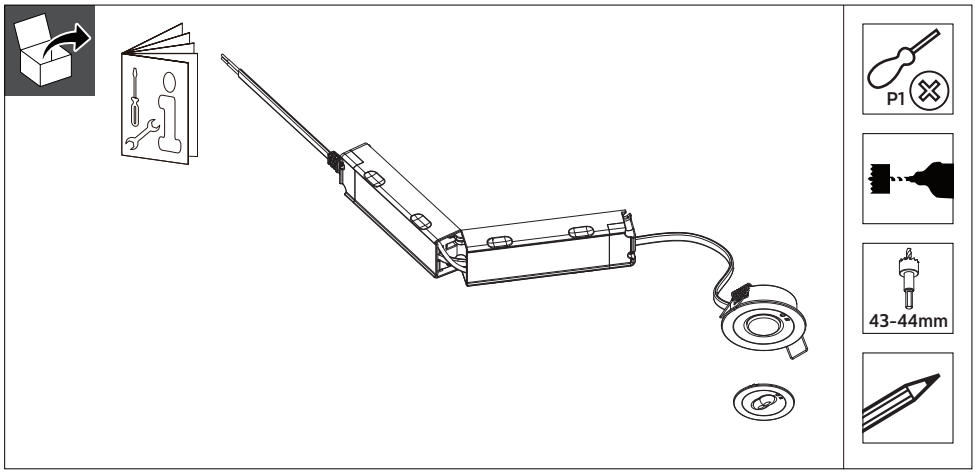
PHILIPS

# Emergency Downlight

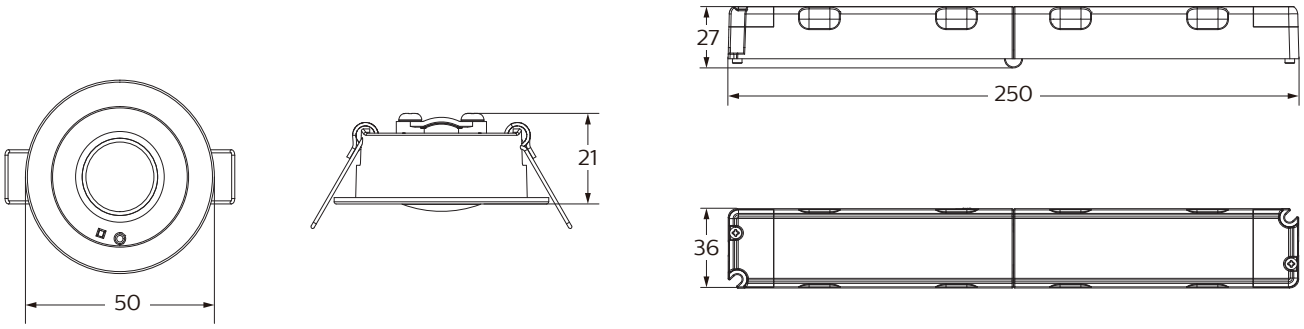
EM150B REC 1S OA/CO



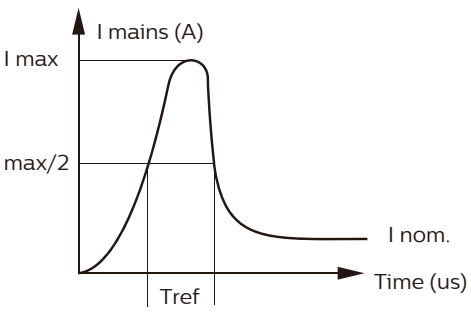

indoor | 220V 240V | 50Hz 60Hz | LEDs | IP20 | GLOW WIRE 650 °C | Max. 45 °C Min. 0 °C

| | Test | CCT (K) | Lumen (lm) | P (W) | kg |
|---|---|---|---|---|---|
| EM150B REC 1S OA/CO NM3 ELP WH IP20 | auto | 6500 | 120lm (open area)<br>130lm (corridor) | 1 | 0.2 |
| EM150B REC 1S OA/CO NM3 ELB WH IP20 | manual | | | | |

Dimensions in mm




**Inrush current**




| | Electrical characteristics |
|---|---|
| Inom (mA) | 0.011 |
| Imax (A) | 5.6 |
| Tref (µs) | 2.6 |
| MCB | Luminaires Max. |
| B-10 A | 152 |
| B-13 A | 198 |
| B-16 A | 244 |
| C-10 A | 254 |
| C-13 A | 330 |
| C-16 A | 407 |

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

- The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.
- Clean with dry cloth.
- Philips Lighting warranty is applicable only if the indicated drivers are used.

