

# Mental Health Lighting

Lighting Application Guide



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Mental Health  
Lighting **that**  
**cares for people**

Product shown - G4 : LR



## Introduction

Thorlux, for over 80 years, has manufactured increasingly sophisticated luminaires in the Birmingham area. Over the last 20 years, the company has focused on high technology products, including the development of its first electronic energy-saving lighting control system in the mid-1990s. Huge investment in design and testing facilities in Worcestershire has now put Thorlux at the forefront of its market sector.

Designers, manufacturers and suppliers of professional lighting systems since 1936.

Check out our social media







## Made in the UK

Thorlux Lighting, the largest company in the FW Thorpe Plc group, is proud that around 97% of its products are manufactured in the UK.



## Patient Comfort

Thorlux luminaires provide the correct illumination to ensure a caring environment whilst being robust enough to withstand vandalism where necessary.

Through careful selection of luminaire type and LED colour temperature we can aid the patient feeling of wellbeing.



## Building Safety & Compliance

Luminaires need to be extremely robust, able to withstand repeated and sustained attacks and not have ligature points. Furthermore, they shall be easily maintained and capable of maintenance or replacement without harming the building fabric.



## 5 Year Warranty

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



## 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.



## Ease of Maintenance

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



## Energy Saving

Thorlux lighting controls combine maintained illuminance, daylight dimming and presence detection to maximise energy savings, in some instances in excess of 70%. 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 smart-phone.



## Quality & Reliability

Rigorous product testing is essential in maintaining our reputation for reliability and quality. All Thorlux materials, components, sub assemblies and finished products are subject to stringent quality control, as demonstrated by the company's BS EN ISO 9001:2015 Quality Management Systems certification.



## Environmentally Friendly

Thorlux has its own carbon offsetting programme, planting trees on land in Monmouthshire to offset the CO<sub>2</sub> generated from its manufacturing and selling activities.

Solar photovoltaic units are installed on the roof of the Thorlux manufacturing facility and produce 224,470kWh of electricity per annum.

Environmental Certification ISO 14001:2015.

Why Choose Thorlux?



# Introduction to Mental Health Lighting

[www.thorlux.com/mental-health](http://www.thorlux.com/mental-health)

Scan here to view the Mental Health Lighting section on the Thorlux website



## What is a QR code?

Look out for QR codes throughout this brochure, these enable the reader to instantly access the Thorlux Lighting website to gain any additional information.



1

Discover



2

Scan



3

Access



4

Use



Product shown - Arcadian



Lighting for mental health services must take into account a variety of needs, including the requirements of both the patients and the clinical teams.

Lighting needs to assist in creating a non-institutional, relaxed, calming and comfortable space whilst ensuring that the luminaires are robust and tamperproof. The imaginative use of lighting can help the restful feel of a space and care should be taken to avoid glare, shadows and sharp contrasts. The lighting design should ensure maximisation of natural daylight where practical.

Consideration around vertical illuminance is important to allow staff and patients to read each other's faces. In consultation areas high colour temperature light sources will promote alertness whilst low colour temperatures help create a relaxed feel in communal and waiting areas.

The clinical team should be consulted when designing lighting for mental health areas as they best understand the needs of the patient group and will also be able to provide a risk assessment for the building. Areas where patients are left unattended may need a different lighting strategy compared to other areas where members of staff are always present.

Mental Health premises often have comprehensive CCTV coverage. The placement of luminaires should be coordinated with the CCTV camera locations to ensure that glare from the luminaires does not impact CCTV operation and a suitably uniform illumination level is achieved.

Surface or recessed luminaires should have an approved silicone gasket between the fitting and the ceiling to prevent them being used as ligature points. Healthcare environment luminaires need to be very robust, able to withstand repeated and sustained attacks, ligature-resistant, easily maintained and capable of maintenance or replacement without affecting the building fabric.

**For recommended lux levels please see CIBSE : SLL Lighting Guide 2 - Lighting For Healthcare Premises (2019).**



Product shown - G3 : LR

# Treatment Spaces including Multi-bed Wards

Treatment spaces include a variety of room types ranging from specific treatment for individuals, to group rooms and multi-bed wards (some facilities will have individual bedrooms which are covered separately in this guide). Rooms need to be secure and safe, whilst potentially including a toilet, a waiting area, office/bedroom with en-suite. Therapy rooms can be for relaxation, music, drama or similar so consultation with staff is key to achieving the correct design.

For recommended lux levels please see CIBSE : SLL Lighting Guide 2 - Lighting For Healthcare Premises (2019).




For emergency  
lighting guidance  
please see page 32





# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

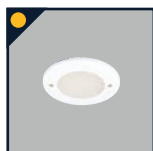


Scan here to view all available products.



Product thumbnails are interactive.

## Recessed Luminaires



### G2 : LR

Recessed ligature-resistant low wattage LED downlighters with remote control gear

IP44 BELOW CEILING

IP20 ABOVE CEILING

IK09



### G3 : LR

Circular ligature-resistant recessed LED downlighters

IP65 BELOW CEILING

IP20 ABOVE CEILING

IK10



### G4 : LR

Square ligature-resistant recessed LED downlighters

IP40 BELOW CEILING

IP20 ABOVE CEILING

IK10



### Tau : LR

Ligature-resistant recessed LED luminaires

IP65 BELOW CEILING

IP54 ABOVE CEILING

IK10

## Surface Luminaires



### Arcadian

LED ligature-resistant luminaires

IP66

IK10++



### Ventego

Tamper, Impact and ligature-resistant surface LED luminaires

IP65

IK10++

# Treatment Spaces

## including Specific Rooms

Quiet rooms can be used for seclusion or de-escalation so design should be flexible to allow for such use. Seclusion rooms are single function rooms with an en-suite designed for low levels of stimuli and to prevent self-harm. Ceiling heights are typically 3m and all luminaires need to be robust, tamperproof and ligature-resistant. The luminaires should be ceiling mounted and switched from outside the room.

De-escalation areas are quiet low stimuli spaces for patients who may be agitated and need quiet time before returning to a ward area. The chosen luminaires should also be ceiling mounted and switched from outside the room. Positive results may be achieved by using colour changing lighting controlled by staff in these spaces (see page 30).

For recommended lux levels please see CIBSE : SLL Lighting Guide 2 - Lighting For Healthcare Premises (2019).




