SPECIFICATION



Technical Application Guide for LED Downlight

UP-DL77-20W

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Introduction







COB downlight is unique designed with reflector and Citizen COB high power LED chip. ADC12 die-casting aluminium profile provides excellent thermal dissipation. Adjustable lighting direction provides all possible lighting effects. Isolated driver solution both in dimmable and non-dimmable version achieves great dimming compatibility with worldwide brand dimmers.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- Dimmable when using triac dimmer
- 36°/60° wide beam angle
- Ø120-130mm cutout
- CCT: 4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP20 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.

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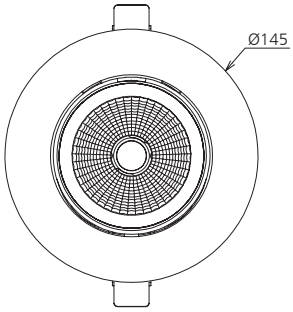
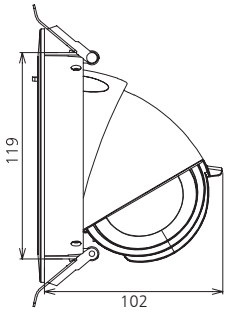
Product Information

5 Year Warranty





Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-DL77-4-20W	AC230V	20W	≥0.9	105lm/W	15°/24°/36°/60°	4000K	50000hs	≥80	No	Ø145*102mm cutout Ø120-130mm
UP-DL77-4-20W	AC230V	20W	≥0.9	105lm/W	15°/24°/36°/60°	5000K	50000h	≥80	No	Ø145*102mm cutout Ø120-130mm

Driver data Sheet

Driver data	Non dim
Input rated Voltage	AC230V
Frequency	50Hz
Input Voltage	AC200-240V
Efficiency	≥85%
Total load Wattage	20W±1W
Power Factor	≥0.9
Rated input current	≤0.13A
Full load output Voltage	DC23-40V
Rated output current	500mA
Output current range	500mA±5%
Power tolerance	±5%
Current output tolerance	±5%
Dimming range	—
Dimmer	—
THD	<18%
Short circuit protection	PASS
Over voltage protection	PASS
Over temperature protection	PASS
Withstand voltage	AC3750V

Fixture Compatibility

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

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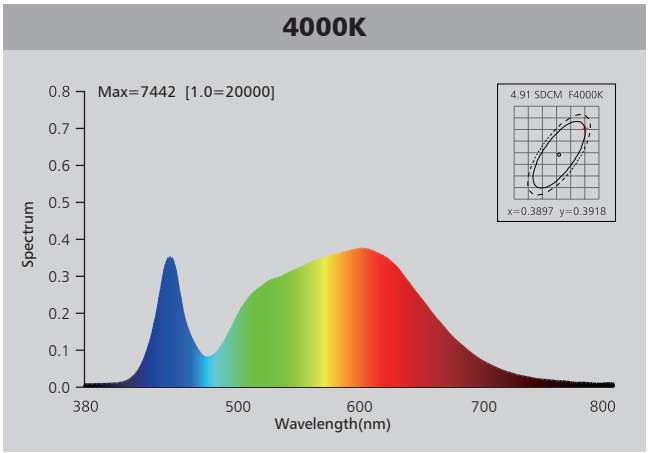
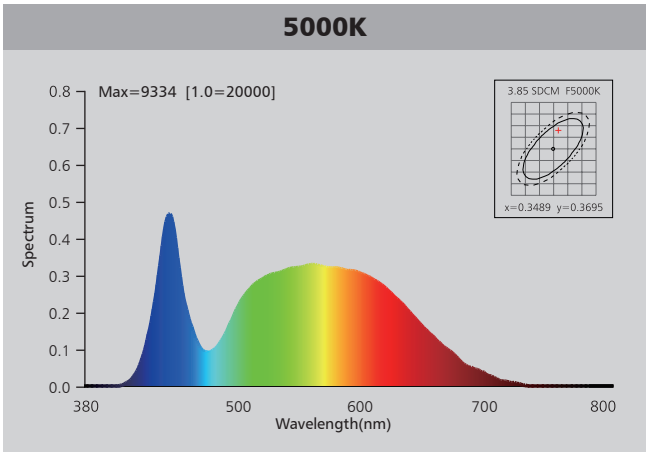
Spectral Distribution

