



Up-shine[®] Lighting



Technical Application
Guide for UP-SHINE
LED Downlight
UP-RD01-C-60W

Introduction



SMD Rectangular downlight achieves high lumen output, 120° wide beam angle. AL6063 Aluminum profile provides excellent thermal dissipation. External driver solution achieves stable working performance and easy maintenance. Tilt head provides various lighting direction for different applications. Widely used for different commercial lighting situations.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- 120° wide beam angle
- L225XW130mm cutout
- CCT: 3000K 4000K
5000K 5700K
- 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

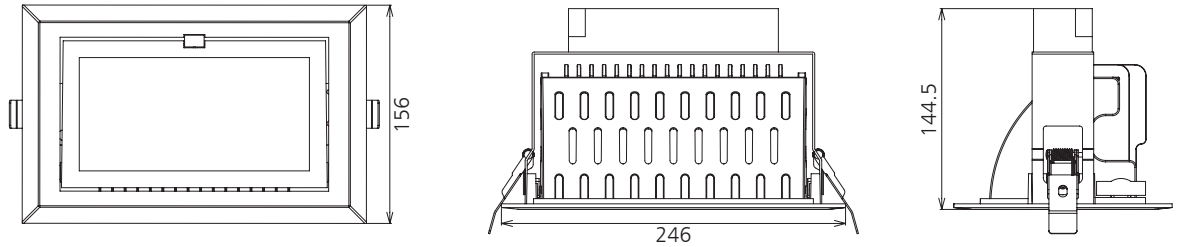
Application Areas

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.

Certificate



Product Information



Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
UP-RD01-C-60W	AC100-277V	60W	≥0.9	5300	120°	3000K	40000h	≥80	No	L246*W156*H144.5mm cutout L225*W130mm
UP-RD01-C-60W	AC100-277V	60W	≥0.9	5350	120°	4000K	40000h	≥80	No	L246*W156*H144.5mm cutout L225*W130mm
UP-RD01-C-60W	AC100-277V	60W	≥0.9	5400	120°	5000K	40000h	≥80	No	L246*W156*H144.5mm cutout L225*W130mm
UP-RD01-C-60W	AC100-277V	60W	≥0.9	5450	120°	5700K	40000h	≥80	No	L246*W156*H144.5mm cutout L225*W130mm

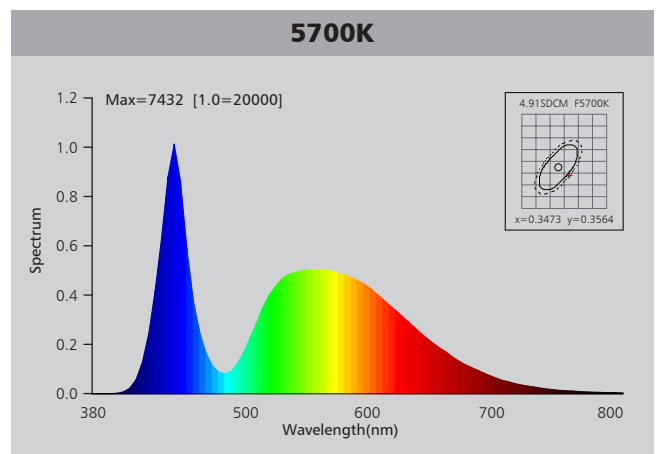
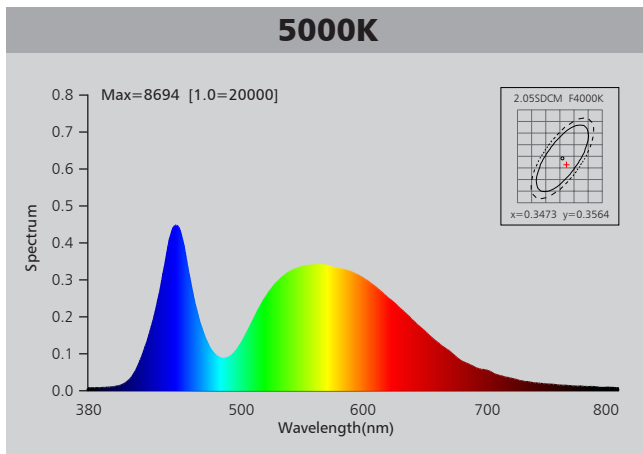
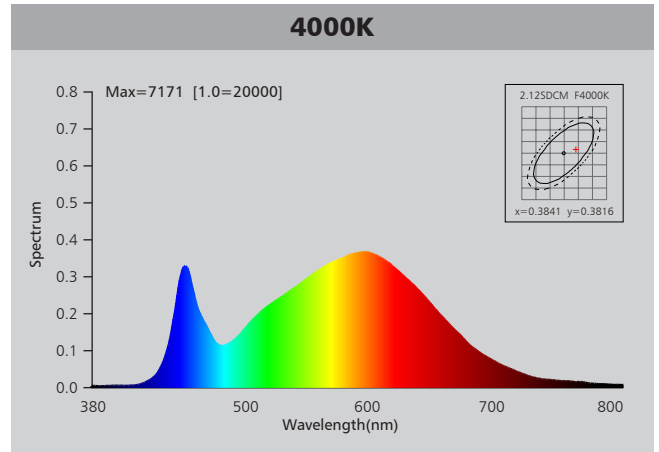
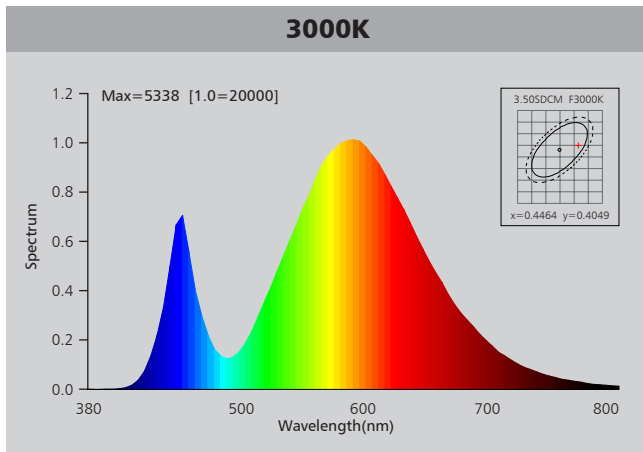
Driver data Sheet

