



# INSTALLATION AND OPERATING INSTRUCTIONS FOR LED EMERGENCY LUMINAIRE

MODEL NO.:EMS1



## CAUTIONS

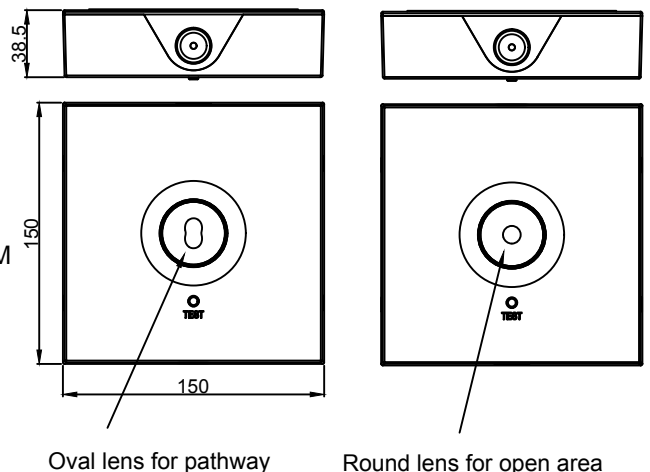
This product should be installed by a registered electrician in accordance with local standards and electrical regulations. Take care to ensure the mains supply is isolated before installation. Check the unit label for correct supply voltage and frequency. Replace the battery when the battery no longer meets its rated duration of operation (see the label of battery replacing) .

## GENERAL INFORMATION

LED emergency light, have self-contained lighting, for pathway and open area used optional.  
LED light source provides low power consumption and long life.  
Enclosure is made by polycarbonate, surface mounting.

## TECHNICAL DATA

Input voltage:	220-240VAC, 50/60Hz
Charge time:	24H
Emergency Duration:	1 or 3 Hours
Power consumption:	refer model list
Test facility:	Manual test, Auto test
Source:	SMD LED
Color temperature:	CCT 5000K
Operation:	Non-maintained default, can change to ACEM
Lumen output :	Refer model list
Battery:	LiFePO <sub>4</sub> Battery
Mounting:	Surface mounting
IP rating:	IP40
Ta:	0°C-40°C



## SERVICE & OPERATION

### Normal Operation:

If AC supply is normal, fixture on the charging mode, LED indicator stay on green color, if press the test switch or AC supply failure, LED indicator will go out and the fixture turn to discharge mode.

### Battery:

Sealed LiFePO<sub>4</sub> rechargeable battery pack. Batteries of a different type must not be used. Batterys should be replaced by authorised service personnel only. If the unit no longer maintains its rated battery backup test times. Should only be replaced with same brand and type.

Battery have to recharge if product keep in stock over 12 months, detail manual refer "BATTERY STOCK AND RECHARGE GUIDELINE".

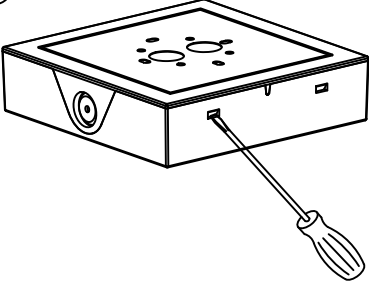
## SPECIFICATION

Model Number	Input Voltage	Charge Duration	Discharge Duration	Operation	Battery	Power Consumption	Lumen output
EMS1/W/1H/MT/LFP EMS1/W/1H/AT/LFP	220-240VAC	24h	1 h	Non-maintained default	LiFePO <sub>4</sub> ,6.4V600mAh	1.5W	260lm
EMS1/N/1H/MT/LFP EMS1/N/1H/AT/LFP							240lm
EMS1/W/3H/MT/LFP EMS1/W/3H/AT/LFP	220-240VAC	24h	3 h	Non-maintained default	LiFePO <sub>4</sub> ,6.4V1500mAh	2.5W	260lm
EMS1/N/3H/MT/LFP EMS1/N/3H/AT/LFP							240lm

