

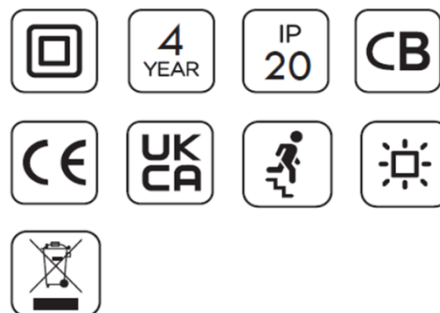
## Installation and Maintenance

Product Code: EM SPOT2 REC ST

Product Description: LED Self-Test Emergency Downlight

### Specification

Emergency Power:	1.2W
Emergency Duration:	3 hours
Ambient Temp:	5-45°C
Emergency Mode:	Non-Maintained
Emergency Lumens:	120lm(Open area lens) 130lm(Corridor lens)
Function:	Self-test
Battery:	LiFePO4 3.2V 1500mAh
Warranty:	4 years (battery 2 years )



### Routine Testing

Testing should be carried out in accordance with the recommendations of BS5266 & EN50172.

1. Do not switch off unswitched mains supply after installation. If interruption is unavoidable, the batteries must be disconnected or damage to the batteries may occur. Leave the luminaire on continuous charge for 24 hours.
2. A monthly functional test should be conducted manually.
3. Annually, a full three hour duration test should be conducted manually.
4. Batteries should be replaced when the luminaire no longer meets the 3 hours duration performance.
5. Testing is performed by interrupting the unswitched supply for the test duration manually.

During testing the luminaire should remain illuminated in emergency mode.

6. Ensure that the 'charge indicator' is 'ON' during 'Charging Mode'.

If the charge indicator (LED) is unlit, this signifies a fault.

7. Replace faulty light source and batteries immediately.

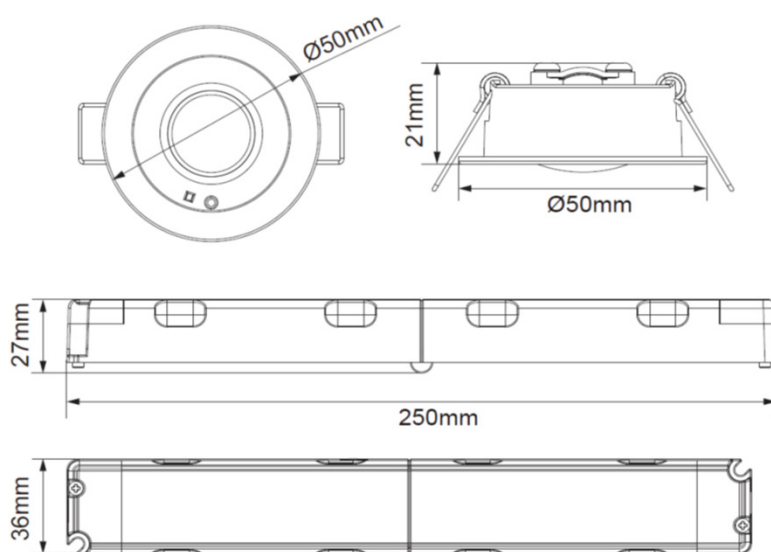
To assist with this testing, a test record is included below.

To increase the chance of a fault being reported between monthly tests, it is desirable that staff are made aware of the purpose of the indicator.

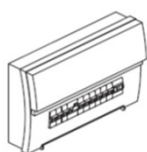
Product: \_\_\_\_\_ Location: \_\_\_\_\_ Installation Date: \_\_\_\_\_

Month	Functional / Duration	Year 1	Year 2	Year 3	Year 4	Year 5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

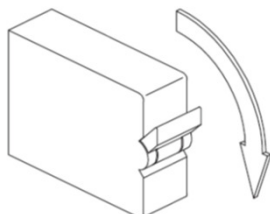
## Installation Instruction



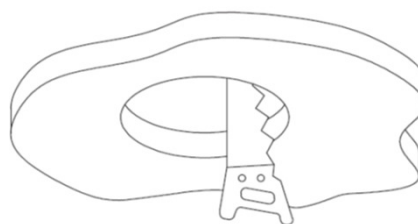
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ALWAYS SWITCH OFF THE  
MAINS SUPPLY BEFORE  
INSTALLATION OR SERVICING

