



Technical Application Guide for XTLighting LED Downlight

XT.WR145-13W

Introduction



XTlighting SMD LED Down light adopts high lumen SMD LED, PMMA diffuser with even light output. White, silver, chrome surface treatments are available for wide choice. Triac dimmable, 0-10V dimmable and DALI dimmable version share great popularity by excellent dimming effect.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Triac dim, 0-10V dim, DALI dim
- 90° wide beam angle
- 120-130mm cutout
- CCT: 3000K 4000K
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP20/IP44 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

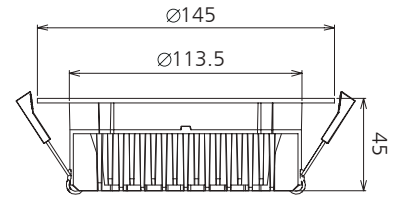
It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.

Certificate

CE **RoHS** **SAA**



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	CCT	Beam angle	Lifespan	CRI	Dimmable	Dimension
XT.WR145-13W	AC100-240V	13W	≥0.9	850	3000K	90°	50,000h	≥80	No	Ø145*45mm cutout 120-130mm
				880	4000K					
				900	5000K					
				950	5700K					
XT.WR145-13W-D	AC230V	13W	≥0.9	800	3000K	90°	50,000h	≥80	Yes	Ø145*45mm cutout 120-130mm
				830	4000K					
				860	5000K					
				900	5700K					

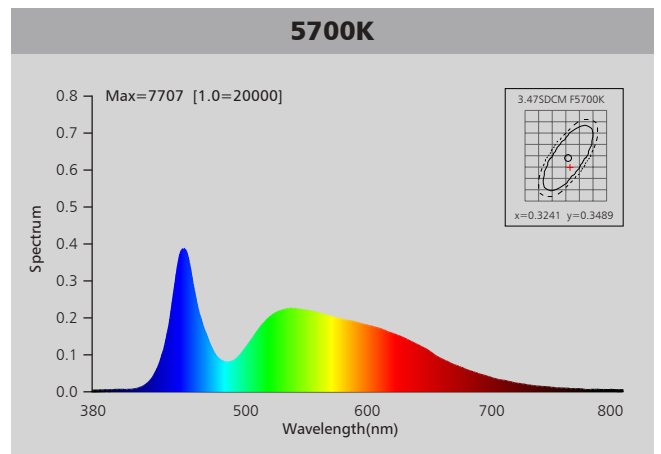
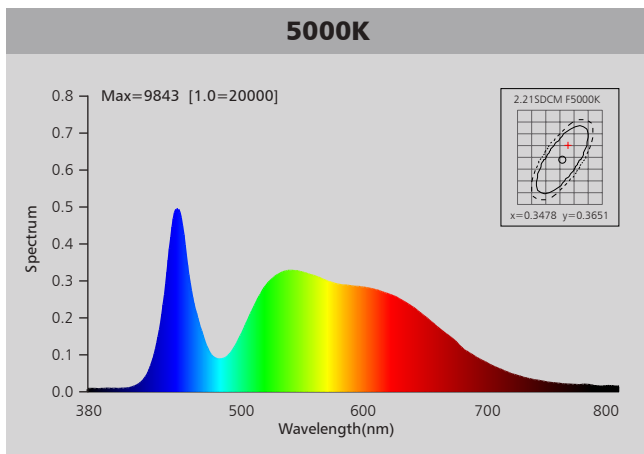
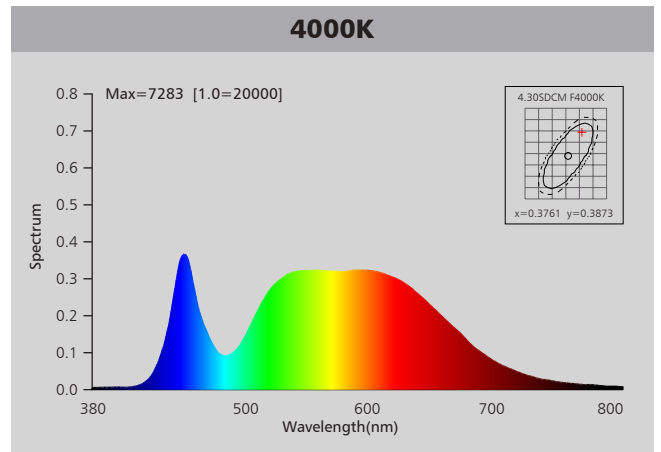
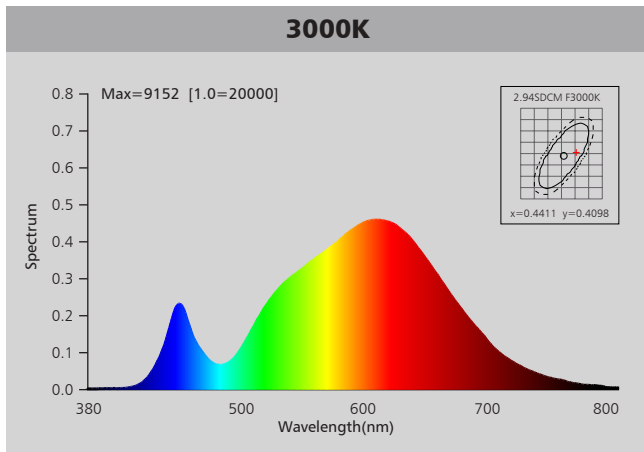
Driver data Sheet

