Clevertronics

2022 Product Catalogue

Second Edition

Contents

Our Vision

To be known as the most reliable and trusted emergency lighting company in the world.

Our Mission

To make emergency lighting easy by designing world-class products that are supported with unrivalled expertise and customer service.

Clevertronics is an Australian emergency lighting specialist that operates across Australia, New Zealand and the United Kingdom.

We make Emergency Lighting easy.

Our mission to make emergency lighting easy continues to drive us to develop the best outcome for all stakeholders. With our dedicated research and development teams, Clevertronics is positioned to continue its leadership position in emergency lighting solutions.

Whether you're a specifier, facility manager, end user, or electrical contractor, our goal is to ensure that we understand your needs and assist you in delivering the outcomes you're after.

Clevertronics has built a global reputation for our innovation and leadership in emergency lighting over the past twenty years. Our recent release of the latest Zoneworks XT HIVE system is a major game changer, simplifying every step of the emergency lighting process and, most importantly, reducing the total cost of compliance.

However, what I am most proud of is the culture of customer care that exists throughout the entire company. Our customers remain our main priority, and our goal is to deliver you the highest level of product quality, service and support.

We look forward to sharing our continued success with you.

Tony Todaro
Managing Director and Owner

We are the home of Emergency Lighting

Clevertronics is an Australian emergency lighting specialist that operates across Australia, New Zealand and the United Kingdom. Our head office located in Melbourne features state-of-the-art product development and manufacturing to support the continuing growth of the business.
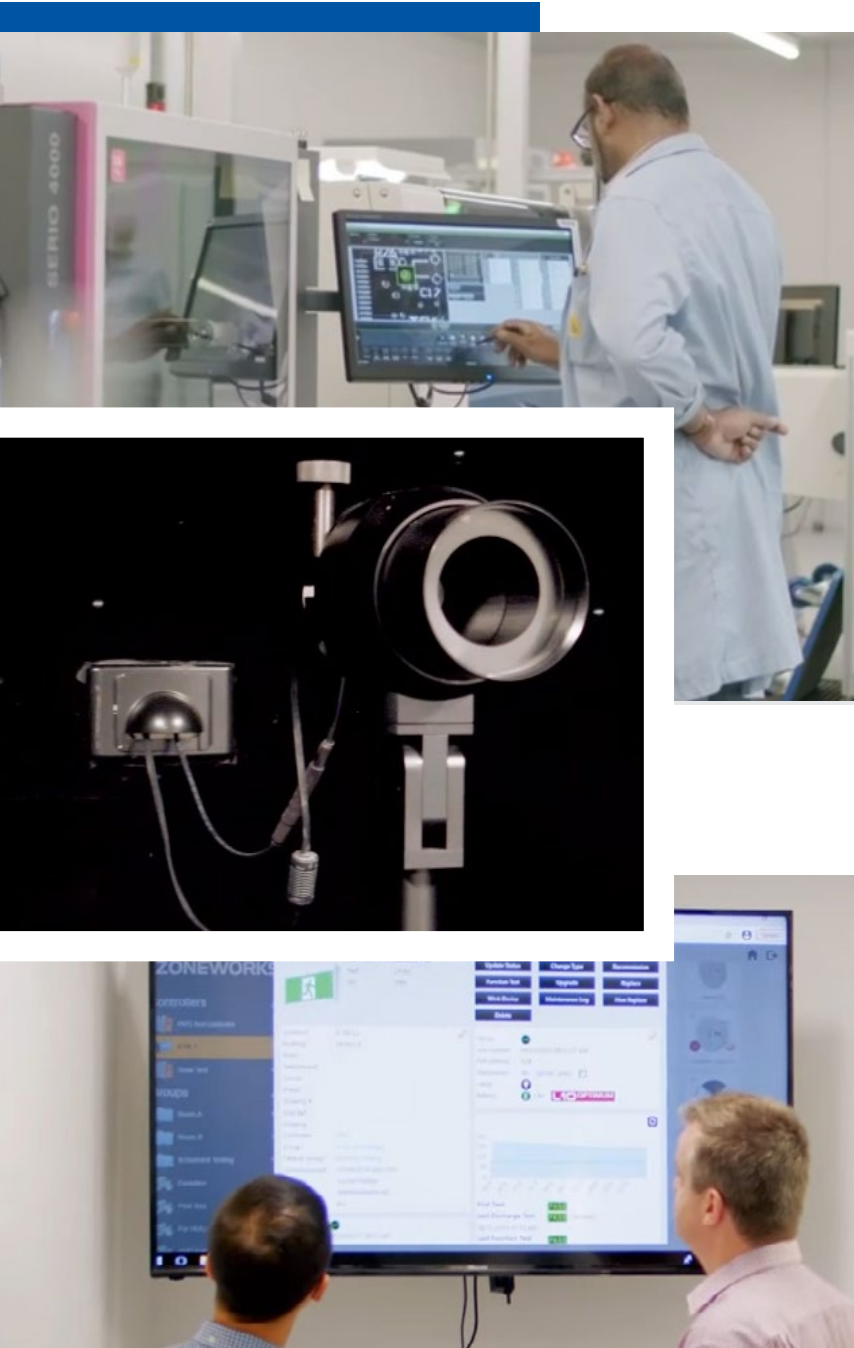
We Embrace and Lead Innovation

Innovation features in many parts of our business, including luminaire design and functionality, world-class monitoring systems, and also how we support customers to learn, source, install and manage emergency lighting. One of the key innovations that revolutionised the emergency lighting market was the release of our L10 Lithium Nanophosphate range. Traditional emergency lighting maintenance costs have been expensive to manage due to poor battery life, resulting in non-compliance.

However, the introduction of the L10 Nanophosphate range increased luminaire lifetimes from four years to twelve years, resulting in over 80% maintenance savings compared to the available alternatives and a massive improvement in building compliance.

Our Systems

Managing the compliance of emergency lighting is critical and to do this effectively Clevertronics developed a world-leading automatic monitoring and testing system in Zoneworks XT HIVE.

The Zoneworks platform is installed and operational across 2500 sites around Australia, New Zealand and the UK. All Zoneworks systems are backed by a complimentary Advantage Lifetime Support program designed to help the building owner and maintenance contractor manage ongoing emergency lighting and associated costs.

Our Unique Capabilities

We design, prototype and test all our luminaires and systems from our new state-of the-art head office in Melbourne, Australia. Our research and product development area consists of photometric laboratories, thermal testing chambers and long-term elevated temperature test rooms which assist us in releasing product to market in a fast and effective manner. We have manufacturing capabilities in Melbourne and Shanghai, catering to high volume and specialised requirements.

Our Expertise

Our extensive expertise in understanding emergency lighting standards and application requirements has resulted in 1000's of specialised luminaires being designed and manufactured for installation in projects like tunnels, heritage buildings, places of interest, harsh environments, stadia, rail infrastructure and many other applications. If you have a challenging application, we will be excited to create a solution for you.

Our Projects

Clevertronics has supported our customers in the process of installing and upgrading emergency and exit lighting in thousands of small, medium and large sized facilities across Australia, New Zealand and the UK. All projects are given the support they require no matter what size. Customer satisfaction is of utmost importance to the Clevertronics team.

We are proud to be installed in many global landmark facilities including the Sydney Opera House, Melbourne Cricket Ground, Optus Stadium and Westminster Abbey as well as major hospitals, shopping centres, universities, correctional facilities and high-rise developments.

When you are installing or upgrading emergency lighting, you want the process to be easy, and Clevertronics delivers on this every time.

Our Emergency Lighting Solutions

Clevertronics have a wide range of exit, emergency, circulars, bulkheads and linears to satisfy various applications and industries. Whether you require architectural, weatherproof, low temperature, or a custom luminaire for a specific requirement, we are here to support you. All our luminaires are tested and comply with BS EN 60598-2-22 standards.

The Clevertronics Project Advantage

Many projects require custom designed product, finishes or specific performance requirements. Our team of product and system engineers lead the emergency lighting world in many areas and are ready to apply that expertise to your project.

Experts in Engineering a Solution

Clevertronics has in-house thermal and photometric testing facilities which enables us to test and evaluate custom products and retro-fit conversions prior to any formal certification. Clevertronics can manage the official testing and approval process for third party fit-outs if required.

Comprehensive Range

Our full product offering is extensive. We have two dedicated ranges, CLP and L10 spanning all emergency, exit and linear luminaires. All ranges are available with testing options including Clevertest Plus, Zoneworks XT HIVE, and DALI. This is supplemented by the ability to build custom project specific fittings and conversion of 3rd party fittings where required.

We have offices located in Australia, New Zealand and the UK

Our office in London has dedicated customer service and technical resources ready to support you on your next emergency lighting project or enquiry.

Clevertronics Head Office in Melbourne, Australia.

Key Product Selection Criteria

1 Select Your Range

- CLP & L10

2 Select Test Option

- ClevertestPlus System
- Zoneworks XT HIVE
- DALI

3 Select Type & Style

- Exits
- Dynamic Exit Signage
- Emergency Lighting
- Circular & Bulkheads
- Linears

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

DALI

ZONEWORKS XT HIVE

Clevertest Plus System

Exits
Cleverfit
Cleverfit Pro
Form
Ultrablade Pro Surface Mount
Ultrablade Pro Recessed
Ultrablade Pro Rod Suspended
Jumbo
Gigantor
Weatherproof Wall Mount
Weatherproof Universal 50M
Low Temperature
Vandal Resistant

Dynamic Exits
Dynamic Green
Dynamic Red X
Dynamic Green Blade
Dynamic Red X Blade

Emergency Lighting
Lifelight
Lifelight Surface Mount
Lifelight IP44 Splashproof
Lifelight Surface Mount Weatherproof
Lifelight Pro Recessed
Lifelight Pro Surface Mount
Lifelight Pro Cylinder Surface Mount
Lifelight Pro Weatherproof Cylinder
Lifelight Pro IP44 Splashproof
Lifelight Pro Surface Mount Weatherproof
Low Temperature
Weatherproof Emergency Pod
Supalite

Circular & Bulkhead
Argonaut Square
Premium Circlite
Bulklite
Bunkalite
DISC

Linears
Weatherproof
Argonaut Plus
Argonaut Pro
Argonaut Vandal Resistant

Selecting the Right Lithium Powered Product

There are many types of batteries used in emergency lighting and it is important to understand the strengths and weaknesses of each battery chemistry to ensure you can get maximum value from your product.

Older battery technology such as Sealed Lead Acid, Nickel Metal Hydride and Nickel Cadmium provide inferior performance and carry significant environmental impacts compared to Lithium Iron Phosphate (LiFePO$_4$) batteries.

CLP LITHIUM IRON PHOSPHATE

PREMIUM

PROVEN PROJECT PERFORMANCE

- **Australia's No1 selling emergency lighting range**
- **Over 50% maintenance savings vs NiCd**
- **Standard Clevertest Plus**

The CLP range is the proven project performer that combines Lithium Iron Phosphate battery technology with premium electronics and LED technology.
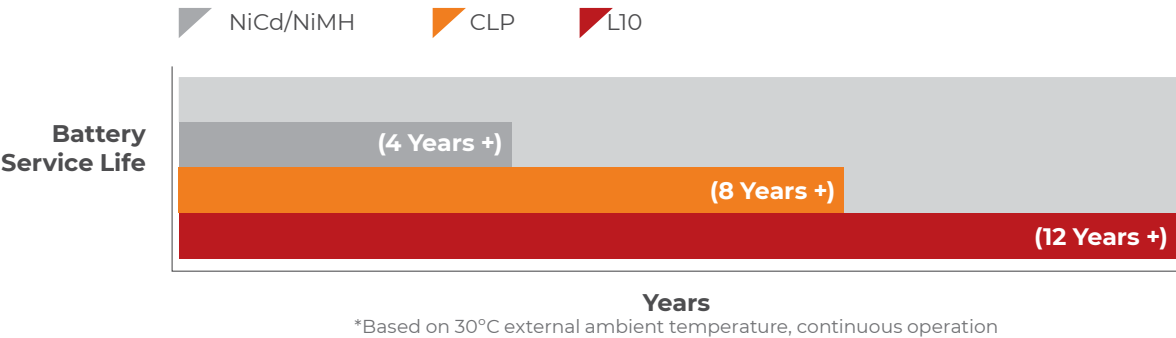
Available with Zoneworks® and DALI® testing options.

L10 LITHIUM NANOPHOSPHATE®

OPTIMUM

NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

- **Lowest total ownership cost**
- **50% longer battery life vs any other lithium product**
- **60% maintenance savings vs any other lithium product**
- **Over 80% maintenance savings vs NiCd**
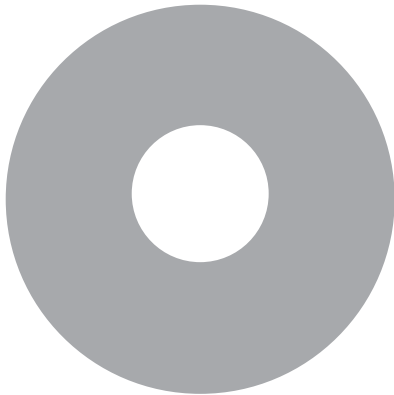- **Standard Clevertest Plus**

Nothing else competes with L10 Nanophosphate®, due to the structure of the Nanophosphate chemistry enabling higher power, increased abuse tolerance and longer life compared to other Lithium Iron Phosphate offerings.

Available with Zoneworks® and DALI® testing options.

Comparisons*

■ NiCd/NiMH   ■ CLP   ■ L10

Battery Service Life

(4 Years +)

(8 Years +)

(12 Years +)

Years

*Based on 30°C external ambient temperature, continuous operation

Range cost of ownership*

NiCd/NiMH
($) Maintenance Savings

50% Savings

80% Savings

CLP
($) Maintenance Savings

L10
($) Maintenance Savings

*Exit and emergency fittings are replaced when either battery or PCB fails

L10 Lithium Nanophosphate®

The first and only Nanophosphate® powered product on the market

- Lowest total ownership cost
- 50% longer battery life vs any other lithium product
- 60% maintenance savings vs any other lithium product
- Standard Self Test

L1O LITHIUM NANOPHOSPHATE®

OPTIMUM

NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

The L10 advantage

Clevertronics were global pioneers when they launched the L10 Nanophosphate range of products in 2012 incorporating Lithium Nanophosphate® battery technology which was the world's first lithium powered product on the market. The L10 range has proven to be a significant influence on the market due to the incredible maintenance savings that have been realised. The range is comprehensive and covers Exit and Emergency luminaires as well as a full range of Linears so you can ensure the facility can take full advantage of the savings available.

Since launch, over one million L10 Nanophosphate fittings have been installed into 100's of sites across the UK, Australia and NZ including, Melbourne Cricket Ground, Perth Children's Hospital, Barangaroo Reserve, Legacy Way Tunnel, Etihad Stadium, NHS and City of Oxford College, and on-site real world results are exceeding bench-test performance predictions by a significant margin. Clevertronics Zoneworks XT HIVE monitoring system provides unprecedented visibility into on-site product and maintenance performance, which assists facility managers in achieving compliance and helps Clevertronics in our drive for further innovation.

Testing and Development

Together with over ten years of bench-testing data at elevated temperatures and on-site "torture testing" with specific trial-site partners, Clevertronics has cemented its position as the world leader in lithium powered emergency lighting with its L10 range powered by Nanophosphate technology.

To understand the challenges of incorporating an LFP battery into an Emergency light and why long term testing and making it work in harmony with the total product is vital to ensure long term reliability, Michael Duce – National Systems and Engineering Manager from Clevertronics, provided some insight. "When we were embarking on this project, we knew the reliability of the product was centred around the impact heat has on the components inside emergency luminaires, so we put significant resources into redesigning products to place batteries away from heat sources. In the case of linear luminaires, we developed a thermally isolated section or POD at the end of the linear to house the LFP battery, and the emergency LED light source."

Testing was rigorous and Michael and his Australian-based team spent over two years testing the product before it was released on the market in 2012. Michael adds further details about managing the project.

"The second challenge was to ensure we could incorporate the battery into the various range of fittings. Our customers needed a complete range of Emergency, Exits and Linear fittings for their projects and to realise the 80% plus maintenance savings from the L10 range we needed to deliver the entire range as a package. This was challenging from an engineering perspective due to the massive scale of the development task given the large number of different products in our range.
It meant that we had to structure the development team to work on several product families concurrently and work very closely with the Production Team to ensure a smooth transition to full-scale production. To see the results now provides great satisfaction especially being the global innovators."

"When we were embarking on this project, we knew the reliability of the product was centred around the impact heat has on the components inside emergency luminaires, so we put significant resources into redesigning products to place batteries away from heat sources."
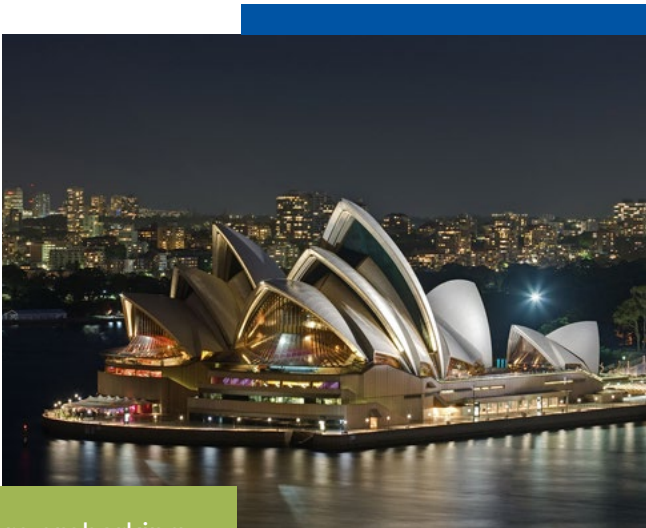
So what is Lithium Nanophosphate?

Nanophosphate® is a registered trademark for a Lithium Iron Phosphate battery technology that maximises the performance of the standard technology. The three main areas where Lithium Nanophosphate has distinct advantages over other Lithium Iron Phosphate batteries are listed below.

Power – Nanophosphate is a positive electrode material of remarkable rate capability, critical to high power systems. High power products are able to pulse at discharge rates as high as 100°C and deliver superior power by weight or volume in a cost-effective solution. With their low impedance and thermally conductive design, high power cells can be continuously discharged at a 35°C rate, a marked improvement over other rechargeable battery alternatives, and have consistent power over a wide state of charge (SOC) range.

Safety – Safety begins with chemistry and Nanophosphate is stable chemically, which provides the foundation for safe systems while meeting the most demanding customer requirements. Multiple layers of protection are employed at the chemistry, cell and system level to achieve an energy storage solution with superior safety and abuse tolerance compared to metal oxide lithium-ion chemistries.

Life – Nanophosphate technology delivers exceptional calendar and cycle life. At low rates our cells can deliver thousands of cycles at 100% depth of discharge (DOD), a feat unmatched by most commercial lithium ion cells. Even when cycled at 10°C discharge rates, cells deliver in excess of 1,000 full DOD cycles. Not only does the technology retain its energy, it also retains its power capability. Not all lithium-ion technologies behave the same. The nanoscale structure of the Nanophosphate chemistry, for example, enables battery systems with higher power, increased abuse tolerance, longer life and the greater ability to maintain consistent power over a wide range of state-of-charge (SOC) as compared with competing lithium-ion and other chemistries. Understanding the fundamental chemical differences between Nanophosphate and other technologies is necessary to develop a complete and accurate assessment of the optimal advanced battery system that will deliver the best performance for a given application.

L10 Nanophosphate Lithium Battery

The Lithium Iron Phosphate battery technology has been available for over 15 years. However, significant technological breakthroughs in the early-2000s by leading manufacturers of these cells has provided the advanced properties which now sees this as the battery technology of choice for such applications as electric cars, emergency lighting, power drills, and computers. The L10 Nanophosphate range utilises a Lithium Iron Phosphate battery that has significant improvements due to the Nanophosphate advantage.

At Clevertronics, we also believe that when comparing different emergency lighting products, it is important to ensure the technology is comparable as not all emergency lighting powered with Lithium Iron Phosphate batteries will perform at the same level. It is, therefore, critical to ask to see the performance from actual site results to give you the complete story.

There's a real difference when the results are in!

What emergency lighting compliance system is right for me?

Clevertest Plus System

Clevertest Plus (CTP) system is suitable for the simplest and smallest of sites, right through to medium and large installations where compliance and low ownership costs are important. The CTP system replaces the manual testing of emergency lighting, with self test fittings and includes the CleverSparky Electronic log book app for your phone and PC.

ZONEWORKS XT HIVE

Zoneworks XT HIVE is the most advanced emergency lighting system in the world. Utilising Dynamic self-managed meshing allows the simplest RF backbone set up for any site.

Every Zoneworks XT HIVE system is backed by the Clevertronics Advantage Lifetime Support program which is designed to help the building owner and maintenance contractor manage the health of the system at no additional cost.

What emergency lighting compliance system is right for me?

	MANUAL	CTP SYSTEM	ZONEWORKS XT HIVE
Simple Fitting Installation	✓	✓	✓
RF Controller			✓
Automatic Testing		✓	✓
Automatic Results Collection			✓
Auto Faulty Fittings Report		✓	✓
Electronic Reports		✓	✓
Electronic Maintenance Log		✓	✓
Network or Cloud Access Reports		✓	✓
Precise Test Time Configuration			✓
Remote System Access and Configuration			✓
BMS Integration			✓
Real-Time Site Alerts			✓
Dynamic Self-Managed Meshing Capabilities			✓
ALS Lifetime Support			✓

Marvel Stadium has 2756 fittings that are monitored by Zoneworks XT

ZONEWORKS®

St Vincent's Care Service in Towoomba has 73 fittings utilising the CTP System

Clevertest Plus

Clevertest Plus System

The lowest cost emergency lighting system on the market

The Clevertest Plus (CTP) system is designed to provide building owners and electrical contractors with a cost-effective and thorough means of managing emergency lighting.
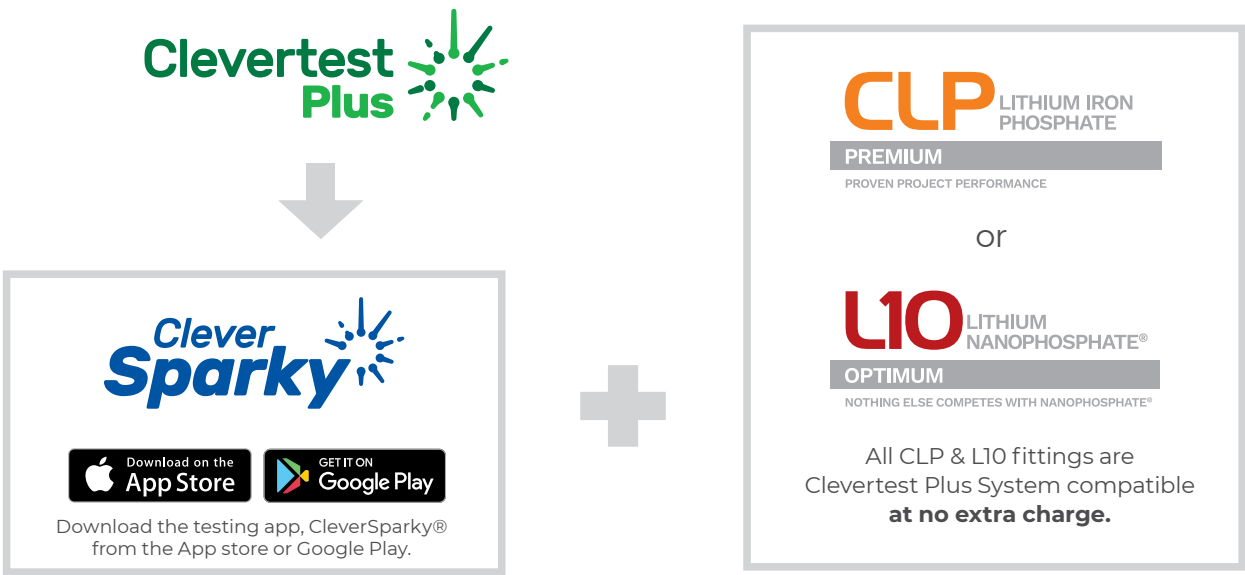
The Clevertest Plus System will provide more accurate testing by ensuring no fittings are missed during a logbook test.

Despite our connected world, the vast majority of new installs continue with manually tested fittings and paper-based compliance reports which are time-consuming, inefficient, often inaccurate and difficult to access. To overcome these issues, the Clevertest Plus System brings automatic testing, site management and compliance reporting to the mobile world; your accurate site information will now be available where you want it and when you want it.

Features and Benefits of the Clevertest Plus System

- Fittings automatically perform a 1-minute function test every month, and a 180-minute test annually

- Does not require a test switch at the switchboard

- No need for a data cable, wireless connection or centralised PC

- Complies with BS EN 62034 and BS 5266-8 automatic testing requirements

- Compliance reporting available instantly on phone or web portal

- No need for any paper-based log book

- Provides an accurate diagnosis of lamp, battery or control gear for each faulty fitting

- Manage multiple sites under one account.

"Throw away that old logbook"

What do I need for the Clevertest Plus System?

Clevertest Plus

Clever Sparky

Download on the App Store · GET IT ON Google Play

Download the testing app, CleverSparky® from the App store or Google Play.

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

or

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

All CLP & L10 fittings are Clevertest Plus System compatible **at no extra charge.**

Clevertest Plus System

The Clevertest Plus System (CTP) allows you to manage Emergency Lighting compliance with ease, saving you time and money.

Step 1

Activate the CTP self-test function on each luminaire and put fitting into test.