For emergency  
lighting guidance  
please see page 32



Product shown - G3 : LR

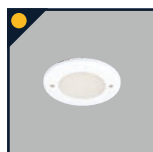


# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

## Recessed Luminaires



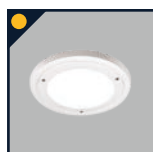
### G2 : LR

Recessed ligature-resistant low wattage LED downlighters with remote control gear

IP44 BELOW CEILING

IP20 ABOVE CEILING

IK09



### G3 : LR

Circular ligature-resistant recessed LED downlighters

IP65 BELOW CEILING

IP20 ABOVE CEILING

IK10



### G4 : LR

Square ligature-resistant recessed LED downlighters

IP40 BELOW CEILING

IP20 ABOVE CEILING

IK10



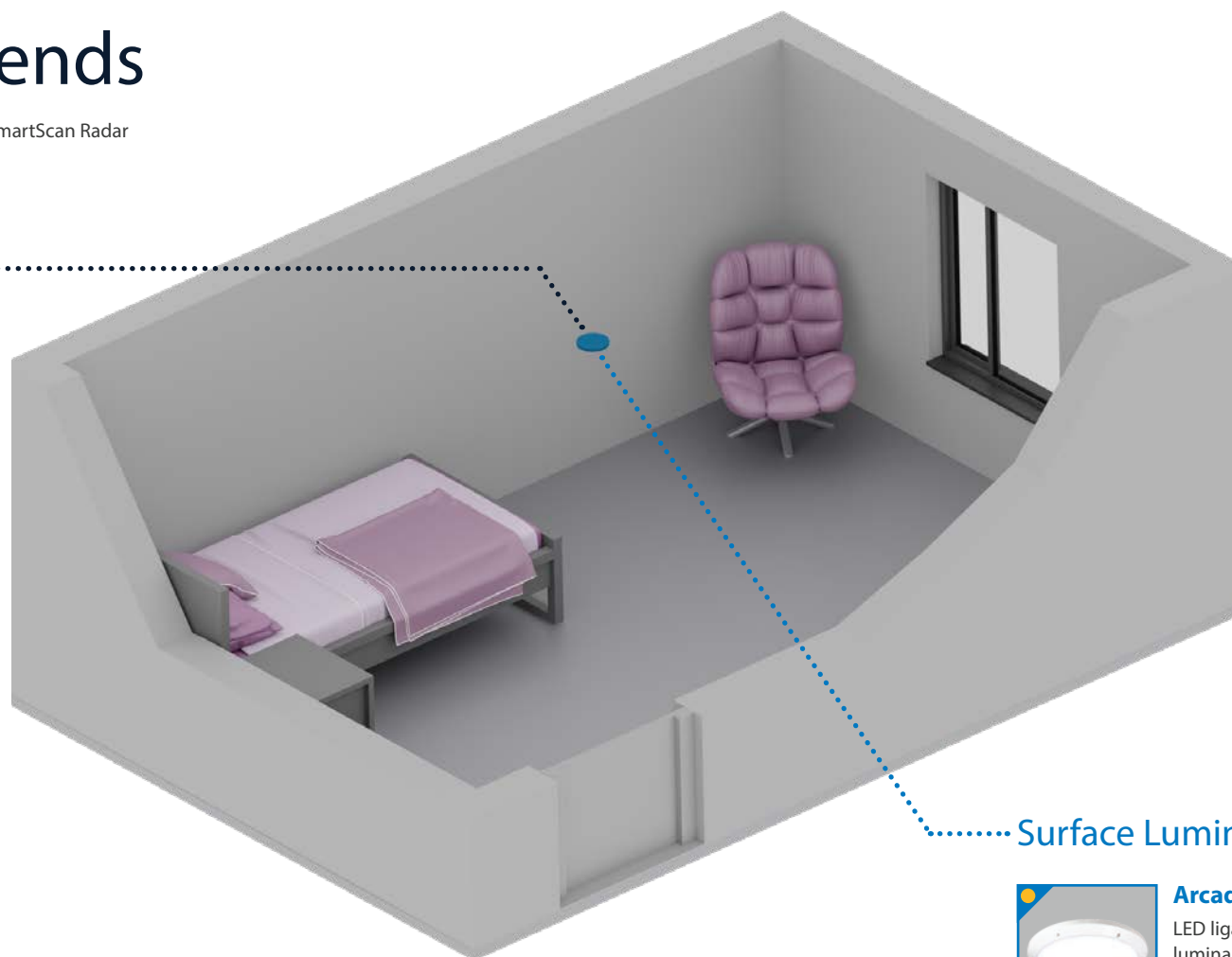
### Tau : LR

Ligature-resistant recessed LED luminaires

IP65 BELOW CEILING

IP54 ABOVE CEILING

IK10



## Surface Luminaires



### Arcadian

LED ligature-resistant luminaires

IP66

IK10++



### Ventego

Tamper, Impact and ligature-resistant surface LED luminaires

IP65

IK10++



Product thumbnails are interactive.



Scan here to view all available products.

## Living Spaces for Individuals

The modern approach for patient accommodation is to provide single rooms with en-suite bathrooms opposed to multi-bed wards. Single bedrooms allow patients space for personal everyday living and sleeping. General lighting and reading lighting should be provided and aim to create a domestic/hotel feel. The luminaires should be robust and classified as ligature-resistant as staff may not be present. Manual control with dimming can enhance the domestic ambience by providing user control over their environment. The ECO-Touch : LR can be used to provide pre-set dimming levels plus manual override from outside the bedroom.

CIBSE: SLL Lighting Guide 2 - Hospitals and Health Care Buildings 2019 recommends Illumination levels of between 50 and 150 Lux.

En-suite bathrooms require general bathroom lighting with a domestic/hotel feel whilst also using robust ligature-resistant luminaires. Illumination levels of 500 lux are recommended.

**For recommended lux levels please see CIBSE : SLL Lighting Guide 2 - Lighting For Healthcare Premises (2019).**




For emergency  
lighting guidance  
please see page 32

Product shown - Arcadian





# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

## Recessed Luminaires



**G3 : LR**  

Circular ligature-resistant recessed LED downlighters

IP65 BELOW CEILING

IP20 ABOVE CEILING

IK10

## Surface Luminaires



**Arcadian**  

LED ligature-resistant luminaires

IP66

IK10++



**Cobalt : LR**  

Circular ligature-resistant surface LED luminaires

IP66

IK10



**Ventego**  

Tamper, Impact and ligature-resistant surface LED luminaires

IP65

IK10++



Product thumbnails are interactive.



Scan here to view all available products.

# Shared Common Spaces

In shared spaces where patients are accompanied general purpose luminaires are suitable. However, guidance from the clinical team should be sought to determine the exact requirements. Quality of life spaces are private areas where a patient can relax and have quiet time. Alternatively social spaces are where staff and patients can interact in social and leisure activities to promote well-being and a sense of community. These spaces need to be both comfortable and non-threatening.

For recommended lux levels please see CIBSE : SLL Lighting Guide 2 – Lighting For Healthcare Premises (2019).




For emergency  
lighting guidance  
please see page 32



Product shown - G3 : LR

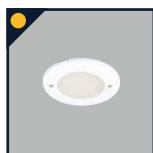


# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

## Recessed Luminaires



### G2 : LR

Recessed ligature-resistant low wattage LED downlighters with remote control gear

IP44 BELOW CEILING IP20 ABOVE CEILING IK09



### G3 : LR

Circular ligature-resistant recessed LED downlighters

IP65 BELOW CEILING IP20 ABOVE CEILING IK10



### G4 : LR

Square ligature-resistant recessed LED downlighters

IP40 BELOW CEILING IP20 ABOVE CEILING IK10

## Surface Luminaires



### Arcadian

LED ligature-resistant luminaires

IP66 IK10++



### Cobalt : LR

Circular ligature-resistant surface LED luminaires

IP66 IK10



### Ventego

Tamper, Impact and ligature-resistant surface LED luminaires

IP65 IK10++



Product thumbnails are interactive.



