



eCO lighting centre
Empowering LED illumination

Product Data Sheet | LED Downlight



LL-UXCL59-3-12W

Product Summary

- Super Bright LED COB Chip
- Significant Energy Saving of up to 80%.
- Simple Plug & Play Retrofit Installation.
- 23% Enhanced Capital Tax Allowance Claimable
- Approx. Lifespan of 40,000 hrs. or 10 years
- Shock and Vibration Resistant
- AC Dimmable Power Supply
- Certifications: CE, RoHS, FCC, SAA
- Warranty: 3 Years
- Equivalent to traditional light wattage: 2x18W CFL



Introduction



Eco Lighting Centre LL-UXCL59-3-12W downlight integrates SAMSUNG 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 40,000 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

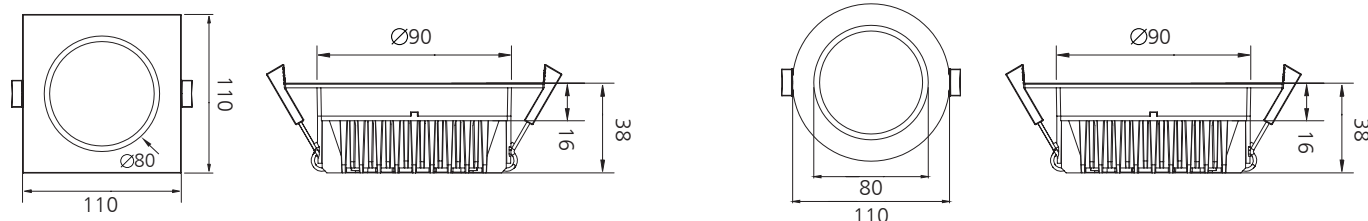
Application Areas

ELC 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



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
LL-UXCL59-3-12W LL-UXCL59-3-12WF	AC100-240V	12W	≥0.9	1105	90°	3000K	40000hs	≥80	No	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
LL-UXCL59-3-12W LL-UXCL59-3-12WF	AC100-240V	12W	≥0.9	1170	90°	4000K	40000hs	≥80	No	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