**At the fitting
or
At the breaker**

Step 2

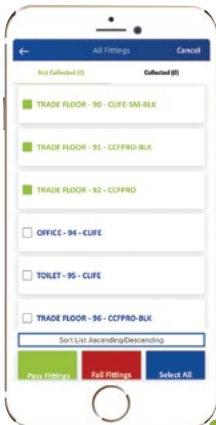Use the CleverSparky mobile app or the CleverSparky web interface to build your site database.

cleversparky.com

Step 3

Use Quick Collect to rapidly gather the test results or scan a fitting to see detailed test or fault information.
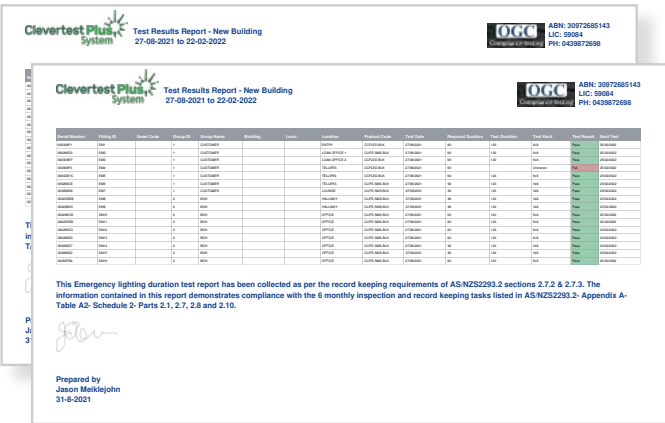
**Quick collect
or
LED scan**

Step 4

Instantly produce detailed and professional compliance reports, customised with a business logo and digital signature.

Download from the App Store or Google Play

Download the testing app, CleverSparky® from the App store or Google Play.

Download the Guide Download the CTP System operation guide at clevertronics.co.uk

ZONEWORKS®
XT HIVE

Zoneworks is the world's most advanced emergency lighting system with over 1,500 sites installed globally.

The introduction of Zoneworks XT HIVE has redefined the way emergency lighting is designed, installed and managed, making it the most advanced system on the market.

Zoneworks XT HIVE reduces the backbone hardware requirements to a single RF controller and adds dynamic self-managed meshing technology to make your emergency lighting simpler, faster and easier than ever before.

- If you are designing an emergency lighting system, **it is simpler**
- If you are installing and commissioning emergency lighting, **it is faster**
- If you are managing emergency lighting, **it is easier**

Zoneworks XT HIVE will continue to be supported by a team of Advantage Lifetime Support specialists that ensure each system is looked after for its lifetime at no additional cost. It's just what we do.

Faster
Design, Install, Commissioning, Testing & Maintenance
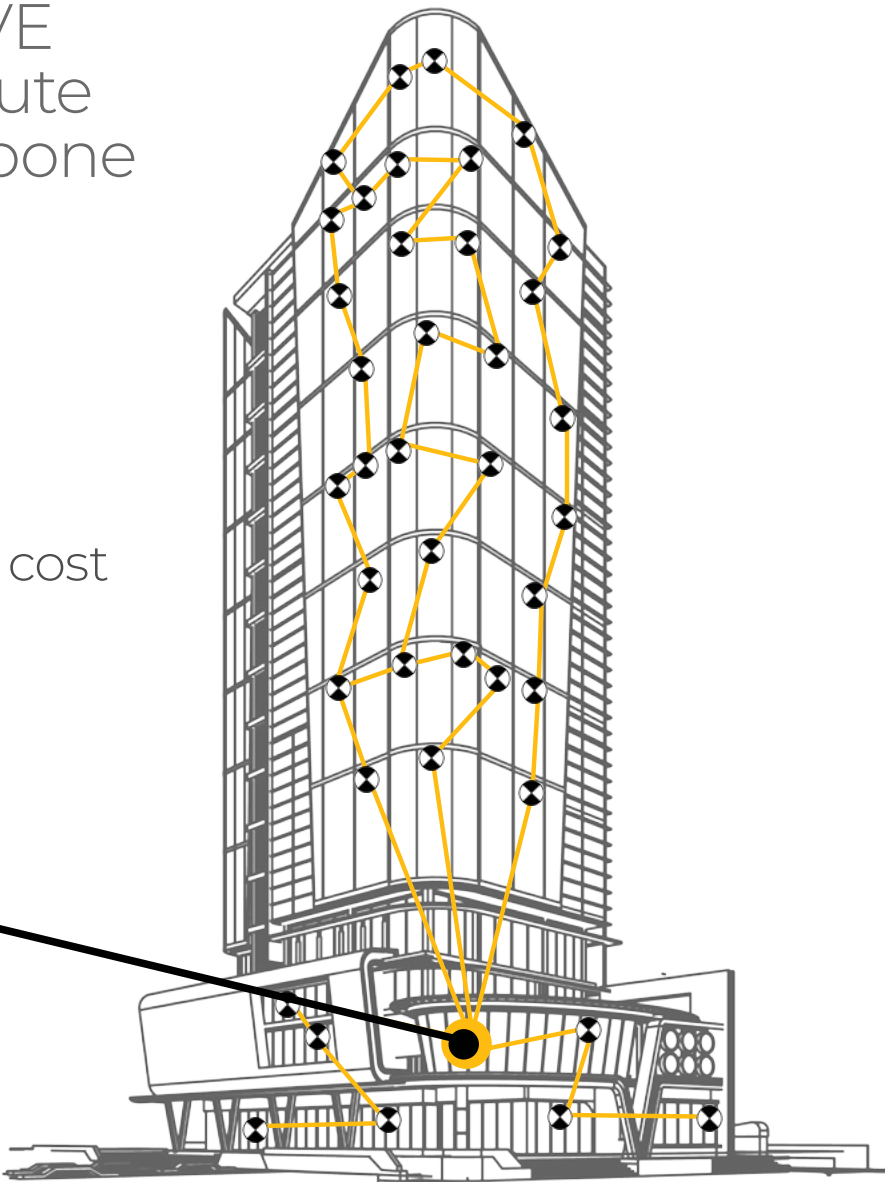
Lower Cost
Installation & Operation

Zoneworks XT HIVE features the absolute simplest RF backbone set up for any site.

- One single RF controller per 1,000 fittings
- Unlimited fittings per system
- Industry grade encryption and site security
- Highest data throughput and performance

Less backbone = **Less** cost

One Single Controller*

*1000 fittings per controller, unlimited fittings per system.
Location of the controller is flexible & can be moved should the need arise.

Zoneworks XT HIVE is simple because you DON'T NEED to purchase & install:

- ✖ Additional Routers
- ✖ Additional Controller
- ✖ Additional Repeaters
- ✖ Additional Networking Cable
- ✖ Additional Couplers
- ✖ Additional Data Points
- ✖ Data Cable Between Fittings
- ✖ Additional Extenders

Unmatched Simplicity

Unmatched Performance

Dynamic Self-Managed (DSM) Meshing

- Every fitting self-discovers other fittings around it to form "colonies" that dynamically build the network
- These colonies only communicate with each other and will not interfere with other wireless networks, even if they are on the same frequency
- Maximising the efficiency of the overall network
- Minimising commissioning and system management time

Zoneworks XT HIVE Backbone & Connectivity

Zoneworks XT HIVE is fast, simple and smart, allowing you to save time and costs across design, installation, commissioning and testing.

1. Automatically Mesh Devices

Once HIVE fittings are installed and powered up they automatically create a network by self-discovering others around them using dynamic self-managed meshing (DSM Meshing), saving valuable commissioning time.
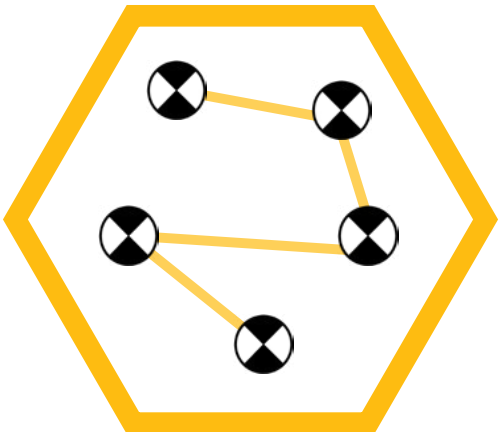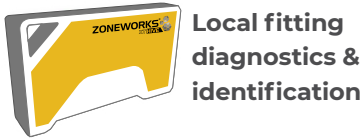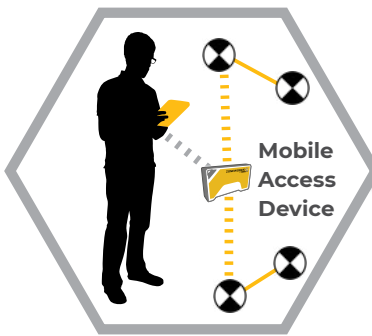
2. Enable the Controller

Switch on the controller to provide access and control of the emergency lighting system.

Cloud Server
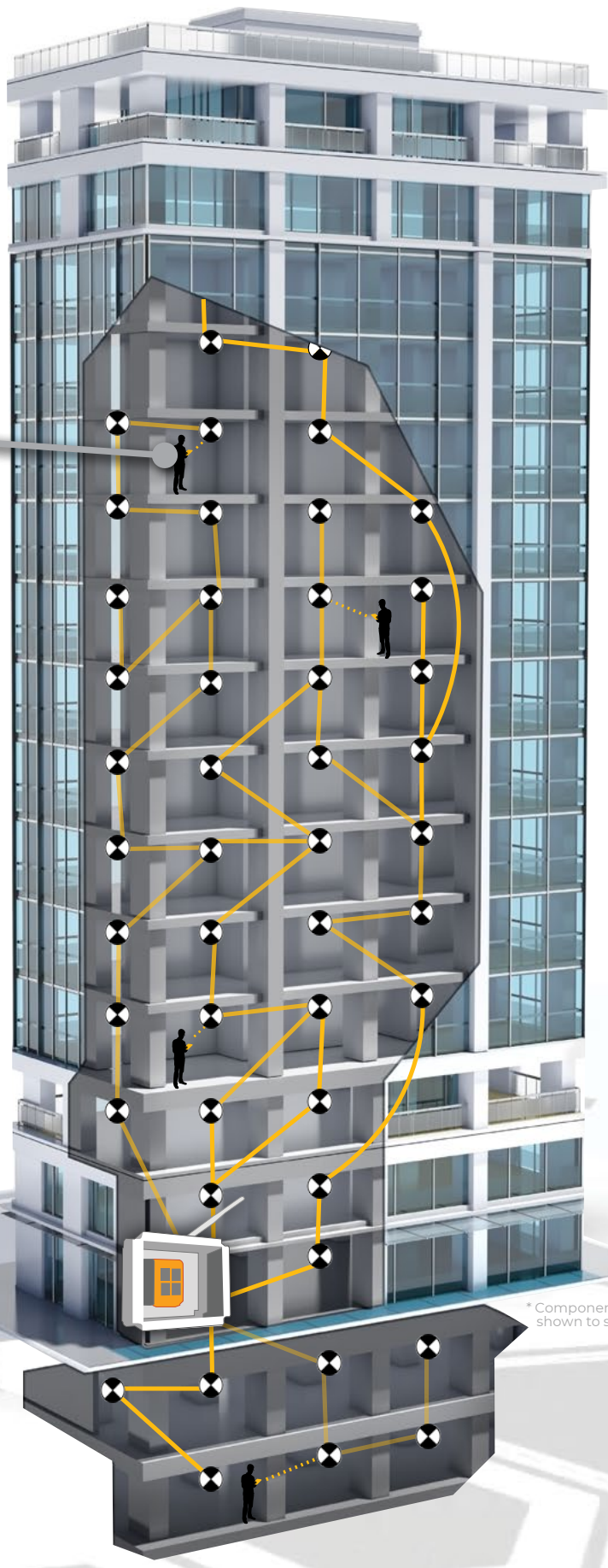
Local Server

Admin Access
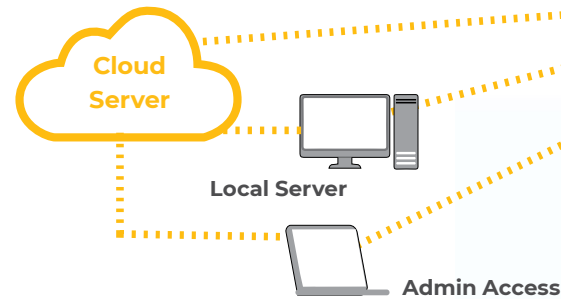
3. Create your Log Book

The fitting register can now be easily uploaded and a smartphone or tablet can be used to perform local fitting diagnostics and identification.

Mobile Access Device

Local fitting diagnostics & identification

The MAD (Mobile Access Device) is a portable access tool (as small as a smartphone) that enables service technicians a mobile field connection to the XT HIVE network using a smart phone or tablet app.

RF with Dynamic Self Managed Meshing

RF Mobile Access Device to Fittings

Bluetooth to Smart Device

* Components not shown to scale.

Security

The method used by the HIVE controllers to achieve this outcome is via a unique encryption key. Following the initial commissioning, the fittings are then issued an encryption key; either globally across the entire site or on a controller-by-controller basis.

In the same way that bees join a colony, once the encryption key is applied to the HIVE emergency fittings and the controller, a segregated community of Zoneworks XT HIVE emergency light fittings is established, and the members of this HIVE will only communicate with their fellow members, ignoring any others within range.

New members can only be added to this community by the issue of the site's unique encryption key. This key can be changed by the client if or as required.

The HIVE controller(s) and fittings also provide 3 levels of RF network security – Message Integrity, Message Confidentially (encryption) and Node Authenticity.
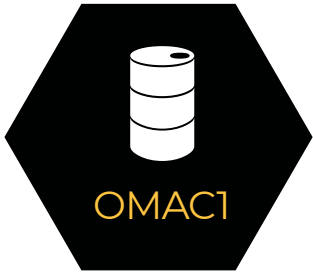
OMAC1

Message Integrity

Each message is appended with an OMAC1 Message Integrity Code.

Making sure the message content was not interfered with during transmission.

AES128 CTR

Message Confidentiality

**Every message is encrypted with AES128 CTR mode using a message specific nonce.**

Ensuring the message is encrypted in such a way that if it could be heard or intercepted the message could not be understood.

Message Integrity Code

Node Authenticity

Network signalling messages are encrypted and appended with an OMAC1 Message Integrity Code (MIC). Nodes without the correct encryption & MIC key pair cannot join the network.

Making sure that received data can be trusted.

SSH HTTPS MQTT
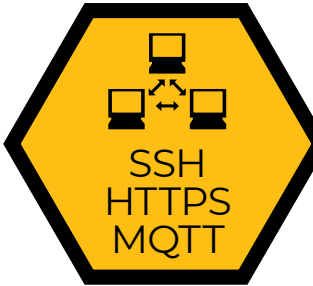
Security at the Controller and Server

Industry standard:

· SSH for file transfer
· HTTPS
· Secure Socket Layer for MQTT

Trusted across many industries

Government & Defence

Data Centres

Infrastructure & Transport

Operation & Reporting

Zoneworks XT HIVE has all the functionality users are familiar with, including a clean and simple web-based interface that can be integrated seamlessly with other networked building management services.

Fittings by groups

The reporting functionality provides everything you need at the push of a button from faulty fittings, maintenance log and full test results.

Fitting detail and history: Including monthly function tests and full duration tests.

Flexible Site and User Management

Allows organisations with large sites or multiple locations to put one controller at each address to centrally manage all their emergency lighting systems from one place, including gathering compliance test results without needing to attend the sites in person.

A feature named "Site Group Access" enables facility managers to grant specific access to users across different parts of the network. For example, they might have an agreement with different local contractors to provide emergency lighting maintenance for different locations. The building manager can give them access to the system, but they'll only see the parts that are relevant to their location.

This feature coupled with Active Directory Integration allows system administrators to manage users more effectively.

Hosting Options

While the Zoneworks XT platform can be housed locally, clients may instead choose to access Zoneworks XT Cloud Hosting, making it the practical choice for installations where there are no dedicated building management facilities. All that is required is an internet connection to the local XT HIVE RF controller and you are set to go.

Simpler Commissioning

Multiple installers can work efficiently together at different locations to create the master register, ready for managing compliance testing for the site. The Zoneworks App lets maintenance personnel manage multiple sites, including control of access to the system for additions or changes as required.

Sensitive Areas that Can't Utilise Wireless Platforms

Zoneworks XT HIVE has the solution if an RF network isn't suitable for selected rooms or areas that are shielded from all RF interference due to a specialist function, or a requirement for specific luminaires. These may include high-security facilities, emergency services control rooms, hazardous area lighting, or hospital MRI rooms.

Adding a Hive2Wired bridge outside of the sensitive zone enables a Zoneworks connection using a (Non-RF) wired communication link into the shielded area and includes the fittings in the same system.

Building Management Systems Integration

The Zoneworks XT management software includes the capability to integrate with 3rd party Integrated Building Management Systems platforms. This allows for the integration of the emergency lighting information into a single, consolidated building management system, alongside other building services including general lighting, ventilation, security, access, and more.

We offer integration with 3rd party Building Management Systems on several levels:

a) Low Level via voltage free contacts that provide system alarm and fault indications.

b) High Level via a Direct Structured Query Language (SQL) database access where all information
   associated with each emergency light fitting can be obtained (no additional cost).

c) High Level via REST API or MQTT interfaces that work with multiple supervisory systems,
   including Integrated Building Management Systems (IBMS).

Clevertronics can provide a "System view" for the BMS integrator to access only the relevant information for each site.

Upgrading your site to XT HIVE from scratch

Previous emergency lighting system upgrades were costly and complex due to the required backbone and cabling requirements. With Zoneworks XT HIVE's simple backbone and RF meshing system, all sites, regardless of manufacturer, can now be easily upgraded cost-effectively.

Here are some signs you might need to consider an upgrade:

- Your facilities management team are struggling to stay on top of testing and maintenance requirements
- Your team isn't sure how your system works because training and support is minimal
- You're not sure if your building is compliant, and there's no log of the testing or maintenance
- Your costs to manage, maintain, and test your system are high - and going up over time
- Your lamps and batteries are an older style that needs replacing every year or so

XT HIVE progressive upgrades don't add any significant upfront cost to your emergency lighting maintenance budget as it only requires the small investment of a HIVE controller. As the existing fittings fail and need replacement, XT HIVE compatible fittings are installed as a progressive upgrade throughout the site. This process ensures you are only using the maintenance budget to achieve the upgrade. Depending on the health of the existing fittings, you will likely have a fully operational HIVE site within a few years.

Only one XT HIVE fitting and controller is required to start you on a better emergency lighting compliance journey.

Are you interested in understanding more about an **upgrade at your site**?

Contact **Clevertronics** for a site audit, demonstration and cost analysis report.

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Technical Overview

|	
Fittings per controller	Up to 1000.
Fittings per system	Unlimited.
High data throughput	Ultra fast data network enabling real-time analytics and response. Status and test result request times for a 1000 fitting network are an average of 1 second, or less per fitting.
Network Commissioning	The RF network builds itself automatically (unattended) resulting in a dramatic reduction in site commissioning time - Clevertronics can deliver a fully commissioned network faster.
Bluetooth Connectivity	Smart devices (IOS & Android) can connect locally via our mobile access device.
Compatibility	Supports Zoneworks Powerline and RF controllers.
Antenna Configuration	Internal (external antennas by exception only on a limited range of products).
Product Availability	L10 & CLP Exits, Emergency Luminaires & Linears.
Fittings Product Code	Add suffix '-HVG' to the part number of L10 & CLP Exits, Emergency Luminaires & Linears.
Security	XT HIVE fittings use high grade network security protocols to ensure that they only communicate within their site and will not interact with any device outside of the commissioned group.
No Interference	XT HIVE networks operates at 2.4Ghz, specifically designed to operate in environments alongside other RF systems, even those using the same frequency band including Wi-Fi, Mobile Phones, Bluetooth, and other wireless communication streams. It has proven performance in various environments including hospitals, retail, distribution centres, power stations, data centres, transport hubs and televised stadiums.

Trusted across many industries

Residential & Hotels

Heritage

Warehouse & Distribution
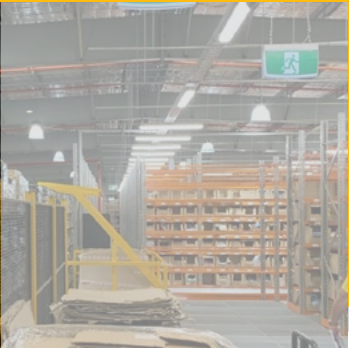
Your Partner in Compliance

With the Zoneworks XT HIVE platform, Clevertronics also includes ongoing support through our complimentary Advantage Lifetime Support (ALS) program. This service is designed to help the building owner & maintenance contractor manage the on-going health for the life of the system.

Emergency lighting is regarded as a life-saving device, and therefore, it should always in working order. Compliance with the standard can be costly, especially if the products and operating systems regularly fail.

Many emergency lighting companies finish their involvement on your project once the product has been supplied. However, at Clevertronics we know that on-going support is important to contractors and building owners.

Complimentary Lifetime Support

How can we help you?

System Health Check	Once you complete the testing, we assist with interpreting results
Optimisation	We can provide expert support to assist with optimising the system
Training	Periodic training is provided to ensure the user is confident with operating the system
Software	Complimentary software upgrades are installed to ensure your system is always up to date
Contact	You will always have a dedicated point of contact to answer your emergency lighting questions

Trusted across many industries

Retail & Commercial

Medical & Health

Education

DALI Registered

Clevertronics manufactures a range DALI registered emergency and exit luminaires.

DALI, the open protocol supported by all the major lighting manufacturers, enables digital dimming, individual luminaire control, lamp and ECG status feedback and emergency test and monitoring – all over a robust and simple wiring solution.

What is DALI

Digital Addressable Lighting Interface or more widely known as DALI is an open data and communication protocol that is defined under the IEC 62386 international standard. Part 202 of the standard specifies a protocol and test procedures for the control by digital signals of electronic control gear for use on a.c. or d.c. supplies, associated with self-contained emergency lighting. Clevertronics DALI luminaires are all fully compliant with IEC 62386-202 and are registered on the DIIA product database.

DALI Integration

By integrating emergency luminaires with the DALI lighting control system the same wiring and networking infrastructure can be utilised to monitor and test the emergency and exit luminaires. The DALI standard enables dimmable ballasts, emergency fittings and controllers from various manufacturers to be used in a single control system providing a flexible digital lighting system for designers, installers, facility managers and end-users. The DALI lighting control system and the software module for the emergency lighting is supplied by the lighting control system provider. Commissioning and addressing of the luminaires including the emergency lighting is also carried out by the lighting control system provider or systems integrator.

STANDARDS AND COMPLIANCE

The Clevertronics range of DALI Registered emergency and exit luminaires have been designed in accordance to:
IEC 62386-202

Clevertronics and DALI

Each DALI emergency and exit luminaire incorporates a DALI plugin node module making the replacement of fittings simple without the need to re-address the new fitting. All Clevertronics DALI emergency and exit luminaires can be supplied with industry standard leads and connectors making installation to structured cabling quick and simple.

Clevertronics Support

Product and application support is always available for installers and integrators using Clevertronics DALI luminaires on a project. With dedicated project services and engineering teams based around Australia and New Zealand, we provide a high level of support for all projects and can provide technical advice, remote or on-site assistance at Clevertronics discretion.

DALI Product Range

Our extensive CLP Premium and L10 Nanophosphate ranges are available with DALI.

"It has been a great learning curve for us, has improved safety and removed the compliance risks. In fact, it has set a new benchmark by going above and beyond the standard."

Case Study – CTP System

Coles Group Melbourne VIC

Coles Group has broken new ground in emergency and exit lighting by achieving best in class compliance thanks to a hugely successful partnership between its facilities management company CityFM and emergency and exit lighting specialists Clevertronics. Clevertest Plus self-testing fittings, combined with the innovative CleverSparky app, means Coles customers and staff are 100% safe and CityFM can generate a compliance report at the push of a button.

As one of the world's largest privately-owned facilities management companies, employing over 13,000 people with divisions across five continents, CityFM has an outstanding reputation for providing facilities management solutions to some of the world's biggest companies. In Australia, CityFM's expertise is proven by their longstanding contract with the Coles Group, Australia's second largest retailer, who have placed all 800 of their supermarkets in the company's care.

Challenges

One of the most important aspects of CityFM's service offering is maintaining compliant emergency and exit lighting systems in accordance with emergency lighting standards. As defective emergency lighting is a serious public safety issue, when it came to deciding who to trust to help them uphold their legal obligations, it is not surprising that CityFM turned to Clevertronics. National Regional Technical Manager for CityFM, Hector Bright, explains why:

"Right at the core of the success and longevity of the CityFM and Coles Group relationship is CityFM's ability to innovate consistently across the full-service offering. Within this, emergency and exit lighting is pivotal and it is my job to make sure the best and most reliable products are installed," he says. "We chose

"We chose Clevertronics as our emergency and exit lighting partner because they were, and are, the most innovative company working in that space."

Clevertronics as our emergency and exit lighting partner because they were, and are, the most innovative company working in that space."

Clevertronics holds an estimated 50% market share in Australia and New Zealand across small, medium and large installations. Although all new Coles stores are automatically specified with Clevertronics Zoneworks (the gold standard emergency and exit lighting system), for existing stores a full retrofit is not always economically feasible.

"Doing a full retrofit with Zoneworks in our older stores was not possible, but we knew we had to do something to improve the emergency and exit lighting and maintenance approach. The manual method was no longer serving us. In fact, we increasingly recognised compliance risks associated with it," continues Bright. The manual system that Bright is referring to is a single point test and maintenance regime that has been in place for many years. It involves a technician walking around the store physically checking the fittings, making sure they stay illuminated for the required duration and recording the data in a paper logbook.

Solution

Product Support Manager for Clevertronics, Jason Meiklejohn, explains why this is far from the best approach. "We found huge variability in the way data was being recorded and managed. The whole regime made proving compliance quite difficult. In addition, the large population of legacy NiCad and fluorescent fittings installed in stores are reaching their end of life leading to high failure rates as well as high maintenance and energy costs."

Bright agrees. "There is no doubt that the single point test and maintenance regime is a pretty clunky way of doing things. It's not only time-consuming, and therefore costly, but must be done out of hours and, most seriously, is open to error and omissions. If it's not 100% correct, this creates a huge compliance risk for the business if a fault should occur and data is found to be missing or wrong."

With huge fines at stake, should an audit identify a problem, not to mention the safety risk to customers and staff, Bright engaged the team at Clevertronics to figure out a more time and cost-effective solution.

Results

The result is Clevertest Plus (CTP) System which has recently become operational in a concept Coles store called Middle Park in Queensland. Clevertronics National Accounts Manager, Graeme Smith, says it is incredibly gratifying to see the culmination of the four-year CTP product innovation journey finally come to life.

