



LED Ceiling Light
AL191 Series



Introduction

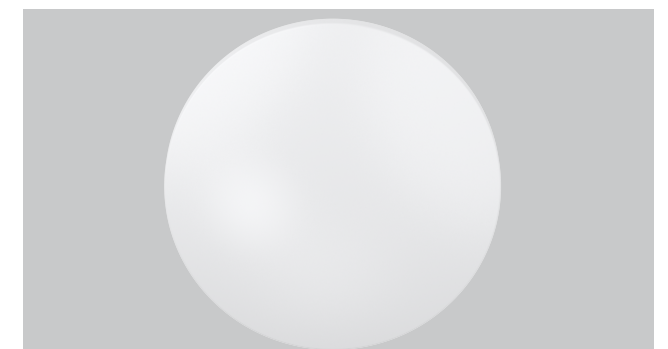
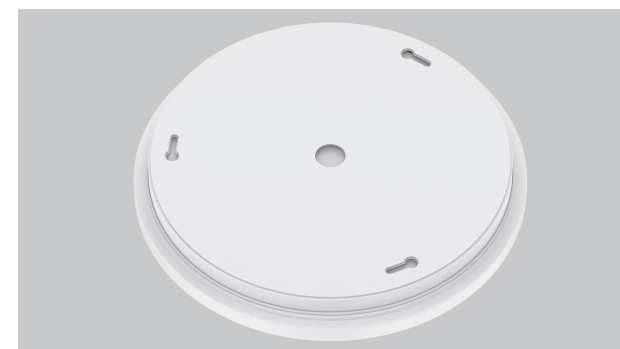
This is a high cost performance ceiling light with perfect line. Adopt high lumen 2835 SMD chip and PC diffuser, the whole design has a large lighting area and light weight. Easy installation, it is twist mounting after fixing the holder on the ceiling, avoid extra nail screw work, safe and convenient.

Features

- Up to 70% energy saving compared to standard CFL.
- Wide beam angle 120 degrees.
- PMMA cover with high transmittance.
- IP44 IK05 protection level.
- Twist operation for quick installation.
- Internal flicker free driver.

Application Areas

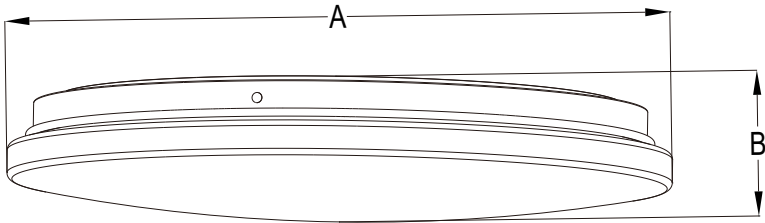
It's widely used in shopping mall, bank, hotel, restaurant, living room etc.





Technical Data Sheet

Code No.			AL191-10-12W	AL191-13-18W	AL191-15-24W
Dimension(mm)			Ø255*74	Ø330*74	Ø380*74
Cutout (mm)			-		
Watt(W)			12W	18W	24W
Rated Input Voltage(V)			AC220-240V		
Input Voltage(V)			AC198-264V		
LED Module Input			-		
Light Source			SMD		
SDCM			< 6		
CCT(K)			1-CCT: 3000K/4000K/5000K/5700K 3-CCT: 3000K + 4000K + 5700K		
CCT Selection DIP Switch			Yes		
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	1180-1310	1720-1900	2300-2540
	DIM		1120-1240	1630-1800	2180-2400
	Non-DIM	3-CCT	1180-1310	1720-1900	2300-2540
	DIM		1120-1240	1630-1800	2180-2400
CRI			≥80		
Beam Angle (°)			120°		
UGR			-		
LED Driver			Driver built-in		
Dimming Option			Triac		
Sensor			Microwave sensor		
Emergency Kits			NO		
Electrical Class			Class I		
Ingress Protection (IP Rating)			IP44		
Impact Resistance (IK Rating)			IK05		
Product Finishing(Base)			White		
Materials of Optics			PC(Lens) + PMMA(Diffuser)		
Materials of Housing			SPCC		
Lifetime (hr)			50,000h		
Glow wire test (°C)			650°C		
Operating Temp. (°C)			-10°C~45°C		
Storage Temp. (°C)			-20°C~50°C		
Installation			Surface Mount		



