

IP65 Evacuation sign

Data Sheet

For Series: OT-ES8119_Li/LF ST/RST



OTC IND CO., LTD

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Dear partners,

* Thanks for Choosing OTC LED emergency products for your projects.

OTC always pursue high quality, steady quality products, competitive price and one-stop customer service, and offer enjoyable installation experience.

* All the OTC emergency lamp with 3 years quality guarantee (Battery 2 years) . If any doubts/ questions, please contact OTC project support team directly by email support@otcind.net . You will get solutions in 7~24 hours rapidly.

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1 Security related information

- Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring regulations and taking into consideration the latest building regulations.
- Ensure that all electrical connections are tight with no loose strands, including factory made connections.
- Ensure there is adequate free air circulation of at least 100mm around the luminaire. It is the installer's responsibility to consider fire risk and take appropriate precautions.
- A separate enclosure may be required if this unit is to be used in dusty and wet environments.

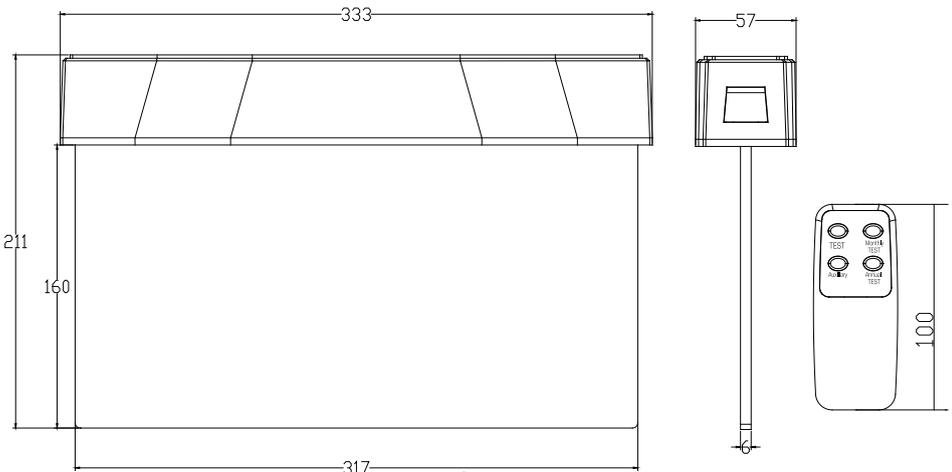
Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.