Driver data	Non-dim
Input rated Voltage	AC100-277V
Frequency	50/60HZ
Input Voltage	AC95-305V
Efficiency	≥85%
Total load Wattage	60W±5%
Power Factor	≥0.9
Rated input current	≤0.67A
Full load output Voltage range	DC35-38V
Rated output current	1400mA
Output current range	1400mA±5%
Power tolerance	±5%
Current output tolerance	±5%
Short circuit protection	PASS
Over voltage protection	PASS
Over temperature protection	PASS
Withstand voltage	AC3750V

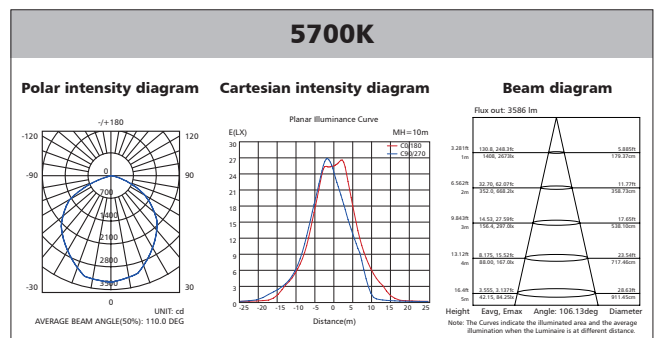
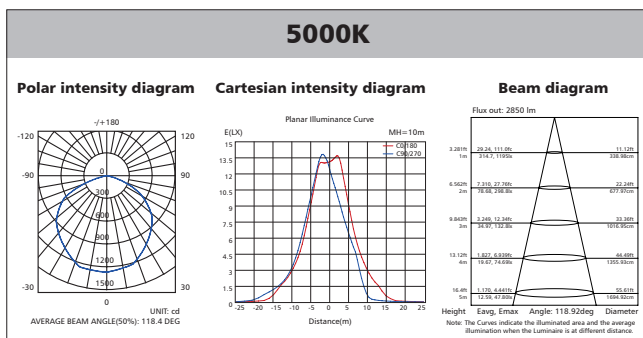
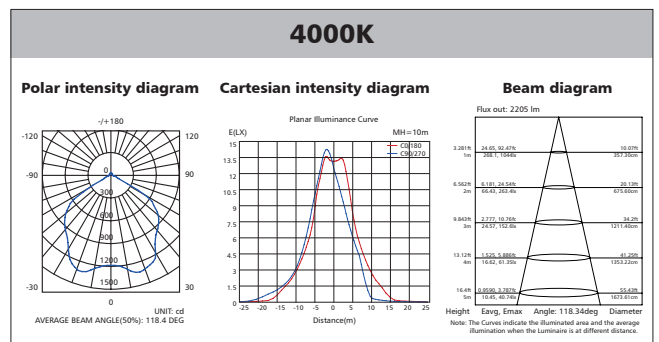
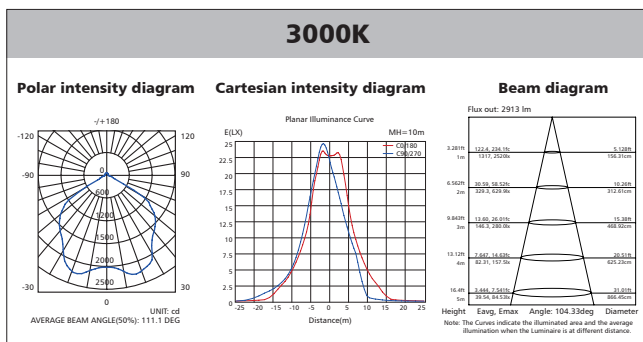
Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
60W	II	IP20	-20°C~45°C	0~90%	-20°C~65°C

