

# EMERGENCY LIGHTING

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the what, the why  
and the how

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Brought to you by **Powercor**  
Specialists in Emergency Lighting



# eBook Contents

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**powercor**

One of the UK's leading specialists  
in Emergency Lighting and LED  
installations



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# Emergency lighting

## - a health & safety must have

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You have a **duty of care** towards the occupants of your property, including offices, schools, warehouses and hotels.

Should your main lighting fail due to a fire or other emergency, you'll want to be sure that can **quickly and safely** exit the buildings.

Emergency lighting is a **legal requirement**, and why an audit of your site could be critical.



# What is emergency lighting?

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Legislation mandates that all occupied buildings have adequate escape lighting, allowing for safe exit should mains power fail. Escape and exit routes in UK buildings must be lit to a minimum of one lux during an emergency.

Key benefits to your of a fully compliant system:

- Your property meets its emergency lighting **legal obligations**
- Everyone in the building is protected in the event of main power failing and where a rapid exit from the school is **required**

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# What are the regulations?

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The British Standard **BS 5266-1** sets out minimum requirements and clear guidelines for implementing key emergency lighting regulation. The Standard covers properties such as schools and colleges, hotels, hospitals, offices and multi-storey dwellings. BS EN 50172 also stipulates that monthly, short duration tests and yearly full duration tests are also required.

## What emergency lighting do you need?

Emergency lighting covers two broad areas: **emergency escape lighting** and **standby lighting**.

**Emergency escape lighting** is a legal requirement and covers:

- ✓ **Escape route lighting:** illumination for an escape route, including fire exit signs
- ✓ **Open area lighting:** illumination to reach an escape route
- ✓ **High risk task area lighting:** ensures the safety of people involved in potentially dangerous activity and enables correct shut-down procedures

**Standby Lighting** is not a legal requirement, but enables normal activities to continue substantially unchanged.

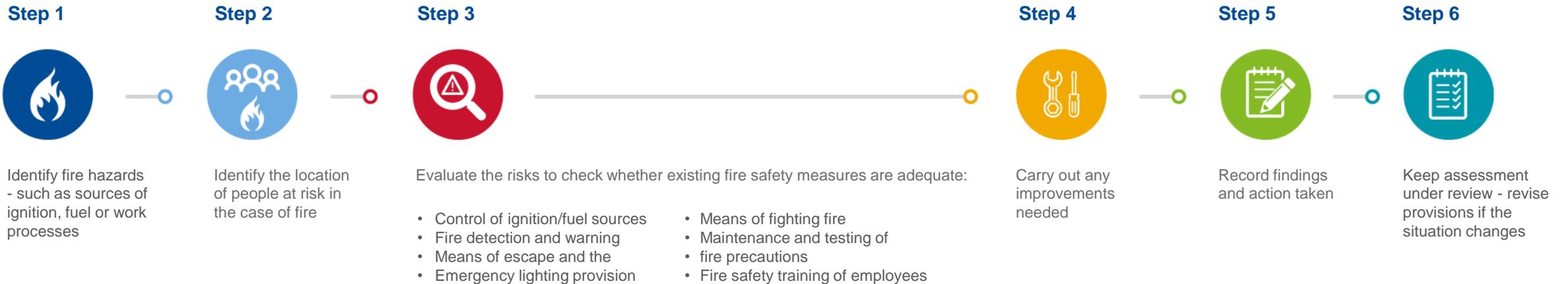
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# Designing your emergency lighting installation

A thorough design process will be comprehensive and tailored to the needs of your school's safety requirements and building configuration

## Emergency Design Process



# Key emergency lighting

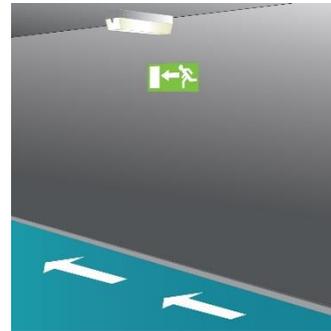
## – ‘points of emphasis’