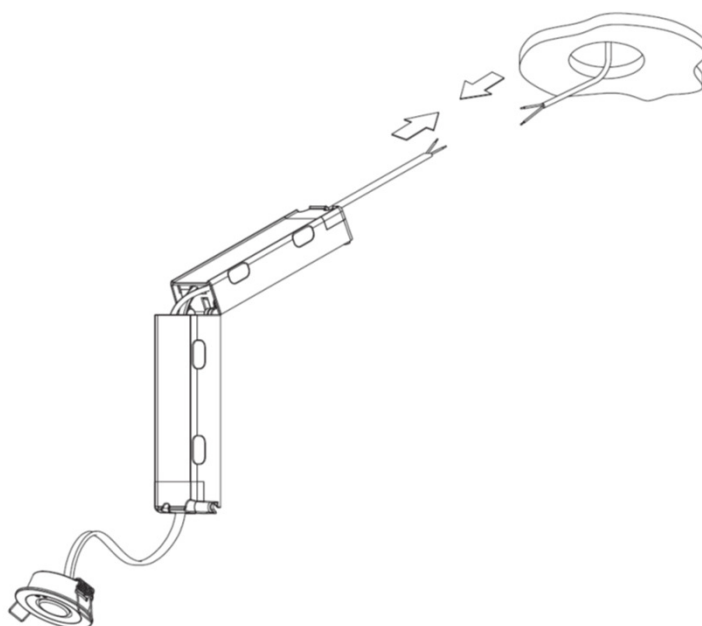


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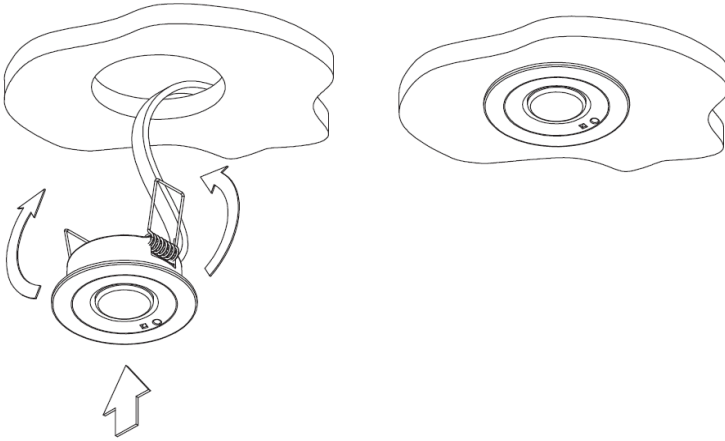


Cut-Out  
 $\varnothing 43-44\text{mm}$

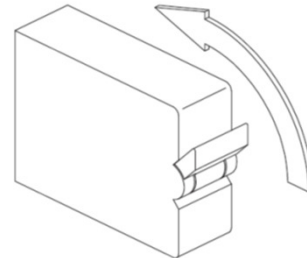
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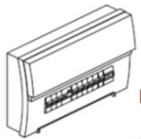


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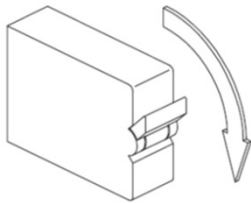


