



Technical Application Guide for XTLighting LED Downlight

XT.WR110-12W

Introduction



XTLighting UP-CL59-3-12W downlight integrates 5630SMD light source and a compact high efficient driver into a traditional CFL replacement. It employs a high-tech IC solution to ensure the good stability and dimming system control. The super slim design guarantees 100% suitable for worldwide ceiling installation.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Dimmable when using triac dimmer
- 90° wide beam angle
- 90-100mm cutout
- CCT: 3000K-3200K 4000K-4500K
5000K-5500K 5500K-6000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP20 / IP44 for indoor use only
- The lamp must be installed by professional electrician
- Ensure the power supply is switched off before fitting this product
- Do not touch the lamp when in use
- Keep away from hot steam and corrosive gas

Application Areas

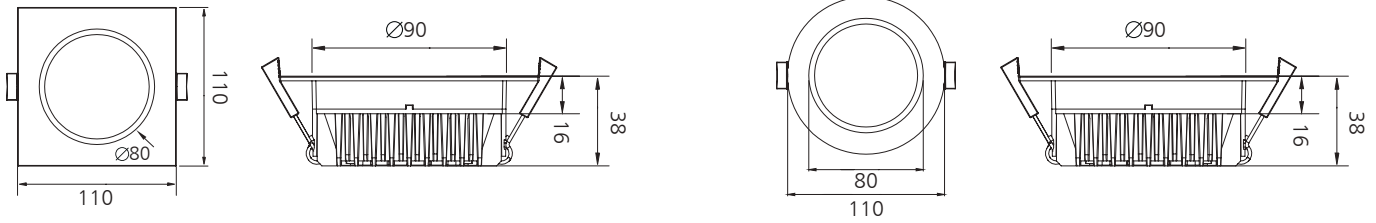
Up-shine 12W downlight is designed for general lighting applications in hotel, home, office, shop etc. It is also widely used for public areas such as stairway, lobby, reception, corridors etc.

Certificate

CE RoHS SAA



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	CCT	Beam angle	Lifespan	CRI	Dimmable	Dimension
XT.WR110-12W XT.WR110-12WF	AC100-240V	12W	≥0.9	1105	3000K	90°	50,000hs	≥80	No	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
				1170	4000K					
				1170	5000K					
				1170	5700K					
XT.WR110-12W-D XT.WR110-12WF-D	AC200-240V	12W	≥0.9	1080	3000K	90°	50,000hs	≥80	Yes	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
				1145	4000K					
				1145	5000K					
				1145	5700K					

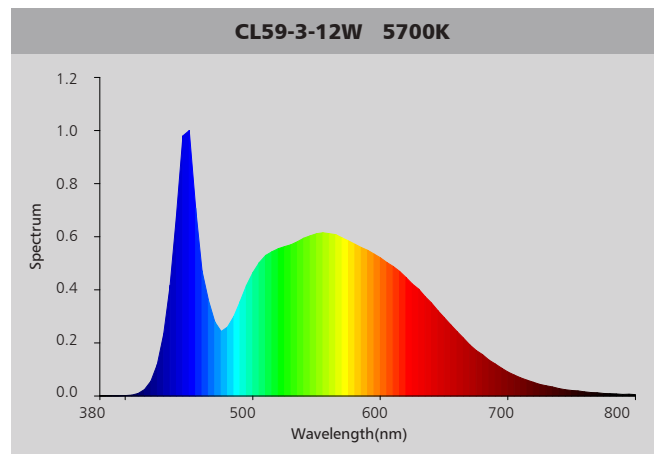
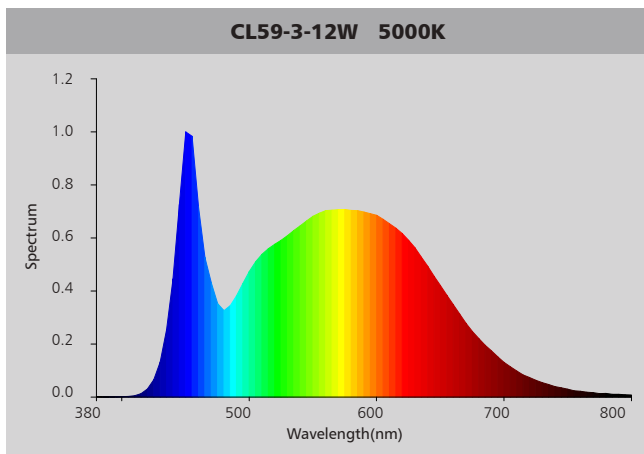
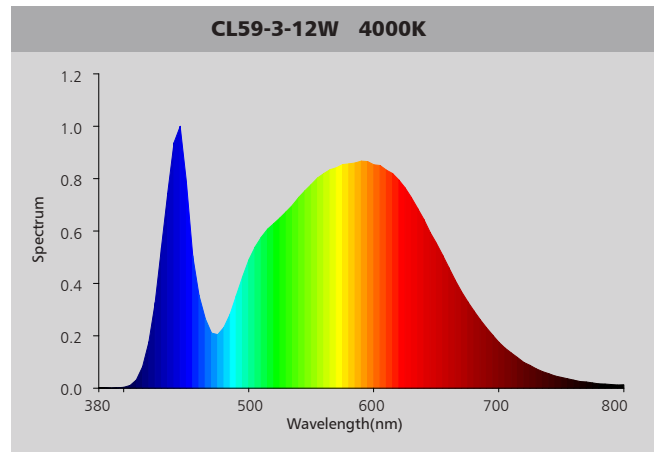
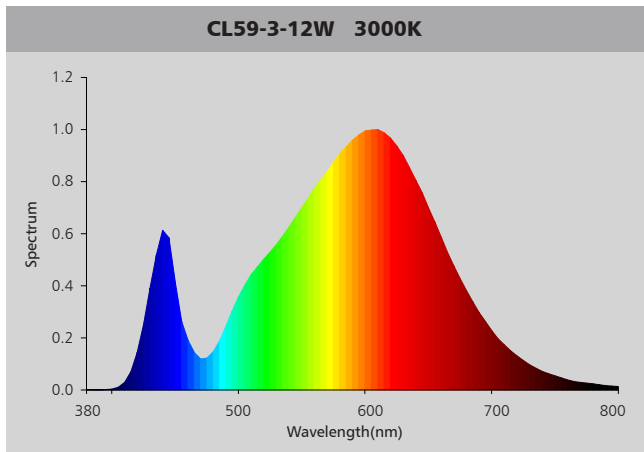
Driver data Sheet