2 Packing list

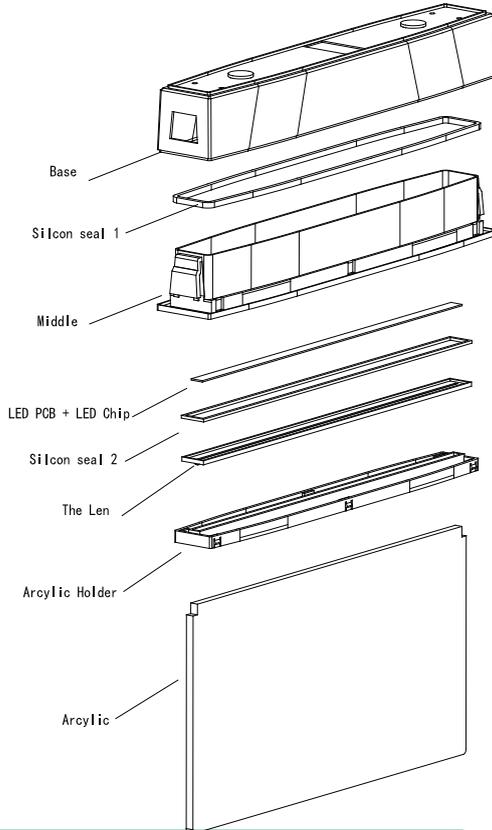


3 Basic Parameters

Model	Art Nr. OT-ES8119 LF ES8119-RST
Material	Polycarbonate + PMMA
LED Chips	36pcs SMD 4014
Color Rendering Index	>80
Degree of protection	IP65
Input Voltage	AC200-240V 50/60HZ
Emergency mode	Maintained & non-maintained
Input power	4.0 W if maintained / 1.5 W if non-maintained <i>With super high efficiency driver. Input 4.0W but very bright.</i>
Power factor	>0.5
Emergency changeover	<0.5S
LED lifespan	50,000 hrs
Guarantee	3 years (Battery 2 years)
Emergency Standard	60598-2-22:2021
Legend stanrdard	ISO7010:2019
The Photonetic	ISO 3864-4:2011 / EN 1838-2013
Emergency Pack	LiFePO ₄ 3.2V 3.0Ah
Emergency time	3 Hours
Test	self + manual remote test
Charging indicator (C)	Green
Faulty indicator (F)	Red
Charging details	150mA, Full charged in 24 hours
Disharging details	600mA, 3 hours emergency time
Luminous Flux(Mains)	300LM
Luminous Flux(EM)	250LM



4 General construction



4# . Rest mode & storage

4#.1 This luminaire combined rest mode.

When the AC supply failure / cut off. The EM LED on.

- If the battery over discharged, The luminaire will changeover rest mode automatically.
- You can Press the “Auxiliary” on controller for 4 seconds. the exit light also will changeover rest mode.

4#.2 Storage & transportation

- Make sure the luminaire in rest mode
- Keep the storage temperature 0~30°C
- Keep away from inflammables; keep dry & ventilation.

5 Self / remote test system

Too be IP65 compliant, OT-ES9119 chose wireless RF test, Instead of tradiational machinery test button.

5.1 Testing (If no failure)

5.1.1. Manual function test.

Press “TEST” switch on controller.

- a) The ② Charging indicator OFF
- b) The Emergency function ON.
- c) The mains will be cut off.

5.1.2 Monthly test.

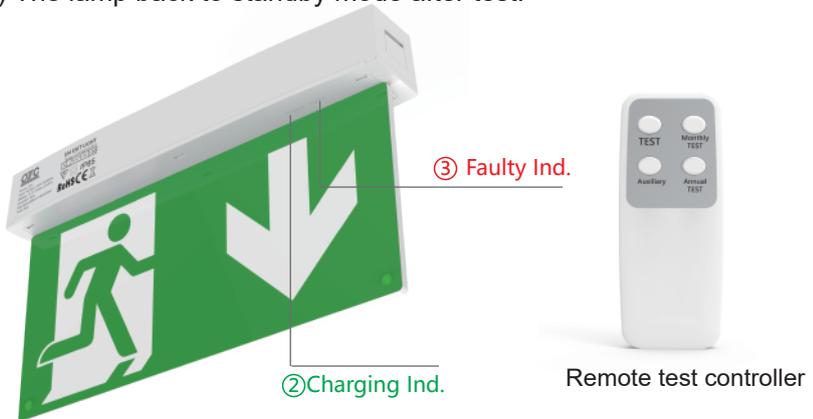
Press the “Monthly TEST” switch on controller or the lamp installed every 30 days.

- a) The ② Charging indicator will flash in 1Hz for 128S
- b) The Emergency function ON.
- c) The mains will be cut off.
- d) The lamp back to standby mode after test.

5.1.3 Annual test.

Press the “Annual TEST” switch on controller or the lamp installed every 180 days.

- a) The ② Charging indicator will flash in 2Hz.
- b) The charging will be cut off and emergency during test start.
- c) The lamp back to standby mode after test.