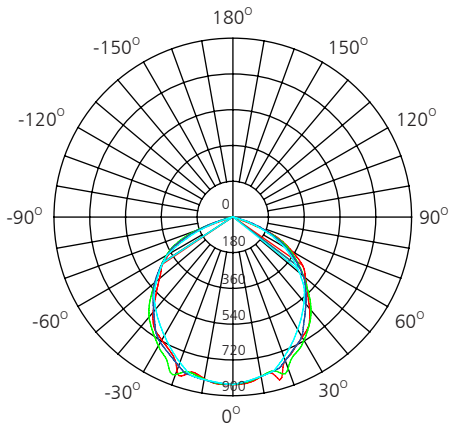
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



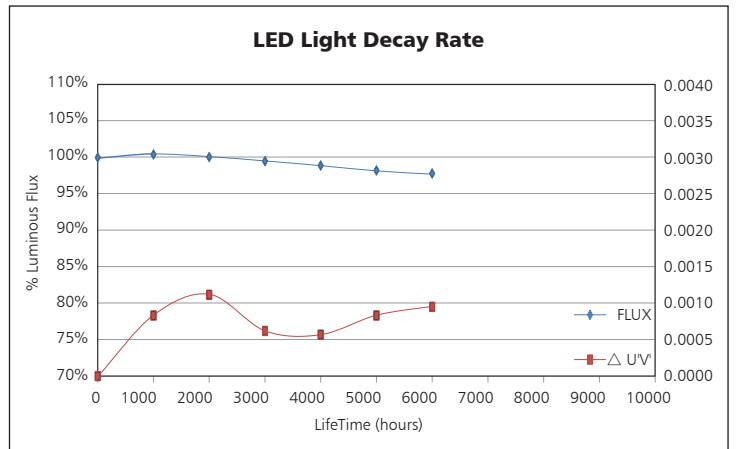
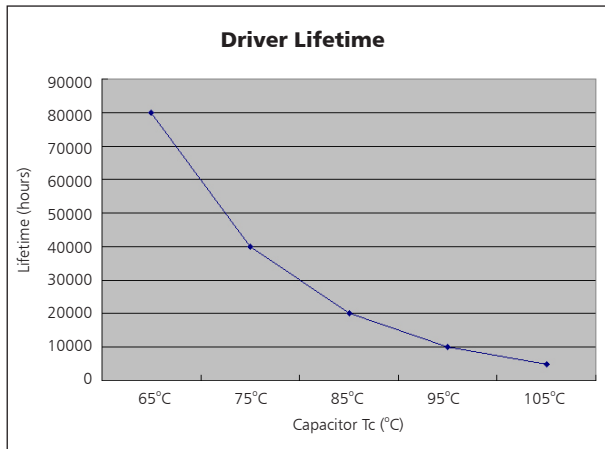
UNIT: cd

- C0/180, 111.6 deg
- C30/210, 110.0 deg
- C60/240, 110.0 deg
- C90/270, 108.1 deg