Driver data	DIM	Non-dim
Input Voltage	AC200-240V	AC100-240V
Frequency	50HZ	50-60HZ
Input rated Voltage	AC230V	AC100-240V
Efficiency	≥75%	≥85%
No load wattage	≤0.8W	≤0.7W
Total load Wattage	12W±1W	12W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.08A	≤0.15A
No load output Voltage	DC39V	DC49V
No load output Voltage range	DC37-42V	DC46-52V
Full load output Voltage	DC26-30V	DC26-30V
Rated output current	350mA	390mA
Output current range	350mA±5%	390mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	—
Dimmer	Triac dimmers	—
Withstand voltage	AC3750V	AC3750V

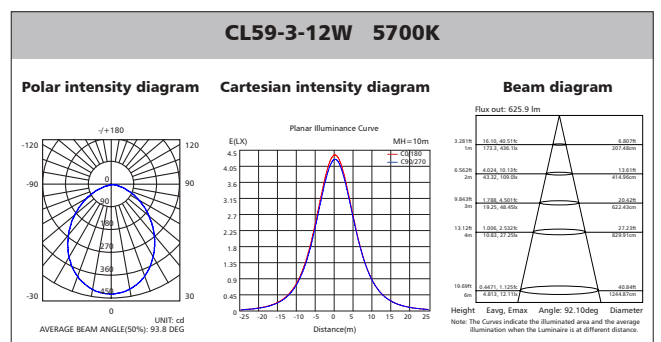
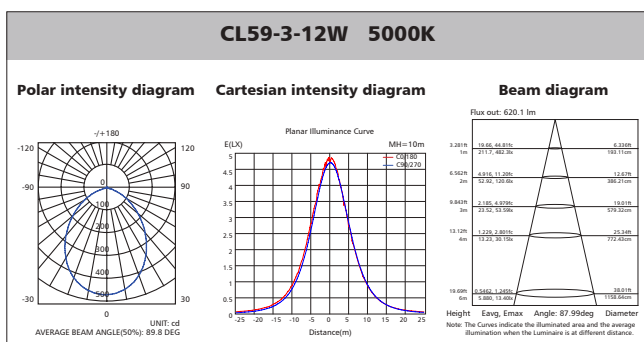
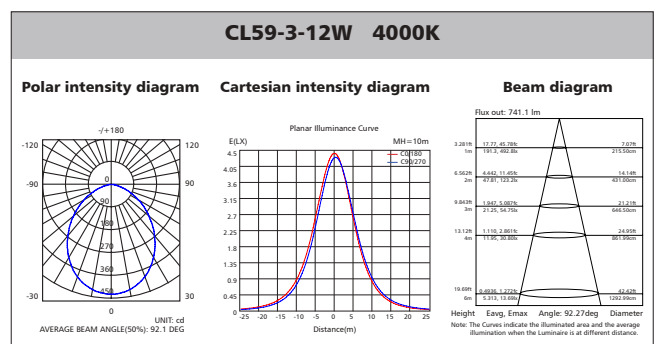
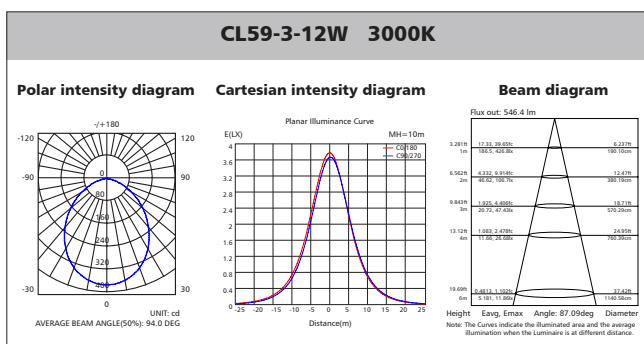
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection (IP)	Operating Temp	Operating Humidity	Storage Temp
12W	II	20 / 44	-10°C-45°C	0-90%	-20°C-65°C