"Although we are scheduled to roll CTP out to all 600 of the older stores, Hector Bright was keen to get one store fully operational so we could easily demonstrate the benefits. We identified Middle Park Coles as the perfect place to showcase the system because 80% of the emergency and exit lighting fittings had already been replaced with Clevertronics CLP, which all have self-testing as a standard feature," explains Smith.

Bright says he is thrilled with the results. "We have programmed the system to self test every six months, as per our compliance obligations and, at that point, all the technician has to do is check each fitting to see if the LED is displaying a pass or fail indication. They capture the data electronically as they go using CleverSparky, then upload the data to the cloud for internal or, fully compliant, external auditing. It's brilliant."

There is no doubt the new CTP system will reduce labour costs, eliminate errors and give uniformity to the data collection process. In addition, Bright says it helps with forward maintenance. "If the fitting does display a failed test result, meaning there is an error, you can scan the fitting with your phone to automatically identify the issue, or just view the way the LED flashes to see what is required to fix it. We then electronically log the maintenance request,"

Smith is also happy with how the project has evolved. "It's win-win-win. For CityFM, for Coles and for Clevertronics. It has been a great learning curve for us, has improved safety and removed the compliance risks. In fact, it has set a new benchmark by going above and beyond the standard," he notes.

Having successfully demonstrated the concept store, the project is swiftly progressing towards the end goal, which is to have all single point Coles stores fully installed with CTP fittings and all data migrated onto CleverSparky.

"This will really drive efficiency gains giving us what I call 'more for less,'" continues Bright. "It has been great to work with Clevertronics on the project. Our aim has always been to get the best product for the right price with the right support, and all of that combined equals Clevertronics."

Case Study – Zoneworks XT HIVE

Australia House London UK

Australian Embassy issues emergency lighting overhaul at Australia House in London. Australia House is a listed century old heritage building in the heart of the City of Westminster, London. Over its long life, Australia House has had numerous refurbishments and 'fit outs' creating multiple layers of complex emergency lighting solutions.

Due to the challenging nature of the project, international consultancy WSP engaged Clevertronics and together created a solution that consisted of two main elements:

1. Assess and ensure the life safety lighting met the current standards for safe egress during an emergency

2. Simplify and modernise the way the emergency lighting system was tested, maintained and operated Being such a fundamental part of the building's operation, the project was separated into phases based on priority areas within the building.

The first phase consisted of replacing and upgrading the main egress and staircase emergency and exit lighting, as well as other high traffic areas. The second phase included additional egress areas and the rest of the building.

> **"Australia House has had numerous refurbishments and 'fit outs' creating multiple layers of complex emergency lighting solutions."**

Challenges

Due to the building's age and complexity the major challenges of the project were the 'unknown elements' that could not be assessed effectively until the contractors were on site. A good example of this was understanding the existing routes taken by cable submains and final circuits to luminaires, many of which could not be ascertained without intrusive surveys.

Solution & Result

The Clevertronics system, was carefully chosen and linked to meet the clients' challenges. First and foremost, a top priority was given to provide sufficient lighting to cover all egress areas causing minimal disruption to the building when replacing the existing emergency lighting system.

To 'link' the system together, Zoneworks XT HIVE wireless mesh was chosen due to its continual monitoring and automatic testing of the emergency luminaires ensuring continued ongoing compliance. An additional benefit of using the wireless Zoneworks HIVE meant less hardware, cabling and commissioning. This was enthusiastically welcomed as additional high risk and intrusive works can equal high cost and delays.

Australia House is eligible for the Clevertronics Advantage Lifetime Support (ALS) program, as are all installed Clevertronics Zoneworks HIVE systems, therefore Australia House will receive free support for their HIVE system for the lifetime of the installation. ALS is made possible, in part, due to our

L10 Lithium Nanophosphate products, which has unrivalled warranty and have been engineered with a 12+ service life in mind. (See website for details of our ALS Program). This project is a crowning achievement by all parties involved. 400 plus emergency luminaires have been installed, commissioned, and tested. Full training has been deployed to the client and facility manager to ensure that they are able to confidently use their new HIVE testing system. As Jason Li of WSP says, "We've had great responses and feedback from the team with regards to the ease and simplicity of the Zoneworks XT HIVE interface. With a few clicks, the team can now automate scheduled tests of the luminaires on a consistent monthly basis and plan for a yearly 3hr test. Better still, they can visually assess the performance of the system as the installation completely simplifies the overall management of each luminaire."

Continuing, Jason describes "In the past this would have taken days to inspect each month at great difficulty and expense due to the nature of the building. Now being automated, it directly reduces labour time and costs and any likelihood of human error. This single, easily manageable, emergency lighting system is the future and is certainly something we will be using more of."

> **"This single, easily manageable, emergency lighting system is the future and is certainly something we will be using more of"**

Case Study – L10 Nanophosphate®

Marvel Stadium Melbourne VIC

Marvel Stadium is a 52,000 seat multi-purpose facility designed to cater for major sporting and entertainment events, as well as social, business and private functions. The venue hosts as many as 80 arena sports and entertainment events and 600 non-event day functions annually in its 15 different function spaces.

In 2012, Honeywell was tasked with reviewing the Emergency and Exit Lighting within the stadium. With the existing system reaching the end of its serviceable life the maintenance costs which were already high had reached a level which was not sustainable at $1,083,000 in costs over a 7 year period.

Marvel Stadium after 8 years

- **2,756 exit & emergency light fittings**
- **93.51% Lithium battery capacity**
- **33 total faults**
- **1 battery fail**

L10 LITHIUM NANOPHOSPHATE®

OPTIMUM

NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Challenges

With the stadium receiving such a high level of foot traffic, Emergency & Exit escape lighting is of utmost importance and the quality and performance of the emergency lighting is critical to ensure compliance is always achieved. Emergency and exit lighting also represented a major ongoing maintenance and energy cost for the stadium, and as time passed these costs grew exponentially as products had failed.

The biggest challenge was to firstly achieve 100% compliance and ensure safety for the customers and staff at the stadium and ensure the reliability could be improved and therefore reduce the overall maintenance costs over a 7 year period.

Solution

Following the consideration of various options, Honeywell was introduced to the Clevertronics L10 Nanophosphate® Lithium powered lighting range which had just been launched after 12 months of extensive testing. The Honeywell Victoria TAM Operations Manager who was managing the project said "The L10 Lithium

range is the way of the future. I believe the move away from NiCd batteries will be quite swift as building owners and facility managers become aware of the numerous advantages that L10 product offers. The added advantage of low environmental impact and also less waste through longer replacement intervals also makes it a far more sustainable technology compared to existing practice." In September 2012, the installation of 2,756 Clevertonics L10 Nanophosphate® exit and emergency lighting fittings and a Zoneworks computer monitoring system began and was commisioned in early 2013. Honeywell estimated that switching from traditional Ni-Cd fittings to the Clevertronics L10 Nanophosphate® fittings would see its total energy and maintenance costs for emergency lighting reduced from $1,083,830 to $178,867 over a seven-year period, representing a saving of 83.5% which was beyond expectations before the project began.

Results

Results in August 2020 has shown that the average capacity of the L10 Nanophosphate fittings are at 93.51%, with an average run time of 178 minutes (90 minutes is the required time) after 8 years in service.

This indicates that the L10 batteries are on track to exceed the expected design life of the L10 product by a significant margin.

The site has now delivered the maintenance and energy savings estimated at the time of installation and continues to provide the site with the lowest cost emergency lighting solution on the market.

"The L10 Lithium range is the way of the future. I believe the move away from NiCd batteries will be quite swift as building owners and facility managers become aware of the numerous advantages that L10 product offers."

EXITS

The product details described in this document are current as at the version date of the document. We reserve the right to change product design, specifications or materials (Specifications) as part of our continuous improvement program. Please confirm the applicable Specifications at the time of placing your order.

LED Exit Suitable for All Applications

The Cleverfit Exit Light is a proven market leader that is known for its reliable, robust design, energy efficiency and quality lithium battery technology.

The Cleverfit Exit Light can be either wall or ceiling mounted with directional decals for single and double-sided applications provided in each box.

Applications

- Office Buildings
- Schools
- Factories
- Retail Outlets
- Car Parks
- Theatres

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Low standby power consumption
- Wall and ceiling mount with easy slide connect
- Can be rod or chain suspended
- All directional decals in one box
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Theatre version available

LED | 3 HRS / 3HRS
Universal Mount | LiFePO₄
Theatre Option
30M
IP20

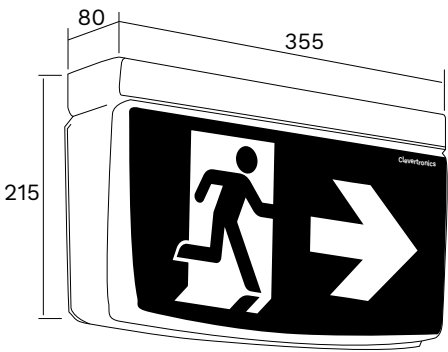| ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CCFLED	LCFLED
	Standard - Black	CCFLED-BLK	LCFLED-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CCFLED-DALI	LCFLED-DALI
	Zoneworks® XT Hive	CCFLED-HVG	LCFLED-HVG
	Theatre Version	CCFLED-TH	LCFLED-TH
Carton Quantity		5 pieces	
Weight - single (carton)		1.8kg (9kg)	
Dimensions (L x W x H)		355mm x 80mm x 215mm	
Directional Options		All Directional Inserts Included (Excluding Theatre Versions)	
Directional Options (Theatre Only)		Add Suffix to Part No, Double Sided -DS , Left Arrow -RL, Right -RR, Up -RU, Down -RD. eg CCFLED-TH-DS-RD	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	3.7W / 4.9W	2.5W / 4.5W
Lamp(s)	100,000 Hour LEDs	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Construction- Body / Diffuser	ABS / PC	
Viewing Distance	30m	
Mounting Type	Wall & Ceiling (Single & Double Sided)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20 (Weatherproof Version Available)	

ACCESSORIES	CLP	L10
Cantilever Bracket	CLVRBRT-CF-WP	CLVRBRT-CF-WP
Wireguard (Wall Mount)	2530050	2530050
Wireguard (Ceiling Mount)	2530110	2530110

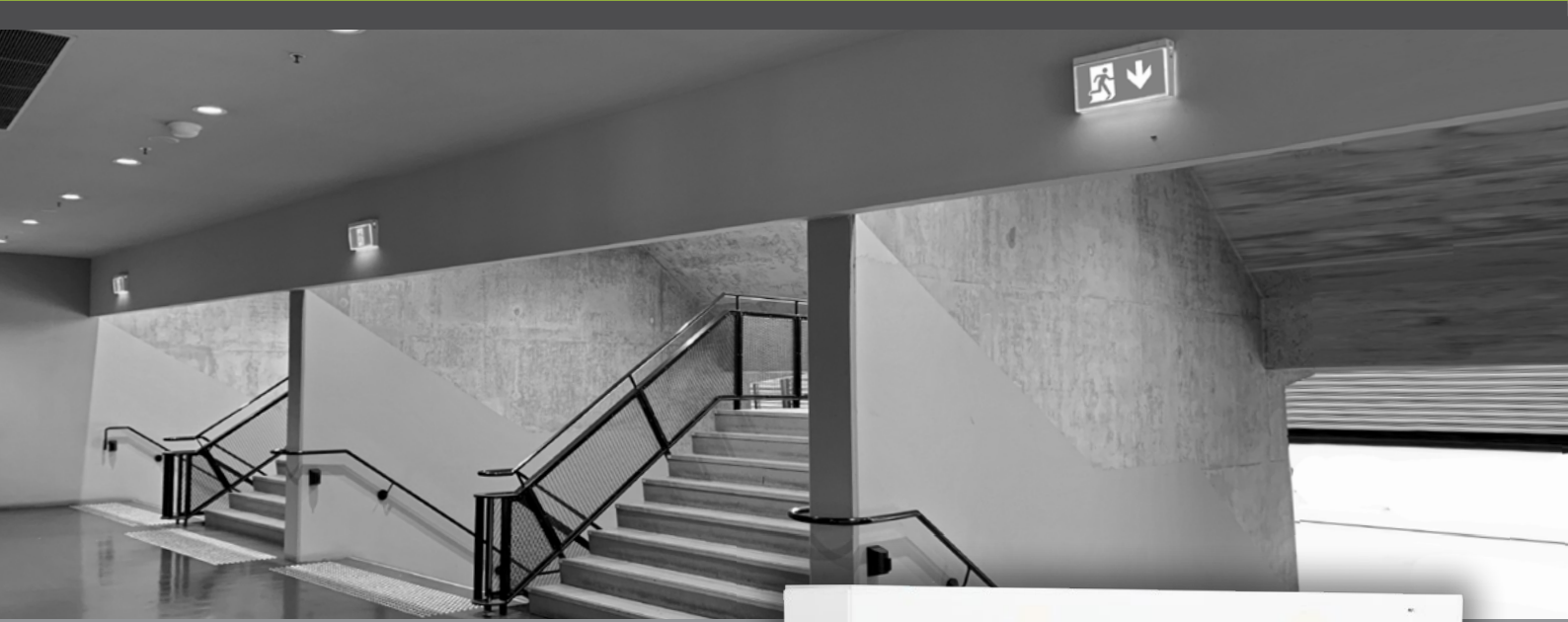| LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

80 | 355 | 215

Dimensions (mm)

The product details described in this document are current as at the version date of the document. We reserve the right to change product design, specifications or materials (Specifications) as part of our continuous improvement program. Please confirm the applicable Specifications at the time of placing your order.

Modern and Slimline Architectural Exit

The Cleverfit Pro Exit Light offers a practical solution in a slimline, architecturally pleasing design.

The tamper resistant cover makes it possible to include all diffuser combinations in one box for single or double sided applications.

Applications

- Office Buildings
- Shopping Centres
- Showrooms
- Retail Outlets
- Theatres
- Apartments

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Low standby power consumption
- Wall and ceiling mount with easy slide connect
- Can be rod or chain suspended
- All directional decals in one box
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Theatre version available

LED | 3 HRS / 3HRS
Universal Mount | LiFePO₄
Theatre Option
30M
IP20

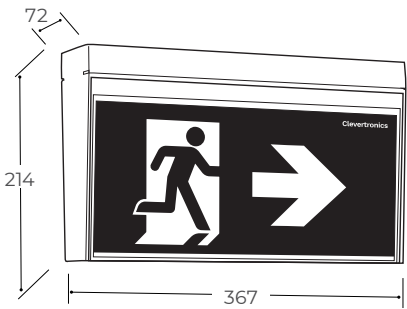| ORDERING INFORMATION		CLP	L10
	Standard - White	CCFPRO	LCFPRO
	Standard - Black	CCFPRO-BLK	LCFPRO-BLK
	Clevertest Plus System Compatible	Yes	Yes
	DALI	CCFPRO-DALI	LCFPRO-DALI
	Zoneworks® XT Hive	CCFPRO-HVG	LCFPRO-HVG
	Theatre Version	CCFPRO-TH	LCFPRO-TH
Carton Quantity		5	
Weight - Single (Carton)		2.5kg (13.0kg)	
Dimensions (L x W x H)		367mm x 72mm x 214mm	
Directional Options		All Directional Inserts Included (Excluding Theatre Versions)	
Directional Options (Theatre Only)		Add Suffix to Part No, Double Sided -DS , Left Arrow -RL, Right -RR, Up -RU, Down -RD. eg CCFPRO-TH-DS-RD	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	3.7W / 4.8W	3.9W / 4.8W
Lamp(s)	100,000 Hour LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Maintained	
Voltage (V) Frequency (Hz)	220-240V(50Hz)	
Construction - Body / Diffuser	PC-ABS / PC	
Viewing Distance	30m	
Mounting Type	Wall & Ceiling (Single & Double Sided)	
Operating Temperature	0°C to 40°C	
Ingress Protection Rating (IP)	IP20	

ACCESSORIES	CLP	L10
Cantilever Bracket	CLVRBRT-CFPRO	CLVRBRT-CFPRO
Wireguard (Wall Mount)	2530050	2530050
Wireguard (Ceiling Mount)	2530110	2530110

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

72
214
367

Dimensions (mm)

The product details described in this document are current as at the version date of the document. We reserve the right to change product design, specifications or materials (Specifications) as part of our continuous improvement program. Please confirm the applicable Specifications at the time of placing your order.

Architectural Exit for all Applications

The Form 20m Exit strikes a balance between Form & Function. Featuring an elegant and size optimised anodised aluminium frame, the Form is a versatile architectural solution available in multiple configurations including wall, ceiling, recessed, or suspended rod or cable mounting. Designed for simplified installation and maintenance, it also features our industry leading 'One-Box' solution that allows easy changing of directional decals as required.

Applications

- Office Buildings
- Retail outlets
- Galleries
- Apartments
- Shopping Centres

CLP LITHIUM IRON PHOSPHATE
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L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- 'One Box' solution with all changeable directional decals included
- Optional escape route illumination
- Surface or recessed mount
- Low standby power consumption
- Up to IP42 Ingress Protection (Surface Wall Mount)
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI and Zoneworks test options available
- Clevertest Plus System compatible

Icons: LED | IP42 | Wall Mount | IP20 | Ceiling Mount | 3HRS | Flag Mount | LiFePO₄ | 20M

ORDERING INFORMATION		CLP	L10	CLP	L10
Mounting Configuration		Wall Mount - Surface		Wall Mount - Recessed	
	Standard	FORM-20-SM-WM-LP	FORM-20-SM-WM-L10	FORM-20-REC-WM-LP	FORM-20-REC-WM-L10
	Clevertest Plus System Compatible	Yes		Yes	
	DALI	FORM-20-SM-WM-LP-DALI	FORM-20-SM-WM-L10-DALI	FORM-20-REC-WM-LP-DALI	FORM-20-REC-WM-L10-DALI
	Zoneworks® XT Hive	FORM-20-SM-WM-LP-HVG	FORM-20-SM-WM-L10-HVG	FORM-20-REC-WM-LP-HVG	FORM-20-REC-WM-L10-HVG
	Escape Route Illumination	'Yes (Add '-ESC' to end of product codes above)			
Carton Quantity		1			
Weight - Single (Standard)		0.55kg		0.7kg	
Dimensions (L x W x H)		220mm x 18mm x 110mm - Blade Assembly 211mm x 26mm x 101mm - Body / Box		220mm x 18mm x 110mm - Blade Assembly 200mm x 52mm x 90mm - Body / Box	
Directional Options		All Directional Inserts Included			

(TEST OPTIONS | PART NO)

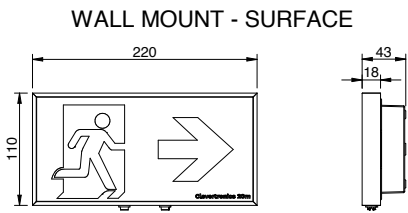| POWER, LAMPS AND BATTERY	CLP	L10	CLP	L10
Power Consumption (Standby / Max)*	1.2W / 3.3W			
Lamp(s)*	170,000 Hour LEDs			
Battery Type	Lithium Iron Phosphate	Lithium Nanophosphate®	Lithium Iron Phosphate	Lithium Nanophosphate®
Battery Configuration	Integral			
Voltage (V) / Capacity (mAh)	3.2V / 1100mAh	3.3V / 2500mAh	3.2V / 1100mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage			

* Please refer to the specific product datasheet for actual power consumption and lamp life

TECHNICAL SPECIFICATIONS	CLP	L10	CLP	L10
Operating Mode	Maintained			
Voltage (V) Frequency (Hz)	220-240V (50Hz)			
Construction - Blade Assembly	Anodised Aluminium Frame & Polycarbonate Housing			
Construction - Body / Box	Polycarbonate		PCM Sheet Metal	
Viewing Distance	20m			
Operating Temperature	0°C to 40°C			
Ingress Protection Rating (IP)	IP42		IP20	
IImpact Rating (IK)	IK03			

LUMINAIRE CLASSIFICATION	CLP	L10		CLP	L10	
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

SURFACE MOUNT

WALL MOUNT - SURFACE

220 | 43 | 18 | 110

RECESSED

WALL MOUNT - RECESSED

220 | 70 | 18 | 110

The product details described in this document are current as at the version date of the document. We reserve the right to change product design, specifications or materials (Specifications) as part of our continuous improvement program. Please confirm the applicable Specifications at the time of placing your order.

ORDERING INFORMATION		CLP	L10	CLP	L10
Mounting Configuration		Ceiling Mount - Surface (Single & Double Sided)		Ceiling Mount - Recessed (Single & Double Sided)	
	Standard	FORM-20-SM-CM-LP	FORM-20-SM-CM-L10	FORM-20-REC-CM-LP	FORM-20-REC-CM-L10
	Clevertest Plus System Compatible	Yes			
	DALI	FORM-20-SM-CM-LP-DALI	FORM-20-SM-CM-L10-DALI	FORM-20-REC-CM-LP-DALI	FORM-20-REC-CM-L10-DALI
	Zoneworks® XT Hive	FORM-20-SM-CM-LP-HVG	FORM-20-SM-CM-L10-HVG	FORM-20-REC-CM-LP-HVG	FORM-20-REC-CM-L10-HVG
	Escape Route Illumination	Yes (Add '-ESC' to end of product codes above)			
	Rod Suspended*	FORM-20-SM-CM-RS-LP	FORM-20-SM-CM-RS-L10	FORM-20-REC-CM-RS-LP	FORM-20-REC-CM-RS-L10
	Cable Suspended*	FORM-20-SM-CM-CS-LP	FORM-20-SM-CM-CS-L10	FORM-20-REC-CM-CS-LP	FORM-20-REC-CM-CS-L10
	Cable Suspended - Remote Gear*	FORM-20-SM-CM-CS-REM-LP	FORM-20-SM-CM-CS-REM-L10	FORM-20-REC-CM-CS-REM-LP	FORM-20-REC-CM-CS-REM-L10
	Flag Mount Bracket Available*	Yes	Yes	-	-
Carton Quantity		1			
Weight - Single (Standard)		0.8kg		0.7kg	
Dimensions (L X W X H)		220mm x 18mm x 110mm - Blade Assembly 220mm x 58mm x 45mm - Body / Box 1500mm x 5mm Ø Rod 1500mm x 1.4mm Ø Cable		220mm x 18mm x 110mm - Blade Assembly 228mm x 63mm x 55mm - Body / Box 245mm x 85mm - Cover Plate 1500mm x 5mm Ø Rod 1500mm x 1.4mm Ø Cable 230mm x 65mm - Cut Out	
Directional Options		All Directional Inserts Included			

*Escape Route Illumination not available

(Left margin label: TEST OPTIONS | PART NO)

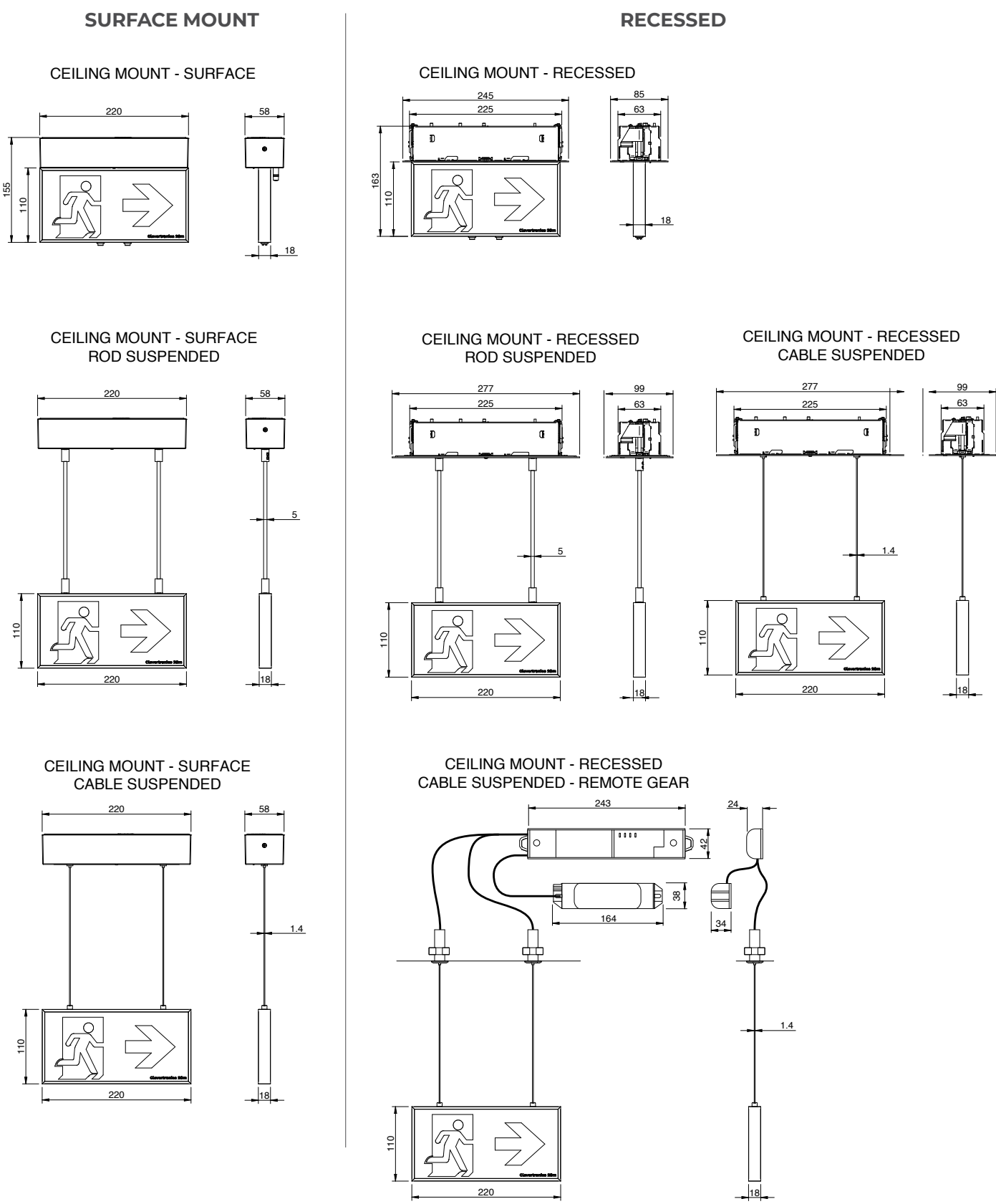| POWER, LAMPS AND BATTERY	CLP	L10	CLP	L10
Power Consumption (Standby / Max)*	1.2W / 3.3W			
Lamp(s)*	170,000 Hour LEDs			
Battery Type	Lithium Iron Phosphate	Lithium Nanophosphate®	Lithium Iron Phosphate	Lithium Nanophosphate®
Battery Configuration	Integral			
Voltage (V) / Capacity (mAh)	3.2V / 1100mAh	3.3V / 2500mAh	3.2V / 1100mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage			

*Please refer to the specific product datasheet for actual power consumption and lamp life

TECHNICAL SPECIFICATIONS	CLP	L10	CLP	L10
Operating Mode	Maintained			
Voltage (V) Frequency (Hz)	220-240V (50Hz)			
Construction - Blade Assembly	Anodised Aluminium Frame & Polycarbonate Housing			
Construction - Body / Box	Powder Coated Cast Aluminum		PCM Sheet Metal	
Viewing Distance	20m			
Operating Temperature	0°C to 40°C			
Ingress Protection Rating (IP)	IP20			
IImpact Rating (IK)	IK03			

LUMINAIRE CLASSIFICATION	CLP	L10		CLP	L10	
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

SURFACE MOUNT

CEILING MOUNT - SURFACE

CEILING MOUNT - SURFACE ROD SUSPENDED

CEILING MOUNT - SURFACE CABLE SUSPENDED

RECESSED

CEILING MOUNT - RECESSED

CEILING MOUNT - RECESSED ROD SUSPENDED

CEILING MOUNT - RECESSED CABLE SUSPENDED

CEILING MOUNT - RECESSED CABLE SUSPENDED - REMOTE GEAR

Surface Mounted Architectural Blade Exit Light

The Ultrablade Pro Surface Mount Exit Light is designed to satisfy architectural requirements in applications where a higher level of sophistication is required.

