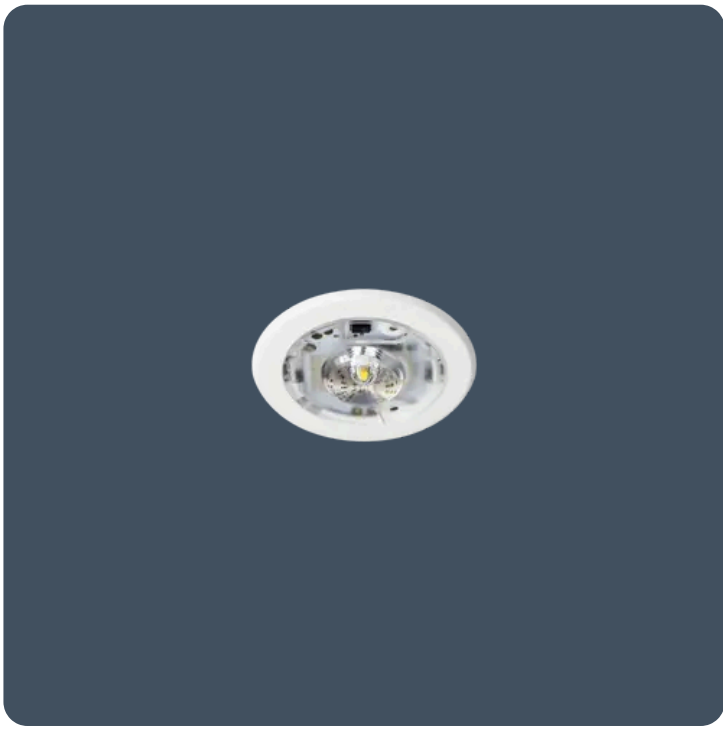
Firefly

Discreet emergency luminaires with LiFePO4 battery technology



Firefly is an inconspicuous, recessed emergency luminaire with five optical distribution options for illuminating points of emphasis, escape routes and open areas (anti-panic). Rated IP40 as standard, with an IP65 version available.

Firefly features 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, engineered for easy installation and maintenance.

This luminaire achieves a 45% reduction in total embodied carbon, reduced energy consumption, and a doubled life expectancy compared to the previous model.

Applications: commercial environments, education, healthcare and retail.

- Product warranty of up to 10 years
- Next-generation optics for optimised light distribution
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology
- Compact and discreet design
- 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.

Up to IP65 (IP20 above ceiling) SMARTSCAN

Specification

Mounting	**Recessed**	IP rating	**Up to IP65 (IP20 above ceiling)**

Lighting

Distribution	**Area** **Corner** **Corridor** **Corridor+** **Spot**

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**

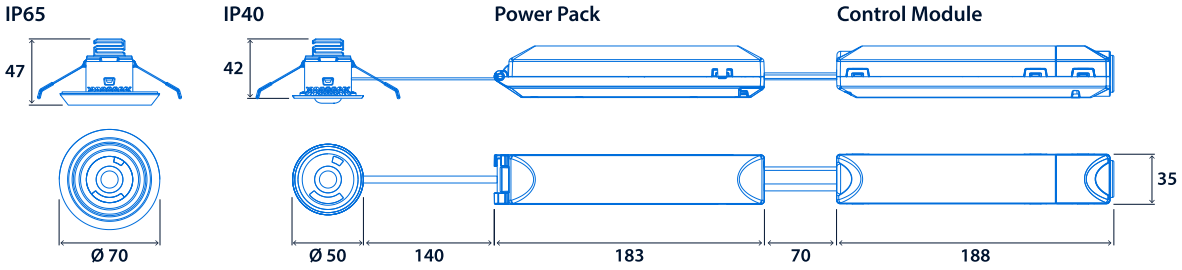
Construction

Housing	**100% recycled polycarbonate housing**	Body colour	**White (RAL 9003)**
Optical assembly	**High performance polycarbonate lens**		

Compliance

UKCA	**Yes**	CE	**Yes**

Dimensions



Cut-out - Ø 40
Minimum void depth - 160 mm

Range

Emergency system	Product	LED power	Mounting	Optics	Product version (optional)
W SmartScan Emergency **D** DALI / Self-Test Emergency **T** Standard / Self-Test Emergency	**FZ** Firefly *	**3** 3 W	**R** Recessed	**AR** Area **SP** Spot **CD** Corridor	**65** IP65 **
		4 4 W	**R** Recessed	**AR** Area **SP** Spot **CR** Corner **WL** Wall **CP** Corridor+	

* IP40 as standard ** When replacing a previous generation Firefly (60 mm aperture), order the IP65 version (70 mm bezel)

E.g. **WFZ3RAR** = SmartScan Emergency / Firefly / 3 W / Recessed / Area

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



IP40 Firefly with area optic





IP40 3 W Firefly with gear and battery



IP65 Firefly with area optic



IP65 4 W Firefly with gear and battery

Click or scan here

View Firefly 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.