

Technical Application Guide for UP–SHINE LED Linear UP-DB09-600-12W-S UP-DB09-600-12W-E

Introduction



DB09 LED Linear is mainly designed for Oceania and European market, 2835 high lumen SMD LED chip been used to achieve 105lm/W efficiency. IP54 waterproof structural design, ideal replacement for damp location. Elegant design with 3 types of installation: suspended, surface mounted and recessed, suitable for meeting room, office, school, hospital etc commercial lighting applications.

Microwave sensor provided, adjustable holdon time and sensitivity, maximally promote communications between human and environment. Emergency version available with more than 3 hours duration. This is our most practical item with extremely high performance.

- Aluminum components generate a rust-free product for less maintenance
- PC Diffuser
- Up to 70% energy saving compared to standard CFL
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- IP54 for indoor use only
- •The lamp must be installed by professional electrician
- Ensure the power supply is switched off before fitting this product
- •Do not touch the lamp when in use
- •Keep away from hot steam and corrosive gas

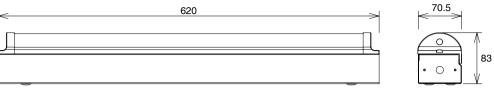
Application Areas

Widely used in office, meeting room, hotel, school etc.

Certificate

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Product Information



Emergency Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	ССТ	Lifespan	CRI	Dimmable	Dimension
UP-DB09-600-12W-E	AC230V	12W	≥0.9	1200	120°	3000K	40000h	≥80	No	L620*W70.5*H83mm
UP-DB09-600-12W-E	AC230V	12W	≥0.9	1260	120°	4000K	40000h	≥80	No	L620*W70.5*H83mm
UP-DB09-600-12W-E	AC230V	12W	≥0.9	1240	120°	5000K	40000h	≥80	No	L620*W70.5*H83mm
UP-DB09-600-12W-E	AC230V	12W	≥0.9	1220	120°	5700K	40000h	≥80	No	L620*W70.5*H83mm

Sensor Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	ССТ	Lifespan	CRI	Dimmable	Dimension
UP-DB09-600-12W-S	AC230V	12W	≥0.9	1200	120°	3000K	40000h	≥80	No	L620*W70.5*H83mm
UP-DB09-600-12W-S	AC230V	12W	≥0.9	1260	120°	4000K	40000h	≥80	No	L620*W70.5*H83mm
UP-DB09-600-12W-S	AC230V	12W	≥0.9	1240	120°	5000K	40000h	≥80	No	L620*W70.5*H83mm
UP-DB09-600-12W-S	AC230V	12W	≥0.9	1220	120°	5700K	40000h	≥80	No	L620*W70.5*H83mm

Driver data Sheet

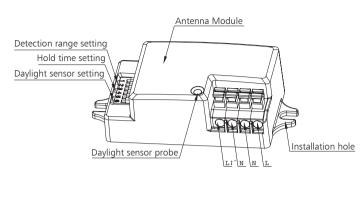
Driver data	Emergency	Main Power	Sensor
Input rated Voltage	AC230V	AC230V	AC230V
Frequency	50Hz	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V	AC200-240V
Efficiency	≥80%	≥85%	_
Total load Wattage	4W	12W±1W	≤0.5W(standby)
Power Factor	—	≥0.9	—
Rated input current	≤0.04A	≤0.16A	—
Full load output Voltage	DC15-80V	60-75V	
Rated output current	putput current 100-170mA		_
Output current range	tput current range —		
Power tolerance	4W±0.5W	±5%	
Current output tolerance	—	±5%	
Battery	7.2V 2600mAh	_	_
Lifetime	30000hrs(battery changeable)	—	_
Battery duration	ry duration ≥ 3hrs		
Charge time	≥ 24hrs	—	—
Emergency switching time	≦ 15		
Short circuit protection	—	PASS	
Over voltage protection	—	PASS	_
Over temperature protection	PASS	PASS	—
THD	—	<25% AC230V	—
Withstand voltage	AC1500V	AC1500V	—

Fixture Compatibility

Rated	Electrical	Ingress	Operating	Operating	Storage
Wattage	Classification	Protection	Temp	Humidity	Temp
12W	Ι	IP54	-20°C~45°C	0~90%	-20°C~65°C

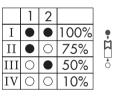
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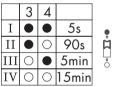
Sensor Setting