With the latest lithium battery and LED technology, maintenance and energy costs will be significantly reduced when compared to many alternatives.

Applications

- Office Buildings
- Retail outlets
- Galleries
- Apartments
- Shopping Centres

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Low standby power consumption
- Wall and ceiling mount
- Can be rod or chain suspended
- All directional decals in one box
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Theatre version available

Icons: LED | IP20 | Universal Mount | 3 HRS | Rod & Chain | LiFePO₄ | Theatre Option | 30M

ORDERING INFORMATION

ORDERING INFORMATION	CLP	L10
Standard - White	CUBPRO-SM	LUBPRO-SM
Standard - Black	CUBPRO-SM-BLK	LUBPRO-SM-BLK
Clevertest Plus System Compatible	Yes	
Wall Mount Flag Style	CUBPRO-V	LUBPRO-V
DALI	CUBPRO-SM-DALI	LUBPRO-SM-DALI
Zoneworks® XT Hive	CUBPRO-SM-HVG	LUBPRO-SM-HVG
Theatre Version	CUBPRO-SM-TH	LUBPRO-SM-TH
Carton Quantity	5	
Weight - Single (Carton)	1.1kg (5.5kg)	
Dimensions (L x W x H)	317mm x 8.7mm x 157mm - Blade Assembly 360mm x 47mm x 72mm - Base	
Directional Options	All Directional Inserts Included (Excluding theatre versions)	
Directional Options (Theatre Only)	Add Suffix to Part No, Double Sided -DS , Left Arrow -RL, Right -RR, Up -RU, Down -RD. eg CUBPRO-SM-TH-DS-RL	

(Left column label: TEST OPTIONS / PART #)

POWER, LAMPS AND BATTERY

| POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.8W / 3.9W	1.9W / 4.1W
Lamp(s)	100,000 Hour LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V /3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	
Rated Emergency Duration (Mins)	180	

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Construction - Body / Diffuser	PC-ABS / PC	
Viewing Distance	30m	
Mounting Type	Wall & Ceiling Mount (Single & Double Sided)	
Operating Temperature	0˚C to 40˚C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Product Configuration:
1. Surface Mount
2. Surface Mount (Wall Mount Flag Style)
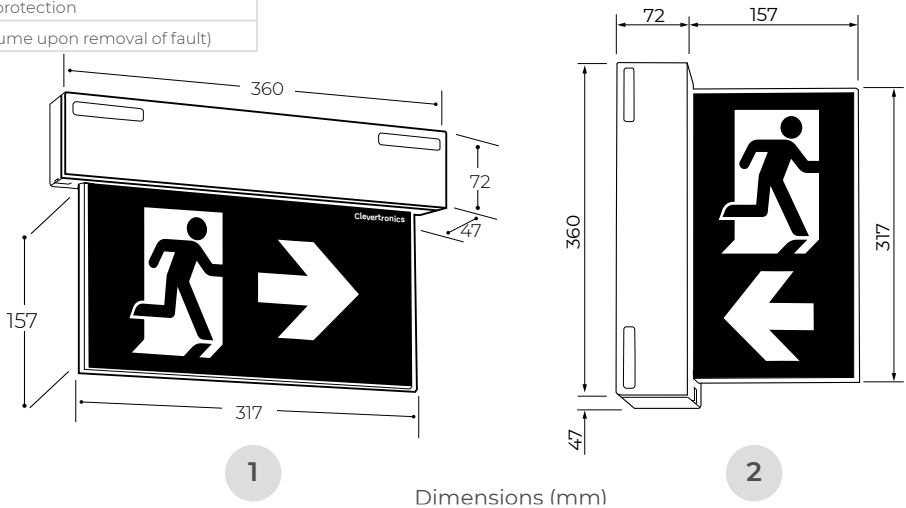
Dimensions: 360, 317, 157, 72, 72, 47, 360, 317, 47 (mm)

Dimensions (mm)

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Recessed Architectural Blade Exit Light

The Ultrablade Pro Recessed Exit Light is designed to satisfy architectural requirements in recessed ceiling applications where a higher level of sophistication is required.

Scratch resistant, fingerprint free decals and a reduced halo effect on the diffuser completes the visual appeal of the Ultrablade Pro Recessed Exit Light.

Applications

- Office Buildings
- Retail outlets
- Galleries
- Apartments
- Shopping Centres

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Low standby power consumption
- Wall and ceiling mount
- All directional decals in one box
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Theatre version available

LED | 3 HRS | 3HRS
Recessed Mount | LiFePO₄
Theatre Option
30M
IP20

ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CUBPRO	LUBPRO
	Standard - Black	CUBPRO-BLK	LUBPRO-BLK
	Clevertest Plus System Compatible	Yes	Yes
	Wall Mount Flag Style	CUBPRO-V	LUBPRO-V
	DALI	CUBPRO-DALI	LUBPRO-DALI
	Zoneworks® XT Hive	CUBPRO-HVG	LUBPRO-HVG
	Theatre Version	CUBPRO-TH	LUBPRO-TH
Carton Quantity		5	
Weight - single (carton)		1.1kg (5.5kg)	
Dimensions (L x W x H)		317mm x 8.7mm x 157mm - Blade Assembly 385mm x 67mm - Cover Plate 350mm x 48mm - Ceiling Cutout	
Directional Options		All Directional Inserts Included (Excluding Theatre Versions)	
Directional Options (Theatre Only)		Add Suffix to Part No, Double Sided -DS , Left Arrow -RL, Right -RR, Up -RU, Down -RD. eg CUBPRO-SM-TH-DS-RL	

| POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.8W / 3.9W	1.9W / 4.1W
Lamp(s)	100,000 Hour LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	
Rated Emergency Duration (mins)	180	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Construction - Body / Diffuser	PC-ABS / PC	
Viewing Distance	30m	
Mounting Type	Single and Double Sided	
Operating Temperature	0˚C to 40˚C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Product Configuration:
1. Recessed (Standard)
2. Recessed (Wall Mount Flag Style)
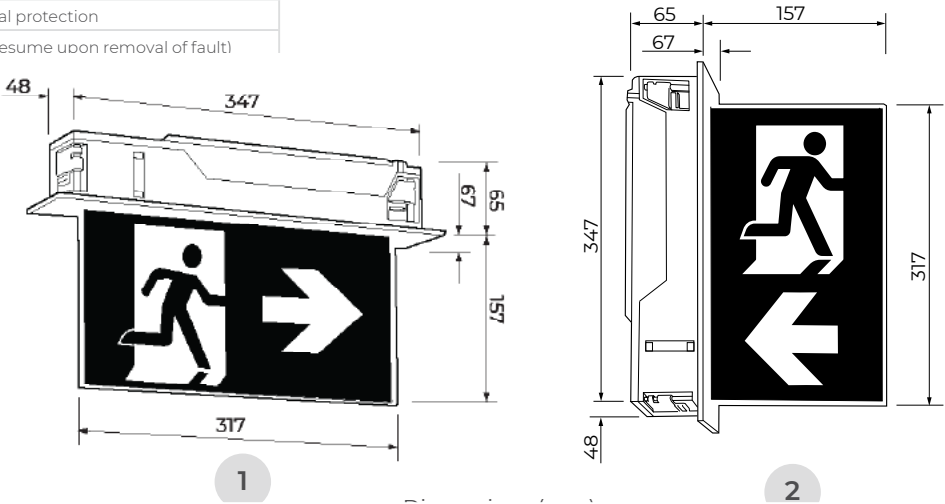
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Rod Suspended Architectural Blade Exit

The Ultrablade Pro Rod Suspended Exit Light is ideal for high ceiling applications where a sophisticated premium outcome is required.
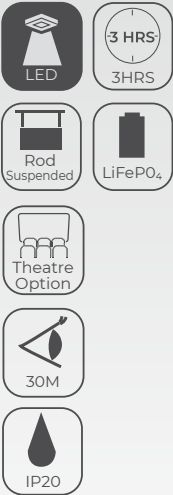
Each directional decal is scratch and fingerprint resistant to ensure a clean and consistent outcome.

The 1.5m rods can be customised to suit lower ceiling heights where required.

Applications

- Office Buildings
- Galleries
- Theatres
- Shopping Centres
- Retail Outlets
- Apartments

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Low standby power consumption
- Steel rods supplied with fitting
- All directional decals in one box
- Lithium Nanophosphate® battery
- Clevertest Plus System compatible
- Theatre version available

LED | 3 HRS / 3HRS
Rod Suspended | LiFePO4
Theatre Option
30M
IP20

ORDERING INFORMATION	ROD SUSPENDED (SURFACE MOUNT)	ROD SUSPENDED (RECESSED)
	L10	
Standard - White	LUBPRO-SM-RS	LUBPRO-RS
Standard - Black	LUBPRO-SM-RS-BLK	LUBPRO-RS-BLK
Clevertest Plus System Compatible	Yes	
DALI	LUBPRO-SM-RS-DALI	LUBPRO-RS-DALI
Zoneworks® XT Hive	LUBPRO-SM-RS-HVG	LUBPRO-RS-HVG
Theatre Version	LUBPRO-SM-RS-TH	LUBPRO-RS-TH
Carton Quantity	1	
Weight - Single (Carton)	1.5kg	
Dimensions (L x W x H)	Blade Assembly: 317mm x 8.7mm x 157mm Ceiling Mount Control Gear Enclosure: 360mm x 47mm x 72mm Rod Length: 1500mm	Blade Assembly: 317mm x 8.7mm x 157mm Recessed Control Gear Enclosure: 347mmx 48mm x 65mm Cover Plate: 385mm x 67mm Rod Length: 1500mm
Directional Options	All Directional Inserts Included (Excluding Theatre Versions)	
Directional Options (Theatre Only)	Add Suffix to Part No, Double Sided -DS , Left Arrow -RL, Right -RR, Up -RU, Down -RD. eg CUBPRO-SM-RS-TH-DS-RD	

POWER, LAMPS AND BATTERY	L10
Power Consumption (Standby / Max)	1.4W / 3.7W
Lamp(s)	100,000 Hours
Battery	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage

TECHNICAL SPECIFICATIONS	L10
Operating Mode	Maintained
Voltage (V) (Frequency (Hz))	220-240V (50Hz)
Construction	PC/ABS Body with PC Diffuser
Viewing Distance	30m
Operating Temperature	0°C to 40°C
Ingress Protection Rating (IP)	IP20

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

LUMINAIRE CLASSIFICATION	L10			
Without Automatic Testing	X	1	AG	180
With Automatic Testing	X	1	AFG	180

Product Configuration:
1 Rod Suspended (Surface Mount)
2 Rod Suspended (Recessed)
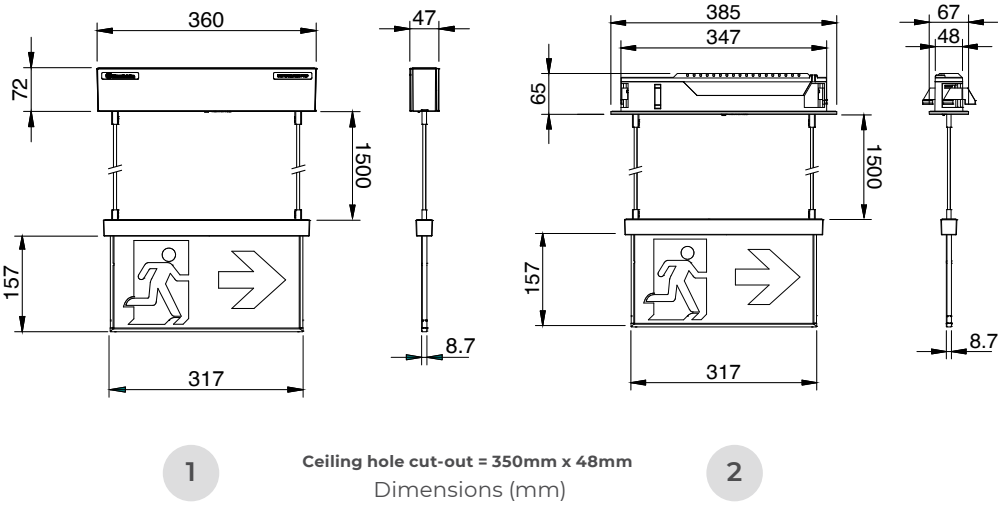
360 | 47 | 385 | 67
347 | 48
72 | 65
1500 | 1500
157 | 8.7 | 157 | 8.7
317 | 317

1 Ceiling hole cut-out = 350mm x 48mm Dimensions (mm) 2

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JUMBO LED EXIT LIGHT

Jumbo Exit for Larger Viewing Distances

The Jumbo Led Exit Light caters for 50m viewing distance applications by using a 250mm high pictograph.

Featuring a robust steel housing with slide-in diffusers and backplates for single and double-sided configurations, the Jumbo Led Exit Light is easy to install as a wall or ceiling mounted exit.

Applications

- Warehouses
- Factories
- Car Parks
- Stadiums
- Halls
- Train Stations

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Wall and ceiling mount
- Can be rod or chain suspended
- All directional decals in one box
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

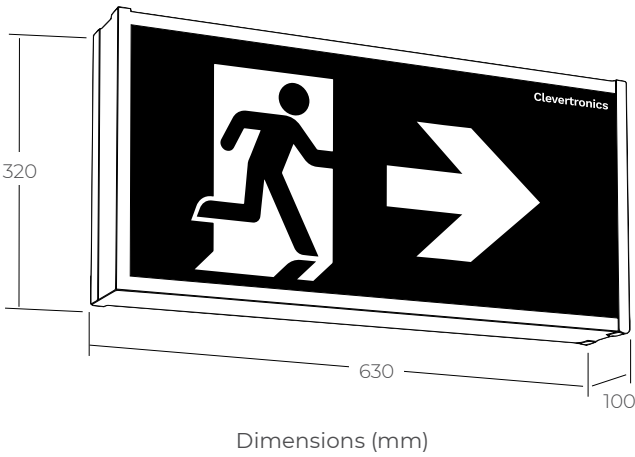LED | LiFePO₄ | Universal Mount | 50M | IP20 | 3 HRS

ORDERING INFORMATION	CLP	L10
Standard	CJELED-50	LJELED-50
Clevertest Plus System Compatible	Yes	Yes
DALI	CJELED-50-DALI	LJELED-50-DALI
Zoneworks® XT Hive	CJELED-50-HVG	LJELED-50-HVG
Carton Quantity	1	
Weight	7.3kg	
Dimensions (L x W x H)	630mm x 100mm x 320mm	
Directional Options	All Directional Inserts Included in the Box	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	3.2W / 5.6W	
Lamp(s)	100,000 Hour LED	
Battery Type	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Maintained	
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Construction - Body / Diffuser	Powder Coated Metal / Acrylic	
Viewing Distance	50m	
Mounting Type	Wall and Ceiling Single and Double Sided	
Operating Temperature	0°C to 40°C	
Ingress Protection Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

320
630
100

Dimensions (mm)

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Weatherproof and Easy to Install

The Weatherproof Universal Exit Light offers a cost-effective solution for applications that require an IP66/67 exit that can be either wall or ceiling mounted using single or double sided decals.

Applications

- Schools
- Public Amenities
- Factories
- Stadiums
- Car Parks
- Warehouses

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Wall or ceiling mount
- Can be rod or chain suspended
- All directional decals in one box
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Theatre version available

LED | IP66/67 | Universal Mount | IK10 | Rod & Chain | 3HRS | Theatre Option | LiFePO4 | 30M

CLP LITHIUM IRON PHOSPHATE — PREMIUM — PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE® — OPTIMUM — NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

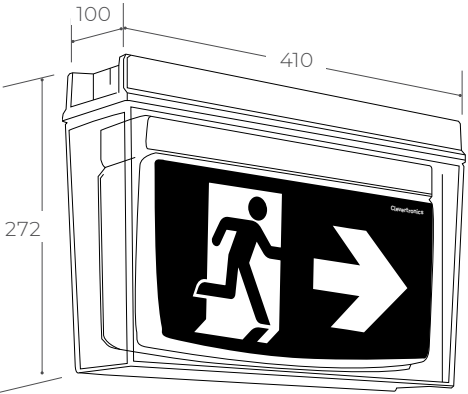| ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CWELED	LWELED
	Standard - Black	CWELED-BLK	LWELED-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CWELED-DALI	LWELED-DALI
	Zoneworks® XT Hive	CWELED-HVG	LWELED-HVG
	Theatre Version	CWELED-TH	LWELED-TH
Carton Quantity		4	
Weight - single (Carton)		2.8kg (11.2kg)	
Dimensions (L x W x H)		410mm x 100mm x 272mm	
Directional Options		All Directional Inserts Included (Excluding Theatre Versions)	
Directional Options (Theatre Only)		Add Suffix to Part No, Double Sided -DS , Left Arrow -RL, Right -RR, Up -RU, Down -RD. eg CWELED-TH-DS-RD	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby/Max)	3.7W / 4.9W	3.6W / 4.5W
Lamp(s)	100,000 Hours LEDs	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 1500mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Maintained	
Voltage (V) Frequency (Hz)	220-240V(50Hz)	
Construction	Cleverfit Inside Glass Reinforced Nylon Base and PC Cover	
Viewing Distance	30m	
Mounting Type	Wall and Ceiling (Single and Double Sided)	
Operating Temperature	0°C to 40°C	
Ingress Protection Rating (IP)	IP66/67	
Impact Rating (IK)	IK10	

ACCESSORIES	CLP	L10
Cantilever Bracket	CLVBRT-CF-WP	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

100
410
272

Dimensions (mm)

The product details described in this document are current as at the version date of the document. We reserve the right to change product design, specifications or materials (Specifications) as part of our continuous improvement program. Please confirm the applicable Specifications at the time of placing your order.

Suitable for Cool Room and Freezer Applications

The Low Temperature Exit Light range is designed for cool room and freezer applications where the temperature can drop to -40°C. The range consists of IP66/67 exits that include lithium battery technology which ensures significant maintenance savings compared to other alternatives.

Integral battery luminaires perform in temperatures between -25°C to +40°C. Remote gear luminaires perform in temperatures between -40°C to +40°C.

Applications

- Cool Rooms
- Food Processing
- Freezers
- Alpine Regions

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Wall mount / ceiling mount
- Lithium Nanophosphate® battery
- Clevertest Plus System compatible
- Rated to -40°C with remote control gear

LED | -25°C
Universal Mount | -40°C
30M | 3 HRS / 3HRS
IP66/67 | LiFePO₄
IK10

ORDERING INFORMATION

ORDERING INFORMATION	L10	
Product Configuration	Universal Mount with Integral Gear ①	Universal Mount with Remote Enclosed Gear ① ②
Operating Temperature	-25°C TO 40°C	-40°C TO 40°C (EXIT) 0°C TO +40°C (REMOTE CONTROL GEAR)
Standard	LWEPRO-FZR	LWELED-IPREM
Zoneworks® XT Hive	LWEPRO-FZR-HVG	LWELED-HVG-IPREM
Clevertest Plus System Compatible	No	Yes
Directional Options	All Directional Inserts Included	
Carton Quantity	1	
Weight - Single (Carton)	3.4kg	4.8kg
Dimensions (L X W X H) - Exit	410mm x 100mm x 272mm	410mm x 100mm x 272mm
Dimensions (L X W X H) - Remote Enclosed Gear	-	380mm x 190mm x 130mm

(PART # in left margin)

POWER, LAMPS AND BATTERY

POWER, LAMPS AND BATTERY	L10	
Power Consumption (Standby / Max)	1.4W / 3.5W	3.6W / 4.6W
Lamp(s)	100,000 Hours LED	
Battery	Lithium Nanophosphate®	
Voltage (V) / Capacity (mAh)	3.3V / 5000mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	L10
Operating Mode	Maintained
Voltage (V) (Frequency (Hz)	240V AC (50HZ)
Construction - Body / Diffuser	Exit: PC/ABS Body with PC Diffuser / Enclosure PC Clear Cover, Glass Reinforced Nylon Base
Viewing Distance	30m
Ingress Protection Rating (IP)	IP66/67
Impact Rating (IK)	IK10

LUMINAIRE CLASSIFICATION

| LUMINAIRE CLASSIFICATION	L10			
Without Automatic Testing	X	1	AG	180
With Automatic Testing	X	1	AFG	180

PROTECTION

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Product Configuration:

① L10 Universal Mount Intergral Gear

① ② L10 Universal Mount with Remote Enclosed Gear
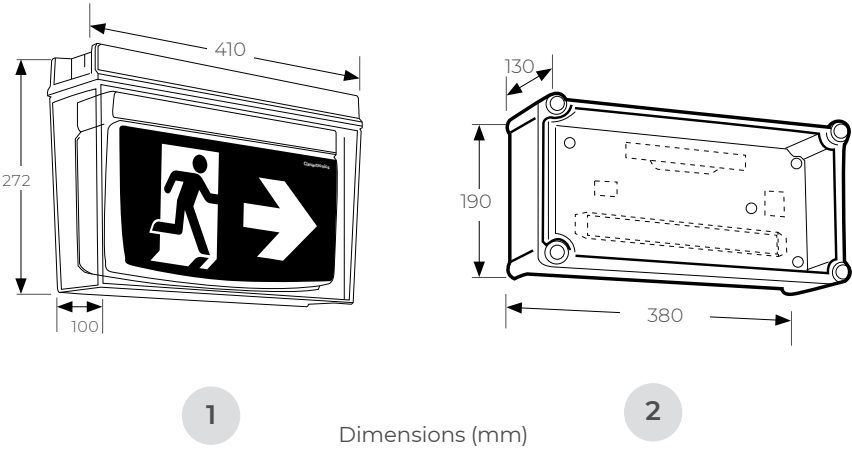
410 / 272 / 100
130 / 190 / 380

Dimensions (mm)
1   2

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A Strong, Robust and Reliable Exit Light

The Clevertronics Vandal Resistant Exit Light is a high impact exit that utilises the Cleverfit Pro Exit Light within a powder coated steel IK12 enclosure that is electrically isolated for ease of maintenance.

It provides an effective solution for prisons, correction facilities, train stations and other applications where impact resistance may be required.

Applications

- Public Amenities
- Stadiums
- Car Parks
- Schools
- Train Stations
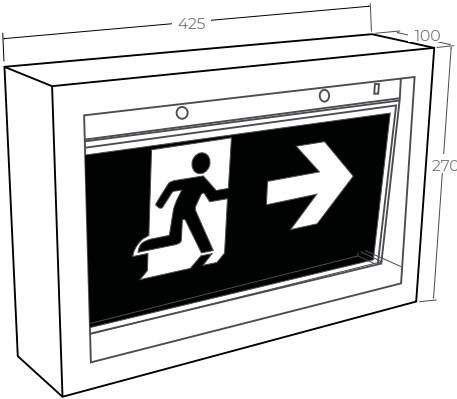- Correctional Facilities
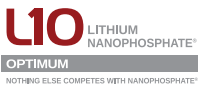
Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010
- Wall, ceiling and flag mount options
- All directional decals in one box
- Lithium Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

	LED	IP20
	Wall Mount	IK10
	Ceiling Mount	IK12
	Flag Mount	3HRS
	30M	LiFePO₄

Ordering Information

ORDERING INFORMATION		CEILING MOUNTED	WALL MOUNTED	FLAG MOUNTED
	Standard	LVELED-CM	LVELED-WM	LVELED-FM
	Clevertest Plus System Compatible		Yes	
	DALI	LVELED-CM-DALI	LVELED-WM-DALI	LVELED-FM-DALI
	Zoneworks® XT Hive	LVELED-CM-HVG	LVELED-WM-HVG	LVELED-FM-HVG
Carton Quantity			1	
Weight			6.6kg	
Dimensions (L x W x H)			425mm x 100mm x 270mm	
Directional Options			All Directional Inserts Included	

Power, Lamps and Battery

POWER, LAMPS AND BATTERY	L10
Power Consumption (Standby / Max)	3.6W / 5.6W
Lamp(s)	100,000 hours
Battery	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage

Technical Specifications

TECHNICAL SPECIFICATIONS	L10
Operating Mode	Maintained
Voltage (V) (Frequency (Hz))	220-240V (50Hz)
Construction	Cleverfit Pro Inside Powder Coated Metal Frame and PC Diffuser
Viewing Distance	30m
Operating Temperature	0˚C to 40˚C
Ingress Protection Rating (IP)	IP20
Impact Rating (IK)	IK12 (Wall and Ceiling Mounted), IK10 (Flag Mounted)

Luminaire Classification

LUMINAIRE CLASSIFICATION	L10			
Without Automatic Testing	X	1	AG	180
With Automatic Testing	X	1	AFG	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Dimensions (mm)

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CleverEVAC

DYNAMIC EXIT SIGNAGE

Dynamic GREEN LEDs for Highest Visibility

Research by the Fire Safety Engineering Group (FSEG) found that people often didn't notice static exit signage, whereas significantly more people noticed dynamic exit signage. This led to the development of the CleverEVAC Dynamic Green Exit Light.