Measurement

Model	Dimension(mm)		Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/CTN	20GP (pcs)	40HQ (pcs)
	A	B		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
AL191-10"	255	74	Ø255*74	0.28	0.44	2.8	5.6	53.5*40.5*28.5	10	4640	10980
AL191-13"	330	74	Ø330*74	0.42	0.63	4.2	7.3	67.5*40.5*35.5	10	2760	6720
AL191-15"	380	74	Ø380*74	0.58	0.84	4.64	7.7	65*39.5*41	8	1840	4848

Driver Datasheet (Non-Dimmable)

Total load wattage		12W	18W	18W	24W
Output	Rated output current	140mA	200mA	215mA(3CCT)	315mA
	Output Voltage range	DC70-85V			DC65-75V
	Line Regulation	±5%			
	Setup, Rise Time	≤0.5S			
	Flickering Index	3%,IEEE1789 NO RISK			
Input	Rated Input Voltage(V)	AC220-240V			
	Input Voltage	AC198-264V			
	Frequency	50/60Hz			
	Rated Input Current	≤0.07A	≤0.1A		≤0.13A
	Input Current	≤0.07A	≤0.11A		≤0.14A
	Power Factor	0.9			
	THD	<20% @230V			
	Efficiency	≥88%		≥90%	≥88%
	No load wattage	<0.5W			
Protection	Short circuit protection	PASS			
	Over voltage protection	PASS			
	Over temperature protection	PASS			
Safety &EMC	Withstand voltage	—			
	Isolation Resistance	—			
	Surge	IEC/EN61000-4-5(P<25W; L-N:500V)			
	EMC Emission	EN55015, EN61000-3-2			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547			

Driver Datasheet (Triac Dimmable)

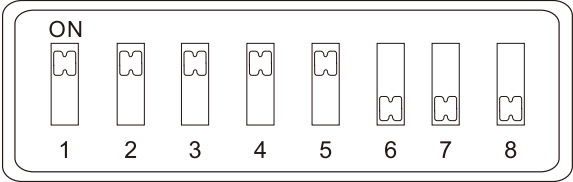
Total load wattage		12W	18W	24W
Output	Rated output current	125mA	185mA	280mA
	Output Voltage range	DC70-85V		
	Line Regulation	<5%		
	Setup, Rise Time	<0.5S@AC230V		
	Flickering Index	<5%(LOW RISK)		
Input	Rated Input Voltage(V)	AC220-240V		
	Input Voltage	AC198-264V		
	Frequency	60Hz		
	Rated Input Current	<0.07A	<0.1A	<0.13A
	Input Current	<0.07A	<0.11A	<0.14A
	Power Factor	≥0.9		
	THD	—		<20%
	Efficiency	≥82%		≥84%
Protection	No load wattage	<0.7W		
	Short circuit protection	Pass		
	Over voltage protection	Pass		
Safety &EMC	Over temperature protection	Pass		
	Withstand voltage	—		
	Isolation Resistance	—		
	Surge	IEC/EN61000-4-5(P<25W; L-N:500V)		
	EMC Emission	EN55015, EN61000-3-2		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547		

Datasheet (Sensor)