Scan here to view all available products.

## Shared Common Spaces

Visiting areas, where patients receive visitors including adults, children and babies, should provide a relaxed feeling and promote trust in the facility and staff. These may include dedicated spaces with baby changing facilities.

CIBSE: SLL Lighting Guide 2 - Hospitals and Health Care Buildings 2019 recommends Illumination levels of between 150 and 300 Lux

For recommended lux levels please see CIBSE : SLL Lighting Guide 2 - Lighting For Healthcare Premises (2019).




For emergency lighting guidance please see page 32



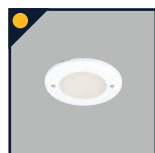
Product shown - G3 : LR

# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

## Recessed Luminaires



### G2 : LR

Recessed ligature-resistant low wattage LED downlighters with remote control gear

IP44 BELOW CEILING IP20 ABOVE CEILING IK09



### G3 : LR

Circular ligature-resistant recessed LED downlighters

IP65 BELOW CEILING IP20 ABOVE CEILING IK10



### G4 : LR

Square ligature-resistant recessed LED downlighters

IP40 BELOW CEILING IP20 ABOVE CEILING IK10

## Surface Luminaires



### Arcadian

LED ligature-resistant luminaires

IP66 IK10++



### Cobalt : LR

Circular ligature-resistant surface LED luminaires

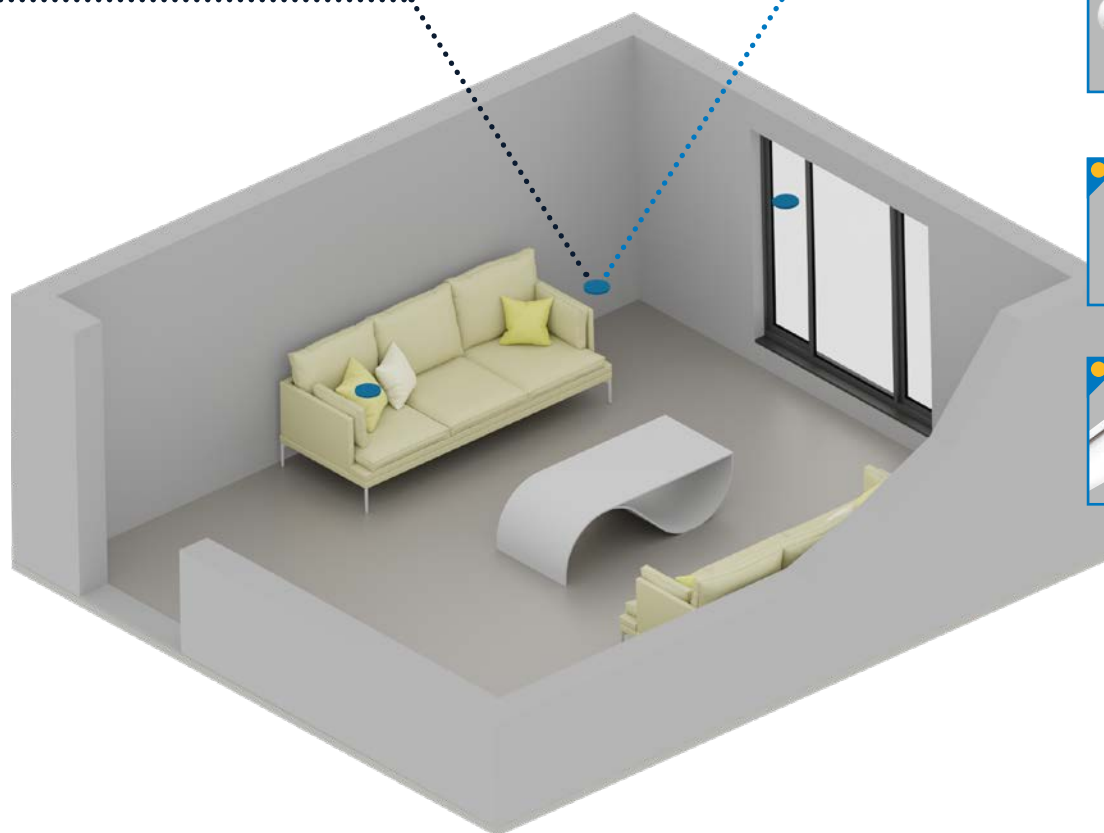
IP66 IK10



### Ventego

Tamper, Impact and ligature-resistant surface LED luminaires

IP65 IK10++



Product thumbnails are interactive.



Scan here to view all available products.



# Functional Utility Spaces

Kitchen areas require low-glare, uniform illuminance, best provided by ceiling luminaires. Luminaires should be enclosed with an acrylic or polycarbonate cover designed to be easily removed for cleaning. If the dining area is distinct from the kitchen the lighting should reflect this, as well as being switched separately from the kitchen, decorative lighting on walls or ceiling can create a pleasant atmosphere.

For recommended lux levels please see CIBSE : SLL Lighting Guide 2 - Lighting For Healthcare Premises (2019).



For emergency lighting guidance please see page 32




Product shown - Kanby LED Controller



Product shown - G3 : LR

# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

## Recessed Luminaires



### G3 : LR

Circular ligature-resistant recessed LED downlighters

IP65 BELOW CEILING

IP20 ABOVE CEILING

IK10



### G4 : LR

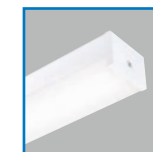
Square ligature-resistant recessed LED downlighters

IP40 BELOW CEILING

IP20 ABOVE CEILING

IK10

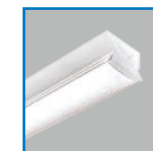
## Surface Luminaires



### Kanby LED Controller

LED controller luminaires

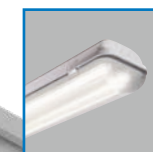
IP40



### Kanby Evo

Narrow body LED controller luminaires

IP40



### Thoroproof

Corrosion-resistant polycarbonate luminaires

IP65

IP54 SMART VERSION



Product thumbnails are interactive.



Scan here to view all available products.

