

OPERATING INSTRUCTION

LED EMERGENCY CEILING LAMP

GRAVITALED



EMERGENCY SELF-TESTING

LiFePO₄

MAVO

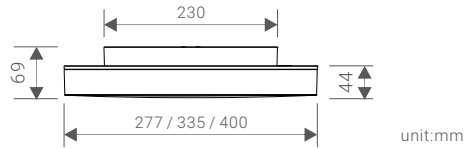
IP65

IK10



MAIN TECHNICAL DATA

Input: **AC 220-240V 50/60Hz**,
 Light source: **LED SMD2835**
 Mode of operation: **Maintained**
 Batteries: **LiFePO₄ 6.4V** Duration: **3h**
 Working temperature:
-25°C---+50°C (without emergency)
-10°C---+50°C (with emergency)



CAUTION

1. The product must be installed by professional technicians and power supply must be cut off before installation.
2. The installation wiring must be 2~5 x 1.0-2.5mm² at least and wired in accordance with the latest IEE electrical regulations or the national requirements.(Recommend type of cable is H03VV-F)
3. Cut the power supply before replacing batteries.
4. When the fitting is unable to maintain the 1 or 3 hour duration under battery operation or reach 500 charging cycles, then the batteries must be changed.
5. Contact an authorised technical service center for the replacement of batteries and use only original manufacturer spare parts for any other repairs.
6. Code for identification of battery Manufacture date: ex.07/2025— year2025,month07
7. The light source of this luminaire is not replaceable,when the light source reaches its end of life the whole luminaire shall be replaced.
8. Battery must be recharged if it has reached 6 months from the production date to the date of being commissioned, or it will reduce through-life performance and may lead to premature battery failure. Battery warranty claims, as a result of such abuse, are specifically EXCLUDED from warranty terms.
9. On many building sites, power circuits may be cut off in an uncontrolled and repetitive basis during construction. As a result, any Exit & Emergency Units, on these circuits, will have their batteries discharged or “cycled”. Excessive battery circling will reduce through-life performance and may lead to premature battery failure. Battery warranty claims, as a result of such abuse, are specifically EXCLUDED from warranty terms.

TECHNICAL INFORMATION

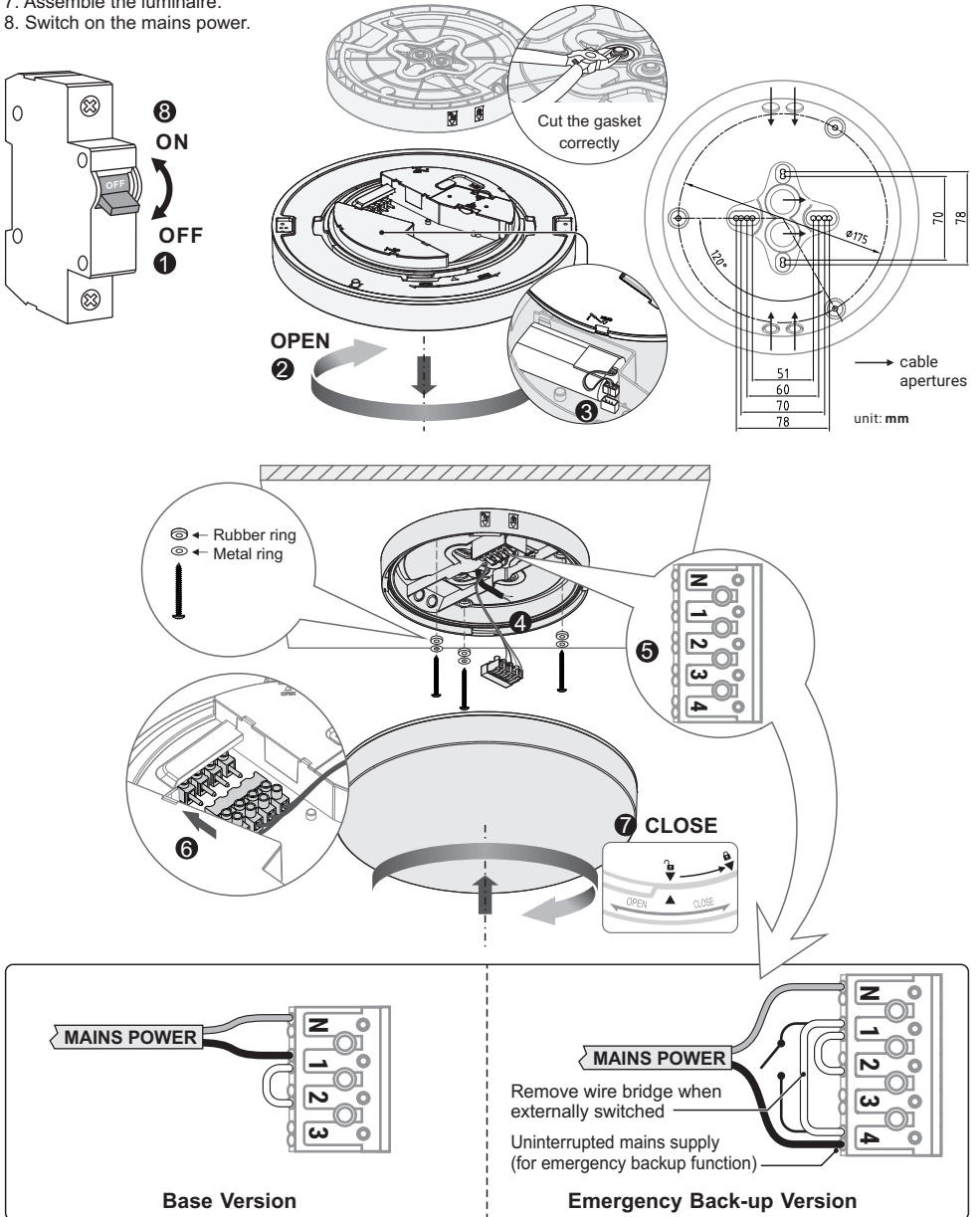
CODE	INPUT POWER	LUMEN*	DIMENSIONS
100(PFC-1000)	8.5 W	1000/500 Lm	Φ277x69 mm
250(PFC-2500)	20 W	2500/1700/1200/900 Lm	Φ335x69 mm