AVERAGE BEAM ANGLE (50%): 109.9DEG

Driver lifetime & LED light decay rate



Temperature

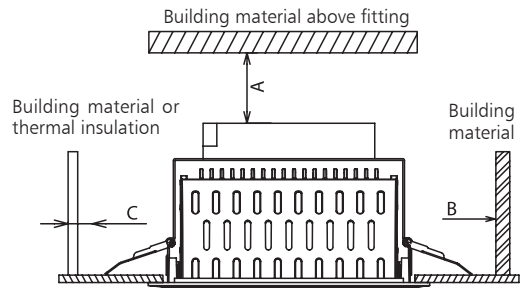
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C

Time	IC	Capacitor	MOS	PCB	LED	Fitting	Environmental temperature
11:13:13	30	30	30	30	30	30	30
11:25:10	60	60	60	60	60	60	30
11:37:10	65	65	65	65	65	65	30
11:49:10	68	68	68	68	68	68	30
12:01:10	70	70	70	70	70	70	30
12:13:10	72	72	72	72	72	72	30
12:25:10	75	75	75	75	75	75	30
12:37:10	70	70	70	70	70	70	30
12:49:10	68	68	68	68	68	68	30
13:01:10	65	65	65	65	65	65	30
13:13:10	62	62	62	62	62	62	30
13:25:10	60	60	60	60	60	60	30
13:37:10	65	65	65	65	65	65	30
13:49:10	68	68	68	68	68	68	30
14:01:10	70	70	70	70	70	70	30
14:13:10	72	72	72	72	72	72	30
14:25:10	75	75	75	75	75	75	30
14:37:10	70	70	70	70	70	70	30
14:49:10	68	68	68	68	68	68	30
15:01:10	65	65	65	65	65	65	30
15:13:10	62	62	62	62	62	62	30
15:25:10	60	60	60	60	60	60	30
15:37:10	65	65	65	65	65	65	30
15:49:10	68	68	68	68	68	68	30
16:01:10	70	70	70	70	70	70	30
16:13:10	72	72	72	72	72	72	30
16:25:10	75	75	75	75	75	75	30
16:37:10	70	70	70	70	70	70	30

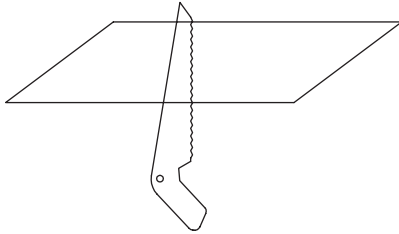
The driver lifespan is based on capacitor working temperature.

Installation

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

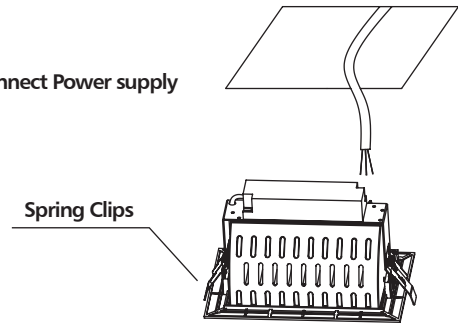


Ceiling opening



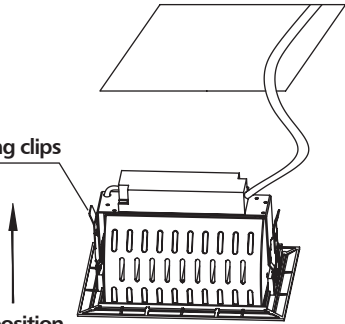
1

Connect Power supply



2

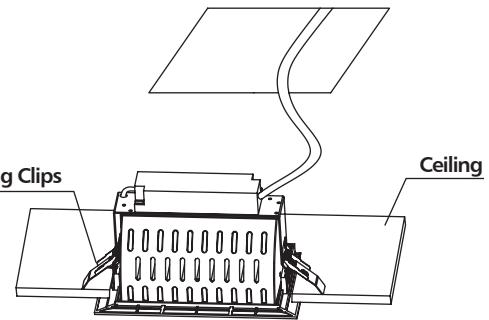
A. Hold back spring clips



3

B. Push downlight into position

Spring Clips



4

Packaging Information

	SIZE(CM)	N.W./pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	60*29*41.5	2.5	15	6

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	382	2292	28
40" standard container	764	4584	56