912401483504 (EM150B REC 1S OA/CO NM3 ELP WH IP20)
912401483505 (EM150B REC 1S OA/CO NM3 ELB WH IP20)
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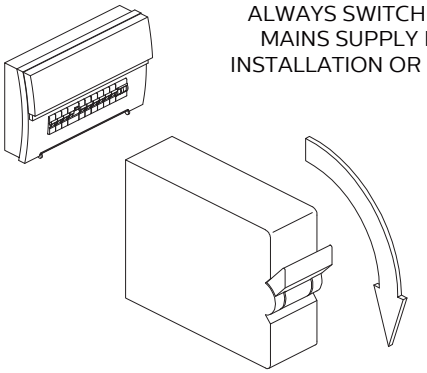
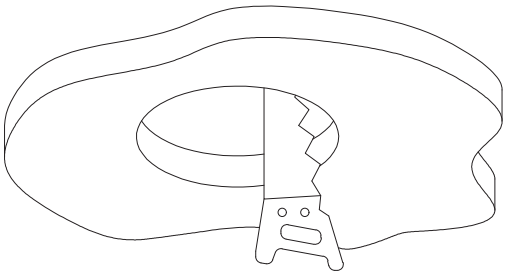
ALWAYS SWITCH OFF THE
MAINS SUPPLY BEFORE
INSTALLATION OR SERVICING