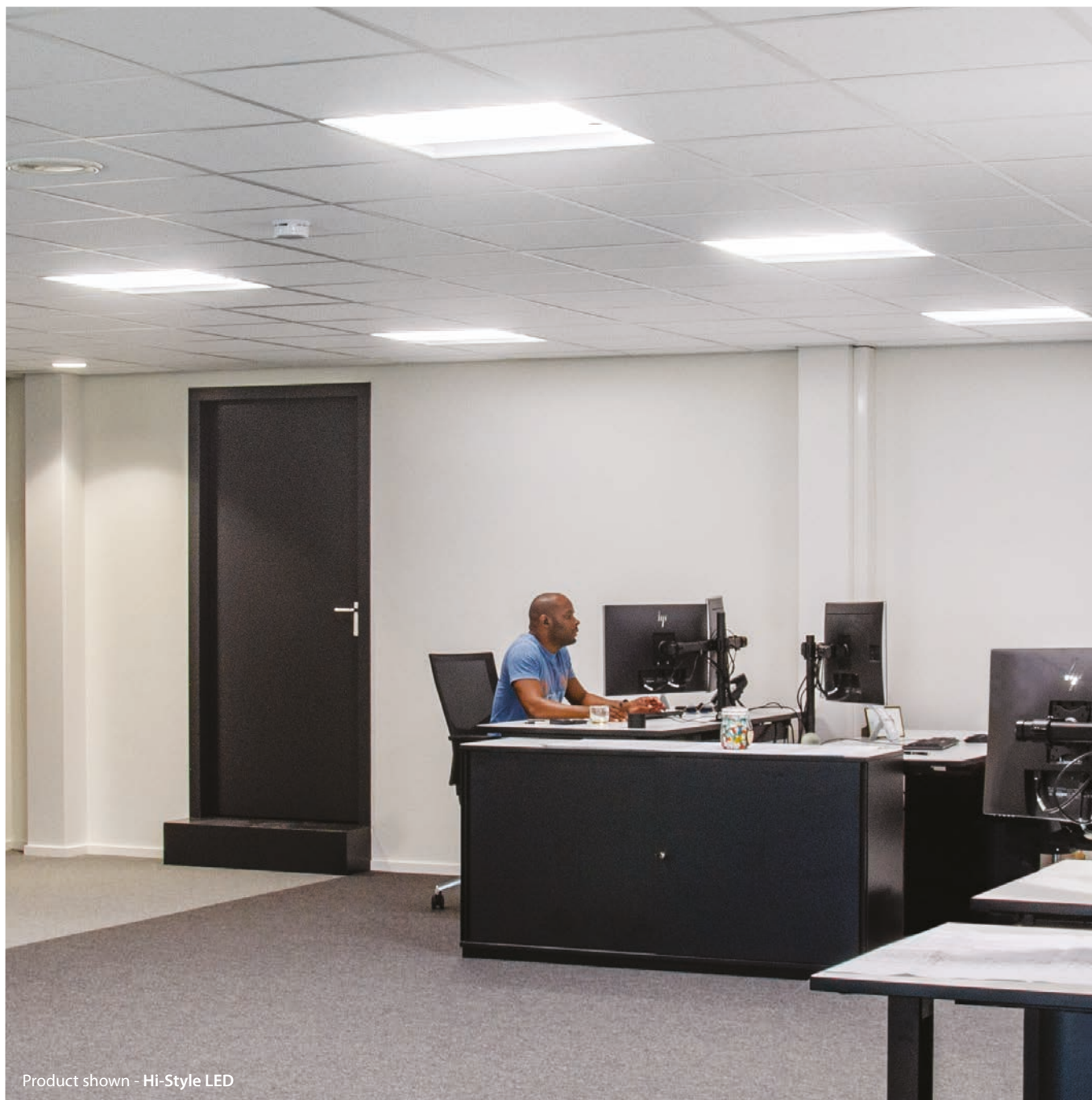
# Ancillary Spaces

Whilst many areas within a mental health facility require ligature-resistant luminaires this does not apply to all spaces. Some facilities will opt to use ligature resistant products, regardless of the type of space, for consistency and maintenance reasons while others will use robust, non ligature resistant luminaires. Typically, areas that come within this category include offices, meeting rooms, staff rooms and circulation spaces.

In selecting for these applications, it is still important to conduct a risk assessment to be certain that patients cannot gain access.




For emergency lighting guidance please see page 32



Product shown - Hi-Style LED



# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.

## Recessed Luminaires



### Hi-Style LED

High performance recessed LED luminaires

IP40 BELOW CEILING

IP20 ABOVE CEILING



### Plateau

Recessed luminaires with polycarbonate diffuser

IP44 BELOW CEILING

IP40 BELOW CEILING (SMART)

IP20 ABOVE CEILING

IK09 STANDARD VERSION

IK08 SMART VERSION



### Sky-Dome

Recessed luminaires with domed polycarbonate diffuser

IP44 BELOW CEILING

IP40 BELOW CEILING (SMART)

IP20 ABOVE CEILING

IK09 STANDARD VERSION

IK08 SMART VERSION



### Tau : LR

Ligature-resistant recessed LED luminaires

IP65 BELOW CEILING

IP54 ABOVE CEILING

IK10

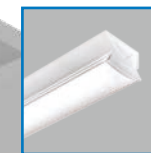
## Surface Luminaires



### Prismalette 360

Vandal-resistant circular luminaires

IP66 IK10++



### Kanby Evo

Narrow body LED controller luminaires

IP40



### Thoroproof

Corrosion-resistant polycarbonate luminaires

IP65

IP54 SMART VERSION



### A-Line : LR

Multi-purpose, ligature-resistant and corrosion-resistant luminaires

IP66

IK10 / IK09 / IK07 / IK06



Product thumbnails are interactive.



Scan here to view all available products.

# External Spaces

External exercise areas are often used during the evening, so need to be well lit. Consideration needs to be given to the location of luminaires for future maintenance and access. It may be possible to provide sufficient illumination from column mounted flood lights mounted outside the patient-access area. If the area is lit from several different directions, then shadowing is reduced, and the uniformity is often improved. The placement of luminaires should be coordinated with the CCTV camera locations to ensure that glare from the luminaires does not impact CCTV visibility, and of course spill lighting into bedrooms should be minimised. Energy efficiency must be considered; ideally luminaires should have photocell control to ensure that they are not left on at full brightness all night. SmartScan External movement sensors allow luminaires to be switched between lighting levels by occupancy sensing.



For emergency lighting guidance please see page 32

Product shown - Cobalt : LR




Product shown - Realta : LR





# Thorlux recommends

Luminaires featured with the  symbol are available with SmartScan Radar high frequency sensor technology. For full details see page 28.

Luminaires featured with the  symbol are ligature-resistant.



Product thumbnails are interactive.



Scan here to view all available products.

