



# Fully Automated Emergency Lighting System

No Wires. No Restrictions. No Limits.



No Wires.

No Restrictions.

No Limits.





# Simplify the maintenance of your emergency lighting.











MEET LEGISLATIVE REQUIREMENTS

MONITOR BATTERY HEALTH

FULL REPORTING IN REAL TIME

INDEPENDENT WIREPAS NETWORK

NO MONTHLY FEES

All industrial, commercial and public buildings require emergency lighting, which needs to be regularly inspected and tested. Meeting legislative requirements is very labour intensive, especially if you **maintain multiple facilities.** 

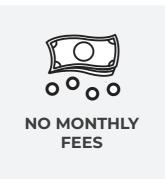
Simplify the process with BLE Connect, our new **Fully Automated Emergency Lighting System.** 

BLE Connect operates using a self healing wireless mesh. Each luminaire automatically detects its neighbour to build the network. If a device is added, removed, or fails, the network will automatically re-organise and find the most efficient route.

# What are the benefits of BLE Connect?





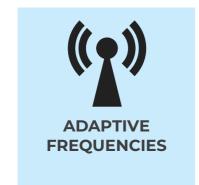




















# What are the benefits of BLE Connect?

#### **SELF HEALING WIRELESS MESH**

Each luminaire automatically detects its neighbour to build the network. If a device is removed or fails, the network will automatically re-organise and find the most efficient route.

#### **EASY INSTALLATION**

With no additional wiring, the system facilitates a straightforward installation.

#### **NO MONTHLY FEES**

BLE Connect has no ongoing monthly or subscription fees.

#### MONITOR BATTERY HEALTH

A battery reaching the end of its life can be replaced prior to failure.

#### **HIGHLY SECURE**

In the wireless mesh all messages are encrypted and authenticated. The nodes are only discoverable by our router.

#### **NO SINGLE POINT OF FAILURE**

There are numerous connection possibilities across the network, meaning no single device is relied upon. If one fails, another device will maintain the connection.

#### PREDICTIVE MAINTENANCE

Knowing about any fault prior to arriving on site offers a time saving advantage.

#### **ADAPTIVE FREQUENCIES**

BLE Connect avoids interference by dynamically switching channels when needed.

#### **MANAGE MULTIPLE FACILITIES**

The user friendly portal allows for the easy maintenance of multiple facilities, with the ability to view each location and drill down to individual luminaires.

#### **UNLIMITED CONNECTIONS**

There is literally no limit on the number of devices that can be used in a network.

#### **REAL TIME REPORTING**

BLE Connect reports faults in real time and sends alerts to the designated responsible person by email or via the user portal.

#### INDEPENDENT WIREPAS NETWORK

BLE Connect uses a secure Wirepas self-healing network, independent from internal networks.

...LEADING TO FULL PEACE OF MIND





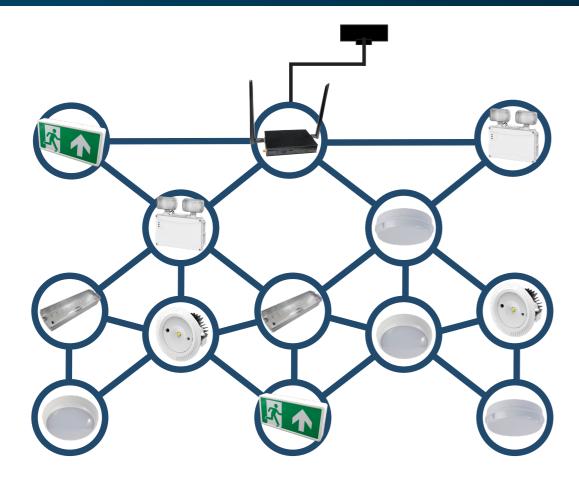


# How does BLE Connect work?



#### **DECENTRALISED OPERATION**

The core of the technology is 'decentralised' operation. We distribute all network management tasks to each device in the network. Devices are smart enough to make all decisions locally. Based on the local measurements, they decide how to form, maintain and operate the network. Every device can be a router at any time and can send and receive data within the network.



#### **SELF HEALING WIRELESS MESH**

Each luminaire automatically detects its neighbour to build the network. If a device is added, removed, or fails, the network will automatically re-organise to find the most efficient route.

There are numerous connection possibilities across the network, meaning no single device is relied upon. If one fails, another device will maintain the connection.



