# Firefly AL

## Discreet anti-ligature emergency luminaires with LiFePO₄ battery technology



Firefly AL is an anti-ligature, recessed emergency luminaire with five optical distribution options for illuminating points of emphasis, escape routes, and open areas (anti-panic). Equipped with an aluminium bezel secured by tamper-resistant T20 pin Torx screw fixings.

Featuring Lithium Iron Phosphate ($LiFePO_4$) battery technology with SmartScan wireless communication versions backed by a 10-year product warranty. Available in 3 W or 4 W power outputs and engineered for easy installation and maintenance.

Firefly AL achieves a reduction in total embodied carbon, reduced energy consumption and a doubled life expectancy compared to the previous model.

Applications: mental health and custodial facilities.

- Anti-ligature and tamper-resistant
- Product warranty of up to 10 years
- Next-generation optics for optimised light distribution
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology
- SmartScan Emergency - Wireless communication, simple to install, automatic testing and full status reporting versions
- Low standby power consumption (< 1 W total)

Notes: It is a legal obligation to provide emergency lighting in all premises used as a workplace, entertainment venue, leisure facility, or communal residential property.

**IP40 (IP20 above ceiling)** SMARTSCAN

## Specification

| | | | |
|---|---|---|---|
| Mounting | **Recessed** | IP rating | **IP40 (IP20 above ceiling)** |
| Anti-ligature compliance | **Anti-ligature** | | |

## Lighting

| | |
|---|---|
| Distribution | **Area**<br>**Corner**<br>**Corridor**<br>**Corridor+**<br>**Spot** |

# Firefly AL

## Emergency data

| | | | |
|---|---|---|---|
| Emergency lumen output | **270 lm - 425 lm** | Emergency type | **Non-maintained** |
| Emergency duration | **3 hours** | Battery specification | **Lithium Iron Phosphate (LiFePO4)** |

## Power

| | | | |
|---|---|---|---|
| LED power | **3 W - 4 W** | Circuit power | **5 W - 5.5 W** |

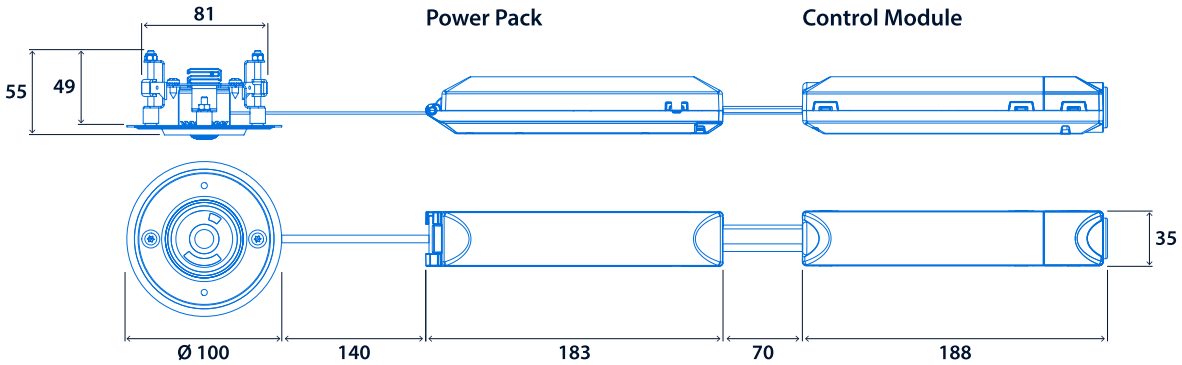
## Construction

| | | | |
|---|---|---|---|
| Housing | **Zinc coated steel bezel** | Finish | **Full polyester powder coat** |
| Bezel colour | **White** | Optical assembly | **High performance polycarbonate lens** |
| Cover fixings | **Stainless steel T20 pin Torx** | | |

## Compliance

| | | | |
|---|---|---|---|
| UKCA | **Yes** | CE | **Yes** |

## Dimensions




**Cut-out - Ø 83**
**Minimum void depth - 160 mm**

# Firefly AL

## Range

| Emergency system | Product | LED power | Mounting | Optics | Product version |
|---|---|---|---|---|---|
| **W** SmartScan Emergency<br>**D** DALI / Self-Test Emergency<br>**T** Standard / Self-Test Emergency | **FZ** Firefly | **3** 3 W | **R** Recessed | **AR** Area<br>**SP** Spot<br>**CD** Corridor | **AL** Anti-ligature |
| | | **4** 4 W | **R** Recessed | **AR** Area<br>**SP** Spot<br>**CR** Corner<br>**CP** Corridor+ | |

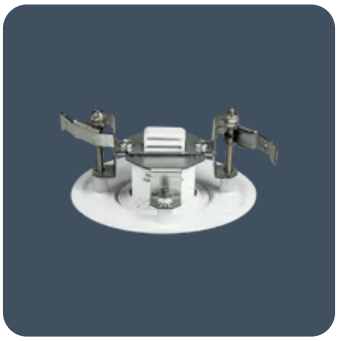
E.g. **WFZ3RARAL** = SmartScan Emergency / Firefly / 3 W / Recessed / Area / Anti-ligature

## Spares

| Product code | Description | Weight |
|---|---|---|
| **EMB1001** | Lithium Iron Phosphate (LiFePO4) battery - 3 Ah - Blue - End of life batteries can be returned to Thorlux for recycling | 0.18 kg |
| **EMB1010** | Lithium Iron Phosphate (LiFePO4) battery - 4 Ah - Green - End of life batteries can be returned to Thorlux for recycling | 0.18 kg |


Firefly AL with area optic


Firefly AL with gear and battery


Firefly AL rear view

**Click or scan here**

**View Firefly AL variants using our online filtering tool**



Information is correct as of 16 Nov 2026, however must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.