## Surface Luminaires



### Cobalt : LR

Circular ligature-resistant surface LED luminaires

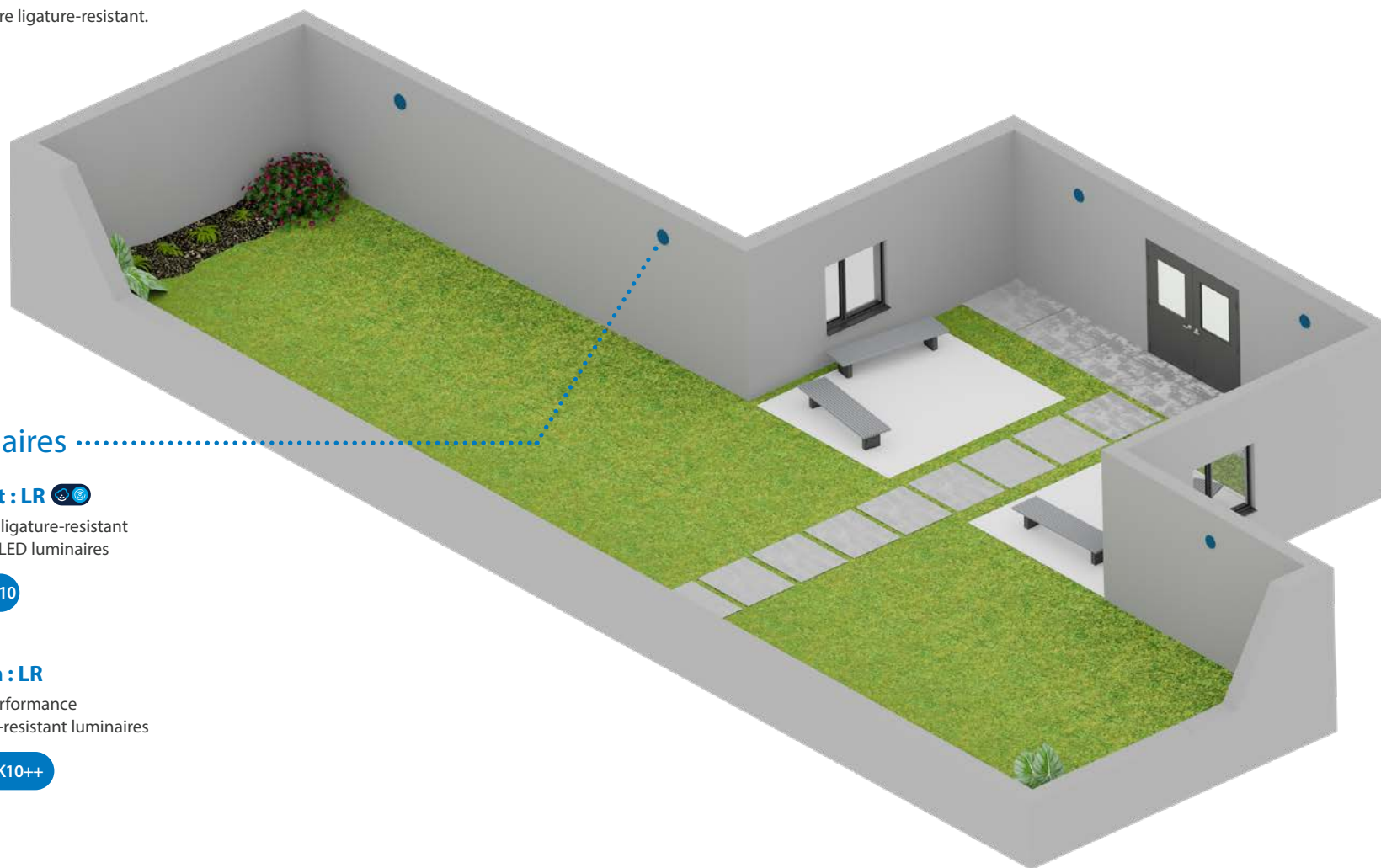
IP66 IK10



### Realta : LR

High performance ligature-resistant luminaires

IP66 IK10++





# Lighting Management Systems

Thorlux offers a comprehensive range of lighting management systems from basic presence detection, through to full wireless control and monitoring systems.

## Lighting Control in Mental Health Applications

Lighting control is an integral part of any lighting solution. However, energy efficiency should not be the sole driver when selecting controls for a healthcare environment, consideration must also be given to the risks and benefits to the room occupier(s).

The extent to which staff and patients are given control over their environment depends on the type of area and expectations of users. Where patients are given control over their lit environment, staff override should be provided for patient safety.

For further information please refer to:

CIBSE : SLL Lighting Guide 2 -  
Lighting For Healthcare Premises (2019)

CIBSE : SLL Lighting Guide 14 -  
Control of electric lighting (2016)



### SmartScan Internal

A sophisticated lighting management system for indoor applications based on reliable wireless communications offering fully programmable control combined with energy and status reporting. Complementary building services technologies can be integrated.



### SmartScan External

A sophisticated lighting management system for external applications based on reliable wireless communications offering time and presence detection control, full energy and status reporting.



### SmartScan Radar

Mounted directly to the LED light engine, integral to the luminaire and is designed for applications where the luminaire aesthetics and impact rating are important factors (see page 28 for details)



### Smart

Combining presence detection, maintained illuminance and daylight based dimming for individual or groups of luminaires using simple wired communications.



### ECO

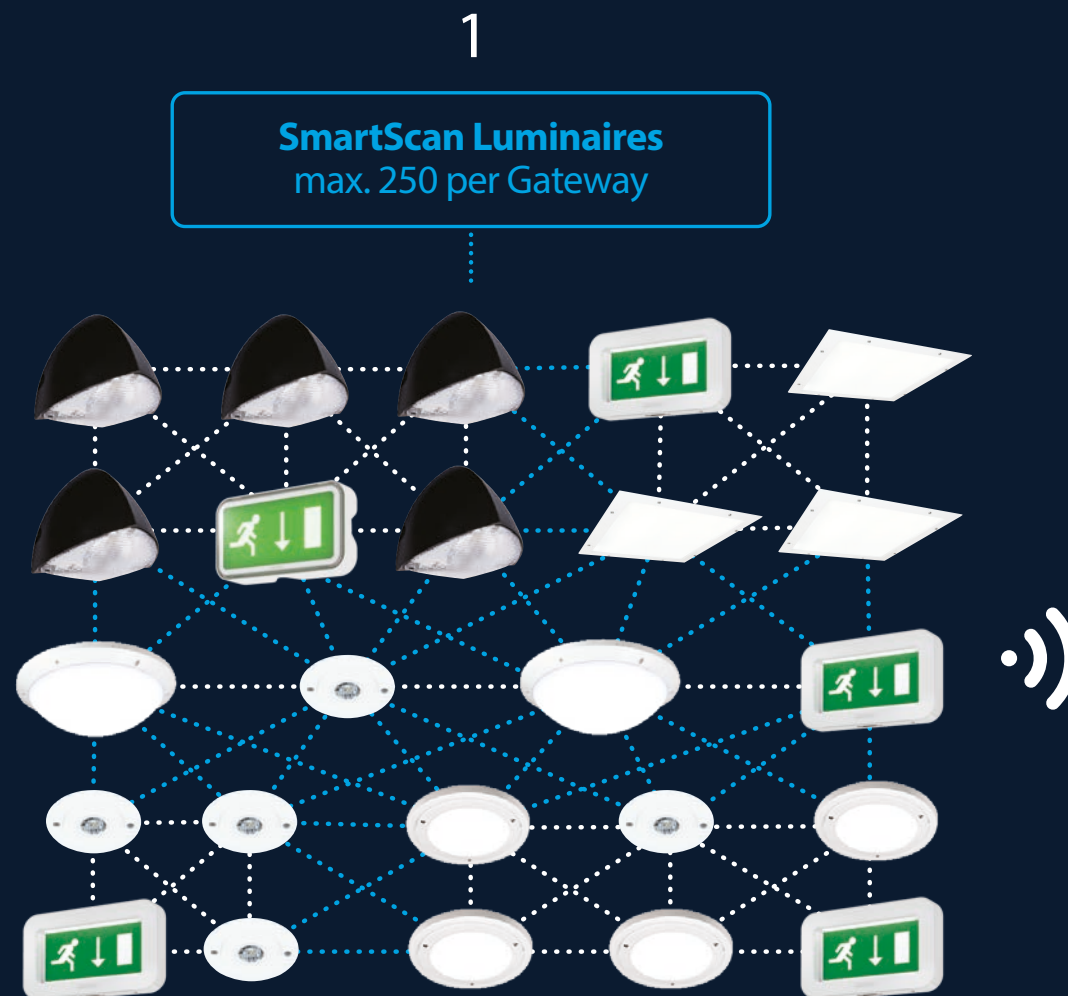
Simple energy saving controls that offer good energy savings for individual or small groups of luminaires



# Lighting Management Systems

A comprehensive lighting management system can achieve significant energy reduction and assist with operational checks and maintenance. Maintenance teams often aren't aware of lighting outages until reported. Yet in locations such as corridors without natural daylight, such lighting failures can create additional hazards and risks. SmartScan monitors the performance of all luminaires, so if there is a failure it is reported promptly to the maintenance teams.