INSTALLATION AND OPERATING INSTRUCTIONS

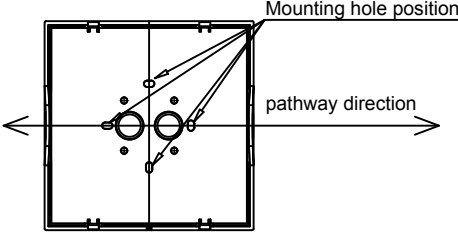
SURFACE MOUNTING INSTRUCTION

①



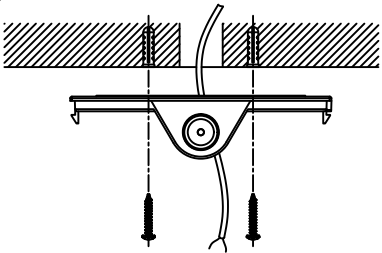
Use flat blade screwdriver insert the two slots and pry off front cover from back plate

②



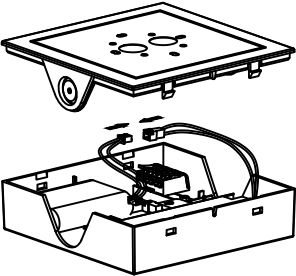
If the unit use oval lens for pathway, need drill 2 mounting hole on correct position as above.

③



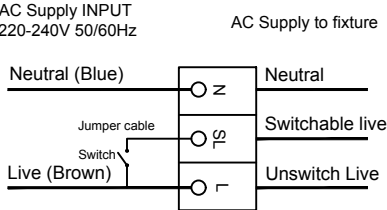
Install surface mounting kit on the ceiling surface by screw, feed AC supply wire in mounting kit.

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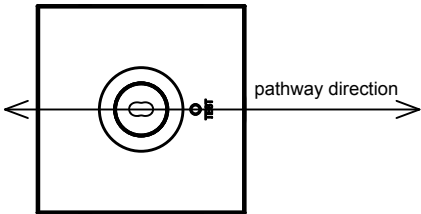
Attach battery connector on PCBA  
Make AC power supply wiring, brown wire connect L, blue wire connect neutral.

⑤



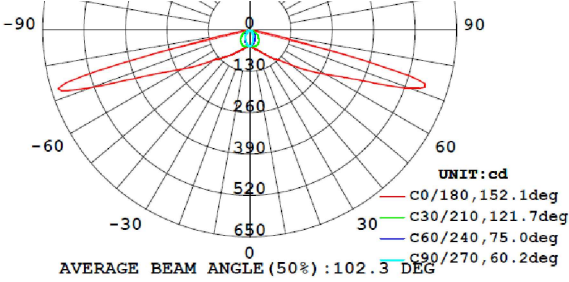
Default setting is non-maintained, if need switchable maintained (ACEM) operation, need add a jumper cable with switch connector L and SL.

⑥



PHOTOMETRIC DATA

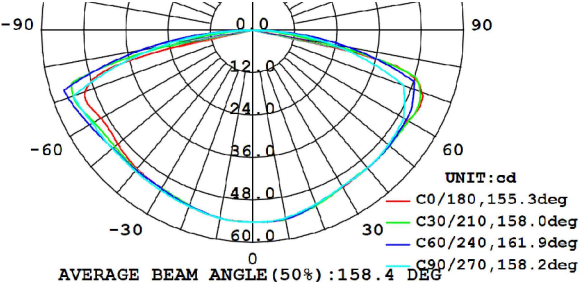
Oval lens for pathway application



Mounting height			
2.5m	9.6m	24m	9.6m
3.0m	10.4m	26m	10.4m
3.5m	11.2m	28m	11.2m
4.0m	12.0m	30m	12.0m

Compliant EUROPE standard EN1838 Illuminance requirement:  
Escape route up to 2 m wide, 1 lx on the central axis  
and 0.5 lx at 50% of the width.

Round lens for open area application



Mounting height				
2.5m	5.6m	14m	14m	5.6m
3.0m	6.0m	15m	15m	6.0m
3.5m	6.4m	16m	16m	6.4m
4.0m	6.8m	17m	17m	6.8m

Compliant EUROPE standard EN1838 Illuminance requirement:  
Escape route up to 2 m wide, 1 lx on the central axis  
and 0.5 lx at 50% of the width.