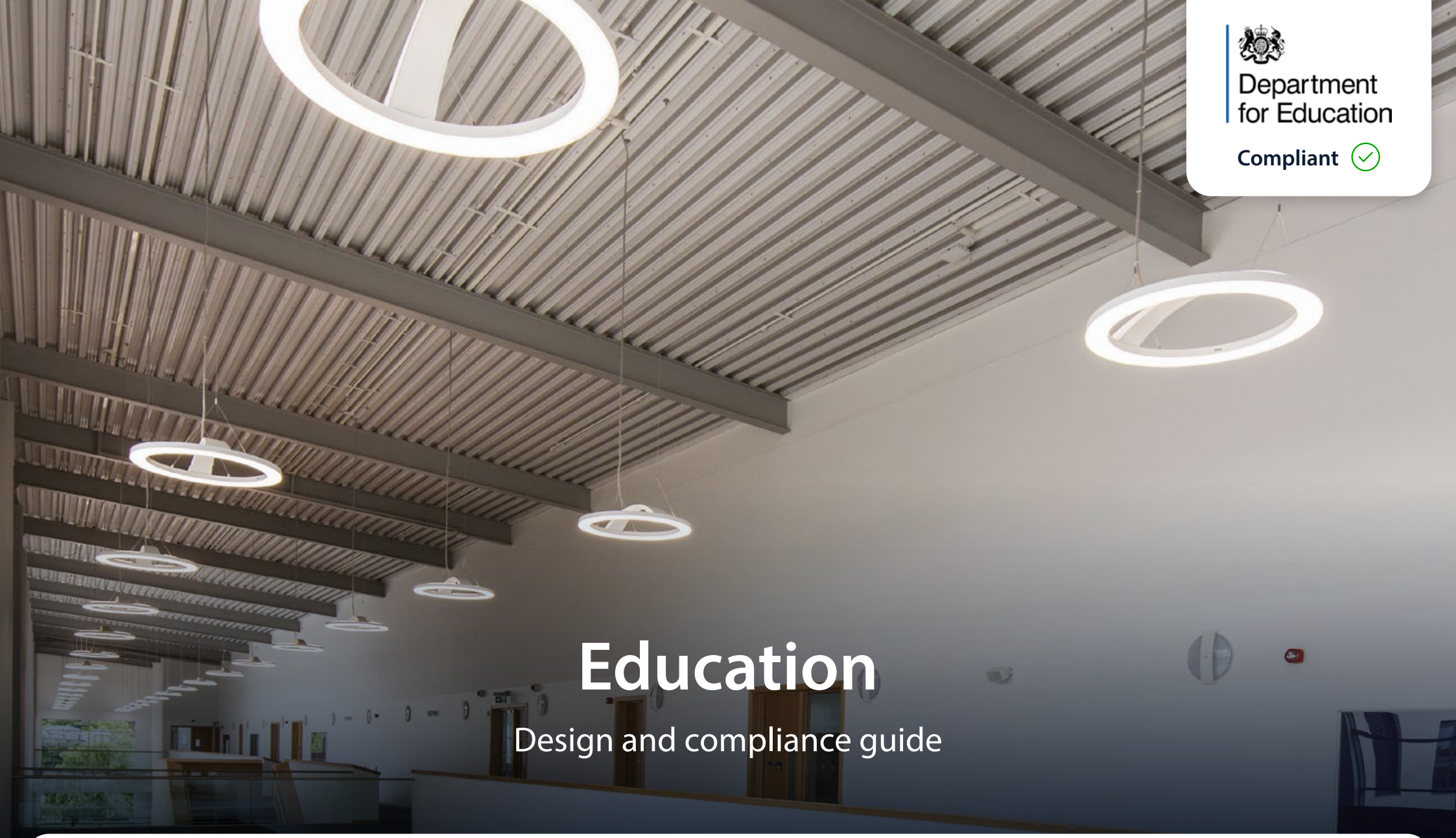


Department for Education

Compliant

# Education

## Design and compliance guide

MADE IN THE UK

Thorlux Lighting



# Illuminating the mind: Light as a tool for learning.

The quality of light in educational environments plays a critical role in supporting pupil wellbeing, engagement, and overall learning outcomes. Well-designed lighting contributes not only to visual performance, but also to comfort, alertness, and the creation of an inclusive, supportive learning environment.

Modern learning spaces are increasingly dynamic, accommodating a wide range of activities, teaching styles, and technologies. As such, lighting must be adaptable and responsive. Intelligent lighting controls enable this flexibility, allowing spaces to be tuned to different tasks while optimising energy performance. Through the use of presence detection, daylight dimming, and intuitive user controls, lighting systems can deliver the right light at the right time thus enhancing the learning experience while meeting the demands of energy efficiency and sustainability.



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# Standards for lighting in educational environments



Effective lighting is essential for creating safe, comfortable, and productive educational environments. In the UK, several key standards and guidance documents support the design and evaluation of lighting in schools and other learning settings.

These include the Department for Education (DfE) requirements, CIBSE's Lighting Guide 5 (LG5), and the British/European standard BS EN 12464 1. Together, these frameworks help ensure that lighting solutions meet expectations for visual performance, wellbeing, and regulatory compliance in both new and existing educational buildings.

## Department for Education (DfE)

DfE lighting requirements apply in any project involving school buildings in England where compliance with DfE standards is expected. This includes new builds, refurbishments, expansions, and condition-improvement works.

### When to use it:

- When working on DfE-funded school projects.
- When the specification references DfE guidance.
- When you need to meet daylight compliance. The DfE mandates climate-based daylight modelling.

## CIBSE LG5 Lighting Guide 5: Lighting for Education

CIBSE LG5 (Lighting Guide 5: Lighting for Education) is the UK's principal technical guide for designing lighting in educational environments. It is published by the Society of Light and Lighting (SLL), part of the Chartered Institution of Building Services Engineers (CIBSE).

### When to use it:

- When designing lighting for any educational environment.
- When you need a UK education-industry accepted approach.
- When a specification references SLL/CIBSE guidance.
- When you need a UK education-industry best practice approach.

## BS EN 12464 1 – Lighting of Indoor Workplaces

BS EN 12464 1 is the British and European standard for lighting of indoor workplaces. It defines the minimum lighting requirements needed to ensure safety, comfort, productivity, and good visual performance in all types of indoor work environments. It sits within the broader EN 12464 standard series, with Part 1 covering indoor workplaces and Part 2 covering outdoor workplaces.

### When to use it:

- When you need a recognised compliance benchmark for workplace lighting.
- When specifications state that it must meet EN 12464-1.

# Key considerations for education lighting

Creating a high-quality educational environment requires a lighting strategy that balances longevity, sustainability, and technical performance.

The following guidance outlines the core lighting design considerations for education facilities, ensuring spaces are optimised for learning while meeting rigorous operational standards.

The Thorlux approach focuses on "future-proof" engineering, moving away from disposable fixtures toward serviceable, high-efficacy solutions. By adhering to these principles, educational institutions can achieve a lower total cost of ownership and a reduced environmental footprint.



## Durability and life expectancy

Sustainability in schools starts with product longevity. Thorlux luminaires are engineered for a minimum 25-year life expectancy, ensuring that the lighting infrastructure remains robust throughout the building's lifecycle.

## Circular economy and replaceability

In alignment with CIBSE TM66 requirements, luminaires must be designed to be serviceable, maintainable, and upgradable. To minimise waste and ensure ease of maintenance, DfE requirements state that the use of non-serviceable "flat panels" is prohibited. This ensures components can be replaced or upgraded as technology evolves without replacing the entire fixture

## Maximum efficacy and efficiency

Prioritising maximum efficacy ensures Thorlux luminaires deliver the highest light output for the lowest energy input. This focus on efficiency is designed to provide the minimum possible cost of ownership over the system's lifetime, reducing both energy bills and carbon emissions.

## Emergency compliance and safety

Safety is paramount in any learning environment. Our emergency lighting and control systems are fully compliant with the specific regulatory requirements for every type of space, from classrooms and laboratories to circulation areas and sports halls.

## Long-term reliability and warranties

To provide peace of mind and protect capital investment, all lighting and emergency systems—including batteries and controls—should be backed by a comprehensive 5-year manufacturer's warranty.

## Integrated lighting controls

Modern education spaces require flexible lighting. Thorlux control systems are tailored to meet the unique demands of each educational setting, ensuring compliant, user-friendly operation that enhances the learning experience.

## Lighting equipment

Lighting equipment for interior environments shall be provided in accordance with the criteria given in the table below:

### Extract from DfE - Technical Annex 2E

| Criteria | LED |
|---|---|
| Colour | **CCT: 3500-4000 K**<br>**CRI: >=80**<br>**MCAD: 3** |
| Efficacy | **In accordance with Part L** |
| Design Life | **Occupied spaces:**<br>**L80, B10 @ >= 50,000 hours, 25°C ambient** |
| Design Life | **Unoccupied spaces:**<br>**Rated life: 30,000 hours min**<br>**L70, B50 @ >= 30,000 hours, 25°C ambient** |
| Driver | **Power Factor: 0.9 min**<br>**Flicker factor: < 15%**<br>**Dimming range: 1-100% of measured output** |
| IP | **General Areas: IP2X WCs, science areas: IP44 Plants Space: IP65** |
| Luminaire Warranty Period | **5 years (including LEDs)** |




# Lighting management

# Lighting control

## SmartEco

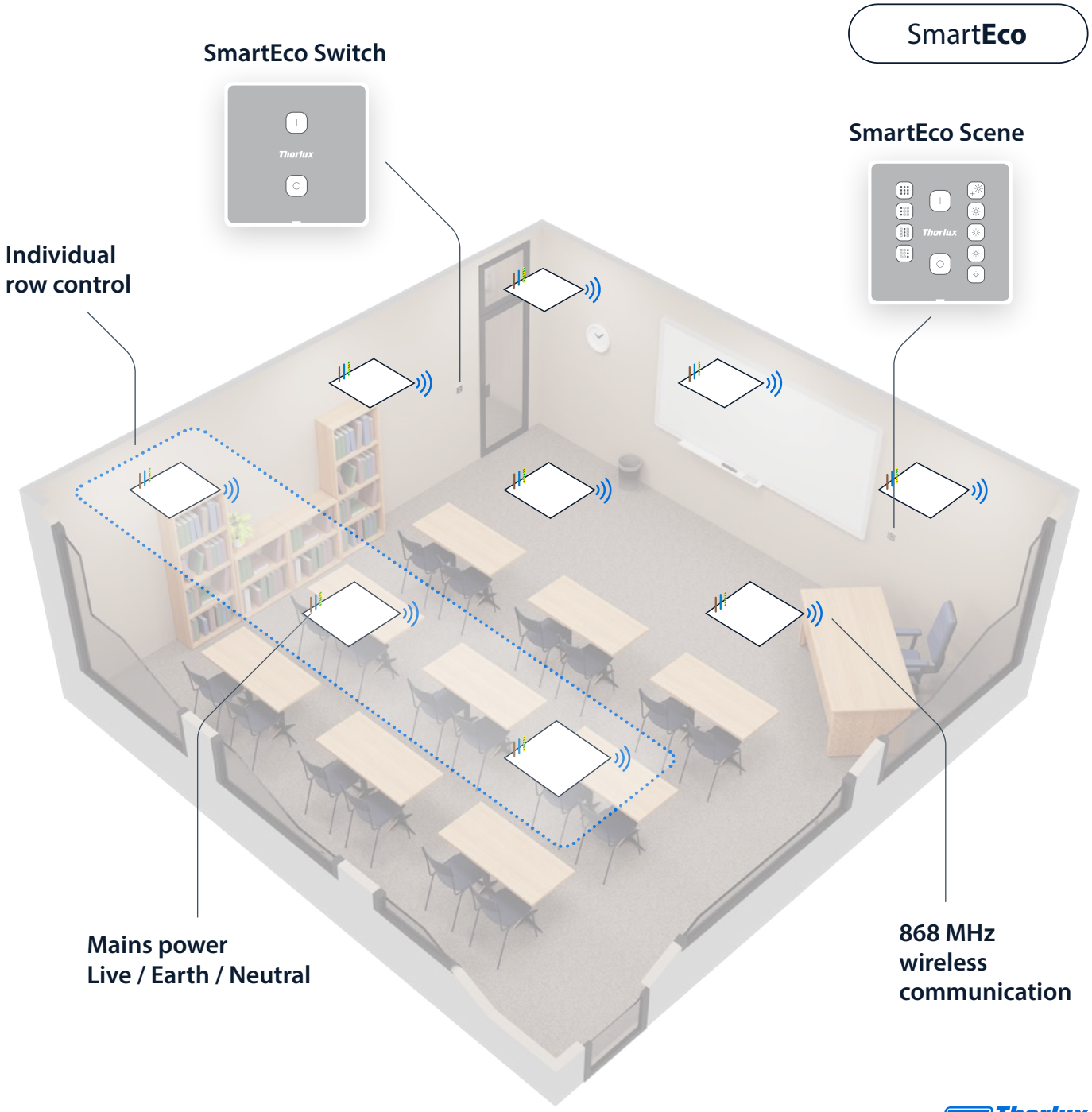
Wireless intelligence. Simply delivered.