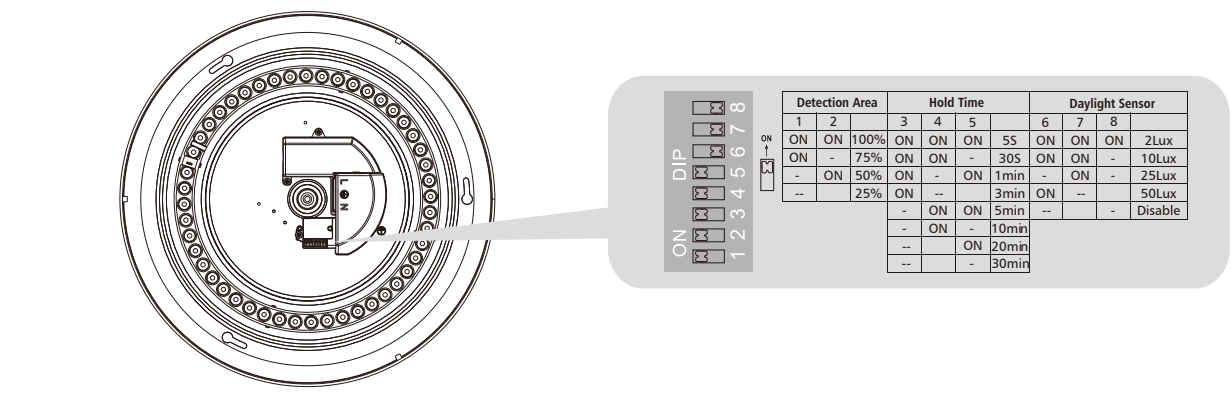
Sensor datasheet	
Operating voltage	220-240VAC 50/60Hz
Power consumption	≤0.1W
Microwave frequency	5.8GHz±75MHz, ISM wave band
Transmission power	<0.5mW
Detection angle	140°
Detection Area	4-6m 100%/75%/50%/25% Adjustable
Hold time	5S/30S/1min/3min/5min/10min/20min/30min Adjustable
Daylight sensor	2Lux/10Lux/25Lux/50Lux/Disable Adjustable
Stand-by DIM Level	-
Stand-by Period	-
Dimming Range	-
Microwave ON/OFF function	-
Installation Height	Recommended Installation Height: Wall mounted height 1.8m. Ceiling mounted height 3m.
Minimum mounting distance	recommended mounting distance should be more than 3m
Operating temperature(°C)	-20°C~60°C

Factory settings:

Factory settings		
Detection Area	Hold Time	Daylight Sensor
100%	5S	Disable



Sensor setting:



Detection Area			
	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	25%

Hold Time				
	3	4	5	
I	ON	ON	ON	5S
II	ON	ON	-	30S
III	ON	-	ON	1min
IV	ON	-	-	3min
V	-	ON	ON	5min
VI	-	ON	-	10min
VII	-	-	ON	20min
VIII	-	-	-	30min

Daylight Sensor				
	6	7	8	
I	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
III	-	ON	-	25Lux
IV	ON	-	-	50Lux
V	-	-	-	Disable

Detection area:

Sensortest condition: The test is based on 3m height, the detect distance radius is based on ground, the detect distance can be adjusted through the slide switch.

Sensor test environment and reference: The detective range is measured by human body whose stature is around 1.6-1.7M with medium size and traveling speed is around 1.0-1.5M per second. If the stature, bodily form and traveling speed are changed,then the detective range will be changed accordingly.

Sensor lamp's reaction under open/narrow environment: Test result will be highly influenced by test environment, the more open environment, the closer detect distance; the narrower environment, the longer detect distance. The detector may do self-excitation in a narrow environment.

Sensor Setting based on environmental disturbance: Some environmental disturbances will cause abnormal induction, such as the lamp can not automatically turn off for a long time or the sensor function is invalid, then users can adjust sensor distance to reach the ideal effect. It is recommended to adjust the sensing distance to 50% for the environment where near the heavy equipment, metal sheets and metal pipes, concrete wall (<30cm thickness) etc. Recommend to keep 100% sensor distance in open environment. For environment where near the routers, telecommunications base stations, electrical machinery etc, it is recommended to keep the installation distance of more than 5 meters and adjust to 50% sensor distance.

Hold time:

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Notice 1: The hold time can be selected by the slide switch.