# How does BLE Connect work?

#### WHAT MAKES BLE CONNECT **VERSATILE?**

#### Range and density

BLE Connect utilises the Wirepas protocol.

The mesh uses the most modern radio technology. The 2.4GHz profile has a maximum range of 100 metres (approx) between fittings, ideal for large sites and institutions.

#### Communication

BLE Connect supports all communication directions – uplink, downlink, node to node - and addressing modes - unicast, multicast, broadcast.

#### Security

Every transmitted message can be encrypted with a unique AES-128 key.

#### WHAT MAKES BLE CONNECT **RELIABLE?**

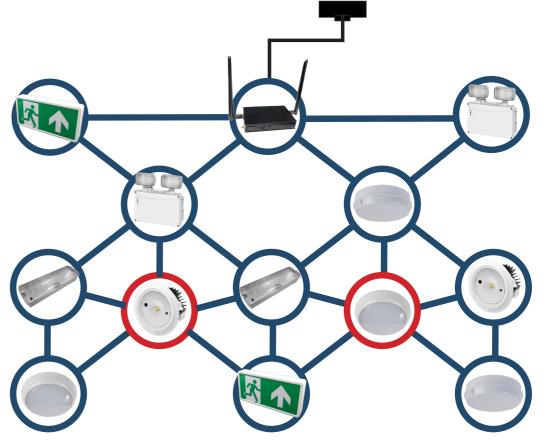
#### No single point of failure

Any device can be a router leading to multiple possible connections. Gateways are fully mutualised - in case one drops, another maintains the connection.

#### **Adaptive Frequency Agility**

BLE Connect avoids interference by dynamically switching channels when needed. It offers frequency agility on several channels and short time onair (i.e 40 channels at 1mbps in BLE Connect Mesh 2.4Ghz).

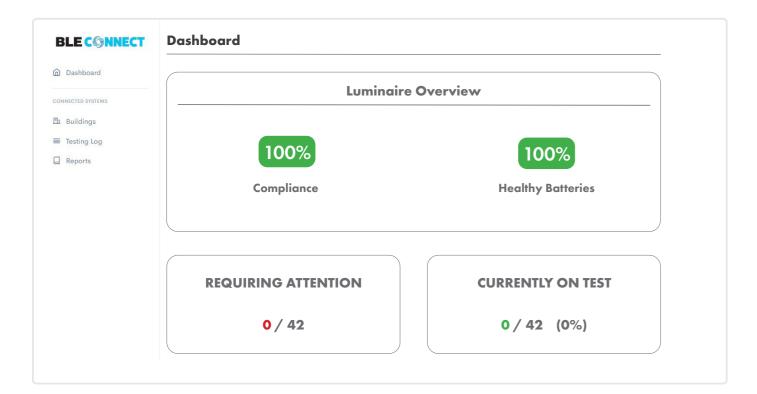
- · Listen Before Talk (LBT)
- Adaptive transmit power
- · Local multi-channel interference avoidance



The system automatically re-organises if a luminaire fails.



# How do I use the BLE Connect portal?



#### View all building and luminaires

Designed with simplicity in mind, the BLE Connect Portal can be easily accessed online from any device.

Every building being maintained by a customer can be viewed, with details of each individual luminaire within.

Each luminaire has a unique identifier with the ability to then see if it has passed the latest monthly or annual test, along with other key information (detailed on pages 10 - 11).

#### A dashboard view

A simple dashboard view is available for each building, showing the percentage of healthy and failed fittings along with the battery health, allowing for planned maintenance.



# (iii) How do I use the BLE Connect portal?

#### What can I do within the BLE Connect portal?

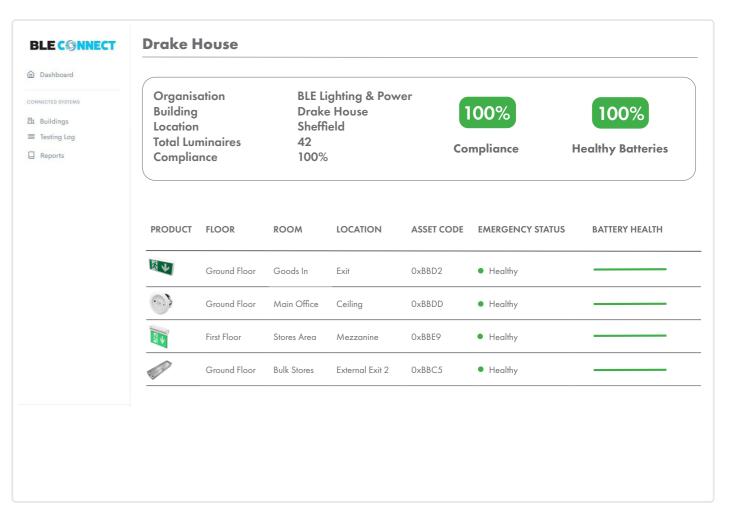
Users within the BLE Connect portal are given access to all the areas required to manage and maintain their emergency lighting. This includes adding new fittings to a building and viewing the status of every luminaire.

