

EFFEKTA

INSTALLATION AND OPERATING INSTRUCTIONS FOR LED EMERGENCY LUMINAIRE



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) .

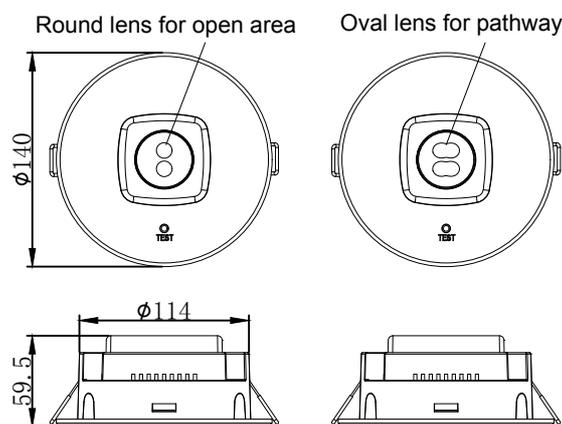
 Recessed LED Downlight Caution: The luminaires is not suitable for covering with thermally insulated material.

GENERAL INFORMATION

LED emergency light, down light style, 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, recessed mounting or surface mounting.

TECHNICAL DATA

| | |
|---------------------|--|
| Input voltage: | 220-240V, 50/60Hz |
| Charge time: | 24H |
| Emergency Duration: | 1 or 3 Hours option |
| Power consumption: | Ref below chart |
| Test facility: | Manual test, AUTO test |
| Source: | High power LED 3535 |
| Color temperature: | CCT 5000K |
| Operation: | Non-maintained default |
| Lumen output : | 510lm |
| Battery: | LiFePO4 battery |
| Mounting: | Recessed mounting, surface mounting option |
| IP rating: | IP20 |
| 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 LiFePO4 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.

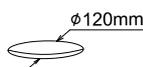
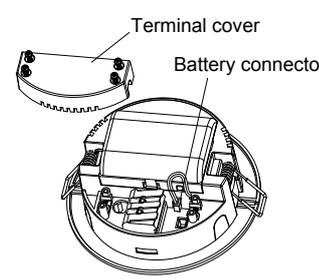
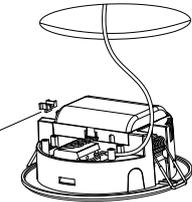
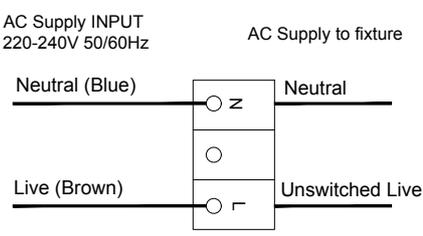
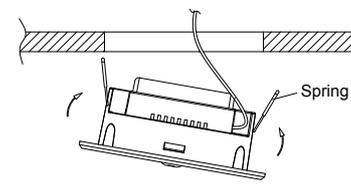
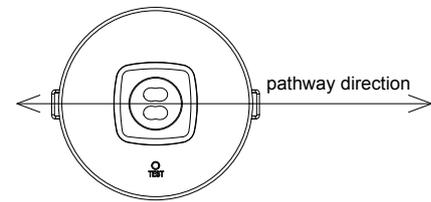
Battery have to recharge if product keep in stock over 12 months, detail manual refer "BATTERY STOCK AND RECHARGE GUIDELINE".

SPECIFICATION

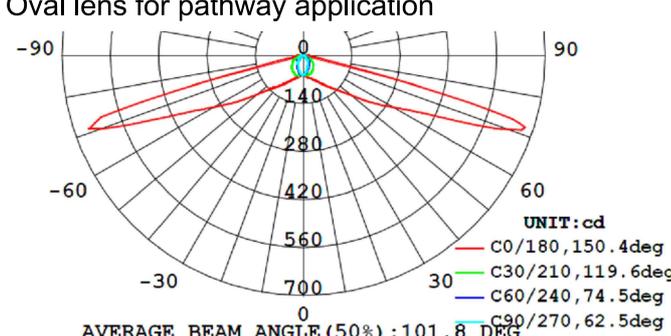
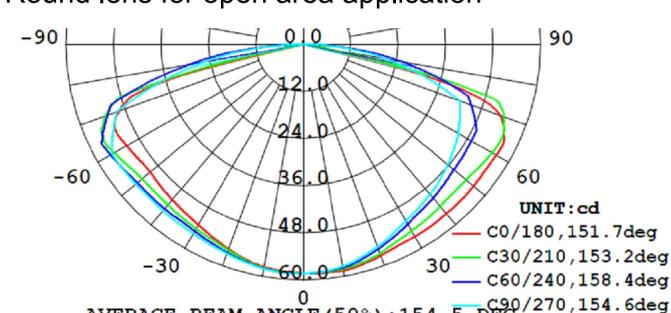
| Art.no. | Input Voltage | Charge Duration | Discharge Duration | Power consumption | Operation | Battery | Lumen output |
|---------|---------------|-----------------|--------------------|-------------------|------------------------|--------------------|--------------|
| 960614 | 220-240V | 24h | 1 h | Max 3W | Non-maintained default | LiFePO4 6.4V1500mA | 510lm |