5.2 Testing (If any failure)

- 5.2.1 Battery failure:  Monitored constantly. The ③ faulty indicator will flash in 1 Hz if the battery failure any time.
- 5.2.2 LED load failure:  If press test button, or the luminary self-monthly test. The ③ faulty indicator will flash in 2 Hz if LED load failure.
- 5.2.3 Duration failure:  Only in Annual self-test. The ③ faulty indicator will turn on constantly if the Battery can not last 3 hours

6 Emergency control logic

The emergency function control logic

Operation	Charging indicator		Faulty Indicator (RED)		Emergency LED		Emergency LED	
	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S
Time line (Second)								
Normal charging			OFF		Constantly on		OFF	
Normal full charged	Constantly on		OFF		Constantly on		OFF	
Normal AC Failure	OFF		OFF		Constantly on		Constantly on	
Manual test	OFF		OFF		Constantly on		Constantly on	
Monthly self-test			OFF		Constantly on		Constantly on	
Annual self-test					OFF		Constantly on	
Battery circuit failure	OFF				Constantly on		OFF	
Light source failure	Constantly on						OFF	OFF
Duration test failure	Constantly on		Constantly on		Constantly on		OFF	



Before



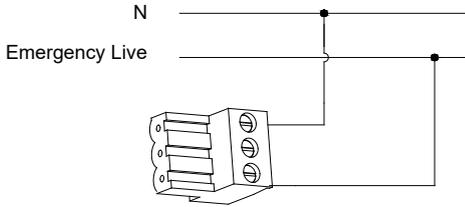
After

No Key switch, No Harry, No ladders
Safe / Easy / Convenient

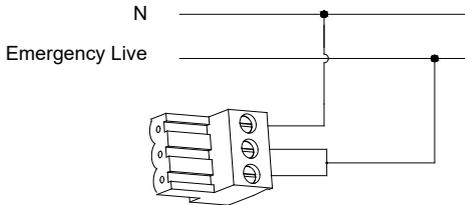
7 Emergency function & Wiring

ADDITIONAL INFORMATION - COMPONENT REPLACEMENT

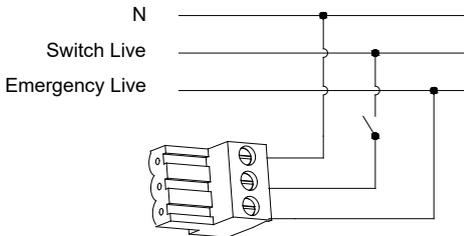
- The luminaire contains no user replaceable components other than the battery pack contained in emergency versions.
- The battery has a 4 year service life provided it is operated and maintained by regular testing, as detailed in this Usermanual. Failure to maintain or change the battery may result in reduced duration in emergency mode.



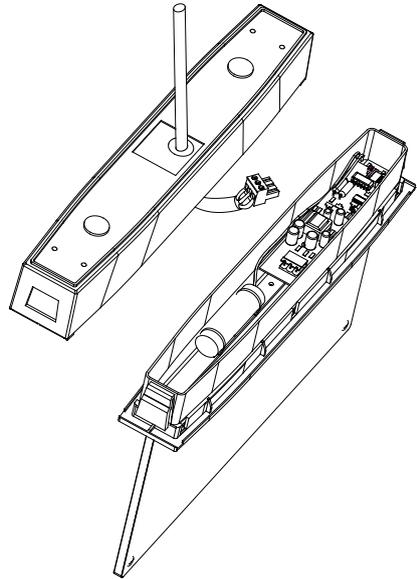
Wiring 1: Non-maintained Mode



Wiring 2: Maintained Mode



Wiring 3: Switch- Maintained Mode



Chose the right wiring
To set maintained or non-maitained
mode .

8 Installation guide



Caution

1. All OTC emergency lights are designed for projects. Only qualified electrician can install or maintain it.
2. The mains have to be off during the installation or maintenance.
3. Keep the product far from heat sources and in a well ventilated area.



