

Entry / ECO

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STD
Specifications



LED Ceiling Light
AL12B Series

 **RL Europe**
Your partner in LED



Introduction

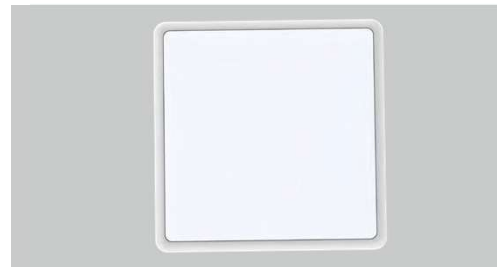
This ceiling light is a super slim design—48mm. High lumen SMD LED and lighter weight fire-rated material to ensure better heat resistance and corrosion resistance. The color is interchangeable within 3000k, 4000k and 5700k by slide switch, also dimmable with triac dimmers. Multi-functional design shares great popularity.

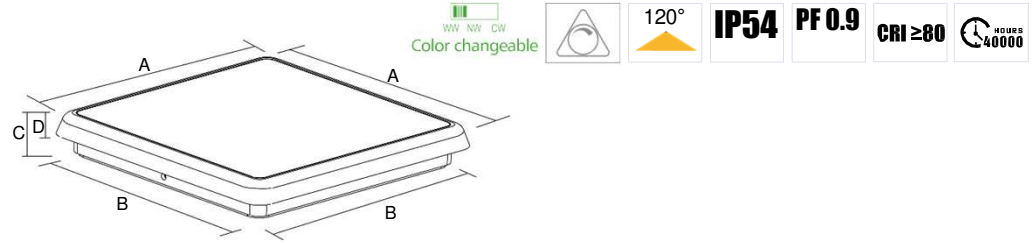
Features

- High lumen efficiency
- Interchangeable CCT(3000/4000/5700k) with slide switch
- IP54 in front
- Triac dimming
- Internal driver

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





Technical Data Sheet

Code No.	AL12B-10-12W	AL12B-12-18W	AL12B-12-25W	AL12B-14-25W	AL12B-16-30W			
Dimension(mm)	250*250*50mm	300*300*40mm	300*300*40mm	350*350*41mm	400*400*51mm			
Cutout (mm)	-							
Watt(W)	12W	18W	25W	25W	30W			
Rated Input Voltage(V)	AC100-240V AC230V							
Input Voltage(V)	AC85-265V AC200-240V							
LED Module Input	-							
Light Source	SMD							
SDCM	<6 (@3000K 4000K 5000K)							
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	1150~1350	1700~2050	2400~2700	2580~3000	2980~3550	
		DIM	1140~1300	1650~2050	2250~2690	2450~2990	2880~3540	
	Non-DIM	3-CCT	1160~1350	-	-	-	-	
		DIM	1150~1330	1660~2050	2450~2600	2480~3000	3000~3550	
CRI	80							
Beam Angle (°)	120°							
UGR	-							
LED Driver	Built-in							
Dimming Option	Triac							
Sensor	-							
Emergency Kits	-							
Electrical Class	Class II							
Ingress Protection (IP Rating)	IP54							
Impact Resistance (IK Rating)	IK10							
Product Finishing(Base)	White RAL9016							
Materials of Optics	PC							
Materials of Housing	PC							
Lifetime (hr)	40,000h @ L70B50							
Glow wire test (°C)	750°C (Cover) 850°C (Lamp Base)							
Operating Temp. (°C)	-20°C ~45°C							
Storage Temp. (°C)	-20°C ~65°C							
Installation	Surface mounted							

Measurement

	Dimension(mm)				Product Weight (Kg)		Package weight		Carton Size (cm)		Qty/CTN	40HQ	
	A	B	C	D	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN	2600	600	(pcs)	(pcs)	
AL12B-10-12W	250	220	50	28.9	250*250*50	0.85	0.95	17	20.2	60*53.5*28.5	20PCS	6080	14400
AL12B-12-18W	300	270	40	14	300*300*40	0.96	1.09	9.6	11.8	53*32.5*33.5	10PCS	4320	10220
AL12B-12-25W	300	270	40	14	300*300*40	0.96	1.09	9.6	11.8	53*32.5*33.5	10PCS	4320	10220
AL12B-14-25W	350	320	41	28	350*350*41	1.24	1.44	12.4	15	53*37.5*38.5	10PCS	3720	7500
AL12B-16-30W	400	364	51	38	400*400*51	2	2.3	20	23.4	63.5*43*43	10PCS	2250	5400