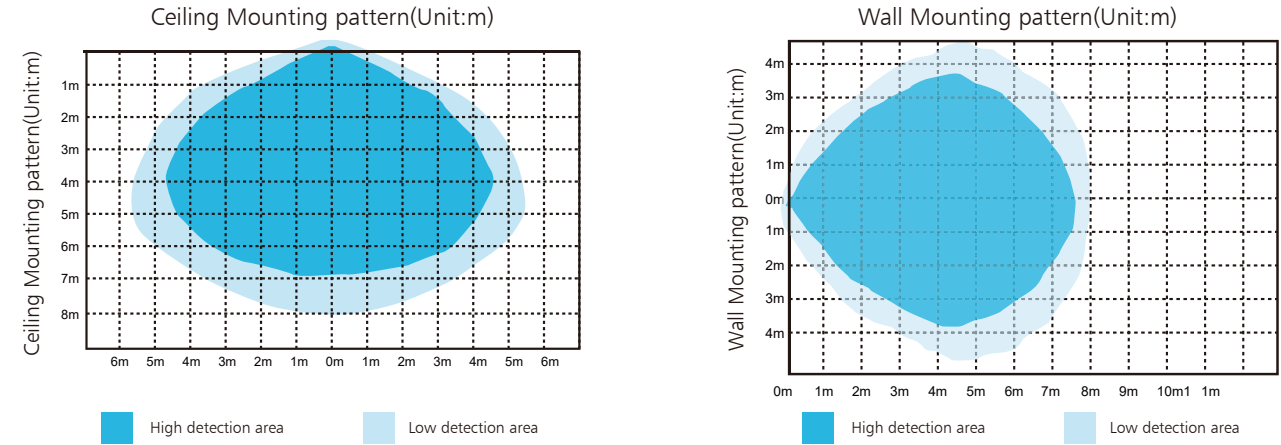
The hold time counting should be started after the sensor is powered on and initialized.

Daylight sensor:

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

Notice 1: The light threshold can be selected through the slide switch, it may cause a large deviation in different lamps.

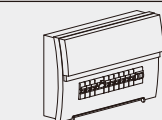
Induction Range



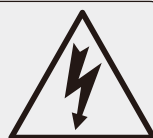
■ Installation Instruction

WARNING ⚡

1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.

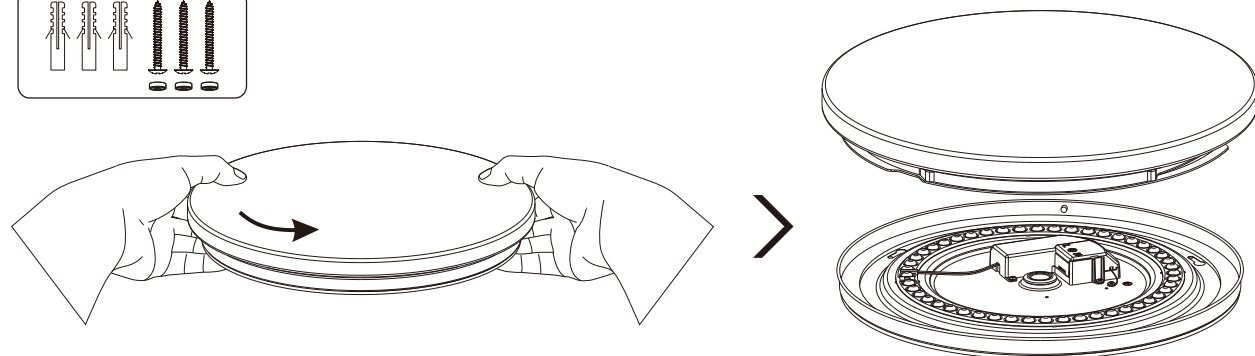
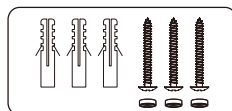