4000K

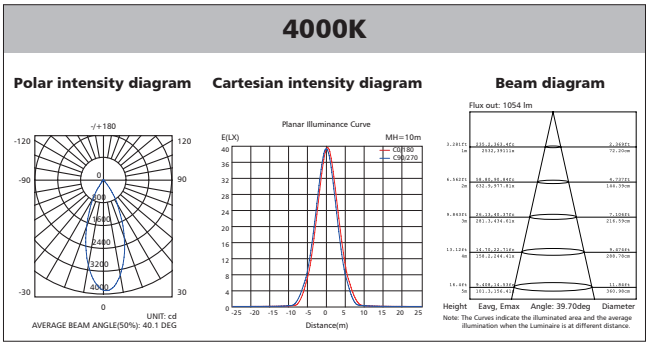


5000K

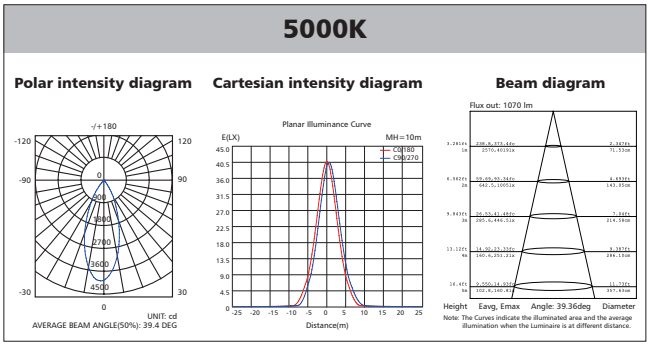


Photometric Diagram

4000K



5000K



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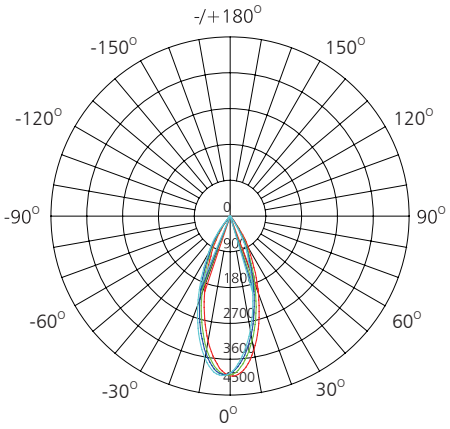
Polar Diagram Comparison



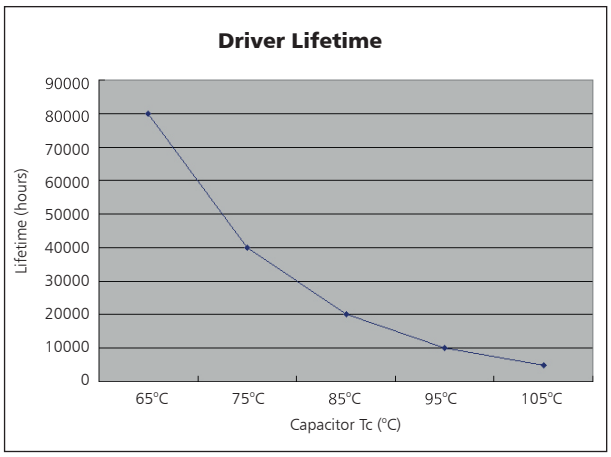
UNIT: cd

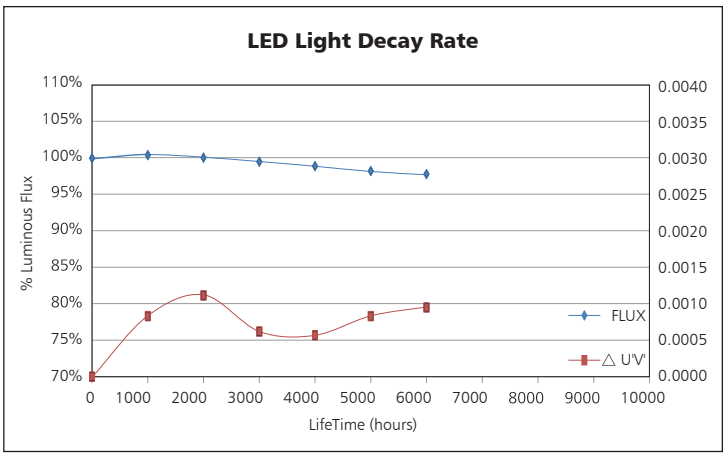
- C0/180, 39.3 deg
- C30/210, 39.4 deg
- C60/240, 39.3 deg
- C90/270, 39.3 deg

AVERAGE BEAM ANGLE (50%): 37.4DEG



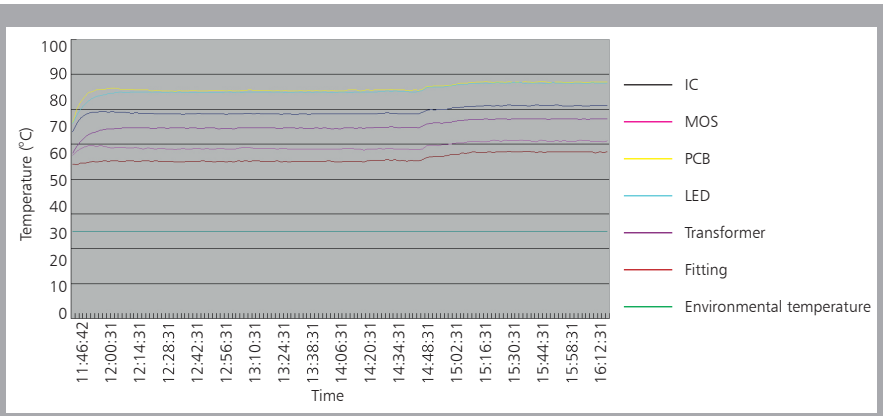
Driver lifetime & LED light decay rate

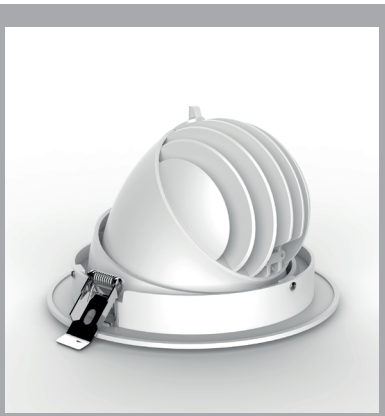




Temperature

- The testing is operated at 25°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.