The Dynamic Green mode is activated upon a loss of mains power. It can also be triggered either by a 24VDC or a voltage free open/close signal from the fire detection or other building safety system.

The SoundEscape™ option which combines the audible locatable sound technology including voice announcements is available with the Dynamic Green Exit Light.

Suitable for Most Applications

- Office Buildings
- Stadiums
- Car Parks
- Schools
- Shopping Centres
- Theatres
- Airports
- Transit Centres

SoundEscape™ option.

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010 in non-dynamic mode
- Low standby power consumption
- Wall and ceiling mount with easy slide connect
- Lithium Iron Phosphate or Nanophosphate® battery
- Locatable sound technology
- SoundEscape™ option available
- Weatherproof option available
- Theatre version available

LED | IP20
Dynamic Signage | Sound Escape
Ceiling Mount | 3HRS
Wall Mount | LiFePO₄
Theatre Option | 30M

CLP LITHIUM IRON PHOSPHATE — PREMIUM — PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE® — OPTIMUM — NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

ORDERING INFORMATION		CLP	CLP W/SOUNDESCAPE	L10	L10 W/SOUNDESCAPE
TEST OPTIONS | PART NO	Standard - Running Man Right	DYGC-CP-RR	DYGC-CP-RR-SND	DYGL-CP-RR	DYGL-CP-RR-SND
	- Running Man Left	DYGC-CP-RL	DYGC-CP-RL-SND	DYGL-CP-RL	DYGL-CP-RL-SND
	- Running Man Up	DYGC-CP-RU	DYGC-CP-RU-SND	DYGL-CP-RU	DYGL-CP-RU-SND
	- Running Man Down	DYGC-CP-RD	DYGC-CP-RD-SND	DYGL-CP-RD	DYGL-CP-RD-SND
	Zoneworks® XT Hive	Yes		Yes	
	Theatre Version Option	Yes	-	Yes	-
	Weatherproof Option	Yes	-	Yes	-
Weight - Single		2.0kg	2.4kg	2.0kg	2.4kg
Dimensions (L x W x H)		367mm x 214mm x 72mm	446mm x 214mm x 72mm	367mm x 214mm x 72mm	446mm x 214mm x 72mm

* -NO denotes a Normally Open signal from the fire system. Normally Closed -NC also available. For additional variants please refer to the Clevertronics Product Guide or website.
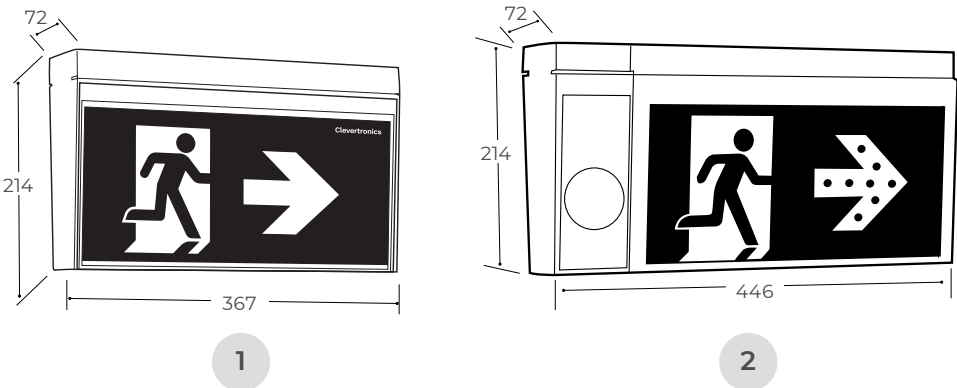
POWER, LAMPS AND BATTERY	CLP	CLP W/ SOUNDESCAPE	L10	L10 W/ SOUNDESCAPE
Power Consumption (Standby / Max)	3.1 W / 7.5 W	4.0 W / 10.0 W	3.1 W / 7.5 W	4.0 W / 10.0 W
Lamp(s)	100,000 Hour LEDs		100,000 Hour LEDs	
Battery	Lithium Iron Phosphate	Lithium Iron Phosphate & Nickel Cadmium (Sounder Unit)	Lithium Nanophosphate®	Lithium Nanophosphate® & Nickel Cadmium (Sounder Unit)
Voltage (V) / Capacity (mAh)	3.3V / 3200mAh	3.2V 3200mAh / 3.6V 600mAh (Sounder Unit)	3.3V / 2500mAh	3.3V 5000mAh / 3.6V 600mAh (Sounder Unit)
Charging Method	Intelligent Current Limited Constant Voltage		Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	CLP W/ SOUNDESCAPE	L10	L10 W/ SOUNDESCAPE
Operating Mode	**Maintained** – Dynamic modes activated on VF/24V input trigger & capable of being activated in power-on & battery-backed mode. **Normally open (NO) version** – Dynamic Green and Sound activated (turned on) when contact interface is closed. Normally Closed (NC) also available.			
Voltage (V) Frequency (Hz)	220-240V (50Hz)			
Construction- Body/Diffuser	PC/ABS Body with PC Diffuser			
Viewing Distance	30m			
Mounting Type	Wall & Ceiling (Single & Double Sided) Wall & Ceiling (Single Sided /w SoundEscape)			
Operating Temperature	0°C to 40°C			
IP Rating (IP)	IP20			

LUMINAIRE CLASSIFICATION	CLP				CLP W/ SOUNDESCAPE				L10				L10 W/ SOUNDESCAPE			
Without Automatic Testing	X	1	AG	180	X	1	AG	180	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180	X	1	AFG	180	X	1	AFG	180

Product Configuration:

1. Dynamic Green Exit light
2. Dynamic Green Exit light w/ SoundEscape™

72
214
367

72
214
446

Dimensions (mm)

1

2

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CleverEVAC

Dynamic RED X & GREEN LEDs for Highest Visibility

CleverEVAC Dynamic Red X Exit Light can display a red cross with flashing corners, alerting those evacuating to seek an alternative exit. Using advanced lighting and printing technology, the red cross with flashing corners has been proven through the Fire Safety Engineering Group (FSEG) research to be intuitive and effective in demonstrating negative enforcement.

The Dynamic Red X mode is triggered either by a 24VDC or voltage free open/close signal from the fire detection or other building safety system. The Dynamic Red X Exit Light also has the Dynamic Green mode built in, to accommodate different fire and evacuation scenarios. The use of the Red X must be designed and documented by a fire safety engineer.

Suitable for Most Applications

- Office Buildings
- Stadiums
- Car Parks
- Schools
- Shopping Centres
- Theatres
- Airports & Transit
- Heritage Buildings

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Built in Dynamic GREEN function.

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010 in non-dynamic mode
- Low standby power consumption
- Wall and ceiling mount with easy slide connect
- Lithium Iron Phosphate or Nanophosphate® battery
- Capable of positive re-enforcement Dynamic Green
- Zoneworks® XT Hive compatible
- Weatherproof option available
- Theatre version available

LED | IP20 | Dynamic Signage | 3 HRS / 3HRS | Ceiling Mount | LiFePO₄ | Wall Mount | 30M | Theatre Option

ORDERING INFORMATION		CLP	L10
	Standard - Running Man Right	DYRC-CP-RR	DYRL-CP-RR
	- Running Man Left	DYRC-CP-RL	DYRL-CP-RL
	- Running Man Up#	DYRC-CP-RU	DYRL-CP-RU
	- Running Man Down#	DYRC-CP-RD	DYRL-CP-RD
	Zoneworks® XT Hive	Yes	Yes
	Theatre Version Option	Yes	Yes
	Weatherproof Option	Yes	Yes
Weight		2.0kg	2.0kg
Dimensions (L x W x H)		367mm x 214mm x 80mm	367mm x 214mm x 80mm

* -NO denotes a Normally Open signal from the fire system. Normally Closed -NC also available.

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.5 W / 8.0 W	
Lamp(s)	100,000 Hour LEDs	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	**Maintained** – Sequencing inward green LEDs or illuminated Red X with side flashing Red LED's on closing of the VF/24V contact and capable of being activated in power-on and battery-backed mode. **Normally open (NO) version** – Dynamic Green or illuminated Red X when contact interface is closed.	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Construction - Body/Diffuser	PC/ABS Body with PC Diffuser	
Viewing Distance	30m	
Mounting Type	Wall & Ceiling (Single & Double Sided) Wall & Ceiling (Single Sided /w SoundEscape)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

80 | 214 | 367

Dimensions (mm)

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Dynamic GREEN LEDs for Highest Visibility in a Blade

CleverEVAC

Research by the Fire Safety Engineering Group (FSEG) found that people often didn't notice static exit signage, whereas significantly more people noticed dynamic exit signage. This led to the development of the CleverEVAC Dynamic Green Blade Exit Light.

The Dynamic Green mode is activated upon a loss of mains power. It can also be triggered either by a 24VDC or a voltage free open/close signal from the fire detection or other building safety system.

The sophisticated look and design of the Dynamic Green Blade Exit Light will satisfy all architectural requirements for a premium recessed or surface mount exit.

Suitable for Most Applications

- Office Buildings
- Stadiums
- Shopping Centres
- Theatres
- Schools
- Airports & Transit

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010 in non-dynamic mode
- Low standby power consumption
- Lithium Iron Phosphate or Nanophosphate® battery
- Zoneworks® XT Hive compatible
- Theatre version available

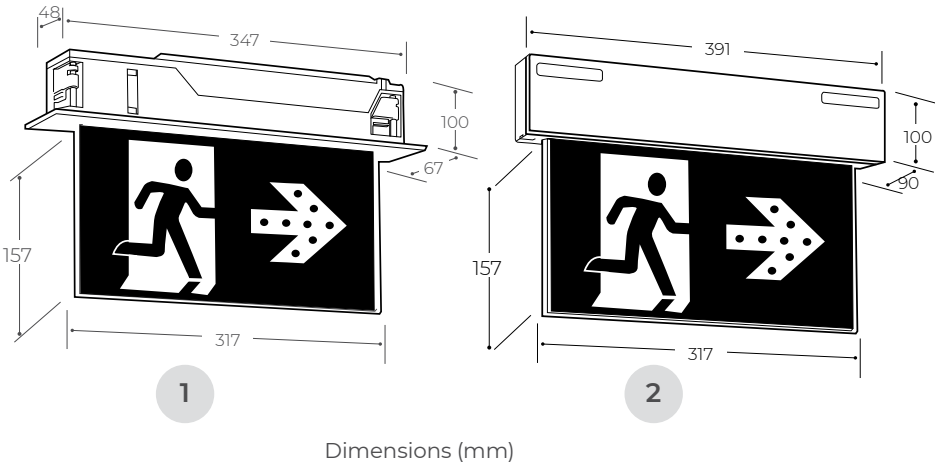LED | Theatre Option | Dynamic Signage | IP20 | Recessed Mount | 3 HRS / 3HRS | Ceiling Mount | LiFePO₄ | Wall Mount | 30M

ORDERING INFORMATION

ORDERING INFORMATION		CLP RECESSED	CLP CEILING MOUNT	CLP WALL MOUNT	L10 RECESSED	L10 CEILING MOUNT	L10 WALL MOUNT
TEST OPTIONS / PART #	Standard - Running Man Right	DYGC-UP-RR	DYGC-UP-CM-RR	DYGC-UP-WM-RR	DYGL-UP-RR	DYGL-UP-CM-RR	DYGL-UP-WM-RR
	- Running Man Left	DYGC-UP-RL	DYGC-UP-CM-RL	DYGC-UP-WM-RL	DYGL-UP-RL	DYGL-UP-CM-RL	DYGL-UP-WM-RL
	- Running Man Up	DYGC-UP-RU	DYGC-UP-CM-RU	DYGC-UP-WM-RU	DYGL-UP-RU	DYGL-UP-CM-RU	DYGL-UP-WM-RU
	- Running Man Down	DYGC-UP-RD	DYGC-UP-CM-RD	DYGC-UP-WM-RD	DYGL-UP-RD	DYGL-UP-CM-RD	DYGL-UP-WM-RD
	Zoneworks® XT Hive				Yes		
	Theatre Version Option				Yes		
Carton Quantity					1		
Weight - Single (Carton)					2.0kg		
Dimensions (L x W x H)		385mm x 67mm x 257mm	391mm x 90mm x 257mm		385mm x 67mm x 257mm	391mm x 90mm x 252mm	

* for additional variants please refer to the Clevertronics Product Guide or website.

POWER, LAMPS AND BATTERY

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	3.1 W / 7.5 W	3.1 W / 7.5 W
Lamp(s)	100,000 Hour LEDs	100,000 Hour LEDs
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.2V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	Intelligent Current Limited Constant Voltage

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	**Maintained** - Sequencing arrows/inward LEDs activated on VF/24V input trigger & capable of being activated in power-on & battery-backed mode	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Construction - Body/Diffuser	PC/ABS Body with PC Diffuser	
Viewing Distance	30m	
Mounting Type	Recessed, Surface Mount Options, Single-Sided, Double-Sided	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

Product Configuration:

1 Recessed

2 Ceiling/Wall Mount

48 | 347 | 100 | 67 | 157 | 317

391 | 100 | 90 | 157 | 317

Dimensions (mm)

1   2

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CleverEVAC

Dynamic Red & Green LEDs for Highest Visibility in a Blade

The CleverEVAC Dynamic Red X Blade Exit Light can display a red cross with flashing corners, alerting those evacuating to seek an alternative exit. Using advanced lighting and printing technology, the red cross with flashing corners has been proven through the Fire Safety Engineering Group (FSEG) research to be intuitive and effective in demonstrating negative enforcement. The sophisticated look and design of the blade will satisfy all architectural requirements and is available as a recessed or surface mount.

The Red X mode is triggered either by a 24VDC or voltage free open/close signal from the fire detection or other building safety system. The Green mode is also built in, to accommodate different fire and evacuation scenarios. The use of the Red X must be designed and documented by a fire safety engineer.

Built in Dynamic GREEN function.

Suitable for Most Applications

- Office Buildings
- Theatres
- Stadiums
- Schools
- Shopping Centres
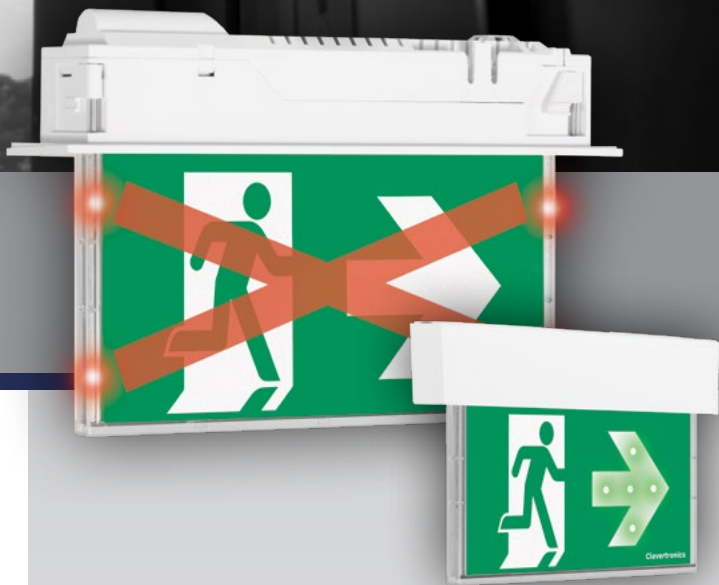- Airports & Transit

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Compliant to EN1838 and ISO7010 in non-dynamic mode
- Low standby power consumption
- Lithium Iron Phosphate or Nanophosphate® battery
- Negative enforcement options
- Capable of Positive Re-enforcement Dynamic Green
- Zoneworks® XT Hive compatible
- Theatre version available

LED · Theatre Option · Dynamic Signage · IP20 · Recessed Mount · 3 HRS · Ceiling Mount · LiFePO₄ · Wall Mount · 30M

ORDERING INFORMATION		CLP RECESSED	CLP CEILING MOUNT	CLP WALL MOUNT	L10 RECESSED	L10 CEILING MOUNT	L10 WALL MOUNT
TEST OPTIONS / PART #	Standard - Running Man Right	DYRC-UP-RR	DYRC-UP-CM-RR	DYRC-UP-WM-RR	DYRL-UP-RR	DYRL-UP-CM-RR	DYRL-UP-WM-RR
	- Running Man Left	DYRC-UP-RL	DYRC-UP-CM-RL	DYRC-UP-WM-RL	DYRL-UP-RL	DYRL-UP-CM-RL	DYRL-UP-WM-RL
	- Running Man Up	DYRC-UP-RU	DYRC-UP-CM-RU	DYRC-UP-WM-RU	DYRL-UP-RU	DYRL-UP-CM-RU	DYRL-UP-WM-RU
	- Running Man Down	DYRC-UP-RD	DYRC-UP-CM-RD	DYRC-UP-WM-RD	DYRL-UP-RD	DYRL-UP-CM-RD	DYRL-UP-WM-RD
	Zoneworks® XT Hive	Yes					
	Theatre Version Option	Yes					
Carton Quantity		1					
Weight - Single (Carton)		2.0kg					
Dimensions (L x W x H)		385mm x 67mm x 257mm	391mm x 90mm x 257mm		385mm x 67mm x 257mm	391mm x 90mm x 257mm	

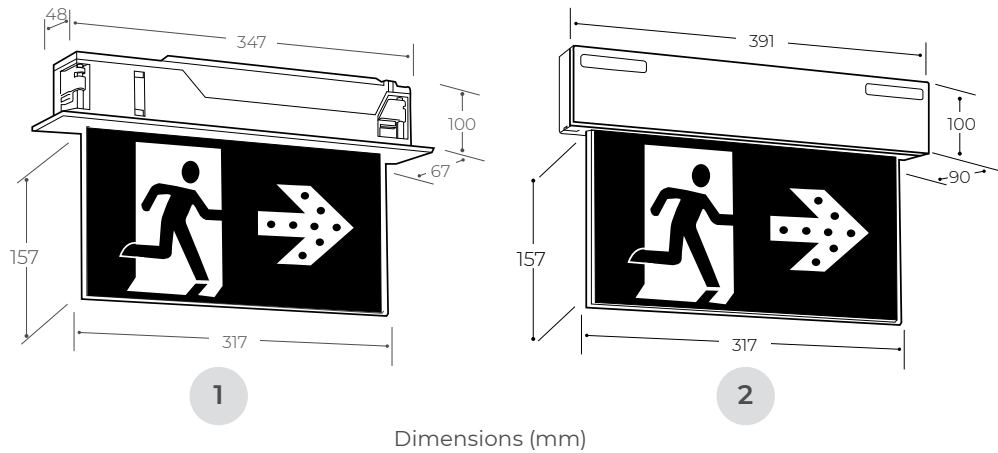* for additional variants please refer to the Clevertronics Product Guide or website.

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.7 W / 8.7 W	1.7 W / 8.7 W
Lamp(s)	100,000 Hour LEDs	100,000 Hour LEDs
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 9600mAh	3.3V / 7500mAh
Charging Method	Intelligent Current Limited Constant Voltage	Intelligent Current Limited Constant Voltage

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	**Maintained** – Sequencing inward green LEDs or illuminated Red X with side flashing red LED's activated on VF/24V input trigger & capable of being activated in power-on & battery-backed mode	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Construction - Body/Diffuser	PC/ABS body with PC Diffuser	
Viewing Distance	30m	
Mounting Type	Recessed, Surface Mount Options, Single-Sided	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	1	AG	180	X	1	AG	180
With Automatic Testing	X	1	AFG	180	X	1	AFG	180

Product Configuration:

1 Recessed

2 Ceiling/Wall Mount

48 · 347 · 100 · 67 · 157 · 317

391 · 100 · 90 · 157 · 317

1

2

Dimensions (mm)

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EMERGENCY
LIGHTING

LED Recessed Emergency Luminaire

The Lifelight Recessed Emergency Luminaire is a sleek architectural recessed emergency light that is powered with lithium batteries to ensure long life and significant maintenance savings over alternative options.

Each product is supplied with a 145mm adaptor plate to enable an easy retrofit installation.

Applications

- Office Buildings
- Apartments
- Schools
- Retail Outlets

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- 145mm adaptor plate for retrofitting
- Low power consumption
- Spring clips for easy installation
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED | LiFePO₄ | Recessed Mount | IP20 | Non-Maintained | 3 HRS / 3HRS

ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CLIFE	LLIFE
	Standard - Black	CLIFE-BLK	LLIFE-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CLIFE-DALI	LLIFE-DALI
	Zoneworks® XT Hive	CLIFE-HVG	LLIFE-HVG
Carton Quantity		10 pieces	
Weight -Single (Carton)		0.8kg (9.7kg)	
Dimensions (L x W x H) - Control Pack		232mm x 51mm x 42mm	
Dimensions - Head Diameter		95mm	
Dimensions - Adaptor plate		145mm	
Ceiling Hole Cut-Out		85mm	
Minimum Ceiling Depth		120mm	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.4W / 4.7W	1.0W / 4.2W
Lamp(s)	1 x LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	0	AD	180	X	0	AD	180
With Automatic Testing	X	0	ADF	180	X	0	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	10.5	10.1	10.5	10.1	4.5	4.4	4.5	4.4
3	11.3	10.3	11.3	10.3	4.2	4.4	4.2	4.4
4	11.4	10.9	11.4	10.9	4.6	4.4	4.6	4.4
5	11.6	11.1	11.6	11.1	4.4	4.1	4.4	4.1

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area
Luminaires arranged in a regular array

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	11	11	11	11	3.5	3.7	3.5	3.7
3	11	11.5	11	11.5	4	3.8	4	3.8
4	13	12.9	13	12.9	4	3.9	4	3.9
5	14	13.9	14	13.9	4.5	4	4.5	4

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Ø145 (Adaptor plate)
Ø95

Dimensions (mm)

LED Surface Mount Emergency Luminaire

The Lifelight Surface Mount Emergency Luminaire is a sleek polycarbonate luminaire that features market-leading lithium battery technology and energy efficient LEDs.

The Lifelight delivers lower maintenance and energy costs and continues to lead the way in a variety of emergency lighting applications.

Applications

- Office Buildings
- Apartments
- Schools
- Retail Outlets

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Low power consumption
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED | LiFePO₄ | Surface Mounted | IP20 | Non-Maintained | 3 HRS / 3HRS

ORDERING INFORMATION

ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CLIFE-SM	LLIFE-SM
	Standard - Black	CLIFE-SM-BLK	LLIFE-SM-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CLIFE-SM-DALI	LLIFE-SM-DALI
	Zoneworks® XT Hive	CLIFE-SM-HVG	LLIFE-SM-HVG
Carton Quantity		10	
Weight - Single		0.6kg	
Dimensions (L x W x H)		242mm x 125mm x 48mm	

POWER, LAMPS AND BATTERY

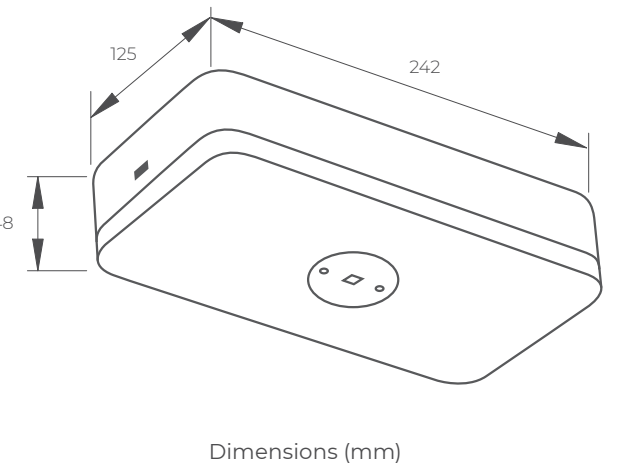| POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.3W / 3.0W	1.3W / 3.0W
Lamp(s)	1 x LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	O	AD	180	X	O	AD	180
With Automatic Testing	X	O	ADF	180	X	O	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	Escape Routes 1 Lux min. along centre line							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	10.8	10.6	10.8	10.6	3.3	3.5	3.3	3.5
3	11.2	10.9	11.2	10.9	3.8	3.2	3.8	3.2
4	11.8	11.5	11.8	11.5	3.3	3.6	3.3	3.6
5	12.1	11.7	12.1	11.7	3.0	3.4	3.0	3.4

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	11.2	10.9	11.2	10.9	3.7	2.2	3.7	2.2
3	11.8	11.6	11.8	11.6	3.7	2.5	3.7	2.5
4	13.2	12.5	13.2	12.5	3.9	2.7	3.9	2.7
5	14.3	14.2	14.3	14.2	3.3	2.5	3.3	2.5

PROTECTION

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)
Kit box (enclosure) of lamp controlgear provides protection against accidental contacts with live parts

125 | 242 | 48

Dimensions (mm)

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LED Recessed Lifelight with Splashproof Head

The Splashproof Lifelight is a recessed emergency luminaire that is designed for use in applications where an IP44 rating is required, including escape and open area applications.

Complete with Lithium Iron Phosphate batteries to ensure low maintenance requirements.

Each product is supplied with a 145mm adaptor plate to enable an easy retrofit installation.