SmartEco brings the power of Thorlux flagship technology to the classroom in its most intuitive form, ensuring full compliance while maintaining ultimate simplicity.

With discreet, integrated sensors in every luminaire, SmartEco continuously monitors occupancy and natural daylight to ensure optimal, maintained light levels throughout the space. By removing the need for separate sensing systems, it reduces installation complexity, lowers costs, and enables faster, more efficient project completion.

Utilising a secure and reliable 868 MHz frequency, SmartEco eliminates the need for complex data cabling, reducing installation complexity and visual clutter. With flexible options including mains or modular LCM wiring, it enables the deployment of a sophisticated lighting control network with the same ease as a standard circuit.

Responsive manual override switches allow individual rows to be selected instantly, enabling lighting levels to be tailored to suit different teaching activities. Designed with simplicity in mind, SmartEco establishes secure, room-by-room wireless groups, providing intuitive local control without the need for complex data reporting or external network infrastructure.



# Lighting control

## Why is SmartEco the lighting controls choice for education environments?

### Full Compliance

The SmartEco lighting controls system is designed to ensure full compliance with key UK standards for educational environments.

By incorporating intelligent features such as presence and absence detection, daylight linking, and automatic zoning, the system minimises energy consumption in line with Part L requirements. At the same time, it supports the functional needs outlined in DfE requirements, providing intuitive, flexible control that allows teachers to easily adjust lighting levels to suit different classroom activities.

### Manual Control

A simple on/off switch at the entrance and a dedicated scene switch at the whiteboard allow for whole-room dimming or individual row control - tailoring the light to the lesson.

### Individual Intelligence

A light sensor in every luminaire controls the output to suit local ambient conditions in order to meet the needs of individual users, or the requirements of the space.

### Maintained Illuminance

When daylight enters a room the SmartEco lighting management system will take this light into account and gradually dim the luminaires, saving energy whilst maintaining the required light level. As daylight increases, luminaire output decreases, minimising energy usage.

### Rapid Installation

A wireless 868 MHz architecture means no complex data cabling; just mains power to each unit and you're ready to go.





## SmartEco components

### SmartEco Scene

Scene control switches providing switching and dimming for the whole room or an individual row.




#### 4 row version

| Version | CAT. No. |
|---|---|
| Mains | ECO21541 |




#### 3 row version

| Version | CAT. No. |
|---|---|
| Mains | ECO21543 |

### SmartEco Switch

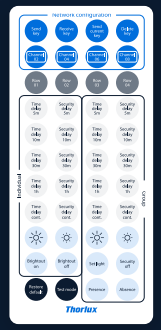
Simple on/off entry control switches.




| Version | CAT. No. |
|---|---|
| Mains | ECO21545 |

### SmartEco Programmer

Intuitive infrared handset designed for simple, manual commissioning.




| CAT. No. |
|---|
| ECO21256 |



Thorlux Lighting

# Lighting control

SmartEco

## SmartEco specification text

The lighting control system shall incorporate an integral presence/absence detector and daylight sensor within each luminaire and shall provide:

- Presence and/or absence detection.
- Daylight-linked dimming.
- Maintained illuminance control through automatic compensation for lumen depreciation.
- Automatic switching and dimming in response to occupancy and available daylight.
- Manual user override.
- Row-by-row lighting control where indicated in all teaching spaces.
- Local wireless grouping of luminaires.
- Wireless commissioning and system configuration.

The control system shall utilise wireless communication operating within the licence-exempt 868 MHz frequency band. No separate control wiring shall be required between luminaires.

The lighting control system shall support:

- Individual row control.
- Whole-room switching.
- Whole-room dimming.
- Group presence or absence detection with individually programmable time delays and security settings.

### Cyber security

The lighting control system shall employ AES-256 encryption, as a minimum, for wireless communications between control devices.

The system shall operate as a standalone lighting control system and shall not require connection to the client's IT network or internet services for normal lighting control operation.



**How to specify SmartEco?**

To specify SmartEco for your selected luminaire, suffix the product code with "**N**"

e.g. TGT21174**N**

# Emergency lighting

Emergency lighting provides illumination if the mains or local power supply fails, helping occupants evacuate a building safely. It must illuminate key safety locations including:

- Escape routes and exit signs
- Stairs, level changes, and changes in escape direction
- Corridor intersections
- Fire alarm call points, fire-fighting equipment, and first aid posts
- Outside final exits leading to a place of safety
- Toilets without borrowed light and accessible/ disabled toilets
- Plant, control, and generator rooms
- Refuges, disabled call points, and escape equipment
- Any additional areas identified through risk assessment

Under the Regulatory Reform (Fire Safety) Order 2005, early consultation between the building owner or occupier, designers, contractors, and enforcing authorities is recommended. The designated "responsible person" must carry out a risk assessment to identify risks to occupants and ensure appropriate measures are in place, including the provision and maintenance of emergency lighting.

## Two emergency lighting choices:

### Integral emergency:

- Choice of manual keyswitch or AutoTest
- No additional lighting points
- Emergency optics not optimized - potentially more emergency luminaires
- Increased maintenance
- Limited or no battery warranty

### Separate dedicated emergency:

- Choice of AutoTest or SmartScan* reporting systems
- Optimized optics, less overall emergency luminaires
- Additional wiring points
- Decreased maintenance
- Extended warranties, 5/10 year battery warranty

* Full details of SmartScan system available at www.thorlux.com | SmartScan functionality only available in separate dedicated luminaires | SmartScan gateway required | Not available on SmartEco controlled luminaires.

**Central battery systems available upon request**



# Emergency lighting

## Example emergency lighting solution for a school




A 

### Firefly -3 W / Area

**FZ3RAR**

Area optics are optimised for open spaces, providing sufficient illumination to the closest escape route.

B 

### Firefly - 4 W / Corner

**FZ4RCR**

Corner optics are designed for emergency escape route direction changes.

C 

### Firefly - 3 W / Corridor

**FZ3RCD**

Corridor optics achieve 1 lux escape route illumination with up to 23 m spacings.

D 

### Firefly - 4 W / Corridor+

**FZ4RCP**

Corridor+ optics provide the same escape route illumination as standard Corridor optics, but with the addition of point-of-emphasis lighting.

E 

### Firefly - 4 W / Area

**FZ4RAR**

Area optics in the 4 W version are optimised for open spaces with higher mountings, providing sufficient illumination to the closest escape route.

F 

### Hi-Style - 24 W / Low glare

**EHI21160E**

Where custom optics are not required, integral emergency options eliminate additional installation points.

G 

### Lexi - Arrow up legend

**ELX20826**

Illuminated emergency exit signs help occupants identify escape routes.

H 

### Lexi 65

**ELX20871**

IP65 rated bulkhead provides illumination on final exit locations.

# Sub-metering and integration

SMARTSCAN ANALYTICS

## Taking your building data further

SmartScan Analytics combines targeted sensing, system connectivity, and a cloud application layer to give estates teams clearer insight into how their buildings are used and performing.

It works alongside existing systems, using the SmartScan lighting network and selected integrations to make reliable building data easier to access and act on.





### Use existing infrastructure

Uses existing SmartScan lighting infrastructure and selective cloud integrations.



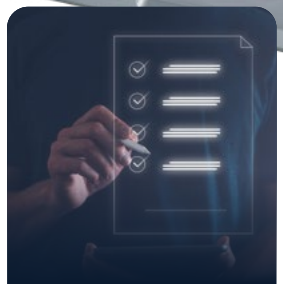
### Expand data capture

Adds targeted sensors to fill data gaps or enrich insights into areas of interest.



### Visualise and analyse

Provides a simple, configurable portal to visualise and analyse data. Works with existing systems.



### Informed decisions

Shows real-time and historical trends to support planning and operational decisions.

SSA IoT meters and data loggers provide accurate monitoring of gas, water, and electricity consumption, supporting both whole-site measurement and detailed electrical sub-metering at circuit level.

Consumption data is accessed through the SmartScan Analytics portal, giving direct visibility of consumption detail and usage patterns. The metering solution operates as a standalone system, without reliance on the lighting control system or existing site IT or operational networks.

This solution supports regulatory compliance, structured reporting, and performance benchmarking, and provides a reliable basis for identifying and validating energy efficiency improvements





Thorlux Lighting

# Sub-metering and integration

## How does SmartScan Analytics work?

Please get in touch to discuss your specific project requirements

Get in touch

SMARTSCAN ANALYTICS

Cloud platform



### Gateway / modem

Transmits collected data from on-site devices to the cloud platform for remote monitoring and analysis.

### Electricity



### MID meter

A certified electricity meter that provides revenue-grade, compliant energy readings for billing and reporting.



### CTs (Current Transformers)

Clamp onto electrical cables to safely measure current flow without interrupting the circuit.



### Electric meter

Measures the consumption at the point of use or supply.

### Water and Gas



### 8DI module (for pulse heads)

Collects multiple pulse signals from connected meters and converts them into usable digital data.



### Pulse heads

Convert mechanical meter movements into digital pulses so consumption can be recorded electronically.



### Water and gas meters

Measures the consumption at the point of use or supply.





Thorlux Lighting



# Design guidance



# Classrooms

Classrooms should provide a comfortable and supportive environment for learning, with effective lighting playing a key role in enhancing the overall user experience.

- Provide balanced illumination across horizontal and vertical surfaces, including walls, ceilings, and teaching surfaces such as whiteboards
- Ensure adequate cylindrical illuminance to support clear face-to-face communication
- Minimise glare to enhance visual comfort and reduce fatigue
- Enable flexible lighting control to support a range of activities, particularly presentations and screen-based tasks
- Incorporate controls that maintain consistent illuminance with daylight-responsive dimming, improving energy efficiency and extending luminaire lifetimes.

## Recommended products



**Hi-Style**



**Kanby Evo**



**Kanby Acoustic**

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**300 lux**

Horizontal Uniformity (Uo)
**0.6**

Cylindrical Illuminance (At 1.2 m)
**150 lux**

Cylindrical Illuminance (Uo)
**0.1**

Glare (UGR)
**≤19**

### CIBSE LG5

Horizontal Illuminance
**300 lux at desk height (500 lux for evening/adult/ practical)**

Uniformity (Uo)
**0.6**

Mean Cylindrical Illuminance
**150 lux at 1.2 m**

Wall Illumination
**50 % of horizontal or > 100 lux**

Ceiling Illumination
**30% of horizontal or >50 lux**

UGRL
**≤19**

### BS EN12464-1

Average Task/Activity Area Illuminance
**500 lux (300 lux may be suitable for young children)**

Uniformity (Uo)
**0.6**

Mean Cylindrical Illuminance (Section 4.6.2)
**150 lux**

Vertical illumination on board
**200 lux**

Wall Illumination
**150 lux**

Ceiling Illumination
**100 lux**

UGRL
**≤19**

## Lighting management compliance

### Lighting controls

Types of space
**Basic Teaching spaces (including classrooms); staff rooms; independent life skills rooms (in special schools)**

Description
**Temporary or permanently owned rooms for larger groups**

CIBSE category reference
**Owned spaces**

Control method
**Manual on, absence off, daylight dimmed (only in a daylit space)**

**Design considerations**

- Minimum 2 sensors per room to cover all usable space
- Manual control to override automatic control is required
- Individual row dimming

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Points of emphasis must be illuminated to minimum emergency lux requirements in accordance with BS 5266-1:2025

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

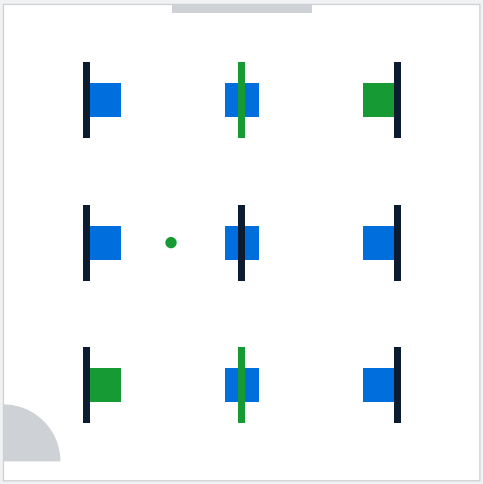
Minimum 3 hour illumination

# General / SEN classrooms

## 58m² classroom

| | |
|---|---|
| Reflections - Ceiling | 70% |
| Reflections - Wall | 50% |
| Reflections - Floor | 20% |
| Maintenance Factor | 0.8 |

### Typical classroom layout



General luminaire

Integral emergency luminaire *(if required)*

Firefly emergency luminaire *(if required)*

Department for Education



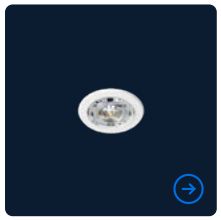
**Hi-Style**



**Kanby Evo**



**Kanby Acoustic**



**Firefly**

| Classrooms and tutorial rooms | | Hi-Style 24 W / LG7 optic | Kanby Evo 22 W / LG7 optic | Kanby Acoustic 22 W / LG7 optic |
|---|---|---|---|---|
| Illuminance | 300 lux | 318 lux | 381lux | 371lux |
| Uniformity | 0.6 | 0.67 | 0.66 | 0.66 |
| Glare (UGR) | 19 | 18.2 | 17.3 | 17.3 |
| Cylindrical | 150 lux | 169 lux | 156lux | 151lux |

| Evening classes and adult education | | Hi-Style 29 W / LG7 optic | Kanby Evo 36 W / LG7 optic | Kanby Acoustic 36 W / LG7 optic |
|---|---|---|---|---|
| Illuminance | 500 lux | 505 lux | 549 lux | 535 lux |
| Uniformity | 0.6 | 0.82 | 0.66 | 0.66 |
| Glare (UGR) | 19 | 19.0 | 18.6 | 18.6 |
| Cylindrical | 150 lux | 196 lux | 225 lux | 218 lux |

