





Lighting for **Emergency**

Tamlite Lighting

Tamlite Lighting is no ordinary lighting manufacturer. Founded in 1967, we live and breathe our philosophy of Lighting for a Living. For us, it is much more than a marketing tagline. It crystallises how we think about light and the impact it has on every aspect of our lives.

How we live, work, play, learn and exist are all basic human needs that are influenced by light. Creating environments that are perfectly lit - comfortable, practical, efficient, safe and promote wellbeing - is what we do, and it is what we have done well for over 50 years.

As we have expanded, Tamlite Lighting remains committed to its British roots, with extensive R&D, testing and manufacturing activities managed out of factories in Redditch and Telford. This gives customers the assurance that any Tamlite product has been made with quality in mind.

Today, Tamlite offers over 500 product ranges and in excess of 15,000 products, cementing its place as one of the industry leaders in cutting-edge lighting solutions.

The purpose of this brochure and topics below is to demonstrate how Tamlite can provide the ideal emergency lighting solution for a range of applications.

- The Role of emergency lighting
- Connected emergency lighting
- Emergency lighting requirements
- Key products
- Emergency case studies



As a UK manufacturer we have one of the widest lighting ranges across:







& Leisure

Warehouse & Logistics

Tamlite Sectors

Tamlite designs, manufacture and supply outstanding lighting solutions to a wide range of sectors. Having achieved the LIA Quality Assurance award, and as a BAFE registered company, Tamlite provides quality lighting products and schemes for a variety of applications. Tamlite's BAFE accreditation is as a result of quality emergency lighting system design, utilising fully industry compliant 'fit-for-purpose' emergency luminaires. Tamlite understands that emergency lighting is a key priority for facility managers, and ensure that all luminaires and system designs are compliant with British emergency lighting standards, providing sufficient illumination for building occupants in the event of an emergency or loss of mains power.



Emergency

Emergency Lighting is essential for the safety of occupants in all buildings where people meet.

Under the Regulatory Reform Order (Fire Safety) 2005 it is a legal requirement and should be installed and tested in line with BS 5266:1 2016. In the event of a mains failure the emergency lighting system, including signage, should provide adequate lighting levels and directional indication to allow the occupant to move safely around the building, and exit if necessary, without accident or injury. Emergency Lighting is an essential part of a building safety system and is the responsibility of the building owner, occupier or manager to ensure compliance. 11-11

Tamlite offers a wide range of emergency lighting solutions to suit almost any situation. Combining high quality and high specification components ensures the products are easy to install, energy efficient and offer extended service intervals, reducing maintenance overheads, providing peace of mind to building managers.







Automatic, self-testing of emergency lighting installations for large buildings and estates such as schools, universities, factories and public buildings is considered essential. The testing of Emergency lighting throughout private or public buildings is the responsibility of the owner or occupier. The legislation for this is laid out in BS5266-1; landlords, end users or owner occupiers are at risk if they do not have the correct testing and recording of emergency lighting installations in place. The Tamlite e-CONNECT system provides one of the most professional and complete automatic self-testing systems on the market.

The Tamlite e-CONNECT system is a flexible and professional, autonomous emergency testing system that allows scheduled maintenance programmes to be carried out without the need for walking around site and costly access. The system incorporates the use of fully addressable DALI emergency modules to allow full monitoring of status and battery condition, and a communications protocol that allows for central monitoring and reporting as well as remote access to the emergency lighting network for testing and real-time status. The entire system is wired via a simple 2-wire bus system that acts as the communication highway for devices to report back on function and duration testing. Luminaires can be dedicated emergency or conversions of standard luminaires and these can be grouped or zoned into user-defined sectors allowing scheduled testing of different areas or luminaire types at specific times.

e-CONNECT

Central to the control and management is the e-CONNECT panel that is the final termination point of the 2-core DALI bus. The e-CONNECT panel provides an easy user-interface for engineers or site managers to schedule testing, monitor status and report testing schedules and results back to a central network point. All emergency function testing and duration testing can be scheduled remotely from the panel with collation of all results and identification of failed units. All luminaires and emergency points can be addressed and easily located. Larger installations can have multiple panels connected together. The panel has a 7" colour screen with a user-friendly display and a screen lock mode.



e-CONNECT

Ensures the "Responsible Person" for the installation has met legal obligations in ensuring emergency lighting testing has been carried out and recorded.