LL-UXCL59-3-12W LL-UXCL59-3-12WF	AC100-240V	12W	≥0.9	1170	90°	5000K	40000hs	≥80	No	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
LL-UXCL59-3-12W LL-UXCL59-3-12WF	AC100-240V	12W	≥0.9	1170	90°	5700K	40000hs	≥80	No	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
LL-UXCL59-3-12W-D LL-UXCL59-3-12WF-D	AC200-240V	12W	≥0.9	1080	90°	3000K	40000hs	≥80	Yes	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
LL-UXCL59-3-12W-D LL-UXCL59-3-12WF-D	AC200-240V	12W	≥0.9	1145	90°	4000K	40000hs	≥80	Yes	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
LL-UXCL59-3-12W-D LL-UXCL59-3-12WF-D	AC200-240V	12W	≥0.9	1145	90°	5000K	40000hs	≥80	Yes	Ø110*38mm cutout 90-100mm 110*110*38mm cutout 90-100mm
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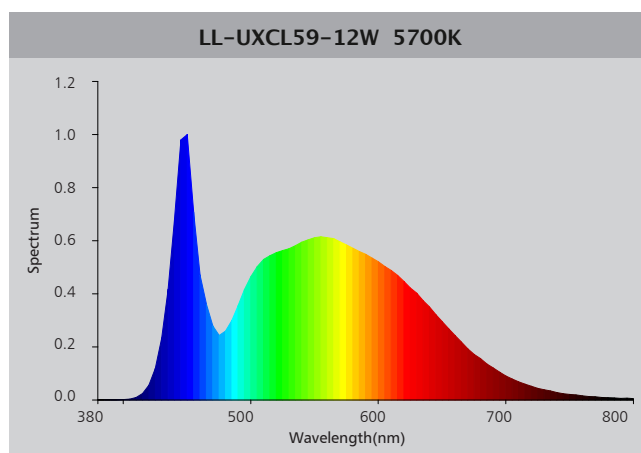
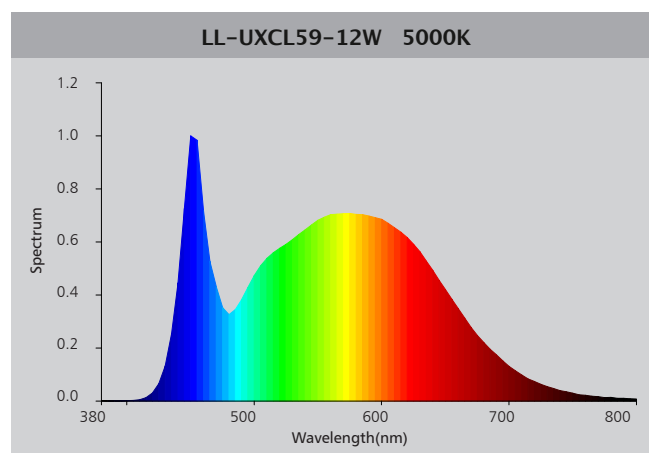
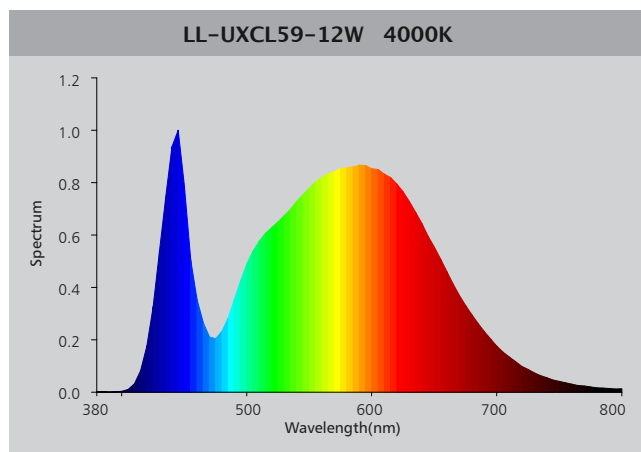
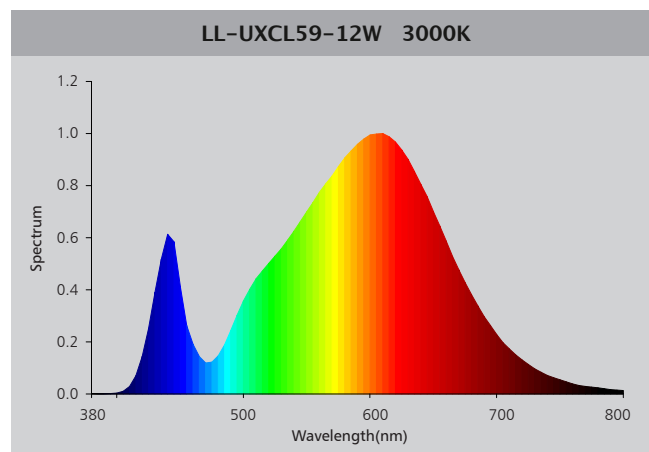
Driver data Sheet

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	380mA
Output current range	340mA-360mA	370mA-390mA
Tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	—
Dimmer	Triac dimmers	—
Withstand voltage	AC3750V	AC3750V