Turn Off
Power Supply

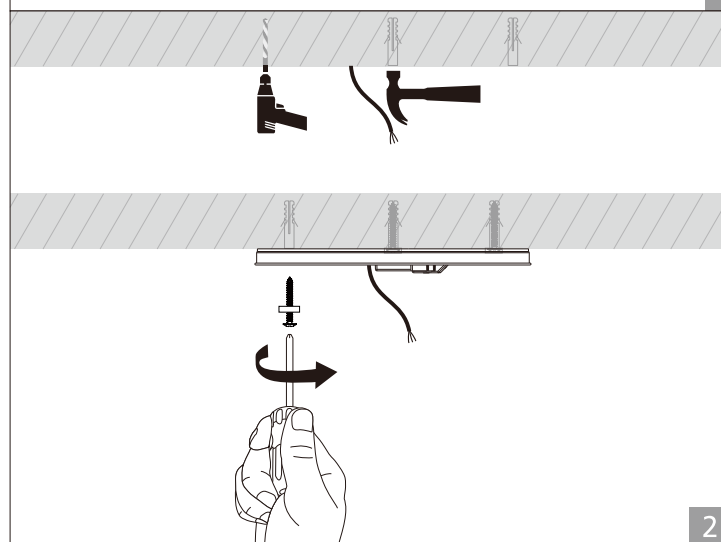


Turn Off power supply before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

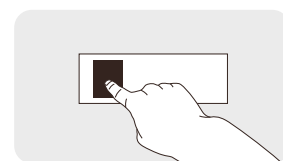
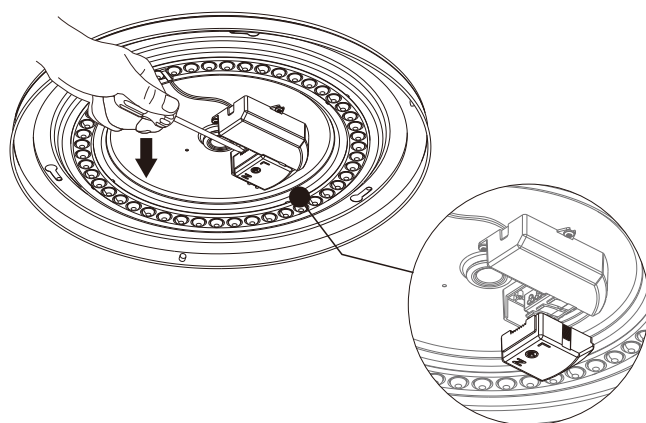
■ Surface mounted installation