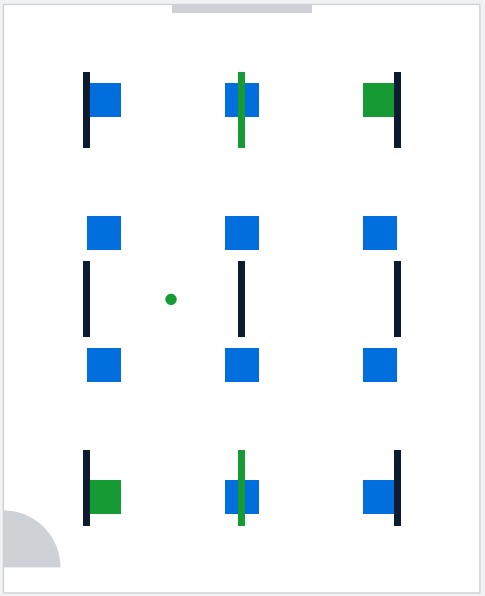
| Emergency lighting | | Hi-Style (Emergency) 24 W / LG7 optic | Kanby Evo (Emergency) 22 W / LG7 optic | Kanby Acoustic (Emergency) 22 W / LG7 optic | Firefly 3 W / Area optic |
|---|---|---|---|---|---|
| Floor exit routes | 1 lux | 22.19 lux max 1.2 lux min 1:18 Ud | 19.9 lux max 1.42 lux min 1:14 Ud | 19.9 lux max 1.42 lux min 1:14 Ud | 3.75 lux max 0.99 lux min 1:3.8 Ud |
| Open area anti panic | Min. 0.5 lux | | | | |
| Ud | >1:40 | | | | |

# Art and science classrooms

## 70m² classroom

| | |
|---|---|
| Reflections - Ceiling | 70% |
| Reflections - Wall | 50% |
| Reflections - Floor | 20% |
| Maintenance Factor | 0.8 |

### Typical classroom layout



General luminaire

Integral emergency luminaire *(if required)*

Firefly emergency luminaire *(if required)*

Department for Education



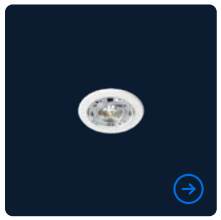
**Hi-Style**



**Kanby Evo**



**Kanby Acoustic**



**Firefly**

| **Classrooms and tutorial rooms** | | **Hi-Style 16 W / LG7 optic** | **Kanby Evo 36 W / LG7 optic** | **Kanby Acoustic 36 W / LG7 optic** |
|---|---|---|---|---|
| Illuminance | 300 lux | 374 lux | 388 lux | 380 lux |
| Uniformity | 0.6 | 0.88 | 0.82 | 0.88 |
| Glare (UGR) | 19 | 18.1 | 17.7 | 17.7 |
| Cylindrical | 150 lux | 150 lux | 154 lux | 150 lux |

| **Evening classes and adult education** | | **Hi-Style 24 W / LG7 optic** | **Kanby Evo 36 W / LG7 optic** | **Kanby Acoustic 36 W / LG7 optic** |
|---|---|---|---|---|
| Illuminance | 500 lux | 503 lux | 553 lux | 539 lux |
| Uniformity | 0.6 | 0.79 | 0.82 | 0.81 |
| Glare (UGR) | 19 | 19.0 | 18.9 | 18.9 |
| Cylindrical | 150 lux | 198 lux | 219 lux | 213 lux |

| **Emergency lighting** | | **Hi-Style (Emergency) 22 W / LG7 optic** | **Kanby Evo (Emergency) 36 W / LG7 optic** | **Kanby Acoustic (Emergency) 36 W / LG7 optic** | **Firefly 3 W / Area optic** |
|---|---|---|---|---|---|
| Floor exit routes | 1 lux | 22.4 lux max<br>0.69 lux min<br>1:32 Ud | 19.7 lux max<br>1.02 lux min<br>1:19 Ud | 19.7 lux max<br>1.02 lux min<br>1:19 Ud | 3.75 lux max<br>0.96 lux min<br>1:3.9 Ud |
| Open area anti panic | Min. 0.5 lux | | | | |
| Ud | >1:40 | | | | |

# Acoustic absorption performance

Building Bulletin 93 'Acoustic design of schools: performance standards, February 2015' (BB93) sets out design requirements for mid-frequency reverberation times (Tmf – the arithmetic average of the reverberation times at 500Hz, 1kHz and 2kHz). The requirement for secondary school classrooms, science labs and technology areas is ≤0.8s Tmf for new build and ≤1.0s Tmf for refurbishement projects.

Example

## Secondary school classroom

A secondary school classroom with a floor area of 58 m² and has been treated with 9 Kanby Acoustic luminaires resulting in a reverberation time of 0.86 Tmf.

New build target RT – ≤0.8 Tmf*
Refurbishment target RT – ≤1.0 Tmf*
**Result RT – 0.86 Tmf***

In summary, in a refurbishment application 9 Kanby Acoustic luminaires would achieve compliance. In a new build application, compliance is achieved by adding an additional 3 m² Class A acoustic panelling.

*Furniture not included. Reverberation time will decrease further with furniture.
RT = Reverberation Time (Seconds) / Tmf = Mid-frequency Reverberation Time

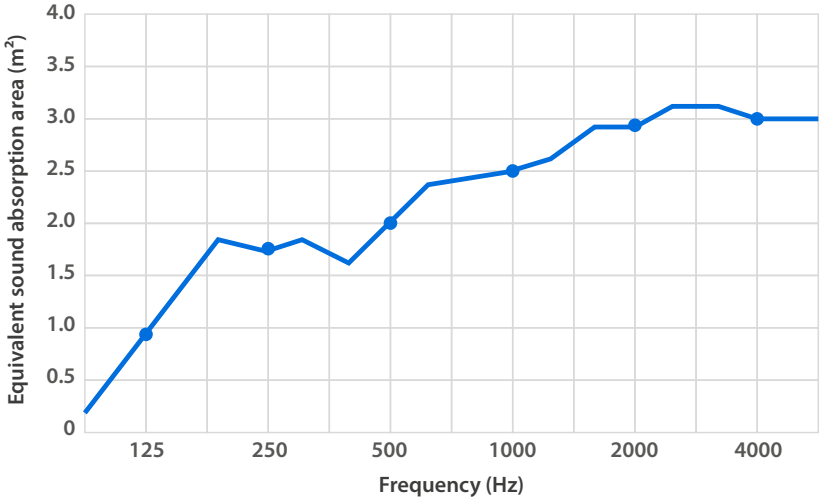
### New build application - Kanby Acoustic luminaires suspended 400 mm below the soffit

| Teaching room | Floor area | Floor finish | No. of luminaires | Additional Class A wall panels required |
|---|---|---|---|---|
| Small classroom | 58 m² | Carpet | 9 | 3 m² |
| Small classroom | 58 m² | Vinyl | 9 | 9 m² |
| Large classroom | 70 m² | Carpet | 9 | 8 m² |
| Large classroom | 70 m² | Vinyl | 9 | 16 m² |



The acoustic performance of Kanby Acoustic has been independently tested at SRL (Sound Research Laboratories). Acoustic performance is measured as the rate of reverberation decay over a specific time period; the faster the sound decays, the lower the reverberation time and the better the acoustic properties of the space.

### Equivalent sound absorption per Kanby Acoustic




Kanby Acoustic has been acoustically tested in accordance with BS EN ISO 354 for its equivalent sound absorption coefficient.

More detailed acoustic data for the Kanby Acoustic is available upon request from our Technical Department.




# Circulation spaces and stairs

Corridors and circulation areas must be functional to help pupils, staff, and visitors find their way efficiently and safely, even if unfamiliar with the building.

In addition to general lighting, luminaires may have to provide wall illumination, highlighting signage, artwork and displays.

Stairs need to be well-lit to avoid accidents. It is vital to provide lighting which ensures that staircase treads and risers are well-defined.

## Recommended products



**Dot**



**G3 Evo**



**Kanby Evo**

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**100 lux**

Horizontal Illuminance (Uo)
**0.4**

Cylindrical Illuminance (At 1.2 m)
**50 lux**

Cylindrical Illuminance (Uo)
**0.1**

Glare (UGR)
**≤25**

### CIBSE LG5

Horizontal Illuminance
**100 lux (150 lux for stairs)**

Uniformity (Uo)
**0.4**

UGRL
**≤25**

### BS EN12464-1

Average Task/Activity Area Illuminance
**100 lux (150 lux for stairs)**

Mean Cylindrical Illuminance (Section 4.6.2)
**50 lux**

Wall Illumination
**50 lux**

Ceiling Illumination
**30 lux**

UGRL
**≤25**

## Lighting management compliance

### Lighting controls

Types of space
**Daylit circulation areas (including corridors, stairs and lobbies)**

Description
**Transient spaces**

CIBSE category reference
**Un-owned spaces**

Control method
**Presence on, absence off, daylight off (only in a daylit space)**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Entrance halls

Entrance halls should provide a seamless transition between the external and internal environment, with lighting designed to support visual adaptation as occupants move between different light levels.

Feature lighting can be used to highlight displays or branding elements, while avoiding glare on screens and reflective surfaces. This should be complemented by high-quality general lighting, with good vertical illumination to ensure clear visibility of faces; supporting welcoming, comfortable interactions between visitors and reception staff.

## Recommended products



**Dot**



**G3 Evo**



**Clara 720**

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**100 lux**

Horizontal Illuminance (Uo)
**0.4**

Cylindrical Illuminance (At 1.2 m)
**50 lux**

Cylindrical Illuminance (Uo)
**0.1**

Glare (UGR)
**≤22**

### CIBSE LG5

Horizontal Illuminance
**200 lux**

Uniformity (Uo)
**0.4**

UGRL
**≤22**

### BS EN12464-1

Average Task/Activity Area Illuminance
**200 lux**

Mean Cylindrical Illuminance (Section 4.6.2)
**75 lux**

Wall Illumination
**75 lux**

Ceiling Illumination
**50 lux**

UGRL
**≤22**

## Lighting management compliance

### Lighting controls

Types of space
**Daylit circulation areas (including corridors, stairs and lobbies)**

Description
**Transient spaces**

CIBSE category reference
**Un-owned spaces**

Control method
**Presence on, absence off, daylight off (only in a daylit space)**

### Design considerations

- Good sensor detection required
- Daylight dimming to be used where necessary

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Sports / multi-purpose halls

School halls are typically multi-functional spaces, accommodating activities such as sports, assemblies, performances, and presentations. As a result, lighting design must be flexible, supporting a range of uses rather than the more specialised requirements of a dedicated sports facility.

General lighting should provide uniform illuminance with good colour rendering and effective glare control, ensuring a comfortable environment for both active and seated activities. The use of a lighting control system allows for pre-set and easily adjustable lighting scenes, enabling the space to be adapted quickly to suit different uses.

Durability is also an important consideration, particularly where sporting activities take place. Luminaires should be selected and installed to withstand impact, with compliance to relevant standards such as the DIN 57710-13 ball impact test (or equivalent) recommended to ensure robustness and longevity.

## Recommended products



Visio Sport



Thoroproof

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**300 lux**

Horizontal Illuminance (Uo)
**0.6**

Cylindrical Illuminance (At 1.2 m)
**100 lux**

Cylindrical Illuminance (Uo)
**0.1**

Glare (UGR)
**≤19**

### CIBSE LG5

Horizontal Illuminance
**300 lux**

Uniformity (Uo)
**0.6**

UGRL
**≤22**

### BS EN12464-1

Average Task/Activity Area Illuminance
**300 lux**

Mean Cylindrical Illuminance (Section 4.6.2)
**100 lux**

Wall Illumination
**75 lux**

Ceiling Illumination
**30 lux**

UGRL
**≤22**

## Lighting management compliance

### Lighting controls

Types of space
**Halls and indoor PE spaces; dining and social areas; LRCs**

Description
**Spaces where individuals do not expect to control the lighting**

CIBSE category reference
**Managed spaces**

Control method
**Key switch staff control with override on; presence on, daylight dimming (only in a daylit space) and absence off**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Library and study spaces

When designing lighting for libraries, two primary tasks must be considered: locating materials and supporting reading or study.

Finding books relies on adequate vertical illuminance, typically around 200 lux on the spine, recognising that shelving can extend from floor level to above head height. In reading and study areas, which often include screens and digital devices, lighting should prioritise visual comfort by minimising glare and reflections, while providing consistent, well-balanced illumination to support prolonged concentration.