The BLE Connect team are on-hand to assist with additional requirements and settings.



#### **Reports**

All information can be viewed within the portal in real time. Users can also set up individual reports that can be emailed, at a time defined by the user, with the results following each monthly or annual test.





What does BLE Connect report on?

# Everything you need to know about the status of your emergency lighting



#### **LUMINAIRE STATUS**

A simple indicator system advises if each luminaire is operational and has passed the latest functional test.



#### **LUMINAIRE LOCATION**

The location of each luminaire across all sites can be viewed from the portal.



#### **LIGHT SENSOR**

BLE Connect can sense if the light is present from the LEDs as well as checking the mains supply is present.



#### **PERFORM A TEST**

A simple click will instruct a luminaire or site to perform an unscheduled test.



#### **BATTERY HEALTH**

**BLE Connect uniquely** reports on battery health, providing advanced warning when battery health is low.



#### **TESTING SCHEDULE**

The schedule can be seen at a glance showing the last performed test for each luminaire and when the next is due.



What does BLE Connect report on?

# Plan maintenance of your emergency lighting with realtime information



#### **LINK TO REPLACEMENT ITEM**

In the event of a failed luminaire, a link to a replacement item is available.



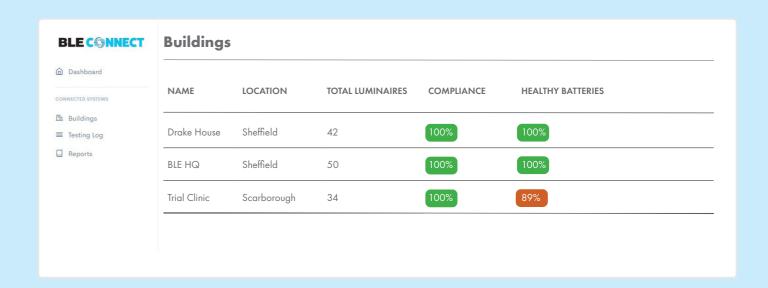
#### **HISTORIC TEST RECORDS**

Historic test records are held for each luminaire and can be viewed or downloaded.

For full details on how to manage the **BLE Connect** portal please refer to our Portal Guide.

Speak to the sales team for your copy.

01246 432325





# Why choose BLE Connect?

Made in Sheffield with over 50 years of experience, you can be sure of a reliable system that meets your legislative requirements and provides compliant reporting.



With no ongoing monthly or subscription fees you can be sure of a cost effective solution.



# Our Package



# No Monthly Fees

We don't charge monthly fees for BLE Connect. We'll get everything set up initially and then you're free to use the BLE Connect portal along with any future updates.

£0



# No Subscription Fees

Access to the BLE Connect server is included for the first 10 years, with nothing to pay at all, and only a nominal fee after this point.

£0



# Service Package

Our service packages are tailored to meet the individual needs of our customers. Contact our team to discuss what BLE can do for you.

POA



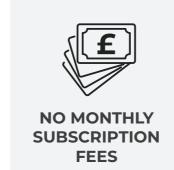
# What is the ROI on BLE Connect?

BLE Connect doesn't just offer a compliant and straightforward solution for the maintenance of emergency lighting, it also offers an opportunity for making substantial cost savings.



From having no monthly or annual subscription fees, through to saving on expensive professional electrician fees for monthly and annual testing, BLE Connect has an incredible return on investment.

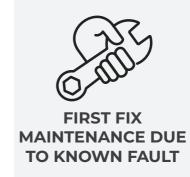
Below we highlight some of the cost saving opportunities.













#### **COST SAVING OVER FIVE YEARS BASED ON 50 EMERGENCY LUMINAIRES**



£5,455

Annual Cost Saving



£18,485

5 Year Cost Saving



18 Months

Return on Investment



# Where can I use BLE Connect?

BLE Connect is a versatile and flexible system that can be used in any application, from a small office building to a large airport or multi-building application.