- 1 Compatible SmartScan Internal, SmartScan Radar, SmartScan External and SmartScan Emergency luminaires wirelessly communicate with each other.
- 2 The Gateway transmits energy performance and status reports for standard and emergency luminaires to the SmartScan web server.
- 3 Users can view status and operational information on any Internet enabled device.







# What is Radar?

SmartScan Radar extends the award winning SmartScan range of lighting controls. Using the latest high frequency sensor technology SmartScan Radar is mounted directly to the LED light engine, integral to the luminaire and is designed for applications where the luminaire aesthetics and impact rating are important factors.

Thorlux can offer a wide range of luminaires with SmartScan Radar technology built into the LED light engine, for use in a wide variety of applications.

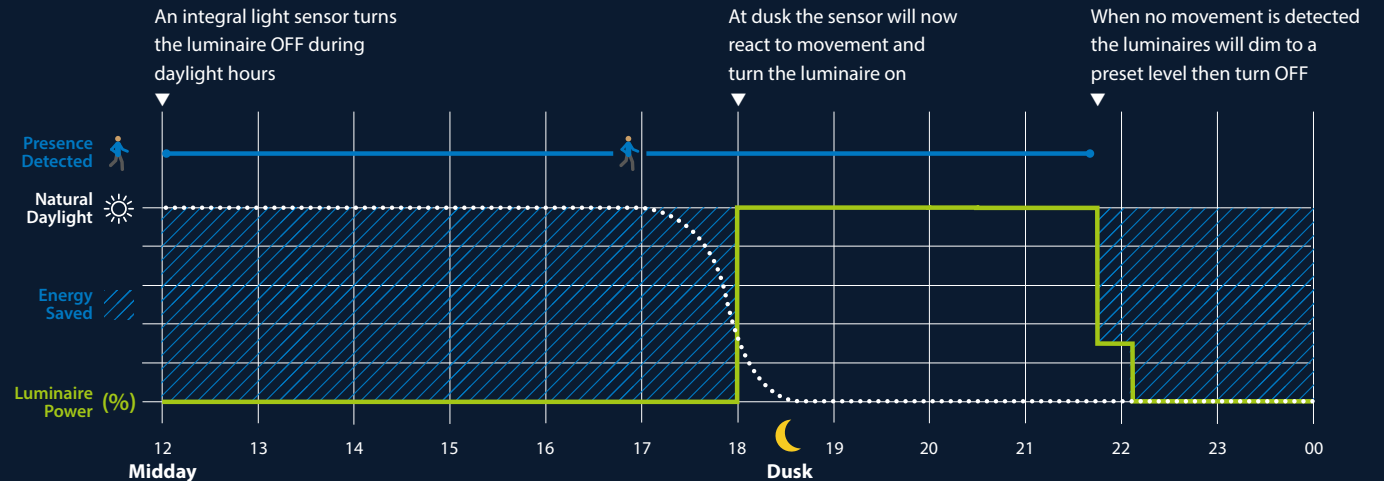
SmartScan Radar offers energy saving through presence detection and daylight control, user control via SmartScan scene setting or timed override from the SmartScan website.

The system can be used in both wall and ceiling mounted applications for internal and external areas. With customisable sensitivity settings the system can be commissioned to suit the environment.



## Radar Benefits

- Radar presence detectors are integral to the luminaire, providing improved vandal resistance and aesthetics.
- Unique 24GHz sensor with increased sensitivity to small movements whilst being less prone to false detection than traditional 'microwave' technology.
- Fully programmable light levels, detection range (sensitivity), time delays and security levels via the SmartScan Programmer.
- New advanced SmartScan technology allows photocell control with the LED lamp on or off.
- Full status monitoring via the SmartScan website.
- Automatic testing and record keeping of emergency luminaires via the SmartScan website.





Product shown - Arcadian





# ColourActive Lighting

## Colour Active Luminaires with SmartScan Control

Light does a lot more than just enable humans to see. Light affects people physically, mentally and behaviourally. Light intensity and the colour temperature of light can affect us in different ways. For example, low levels of warm light can have a calming and relaxing effect, whereas high levels of cool or blue light can have an activating effect. Thorlux ColourActive luminaires combined with SmartScan lighting controls provide the ability to alter the light intensity and colour, where patients or clinical staff are then able to set the optimum lighting conditions for the situation or task.

## Colour Temperature Control

Thorlux ColourActive high performance LED luminaires incorporate dual populated PCBs where LEDs with two different colour temperatures (3000K and 6500K) are combined.

The Thorlux designed and manufactured technology utilises twin lighting circuits within each luminaire to vary the output to produce colour temperatures of either 3000K, 6500K or any value in between.

High quality medium power LEDs, placed on a circuit board with integral heat sinking, provide a highly efficient solution.

## Advanced Controls

SmartScan wireless mesh network technology provides signals to control the ColourActive luminaires to provide both manual and automatic control of colour temperature.

The ColourActive Gateway communicates with the luminaires throughout the day, providing automatic, seamless transitions between colour temperatures.

Manual control is provided by a range of wall mounted touch sensitive plates and smartphone apps.

**For our full range of ColourActive luminaires please contact the Thorlux sales office.**





## Saturated Coloured Lighting

In some situations saturated coloured lighting is desired which can be used to help influence a patient's mood or behavior. For example, green coloured light can have a calming effect if a patient is agitated or upset. Thorlux can provide a range of products with RGB (red, green and blue) LEDs providing a full range and saturated coloured lighting effects. Please contact your local lighting sales engineer for further information.



# Emergency Lighting

Good emergency lighting is essential to ensure patients and staff can evacuate calmly and safely in the event of an emergency. Exit routes should be clearly identified with exit signs, and each tread on stairs should be clearly illuminated. Fire-fighting equipment should be lit to a minimum of 5 lux. BS5266-1 recommends that a minimum of two luminaires, or one luminaire and an exit sign with a useable downward element, should be fitted in every section of an escape route.

Thorlux offers a comprehensive range of emergency lighting control solutions from standalone emergency, through to full wireless control and monitoring systems.