## Recommended products



Kanby Evo



Hi-Style



G3 Evo

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**300 lux (200 lux for shelving)**

Horizontal Illuminance (Uo)
**0.6**

Cylindrical Illuminance (At 1.2 m)
**150 lux**

Cylindrical Illuminance (Uo)
**0.1**

Glare (UGR)
**≤19**

### CIBSE LG5

Horizontal Illuminance
**500 lux (200 lux for bookshelves)**

Uniformity (Uo)
**0.6**

UGRL
**≤19**

### BS EN12464-1

Average Task/Activity Area Illuminance
**500 lux (200 lux for bookshelves)**

Uniformity (Uo)
**0.6 (0.4 for common rooms)**

Mean Cylindrical Illuminance (Section 4.6.2)
**100 lux**

Wall Illumination
**100 lux**

Ceiling Illumination
**50 lux**

UGRL
**≤19**

## Lighting management compliance

### Lighting controls

Types of space
**Halls and indoor PE spaces; dining and social areas; LRCs**

Description
**Spaces where individuals do not expect to control the lighting**

CIBSE category reference
**Managed spaces**

Control method
**Key switch staff control with override on; presence on, daylight dimming (only in a daylit space) and absence off**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Kitchen preparation areas

Lighting in kitchen environments should be designed to meet relevant hygiene, safety, and energy efficiency standards, while ensuring ease of maintenance and reliable performance.

Appropriate lighting controls can support compliance with energy regulations, while maintaining consistent illumination for safe food preparation and operation.

Luminaires used in kitchen areas should have suitable ingress protection and designed for ease of cleaning, in line with hygiene requirements. Fixtures installed in demanding locations, such as above cooking equipment, must be capable of operating in elevated ambient temperatures and be sealed to withstand steam, grease, and condensation, ensuring long-term durability and performance.

## Recommended products



**Cleanline**



**Thoroproof**

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**500 lux**

Horizontal Illuminance (Uo)
**0.6**

Cylindrical Illuminance (At 1.2 m)
**N/A**

Cylindrical Illuminance (Uo)
**N/A**

Glare (UGR)
**≤22**

### CIBSE LG5

Horizontal Illuminance
**500 lux**

Uniformity (Uo)
**0.6**

UGRL
**≤22**

### BS EN12464-1

Average Task/Activity Area Illuminance
**500 lux**

Mean Cylindrical Illuminance (Section 4.6.2)
**100 lux**

Wall Illumination
**100 lux**

Ceiling Illumination
**75 lux**

UGRL
**≤22**

## Lighting management compliance

### Lighting controls

Types of space
**Storage (excluding preparation); dark rooms; control rooms; sensory rooms; kiln rooms; kitchen preparation areas; other kitchen areas; plant area**

Description
**Infrequently used areas or temporarily owned spaces**

CIBSE category reference
**Un-owned or temporarily owned spaces**

Control method
**Manual on, manual off**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

Minimum 15 lux illuminance at the point of interest or reference plane

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Dining and social areas

Lighting in dining areas should create a welcoming and comfortable atmosphere while still providing sufficient illumination for busy, high-traffic use.

Consideration should also be given to whether the space serves multiple functions, with flexible lighting solutions and controls selected to adapt easily to different activities and settings.

## Recommended products



Kanby Evo



Hi-Style



Clara 720

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**200 lux**

Horizontal Illuminance (Uo)
**0.4**

Cylindrical Illuminance (At 1.2 m)
**50 lux**

Cylindrical Illuminance (Uo)
**0.1**

Glare (UGR)
**≤22**

### CIBSE LG5

Horizontal Illuminance
**200 lux**

Uniformity (Uo)
**0.4**

UGRL
**≤22**

### BS EN12464-1

Average Task/Activity Area Illuminance
**200 lux**

Uniformity (Uo)
**0.6**

Mean Cylindrical Illuminance (Section 4.6.2)
**75 lux**

Wall Illumination
**75 lux**

Ceiling Illumination
**50 lux**

UGRL
**≤22**

## Lighting management compliance

### Lighting controls

Types of space
**Halls and indoor PE spaces; dining and social areas; LRCs**

Description
**Spaces where individuals do not expect to control the lighting**

CIBSE category reference
**Managed spaces**

Control method
**Key switch staff control with override on; presence on, daylight dimming (only in a daylit space) and absence off**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (anti-panic) - areas under 60 $m^2$ should be risk assessed

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Toilets and changing

Lighting in toilet areas should provide bright, uniform, and glare-free illumination throughout the space, including within cubicles, to ensure comfort, safety, and good visibility.

A separately controlled luminaire should be provided at the mirror, typically above the washbasin, to deliver soft, diffuse lighting that supports tasks such as handwashing without creating harsh shadows.

Where required, luminaires should have appropriate ingress protection in line with their location within the space, ensuring safe and reliable operation in environments where moisture and splashing may occur.

## Recommended products



G3 Evo



Thoroproof

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**100 lux**

Horizontal Illuminance (Uo)
**0.4**

Cylindrical Illuminance (At 1.2 m)
**N/A**

Cylindrical Illuminance (Uo)
**N/A**

Glare (UGR)
**≤25**

### CIBSE LG5

Horizontal Illuminance
**200 lux**

### BS EN12464-1

Average Task/Activity Area Illuminance
**200 lux**

Uniformity (Uo)
**0.4**

Mean Cylindrical Illuminance (Section 4.6.2)
**75 lux**

Wall Illumination
**75 lux**

Ceiling Illumination
**50 lux**

UGRL
**≤22**

## Lighting management compliance

### Lighting controls

Types of space
**Toilets and hygiene rooms; changing rooms; non-daylit circulation areas**

Description
**Transient spaces**

CIBSE category reference
**Un-owned spaces**

Control method
**Presence on, absence off**

### Emergency

Minimum 1 lux on escape routes

Toilet facilities and changing rooms exceeding 8 $m^2$ gross floor area should be provided with open area (anti-panic) lighting

Accessible toilets, a minimum of 1 lux horizontal illuminance should be provided on the floor

For toilet alarms, a minimum of 5 lux vertical illuminance should be provided

Points of emphasis must be illuminated to minimum emergency lux requirements in accordance with BS 5266-1:2025

Minimum 3 hour illumination



# Office and admin areas

Effective office and administrative lighting balances technical compliance with user wellbeing, creating environments that support both performance and comfort.

A successful scheme provides consistent illumination on the task plane to support focused work, while utilising low-glare luminaires (UGR<19) to prevent eye strain and screen reflections. To ensure the environment remains adaptable, incorporating manual override controls allows staff to tailor light levels to their specific needs, creating a comfortable, productive, and energy-efficient workspace.

## Recommended products



Kanby Evo



Hi-Style

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**300 lux**

Horizontal Illuminance (Uo)
**0.6**

Cylindrical Illuminance (At 1.2 m)
**N/A**

Cylindrical Illuminance (Uo)
**N/A**

Glare (UGR)
**≤19**

### CIBSE LG5

Horizontal Illuminance
**300 lux**

Uniformity (Uo)
**0.6**

UGRL
**≤19**

### BS EN12464-1

Average Task/Activity Area Illuminance
**300 lux (500 lux writing, typing, data processing)**

Mean Cylindrical Illuminance (Section 4.6.2)
**150 lux**

Wall Illumination
**75 lux**

Ceiling Illumination
**50 lux**

UGRL
**≤19**

## Lighting management compliance

### Lighting controls

Types of space
**Administration offices; staff areas; SEN and support spaces; arts learning resources and study areas; Primary School libraries; preparation rooms**

Description
**Temporary or permanently owned rooms for individuals and small groups**

CIBSE category reference
**Owned spaces**

Control method
**Manual on, absence off**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Storage / server / plant rooms

Appropriate lighting in utility spaces is essential for safety, maintenance, and operational efficiency.

In storage areas, lighting should be designed to provide sufficient illumination on racking and shelving, ensuring items can be easily located and handled safely. Server and data rooms benefit from well-considered vertical illumination to support the inspection and maintenance of equipment racks, alongside careful control of glare.

In plant rooms, lighting must enable clear visibility of control panels, pipework, and potential hazards, supporting safe navigation and maintenance activities. Luminaires should be robust and, where required, appropriately ingress protection to protect against dust, moisture, and other environmental conditions, ensuring reliable long-term performance.

## Recommended products



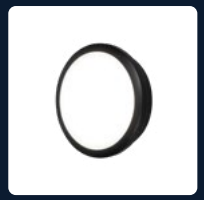
**Thoroproof**



**Kanby Evo**



**Hi-Style**



**Prismalette 360**

## General lighting compliance

### DFE

Horizontal Illuminance (Em lx)
**100 lux (200 lux for server / plant rooms)**

Horizontal Illuminance (Uo)
**0.4**

Cylindrical Illuminance (At 1.2 m)
**N/A**

Cylindrical Illuminance (Uo)
**N/A**

Glare (UGR)
**≤25 (≤22 for server / plant rooms)**

### CIBSE LG5

Horizontal Illuminance
**100 lux**

Uniformity (Uo)
**0.4**

UGRL
**≤25**

### BS EN12464-1

Average Task/Activity Area Illuminance
**100 lux (200 lux for plant rooms)**

Uniformity (Uo)
**0.4**

Mean Cylindrical Illuminance (Section 4.6.2)
**50 lux**

Wall Illumination
**50 lux**

Ceiling Illumination
**30 lux**

UGRL
**≤25**

## Lighting management compliance

### Lighting controls

Types of space
**Storage (excluding preparation); dark rooms; control rooms; sensory rooms; kiln rooms; kitchen preparation areas; other kitchen areas; plant area**

Description
**Infrequently used areas or temporarily owned spaces**

CIBSE category reference
**Un-owned or temporarily owned spaces**

Control method
**Manual on, manual off**

### Emergency

Minimum 1 lux on escape routes

Minimum 0.5 lux for open areas (areas under 60 $m^2$ should be risk assessed)

Minimum 15 lux illuminance at the point of interest or reference plane

High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)

Exit signage required for all points on escape routes

Minimum of 2 emergency luminaires per compartment

Minimum 3 hour illumination



# Exterior

When designing exterior lighting for schools, the first consideration is to create a feeling of safety and security for pupils and staff.

Lighting should clearly define entrances, pathways, and key features, enhancing wayfinding while contributing positively to the overall appearance of the site. Lighting controls can ensure lighting operates only when required, supporting both safety and protecting the night-time environment.

External areas such as car parks and drop-off zones must be adequately illuminated to allow safe movement of vehicles, including staff cars and school buses, while also supporting site security. Luminaires should be robust and suitably weatherproof, often column-mounted where appropriate, to ensure reliable performance in all conditions.

## Recommended products



**Starbeam**



**Realta**



**Prismalette 360**



**Lexi-65**

## General lighting compliance

| DFE | Horizontal Illuminance (Em lx) | Horizontal Illuminance (Uo) | Horizontal Illuminance WP Height (m) | Glare (UGR) |
|---|---|---|---|---|
| Walkways exclusively for pedestrians | 5 lux | 0.25 | 0 | 50 |
| Traffic areas for slowly moving vehicles (max 10 km/h e.g., bicycles) | 10 lux | 0.40 | 0 | 50 |
| Pedestrian passages, vehicle turning, loading and unloading points | 50 lux | 0.40 | 0 | 50 |
| Parking areas | 10 lux | 0.25 | 0 | 50 |
| Security | 5 lux | 0.25 | 0 | 50 |
| External Plant Areas and Walkways | 50 lux | 0.40 | 0 | 50 |

## Exterior lighting considerations

### Considerations

**Minimise Obtrusive Light**
Ensure light spill is strictly controlled, particularly in ecologically or residentially sensitive areas.

**Precision Optical Design**
Utilise luminaires with high-quality optics to ensure precise light distribution and glare control.

**Site-Specific Integration**
Develop designs that are sympathetic to the surrounding environment and local character.

**Dark Sky Preservation**
Minimise upward light distribution to reduce sky glow and protect the nocturnal landscape.

**Intelligent Automation**
Incorporate automated controls, such as SmartScan External, to reduce energy consumption and mitigate light pollution.