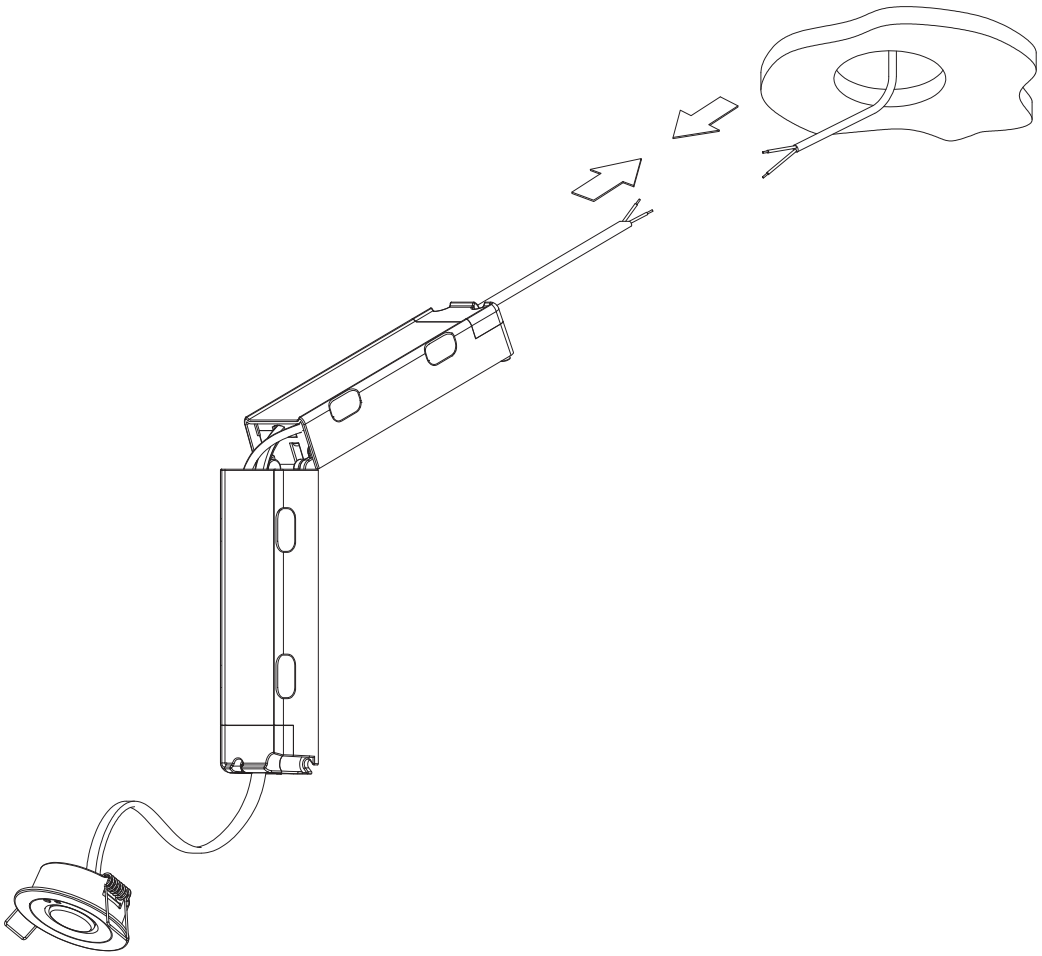


1

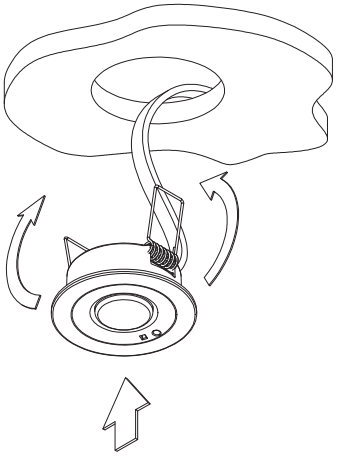


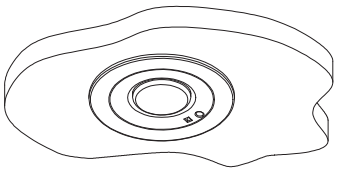
Cut-Out
Ø43-44mm

2



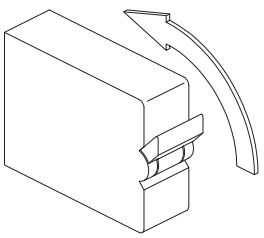
3





4

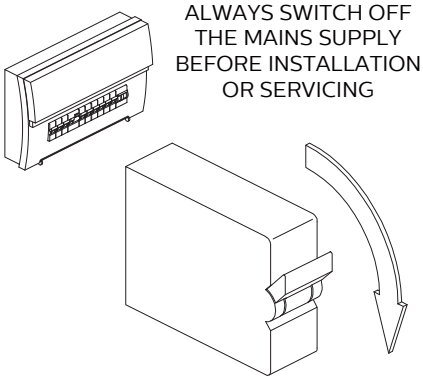
SWITCH ON THE MAINS
SUPPLY AFTER
INSTALLATION OR
SERVICING



5

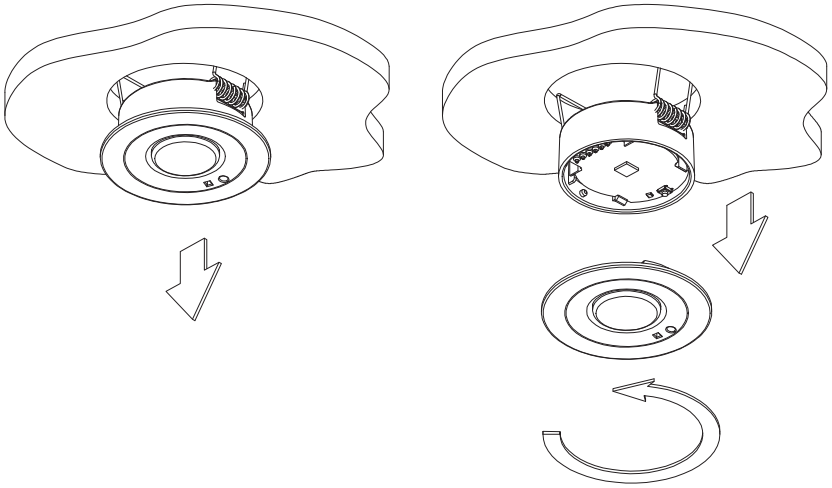
# Lens Replacement

1



ALWAYS SWITCH OFF
THE MAINS SUPPLY
BEFORE INSTALLATION
OR SERVICING

2



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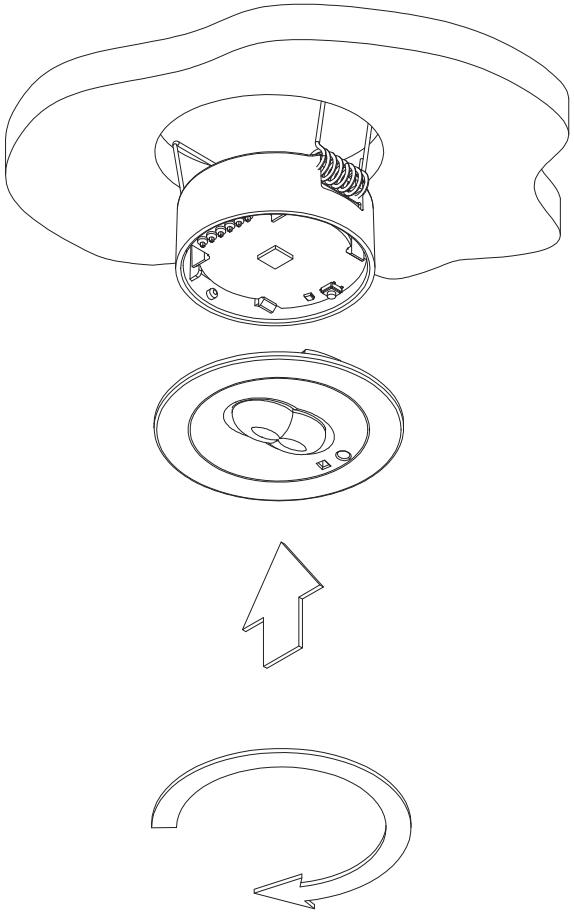