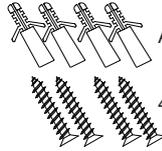
Installation pack



Wall mounting accessories
4*8 Type B screws *4



Hanging mounting Accessory *2



Alligator Anchor *4

4*30 screws *4

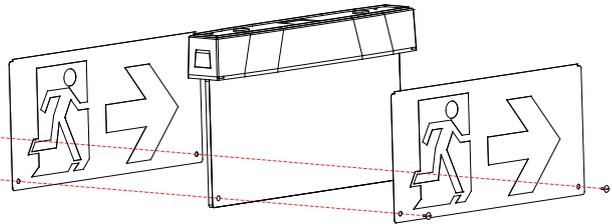
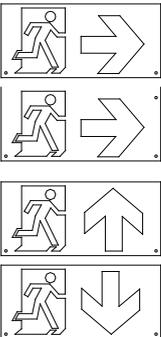


Silicon washer *4



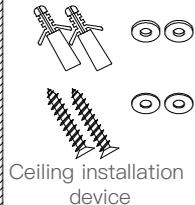
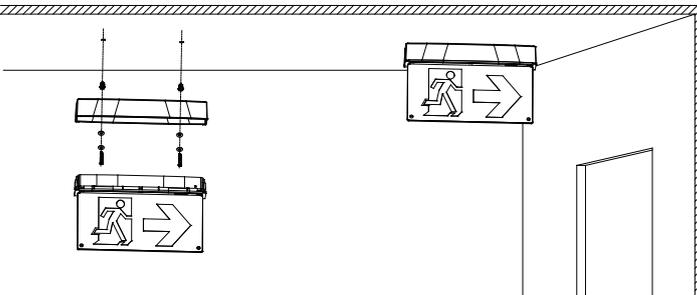
Aluminium Washer *4

Install the PVC Legend



- 1) Chose the right PVC legend.
- 2) Install the legend by clips.

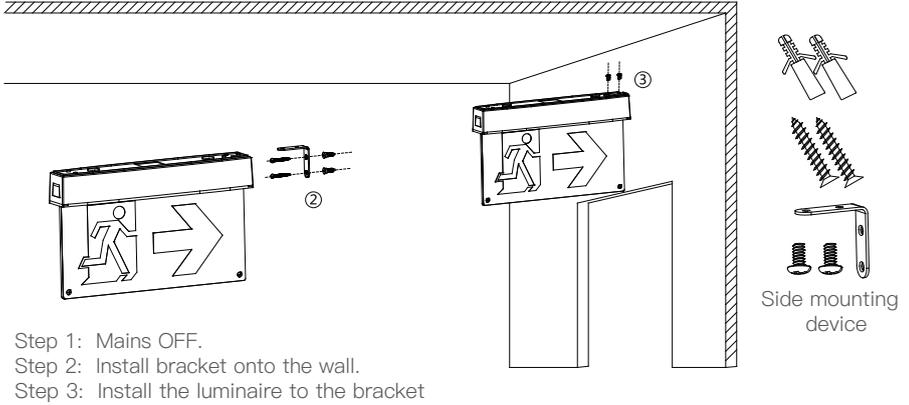
Installation 1: Ceiling mounting



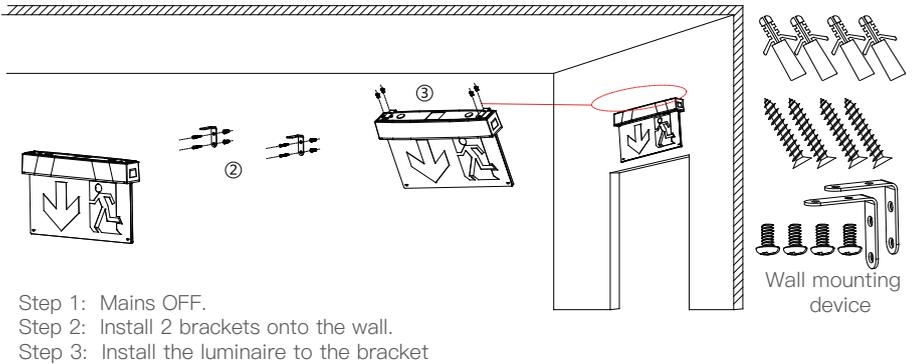
Ceiling installation device

- Step 1: Mains OFF.
- Step 2: Install the base on to the ceiling by 2 pieces 4*30 screws, 2 pcs silicon rings, 2 washers.
- Step 3: Wiring The cable and testing according Page 7
- Step 4: Fix the sign on the ceiling
- Step 5: Mains ON