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Your emergency lighting will be designed and installed around your specific ‘points of emphasis’, which include:



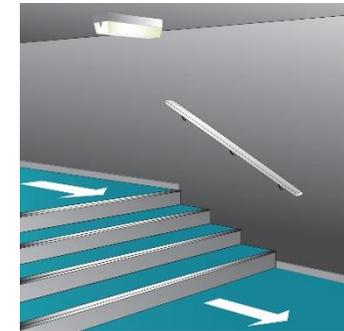
At each exit door



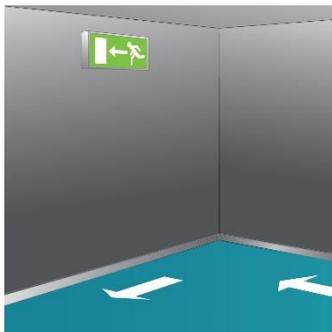
Along escape routes



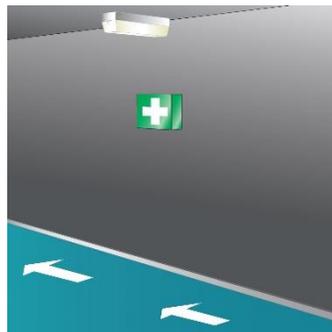
Outside the final exits and to a place of safety



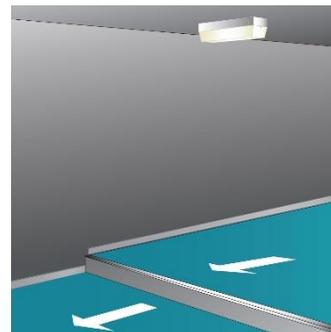
Near stairs so that each tread receives direct light



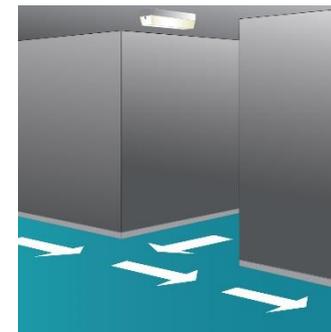
At each change of direction



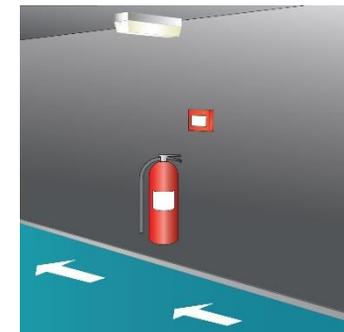
Near each first aid post



Near any other change of floor level



At each intersection of corridors



Near each piece of fire fighting equipment and call point

# Ensuring a compliant system

## Top 6 components of a compliant emergency lighting system:

- ✓ **Luminaires located at mandatory 'points of emphasis' and exits**  
For example, exit signs of the correct format and size should be placed at exit doors, outside fire exits and near first aid points.
- ✓ **Luminaires located at essential areas in the building**  
For example, toilets, kitchens, fire equipment, first aid and treatment rooms.
- ✓ **Lighting along all escape routes**
- ✓ **Lighting within open areas**  
Includes areas larger than 60m<sup>2</sup>, areas with an escape route passing through them, rooms of <60m<sup>2</sup> with an "inner room", or areas with hazards identified by the building risk assessment.
- ✓ **Tailored lighting for high risk task areas**  
For example, plant and production lines or control rooms that manage critical processes.
- ✓ **Regular testing capacity**  
Including monthly function and annual discharge tests.



# Powercor's emergency lighting – see the difference

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Powercor can bring you the very latest in Emergency Lighting solutions. The benefits to you include:

## Technical support



Advantage Lifetime Support including complimentary software upgrades and training.

## Saving time and money



Remote system checks and no need for new cabling reduces set-up time/cost and removes the need for monthly physical checks.

## Guaranteed lifetime lighting



Lithium battery technology means luminaires have an expected service life of 6 to 12+ years, compared to 3 - 4 years with many of today's acid-based batteries

## Continuous compliance and reporting



Compliance reports produced at the touch of a button and automated monitoring means no drop off in compliance standards.