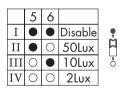


UC01	
Operating voltage	220~240Vac, 50Hz
Rated load	400W(inductive), 800W(resistive)
HF system	5.8GHz \pm 75MHz, ISM wave band
Transmitting power	<0.2mW
Power consumption	≤0.5W(standby)
Detection zone	Max.(D×H): 10m×6m
Detection sensitivity	10% / 50% / 75% / 100%
Hold time	5s / 90s / 5min / 15min
Daylight sensor	2lux / 10lux / 50lux / Disable
Mounting height	6m Max.
Motion detedtion	0.5~3m/s
Detection angle	30°-150°
Operating temperature	-20 ~60
IP rating	IP20

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.







Detection area

Detection area can be set by selecting the combination on the switches to fit precisely each application.

Hold time

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

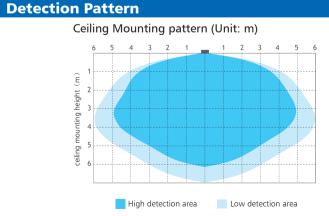
5S for testing purpose only please do not choose 5S for daily use.

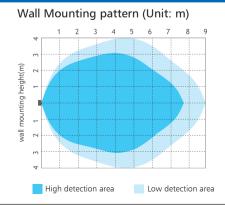
Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

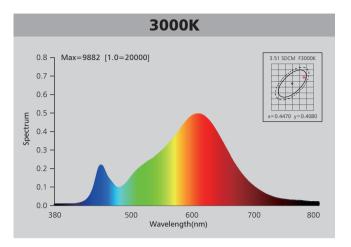
When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

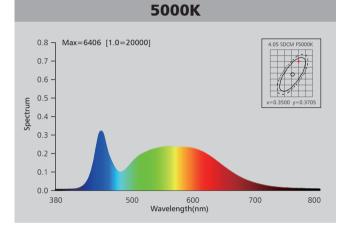
50lux: twilight operation, 10lux, 2lux: darkness operation only.



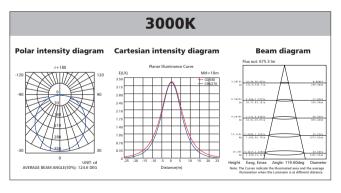


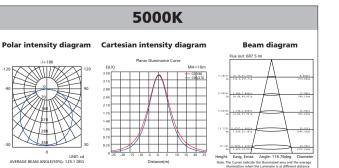
Spectral Distribution

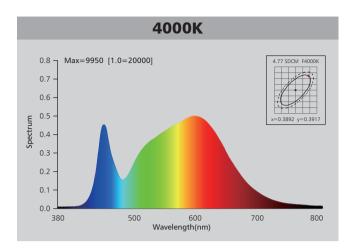




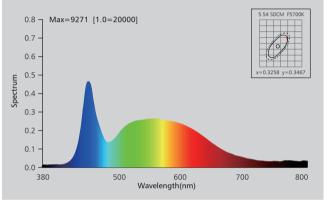
Photometric Diagram

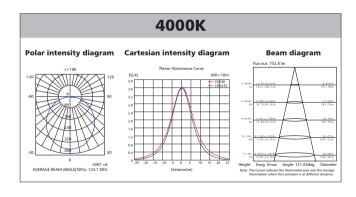






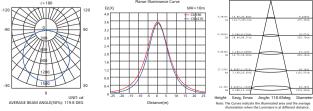






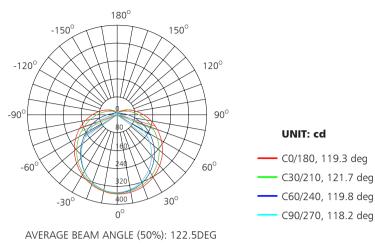


Polar intensity diagram Cartesian intensity diagram Beam diagram



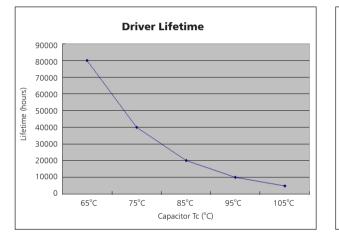
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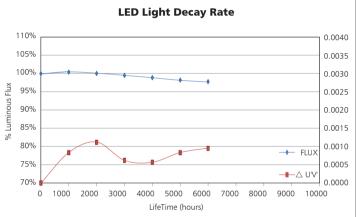
Polar Diagram Comparison