Applications

- Bathrooms
- Schools
- Gyms
- Aquatic Centres
- Public Amenities

CLP LITHIUM IRON PHOSPHATE — PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE® — OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- LED lamp
- IP44 splashproof head
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Supplied with additional corridor lens

LED
3 HRS / 3HRS
Recessed Mount
LiFePO4
IP44
Non-Maintained
Corridor Lens

ORDERING INFORMATION	CLP	L10
Standard - White	CLIFE-RECSP	LLIFE-RECSP
Standard - Black	CLIFE-RECSP-BLK	LLIFE-RECSP-BLK
Clevertest Plus System Compatible	Yes	
DALI	CLIFE-RECSP-DALI	LLIFE-RECSP-DALI
Zoneworks® XT Hive	CLIFE-RECSP-HVG	LLIFE-RECSP-HVG
Carton Quantity	10 Pieces	
Weight - Single (Carton)	0.8kg (9kg)	
Dimensions (L x W x H)	232mm X 51mm X 42mm (Control Pack) 95mm Head Diameter	

(TESTING OPTIONS / PART#)

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)*	1.4W / 4.7W	1W / 4.2W
Lamp(s)	Single LED	Single LED
Lens	Fitted with Area Lens. Additional Corridor Lens in Box†	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

| TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) (Frequency (Hz))	240V AC; 50Hz	
Operating Temperature	0°C to 40°C	
Ingress Protection Rating (IP) (Parts Below Ceiling)	IP44	
Ingress Protection Rating (IP) (Parts Above Ceiling)	IP20	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	O	AD	180	X	O	AD	180
With Automatic Testing	X	O	ADF	180	X	O	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS								
CEILING MOUNTING HEIGHT (M)	Escape Routes 1 Lux min. along centre line (when fitted with corridor lens)							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	23.0	19.4	-	-	9.7	5.8	-	-
3	24.2	19.3	-	-	9.5	5.8	-	-
4	22.5	17.3	-	-	4.7	3.8	-	-
5	18.8	14.3	-	-	3.9	3.8	-	-

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS								
CEILING MOUNTING HEIGHT (M)	Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array (when fitted with area lens)							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	11.1	10.7	11.1	10.7	5.8	3.8	5.4	3.8
3	12.1	11.6	12.1	11.6	5.8	3.7	5.8	3.7
4	15.3	14.9	15.3	14.9	5.4	4.7	5.4	4.7
5	17.2	17.1	17.2	17.1	3.4	1.5	3.4	1.5

†For further information on the corridor lens please contact Clevertronics.

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

ø95
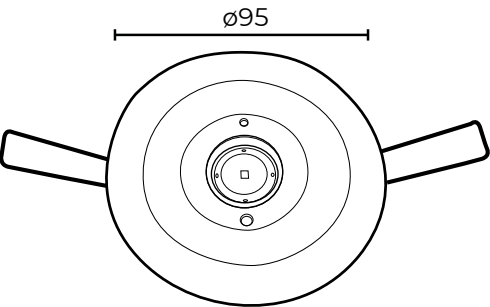
Ceiling hole cut-out = 80mm
Dimensions (mm)
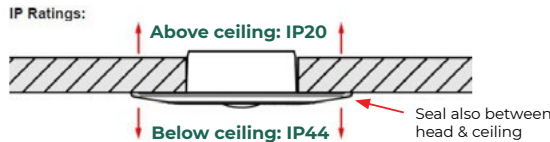
IP Ratings:
Above ceiling: IP20
Below ceiling: IP44
Seal also between head & ceiling

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LED Surface Mount Emergency Light

The Lifelight Weatherproof Surface Mount Emergency Luminaire is a sleek weatherproof polycarbonate luminaire that features market leading lithium battery technology and energy efficient LEDs.

The Lifelight Surface Mount IP65 includes options for both open area and escape evacuation applications.

Applications

- Bathrooms
- Schools
- Gyms
- Aquatic Centres
- Public Amenities

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Low power consumption
- IP65
- Supplied with additional corridor lens for escape evacuation applications
- Lithium Iron Phosphate or Nanophosphate® battery
- Clevertest Plus System compatible

LED | 3 HRS / 3HRS | Surface Mounted | LiFePO₄ | IP65 | Non-Maintained | Corridor Lens

ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CLIFE-SM-WP	LLIFE-SM-WP
	Standard - Black	CLIFE-SM-WP-BLK	LLIFE-SM-WP-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CLIFE-SM-WP-DALI	LLIFE-SM-WP-DALI
	Zoneworks® XT Hive	CLIFE-SM-WP-HVG	LLIFE-SM-WP-HVG
Carton Quantity		10 Pieces	
Weight - Single (Carton)		0.8kg (9kg)	
Dimensions (L x W x H)		247mm x 129mm x 51mm	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	1.0W / 4.2W	
Lamp(s)	1 x LED	
Lens	Fitted with Area Lens. Additional Corridor Lens in Box†	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 3200mAh	3.3V / 2500mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP65	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	0	AD	180	X	0	AD	180
With Automatic Testing	X	0	ADF	180	X	0	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line (when fitted with corridor lens)

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	23.0	19.4	-	-	9.7	5.8	-	-
3	24.2	19.3	-	-	9.5	5.8	-	-
4	22.5	17.3	-	-	4.7	3.8	-	-
5	18.8	14.3	-	-	3.9	3.8	-	-

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array (when fitted with area lens)

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	11.1	10.7	11.1	10.7	5.8	3.8	5.4	3.8
3	12.1	11.6	12.1	11.6	5.8	3.7	5.8	3.7
4	15.3	14.9	15.3	14.9	5.4	4.7	5.4	4.7
5	17.2	17.1	17.2	17.1	3.4	1.5	3.4	1.5

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)
Kit box (enclosure) of lamp controlgear provides protection against accidental contacts with live parts

129 / 51 / 247

Dimensions (mm)

†For further information on the corridor lens please contact Clevertronics.

Premium LED Emergency Luminaire

The Lifelight Pro Recessed Emergency Luminaire is a small sleek architecturally designed recessed LED emergency light that is available as round or square head options to suit various style scenarios.

The Lifelight Pro provides a significant increase in emergency lighting coverage when compared to other emergency luminaires and will deliver lower maintenance costs due to the high-performance lithium battery technology options.

Applications

- Office Buildings
- Showrooms
- Galleries
- Retail Outlets
- Apartments
- Theatres

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- 95mm adaptor plate for retrofitting
- Low power consumption
- Spring clips for easy installation
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Round or square head

LED | LiFePO₄
Recessed Mount
IP20
Non-Maintained
3 HRS / 3HRS

ORDERING INFORMATION

		CLP		L10	
TEST OPTIONS / PART #	Standard - White	CLIFE-PRO	CLIFE-PRO-SQ	LLIFE-PRO	LLIFE-PRO-SQ
	Standard - Black	CLIFE-PRO-BLK	CLIFE-PRO-SQ-BLK	LLIFE-PRO-BLK	LLIFE-PRO-SQ-BLK
	Clevertest Plus System Compatible		Yes		
	DALI	CLIFE-PRO-DALI	CLIFE-PRO-SQ-DALI	LLIFE-PRO-DALI	LLIFE-PRO-SQ-DALI
	Zoneworks® XT Hive	CLIFE-PRO-HVG	CLIFE-PRO-SQ-HVG	LLIFE-PRO-HVG	LLIFE-PRO-SQ-HVG
Carton Quantity		10 Pieces			
Weight - single (carton)		0.8kg (9.7kg)			
Dimensions (L x W x H) - Control Pack		232mm x 40mm x 40mm			
Dimensions - Head		ø60mm	60mm x 60mm	ø60mm	60mm x 60mm
Dimensions - Adaptor Plate		ø95mm	-	ø95mm	-
Ceiling Hole Cut-Out		ø51mm	51mm x 51mm	ø51mm	51mm x 51mm
Minimum Ceiling Depth		200mm			

POWER, LAMPS AND BATTERY

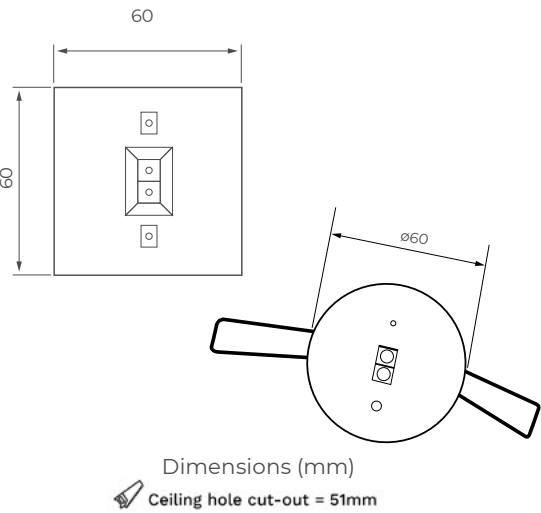|	CLP	L10
Power Consumption (Standby / Max)	0.4W / 2.7W	0.4W / 3.6W
Lamp(s)	2 x LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) /Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS

	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION

	CLP				L10			
Without Automatic Testing	X	0	AD	180	X	0	AD	180
With Automatic Testing	X	0	ADF	180	X	0	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	13.2	13.0	13.2	13.0	4.1	4.4	4.1	4.4
3	13.7	13.4	13.7	13.4	5.0	4.4	5.0	4.4
4	14.9	14.5	14.9	14.5	4.9	4.4	4.9	4.4
5	15.6	15.2	15.6	15.2	5.0	4.5	5.0	4.5

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	13.5	13.4	13.5	13.4	3.6	3.7	3.6	3.7
3	14.2	14.0	14.2	14.0	2.9	3.2	2.9	3.2
4	16.1	15.9	16.1	15.9	4.0	3.3	4.0	3.3
5	17.7	17.4	17.7	17.4	4.2	3.6	4.2	3.6

PROTECTION

Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

60
60
ø60

Dimensions (mm)
Ceiling hole cut-out = 51mm

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Premium LED Surface Mount Emergency Luminaire

The Lifelight Pro Surface Mount Emergency Luminaire range offers an energy efficient, lithium powered LED emergency light. The Lifelight Pro provides a significant increase in emergency lighting coverage when compared to other emergency luminaires.

Suitable in a variety of applications the Lifelight Pro will provide outstanding performance and will reduce installation and maintenance costs.

Applications

- Office Buildings
- Galleries
- Apartments
- Showrooms
- Retail outlets
- Theatres

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Low power consumption
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

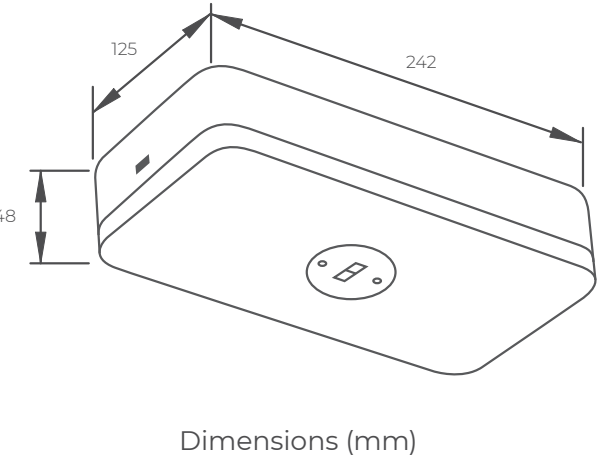LED | LiFePO₄ | Surface Mounted | IP20 | Non Maintained | 3 HRS / 3HRS

ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CLIFE-PRO-SM	LLIFE-PRO-SM
	Standard - Black	CLIFE-PRO-SM-BLK	LLIFE-PRO-SM-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CLIFE-PRO-SM-DALI	LLIFE-PRO-SM-DALI
	Zoneworks® XT Hive	CLIFE-PRO-SM-HVG	LLIFE-PRO-SM-HVG
Carton Quantity		10 Pieces	
Weight - Single		0.7kg	0.7kg
Dimensions (L x W x H)		242mm x 125mm x 48mm	

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	0.4W / 3.6W	0.4W / 3.6W
Lamp(s)	2 x LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	0	AD	180	X	0	AD	180
With Automatic Testing	X	0	ADF	180	X	0	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	12.5	12.1	12.5	12.1	5.25	5.2	5.2	5.2
3	13.0	12.5	13.0	12.5	5.0	5.3	5.0	5.3
4	14.3	13.5	14.3	13.5	5.85	5.5	5.8	5.5
5	14.7	14.0	14.7	14.0	5.65	5.4	5.6	5.4

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area
Luminaires arranged in a regular array

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	12.0	12.5	12.0	12.5	4.5	4.7	4.5	4.7
3	13.0	13.4	13.0	13.4	5.0	4.6	5.0	4.6
4	15.0	15.0	15.0	15.0	5.5	4.9	5.5	4.9
5	17.0	16.4	17.0	16.4	5.5	5.0	5.5	5.0

PROTECTION

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)
Kit box (enclosure) of lamp controlgear provides protection against accidental contacts with live parts

125 | 242 | 48

Dimensions (mm)

Premium LED Architectural Emergency Light

The Lifelight Pro Surface Mount Cylinder Emergency Luminaire is an energy efficient, lithium powered LED emergency light in a small and sleek architectural design. The Lifelight Pro Surface Mount Cylinder provides an amazing 60% increase in emergency lighting coverage compared to many existing emergency lights on the market.

Suitable in a variety of applications the Lifelight Pro Surface Mount Cylinder will provide outstanding performance and reduce installation and maintenance costs.

- Office Buildings
- Galleries
- Apartments
- Showrooms
- Retail Outlets
- Theatres

Features and Benefits

- Tested to BS EN 60598-2-22
- Low power consumption
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED | LiFePO₄
Surface Mounted
IP20
Non Maintained
3 HRS

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

ORDERING INFORMATION		CLP	L10
Standard - White		CLIFE-PRO-SMC	LLIFE-PRO-SMC
Standard - Black		CLIFE-PRO-SMC-BLK	LLIFE-PRO-SMC-BLK
Clevertest Plus System Compatible		Yes	
DALI		CLIFE-PRO-SMC-DALI	LLIFE-PRO-SMC-DALI
Zoneworks® XT Hive		CLIFE-PRO-SMC-HVG	LLIFE-PRO-SMC-HVG
Carton Quantity		1 Piece	1 Piece
Weight - Single (Carton)		1.5kg	1.5kg
Dimensions (L x W x H)		128mm (D) x 245mm	128mm (D) x 245mm

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)	0.4W / 2.7W	
Lamp(s)	2 x LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP20	

ACCESSORIES	CLP	L10
Wall Mount Bracket White	2740045	
Wall Mount Bracket Black	2740048	

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	O	AD	180	X	O	AD	180
With Automatic Testing	X	O	ADF	180	X	O	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	13.2	13.0	13.2	13.0	4.1	4.4	4.1	4.4
3	13.7	13.4	13.7	13.4	5.0	4.4	5.0	4.4
4	14.9	14.5	14.9	14.5	4.9	4.4	4.9	4.4
5	15.6	15.2	15.6	15.2	5.0	4.5	5.0	4.5

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array

CEILING MOUNTING HEIGHT (M)	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	13.5	13.4	13.5	13.4	3.6	3.7	3.6	3.7
3	14.2	14.0	14.2	14.0	2.9	3.2	2.9	3.2
4	16.1	15.9	16.1	15.9	4.0	3.3	4.0	3.3
5	17.7	17.4	17.7	17.4	4.2	3.6	4.2	3.6

PROTECTION

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)
Kit box (enclosure) of lamp controlgear provides protection against accidental contacts with live parts

128
245
0

Dimensions (mm)

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LIFELIGHT PRO IP44 SPLASH-PROOF RECESSED EMERGENCY LUMINAIRE

Recessed Lifelight Pro with Splashproof Head

The IP44 Splash-Proof Lifelight Pro Recessed Emergency Luminaire is an energy efficient, Lithium powered LED emergency light for use where an IP44 rating is required for open area or escape evacuation application.

Featuring a sleek design, the Splash-proof Lifelight Pro Recessed Emergency Luminaire will provide outstanding performance and reduce installation and maintenance costs.

Applications

- Bathrooms
- Schools
- Gyms
- Aquatic Centres
- Public Amenities

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- IP44 splash-proof head
- Lithium Iron Phosphate or Nanophosphate battery
- Supplied with additional corridor lens for escape evacuation applications
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED | LiFePO₄
Recessed Mount | Corridor Lens
IP44
Non-Maintained
3 HRS / 3HRS

ORDERING INFORMATION

ORDERING INFORMATION		CLP	L10
TEST OPTIONS / PART #	Standard - White	CLIFE-PRO-RECSP	LLIFE-PRO-RECSP
	Standard - Black	CLIFE-PRO-RECSP-BLK	LLIFE-PRO-RECSP-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CLIFE-PRO-RECSP-DALI	LLIFE-PRO-RECSP-DALI
	Zoneworks® XT Hive	CLIFE-PRO-RECSP-HVG	LLIFE-PRO-RECSP-HVG
Carton Quantity		10 Pieces	
Weight - Single (Carton)		0.8kg (9kg)	
Dimensions (L x W x H)		232mm X 51mm X 42mm (Control Pack) 60mm Head Diameter	

*Due to small head & ceiling cut out, access from behind/above ceiling is required for installation.

POWER, LAMPS AND BATTERY

POWER, LAMPS AND BATTERY	CLP	L10
Power Consumption (Standby / Max)*	0.4W / 2.7W	0.4W / 2.7W
Lamp(s)	Dual LED	Dual LED
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS

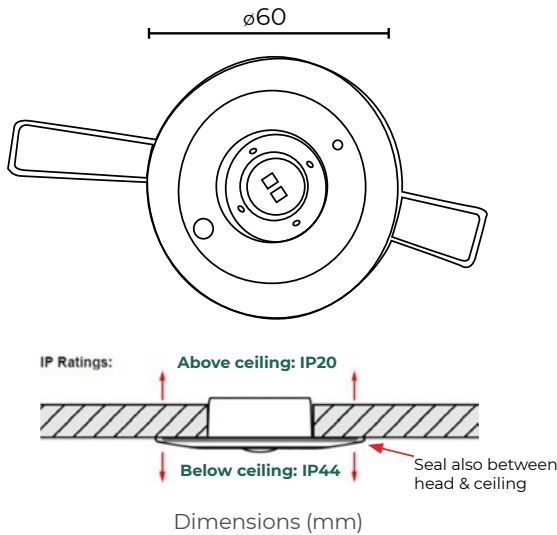| TECHNICAL SPECIFICATIONS	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) (Frequency (Hz))	240V AC; 50Hz	
Operating Temperature	0˚C to 40˚C	
Ingress Protection Rating (IP) (Parts Below Ceiling)	IP44	
Ingress Protection Rating (IP) (Parts Above Ceiling)	IP20	

LUMINAIRE CLASSIFICATION

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	0	AD	180	X	0	AD	180
With Automatic Testing	X	0	ADF	180	X	0	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	Escape Routes 1 Lux min. along centre line							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	14.9	14.8	14.9	14.8	5.5	5.3	5.5	5.3
3	15.9	15.8	15.9	15.8	6.0	5.3	6.0	5.3
4	18.4	18	18.4	18	5.9	5.1	5.9	5.1
5	18.6	17.6	18.6	17.6	5.2	4.5	5.2	4.5

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	11.3	11.2	11.3	11.2	5.5	3.8	5.5	3.8
3	12.4	12.1	12.4	12.1	4.5	4.7	4.5	4.7
4	15.8	15.7	15.8	15.7	7.0	6.0	7.0	6.0
5	19.0	18.9	19.0	18.9	7.2	5.8	7.2	5.8

†For further information on the corridor lens please contact Clevertronics.

PROTECTION

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

ø60

IP Ratings:
Above ceiling: IP20
Below ceiling: IP44
Seal also between head & ceiling

Dimensions (mm)

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Premium LED Weatherproof Surface Mount Emergency Luminaire

The Lifelight Pro Weatherproof Surface Mount Emergency Luminaire provides IP65 ingress protection in a small and sleek polycarbonate housing that is easy to install.

With market-leading lithium battery technology and energy efficient LEDs, the Lifelight Pro Weatherproof Surface Mount delivers lower maintenance and energy costs.

Applications

- Bathrooms
- Aquatic Centres
- Schools
- Public Amenities
- Gyms

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Low power consumption
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- IP65

LED | LiFePO₄ | Surface Mounted | IP65 | Non-Maintained | 3 HRS / 3HRS

ORDERING INFORMATION

TEST OPTIONS / PART #		CLP	L10
	Standard - White	CLIFE-PRO-SM-WP	LLIFE-PRO-SM-WP
	Standard - Black	CLIFE-PRO-SM-WP-BLK	LLIFE-PRO-SM-WP-BLK
	Clevertest Plus System Compatible	Yes	
	DALI	CLIFE-PRO-SM-WP-DALI	LLIFE-PRO-SM-WP-DALI
	Zoneworks® XT Hive	CLIFE-PRO-SM-WP-HVG	LLIFE-PRO-SM-WP-HVG
	Carton Quantity	10 Pieces	
	Weight - Single	0.8kg	
	Dimensions (L x W x H)	247mm x 129mm x 51mm	

POWER, LAMPS AND BATTERY

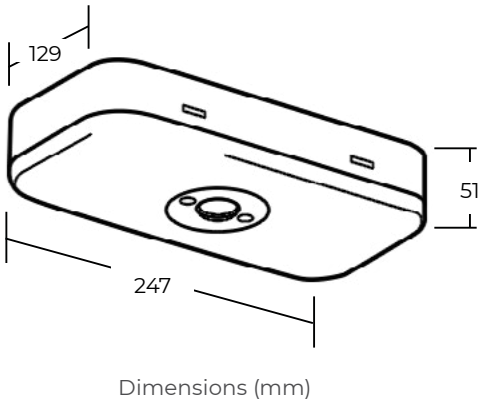|	CLP	L10
Power Consumption (Standby / Max)	0.4W / 2.7W	
Lamp(s)	2 x LED	
Lens	Dual LED	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	

TECHNICAL SPECIFICATIONS

	CLP	L10
Operating Mode	Non-Maintained	
Voltage (V) Frequency (Hz)	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
IP Rating (IP)	IP65	
Impact raing (IK)	IK08	

LUMINAIRE CLASSIFICATION

	CLP				L10			
Without Automatic Testing	X	O	AD	180	X	O	AD	180
With Automatic Testing	X	O	ADF	180	X	O	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	Escape Routes 1 Lux min. along centre line							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	14.9	14.8	14.9	14.8	5.5	5.3	5.5	5.3
3	15.9	15.8	15.9	15.8	6.0	5.3	6.0	5.3
4	18.4	18	18.4	18	5.9	5.1	5.9	5.1
5	18.6	17.6	18.6	17.6	5.2	4.5	5.2	4.5

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array							
	Axial Spacing		Transverse Spacing		Axial to Wall		Transverse to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
2.7	11.3	11.2	11.3	11.2	5.5	3.8	5.5	3.8
3	12.4	12.1	12.4	12.1	4.5	4.7	4.5	4.7
4	15.8	15.7	15.8	15.7	7.0	6.0	7.0	6.0
5	19.0	18.9	19.0	18.9	7.2	5.8	7.2	5.8

PROTECTION

Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)
Kit box (enclosure) of lamp controlgear provides protection against accidental contacts with live parts

†For further information on the corridor lens please contact Clevertronics.

129
51
247

Dimensions (mm)

Emergency Lighting for Low Temperature Applications

The Low Temperature Emergency lighting range is designed for cool room and freezer applications where the temperature can drop to -40°C.

The range comprises of an integrated option that is rated for -25°C and a remote control gear option that will handle -40°C.

Both options are constructed with polycarbonate enclosures and are rated IP66/67.

Applications

- Cool Rooms
- Freezers
- Food Processing
- Alpine Regions

CLP LITHIUM IRON PHOSPHATE — PREMIUM — PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE® — OPTIMUM — NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- AS/NZS 2293.3 compliant
- IP66/67
- IK08
- -25°C and -40°C options
- Clevertest Plus System compatible

Icons: LED | -40°C | Surface Mounted | Non-Maintained | IP66/67 | 3 HRS | IK08 | LiFePO₄ | -25°C

ORDERING INFORMATION	CLP ①③	L10 ①③	L10 ②
Standard	CLIFE-PRO-WP-IPREM	LLIFE-PRO-WP-IPREM	LWPLIFE-PRO-FZR
Clevertest Plus System Compatible	Yes	Yes	-
DALI	CLIFE-PRO-WP-DALI-IPREM	LLIFE-PRO-WP-DALI-IPREM	-
Zoneworks® XT Hive	CLIFE-PRO-WP-HVG-IPREM	LLIFE-PRO-WP-HVG-IPREM	LWPLIFE-PRO-FZR-HVG
Carton Quantity	1		
Weight - Single (Carton)	1.4kg		3.5kg
Dimensions (L x W x H) - Control Pack	232mm x 40mm x 40mm		380mm x 190mm x 130mm
Dimensions (L x W x H) - Head	122mm x 120mm x 75mm		122mm x 120mm x 75mm

POWER, LAMPS AND BATTERY	CLP ①③	L10 ①③	L10 ②
Power Consumption (Standby / Max)	0.4W / 2.7W	0.4W / 4.7W	0.4W / 2.7W
Lamp(s)	Dual LED (Lifetime Warranty on the Lamp Head and Loom Assembly)		
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®	Lithium Nanophosphate®
Voltage / Capacity (mAh)	3.2V / 6400mAh	3.3V / 5000mAh	3.3V / 10Ah
Charging Method	Intelligent Current Limited Constant Voltage		

TECHNICAL SPECIFICATIONS	CLP ①③	L10 ①③	L10 ②
Operating Mode	Non-Maintained		
Voltage (V) (Frequency (Hz))	240V AC (50HZ)		
Operating Temperature	-40˚C to 40˚C		-25˚C to 40˚C
Ingress Protection Rating (IP)	IP66/67		IP66/67
Impact Rating (IK)	IK08		

LUMINAIRE CLASSIFICATION	CLP ①③				L10 ①③				L10 ②			
Without Automatic Testing	X	O	AD	180	X	O	AD	180	X	O	AD	180
With Automatic Testing	X	O	ADF	180	X	O	ADF	180	X	O	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

CEILING MOUNTING HEIGHT (M)	Axial Spacing CLP	Axial Spacing L10	Transverse Spacing CLP	Transverse Spacing L10	Axial to Wall CLP	Axial to Wall L10	Transverse to Wall CLP	Transverse to Wall L10
2.7	10.5	10.1	10.5	10.1	4.5	4.4	4.5	4.4
3	11.3	10.3	11.3	10.3	4.2	4.4	4.2	4.4
4	11.4	10.9	11.4	10.9	4.6	4.4	4.6	4.4
5	11.6	11.1	11.6	11.1	4.4	4.1	4.4	4.1

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array

CEILING MOUNTING HEIGHT (M)	Axial Spacing CLP	Axial Spacing L10	Transverse Spacing CLP	Transverse Spacing L10	Axial to Wall CLP	Axial to Wall L10	Transverse to Wall CLP	Transverse to Wall L10
2.7	11.0	11.0	11.0	11.0	3.5	3.7	3.5	3.7
3	11.0	11.5	11.0	11.5	4.0	3.8	4.0	3.8
4	13.0	12.9	13.0	12.9	4.0	3.9	4.0	3.9
5	14.0	13.9	14.0	13.9	4.5	4.0	4.5	4.0

PROTECTION

- Battery overvoltage & overcurrent protection
- Battery deep discharge protection
- Supply voltage polarity reversal protection
- Battery short-circuit protection (charging will resume upon removal of fault)
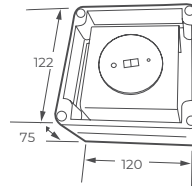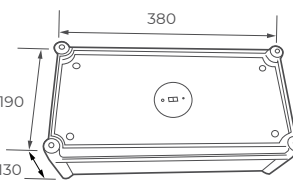
Product Configuration:

① Surface Mount

② Surface Mount with Integral Gear (-25°C)

③ WP Remote Enclosed Gear (-40°C)

Dimensions: 122, 75, 120 | 380, 190, 130 | 380, 190, 130
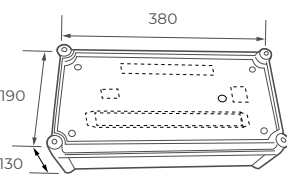
Dimensions (mm)

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LED Emergency Flood Light

The Supalite LED Flood is ideal for emergency lighting applications such as loading bays, car parks and evacuation points.