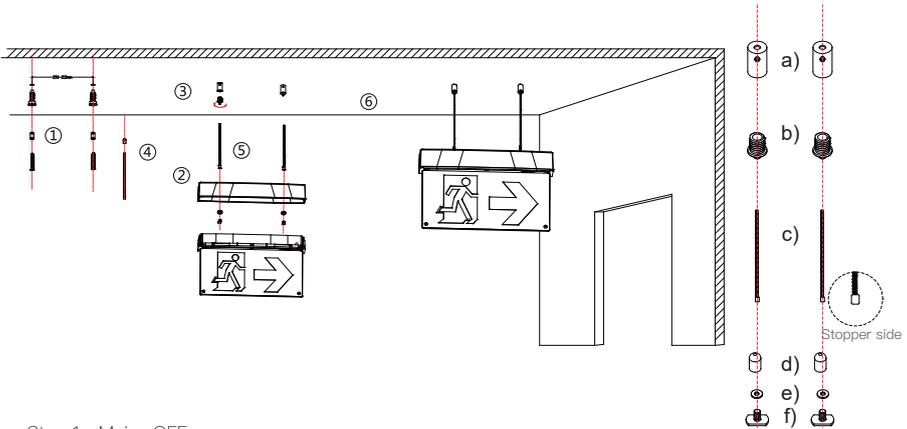
Installation 2: Side wall mounting



Installation 3: Wall mounting



Installation 4: Hanging



Step 1: Mains OFF.

Step 2: Install the evacuation sign

- ① Install the a) by screws, distance 180–200mm recommend.
- ② Install e) f) into the base of sign.
- ③ Install b) into a) by screwing.
- ④ Incert the c) string into d) from no stopper side.
- ⑤ Install c)+d) on to e) according the drawing by screwing.
- ⑥ Incert the string into b) set the length accroding Pic8.1.

Step 3: Wiring and testing accoring Page 7

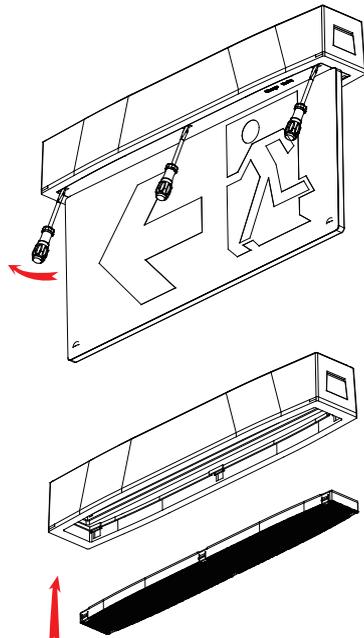
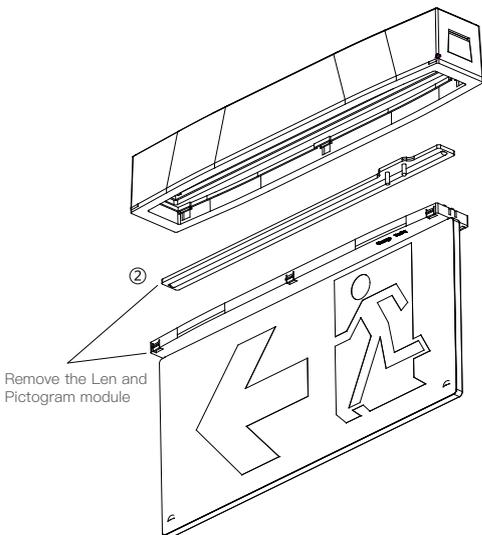
Step 4: Mains ON



Pic8.1

Hanging installation
device

Installation 5: Install it as emergency light



9 EM inspection record table

Luminaire emergency inspection record

month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	1 hour										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	3 hours										

Installed By: Installed Date: Luminaire NO.:

Luminaire Location: Contact details:



INNOVATING YOUR PROJECTS