Driver Datasheet (Non-dimmable)

Total load wattage		12W	18W	25W	30W
Output	Output Voltage range	DC60-80V	DC60-80V	DC60-75V	DC60-75V
	Rated output current	150mA	230mA	325mA	380mA
	Line Regulation	±5%			
	Setup, Rise Time	<1S			
	Flickering Index	-			
Input	Input Voltage	AC85-265V			
	Rated Input Voltage(V)	AC100-240V			
	Frequency	50/60Hz			
	Input Current	≤0.16A	≤0.24A	≤0.33A	≤0.4A
	Rated Input Current	≤0.14A	≤0.2A	≤0.28A	≤0.34A
	Power Factor	0.9			
	THD	-	<20% @230V		
	Efficiency	≥88%			
	No load wattage	<1W			
Protection	Short circuit protection	Pass			
	Over voltage protection	Pass			
	Over temperature protection	Pass			
Safety &EMC	Withstand voltage	-			
	Isolation Resistance	-			
	Surge	IEC61000-4-5(L-N:0.5KV, L/N-PE:1KV)		IEC61000-4-5(L-N:1KV, L/N-PE:2KV)	
	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	25W	30W
Output	Output Voltage range	DC65-75V	DC65-75V	DC65-75V	DC65-75V
	Rated output current	150mA	230mA	320mA	390mA
	Line Regulation	±5%			
	Setup, Rise Time	<1S			
	Flickering Index	-			
Input	Input Voltage	AC200-240V			
	Rated Input Voltage(V)	AC230V			
	Frequency	50Hz			
	Input Current	≤0.07A	≤0.1A	≤0.14A	≤0.17A
	Rated Input Current	0.06A	0.09A	0.13A	0.15A
	Power Factor	0.9			
	THD	-	<20% @230V		
	Efficiency	≥83%	≥83%	≥86%	≥86%
No load wattage	<1W				
Protection	Short circuit protection	Pass			
	Over voltage protection	Pass			
	Over temperature protection	Pass			
Safety & EMC	Withstand voltage	-			
	Isolation Resistance	-			
	Surge	IEC61000-4-5(L-N:0.5KV, L/N-PE:1KV)		IEC61000-4-5(L-N:1KV, L/N-PE:2KV)	
	EMC Emission	EN55015, EN61000-3-2			
EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547				

Installation Procedure

WARNING ⚡

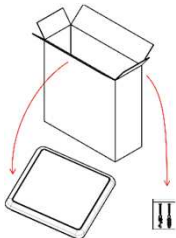
1. Switch off before installation / maintenance.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.

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



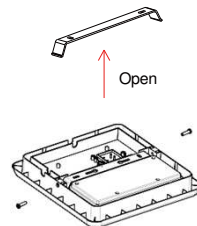
Surface mounted Installation

Step1



Take out ceiling light and accessory pack from box

Step2



Remove screw, take out bracket

Step3



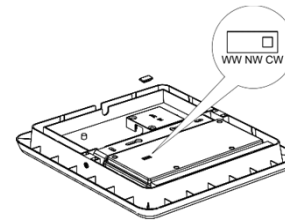
Knock-in the plastic anchor into ceiling

Step4



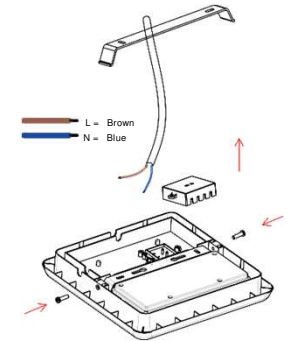
Fix bracket with screw into the ceiling

Step5



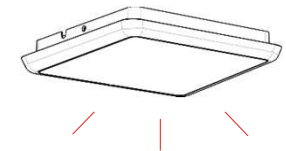
Choose the CCT by slide switch before installation.

Step6

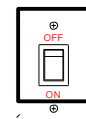


Open junction box, wire "L" "N" to terminal block and mount ceiling light into the right place

Step7



Switch on





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