### Lens Replacement

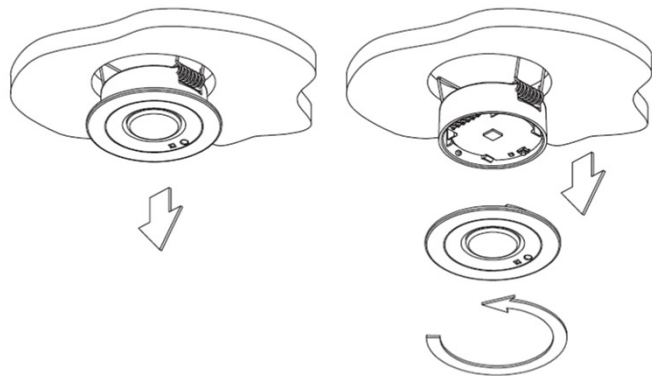
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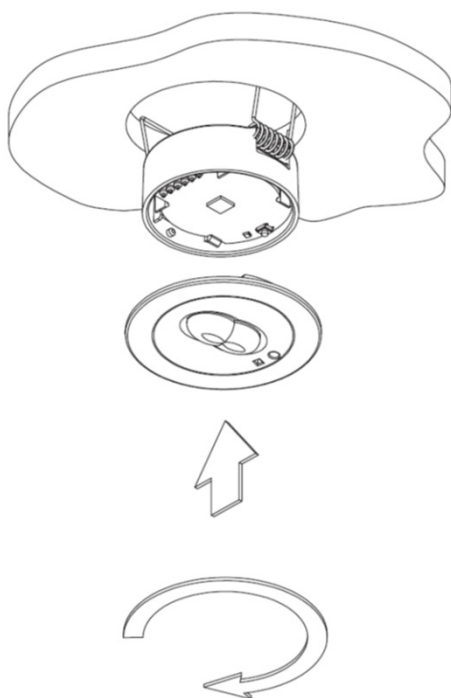
ALWAYS SWITCH OFF THE  
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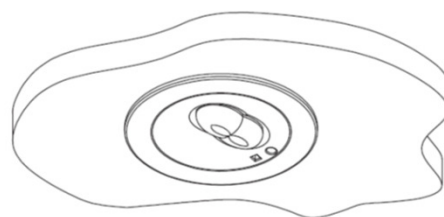
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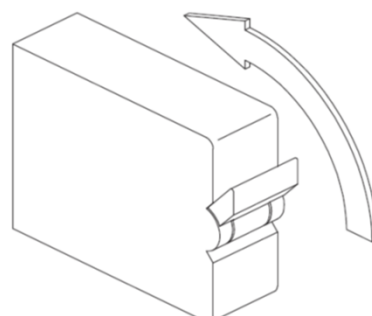
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## Specifications for Self Test









### Function Test

The function test is carried out every month for 3 minutes. It will check the connection of battery, battery discharging and the connection of LED module.

### Duration Test

An initial duration test is carried out at first power on, but after 24 hours charging. The yearly duration test is carried out for 3 hours on one day within the 300th day to the 365th day every year. It will also check the connection of battery and LED module.

A bi-colour indicator will indicate the normal and abnormal status. Green is for conditions are normal and red for the faulty conditions.

LED Colour	Status	On Time	Off Time	Description
Green		Permanently on	-	Normal status when mains connected
		Slow Flash	1 sec	Duration Test Running
		Fast Flash	0.2 sec	Function Test Running
		3 flashes only	0.5 sec	Reset
Red		Permanently on	-	Battery Failure
		Slow Flash	1 sec	Lamp Failure
		Fast Flash	0.2 sec	Duration Failure - insufficient battery capacity
Off		Off	-	Fitting is in Emergency Mode

A switch can be used to activate manual tests as follows:

Action	Function
Press for <2sec	Simulate emergency mode
Press for 3-5sec	Start duration test manually. The test can be aborted by pressing off (1-2sec).
Press for 5-8sec	Start Function test manually for 60sec. The test can be aborted by pressing off (1-2sec).
Press for >10sec	Time Reset

### Note:

When the mains is on, the green indicator will be on permanently. It will check the connection of battery and the connection of LED module. If it is a non-maintained fitting, the connection of LED module does not need to be checked. When the mains is off, no test will perform.

Before performing function and duration tests luminaires must be connected to the mains supply for at least 24 hours continuously. If the mains is off during these tests, the tests will be postponed for 3 days.

When the fault is corrected, the indicator will only be reset to its normal status after the mains is reconnected or the test switch pressed.

Timing for test intervals is accurate to within  $\pm 75$  seconds per week. Timing will be retained if mains is disconnected for up to 7 days.