### Emergency

Emergency illumination provided near to each final exit and outside the building to a place of ultimate safety. This route should form an integral part of the escape route

Existing installations that use external streetlights to illuminate external exits should be reassessed to confirm whether the streetlights are always illuminated when the premises are in use

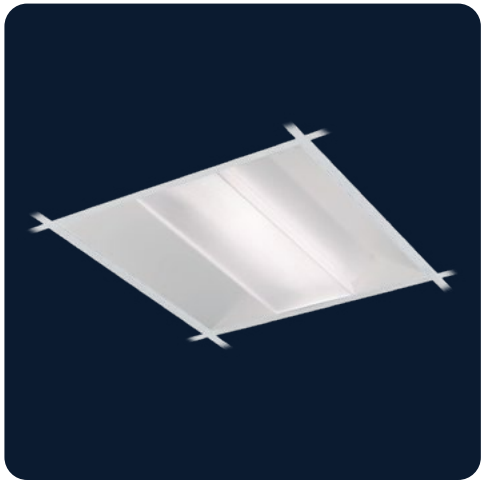
High risk lighting 10% normal lighting levels, or 15 lux (which ever is greater)



# Products

# Hi-Style

IP40 (IP20 above ceiling) | Up to 150.4 LL/CW | LUXGUARD | TM66 circularity score 2.7



## High performance recessed luminaires

- Low glare optics for EN12464-1 / LG7 (<3000cd/m² @ 65°) or opal diffuser option
- Excellent wall and vertical illumination
- Balanced direct/indirect luminance control above 65°
- Suitable for most ceiling types; lay-in or pull up with optional side arm suspensions accessible from below
- Extruded side diffusers give vibrant yet low glare aesthetics
- Designed to exclude dust, dirt and flies

## Specification

| | |
|---|---|
| **Nominal size** | 600 x 600 mm |
| **IP rating** | IP40 (IP20 above ceiling) |
| **Lumen outputs** | Low glare 16 W - 2,710 lm<br>Low glare 24 W - 3,750 lm<br>Low glare 29 W - 4,445 lm<br>Low glare 34 W - 5,265 lm<br>Opal 16 W - 2,560 lm<br>Opal 24 W - 3,550 lm<br>Opal 29 W - 4,165 lm<br>Opal 34 W - 5,050 lm |
| **Rated life (hours)** | 100 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

## Range

| LED power | Emergency system (optional) | Low glare | Opal | Lighting control system |
|---|---|---|---|---|
| 16 W | **T / E** | **HI21431** | **HI21430** | **N / A / L** |
| 24 W | **T / E** | **HI21160** | **HI21162** | **N / A / L** |
| 29 W | **T / E** | **HI21161** | **HI21163** | **N / A / L** |
| 34 W | **T / E** | **HI21433** | **HI21432** | **N / A / L** |

**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

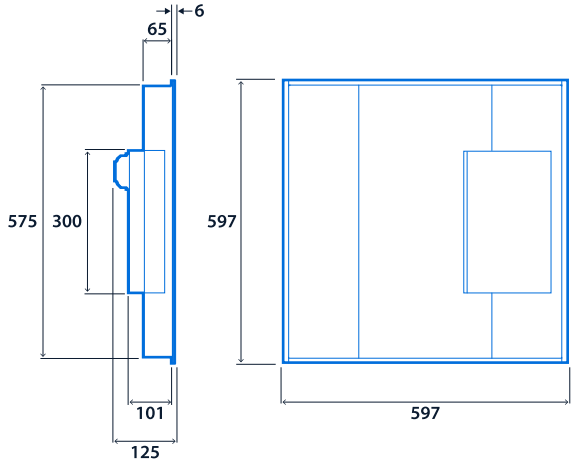
E.g. **THI21431N** = 16 W / AutoTest Emergency / Low glare / SmartEco

Modular wiring available upon request.

## Accessories

| Description | CAT. No. |
|---|---|
| Side arm suspension kit - 4 arms per kit - Not required for lay-in mounting | **HI20250** |

## Dimensions



# Kanby Evo

IP40 | Up to 138.8 LL/CW | LUX GUARD



## Narrow body LED controller luminaires

- Polycarbonate diffuser: Carefully controlled nanoprism optic version for EN12464-1 / LG7 (<3000 cd/m² @ 65°) compliance or opal version
- Fire-retardant external plastic parts
- Designed to exclude dust, dirt and flies

## Specification

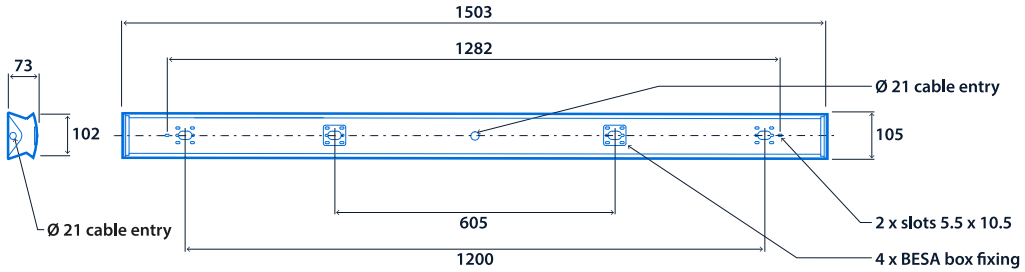
| | |
|---|---|
| **Nominal size** | 1200 mm / 1500 mm |
| **IP rating** | IP40 |
| **Lumen outputs** | **1200 mm**<br>Low glare 15 W - 2,280 lm<br>Low glare 26 W - 3,860 lm<br>Opal 15 W - 2,190 lm<br>Opal 26 W - 3,705 lm<br>**1500 mm**<br>Low glare 22 W - 3,470 lm<br>Low glare 36 W - 5,490 lm<br>Low glare 43 W - 6,510 lm<br>Opal 22 W - 3,330 lm<br>Opal 36 W - 5,270 lm<br>Opal 43 W - 6,250 lm |
| **Rated life (hours)** | 90 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

## Range

| Nominal size | LED power | Emergency system (optional) | Low glare | Opal | Lighting control system |
|---|---|---|---|---|---|
| 1200 mm | 15 W | **T / E** | **KE21437** | **KE21436** | **N / A / L** |
| | 26 W | **T / E** | **KE21439** | **KE21438** | **N / A / L** |
| 1500 mm | 22 W | **T / E** | **KE21165** | **KE21167** | **N / A / L** |
| | 36 W | **T / E** | **KE21166** | **KE21168** | **N / A / L** |
| | 43 W | **T / E** | **KE21178** | **KE21179** | **N / A / L** |

**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming
E.g. **TKE21437N** = 15 W / AutoTest Emergency / Low glare / SmartEco

## Dimensions




## Accessories

| Description | CAT. No. |
|---|---|
| Wire suspension kit - 3 m length | **KE18195** |

# Kanby Acoustic

IP40 | Up to 138.8 LL/CW | LUXGUARD



## Acoustic attenuation LED luminaires

- Polycarbonate diffuser: Carefully controlled nanoprism optic version for EN12464-1 / LG7 (<3000 cd/m² @ 65°) compliance or opal version
- Fire-retardant external plastic parts
- Designed to exclude dust, dirt and flies
- Supplied with 3 m suspension kit

## Specification

| | |
|---|---|
| **Nominal size** | 1500 mm |
| **IP rating** | IP40 |
| **Lumen outputs** | Low glare 22 W - 3,470 lm<br>Low glare 36 W - 5,490 lm<br>Opal 22 W - 3,330 lm<br>Opal 36 W - 5,270 lm |
| **Rated life (hours)** | 90 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

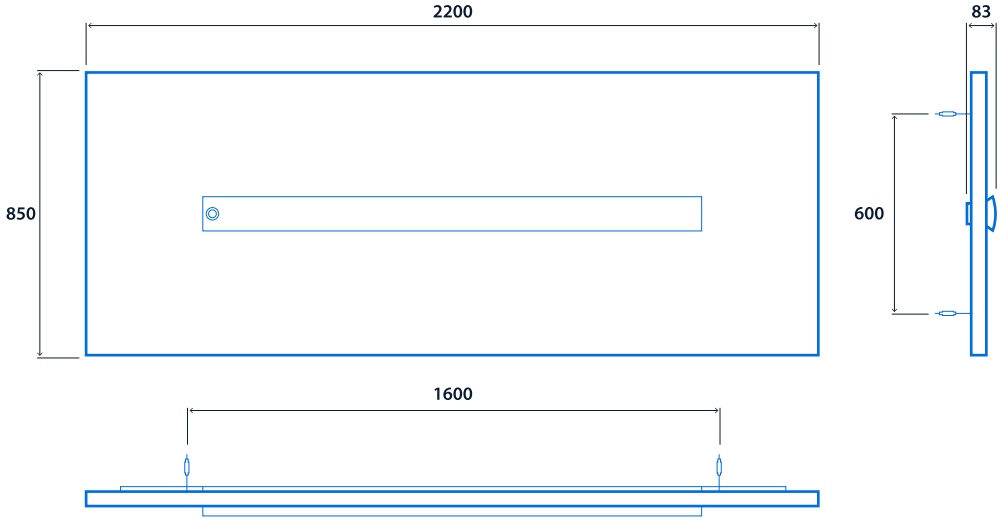
## Range

| LED power | Emergency system (optional) | Low glare | Opal | Lighting control system |
|---|---|---|---|---|
| 22 W | **T / E** | **KA21324** | **KA21327** | **N / A / L** |
| 36 W | **T / E** | **KA21325** | **KA21328** | **N / A / L** |
| 43 W | **T / E** | **KA21326** | **KA21329** | **N / A / L** |

**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

E.g. **TKA21327N** = 22 W / AutoTest Emergency / Low glare / SmartEco

## Dimensions



# G3 Evo

IP40 / IP66 (IP20 above ceiling) | Up to 152.5 LL/CW | LUXGUARD


White IP40 version with SmartEco


White IP66 version

## Circular LED recessed downlighters

- High-efficiency downlighters with optional integral sensor
- Industry-leading TM66 score of 2.9 for a downlight - LIA/CIBSE certification scheme TSD-012 verified

## Specification

| | |
|---|---|
| IP rating | IP40 / IP66 (IP20 above ceiling) |
| Lumen outputs | **IP40**<br>8 W - 1,475 lm<br>12 W - 2,135 lm<br>18 W - 3,005 lm<br>**IP66**<br>8 W - 1,370 lm<br>12 W - 1,985 lm<br>18 W - 2,805 lm |
| Rated life (hours) | 100 K - L80/B10 |
| Colour temperature | 4000 K |
| LED protection | LUX Guard |

## Range

| LED power | Emergency system (optional) | IP40 version | IP66 version | Lighting control system |
|---|---|---|---|---|
| 8 W | **T / E** | **GT21174** | **GT21316** | **N / A / L** |
| 12 W | **T / E** | **GT21175** | **GT21317** | **N / A / L** |
| 18 W | **T / E** | **GT21176** | **GT21318** | **N / A / L** |

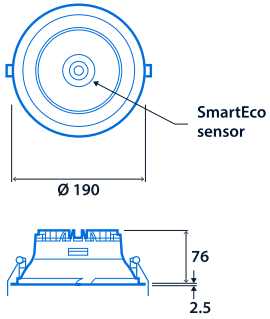
**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

E.g. **TGT21174N** = 8 W / AutoTest Emergency / SmartEco

Modular wiring available upon request.

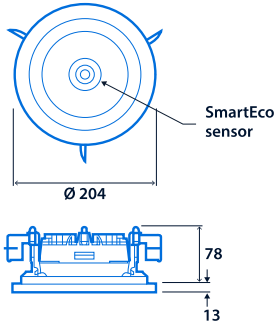
## Dimensions

**IP40**



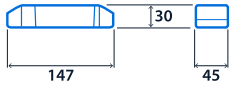

Cut-out - Ø 175
Maximum ceiling thickness - 35
Non-Emergency minimum void depth - 80
Emergency minimum void depth - 130

**IP66/IK10**

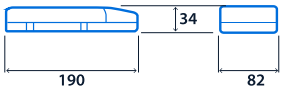



Cut-out - Ø 180
Maximum ceiling thickness - 50
Non-Emergency minimum void depth - 80
Emergency minimum void depth - 130

**Standard Remote Driver**




**SmartEco Remote Driver**




**Emergency Gear Pack**



# Dot

IP40 | 116.6 LL/CW | LUXGUARD



## Circular luminaires suitable for surface or semi-recessed mounting

- Opal fire-retardant polycarbonate diffuser
- Semi-recessed mounting option (see accessories for kit)

## Specification

| | |
|---|---|
| **Nominal size** | 450 mm dia. |
| **IP rating** | IP40 |
| **Lumen output** | 17 W - 1,865 lm |
| **Rated life (hours)** | 100 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

## Range

| LED power | Emergency system (optional) | CAT. No. | Lighting control system |
|---|---|---|---|
| 17 W | **T / E** | **DOT21188** | **N / A / L** |

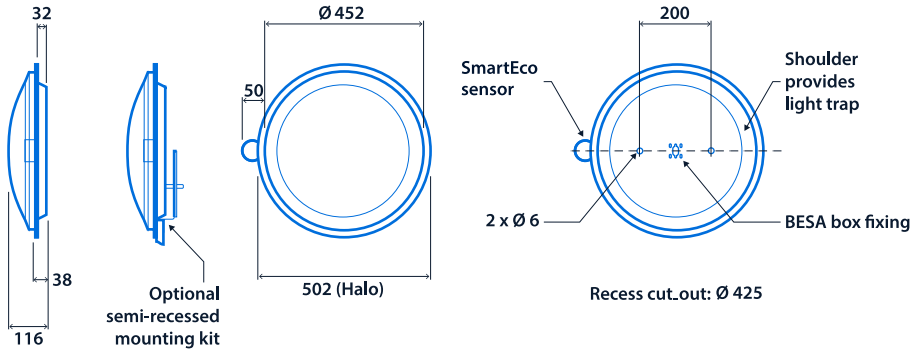
**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

E.g. **TDOT17666N** = 17 W / AutoTest Emergency / SmartEco

## Accessories

| Description | CAT. No. |
|---|---|
| Semi-recessed mounting kit - Large version | **DOT9917** |
| Side entry conduit kit - Large version - Not suitable for use with Halo versions | **DOT11860** |