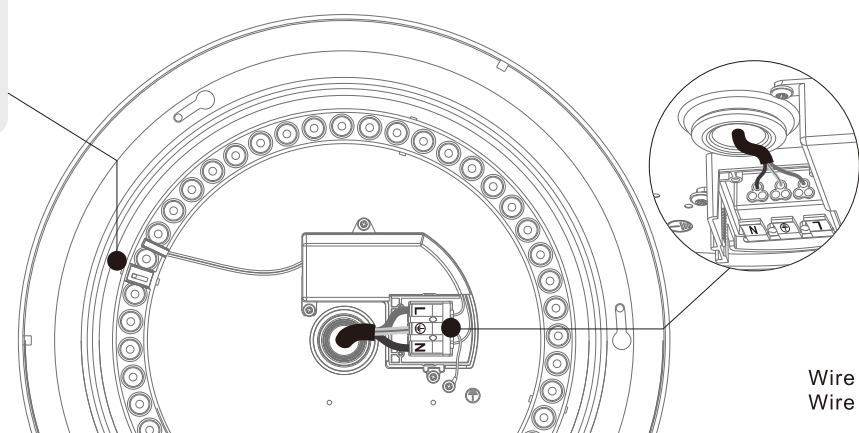
1



2 3



select preferred colour
temperature for product in
CCT change function only



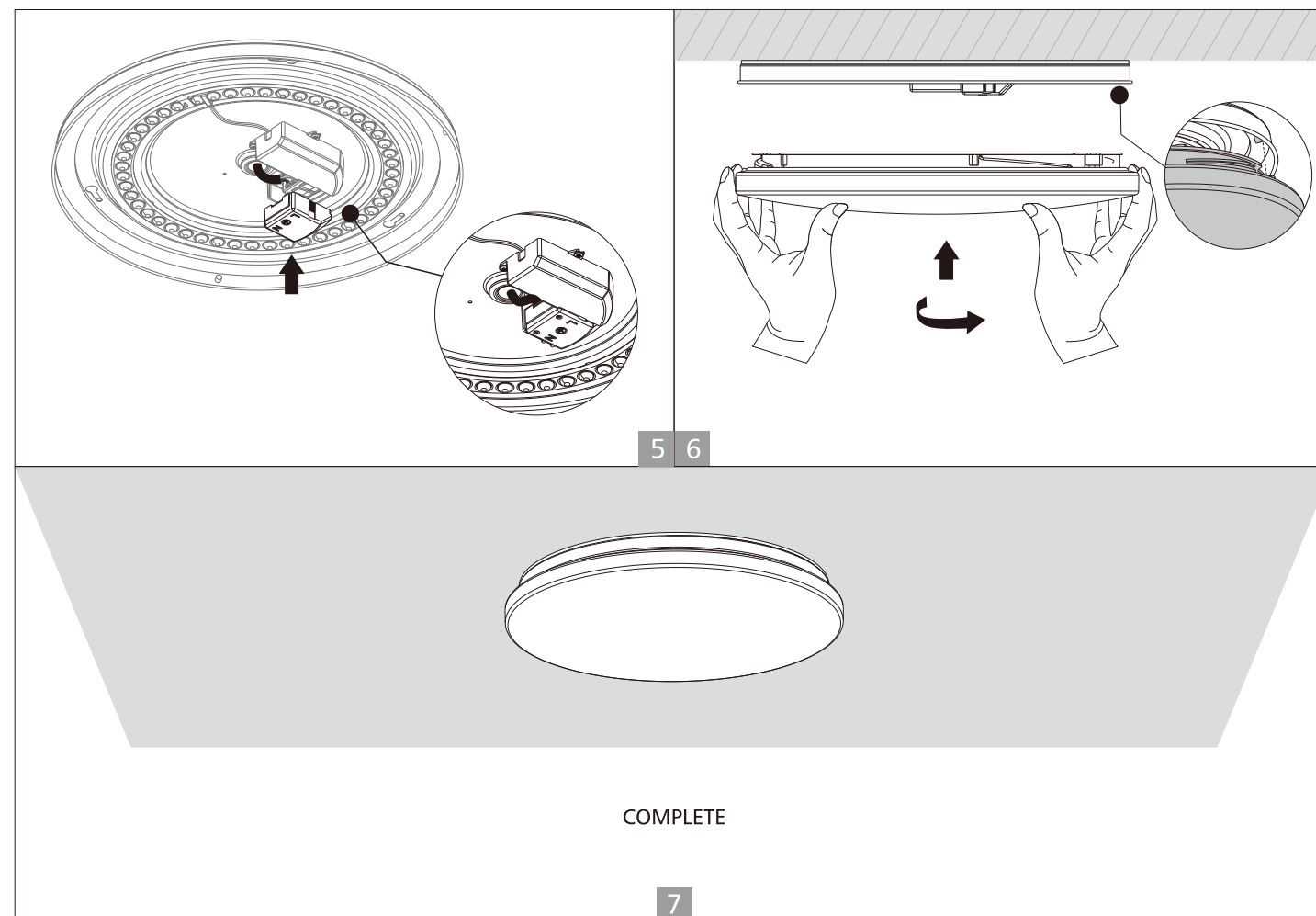
Standard



L = Switched
⊕ = Earth
N = Neutral

Wire diameter: 0.75-2.5mm²
Wire stripping length: 8-10mm

4



COMPLETE

7



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