## The emergency lighting design must take into account the following:

- Escape route signs
- Stairs so that each flight receives direct light
- Changes in floor level
- Changes of escape route direction
- Corridor intersections
- First aid posts
- Fire alarm call points or pieces of fire fighting equipment
- Outside the final exit door and to a place of safety
- Moving stairways and walkways
- Toilet facilities exceeding 8m<sup>2</sup> or any multiple closet facility without borrowed light
- Toilet facilities for disabled use
- Motor generator, control and plant rooms
- Manual release controls for electronically locked doors
- Escape equipment for disabled people
- Refuges and call points, including disabled toilet call positions
- All other areas as deemed by the Risk Assessment



### SmartScan Emergency

Self-testing emergency luminaires with integral battery for 3 hour emergency operation. Wireless communication and web connectivity for automatic scheduled testing, luminaire status and test history reporting.



### AutoTest

Self-testing emergency luminaires with integral battery for 3 hour emergency operation.

**In areas where patients sleep AutoTest should not be used since the luminaires can test at any time. The use of SmartScan Platform 2 allows testing times to be set to avoid this nuisance.**




### Emergency

Emergency luminaires with integral battery for 3 hour emergency operation.



# Thorlux recommends

Luminaires featured with the  symbol are ligature-resistant.

 The majority of Thorlux luminaires are available with an integral emergency option.

## Escape Route



### Firefly

Emergency luminaires for recessed mounting with SmartScan wireless communication version

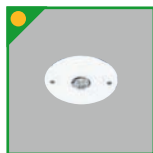
**IP65** DOWNLIGHTER (BELOW CEILING) **IP40** DOWNLIGHTER (ABOVE CEILING)



### Firefly Surface

Emergency luminaires for surface mounting with SmartScan wireless communication version

**IP54** SQUARE VERSION **IP66** CIRCULAR VERSION



### Firefly : LR

Emergency luminaires for recessed mounting with SmartScan wireless communication version

**IP65** DOWNLIGHTER (BELOW CEILING) **IP40** DOWNLIGHTER (ABOVE CEILING)

**IP20** CONTROL MODULE

## Exit Signage



### Lexi

Edge-lit emergency exit signs with SmartScan wireless communication version

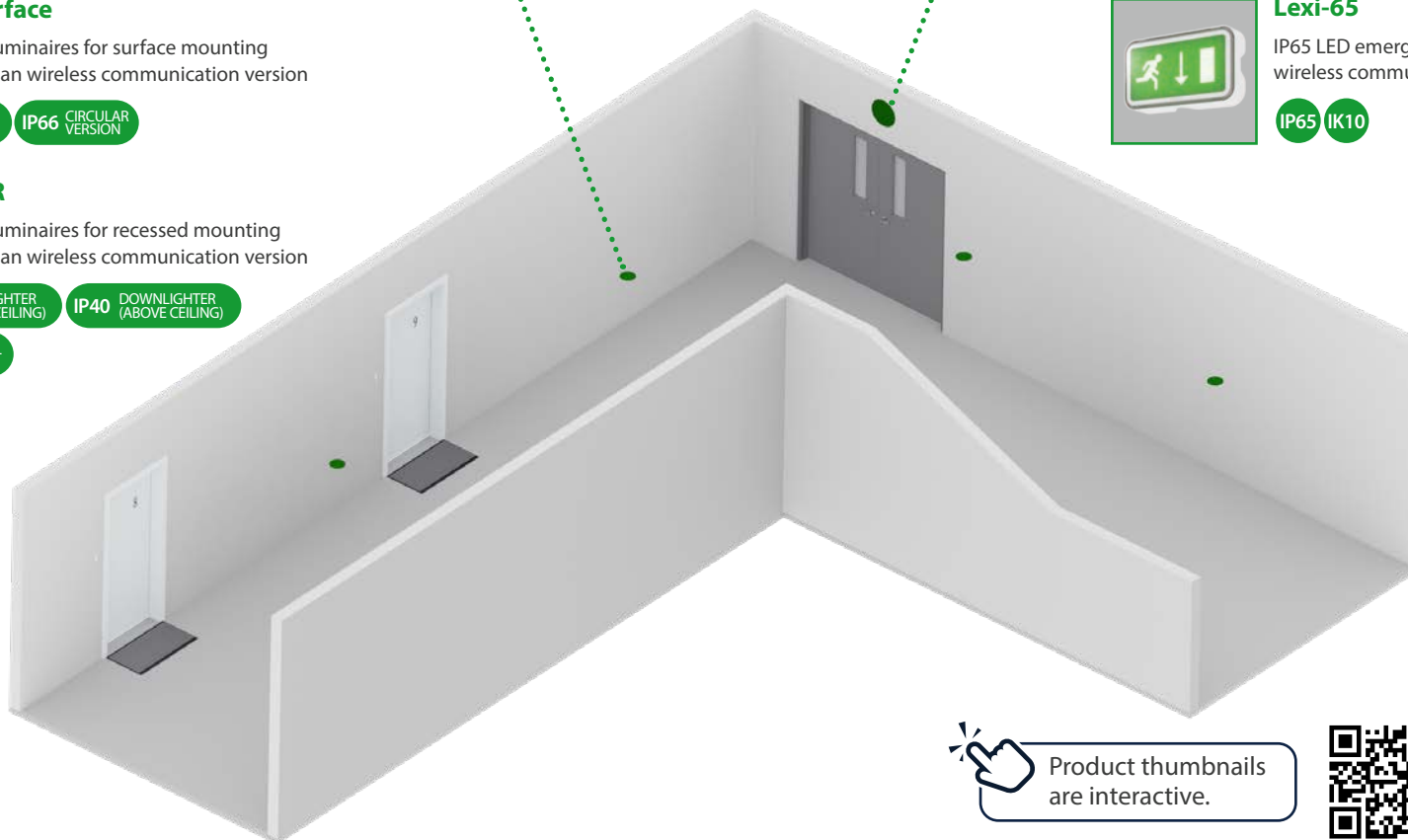
**IP40**



### Lexi-65

IP65 LED emergency luminaires with SmartScan wireless communication version

**IP65** **IK10**



Product thumbnails are interactive.



Scan here to view all available products.

# Our comprehensive lighting and service solutions

Our lighting solutions give you the peace of mind that Thorlux will manage your project from start to finish; from survey and lighting design through to maintenance and supporting you through the life of the installation.



Product shown - G4 : LR



## Planning and Surveying

Thorlux will undertake surveys and record performance data in order to evaluate existing lighting installations. The information collected on-site will inform an optimised lighting design as well as the potential energy and maintenance savings.



## User Training

During or after handover of the lighting systems to the client, Thorlux can train facility personnel on the proper operation and maintenance of the lighting and the control system. Trained staff who fully understand the controls are less likely to attempt to override or bypass the system.



## Lighting Design

Our award-winning Lighting Design department will prepare lighting scheme proposals to meet the unique needs of each project including energy saving controls where appropriate. Cost effective lighting, low cost of ownership and user comfort are three key elements accounted for in our designs. For those wishing to produce their own lighting schemes, we are partners with both DIALux and Relux. These lighting design software packages and our corresponding luminaire databases are available to download free of charge from our website.