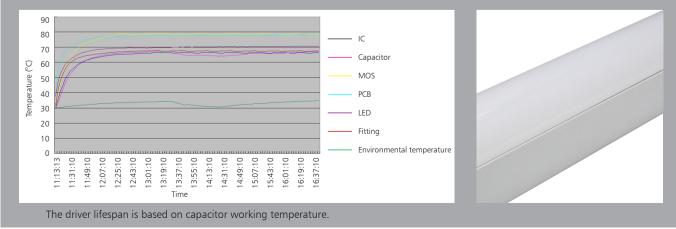
Driver lifetime & LED light decay rate



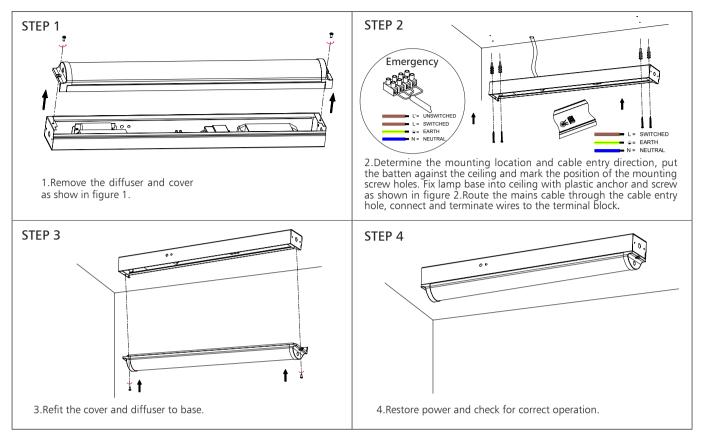


Temperature

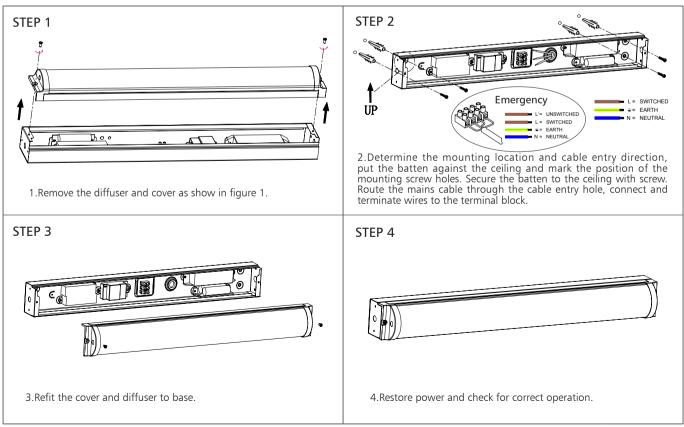
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



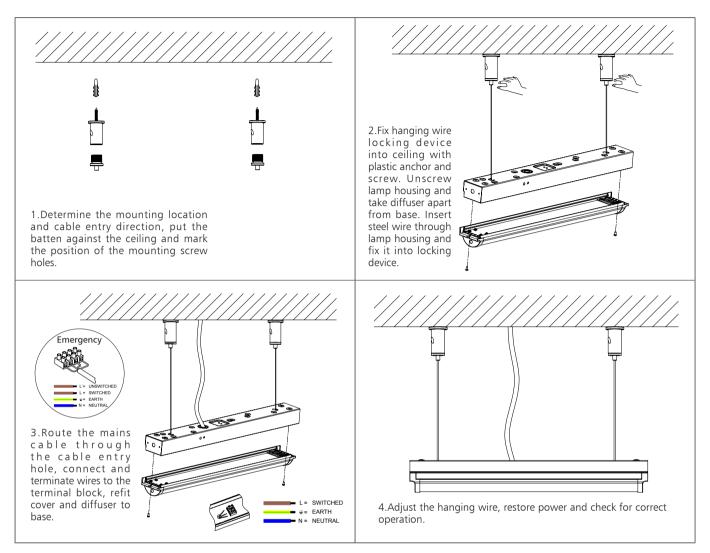
Surface mount



wall mount



Suspend install



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	65*36.5*33	1.5	20	12

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	352	4224	28
40" standard container	704	8448	56