Available in IP20 or IP65 versions.

Applications

- Warehouses
- Factories
- Schools
- Car Parks
- Sports Facilities
- Railway Stations

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- IP65 Weatherproof version
- Low power consumption
- LED lamps
- 320-640 lumen options
- Lithium Iron Phosphate or Nanophosphate® battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED | 3 HRS 3HRS | Surface Mounted | LiFePO₄ | IP20 | IP65 | Non Maintained

ORDERING INFORMATION

ORDERING INFORMATION		CLP	CLP WEATHERPROOF	L10	L10 WEATHERPROOF
TEST OPTIONS / PART #	Standard - White	CFLLED	CWFLED	LFLLED	LWFLED
	Standard - Black	CFLLED-BLK	CWFLED-BLK	LFLLED-BLK	LWFLED-BLK
	Clevertest Plus System Compatible		Yes		
	DALI	CFLLED-DALI	CWFLED-DALI	LFLLED-DALI	LWFLED-DALI
	Zoneworks® XT Hive	CFLLED-HVG	CWFLED-HVG	LFLLED-HVG	LWFLED-HVG
Carton Quantity		10	1	10	1
Weight - Single (Carton)		1.4kg (15.2kg)	3.6kg	1.4kg (15.2kg)	3.6kg
Dimensions (L x W x H)		282mm x 64mm x 225mm	380mm x 130mm x 310mm	282mm x 64mm x 225mm	380mm x 130mm x 310mm

POWER, LAMPS AND BATTERY

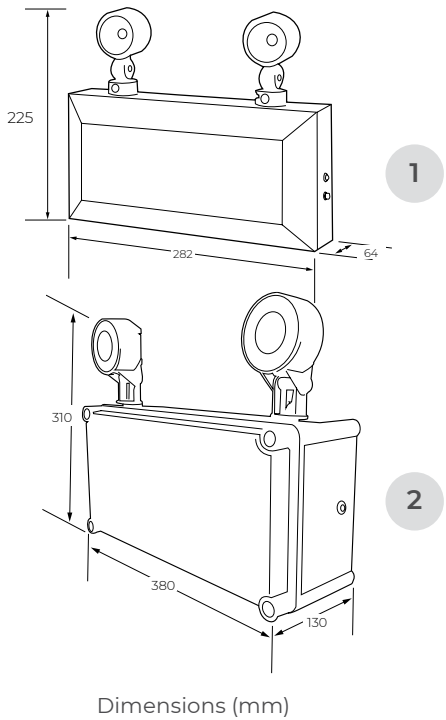| POWER, LAMPS AND BATTERY	CLP	CLP W/PROOF	L10	L10 W/PROOF
Power Consumption (Standby / Max)	0.4W / 2.7W	1.0W / 5.4W	0.4W / 2.7W	1.0W / 5.4W
Lamp(s)		2 x LED Heads		
Lumen Output (Per Head / Total)	155lm / 310lm	320lm / 640lm	185lm / 320lm	300lm / 600lm
Battery	Lithium Iron Phosphate		Lithium Nanophosphate®	
Voltage / Capacity (mAh)	3.2V / 6400mAh	6.4V / 3200mAh	3.3V / 5000mAh	6.6V / 2500mAh
Charging Method		Intelligent Current Limited Constant Voltage		

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	CLP	CLP W/PROOF	L10	L10 W/PROOF
Operating Mode		Non-Maintained		
Voltage (V) (Frequency (Hz))		220-240V(50Hz)		
Operating Temperature	0˚C to 40˚C	0˚C to 40˚C	0˚C to 40˚C	0˚C to 40˚C
Ingress Protection Rating (IP)	IP20	IP65	IP20	IP65

LUMINAIRE CLASSIFICATION

LUMINAIRE CLASSIFICATION	CLP				L10			
Without Automatic Testing	X	0	AD	180	X	0	AD	180
With Automatic Testing	X	0	ADF	180	X	0	ADF	180

Lux Spacing Tables

CEILING MOUNTING HEIGHT (M)	IP20 - 1 LUX SPACING TABLE AND MOUNTING HEIGHTS				WEATHERPROOF 1 LUX SPACING TABLE			
	Escape Routes 1 Lux min. along centre line				Escape Routes 1 Lux min. along centre line			
	Axial Spacing		Axial to Wall		Axial Spacing		Axial to Wall	
	CLP	L10	CLP	L10	CLP	L10	CLP	L10
4	14.0	14.0	6.4	6.2	17.3	16.9	7.6	7.6
6	17.6	17.6	8.0	7.9	21.3	20.8	9.2	9.2
8	18.6	18.6	8.4	7.9	24.5	24.0	10.0	10.0
10	18.8	18.9	8.2	8.1	27.1	26.6	10.9	10.9
12	18.2	18.3	7.8	7.7	27.4	26.4	10.6	10.6

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Product Configuration:

1. Supalite
2. Weatherproof Supalite

225 | 282 | 64 | 310 | 380 | 130

Dimensions (mm)

CIRCULAR & BULKHEADS

CIRCULARS & BULKHEADS

Square LED Emergency Luminaire

The Argonaut Square Emergency Luminaire is an IP65 and IK10 rated luminaire that is ideal for applications such as car parks, corridors, stairwells and walkways.

Market leading lithium battery technology provides lower maintenance costs and LED lamps combined with high/low sensors provides an opportunity to reduce energy costs significantly.

Constructed with a die cast aluminium body and polycarbonate diffuser the Argonaut Square provides a robust and decorative emergency lighting solution.

Applications

- Apartments
- Factories
- Schools
- Car Parks
- Public Amenities
- Sports Facilities

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

Features and Benefits

- Tested to BS EN 60598-2-22
- IP65
- IK10
- Die cast aluminium body
- LED lamps
- Lithium Iron Phosphate battery
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible
- Microwave sensor option

LED | IK10
Sensor | 3 HRS / 3HRS
Surface Mounted | LiFePO₄
Sustained
IP65

ORDERING INFORMATION		CLP		MAINS	
Standard - White	ARGOSQ-LP	ARGOSQ-SEN-LP	ARGOSQ	ARGOSQ-SEN
Clevertest Plus System Compatible	Yes	Yes	-	
DALI	ARGOSQ-LP-DALI	ARGOSQ-SEN-LP-DALI	-	-
Zoneworks® XT Hive	ARGOSQ-LP-HVG	ARGOSQ-SEN-LP-HVG	-	-
Carton Quantity		4			
Weight - single (carton)	3.5kg (14.5kg)	3.5kg (14.5kg)	3.0kg (12.5kg)	3.0kg (12.5kg)
Dimensions (L x W x H)		321mm x 321mm x 97mm			

(TEST OPTIONS / PART #)

POWER, LAMPS AND BATTERY	CLP		MAINS	
Power Consumption (Standby / Max)	0.4W / 24.2W	0.4W / 24.3W	21.2W	3.1W / 21.6W
Lamp(s)	LED Module, 4000K (L70/B50 Ta 40°C; Reported >60,000hr, Projected 205,000hr)			
Total Lumen Output	3242lm		3242lm	
Voltage (V) /Capacity (mAh)	3.3V / 6400mAh		-	
Battery	Lithium Iron Phosphate		-	
Charging Method	Intelligent Current Limited Constant Voltage		-	

TECHNICAL SPECIFICATIONS	CLP	MAINS
Operating Mode	Maintained	Non-Emergency
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Operating Temperature	0°C to 40°C	
Ingress Protection Rating (IP)	IP65	
Impact Rating (IK)	IK10	

LUMINAIRE CLASSIFICATION	CLP			
Without Automatic Testing	X	1	AD	180
With Automatic Testing	X	1	ADF	180

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

CEILING MOUNTING HEIGHT (M)	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	CLP	CLP	CLP	CLP
2.7	12.6	12.6	4.5	4.5
3	13.2	13.2	5.0	5.0
4	14.8	14.8	4.9	4.9
5	16.0	16.0	5.6	5.6

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

Escape Routes 1 Lux min. along centre line

WALL MOUNTING HEIGHT (M)	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	CLP	CLP	CLP	CLP
2.1	-	9.3	-	3.3
2.4	-	9.5	-	3.3
3	-	9.8	-	3.3

*Based on 3.3m high passageway - 2.5m wide

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array

CEILING MOUNTING HEIGHT (M)	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	CLP	CLP	CLP	CLP
2.7	12.9	12.9	2.8	2.8
3	13.7	13.7	3.4	3.4
4	15.4	15.4	3.7	3.7
5	16.4	16.4	3.7	3.7

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

Dimensions (mm)
97
321
321
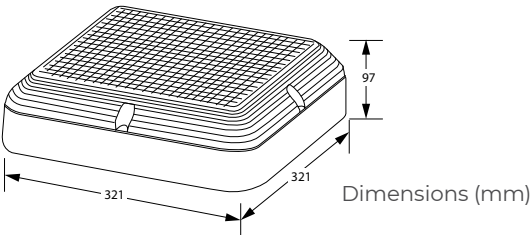
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LED Circular Emergency light

The Circlite Luminaire is an IP54 LED luminaire that is ideal for applications such as corridors and walkways. Constructed with a polycarbonate body and opal acrylic diffuser the Circlite Luminaire offers a high performing solution that is energy efficient when combined with motion sensors.

Market leading lithium battery technology will provide significant maintenance savings compared to alternatives.

Applications

- Office Buildings
- Car Parks
- Public Amenities
- Railway Stations
- Schools
- Sports Facilities

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

Features and Benefits

- Tested to BS EN 60598-2-22
- IP54
- Microwave sensor options
- Lithium Iron Phosphate battery
- Large terminal block
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

ORDERING INFORMATION		CLP	CLP (SENSOR)	MAINS	MAINS (SENSOR)
TEST OPTIONS / PART #	Standard	CCIRC	CCIRC-MS-HL	FCIRC	FCIRC-MS-HL
	Clevertest Plus System Compatible	Yes		-	
	DALI	CIRC-DALI	CCIRC-MS-HL-DALI	-	-
	Zoneworks® XT Hive	CIRC-HVG	CCIRC-MS-HL-HVG	-	-
	Carton Quantity	5			
Weight - Single		1.8kg			
Dimensions (Diameter x H)		327mm x 100mm			

POWER, LAMPS AND BATTERY	CLP	CLP (SENSOR)	MAINS	MAINS (SENSOR)
Power Consumption (Standby / Max)	1.4W / 17.3W	7W / 18W	13W	15W
Lamp(s) (CCT / Life)	LED Module 4000K / 30,000hrs (L70 / B50)			
Nominal Lumen Output	1460lm	1460lm	1460lm	1460lm
Battery	Lithium Iron Phosphate		-	-
Voltage / Capacity (mAh)	3.2V / 6400mAh		-	-
Charging Method	Intelligent Current Limited Constant Voltage		-	-

TECHNICAL SPECIFICATIONS	CLP	MAINS
Operating Mode	Sustained	Non-Emergency
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Operating Temperature	0˚C to 40˚C	
Ingress Protection Rating (IP)	IP54	

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

WALL MOUNTING HEIGHT (M) ESCAPE ROUTE ONLY

Escape Routes 1 Lux min. along centre line

	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	CLP	CLP	CLP	CLP
2.1	8.1	8.1	2.3	2.3
2.4	8.2	8.2	2.3	2.3
2.7	8.2	8.2	2.3	2.3

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)

Escape Routes 1 Lux min. along centre line

	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	CLP	CLP	CLP	CLP
2.7	11.7	11.7	3.7	3.7
3	12.1	12.1	3.8	3.8
4	13.5	13.5	4.5	4.5
5	14.5	14.5	5.1	5.1

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array

	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	CLP	CLP	CLP	CLP
2.7	11.7	11.7	2.3	2.3
3	12.3	12.3	2.7	2.7
4	13.7	13.7	2.7	2.7
5	15.6	15.6	3.6	3.6

LUMINAIRE CLASSIFICATION	CLP			
Without Automatic Testing	X	2	AD	180
With Automatic Testing	X	2	ADF	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

*Warranty information located at: https://clevertronics.co.uk/product-warranty-statement/
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ø327

100

Dimensions (mm)

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Durable Bulkhead Luminaire

The Bulklite Emergency Luminaire is a durable and weatherproof IK08 impact rated LED emergency luminaire that can be easily configured to an exit sign using optional directional legends.

Made from UV stabilised polycarbonate and featuring efficient long life LED's and lithium battery power, the Bulklite is designed for robust wall or ceiling applications.

Applications

- Apartments
- Car Parks
- Factories
- Public Amenities
- Schools
- Sports Facilities

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Wall and ceiling mount
- IP65
- IK08
- Maintained and switched maintained options available
- Directional decals available separately
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED · 3HRS · Surface Mounted · LiFePO₄ · IP65 · Maintained · IK08 · Non Maintained

---

ORDERING INFORMATION

	CLP	L10
Standard (Non-Maintained)	CBULK	LBULK
Clevertest Plus System Compatible	Yes	
DALI	CBULK-DALI	LBULK-DALI
Zoneworks® XT Hive	CBULK-HVG	LBULK-HVG
Maintained	CBULKM	LBULKM
Switched Maintained	CBULKM-SA	LBULKM-SA
Carton Quantity	1	
Weight - Single (Carton)	2.0kg	
Dimensions (L x W x H)	346mm x 132mm x 86mm	
Directional Options	Available Separately	

TEST OPTIONS / PART #

POWER, LAMPS AND BATTERY

|	CLP	L10
Power Consumption (Standby / Max)	0.4W / 4.7W	
Lamp(s)	LED Module 4000K / 30,000hrs	
Battery	Lithium Iron Phosphate	Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	6.4V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage	
Rated Emergency Duration (Mins.)	180	

TECHNICAL SPECIFICATIONS

Operating Mode	Non-Maintained/Maintained/Switched Maintained
Voltage (V) Frequency (Hz)	220-240V (50Hz)
Operating Temperature	0°C to 40°C
Viewing Distance (Exit Option)	20m
IP Rating (IP)	IP65
Impact Rating (IK)	IK08

LUMINAIRE CLASSIFICATION

Without Automatic Testing	X	0	AD	180
With Automatic Testing	X	0	ADF	180

EXIT DECALS (AVAILABLE SEPARATELY)

Up Arrow	BULKLITE-DECAL-RU
Down Arrow	BULKLITE-DECAL-RD
Left Arrow	BULKLITE-DECAL-RL
Right Arrow	BULKLITE-DECAL-RR

SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)	1 LUX SPACING TABLE AND MOUNTING HEIGHTS — Escape Routes 1 Lux min. along centre line				0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS — Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array			
	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
2.7	11.7	11.0	5.0	4.7	12.5	10.2	3.9	4.2
3	12.1	11.4	5.1	4.8	13.0	10.7	4.1	4.5
4	13.3	12.7	5.4	5.0	14.7	12.0	5.3	5.7
5	14.1	12.7	5.6	5.0	16.1	12.9	4.6	4.9

PROTECTION

Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

OPTIONAL DECAL SET
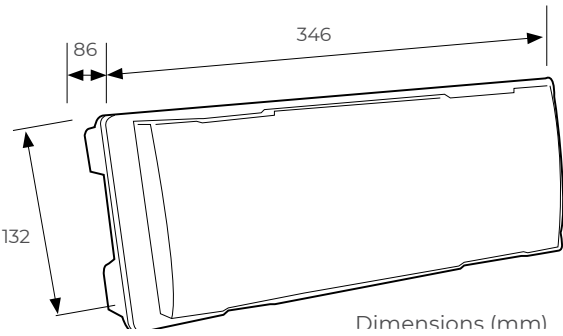
- BULKLITE-DECAL-RU
- BULKLITE-DECAL-RD
- BULKLITE-DECAL-RR
- BULKLITE-DECAL-RL

86 · 346 · 132

Dimensions (mm)

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Robust and Weatherproof LED Circular

The Bunkalite is an IP65 and IK10 luminaire that is ideal for outdoor covered applications such as corridors, stairwells and walkways in schools and apartment blocks. Constructed with a powder-coated steel body and white opal polycarbonate diffuser the Bunkalite Emergency Luminaire provides a decorative solution for both industrial and commercial use.

Market leading lithium battery technology provides lower maintenance costs and LED lamps provide a low standby power rating that will reduce energy costs significantly.

Available in white, black, grey and silver options to suit various environments.

Applications

- Apartments
- Factories
- Schools
- Car Parks
- Public Amenities
- Sports Facilities

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

Features and Benefits

- Tested to BS EN 60598-2-22
- IP65 weatherproof
- IK10 impact rating
- Power coated steel body
- Available in black, white, grey and silver
- Lithium Iron Phosphate battery
- Microwave sensor option
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED | Sustained
Sensor | 3 HRS
Universal Mount | LiFePO₄
IP65
IK10

ORDERING INFORMATION		CLP	CLP W/ MOTION SENSOR	MAINS	MAINS W/ MOTION SENSOR
Standard - White		CBKLEDS-WHT	CBKLEDS-MS-WHT	FBKLED-WHT	FBKLED-MS-WHT
Standard - Black		CBKLEDS-BLK	CBKLEDS-MS-BLK	FBKLED-BLK	FBKLED-MS-BLK
Clevertest Plus System Compatible		Yes	Yes	-	
DALI		CBKLEDS-DALI-WHT	CBKLEDS-MS-DALI-WHT	-	
Zoneworks® XT Hive		CBKLEDS-HVG-WHT	CBKLEDS-MS-HVG-WHT	-	
Carton Quantity		1			
Weight - Single (Carton)		4.5kg			
Dimensions (D x H)		360mm x 145mm			

POWER, LAMPS AND BATTERY	CLP	CLP W/ MOTION SENSOR	MAINS	MAINS W/ MOTION SENSOR
Power Consumption (Standby / Max)	1.2W / 21W	1.5W/22W	16W	17W
Lamp(s)	LED Module 4000K / 50,000hrs			
Total Lumen Output	1945lm		1945lm	
Battery	Lithium Iron Phosphate		-	
Voltage / Capacity (mAh)	3.2V / 6400mAh		-	
Charging Method	Intelligent Current Limited Constant Voltage		-	

TECHNICAL SPECIFICATIONS	CLP	MAINS
Operating Mode	Sustained	Non-Emergency
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Operating Temperature	0˚C to 40˚C	
Ingress Protection Rating (IP)	IP65	
Impact Rating (IK)	IK10	

WALL MOUNTING HEIGHT (M) ESCAPE ROUTE

| 1 LUX SPACING TABLE AND MOUNTING HEIGHTS			
Escape Routes 1 Lux min. along centre line			
Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
CLP	CLP	CLP	CLP
2.1	-	63	-	2.4
2.4	-	6.1	-	2.1
2.7	-	6.0	-	2.2

CEILING MOUNTING HEIGHT (M)

1 LUX SPACING TABLE AND MOUNTING HEIGHTS			
Escape Routes 1 Lux min. along centre line			
Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
CLP	CLP	CLP	CLP
2.7	-	9.1	-	3.6
3	-	9.4	-	3.8
4	-	10.2	-	4.0
5	-	10.6	-	4.1

CEILING MOUNTING HEIGHT (M)

0.5 LUX SPACING TABLE AND MOUNTING HEIGHTS			
Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array			
Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
CLP	CLP	CLP	CLP
2.7	10.0	10.0	3.4	3.4
3	10.5	10.5	3.5	3.5
4	3.4	3.5	3.6	3.8
5	3.4	3.5	3.6	3.8

LUMINAIRE CLASSIFICATION	CLP			
Without Automatic Testing	X	2	AG	180
With Automatic Testing	X	2	AFG	180

145

⌀ 360
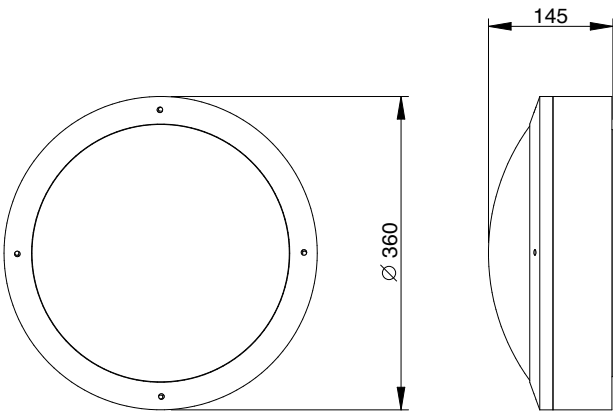
Dimensions (mm)

*Warranty information located at: https://clevertronics.co.uk/product-warranty-statement/

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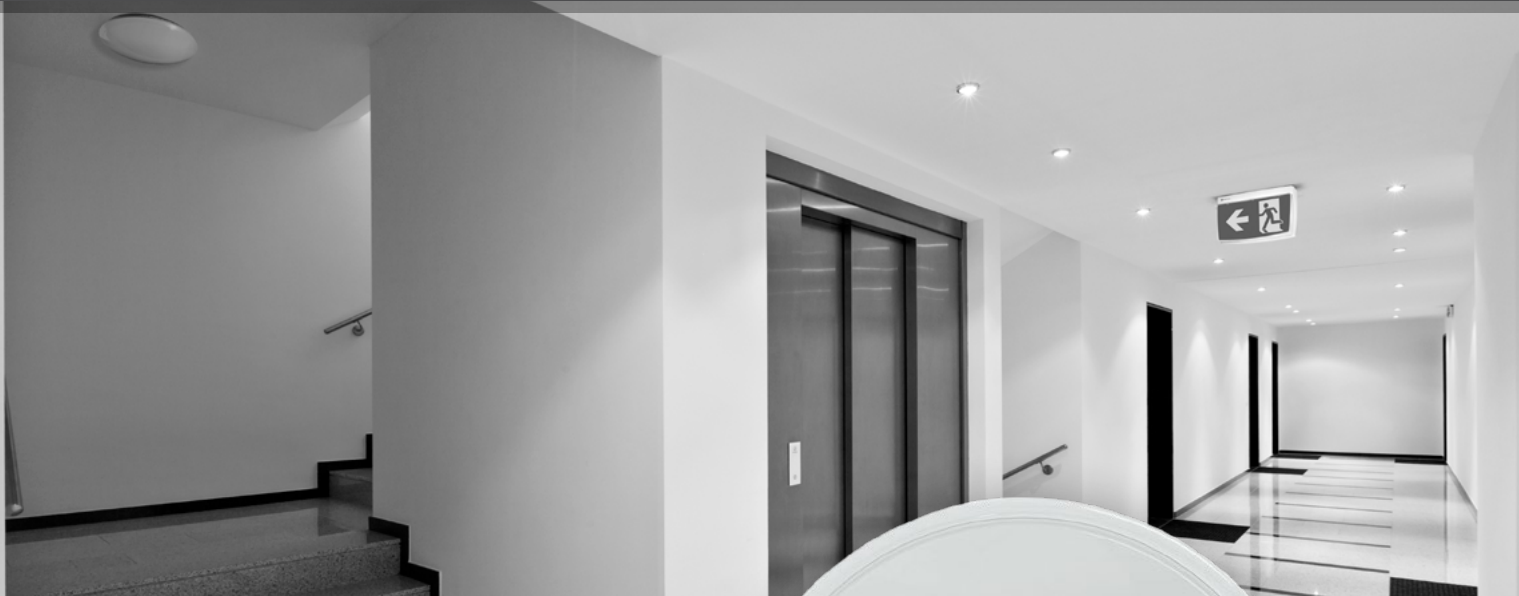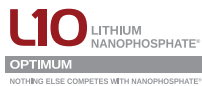
Disc Circular LED Emergency Luminaire

The DISC Circular LED is an IP20, surface mounted round luminaire ideal for stairwells and corridors.

This round luminaire is assembled on a strong white spun metal base with a UV stabilised opal diffuser for smooth illumination, and includes lithium battery technology which ensures significant maintenance savings compared to other alternatives.