## Light as a service



Providing design, installation, monitoring and maintenance with no upfront cost, and a fixed monthly fee, that can often be funded from maintenance savings.



# Powercor – state of the art technology



Powercor's state of the art emergency lighting management system is a web based software platform that manages all compliance requirements for you.

The system monitors each luminaire remotely and provides automatic monthly test scheduling and reporting.

Following each test, clients receive a detailed report listing the performance of every luminaire with recommended actions.

ID	Reference	Product Code	Description	Asset Code	Building	Floor	Location	Test Time	Req Duration	Test Duration	Result	Fault Reason
4	VIC-F4-G-01	LLIFE-PRO-ZW	L10 Lifelight PRO, Recessed, 60mm Round head, White, Zoneworks		4	Ground	Lunch Room	24/10/2018 10:53:54	90	228	Pass	
5	VIC-F4-G-02		LUBLED - L10 Ultrablade		4	Ground	Near Lunchroom	24/10/2018 10:53:54	90	240	Pass	
6	VIC-F4-G-03		LLIFE-PRO - L10 Lifelight Pro		4	Ground	Production Engineering	24/10/2018 10:53:54	90	0	Failed	Lamp Failure
7	VIC-F4-G-05		LLIFE - L10 Lifelight		4	Ground	PCB Area	24/10/2018 10:53:54	90	216	Pass	
8	VIC-F4-G-06		LUBLED - L10 Ultrablade		4	Ground	PCB Area	24/10/2018 10:53:54	90	240	Pass	
17	VIC-F4-G-09		CLIFE-PRO - LP Lifelight Pro		4	Ground	Corridor from Office Area to Factory	24/10/2018 10:53:54	90	0	Failed	Lamp Failure
18	VIC-F4-G-07		CLIFE-PRO - LP Lifelight Pro		4	Ground	Surface Mount Production Room	24/10/2018 10:53:54	90	0	Failed	Lamp Failure
19	VIC-F4-G-08		CUBLED - LP Ultrablade		4	Ground	Front Office Area	24/10/2018 10:53:54	90	184	Pass	
20	VIC-F4-L1-03		CLIFE-PRO - LP Lifelight Pro		4	Level 1	Reception	24/10/2018 10:53:54	90	192	Pass	
21	VIC-F4-L1-02		CUBLED - LP Ultrablade		4	Level 1	Waiting Area	24/10/2018 10:53:54	90	143	Pass	



# Case Study: St George's College

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Powercor installed a state of the art emergency lighting system, powered by the latest lithium battery technology, that meets all compliance needs including regular, automatic testing.

The system is now centrally monitored and tested by the school's facility management. Live feedback on the status of their emergency lighting is provided.

In line with compliance standards, St George's can also set regular, automatic test schedules at a time convenient for them.

## RESULTS

- Guaranteed for at least 7 years
- Fully compliant with BS 5266 and BS EN 50172
- Remote monitoring and testing with live feedback on emergency lighting status.
- Maintenance cost saving of £34,500 over 7 years.

*"Thanks to Powercor and our new compliant emergency lighting system, we are now even more confident about the safety of children, teachers and all other visitors to our school."*

**Errol Minihan - Facilities Manager & Health and Safety Chairman, St Georges College and Junior School**



# Powercor – delivering the solution you need

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Powercor is an award-winning company, delivering sustainable and efficient energy solutions for private and public clients. We have worked extensively with schools and businesses to upgrade their lighting and power systems, and install the very latest emergency lighting solutions.

With over 10 years' experience in the energy efficiency sector, we empower customers to maximise their benefit from lighting and energy solutions whilst reducing energy consumption and saving money.

With a dedicated team of technicians and engineers, we manage all of your energy needs – from lighting and sustainable energy to infrastructure and safety.

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## Why Powercor?

- Award winning
- 10+ years working with schools
- Certified Value Added Partner of Phillips Lighting
- One of the UK's leading specialists in Emergency Lighting and LED installations
- In-house team of engineers

**See our video for more:**