The luminaires on a BLE Connect system do not need wiring between them, as the wireless mesh allows them to make the connection. This makes BLE Connect particularly suitable for listed buildings where restrictions can make it difficult to add additional wiring. Luminaires in separate buildings, that are in close proximity to each other, form part of the same network giving whole site visibility.

For more information on how to configure your system, speak to our experienced team of sales engineers who can guide you through this process.



















# Which products are **BLE Connect enabled?**



Our range of BLE Connect products are detailed on the following pages.

If your requirement is of a bespoke nature, speak to our team of experts to discuss where we can support requirements for BLE Connect compatibility.

CALL 01246 432325



# **BLE Connect Enabled Products**

#### **NORFOLK**

**EMERGENCY BULKHEAD** 





CODE	DESCRIPTION	
EL-110150-CT	NORFOLK Emergency Bulkhead - IP65 - Maintained/Non-maintained - LiFePO4	

#### **HOLLINSEND**

**RECESSED EMERGENCY BULKHEAD** 











CODE	DESCRIPTION	
EL-110404-BR-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Brass - Prismatic Diffuser - MIB	
EL-110404-CH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Chrome - Prismatic Diffuser - MIB	
EL-110404-WH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - White - Prismatic Diffuser - MIB	
EL-110408-BR-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Brass - Opal Diffuser - MIB	
EL-110408-CH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - Chrome - Opal Diffuser - MIB	
EL-110408-WH-CT	HOLLINSEND Maintained/Non-maintained - LiFePO4 - White - Opal Diffuser - MIB	

### **STANNINGTON**

**EMERGENCY TWIN SPOT** 





CODE	DESCRIPTION	
EL-142250-CT	STANNINGTON LED Emergency Twin Spot - 4W - IP65 - LiFePO4	

## **RICHMOND**

**EMERGENCY DOWNLIGHT** 





CODE	DESCRIPTION
EL-152450-WH	RICHMOND LED Emergency Downlight - IP20 - Non-Maintained - LiFePO4 - White - Dia 70mm
EL-152450-BL	RICHMOND LED Emergency Downlight - IP20 - Non-Maintained - LiFePO4 - Black - Dia 70mm

## **THORNCLIFFE**

**EMERGENCY EXIT BOX** 





CODE	DESCRIPTION	
EL-131350-CT	THORNCLIFFE LED Emergency Exit Box - LiFePO4	

#### **BINGHAM**

**EMERGENCY HANGING** 

**EXIT SIGN** 









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CODE	DESCRIPTION
EL-132001-BL-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - Black - LiFePO4 - MIB
EL-132001-BR-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - Brass - LiFePO4 - MIB
EL-132001-CH-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - Chrome - LiFePO4 - MIB
EL-132001-WH-CT	BINGHAM Hanging Exit Sign - Including Arrow Legend - White - LiFePO4 - MIB

## **PARKWOOD**

**EMERGENCY EXIT SIGN** 













CODE	DESCRIPTION
EL-133804-BR-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - Brass - LiFePO4 - MIB
EL-133804-CH-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - Chrome - LiFePO4 - MIB
EL-133804-WH-CT	PARKWOOD Recessed Exit Sign - Including Arrow Legend - White- LiFePO4 - MIB

# **BLE Connect Enabled Products**



CODE	DESCRIPTION
EL-121004-BR-M3-CT	CHELSEA Circular Amenity Light - IP20 - Opal Diffuser - Brass - LiFePO4 - 3CCT - MIB
EL-121004-BR-M3-MW-CT	CHELSEA Circular Amenity Light - IP20 - Opal Diffuser - Brass - LiFePO4 - 3CCT - Microwave Sensor - MIB
EL-121004-CH-M3-CT	CHELSEA Circular Amenity Light - IP20 - Opal Diffuser - Chrome - LiFePO4 - 3CCT- MIB
EL-121004-CH-M3-MW-CT	CHELSEA Circular Amenity Light - IP20 - Opal Diffuser - Chrome - LiFePO4 - 3CCT - Microwave Sensor - MIB
EL-121004-WH-M3-CT	CHELSEA Circular Amenity Light - IP20 - Opal Diffuser - White - LiFePO4 - 3CCT- MIB
EL-121004-WH-M3-MW-CT	CHELSEA Circular Amenity Light - IP20 - Opal Diffuser - White - LiFePO4 - 3CCT - Microwave Sensor - MIB