Features

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- aatewav
- Ethernet port for networking and off-site monitoring Test logs electronically stored in non-volatile memory



- Touch screen interface
 - Colour coded on-screen status indication for easy identification
- 60 devices can be connected per loop and 2 loops in total (120 devices). Further capacity is available
 - through additional networked panels or an IP
 - can be downloaded via Ethernet or USB connection

e-CONNECT



Once installed, the Tamlite e-CONNECT system allows for 2 main emergency lighting test functions:

Function test for loss of mains power supply. The system simulates the loss of mains power and then checks that all Emergency light sources on the network operate safely and correctly from the battery supply within the luminaire.

Duration test removes the mains power supply for a period of 3 hours to ensure the battery supply and emergency light sources are capable of meeting the minimum requirements.

Manual scheduling of these 2 functions allows a minimum of disruption within the building. Once the tests are complete, test reports can be printed or e-mailed to a remote location for review and storage in central locations. This allows the system to be very beneficial across large, multi-building estates such as hospitals, universities, schools and large factory sites.



Tamlite CPD Modules

Tamlite CPD modules are designed to pass on the knowledge that we have acquired after a lifetime in lighting, to help people understand the fundamental principles of good lighting practice.

The industry continues to change and expand, and our CPD modules offer an in-depth guide to new developments within emergency lighting. Whether you are a lighting designer, architect or consultant, our CPD modules demonstrate the key concepts surrounding emergency lighting.

Common Pitfalls with Emergency Lighting

- Regulations and Standards
- Luminaire Types
- Emergency Lighting System Design

Emergency Lighting in a Connected World

- The Role of Connected Lighting
- Emergency Lighting Standards
- Testing and Reporting
- Central Monitoring Software



Lighting for Emergency



Installation

When selecting an emergency lighting product, the installer should bear in mind the area needing to be covered and select the most appropriate solution to meet those requirements. Manufacturers are legally obliged to have key product data available. Ensure the data has been verified by a trusted third-party, for example, currently, the Lighting Industry Association [LIA] or Lux-TSI; that information should be checked by the installer. Emergency fittings will be installed either as replacements or a new installation, and it is imperative that the replacement has an equivalent light output to ensure safety of occupants.



Maintained & Non-maintained

Maintained luminaires operate as normal light fittings during everyday operation and can be controlled with all other luminaires in the area. When power fails, they automatically switch to battery backup. Non-maintained luminaires remain off during everyday operation and will only illuminate if the mains power fails.



Escape Route

Escape routes must be clearly illuminated and sign-posted, allowing occupants to swiftly evacuate the building. Escape routes, which can include hallways, corridors and stairwells, must be lit to a minimum of 1 lux on the floor along the centre line. The 1m centre band should be illuminated to at least 0.5 lux. Points of emphasis, such as changes in directions and level, as well as firefighting equipment, must be illuminated to a minimum of 2 lux.



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Responsible Person

Within a building, it is a requirement for the Regulatory Reform (Fire Safety) Order 2005, that a responsible person takes reasonable steps to reduce the risk of fire and ensure that people can safely escape from the building. This person must have a degree of control of the building, whether it is the owner or facility manager, and is responsible for the identification of escape routes and potential hazards, as well as identifying the emergency lighting requirements.additional attention. Points of emphasis require a luminaire within 2m.

Open Areas

If the open area is over 60m2, then the minimum lighting level on the ground must be no less than 0.5 lux in an emergency. In open areas that are less than 60m2, emergency lighting is not required. However, people may be unfamiliar with their surroundings, so emergency lighting should always be taken into consideration. Exit doors for the emergency escape route must have signs or an emergency bulkhead light. In an emergency, occupants may panic, but strategically placed emergency lighting could reduce the likelihood of panic, providing appropriate visual direction, by enabling safe movement of occupants towards escape routes.

High Level

A higher output fitting may be needed to achieve the required 0.5 lux on the ground in high level mounting applications, such as warehouses or industrial areas. Racking aisles in warehouse environments can be difficult to navigate, particularly for unfamiliar people, so high output luminaires are key to provide sufficient illumination in these environments.

Emergency Products

All Tamlite emergency products are designed with the end-user in mind, and 3-hours rated to ensure that they provide sufficient light for a long amount of time, to make sure that occupants can exit a building safely.

