

OPERATING INSTRUCTION

LED EMERGENCY CEILING LAMP

GRAVITALED



EMERGENCY SELF-TESTING

LiFePO₄

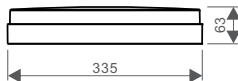
CIRRO

IP44



MAIN TECHNICAL DATA

Input: **AC 220-240V 50/60Hz**
 Light source: **LED SMD2835**
 Batteries: **LiFePO4** Duration: **3h**
 Working temperature:
-25°C---+50°C (without emergency)
0°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 2~4 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 3 hour duration under battery operation, 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.07/2020— year2020,month07
7. The light source of this luminaire is replaceable, and it must be operated by professional technicians when power supply is cut off in advance.
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

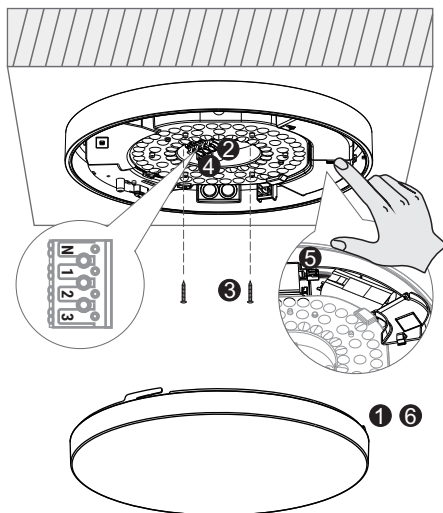
CODE	INPUT POWER	LUMEN *	DURATION	BATTERY
700(USCM-2300)	21.5 W	2300/1500/1000/700 Lm	—	—

*Black housing lumen output is 10% lower

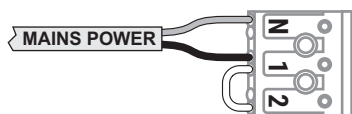
Parameter tolerance: ±10%
CCT: 4000K

MOUNTING

1. Disassemble the diffuser .
2. Pull in the power cord through the gasket.
3. Fix the fixture on the surface with screws .
4. Connect the power cord on the terminal correctly.
5. Open the cover and connect the plug of battery onto the emergency driver firmly, close the cover. ⚠
6. Assemble the diffuser.



Cable connection



Base Version

Remove wire bridge when externally switched

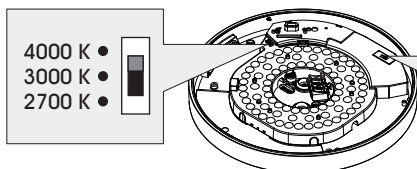
Uninterrupted mains supply (for emergency backup function)



Emergency Back-up Version

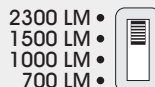
SELECTABLE COLOUR TEMPERATURE

Different colour temperature settings by DIP switches on the LED plates.



SELECTABLE BRIGHTNESS

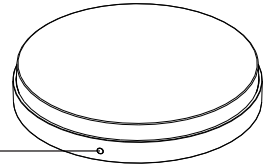
Different brightness settings by DIP switches on the driver.



*Black housing lumen output is 10% lower

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.

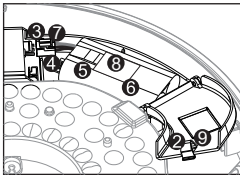


Indicator ←

	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	---

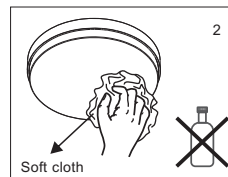
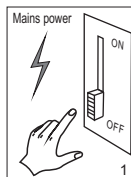
HOW TO REPLACE BATTERY



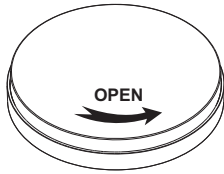
1. Cut off the power supply.
2. Open the cover.
3. Pull out the plug of battery from the emergency driver.
4. Screw out the nut.
5. Remove the old battery.
6. Fix the new battery by screwing nut.
7. Connect the plug onto the emergency driver.
8. Record the commissioning data of the battery .
9. Close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

MAINTENANCE

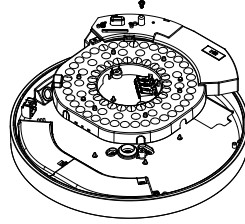
1. Cut off the mains power first.
2. Don't use chemical reagent to clean lamp.



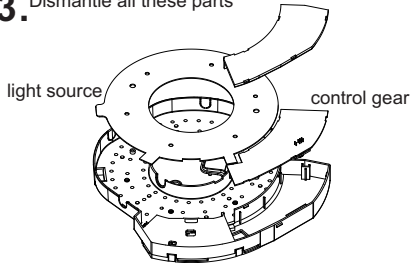
1. Open the diffuser



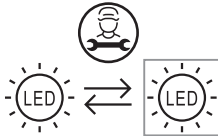
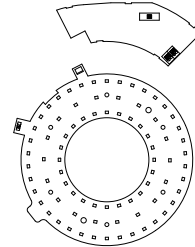
2. Remove the base



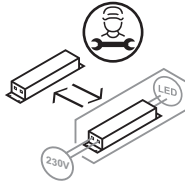
3. Dismantle all these parts



4. The control gear and the light source



Replaceable (LED only) light source by a professional



Replaceable control gear by a professional

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

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.