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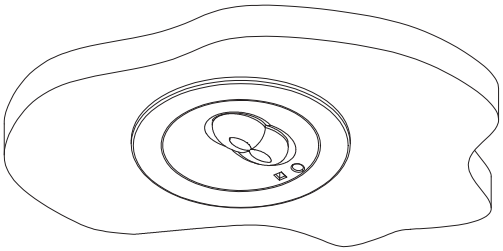
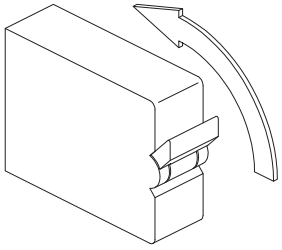


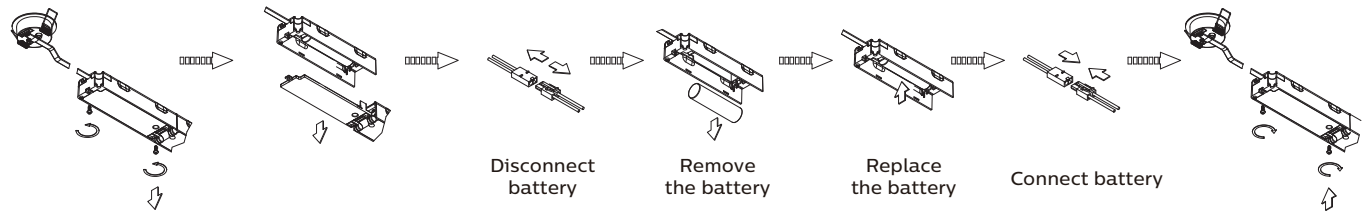
5

SWITCH ON THE MAINS SUPPLY
AFTER INSTALLATION
OR SERVICING

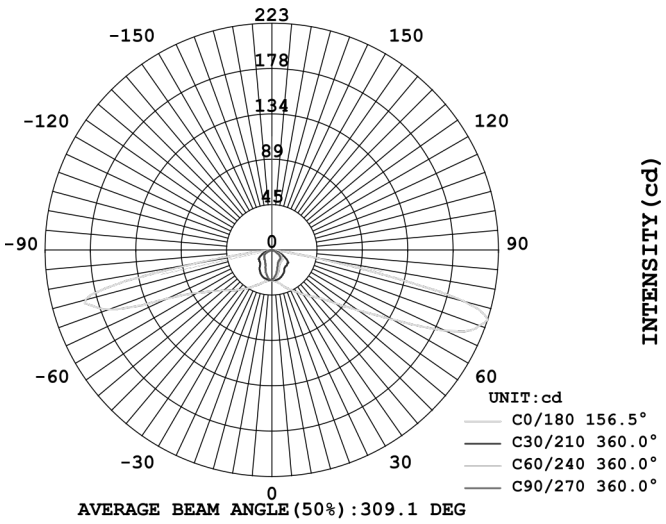


## Battery replacement

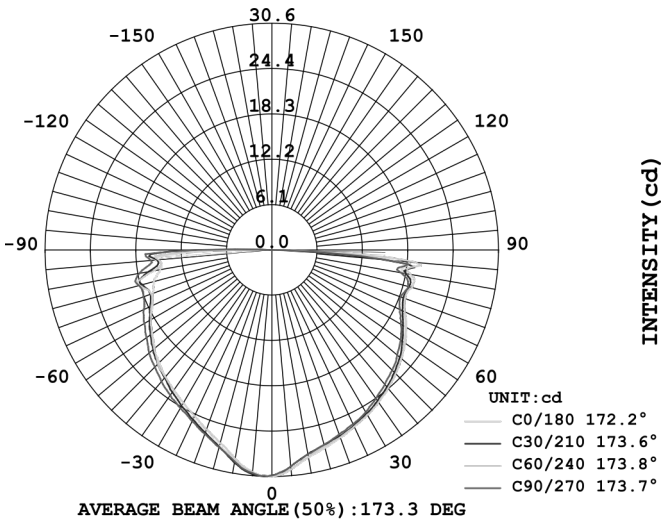
$LiFePO_4$ -18650-1500mAh-3.2V




## Luminous Intensity Distribution (Corridor)




## Luminous Intensity Distribution (Open Area)




## Corridor Spacing Data (1 lux)

| Mounting Height (m) | | | | | |
|---|---|---|---|---|---|
| 2.50 | 3.22 | 16.80 | 10.46 | 4.65 | 1.53 |
| 3.00 | 5.08 | 17.17 | 9.87 | 4.49 | 1.40 |
| 3.50 | 4.30 | 14.86 | 8.99 | 4.18 | 1.25 |
| 4.00 | 3.73 | 13.27 | 8.13 | 3.89 | 0.98 |

## Open Area Spacing Data (1 lux)

| Mounting Height (m) | | | | | |
|---|---|---|---|---|---|
| 2.50 | 2.27 | 6.64 | 6.55 | 6.66 | 2.33 |
| 3.00 | 2.11 | 6.64 | 6.56 | 6.67 | 2.16 |
| 3.50 | 1.80 | 6.50 | 6.42 | 6.50 | 1.85 |
| 4.00 | 1.31 | 6.19 | 6.11 | 6.17 | 1.35 |

1. For indoor use only.
2. The luminaire complies with IEC60598-1IEC 60598-2-22.
   The luminaire must be installed by a qualified electrician and wired in accordance with the latest IEE Electrical regulations or the national requirements.
3. Turn off the power supply before checking, installation, maintenance or moving.
4. Do not switch on before complete installation.
5. Batteries shall only be replaced by the manufacturer or his service agent or a similar qualified person.
6. Batteries should be replaced when the luminaire no longer meets the 3 hours duration performance.
7. Product mains surge immunity is 0.5/1KV (diff. / comm. mode). To prevent excessive currents and voltages from damaging the device, make sure that the power supply input is equipped with additional protection devices such as surge protectors. For any questions regarding the product's surge protection, please consult the manufacturer's professional.

Please inform yourself about the local waste disposal, separation and collection system for electrical and electronic products and packaging. Please act according to your local rules and do not dispose your old product and packaging with your normal household waste. The correct disposal of the packaging, your product and/or batteries will help prevent potential negative consequences for the environment and human health.Batteries should be disposed separately from the municipal waste stream via designated collection facilities.When disposing a product that contains non-user replaceable batteries, the non-user replaceable batteries shall be removed by a professional.

