STRATEGY IN ACTION

The all new Firefly range.

Group Innovation Project

Firefly with Power Pack and Control Module

Developed through collaborative efforts as a Group innovation project, the new Firefly emergency downlight has improved features and benefits, including new enhanced lithium battery technology, providing pivotal emergency lighting with a 10-year warranty.

One of Thorlux Lighting's most successful products, Firefly has helped thousands of customers achieve emergency lighting compliance, making buildings, campuses and facilities safer, and protecting staff, visitors and the general public.

Group collaboration and joint development

The **Luciérnaga** joint project ('Firefly' in Spanish) is the first collaboration to combine the knowledge, resources and experience from four Group companies: Thorlux Lighting (UK), Philip Payne (UK), Famostar (NL) and Zemper (ES).

This collaboration brings with it a number of advantages:

Firefly Surface

Firefly IP65

Control of supply chain components and reduced reliance on third-party suppliers.

Internal production of advanced and market-leading electronic components.

Group development of emergency self-test and wireless communication software (SmartScan).

Significant Group investment in new body moulds, tooling and optical distribution designs, for improved overall product performance.

Reduced product material, manufacturing and component expenditures.

The new Firefly combines a discreet recessed downlight with the SmartScan wireless emergency system for a reliable, compliant solution that is easy to install and maintain.

Reliability, functionality and simplicity

Customers today seek an emergency lighting system that provides a fit-and-forget solution and achieves compliance. Firefly's discreet 50mm recessed head and SmartScan wireless controls are the ideal combination to deliver a reliable and functional answer to this requirement.

The monthly function tests, annual duration tests and daily product status reports provide the responsible person with the necessary information to ensure that people can safely escape a building during a power failure.

With ease of use at the heart of the design, Firefly is simple and quick to install. It offers easy maintenance of consumable parts like batteries. Furthermore, the body has been designed with chamfered edges to make inserting or extracting it from ceilings a smooth process.

Battery technology

A higher efficiency battery with lower operating power creates an all-around more sustainable Firefly. Findings show lithium batteries have four times less embodied carbon per kilogramme than nickel metal hydride batteries. Additionally, a lithium battery charge cycle will switch off when full capacity is achieved, reducing energy consumption.

Precision emergency lighting

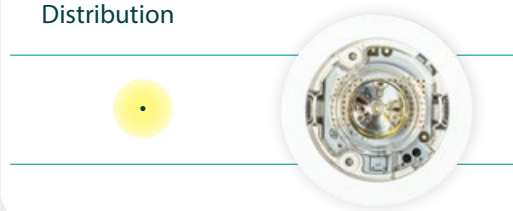
Ensuring safe passage from a building during a power failure is crucial and potentially life saving. For this reason, Firefly has been significantly upgraded, with more optical distribution variations to help eliminate or reduce risk to escapees.

In particular, the new advanced corridor plus optic distributes 1 lux of light 24 metres along a corridor while highlighting points of emphasis such as call points and fire extinguishers.

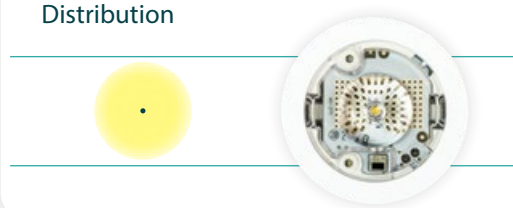
Furthermore, optimisation of the spot optic achieves minimum lighting requirements for healthcare treatment beds, providing 50 lux in emergency lighting conditions. This requirement ensures medical professionals have the correct lighting levels to treat and care for patients under normal power output conditions.

Finally, the corner optic provides a guiding escape light around bends, illuminating the next section of the escape route. Standards dictate that an emergency luminaire must be within two metres of a change of direction; the nine-metre spacing distance provided by this optic means fewer fittings are required.

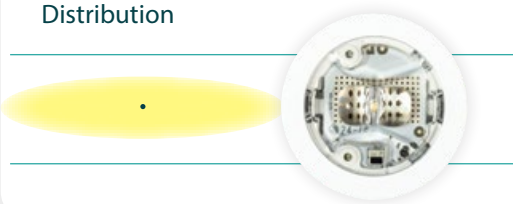
Spot Optic Distribution



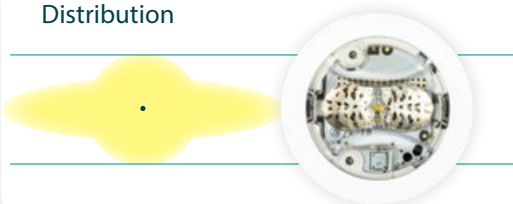
Area Optic Distribution



Corridor Optic Distribution



Corridor Plus Optic Distribution



Corner Optic Distribution