Driver data	DIM	Non dim
Input rated Voltage	AC230V	AC100-240V
Frequency	50Hz	50/60Hz
Input Voltage	AC200-240V	AC85-265V
Efficiency	≥78%	≥86%
Total load Wattage	13W±1W	13W±1W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.08A	≤0.15A
Full load output Voltage	DC26-29V	DC26-29V
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	—
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
Withstand voltage	AC3750V	AC3750V

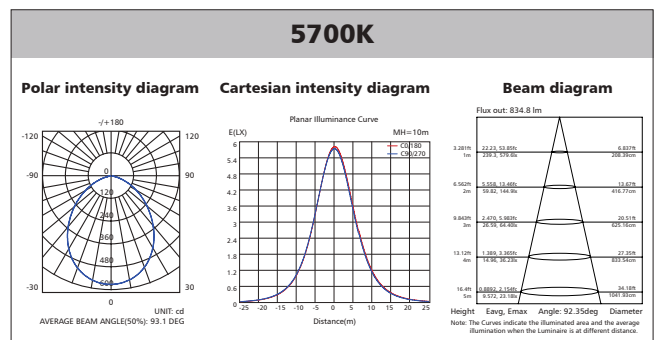
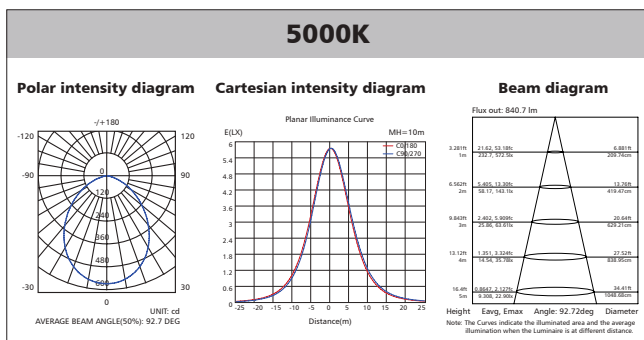
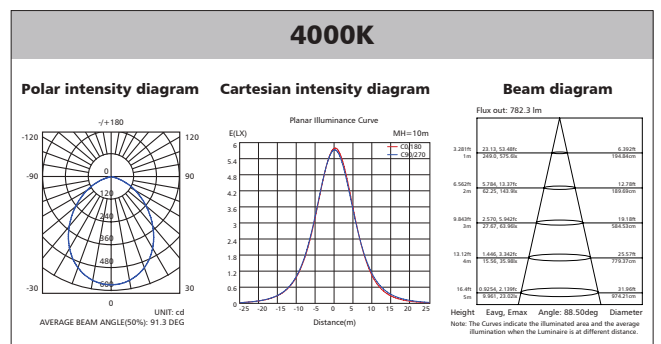
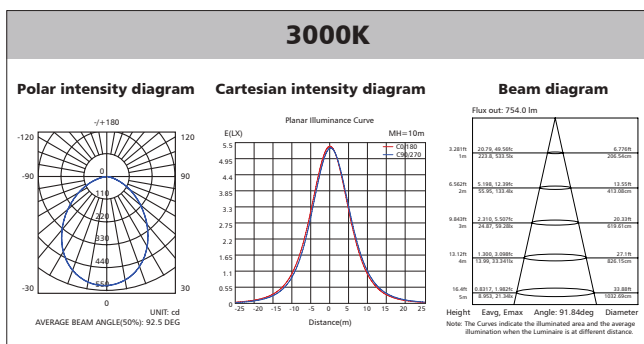
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
13W	II	IP20/IP44	-20°C~45°C	0~90%	-20°C~65°C

