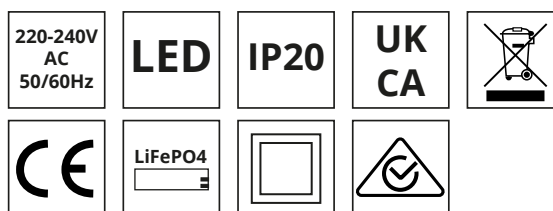


LED emergency EMD2W-2H



- Supply voltage: 220-240VAC 50/60Hz
- Insulation class: II
- Ingress protection: IP20
- Battery recharge time: 16h (EU)
- Max battery temperature: 60°C
- Ambient temperature: 0-45°C
- Charge indicator: Green LED
- Deep discharge protection DDP
- Assembly indoors to flat surface
- Non-maintained operation
- The lamp holder shall not be replaced



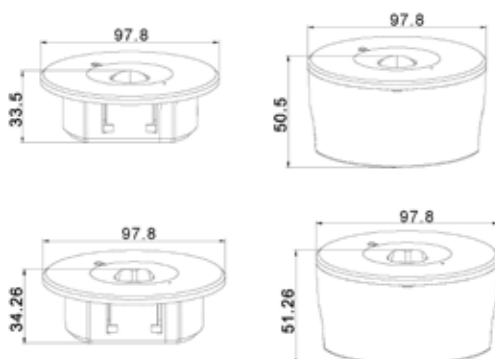
Battery discharge and LED output specifications

Item code	Battery discharge voltage Min-Typ-Max	Battery discharge current Min-Typ-Max	Battery discharge power Min-Typ-Max	Output voltage Min-Typ-Max	Output current Min-Typ-Max	Output power Min-Typ-Max
EMD2W-2H	2.7-3.2-3.65V	450-500-530mA	1.2-1.4-1.6W	2.6-2.7-2.8Vdc	450-500-520mA	1.1-1.3-1.5W

Item code	Batteries	EM Power	EM duration	Mode	Fixture Luminous flux	Charge current	Charge time	Classification
105431 EMD2W-2H	3.2.V 1500mAh LiFePO4	1.6W	2H	Open	200lm±10%	135mA	16h	D40
				Corridor	160lm±10%			

Mechanical Outline

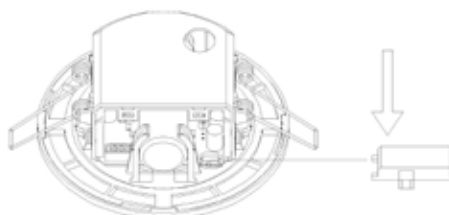
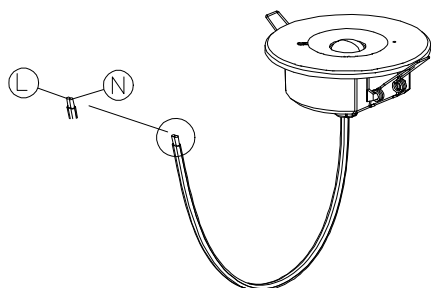
unit: mm



Technical data

Rated supply voltage	220-240VAC
Mains frequency	50/60Hz
Mains input current, max	20mA
Input power in mains operation, max	2W
Power factor	≥0.4
Battery charge time	16h
Ambient temperature t_a	0-45°C
IP rating	IP20
In rush current	1.5A
Mains surge capability (between L - N)	500V
Mains voltage changeover treshold	140-180VAC

Wiring diagram



Function switching mode:
Step 1: Switch the product mode through the dial switch shown by the arrow.
Step 2: Turn to to the left and switch the product mode to standard.
Step 3: Turn to the right and switch the product mode to self-test.
Note:
The self-test product can switch functions through the dial switch, which is not available for the standard model.

Mounting options

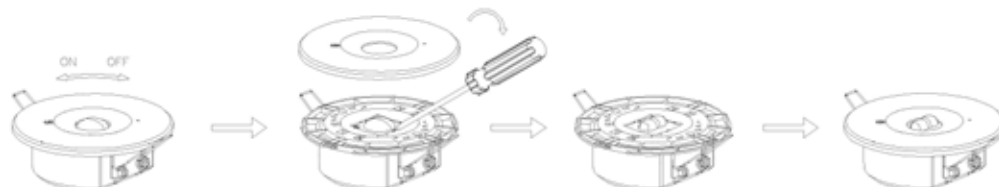
Replace the lens:

Step 1: Turn the upper cover counterclockwise to open the upper cover.

Step 2: Use a tool to pry out the lens.

Step 3: Replace different lenses.

Step 4: Replace the upper cover and rotate it clockwise to fix it.