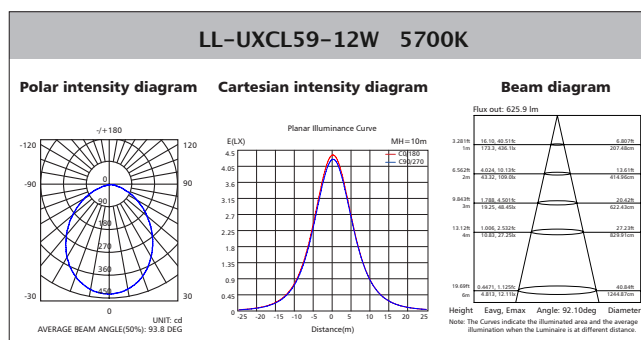
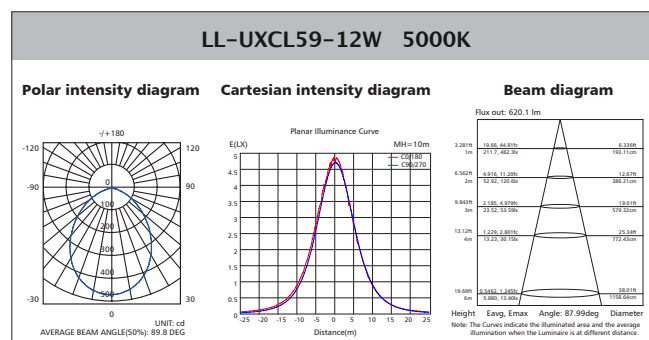
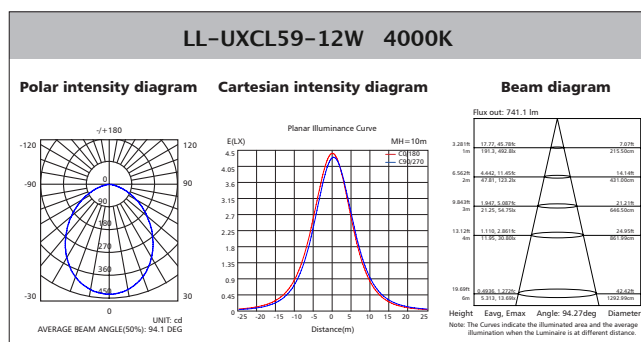
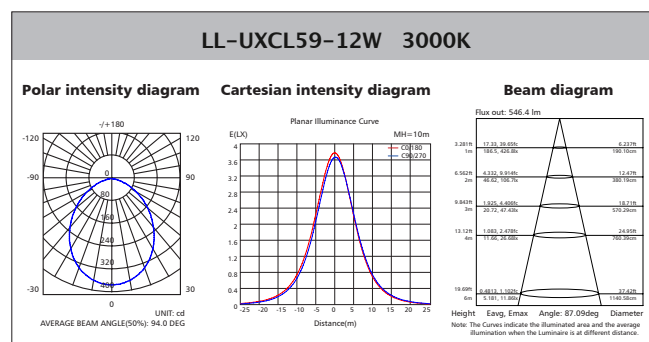
Fixture Compatibility