## **OXLEY** CIRCULAR AMENITY LIGHT





CODE	DESCRIPTION
EL-120651-M3-CT	OXLEY Circular Bulkhead - 15W - IP54 - 3CCT - White - Opal Diffuser - LiFePO4
EL-120651-M3-MW-CT	OXLEY Circular Bulkhead - 15W - IP54 - 3CCT - White - Opal Diffuser - LiFePO4 - Microwave Sensor
EL-120651-M3-SD-CT	OXLEY Circular Bulkhead - 15W - IP54 - 3CCT - White - Opal Diffuser - LiFePO4 - Step Dim Microwave Sensor

# **DORE DIECAST AMENITY LIGHT**





CODE	DESCRIPTION
EL-120801-M3-CT	DORE Diecast Circular Eyelid Amenity Light - 14W - 1P65 - Black - Opal Diffuser - LiFePO4 - MIB
EL-120801-M3-MW-CT	DORE Diecast Circular Eyelid Amenity Light - 14W - 1P65 - Black - Opal Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120801-M3-DD-CT	DORE Diecast Circular Eyelid Amenity Light - 14W - 1P65 - Black - Opal Diffuser - LiFePO4 - Photocell - MIB

## **ENDCLIFFE**

**CIRCULAR AMENITY LIGHT** 







CODE	DESCRIPTION
EL-120701-WH-M3-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - White Base - Opal Diffuser - LiFePO4 - MIB
EL-120701-WH-M3-MW-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - White Base - Opal Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120701-WH-M3-DD-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - White Base - Opal Diffuser - LiFePO4 - Photocell - MIB
EL-120701-BL-M3-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - Black Base - Opal Diffuser - LiFePO4 - MIB
EL-120701-BL-M3-MW-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - Black Base - Opal Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120701-BL-M3-DD-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - Black Base - Opal Diffuser - LiFePO4 - Photocell - MIB
EL-120702-WH-M3-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - White Base - Prismatic Diffuser - LiFePO4 - MIB
EL-120702-WH-M3-MW-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - White Base - Prismatic Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120702-WH-M3-DD-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - White Base - Prismatic Diffuser - LiFePO4 - Photocell - MIB
EL-120702-BL-M3-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - Black Base - Prismatic Diffuser - LiFePO4 - MIB
EL-120702-BL-M3-MW-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - Black Base - Prismatic Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120702-BL-M3-DD-CT	ENDCLIFFE Circular Amenity Light - 14W - IP65 - Black Base - Prismatic Diffuser - LiFePO4 - Photocell - MIB

## **WHIRLOW**

**SQUARE AMENITY LIGHT** 





CODE	DESCRIPTION
EL-120901-WH-M3-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - White Base - Opal Diffuser - LiFePO4 - MIB
EL-120901-WH-M3-MW-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - White Base - Opal Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120901-WH-M3-DD-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - White Base - Opal Diffuser - LiFePO4 - Photocell - MIB
EL-120901-BL-M3-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - Black Base - Opal Diffuser - LiFePO4 - MIB
EL-120901-BL-M3-MW-CT	WHIRLOW Square Amenity Light - 14W - IP65 - Black Base - Opal Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120901-BL-M3-DD-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - Black Base - Opal Diffuser - LiFePO4 - Photocell - MIB
EL-120902-WH-M3-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - White Base - Prismatic Diffuser - LiFePO4 - MIB
EL-120902-WH-M3-MW-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - White Base - Prismatic Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120902-WH-M3-DD-CT	WHIRLOW Square Amenity Light - 14W - 1P65 - White Base - Prismatic Diffuser - LiFePO4 - Photocell - MIB
EL-120902-BL-M3-CT	WHIRLOW Square Amenity Light - 14W - IP65 - Black Base - Prismatic Diffuser - LiFePO4 - MIB
EL-120902-BL-M3-MW-CT	WHIRLOW Square Amenity Light - 14W - IP65 - Black Base - Prismatic Diffuser - LiFePO4 - Microwave Sensor - MIB
EL-120902-BL-M3-DD-CT	WHIRLOW Square Amenity Light - 14W - IP65 - Black Base - Prismatic Diffuser - LiFePO4 - Photocell - MIB

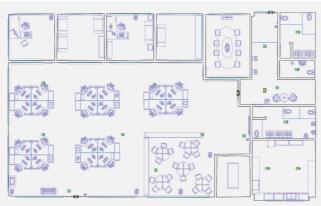


Can I see BLE Connect in use?