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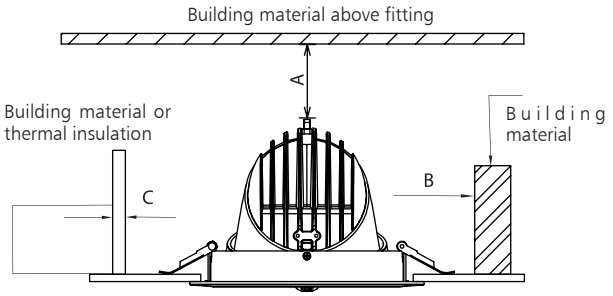
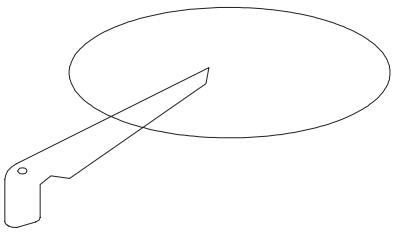
Installation

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

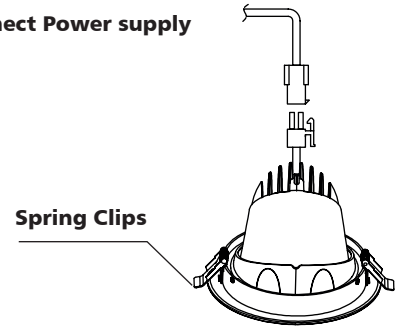


Ceiling Opening



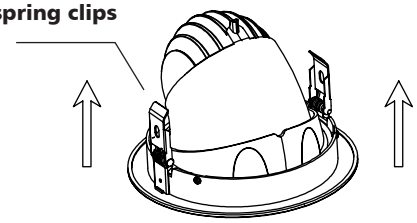
1

Connect Power supply



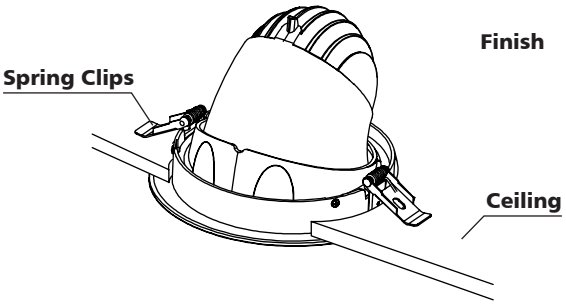
2

A. Hold back spring clips



B. Push downlight into position

3



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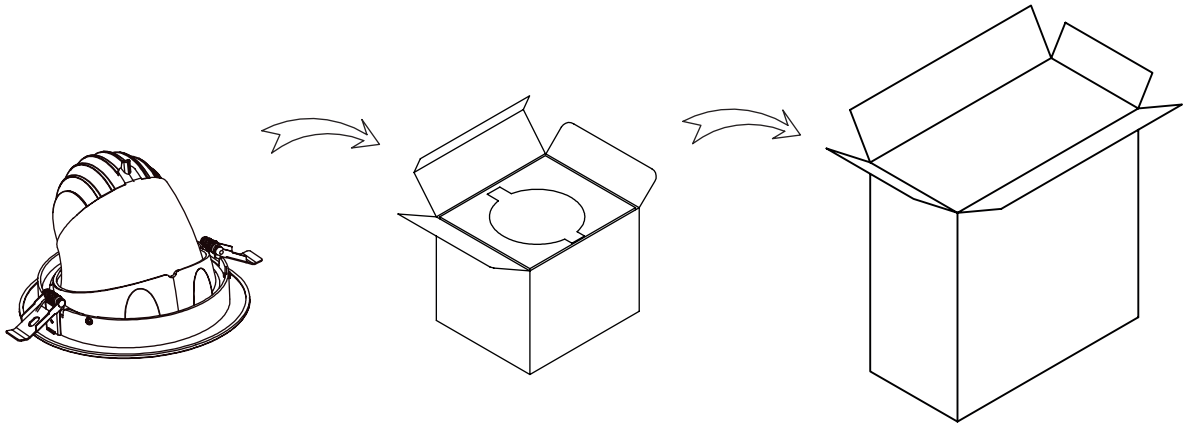
Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	50*34*41	0.57	13.47	18

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	396	7128	28
40" standard container	792	14256	56



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