## Dimensions



# Visio Sport

Up to IP66 | Up to IK10 | Up to 154.4 LL/CW | LUXGUARD



## Supreme performance LED luminaires for indoor sports applications

- Extruded aluminium body with die-cast ends and UV stabilised polycarbonate cover
- Clip-fit stainless steel mounting brackets with locking kit (supplied)
- Smooth wipe clean surfaces, no dust traps
- Ball impact resistant to DIN EN 18032 Part 3 and DIN VDE 0710 Part 13
- Fitted with 2 m lead

## Specification

| | |
|---|---|
| **Nominal size** | 1400 mm |
| **IP rating** | Up to IP66 |
| **Lumen outputs** | 142 W - 22,695 lm<br>212 W - 32,810 lm |
| **Rated life (hours)** | 100 K - L70/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

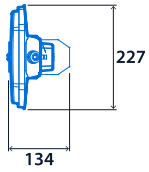
## Range

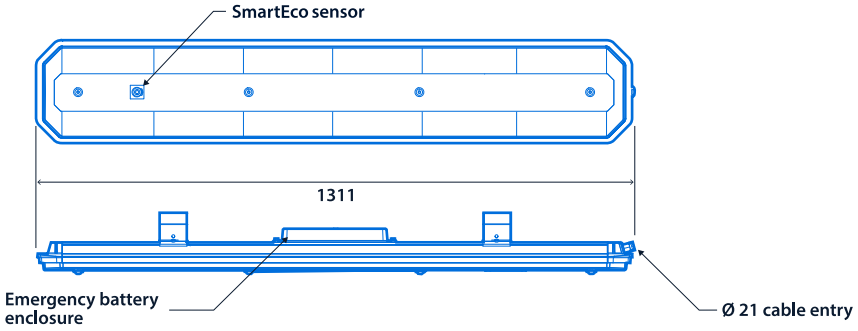
| Nominal size | LED power | Emergency system (optional) | CAT. No. | Lighting control system |
|---|---|---|---|---|
| 1400 mm | 142 W | **T / E** | **VS21180** | **N / A / L** |
| | 212 W | **T / E** | **VS21181** | **N / A / L** |

**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

E.g. **TVS21180N** = 142 W / AutoTest Emergency / SmartEco

## Dimensions



# Thoroproof

IP66 | IK08 | Up to 167.9 LL/CW | LUXGUARD | TM66 circularity score 2.6



## Corrosion-resistant IP66 polycarbonate luminaires

- Smooth easy-clean lines
- TM66 score of 2.6 - LIA/CIBSE certification scheme TSD-012 verified
- Secure and easy to operate cover clips (stainless steel option sold separately)
- Fast installation via-external stainless steel brackets maintains IP rating
- Suitable for external applications but recommended to be mounted under a canopy and not exposed to direct sunlight

## Specification

| | |
|---|---|
| **Nominal size** | 1200 mm / 1500 mm |
| **IP rating** | IP66 |
| **Lumen outputs** | **1200 mm**<br>23 W - 4,410 lm<br>35 W - 6,180 lm<br>**1500 mm**<br>24 W - 4,870 lm<br>34 W - 6,435 lm<br>49 W - 9,255 lm |
| **Rated life (hours)** | 100 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

## Range

| Nominal size | LED power | Emergency system (optional) | CAT. No. | Lighting control system |
|---|---|---|---|---|
| 1200 mm | 23 W | **W / T / E** | **TP21440** | **N / A / L** |
| | 35 W | **W / T / E** | **TP21185** | **N / A / L** |
| 1500 mm | 24 W | **W / T / E** | **TP21441** | **N / A / L** |
| | 34 W | **W / T / E** | **TP21442** | **N / A / L** |
| | 49 W | **W / T / E** | **TP21186** | **N / A / L** |

**Emergency system** - prefix catalogue number with **W** SmartScan Emergency / **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

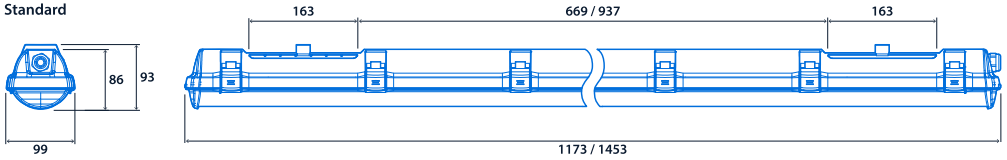
E.g. **TTP21440N** = 1200 mm / 23 W / AutoTest Emergency / SmartEco

## Accessories

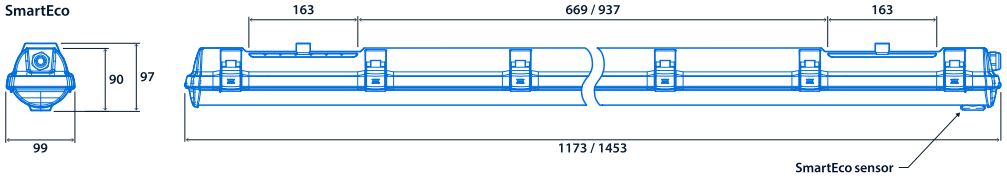
| Description | CAT. No. |
|---|---|
| Stainless steel cover clip - 12 required for 1200 mm / 14 required for 1500 mm | **TP20807** |

## Dimensions

Standard

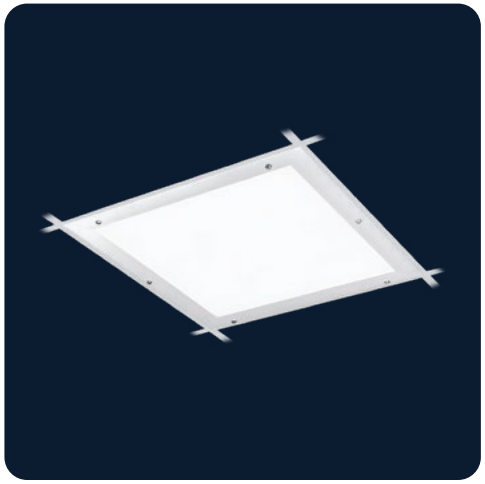



SmartEco



# Cleanline

IP65 (IP20 above ceiling) | IK10 | Up to 116.3 LL/CW | LUX GUARD



## Cleanroom LED recessed luminaires

- Quick release extruded aluminium cover frame
- Cover seals to ceiling with FDA approved silicone gasket
- Optional tamper-resistant cover screws
- Fits most suspended ceiling types or cut apertures

## Specification

| | |
|---|---|
| **Nominal size** | 600 x 600 mm |
| **IP rating** | IP65 (IP20 above ceiling) |
| **Lumen outputs** | Low glare 26 W - 3,165 lm<br>Low glare 38 W - 4,365 lm<br>Opal 26 W - 3,490 lm<br>Opal 38 W - 4,805 lm |
| **Rated life (hours)** | 100 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

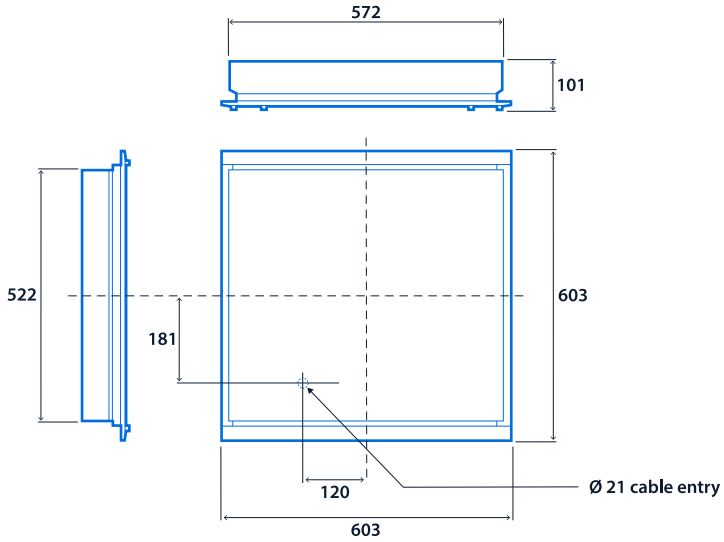
## Range

| LED power | Emergency system (optional) | Low glare | Opal | Lighting control system |
|---|---|---|---|---|
| 26 W | **T / E** | **CZ18000** | **CZ17002** | **N / A / L** |
| 38 W | **T / E** | **CZ18001** | **CZ17003** | **N / A / L** |

**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming
**Tamper-resistant screws** - suffix catalogue number with **T**

E.g. **TCZ18000NT** = 26 W / AutoTest Emergency / Low glare / SmartEco / Tamper-resistant screws

## Dimensions




## Accessories

| Description | CAT. No. |
|---|---|
| Cleanline bezel frame - For spring tee ceilings | **CZ11467** |
| Tamper-resistant key | **KEY12152** |

# Clara 720

IP40 | Up to 172.9 LL/CW | LUX GUARD



## High efficiency LED pendant luminaires

- High efficiency satin sparkle polycarbonate diffuser
- Direct/indirect illumination
- White uplight
- Supplied fully assembled
- Suspended mounting

## Specification

| | |
|---|---|
| **IP rating** | IP40 |
| **Lumen outputs** | 59 W - 10,720 lm<br>80 W - 18,260 lm |
| **Rated life (hours)** | 100 K - L70/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

## Range

| LED power | Emergency system (optional) | CAT. No. | Lighting control system |
|---|---|---|---|
| 59 W | **T / E** | **CA21190** | **N / A / L** |
| 80 W | **T / E** | **CA21191** | **N / A / L** |

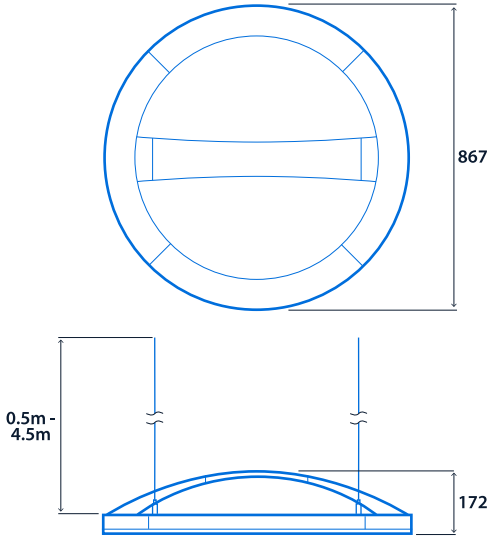
**Emergency system** - prefix catalogue number with **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **N** SmartEco / **A** Dimming (DALI) / **L** Non-dimming

E.g. **TCA21190N** = 59 W / AutoTest Emergency / SmartEco

## Accessories

| Description | CAT. No. |
|---|---|
| Surface wiring tidy | **LL13361W9** |

## Dimensions



# Starbeam

IP66 | IK08 | Up to 157.3 LL/CW | LED PROTECT



## LED area floodlights and streetlights

- Strong high pressure die-cast LM6 aluminium body with toughened glass cover
- Area and roadway optics, with a selection of distribution types available
- Extremely efficient and long system life up to 100,000 hours
- Innovative and patented universal MountSet mechanism allows for simple and secure installation and removes the need for reducers or adaptors
- Tool-free access for easy installation and maintenance

## Specification

| | |
|---|---|
| **IP rating** | IP66 |
| **Lumen outputs** | Area 22 W - 3,775 lm<br>Area 50 W - 8,130 lm<br>Roadway 22 W - 3,690 lm<br>Roadway 50 W - 7,945 lm |
| **Rated life (hours)** | 100 K - L90/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LED Protect |

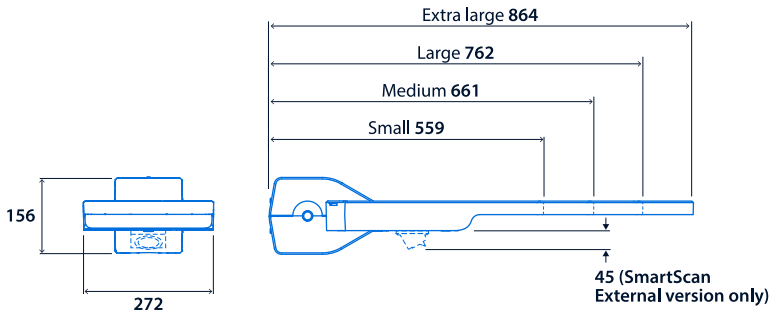
## Range

| LED power | Emergency system (optional) | Area distribution | Roadway distribution | Lighting control system |
|---|---|---|---|---|
| 22 W | **W*** | **SB022A40** | **SB022C40** | **S / P / L** |
| 50 W | **W*** | **SB050A40** | **SB050C40** | **S / P / L** |

* **Only** available with **S** control type

**Emergency system** - prefix catalogue number with **W** SmartScan Emergency
**Lighting control system** - suffix catalogue number with **S** SmartScan External / **P** Photocell / **L** Non-dimming
E.g. **WSB022A40S** = 22 W / SmartScan Emergency / Area distribution / SmartScan External

## Dimensions




## Accessories

| Description | CAT. No. |
|---|---|
| Side baffle - Small version - Suitable for 22 W and 50 W body sizes only | **SB20920** |
| Front baffle - Universal - Suitable for all Starbeam body sizes | **SB20924** |
| Rear baffle - Universal - Suitable for all Starbeam body sizes | **SB20925** |