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

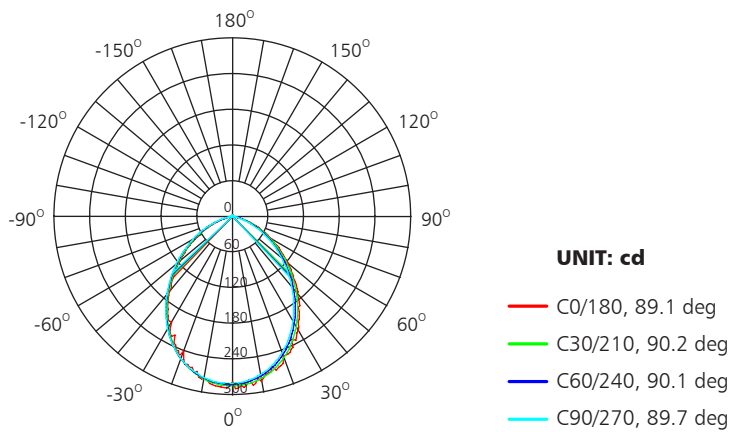
Spectral Distribution



Photometric Diagram



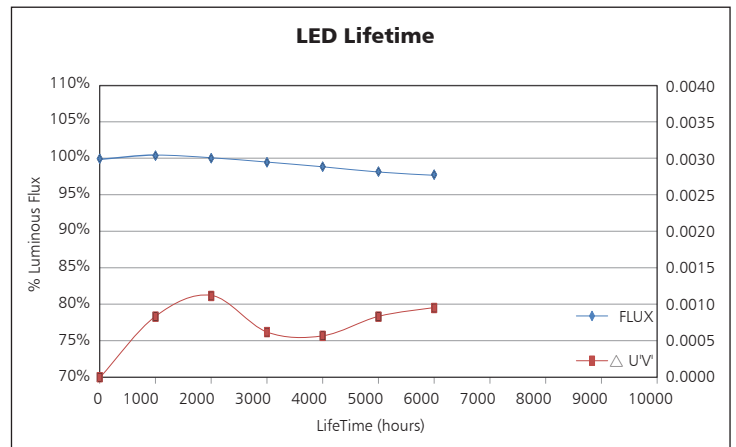
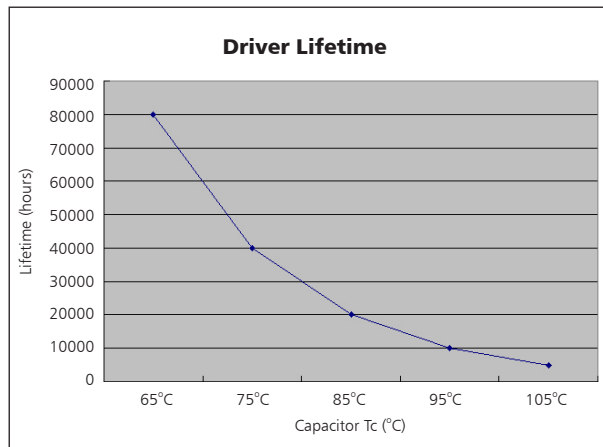
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 89.8DEG

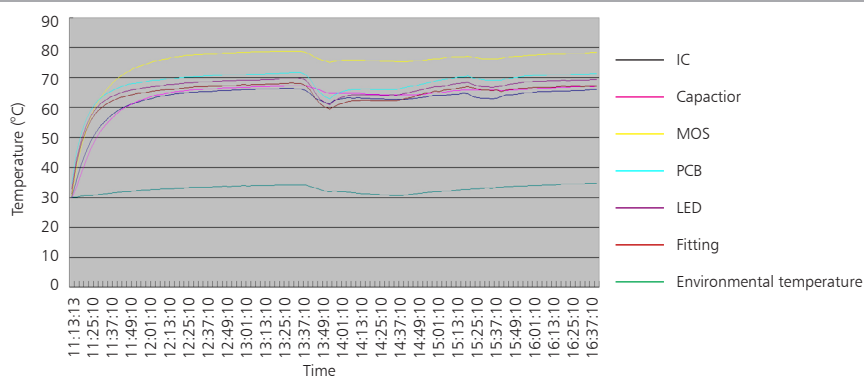


Driver lifetime & LED lifetime



Temperature

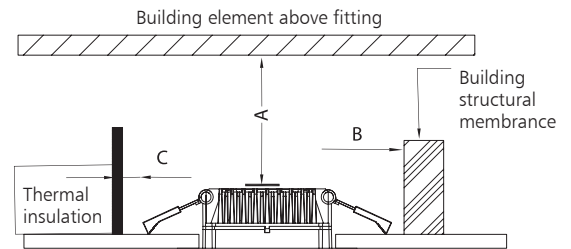
- The testing is operated at 35°C environment temperature.
- The minimum lifetime for capacitor is 5000hours at 105°C, the lifetime will be double when the temperature drop each 10°C
- Under 75°C working TEMP, max 40000hrs life time is achievable.
- The highest withstand temperature of IC is 120°C
- The highest withstand temperature of MOS is 120°C
- The highest withstand LED junction temperature is 120°C



The driver lifespan is based on capacitor working temperature.

Installation

Install requirements	
A-gap above the top of the fitting	25mm
B-side gap to the structural membrane	25mm
C-gap between thermal insulation	25mm



Ceiling opening $\varnothing 90-100\text{mm}$ 1	Connection Power 2
A. Vertical pull Latch B. Fasten the latch on the ceiling 3	Latch Catch Ceiling 4

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	47.5 x 42 x 25	0.4	11	24

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	560	13440	26
40" standard container	1161	27864	54