Tamlite has a range of maintained and non-maintained emergency fittings, to suit the requirement of the building. We have designed our fittings to be aesthetically pleasing, and to not draw on the eye when not in use, but to provide crucial illumination in an emergency. Tamlite exit signage can be specified with a choice of legends, to suit specific requirements.



TWINSPOT

- Suitable for warehouse, industrial or retail applications
- High quality spot heads eliminate the need for replacement
- IP65 Weatherproof version available



ELITE SPOT

- Emergency twinspot ideal for retail or office applications
- Virtually service free emergency lighting
- Compact body with dual optic for a discreet emergency module



ELITE DL

- Suitable for high visibility areas where attractive styling is essential
- Modern stylish profile
- Available in 3 colour options



LEDMAX

- High output emergency bulkhead for large spaces up to 20m mounting height
- Virtually service free emergency lighting
- Easy to install with simple connection wiring

EMLUX

- Low maintenance Good spacing performance
- High impact vandal resistant

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EMLED

- Recessed downlight for open areas and escape routes
- Virtually service free emergency lighting
- Easy to install with simple connection wiring

Case Study Celesio UK _{Coventry}

Celesio UK, part of McKesson Europe, is a leading provider of integrated healthcare services to the NHS, specialising in medicines, pharmaceutical care and primary care patient services.

Their head office, in Coventry, holds a significant number of employees, so it was crucial that the emergency lighting throughout the office was suitable. This was addressed recently following a major refurbishment and lighting upgrade where Tamlite Lighting was specified.

Celesio UK are responsible for the safety of their staff, so quality emergency lighting was paramount. Emergency lighting ensures that there is sufficient illumination for their employees to vacate the building quickly, in the event of an emergency or a loss of mains power.

Tamlite standalone emergency luminaires were supplied, as well as a range of luminaires with integrated emergency. These are particularly important in corridors and stairwells, to ensure that people are able to see as they make their way out of the building. Emergency luminaires at Celesio UK were designed to be subtle, blending into the interior design, ensuring that they are visually pleasing as well as functional.

Emergency signage also plays a key role in assisting building occupants with navigating their way out of the building quickly and safely.

Products Used







EM PRO



EXIS SURFACE





Case Study Leominster Hospital Leominster

Leominster Community Hospital provides medical care to those in the local community, as well as ongoing treatment and rehabilitation of patients discharged from the County Hospital in Hereford who are not yet able to return home. As part of a continuing update of NHS hospitals in the Wye Valley area, the lighting system for the hospital needed to be improved, due to the previous light fittings being in place for 20 years.

As well as supplying an array of emergency lighting products to the hospital, Tamlite Lighting low glare solutions with integrated emergency options were also installed at the site. These integrated options ensured that every room, including those without designated emergency products, would provide sufficient light for occupants, even in the event of a loss of mains power.

Dedicated emergency fittings were installed in the corridors and the wards, to highlight the escape routes throughout the site. In the event of an emergency, these fittings illuminate the space, allowing staff and patients to exit the building.

All dedicated emergency fittings and integral emergency options are 3 hours emergency rated, to ensure that they maintain illumination for as long as possible without mains power.



Products Used



MODLED LG PRO



BLADE



EMLUX







Case Study Winnington Park School Cheshire

Winnington Park Primary School in Cheshire has recently built a brand-new teaching block on its site. This is home to a number of classrooms, resource areas and the main hall, all designed to provide the pupils with the ideal school environment.

With so many classrooms in the new block, and the main hall for assemblies, the building can be occupied by hundreds of pupils and staff at any given time. Therefore, it is crucial that the emergency lighting system in place in the building is perfect.

EMLED recessed emergency fittings were installed in the classrooms and foyer areas. These provide a high output light, if the mains power is lost, and the primary lighting fails. These EMLED fittings are vital, highlighting escape routes so occupants can easily make their way out of the building in an emergency.

The main hall is fitted with EMLUX luminaires. These high-output, IP65 rated bulkheads provide sufficient illumination in large spaces such as main halls. As the hall can occupy so many people at any time, it is vital that the illumination is sufficient to highlight the escape routes.

LUNAR bulkheads were installed in the stairwells. These have integrated 3-hours emergency options, ensuring that the communal areas are sufficiently illuminated even without mains power.

Products Used







EMLED



LUNAR



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Over 50 years Lighting for a Living