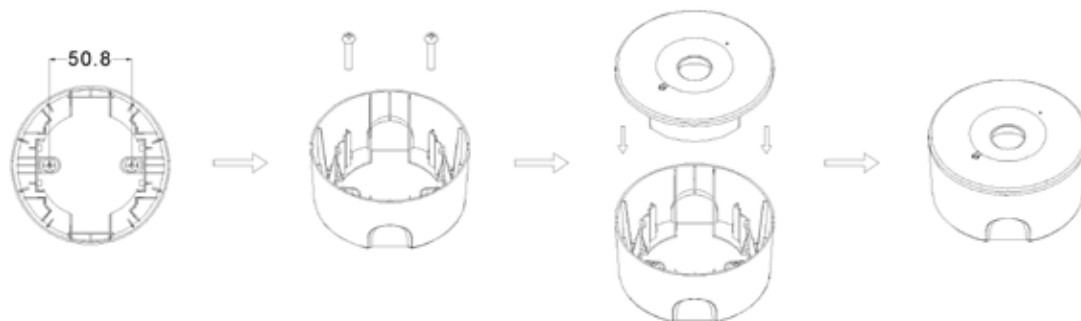


Battery replacement steps:

Step 1: Open the side cover upward and remove it in the direction indicated by the arrow.

Step 2: Replace the old battery with a new one.

Step 3: Cover the side cover to complete battery replacement.

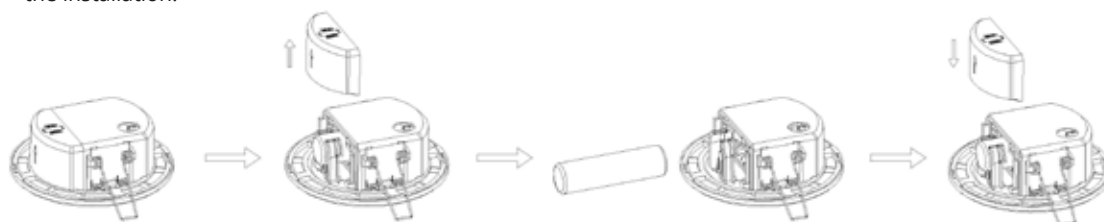


Surface mounted product installation:

Step 1: Reserve installation holes on the wall according to the distance shown in the figure.

Step 2: Screw in the screws to fix the surface mounted fittings on the wall.

Step 3: After wiring the lamp, insert it into the surface mounted accessory in the direction indicated by the arrow to complete the installation.

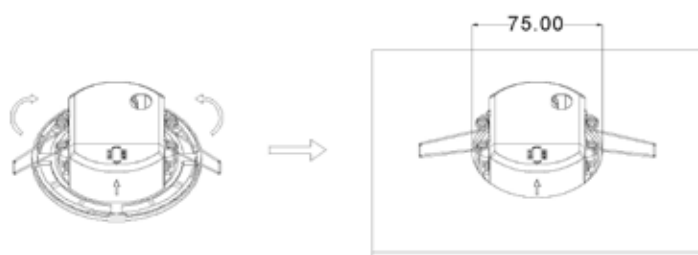


Embedded product installation:

Step 1: Aperture for recessed mounting: $\varnothing 75 - \varnothing 90$ mm.

Step 2: Press the springs on both sides of the product as shown in the image below.

Step 3: Insert into the hole of embedded installation to complete the installation.



Mounting accessories

Item code	Surface mounted accessories
105432	



Testing / Commissioning (self test)

Functionality of the test switch

- 1) A short press (>1s) on the button start a function test lasting 5 seconds (The battery's capacity should be more than 5%=charging 30mins)
- 2) Holding down the button(>10s) resets the timer(System-resets)

Functional test

The 5 second long, each 7 days' function test serves to check the functionality of the emergency unit, the batteries and LED module.

Notice.

If a mains supply failure occurs while a functional test is in progress, the test shall be postponed and the system shall enter emergency operation. Following restoration of the mains supply, a postponed functional test shall re-commence automatically as soon as conditions permit.

Duration test

First time test: After AC mains power input for 24 hours, enter the 3-hour duration test.

Half year duration test: Conduct 3-hour duration test every 180-182 days to check the battery capacity.

Indicator LED system status is locally by a bi-color indicator LED

LED indication	Status	Description
Permanent Green	Standby, System ok	Mains operation, battery is charged
Fast flashing Green (0.25s on 0.25s off)	Function test underway	Function test underway
Slow flashing Green (1s on 1s off)	Duration test underway	Duration test underway
Permanent Red	Lamp failure	Open circuit or short circuit or LED failure
Fast flashing Red (0.25s on 0.25s off)	Battery capacity failure	Battery failed duration test
Slow flashing Red (1s on 1s off)	Battery fault	Incorrect battery voltage or short circuit or open circuit
Green and Red off	Battery operation	Emergency mode: Mains disconnected or mains failure

NOTICE

Fault status:

If an error is detected, the indicator LED switches to RED. If the error has been corrected please re-connecting the battery after the mains power off, the indicator LED immediately switches back to GREEN when mains power on.