**Testing Record**

**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 | | | | | | |

# Emergency Downlight

## Specifications For Self Test

**Function Test**

The function test is conducted every month for 3 minutes to check whether the battery connection is abnormal and discharge the battery and the connection of LED module.

**Duration Test**

An initial duration test is conducted when the battery is connected to the controller for the first time and connected to mains, but after 24 hours charging.

The yearly duration test is conducted 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.

**Description corresponding to the color and status of the charge indicator**

| Charge Indicator Color | Status | | On Time (Seconds) | Off Time (Seconds) | Description |
|---|---|---|---|---|---|
| Green |  | Permanent on | / | / | Normal status when mains connected |
| |  | Slow flash | 1s | 1s | Duration test running |
| |  | Fast flash | 0.2s | 0.2s | Function test running |
| |  | Normal flash three times only | 0.5s | 0.5s | Time reset |
| | | | | | |
| Red |  | Permanent on | / | / | Battery connection is abnormal or failure |
| |  | Slow flash | 1s | 1s | Lamp connection is abnormal or failure |
| |  | Fast flash | 0.2s | 0.2s | Duration failure - the capacity of the battery is insufficient |
| Both Off |  | Off | / | / | Emergency mode |

**Failure indication status should be checked and rectified as soon as possible.**

**Test button for manual inspection on function test or duration test mode of operation**

| Duration | Description |
|---|---|
| Press for <2s | Simulate emergency mode. |
| Press for 3-5s | Start duration test manually. The test can be aborted by pressing off (1-2s).<br>* Must be conducted when the initial duration test finished and after another 24 hours battery charging. |
| Press for 5-8s | Start Function test manually for 60s. The test can be aborted by pressing off (1-2s). |
| Press for >10s | Time Reset. |

**Note:**

When the mains is on, the green indicator will be permanently on. 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 no need to be checked. When the mains is off, no test will perform.

The luminaires on which we want to perform the function and duration tests must be connected to the mains supply for at least 24 uninterrupted hours. 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 mains reconnected or test switch pressed.

An accuracy of the timing of the test interval is ensured that it has an accuracy of ±75 s per week. The timing function will be retained through periods of mains supply failure or interruption for up to 7 days.