# Realta

IP66 | IK10 | Up to 162.8 LL/CW | LUXGUARD | TM66 circularity score 2.8



**High-performance, robust luminaires designed to minimise light pollution, disruption to ecosystems, and energy consumption**

- Strong high-pressure die-cast LM6 aluminium body
- Wide or area distribution options
- Innovative one-piece LED lens and cover system
- Extremely efficient and long system life up to 100,000 hours
- Zero upward light

## Specification

| | |
|---|---|
| IP rating | IP66 |
| Lumen outputs | Wide 9 W - 1,470lm<br>Area 18 W - 3,255 lm |
| Rated life (hours) | 100 K - L90/B10 |
| Colour temperature | 4000 K |
| LED protection | LUX Guard |

## Range

| LED power | Emergency system (optional) | Wide distribution | Area distribution | Lighting control system |
|---|---|---|---|---|
| 9 W | **W*** / **T**** / **E**** | **RL09W40** | | **S / P / L** |
| 18 W | **W*** / **T**** / **E**** | | **RL18A40** | **S / P / L** |

* **Only** available with **S** control type ** **Only** available with **P / L** control type

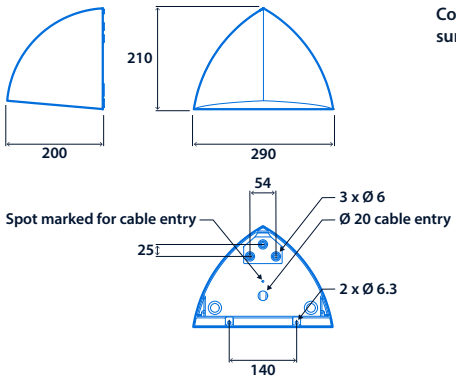
**Emergency system** - prefix catalogue number with **W** SmartScan Emergency / **T** AutoTest Emergency / **E** Standard Emergency
**Lighting control system** - suffix catalogue number with **S** SmartScan External / **P** Photocell / **L** Non-dimming

E.g. **WRL09W40S** = 9 W / SmartScan Emergency / Wide distribution / SmartScan External

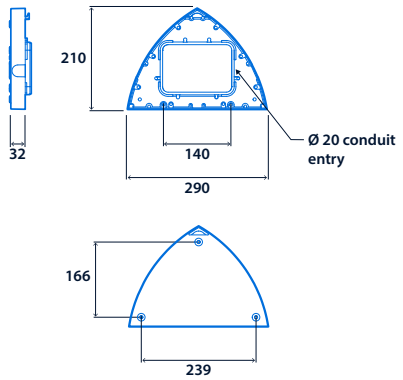
## Accessories

| Description | CAT. No. |
|---|---|
| Conduit entry back-box | **RL20770** |
| T25 pin Torx bit - Suitable for magnetic bit holder | **KEY16976** |

## Dimensions




Conduit mount surface box:



# Prismalette 360

IP66 | IK11 | Up to 118.2 LL/CW | LUX GUARD



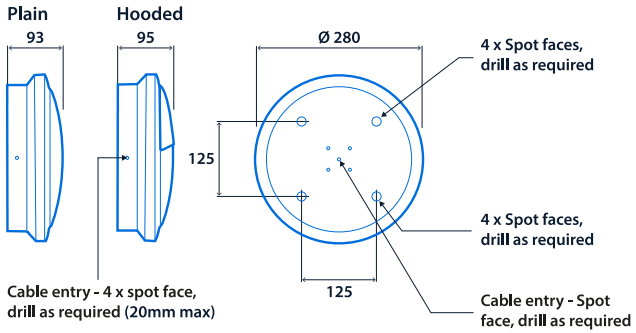
## Vandal-resistant circular luminaires

- Strong high-pressure die-cast LM6 aluminium body and bezel
- Plain or hooded options with high efficiency fire-retardant satin polycarbonate diffuser
- Concealed tamper-resistant cover screws as standard
- Optional photocell control
- Optional bezel trim for semi-recessed mounting
- Complies with M.O.D. JSP482 Chapter 8 Document for 'Category C' areas

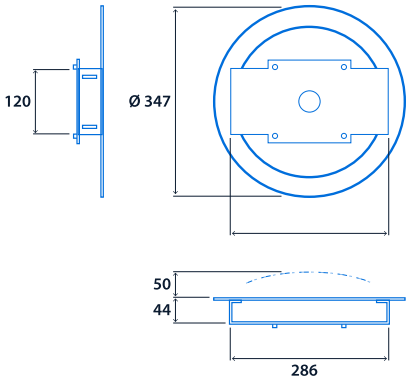
## Specification

| | |
|---|---|
| **IP rating** | IP66 |
| **Lumen outputs** | Hooded 4 W - 640 lm<br>Hooded 8 W - 1,135 lm<br>Plain 16 W - 2,245 lm |
| **Rated life (hours)** | 100 K - L80/B10 |
| **Colour temperature** | 4000 K |
| **LED protection** | LUX Guard |

## Dimensions




Semi-recessed mounting bezel




## Range

| Emergency system (optional) | Product | LED power | Cover | Photocell | Colour | Lighting control system |
|---|---|---|---|---|---|---|
| **W** SmartScan Emergency* | **PM** Prismalette 360 | **004** 4 W *** | **H** Hooded | **P** Photocell**** | **G** Graphite | **R** SmartScan Radar |
| **T** AutoTest Emergency** | | **008** 8 W | | **X** No photocell | **W** White | **M** Microwave |
| **E** Standard Emergency** | | | | | | **L** Non-dimming |
| | | **016** 16 W | **P** Plain | | | |

* **Only** available with **R / L** control type ** **Only** available with **M / L** control type *** **Only** available with **R / L** control type
**** **Only** available with **W / T** emergency system and **L** control type

E.g. **WPM004HPGL** = SmartScan Emergency / Prismalette 360 / 4 W / Hooded / Photocell / Graphite / Non-dimming

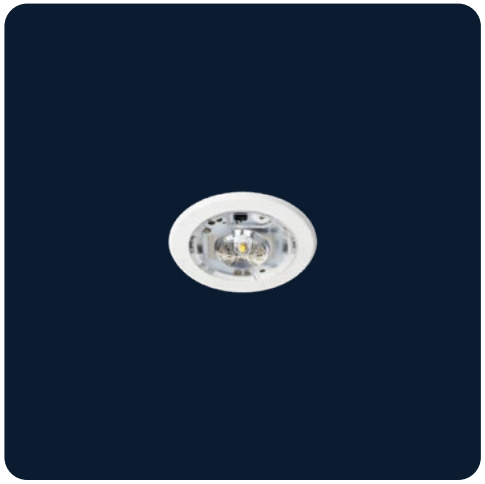
## Accessories

| Description | CAT. No. |
|---|---|
| Bezel for semi-recessed mounting - Graphite | **PM20094G2** |
| Bezel for semi-recessed mounting - White | **PM20094W9** |
| Tamper-resistant T10 and T25 pin Torx bit set | **PM20098** |

# Firefly

IP40 (IP20 above ceiling)

SMARTSCAN



## Discreet emergency luminaires with LiFePO4 battery technology

- Next-generation optics for optimised light distribution
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology
- Compact and discreet design
- Low standby power consumption (< 1 W total)

## Specification

| | |
|---|---|
| **IP rating** | IP40 (IP20 above ceiling) |
| **Emergency lumen outputs** | Area 3 W - 285 lm<br>Area 4 W - 415 lm<br>Corridor 3 W - 270 lm<br>Corridor+ 4 W - 380lm<br>Corner 4 W - 390 lm |
| **Battery specification** | Lithium Iron Phosphate (LiFePO4) |
| **Battery warranty** | SmartScan Emergency - 10 years<br>Standard/Self-Test Emergency - 5 years |

## Range

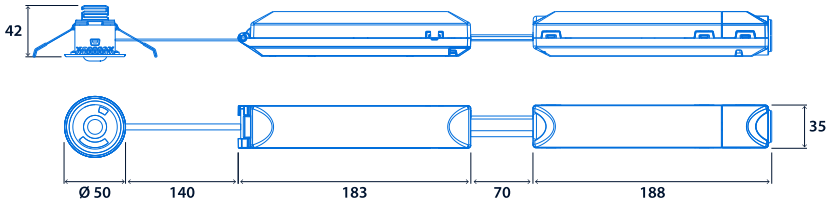
| LED power | Emergency system (optional) | Area optic | Corridor optic | Corridor+ optic | Corner optic |
|---|---|---|---|---|---|
| 3 W | **W / T** | **FZ3RAR** | **FZ3RCD** | | |
| 4 W | **W / T** | **FZ4RAR** | | **FZ4RCP** | **FZ4RCR** |

**Emergency system** - prefix catalogue number with **W** SmartScan Emergency / **T** Standard/Self-Test Emergency

E.g. **TFZ3RAR** = 3 W / Standard/Self-Test Emergency / Area optic

Modular wiring available upon request.

## Dimensions




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

## Accessories

| Description | CAT. No. |
|---|---|
| Lithium Iron Phosphate (LiFePO4) battery - 3 Ah - Blue | **EMB1001** |
| Lithium Iron Phosphate (LiFePO4) battery - 4 Ah - Green | **EMB1010** |

# Firefly Surface

IP65 IK10 SMARTSCAN



## Surface mounted emergency luminaires with LiFePO4 battery technology

- Next-generation optics for optimised light distribution
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology
- Robust and durable construction
- Low standby power consumption (< 1 W total)

## Specification

| | |
|---|---|
| **IP rating** | IP65 |
| **Emergency lumen outputs** | Area 3 W - 285 lm<br>Area 4 W - 415 lm<br>Corridor 3 W - 270 lm<br>Corridor+ 4 W - 380lm<br>Corner 4 W - 390 lm |
| **Battery specification** | Lithium Iron Phosphate (LiFePO4) |
| **Battery warranty** | SmartScan Emergency - 10 years<br>Standard/Self-Test Emergency - 5 years |

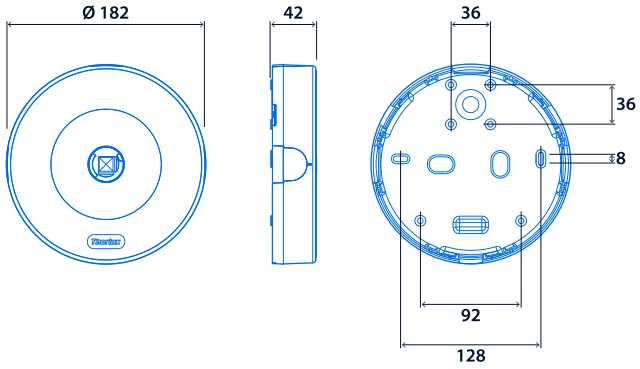
## Range

| LED power | Emergency system (optional) | Area optic | Corridor optic | Corridor+ optic | Corner optic |
|---|---|---|---|---|---|
| 3 W | **W / T** | **FZ3SAR** | **FZ3SCD** | | |
| 4 W | **W / T** | **FZ4SAR** | | **FZ4SCP** | **FZ4SCR** |

**Emergency system** - prefix catalogue number with **W** SmartScan Emergency / **T** Standard/Self-Test Emergency

E.g. **TFZ3SAR** = 3 W / Standard/Self-Test Emergency / Area optic

## Dimensions




## Accessories

| Description | CAT. No. |
|---|---|
| Lithium Iron Phosphate (LiFePO4) battery - 3 Ah - Blue | **EMB1001** |
| Lithium Iron Phosphate (LiFePO4) battery - 4 Ah - Green | **EMB1010** |

# Lexi

IP40



## Emergency exit signs

- Extremely long LED lifetime, up to 100,000 hours
- 20 m maximum viewing distance in accordance with BS EN 1838
- Optional 3 m wire suspension kit or cantilever mounting bracket
- Status indicator shows operational condition
- Hinged battery compartment (requires tool access) provides fast battery replacement
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology

## Specification

| | |
|---|---|
| **IP rating** | IP40 |
| **Legend options** | Arrow left/right double sided<br>Arrow down<br>Arrow up |
| **Battery specification** | Lithium Iron Phosphate (LiFePO4) |
| **Battery warranty** | Standard/Self-Test Emergency - 5 years |

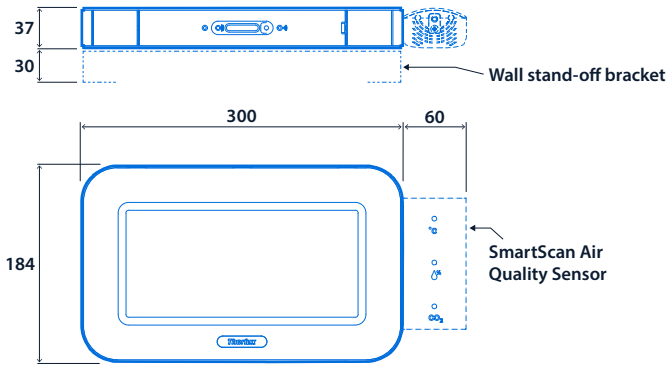
## Range

| LED power | ISO 7010 legend | Emergency system (optional) | CAT. No. |
|---|---|---|---|
| 1 W | Arrow left/right double sided | **D / E** | **LX20824** |
| | Arrow down | **D / E** | **LX20825** |
| | Arrow up | **D / E** | **LX20826** |