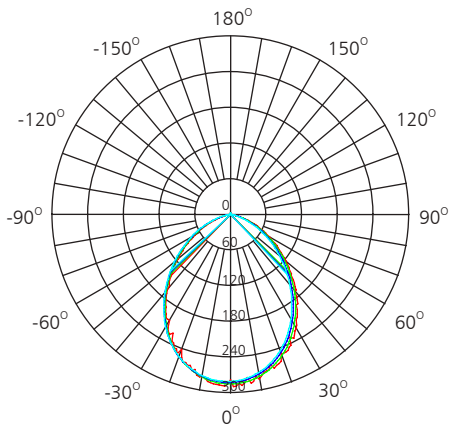
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



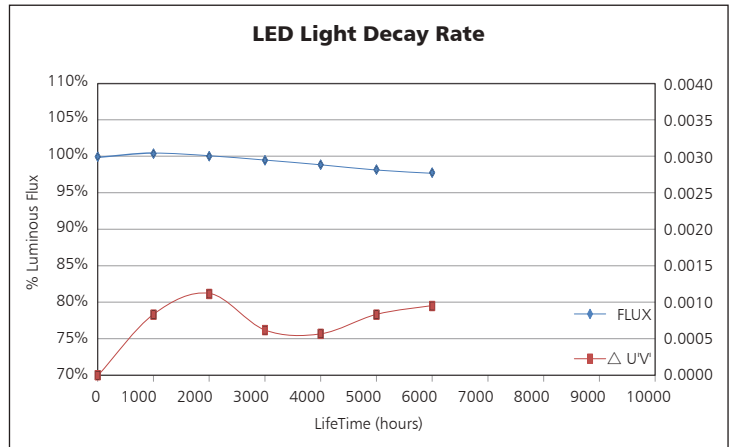
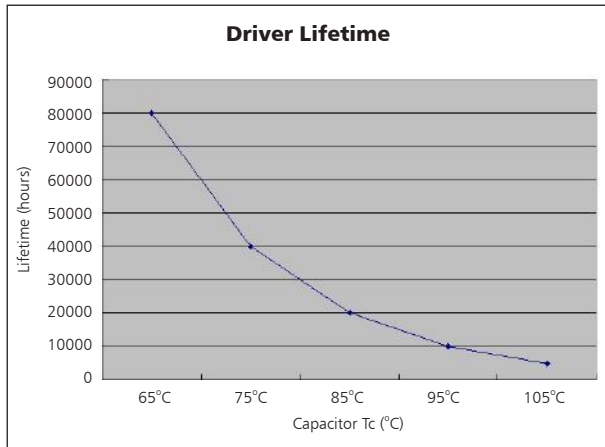
UNIT: cd

- C0/180, 89.1 deg
- C30/210, 90.2 deg
- C60/240, 90.1 deg
- C90/270, 89.7 deg

AVERAGE BEAM ANGLE (50%): 89.8DEG



Driver lifetime & LED light decay rate



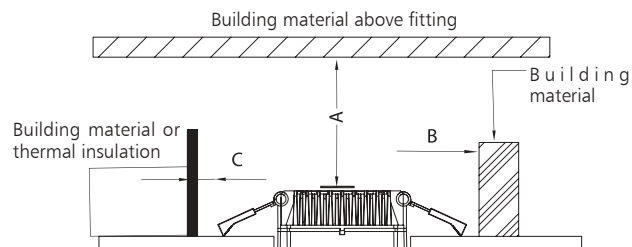
Temperature

- 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

Install requirements	
A-gap above the fitting	25mm
B-gap to the building material	25mm
C-gap to the thermal insulation	25mm



<p>Ceiling Opening Ø90-100mm</p> <p style="text-align: right;">1</p>	<p>Connect Power supply</p> <p style="text-align: right;">2</p>
<p>A. Hold back spring clips</p> <p>B. Push downlight into position</p> <p style="text-align: right;">3</p>	<p>Spring Clips</p> <p>Finish</p> <p style="text-align: right;">4</p>

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	37*48.5*20	0.28	8.7	24

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	775	18600	26
40" standard container	1550	37200	54