Parameter tolerance: ±10%

*@CCT: 4000K

MOUNTING

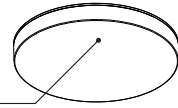
1. Ensure the mains power is switched off.
2. Disassemble the installation base.
3. Remove the cover of emergency pack compartment and connect the plug of battery onto emergency driver firmly, then fix the cover well.
4. Pull the power cable through the gasket on the back of installation base and fix the base on the mounting surface with screws.
5. Connect the power cable to the terminal block.
6. Plug in the female connector to the male connector.
7. Assemble the luminaire.
8. Switch on the mains power.



SELF TESTING

1. **Green light on:** Mains power supply on & battery system normal.
2. **Red light on(flashing):** Test failed.
3. **Amber light on:** Test in progress.

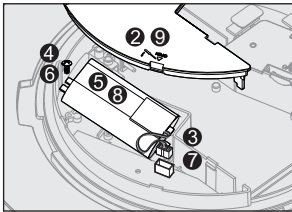
Indicator



	TESTS	BATTERY STATUS UNDER TEST	STARTING TIME	TEST DURATION	TEST FREQUENCY	RESULT	INDICATOR STATUS
1	EMERGENCY DRIVER /BATTERY/LOADING	CHARGING	FIRST CONNECTION TO MAINS POWER	REAL-TIMELY	NON-STOP	NORMAL	GREEN LIGHT
						FAILED	RED LIGHT 
2	RATED DURATION TIME	DIS-CHARGING	30DAYS AFTER FIRST CONNECTION TO MAINS POWER	RATED DURATION TIME (1h/1.5h/3h)	ONCE PER YEAR	NORMAL	GREEN LIGHT ON
						FAILED	RED LIGHT 
						TEST IN PROGRESS	AMBER LIGHT
Remarks: If a mains supply failure occurs up to 24hrs before a programmed rated duration test, the test shall be postponed and rescheduled for up to 7days after restoration of the mains supply.							
3	EMERGENCY FUNCTION	DIS-CHARGING	60DAYS AFTER FIRST CONNECTION TO MAINS POWER	1 min.	ONCE PER MONTH	NORMAL	GREEN LIGHT
						FAILED	RED LIGHT 
						TEST IN PROGRESS	AMBER LIGHT
Remarks: If a mains supply failure occurs up to 4hrs before a programmed functional test, the test shall be postponed and rescheduled for up to 10hrs after restoration of the mains supply.							

	FAILED DETAIL	INDICATOR STATUS	FLASH FREQUENCY
	EMERGENCY DRIVER	Red light on(quick flashing)	Flash once every second
	BATTERY	Red light on(slow flashing)	Flash once every three seconds
	LOADING	Red light on	---

HOW TO REPLACE BATTERY



1. Cut off the power supply.
2. Open the cover.
3. Pull out the plug of battery from the emergency driver.
4. Remove the screw.
5. Remove the old battery.
6. Fix the new battery by screw.
7. Connect the plug onto the emergency driver.
8. Record the commissioning data of the battery .
9. Close the cover firmly.

SELECTABLE BRIGHTNESS

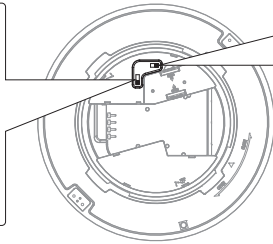
Different brightness settings by DIP switches.

Φ277	500 LM 1000 LM	
Φ335	900 LM 1200 LM 1700 LM 2500 LM	Φ400
	1400 LM 2000 LM 3000 LM 4000 LM	

SELECTABLE COLOUR TEMPERATURE

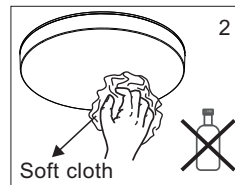
Different colour temperature settings by DIP switches.

2700 K 3000 K 4000 K	
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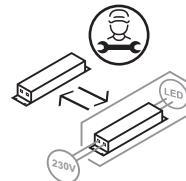


MAINTENANCE

1. Cut off the mains power first.
2. Don't use chemical reagent to clean lamp.



Non-replaceable Light Source



Replaceable control gear by a professional

This product contains a light source of energy efficiency class **E**

Please note, the control gear in this product is not intended to operate in no-load mode

Environmental protection: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