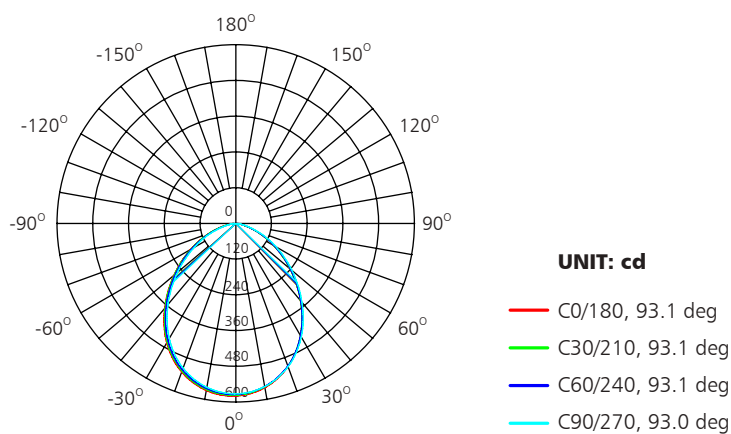
Spectral Distribution



Photometric Diagram



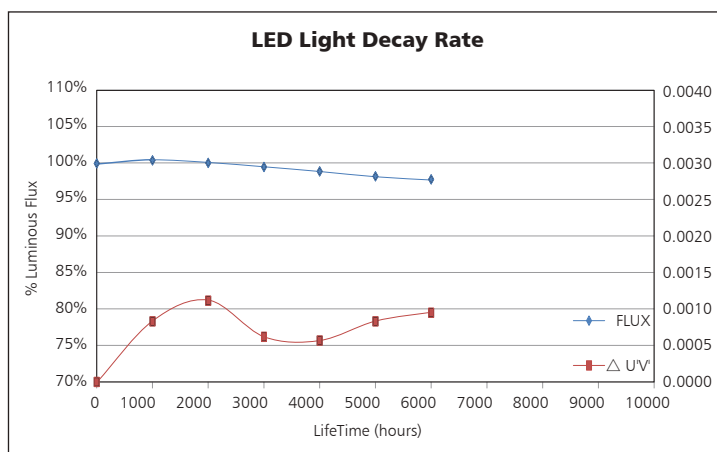
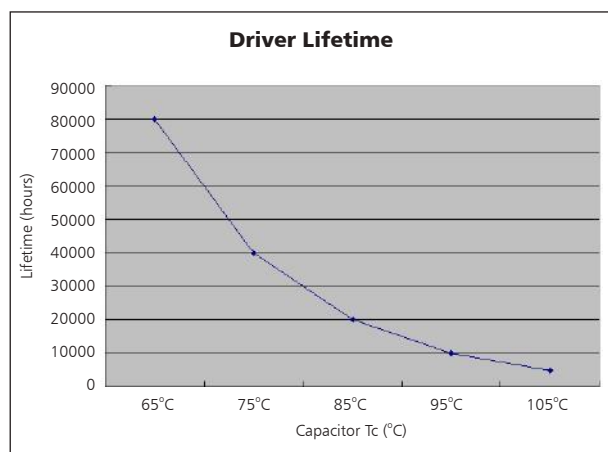
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 93.1DEG

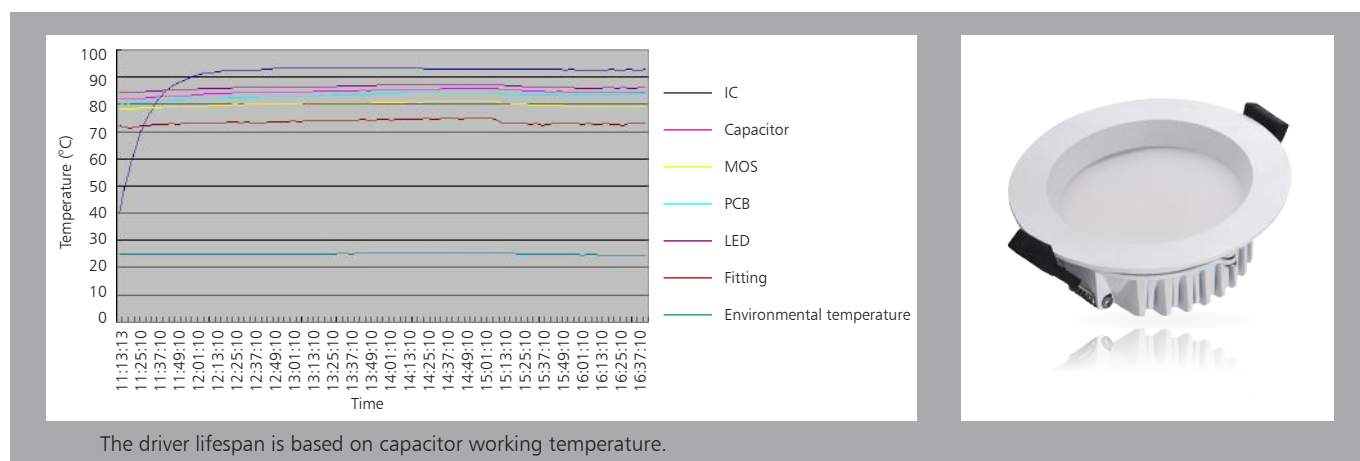


Driver lifetime & LED light decay rate



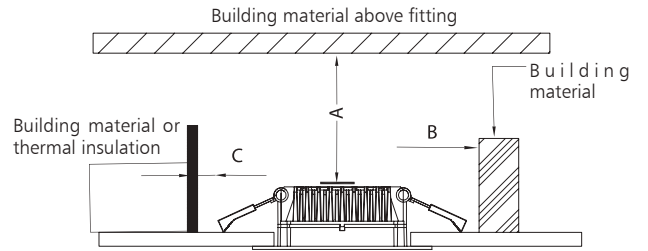
Temperature

- 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



Installation

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



Ceiling Opening Ø120-130mm

1

Connect Power supply

2

A. Hold back spring clips

B. Push downlight into position

3

Spring Clips

Finish

4

Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	52*36*51	0.59	22	30

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	290	8700	28
40" standard container	580	17400	56