NOTICE

Battery failed duration test:

After an exchange of the battery and holding down the button (>10S) reset the timer, the indicator LED switches to GREEN

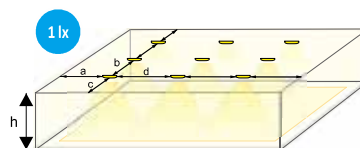
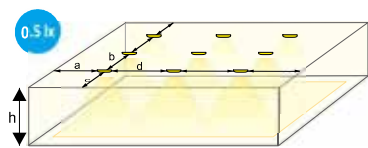
NOTICE

Before power on, self-test and standard function can be switched through dial switch.

When it is detected that the battery capacity is insufficient, power off and unplug the battery and power on again, which can be reset.

The BS and ST function can be switched through the dial switch only after the power is completely cut off. When switching from BS to ST or ST to BS, the program will refresh automatically

Photometric



Unit: cd
— C0-C180 — C90-C270

Unit: cd
— C0-C180 — C90-C270

GLOP-NN2W

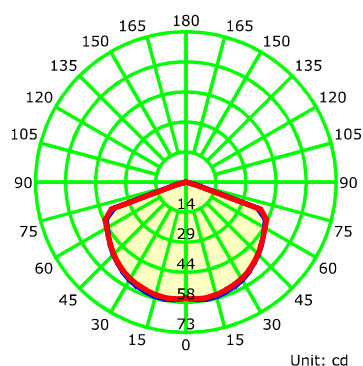
Open Area | 200lm | 0.5/1lux

Height(m)	↔ (a)	↔ (b)
2.5	5.4/4.2	13.5/10.9
2.8	5.6/4.2	14.3/11.2
3	5.7/4.3	14.6/11.4
4	6/4.3	15.9/11.9
6	5.9/3.4	16.9/11.9
8	5.2/0	16.9/10.3
10	3/0	15.9/6
12	/	14.4/0
15	/	3.8/0

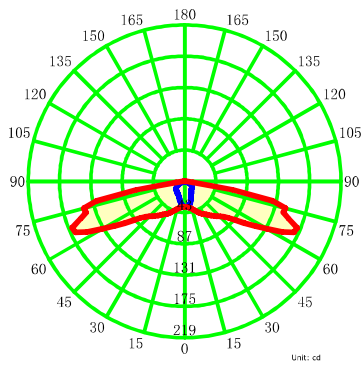
GLOP-NN2W

Corridor | 160lm | 0.5/1lux

↔ (a)	↔ (c)	↔ (b)	↔ (d)
8.6/6.9	3.3/2.3	8.4/6.5	21.3/17.3
9/7.2	3.3/2.3	8.7/6.6	22.4/17.9
9.2/7.3	3.3/2.2	8.9/6.6	23.1/18.4
10.2/7.2	3.2/1.9	9.4/6.4	25.5/20.4
9.6/0	2.5/0	8.8/5	29.6/19.1
/	/	7.6/2.6	19.2/10.8
/	/	6.1/0	19.4/0
/	/	1.2/0	12/0
/	/	/	/



Unit: cd
— C0-C180 — C90-C270



Unit: cd
— C0-C180 — C90-C270

Standard

This product meets the following standards:

- EN IEC60598-1
- EN IEC61347-2-7
- EN61000-3-2
- EN 61547
- ROHS 2.0
- EN IEC60598-2-22
- EN IEC61347-2-13
- EN61000-3-3
- EN 55015

Battery

- High-temperature grade battery cells
- 3.2V LiFePO4 battery
- Male/female socket for simple connection

Case temperature range to ensure maximum design life	0°C to +60°C
Battery voltage	3.2.V per cell
Capacity 18650	1500mAh

- The minimum charging environment temperature of the battery is 5°C , to ensure that the battery can be charged to the nominal capacity.
- Batteries should be stored within the specified temperature range in low humidity conditions.
- Optimal storage conditions are:
 - Temperature: -20 to +40°C
 - Humidity: 45% - 85%
- Avoid atmosphere with corrosive gas.
- It is recommended to disconnect the battery before storage or delivery.
- Battery should be charged every three months in order to keep it's initial performance.

Service life

Average life-time 50,000 hours under rated conditions with a failure rate of less than 10% for the emergency converter as rated power. Average failure rate of 0.2% per 1000 operating hours.

Important

The drawing in the fitting may vary to the actual product, connect as per label on fitting. When fitting a flush fitting, refer to installation instruction, including any ceiling manufacturer's instructions. It is recommended that the unit is installed by a competent person ensuring the installation complies with the necessary standards.

The company accept no responsibility for incorrect installation, incorrect operation or improper maintenance.