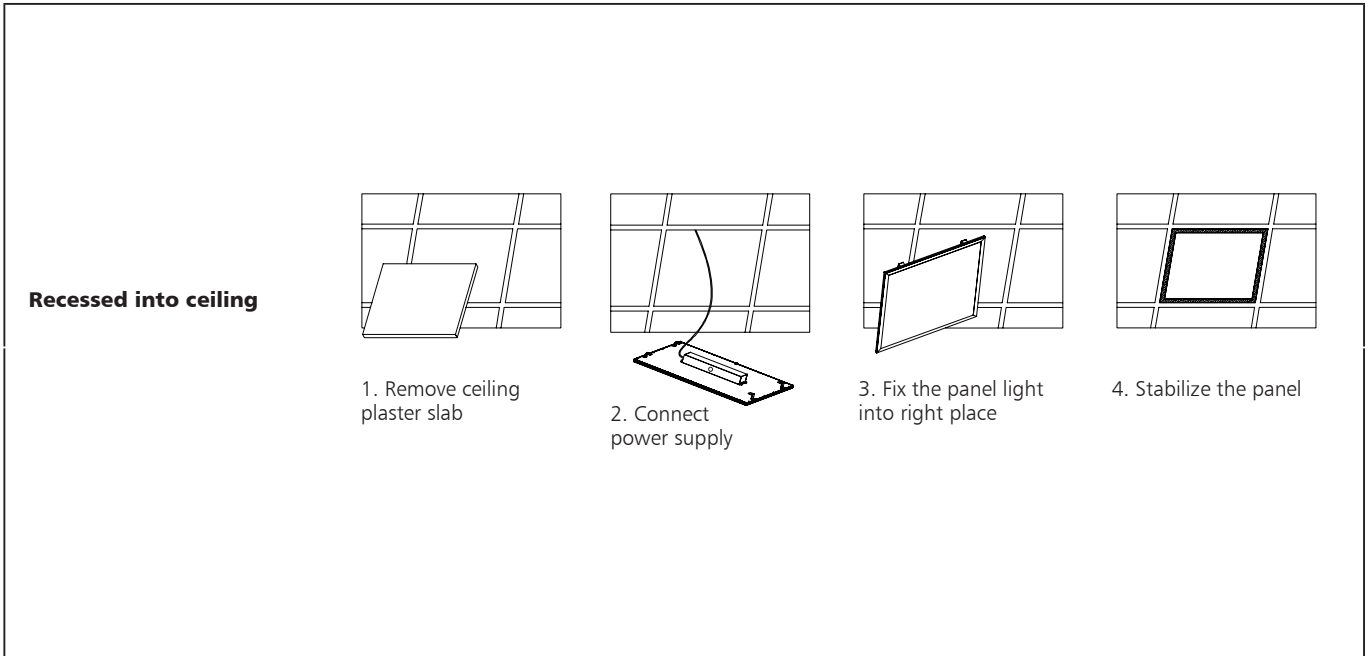
## Temperature

- 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. Working at 75°C or below, the lamp can achieve its maximum lifetime of 40,000 hours.
- 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	67.5*43*69.5	4.8	25.5	4

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	135	540	28
40" standard container	270	1080	56