## Commissioning

Thorlux offers a professional on-site commissioning service to ensure that products are configured to provide the desired performance and return on investment. Commissioning begins with identifying the end-user's project requirements and ends with ensuring that the installed systems satisfy these requirements. Commissioning of lighting is now an integral part of the requirements for new buildings and major refurbishments under Building Regulations Part L.



## Supply

Over 97% of all Thorlux products are designed and manufactured in its UK factory based in Redditch Worcestershire. This provides excellent flexibility to fast track orders and supply products to special order or deadlines.



## Technical Support

The Thorlux Technical Services department is ready to answer all queries regarding Thorlux products and the use of these products in specific environments.



# 5 Year Warranty

A genuine warranty with genuine value

The Thorlux range of luminaires is designed, manufactured and distributed by Thorlux, a division of the FW Thorpe PLC group. FW Thorpe PLC is listed on the London Stock Exchange. See the corporate website at [www.fwthorpe.co.uk](http://www.fwthorpe.co.uk)

Thorlux luminaires have been manufactured continuously in the UK since 1936, the year Frederick William Thorpe founded the company.

In 2018-19, the revenue of FW Thorpe PLC was £110m, of which £66m was generated by Thorlux luminaires and control systems.

The Thorlux product warranty offered to customers covers a period of 5 years, with no get-out clauses concerning the number of burning hours or maintenance requirements, and no convoluted registration process.



## This warranty is enhanced by the following key factors:

- FW Thorpe PLC has a robust balance sheet, with net assets in excess of £100m (2020)
- More than £50m in cash reserves provide the ability for Thorlux to support any future warranty liabilities
- FW Thorpe PLC has a stable ownership structure, with over 60% of the business owned by founding family members and management
- Investment in product research and development is continual - £1.8m invested per annum
- Thorlux product failure rates are consistently below 0.1%, with over 2,000 luminaires individually tested and shipped every day
- Critical components are supplied by market-leading global suppliers

- A dedicated team of our own employed local service engineers respond to any customer issues quickly and effectively, not only in the UK but overseas too
- Products are manufactured in the UK therefore spares are readily available
- As Thorlux is a listed company, stringent conditions require it to be fully audited by a third party. In recent years this has been PricewaterhouseCoopers LLP (PwC), one of the top four audit and advisory firms globally. Auditors of listed companies follow rigorous international guidelines, ensuring that the financial details such companies publish (such as those above) are accurate and can be relied upon.

Thorlux must prove that it will be able to pay any claims made according to its warranty conditions during the warranty period. Provision is made in each year's accounts, effectively putting aside profit from current orders for use in the future if required.

This is a key aspect of being a listed company that other smaller businesses are not required, and maybe not capable of doing. Thorlux customers should be reassured that a Thorlux warranty means something: at Thorlux, we are capable of meeting our obligations.

Some other companies offer long warranties but do not have the financial assets to withstand a sizeable warranty claim. Thorlux encourages customers to consider this scenario when purchasing other companies' products with extended warranty offers.

Michael Allcock - Chairman

Please refer to [www.thorlux.co.uk/terms](http://www.thorlux.co.uk/terms) for full details of our terms and conditions of sale.



Product shown - Arcadian

## How To Specify Your Lighting Supplier

1. The supplier shall have ISO 9001 (Quality Management Systems) independent assessment and certification.
2. The supplier shall be responsible for its environmental activities and demonstrate genuine concern. This shall be proven by independent assessment and certification to ISO 14001 (Environmental Management Systems).
3. The supplier shall prioritise the welfare of the workforce and visitors to site with independent assessment and certification to ISO 45001 (Occupational Health and Safety Management Systems).
4. The supplier shall provide Certificates of Conformity demonstrating compliance with European legislation directives 2006/95/EC, 2004/108/EC and 2011/65/EU.5. Photometric test information shall be available from equipment which is independently assessed.
6. The supplier shall offer a commissioning service, provided by its own trained technicians. A commissioning certificate shall be provided.
7. All products will be fully tested before despatch to include safety earth circuit continuity, high voltage electrical strength testing, full circuit functionality including dimming, and checks on current drawn.
8. Products and services shall be backed by a comprehensive 5-year warranty - the supplier will have an established history and track record.

# Thorlux CPD Seminars

Thorlux offers a range of professional CPD presentations ranging from updates in lighting technology to guidance on lighting applications and legislation. These presentations are CIBSE approved therefore non-sales based and are intended to disseminate knowledge and best lighting practices.



## Lighting for Healthcare Environments (LG2)

For more information or to book your CPD, contact your local lighting sales engineer, or visit

[www.thorlux.com/cpd](http://www.thorlux.com/cpd)







# Projects

## Glenfield Hospital

Leicester, Leicestershire

Glenfield Hospital is situated approximately three miles north west of Leicester city centre. The Bradgate Mental Health Unit is an acute mental health admissions unit with seven acute admission wards and a ten-bedded male Psychiatric Intensive Care Unit (PICU). The recent refurbishment of the unit has helped to create a modern, safe and functional space for patients and staff.

The Arcadian luminaire has been installed in a number of rooms within the unit. The Arcadian range has been developed to satisfy the need for an extremely impact and tamper resistant low glare LED luminaire for general lighting in circulation spaces, corridors and stairwells. The domestic impression of the Arcadian makes it an ideal choice for modern health care projects, where it can help to provide a welcoming and comforting ambience. The use of LED technology combined with the SmartScan wireless lighting management system ensure high efficiency and low maintenance, critical in keeping costs low.

New lighting has also been installed at The Beacon, the acute psychiatric inpatient facility for children and adolescents, including Realta:LR luminaires, high performance ligature-resistant luminaires suitable for external walkways and perimeter lighting, and Starbeam LED floodlights.



Scan here to  
view projects.



Product shown - Ventego





Product shown - Arcadian



Product shown - G4 : LR and G3 : LR



Product shown - G3 : LR



# Projects

## The Redwoods Centre

Shrewsbury, Shropshire

The Redwoods Centre is a purpose built, award winning inpatient facility which opened in September 2012. Based in Shrewsbury it serves the population of Shropshire and Telford & Wrekin. Comprising of four buildings, the centre offers 79 beds for adults with acute mental health problems, dementia and rehabilitation needs, as well as a 32 bedded low secure forensic unit. The buildings are named after local hills; Clee, Wrekin, Caradoc and Wenlock, and the actual wards after trees, Birch, Yew, Pine, Holly, Oak, Willow and Laurel.

The aim of the centre is to create a home from home for people using the unit. As well as the residential rooms there is a central 'street', with a café, shop, bank and pharmacy. The welcoming central entrance building includes gentle landscaping and deliberately 'domestic' architecture whilst roof lights and windows throughout the single-storey clinical accommodation ensure that patients get plenty of sunlight to help their recovery.



Scan here to  
view projects.



Product shown - Realta : LR





Product shown - Thoroproof



Product shown - Realta : LR



Product shown - Cobalt : LR



Product shown - Kast



Designers, manufacturers and suppliers  
of professional lighting systems

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

A DIVISION OF FW THORPE PLC

**Thorlux Carbon Offsetting Project:**  
[www.thorlux.com/trees](http://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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