**Emergency system** - prefix catalogue number with **D** DALI/Self-Test Emergency / **E** Standard Emergency

E.g. **DLX20824** = Arrow left/right double sided / DALI/Self-Test Emergency

## Dimensions




## Accessories

| Description | CAT. No. |
|---|---|
| Wire suspension kit | **LX17421** |
| Cantilever mounting bracket | **LX19448** |
| Wall stand-off bracket | **LX20019** |
| Back plate kit - To mask wall when retrofitting | **LX19691** |
| Lithium Iron Phosphate (LiFePO4) battery | **EMB702GP** |

# Lexi-65

IP65



## LED emergency luminaires

- Extremely long LED lifetime, up to 100,000 hours
- 21.8 m maximum viewing distance in accordance with BS EN 1838 when using legend kits
- Integral downlight option for exit illumination
- Optional self-adhesive legend kit
- Status indicator shows operational condition
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology

## Specification

| | |
|---|---|
| **IP rating** | IP65 |
| **Legend options** | Arrow left<br>Arrow right<br>Arrow down<br>Arrow up |
| **Battery specification** | Lithium Iron Phosphate (LiFePO4) |
| **Battery warranty** | Standard/Self-Test Emergency - 5 years |

## Range

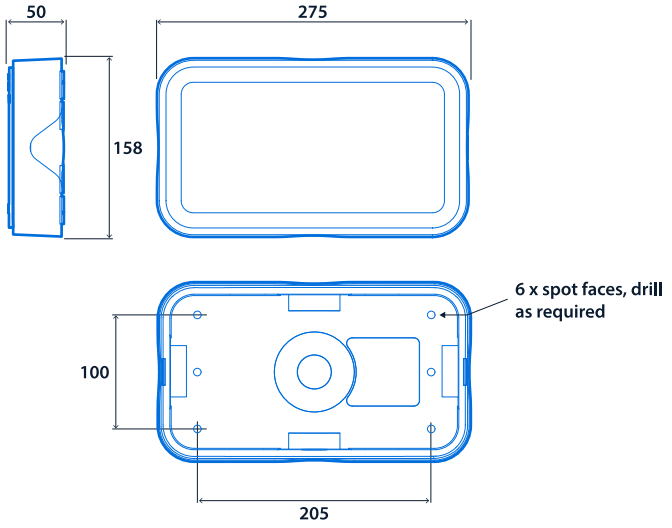
| LED power | Emergency system | Standard version | Integral downlight version | Emergency type |
|---|---|---|---|---|
| 2 W | **W / D / E** | **LX20870** | **LX20871** | Maintained * |

* Wire link may be removed to enable non-maintained operation

**Emergency system** - prefix catalogue number with **W** SmartScan Emergency / **D** DALI / Self-Test Emergency / **E** Standard Emergency

E.g. **WLX20870** = 2 W / SmartScan Emergency / Standard

## Dimensions




## Accessories

| Description | CAT. No. |
|---|---|
| ISO 7010 self adhesive legend kit - Includes arrow left, right, up and down legends | **LXP17613** |
| EURO self adhesive legend kit - Includes arrow left, right, up and down legends | **LXP17612** |



# Why choose Thorlux?



# Why choose Thorlux

**Thorlux Lighting is a globally recognised manufacturer of luminaires and lighting control systems.**

Headquartered in Worcestershire, UK, its modern 16,882 m² factory is just a few miles from where Frederick William Thorpe first manufactured Thorlux luminaires in 1936. Thorlux still proudly manufactures over 90% of its products in the Midlands.

Thorlux is a complete lighting solutions partner, a single point of contact for luminaires, controls, design, installation, and more. Sustainability and environmental care have been at the core of the business for many years, with a target of being net-zero by 2040.

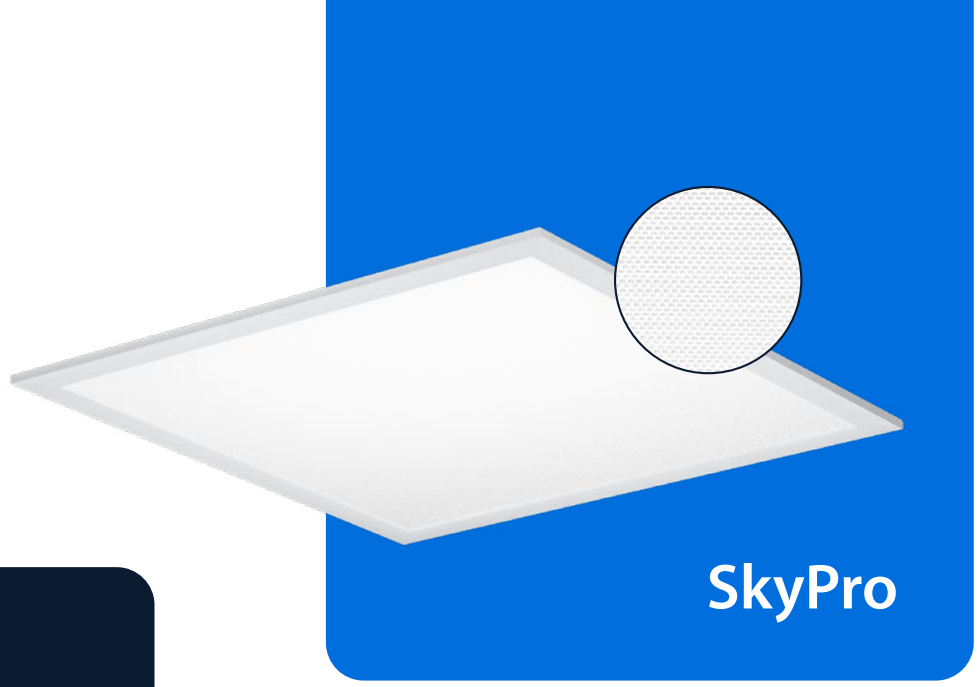


Thorlux Headquarters, Redditch, Worcestershire, UK

## Innovating sustainable lighting solutions for a brighter future

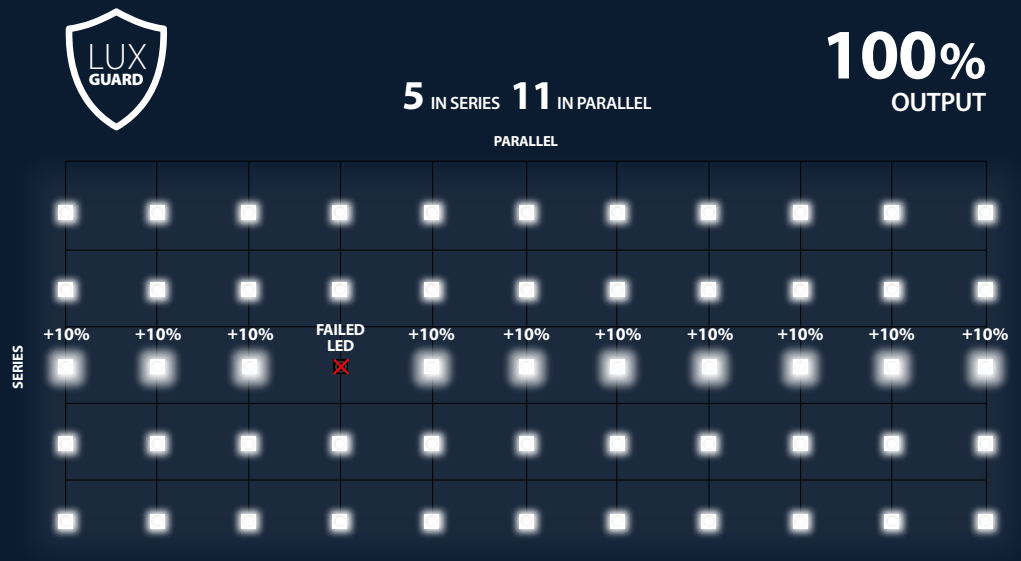
# The Thorlux difference

## The true financial and carbon impact of long-term engineering




**Thorlux products combine robust engineering, high performance and long-term reliability to deliver efficient, sustainable lighting over an extended lifespan.**

Thorlux designs, manufactures and tests the vast majority of its own LED electronic systems. By carefully considering end of life scenarios, for example, LED failures, solder joint failures and isolated component failures Thorlux ensures its designs have on-going system reliability even when individual components fail.




LUX Guard by Thorlux, is a patented current sharing PCB and circuit design philosophy. If an LED fails then its current is shared via neighbouring circuits, with each LED's brightness increasing slightly to compensate. LUX Guard ensures that a luminaire continues to provide its designed lumen performance, even in the case of nuisance LED failures, and reduces the maintenance costs of a project.

Even after years of use the Thorlux product's life is not over, the majority of Thorlux luminaires are designed for future upgrades with robust steel bodies and long life optical grade, fire resistant diffusers.

In-situ upgrades allow performance to be enhanced over time, improving energy efficiency, extending asset life and reducing embodied carbon compared to full replacement. Low energy consumption and reduced maintenance requirements minimise both operating costs and carbon emissions, resulting in strong returns on investment and supporting sustainability targets.

# Reliability you can depend on

## Made in the UK

Thorlux Lighting, the largest company in the FW Thorpe Plc group, is proud that over 90% of its products are manufactured in the UK.

## Ease of maintenance

SmartScan allows the user to view full luminaire status. LED PCBs and modules are replaceable should a failure occur.

## Five year warranty

A genuine warranty with genuine value. A long and stable history reassures Thorlux customers that its warranty is meaningful.

## Quality and reliability

Thorlux holds BS EN ISO 9001:2015 (Quality Management Systems) certification and invests significantly in research and development. Every luminaire manufactured undergoes rigorous product testing to ensure quality and safety. Thorlux Lighting is part of FW Thorpe Plc, a multinational organisation with net assets exceeding £175 million. Thorlux has earned a reputation as a reliable, secure business to work with.

## Environmentally friendly

For the last two decades, Thorlux has worked hard to reduce its environmental impact. Investment in its plant and equipment has allowed Thorlux to reduce its carbon emissions, for example, 100% of electricity used comes from renewable sources, including self-generated energy from the 3,138 photovoltaic panels on the roof of the facility. But recognising there is still much to do, Thorlux has set an independently verified target of achieving net-zero emissions by 2040.

## Energy saving

Thorlux lighting controls combine maintained illuminance, daylight dimming and presence detection to maximise energy savings, in some instances in excess of 80%. SmartScan allows users to monitor their energy performance data and complete operational information for all SmartScan standard and emergency luminaires. This information is displayed on the SmartScan website which can be accessed from anywhere using a computer, laptop, tablet or smartphone.

## Low total cost of ownership

Thorlux luminaires are rapid to install, energy efficient, low maintenance and have a long lifespan resulting in a truly cost effective solution over the lifetime of the installation.

## Building safety and compliance

The Thorlux SmartScan wireless emergency testing system ensures full compliance and peace of mind.

Delivering full energy performance reports, emergency lighting status, luminaire status and management of emergency lighting testing dates/ times.

## Lighting management

The SmartScan lighting management system incorporates building management functions including occupancy profiling and air quality sensing. The addition of SmartScan Analytics also gives users a greater understanding of how their facility performs in operation.

# Thorlux One

## A seamless lighting journey

Thorlux Lighting knows that undertaking a lighting system installation or refurbishment project is complicated.

This is why we offer Thorlux One: a single-source service for your lighting project. We can take care of everything, from design and project management to financing, installation and more. Let Thorlux oversee your new lighting project, managing the risks and ensuring a successful delivery, on time and budget.

**One manufacturer, one team, one contact. That is why we call it Thorlux One.**



### Project discovery

First, we get to know you and establish your objectives. We conduct an in-depth site survey to assess your current lighting system and pinpoint the issues.



### Design and planning

We design and propose options for lighting systems that significantly increase efficiency and offer impressive returns on investment. We then build the new fittings to order at our UK factory.



### Installation and commissioning

Our teams of qualified, experienced engineers install and then commission the new lighting system. We plan this process with you to minimise disruption and optimise effectiveness.



### Handover and through-life support

The last step of the process is to train all relevant personnel to use the new lighting system. All our products are subject to a five-year warranty; support is only a phone call away.

Learn more about Thorlux One

**Innovating sustainable lighting solutions for a brighter future**

INDUSTRIAL LUMINAIRES
COMMERCIAL LUMINAIRES
FLOODLIGHTING LUMINAIRES
ARCHITECTURAL LUMINAIRES
HEALTHCARE LUMINAIRES
HAZARDOUS AREA LUMINAIRES
RETAIL AND DISPLAY LUMINAIRES
CONTROLS AND SYSTEMS

A DIVISION OF F.W. THORPE PLC

**Thorlux Carbon Offsetting Project:**
**www.thorlux.com/trees**

The information given in this catalogue is typical and 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.


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Woodland Carbon $CO_2$de

SUSTAINING MEMBER Society of Light and Lighting

LIGHTING INDUSTRY ASSOCIATION

MADE IN BRITAIN

Lighting Council AUSTRALIA MEMBER

PN 4289A Sept. 26