INSTALLATION AND OPERATING INSTRUCTIONS

RECESSED MOUNTING INSTRUCTION

| | | |
|---|---|---|
| <p>①</p>  <p>Make a cut out hole, dimension $\phi 120\text{mm}$. The thickness of mounting plate 10 to 20 mm.</p> | <p>②</p>  <p>Unscrew 3pcs screws, remove terminal cover. Attach battery connector on PCBA.</p> | <p>③</p>  <p>Suit cable H03VV-F 0.75 mm² X 3pin or H03VV-F 1.5 mm² X 3pin</p> <p>Cable gland</p> <p>In case wiring 1.5 mm² X 3pin cable, should remove cable gland get bigger space.</p> <p>Make AC power supply wiring, brown wire connect L, blue wire connect neutral.</p> |
| <p>④</p> <p>NEMD2 AC wiring</p>  <p>AC Supply INPUT 220-240V 50/60Hz</p> <p>AC Supply to fixture</p> <p>Neutral (Blue) — Neutral</p> <p>Live (Brown) — Unswitched Live</p> <p>NEMD2 only have non-maintained operation.</p> | <p>⑤</p>  <p>Rotate spring and recessed unit on the cut-out hole.</p> | <p>⑥</p>  <p>pathway direction</p> <p>If the unit use oval lens for pathway, need adjust unit direction at correct direction.</p> |

PHOTOMETRIC DATA

| <p>Oval lens for pathway application</p>  <p>UNIT: cd</p> <ul style="list-style-type: none"> C0/180, 150.4deg C30/210, 119.6deg C60/240, 74.5deg C90/270, 62.5deg <p>AVERAGE BEAM ANGLE (50%): 101.8 DEG</p> | <table border="1"> <thead> <tr> <th>Mounting height</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>2.5m</td> <td>12.0m</td> <td>30m</td> <td>12.0m</td> </tr> <tr> <td>3.0m</td> <td>12.8m</td> <td>32m</td> <td>12.8m</td> </tr> <tr> <td>3.5m</td> <td>13.6m</td> <td>34m</td> <td>13.6m</td> </tr> <tr> <td>4.0m</td> <td>14.4m</td> <td>36m</td> <td>14.4m</td> </tr> </tbody> </table> <p>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.</p> | Mounting height | | | | 2.5m | 12.0m | 30m | 12.0m | 3.0m | 12.8m | 32m | 12.8m | 3.5m | 13.6m | 34m | 13.6m | 4.0m | 14.4m | 36m | 14.4m | | | | | |
|--|--|-----------------|-------|------|--|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|-------|------|------|-----|-----|------|
| Mounting height | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5m | 12.0m | 30m | 12.0m | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0m | 12.8m | 32m | 12.8m | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5m | 13.6m | 34m | 13.6m | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0m | 14.4m | 36m | 14.4m | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Round lens for open area application</p>  <p>UNIT: cd</p> <ul style="list-style-type: none"> C0/180, 151.7deg C30/210, 153.2deg C60/240, 158.4deg C90/270, 154.6deg <p>AVERAGE BEAM ANGLE (50%): 154.5 DEG</p> | <table border="1"> <thead> <tr> <th>Mounting height</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>2.5m</td> <td>6.8m</td> <td>17m</td> <td>17m</td> <td>6.8m</td> </tr> <tr> <td>3.0m</td> <td>7.2m</td> <td>18m</td> <td>18m</td> <td>7.2m</td> </tr> <tr> <td>3.5m</td> <td>7.6m</td> <td>19m</td> <td>19m</td> <td>7.6m</td> </tr> <tr> <td>4.0m</td> <td>8.0m</td> <td>20m</td> <td>20m</td> <td>8.0m</td> </tr> </tbody> </table> <p>The horizontal illuminance shall be not less than 0.5 lx at the floor level at each point of the empty core area which excludes a border of 0.5 m of the perimeter of the area.</p> | Mounting height | | | | | 2.5m | 6.8m | 17m | 17m | 6.8m | 3.0m | 7.2m | 18m | 18m | 7.2m | 3.5m | 7.6m | 19m | 19m | 7.6m | 4.0m | 8.0m | 20m | 20m | 8.0m |
| Mounting height | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5m | 6.8m | 17m | 17m | 6.8m | | | | | | | | | | | | | | | | | | | | | | |
| 3.0m | 7.2m | 18m | 18m | 7.2m | | | | | | | | | | | | | | | | | | | | | | |
| 3.5m | 7.6m | 19m | 19m | 7.6m | | | | | | | | | | | | | | | | | | | | | | |
| 4.0m | 8.0m | 20m | 20m | 8.0m | | | | | | | | | | | | | | | | | | | | | | |