# See BLE Connect in operation at our Sheffield premises

BLE Lighting & Power Ltd is a typical small/medium sized business with offices, warehousing and production areas. There are approximately 50 emergency luminaires across the site.

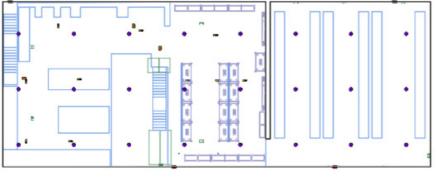




Offices

#### **BLE Lighting & Power Ltd, Sheffield**





Warehousing and Production



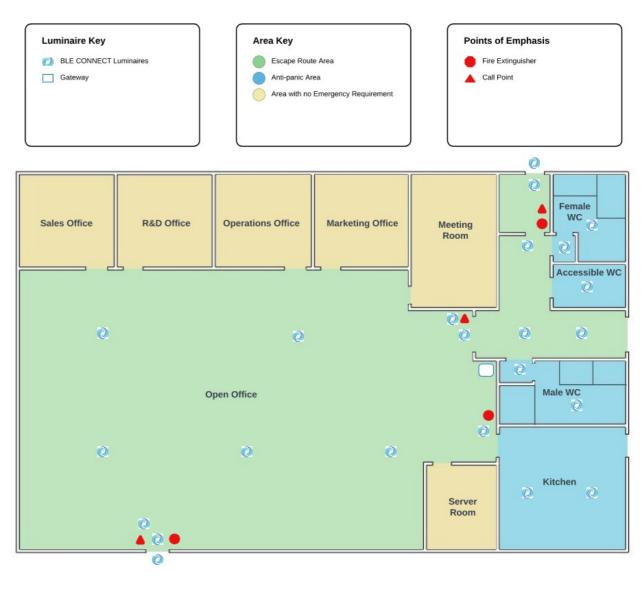
# Can I see BLE Connect in use?

#### **OUR FIRST LIVE SITE**

Each emergency luminaire at BLE has been installed with BLE Connect and can be viewed on the BLE Connect online portal.

We now have the ability to instruct each luminaire or the full site to perform a test and can view the results instantly after the test is completed.

We have easy access to the status of each luminaire, the battery health and can easily see test logs and historic records.





**Check luminaire** 

status









Perform a test

health

View test log

**Historic records** 



# How do I make an enquiry for BLE Connect?

# About BLE Lighting & Power Ltd

# We offer a full turnkey solution



Design



Manufacture





Installation





Supply

Commissioning

# **How to begin using BLE Connect**

- Contact BLE Lighting & Power to make an enquiry -01246 432325 / sales@blelighting.co.uk
- Book a site survey with your local lighting engineer to 2. discuss your requirements
- Following a planning meeting, proposal to meet your project requirements Following a planning meeting, BLE will produce a
- A quote will be produced for the elements required
- An engineer from BLE will visit site to commission 5 the system
- Begin using BLE Connect fully compliant and hassle free!



BLE Lighting & Power Ltd is a specialist in supplying and manufacturing emergency lighting and back-up power equipment. We are committed to delivering high quality products and services, and with over 50 years experience, we have the technical expertise and knowledge on industry and legislative standards to ensure that we are supplying you with a fully compliant product.

BLE Lighting & Power Ltd is able to utilise our 50 years industry experience and vast in-depth knowledge of the emergency lighting industry standards to advise and support you, ensuring you have high quality systems and products in place in case of an emergency situation. With the increased focus on safety equipment

functionality and the importance of being able to evacuate buildings safely, here at BLE we aim to make your life easier and assist you in meeting all current legislation for emergency lighting. It is this attention to the finer details coupled with such a wide offering of emergency lighting and back-up power solutions which helps differentiate us from other suppliers.

At our production facility in Sheffield, we manufacture and assembles a range of Made in Britain lighting products and Inverters.



## **BLE Lighting & Power Ltd specialises in:**

Emergency Lighting

Exit Signs

Amenity Lighting

Static Inverters

Central Battery Units

SLA Batteries





#### **BLE Lighting & Power Ltd**

Unit 3 Drake Business Park, Drake House Crescent, Sheffield, S20 7HT

Tel: 01246 432325 Email: sales@blelighting.co.uk Web: www.blelighting.co.uk



WATCH THE BLE CONNECT VIDEO