Applications

- Office Buildings
- Car Parks
- Public Amenities
- Railway Stations
- Schools
- Sports Facilities

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

- Tested to BS EN 60598-2-22
- Lithium Nanophosphate® battery
- Large terminal block
- DALI® and Zoneworks® test options available
- Clevertest Plus System compatible

LED
3 HRS / 3HRS
Surface Mounted
IP20
Maintained
LiFePO₄

ORDERING INFORMATION		L10	MAINS
TEST OPTIONS / PART #	Standard	LDISC	FDISC
	Carton Quantity	1	
	Clevertest Plus System Compatible	Yes	–
	DALI	LDISC-DALI	–
	Zoneworks® XT Hive	LDISC-HVG	–
Weight - Single		2.7kg	1.9kg
Dimensions (Diameter x H)		425mm x 116mm	

POWER, LAMPS AND BATTERY	L10	MAINS
Power Consumption (Standby / Max)	0.9W / 26.7W	23.6W
Lamp(s) (CCT / Life)	LED Module 4000K / 72,000hrs	
Nominal Lumen Output	3094lm	3094lm
Battery	Lithium Nanophosphate	-
Voltage / Capacity (mAh)	6.6V / 2500mAh	-
Charging Method	Intelligent Current Limited Constant Voltage	-

TECHNICAL SPECIFICATIONS	L10	MAINS
Operating Mode	Maintained	Non-Emergency
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Operating Temperature	0˚C to 40˚C	
Ingress Protection Rating (IP)	IP20	

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

WALL MOUNTING HEIGHT (M)

Wall mounted spacings calculated using a 2.5m wide passageway / 3m high ceiling.

Escape Routes 1 Lux min. along centre line

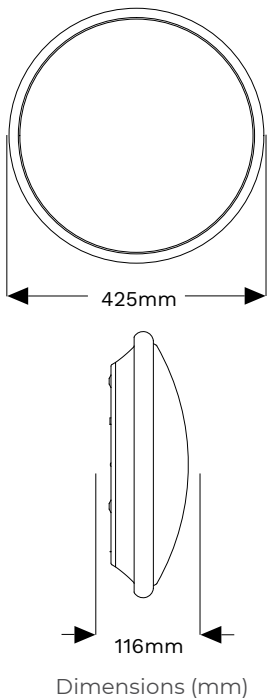|	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	L10	L10	L10	L10
2.1	-	8.7	2.8	-
2.4	-	8.8	2.7	-
2.7	-	9.0	2.5	-

1 LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)

Escape Routes 1 Lux min. along centre line

	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	L10	L10	L10	L10
2.7	-	11.9	-	4.4
3	-	12.5	-	4.4
4	-	13.9	-	5.2
5	-	14.9	-	5.2

0.5LUX SPACING TABLE AND MOUNTING HEIGHTS

CEILING MOUNTING HEIGHT (M)

Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array

	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	L10	L10	L10	L10
2.7	13.0	12.1	3.4	3.8
3	13.8	12.6	3.6	4
4	15.2	14.9	4.3	4.3
5	17	16.2	3.8	4.5

LUMINAIRE CLASSIFICATION	L10			
With Automatic Testing	X	1	AD	180
Without Automatic Testing	X	1	ADF	180

PROTECTION
Battery overvoltage & overcurrent protection
Battery deep discharge protection
Supply voltage polarity reversal protection
Battery short-circuit protection (charging will resume upon removal of fault)

425mm
116mm

Dimensions (mm)

LED
LINEARS

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ARGONAUT PLUS +

High Spec & Efficiency, Switchable Colour & Dual Output

The Argonaut Plus Weatherproof Linear range is designed for high spec applications requiring ultimate efficiency and longer LED lifetime. Featuring switchable colour and dual output, they adapt to your application requirements with the flick of a switch.

Backed by Clevertronics support, service and warranty, the Linear range is available as a Standard or Emergency CLP or L10 Nanophosphate® with monitoring capabilities including Zoneworks XT Hive, DALI and CTP.

Applications

- Car Parks
- Stairwells
- Fire Stairs
- Corridors
- Back of House

Emergency Range

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE®
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE®

Features and Benefits

LED | IK08
Sensor | Sustained
Switchable Output | 3HRS
Variable Power | LiFePO₄
IP65

- Tested to BS EN 60598-2-22
- High efficiency @ 137 lm/W*
- Switchable Colour (3000K / 4000K / 5700K)
- Switchable Output (varies by model)
- IP65
- Long life, energy efficient LED strip module
- Large terminal block for easy installation
- Lithium Iron Phosphate or Nanophosphate battery
- Emergency POD for maximum in-service life and lowest maintenance cost
- Emergency integral battery option also available

*1200mm Standard Linear, varies by model.

ORDERING INFORMATION		EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Nominal Size		600mm ① 600mm ②	600mm ②	600mm ①
Standard		ARGOPLUS-600-LP ARGOPLUS-600-LPPOD	ARGOPLUS-600-L10POD	ARGOPLUS-600
DALI Driver		ARGOPLUS-600-DD-LP ARGOPLUS-600-DD-LPPOD	ARGOPLUS-600-DD-L10POD	ARGOPLUS-600-DD
Motion Sensors		ARGOPLUS-600-SEN-LP ARGOPLUS-600-SEN-LPPOD	ARGOPLUS-600-SEN-L10POD	ARGOPLUS-600-SEN
CTP System Compatible		Yes		-
DALI*		ARGOPLUS-600-LP-DALI ARGOPLUS-600-LPPOD-DALI	ARGOPLUS-600-L10POD-DALI	-
Zoneworks XT Hive*		ARGOPLUS-600-LP-HVG ARGOPLUS-600-LPPOD-HVG	ARGOPLUS-600-L10POD-HVG	-
Carton Quantity		1		
Weight		1.7kg 2.0kg	2.0kg	1.4kg
Dimensions (L X W X H)		655mm x 160mm x 105mm 720mm x 160mm x 105mm	720mm x 160mm x 105mm	655mm x 160mm x 105mm

(TEST OPTIONS / PART #)

* For motion sensors add -SEN to the product code as per following example: ARGOPLUS-600-SEN-LP-DALI

TECHNICAL SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Construction - Base	UV Stabilised Polycarbonate		
Construction - Diffuser	UV Stabilised Polycarbonate		
Voltage (V) (Frequency (Hz))	220-240V (50Hz)		
Lamp ◆	LED Strip Module		
Luminaire CCT	3000K, 4000K, 5700K Switchable		
Lamp Projected Life	Ra>80 Ta40ºc; 157,000hrs (L70/B50), 95,000hrs (L80/B20), 43,000hrs (L90/B10)		
Power Consumption & Light Output	(See Table on Next Page)		
Ingress Protection Rating (IP)	IP65		
Impact Rating (IK)	IK08		

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	EMERGENCY (CLP)		EMERGENCY (L10)
Operating Mode	Sustained		
Battery Configuration	Integral	POD	POD
Battery Type	Lithium Iron Phosphate		Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh	3.2V / 6400mAh	3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage		

LUMINAIRE CLASSIFICATION	EMERGENCY (CLP)				EMERGENCY (L10)			
Without Automatic Testing	X	2	AD	180	X	2	AD	180
With Automatic Testing	X	2	ADF	180	X	2	ADF	180

NO SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On		Main Lamp On
OUTPUT (700mA)	CLP	L10	MAINS
3000K	18.4W		18.0W
4000K DEFAULT	17.8W		17.4W
5700K	18.4W		18.0W

LUMEN OUTPUT		
CLP	L10	MAINS
2192 lm		2192 lm
2351 lm		2351 lm
2304 lm		2304 lm

LUMENS / WATT		
CLP	L10	MAINS
119 lm/W		122 lm/W
132 lm/W		135 lm/W
125 lm/W		128 lm/W

SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On		Main Lamp On
OUTPUT (700mA)	CLP	L10	MAINS
3000K	19.0W		18.6W
4000K DEFAULT	18.3W		17.9W
5700K	19.0W		18.6W

Standby Charge / Main Lamp On @ Min 10%		Main Lamp On @ Min 10%
CLP	L10	MAINS
2.8W		2.4W
2.9W		2.5W
2.8W		2.4W

LUMEN OUTPUT		
CLP	L10	MAINS
2192 lm		2192 lm
2351 lm		2351 lm
2304 lm		2304 lm

LUMENS / WATT		
CLP	L10	MAINS
115 lm/W		118 lm/W
129 lm/W		131 lm/W
121 lm/W		124 lm/W

Product Configuration:

① 600mm No Pod

② 600mm With Pod

655
540
478
410
160
105

1

720
540
478
410
160
105

Dimensions in (mm)

2

ORDERING INFORMATION	EMERGENCY (CLP)		EMERGENCY (L10)	MAINS
Nominal Size	1200mm ①	1200mm ②	1200mm ②	1200mm ①
Standard	ARGOPLUS-1200-LP	ARGOPLUS-1200-LPPOD	ARGOPLUS-1200-L10POD	ARGOPLUS-1200
DALI Driver	ARGOPLUS-1200-DD-LP	ARGOPLUS-1200-DD-LPPOD	ARGOPLUS-1200-DD-L10POD	ARGOPLUS-1200-DD
Motion Sensors	ARGOPLUS-1200-SEN-LP	ARGOPLUS-1200-SEN-LPPOD	ARGOPLUS-1200-SEN-L10POD	ARGOPLUS-1200-SEN
CTP System Compatible		Yes		-
DALI*	ARGOPLUS-1200-LP-DALI	ARGOPLUS-1200-LPPOD-DALI	ARGOPLUS-1200-L10POD-DALI	-
Zoneworks XT Hive*	ARGOPLUS-1200-LP-HVG	ARGOPLUS-1200-LPPOD-HVG	ARGOPLUS-1200-L10POD-HVG	-
Carton Quantity		1		
Weight	2.9kg	3.2kg	3.2kg	2.7kg
Dimensions (L X W X H)	1265mm x 160mm x 105mm	1330mm x 160mm x 105mm	1330mm x 160mm x 105mm	1265mm x 160mm x 105mm

TEST OPTIONS / PART #

* For motion sensors add -SEN to the product code as per following example: ARGOPLUS-1200-SEN-LP-DALI

TECHNICAL SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Construction - Base	UV Stabilised Polycarbonate		
Construction - Diffuser	UV Stabilised Polycarbonate		
Voltage (V) (Frequency (Hz))	220-240V (50Hz)		
Lamp ◆	LED Strip Module		
Luminaire CCT	3000K, 4000K, 5700K Switchable		
Lamp Projected Life	Ra>80 Ta40ºc; 157,000hrs (L70/B50), 95,000hrs (L80/B20), 43,000hrs (L90/B10)		
Power Consumption & Light Output	(See Table on Next Page)		
Ingress Protection Rating (IP)	IP65		
Impact Rating (IK)	IK08		

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	EMERGENCY (CLP)		EMERGENCY (L10)
Operating Mode	Sustained		
Battery Configuration	Integral	POD	POD
Battery Type	Lithium Iron Phosphate		Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh		3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage		

LUMINAIRE CLASSIFICATION	EMERGENCY (CLP)				EMERGENCY (L10)			
Without Automatic Testing	X	2	AD	180	X	2	AD	180
With Automatic Testing	X	2	ADF	180	X	2	ADF	180

NO SENSOR

POWER CONSUMPTION – DEFAULT	Standby Charge/ Main Lamp On		Main Lamp On	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT 2 (650mA)	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
3000K	33.7W		33.3W	4145 lm		4145 lm	123 lm/W		125 lm/W
4000K DEFAULT	32.6W		32.2W	4420 lm		4420 lm	136 lm/W		137 lm/W
5700K	33.6W		33.2W	4322 lm		4322 lm	129 lm/W		130 lm/W
OUTPUT 1 (350mA)									
3000K	19.2W		18.8W	2432 lm		2432 lm	127 lm/W		129 lm/W
4000K DEFAULT	18.8W		18.4W	2549 lm		2549 lm	136 lm/W		139 lm/W
5700K	19.1W		18.7W	2533 lm		2533 lm	133 lm/W		136 lm/W

SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On		Main Lamp On	Standby Charge / Main Lamp On @ Min 10%		Main Lamp On @ Min 10%	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT (650mA)	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
3000K	34.3W		33.9W	7.5W		4.8W	4145 lm		4145 lm	121 lm/W		122 lm/W
4000K DEFAULT	33.2W		32.8W	4.9W		4.5W	4420 lm		4420 lm	133 lm/W		135 lm/W
5700K	34.1W		33.7W	5.1W		4.7W	4322 lm		4322 lm	127 lm/W		128 lm/W

Product Configuration:

① 1200mm No Pod

② 1200mm With Pod

1265
1080
1020
906

160
105

1

1330
1080
1020
906

160
105

Dimensions in (mm)

2

The product details described in this document are current as at the version date of the document. We reserve the right to change product design, specifications or materials (Specifications) as part of our continuous improvement program. Please confirm the applicable Specifications at the time of placing your order.

ORDERING INFORMATION		EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Nominal Size	1500mm ①	1500mm ②	1500mm ②	1500mm ①
Standard	ARGOPLUS-1500-LP	ARGOPLUS-1500-LPPOD	ARGOPLUS-1500-L10POD	ARGOPLUS-1500
DALI Driver	ARGOPLUS-1500-DD-LP	ARGOPLUS-1500-DD-LPPOD	ARGOPLUS-1500-DD-L10POD	ARGOPLUS-1500-DD
Motion Sensors	ARGOPLUS-1500-SEN-LP	ARGOPLUS-1500-SEN-LPPOD	ARGOPLUS-1500-SEN-L10POD	ARGOPLUS-1500-SEN
CTP System Compatible		Yes		-
DALI*	ARGOPLUS-1500-LP-DALI	ARGOPLUS-1500-LPPOD-DALI	ARGOPLUS-1500-L10POD-DALI	-
Zoneworks XT Hive*	ARGOPLUS-1500-LP-HVG	ARGOPLUS-1500-LPPOD-HVG	ARGOPLUS-1500-L10POD-HVG	-
Carton Quantity		1		
Weight	3.6kg	3.9kg	3.9kg	3.3kg
Dimensions (L X W X H)	1565mm x 160mm x 105mm	1630mm x 160mm x 105mm	1630mm x 160mm x 105mm	1565mm x 160mm x 105mm

(left side vertical label: TEST OPTIONS / PART #)

* For motion sensors add -SEN to the product code as per following example: ARGOPLUS-1500-SEN-LP-DALI

TECHNICAL SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Construction - Base		UV Stabilised Polycarbonate	
Construction - Diffuser		UV Stabilised Polycarbonate	
Voltage (V) (Frequency (Hz))		220-240V (50Hz)	
Lamp ◆		LED Strip Module	
Luminaire CCT		3000K, 4000K, 5700K Switchable	
Lamp Projected Life		Ra>80 Ta40°c; 157,000hrs (L70/B50), 95,000hrs (L80/B20), 43,000hrs (L90/B10)	
Power Consumption & Light Output		(See Table on Next Page)	
Ingress Protection Rating (IP)		IP65	
Impact Rating (IK)		IK08	

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	EMERGENCY (CLP)		EMERGENCY (L10)
Operating Mode		Sustained	
Battery Configuration	Integral	POD	POD
Battery Type	Lithium Iron Phosphate		Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh		3.3V / 5000mAh
Charging Method		Intelligent Current Limited Constant Voltage	

LUMINAIRE CLASSIFICATION	EMERGENCY (CLP)				EMERGENCY (L10)			
Without Automatic Testing	X	2	AD	180	X	2	AD	180
With Automatic Testing	X	2	ADF	180	X	2	ADF	180

NO SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On	Main Lamp On	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT (950mA)	CLP / L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
3000K	49.3W	48.9W	5877 lm	5877 lm		119 lm/W		120 lm/W
4000K DEFAULT	47.5W	47.1W	6337 lm	6337 lm		133 lm/W		135 lm/W
5700K	49.2W	48.8W	6185 lm	6185 lm		126 lm/W		127 lm/W

SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On	Main Lamp On	Standby Charge / Main Lamp On @ Min 10%	Main Lamp On @ Min 10%	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT (950mA)	CLP / L10	MAINS	CLP / L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
3000K	48.3W	47.9 W	7.1W	6.7W	5877 lm	5877 lm		122 lm/W		123 lm/W
4000K DEFAULT	46.7W	46.3W	7.0W	6.6W	6337 lm	6337 lm		136 lm/W		137 lm/W
5700K	48.1W	47.7W	7.1W	6.7W	6185 lm	6185 lm		129 lm/W		130 lm/W

Product Configuration:
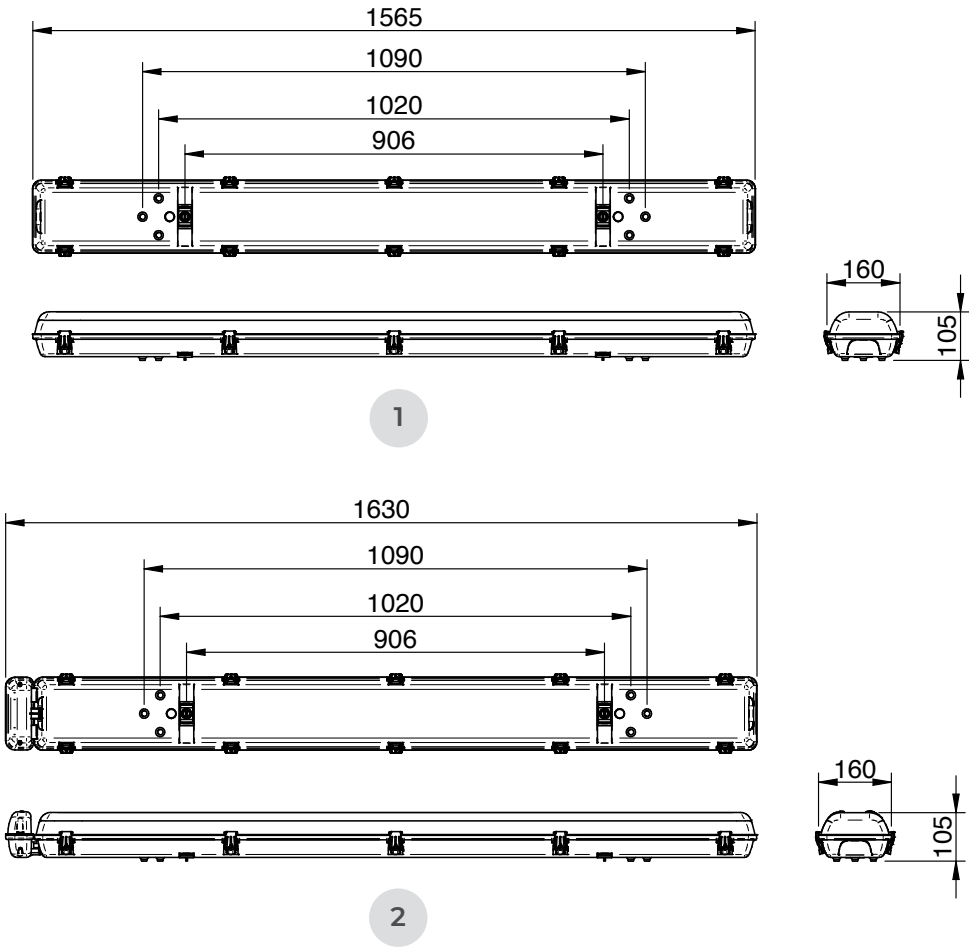
① 1500mm No Pod

② 1500mm With Pod

1565
1090
1020
906

160
105

1

1630
1090
1020
906

160
105

2

Dimensions in (mm)

ARGONAUT PRO

Ultimate Spec & Efficiency, Configurable Quad Output*

The Argonaut Pro Weatherproof Linear range is designed to maximise LED efficiency with the highest product performance and LED lifetime. Featuring configurable quad output, they maximise efficiency by delivering up to 152lm/W.

Backed by Clevertronics support, service and warranty, the Linear range is available as a Standard or Emergency CLP or L10 Nanophosphate with monitoring capabilities including Zoneworks XT Hive, DALI and CTP.

Applications

🚗 Car Parks

🪜 Stairwells

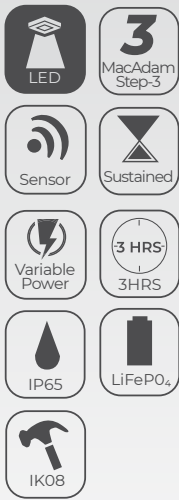🔥 Fire Stairs

🪜 Corridors

🏢 Back of House

Emergency Range

CLP LITHIUM IRON PHOSPHATE
PREMIUM
PROVEN PROJECT PERFORMANCE

L10 LITHIUM NANOPHOSPHATE*
OPTIMUM
NOTHING ELSE COMPETES WITH NANOPHOSPHATE*

*1200mm Standard Linear, varies by model.

Features and Benefits

LED | 3 MacAdam Step-3

Sensor | Sustained

Variable Power | 3 HRS 3HRS

IP65 | LiFePO₄

IK08

- Tested to BS EN 60598-2-22
- Configurable quad output (varies by model)
- IP65
- Long life, energy efficient LED strip module
- Large terminal block for easy installation
- Lithium Iron Phosphate or Nanophosphate battery
- Emergency POD for maximum in-service life and lowest maintenance cost
- Emergency integral battery option also available
- Efficacy options of 137lm/W → 152lm/W

ORDERING INFORMATION	EMERGENCY (CLP)	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Nominal Size	600mm ①	600mm ②	600mm ②	600mm ①
Standard	ARGOPRO-600-LP	ARGOPRO-600-LPPOD	ARGOPRO-600-L10POD	ARGOPRO-600
DALI Driver	ARGOPRO-600-DD-LP	ARGOPRO-600-DD-LPPOD	ARGOPRO-600-DD-L10POD	ARGOPRO-600-DD
Motion Sensors	ARGOPRO-600-SEN-LP	ARGOPRO-600-SEN-LPPOD	ARGOPRO-600-SEN-L10POD	ARGOPRO-600-SEN
CTP System Compatible	Yes	Yes	Yes	-
DALI*	ARGOPRO-600-LP-DALI	ARGOPRO-600-LPPOD-DALI	ARGOPRO-600-L10POD-DALI	-
Zoneworks XT Hive*	ARGOPRO-600-LP-HVG	ARGOPRO-600-LPPOD-HVG	ARGOPRO-600-L10POD-HVG	-
Carton Quantity	1	1	1	1
Weight	1.7kg	2.0kg	2.0kg	1.4kg
Dimensions (L X W X H)	655mm x 160mm x 105mm	720mm x 160mm x 105mm	720mm x 160mm x 105mm	655mm x 160mm x 105mm

(Left-margin label: TEST OPTIONS / PART#)

* For motion sensors add -SEN to the product code as per following example: ARGOPRO-600-SEN-LP-DALI

TECHNICAL SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Construction - Base	UV Stabilised Polycarbonate		
Construction - Diffuser	UV Stabilised Polycarbonate		
Voltage (V) (Frequency (Hz))	220-240V (50Hz)		
Lamp ◆	LED Strip Module		
Luminaire CCT	4000K		
Lamp Projected Life	Ra>80 Ta40⁰c; 184,000hrs (L70/B50), 100,000hrs (L80/B20), 43,000hrs (L90/B10)		
Power Consumption & Light Output	(See Table on Next Page)		
Ingress Protection Rating (IP)	IP65		
Impact Rating (IK)	IK08		

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (CLP)	EMERGENCY (L10)
Operating Mode	Sustained		
Battery Configuration	Integral	POD	POD
Battery Type	Lithium Iron Phosphate		Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh		3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage		

LUMINAIRE CLASSIFICATION	EMERGENCY (CLP)				EMERGENCY (L10)			
Without Automatic Testing	X	2	AD	180	X	2	AD	180
With Automatic Testing	X	2	ADF	180	X	2	ADF	180

NO SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On	Main Lamp On	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS

OUTPUT	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
Output (700mA)	18.7W	18.3W		2564 lm	2564 lm		137 lm/W	140 lm/W	

SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On	Main Lamp On	Standby Charge / Main Lamp On @ Min 10%	Main Lamp On @ Min 10%	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS

OUTPUT	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
Output (700mA)	18.4W	18.0W		2.9W	2.5W		2564 lm	2564 lm		139 lm/W	142 lm/W	

Product Configuration:

① 600mm No Pod

② 600mm With Pod

655
540
478
410
160
105

1

720
540
478
410
160
105

2

Dimensions in (mm)

ORDERING INFORMATION

ORDERING INFORMATION	EMERGENCY (CLP)	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Nominal Size	1200mm ①	1200mm ②	1200mm ②	1200mm ①
Standard	ARGOPRO-1200-LP	ARGOPRO-1200-LPPOD	ARGOPRO-1200-L10POD	ARGOPRO-1200
DALI Driver	ARGOPRO-1200-DD-LP	ARGOPRO-1200-DD-LPPOD	ARGOPRO-1200-DD-L10POD	ARGOPRO-1200-DD
Motion Sensors	ARGOPRO-1200-SEN-LP	ARGOPRO-1200-SEN-LPPOD	ARGOPRO-1200-SEN-L10POD	ARGOPRO-1200-SEN
CTP System Compatible	Yes	Yes	Yes	-
DALI*	ARGOPRO-1200-LP-DALI	ARGOPRO-1200-LPPOD-DALI	ARGOPRO-1200-L10POD-DALI	-
Zoneworks XT Hive*	ARGOPRO-1200-LP-HVG	ARGOPRO-1200-LPPOD-HVG	ARGOPRO-1200-L10POD-HVG	-
Carton Quantity	1	1	1	1
Weight	2.9kg	3.2kg	3.2kg	2.7kg
Dimensions (L X W X H)	1265mm x 160mm x 105mm	1330mm x 160mm x 105mm	1330mm x 160mm x 105mm	1265mm x 160mm x 105mm

(Left margin label: TEST OPTIONS / PART#)

* For motion sensors add -SEN to the product code as per following example: ARGOPRO-1200-SEN-LP-DALI

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Construction - Base	UV Stabilised Polycarbonate		
Construction - Diffuser	UV Stabilised Polycarbonate		
Voltage (V) (Frequency (Hz))	220-240V (50Hz)		
Lamp ◆	LED Strip Module		
Luminaire CCT	4000K		
Lamp Projected Life	Ra>80 Ta40°c; 184,000hrs (L70/B50), 100,000hrs (L80/B20), 43,000hrs (L90/B10)		
Power Consumption & Light Output	(See Table on Next Page)		
Ingress Protection Rating (IP)	IP65		
Impact Rating (IK)	IK08		

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS

EMERGENCY SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (CLP)	EMERGENCY (L10)
Operating Mode	Sustained		
Battery Configuration	Integral	POD	POD
Battery Type	Lithium Iron Phosphate		Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh		3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage		

LUMINAIRE CLASSIFICATION

LUMINAIRE CLASSIFICATION	EMERGENCY (CLP)				EMERGENCY (L10)			
Without Automatic Testing	X	2	AD	180	X	2	AD	180
With Automatic Testing	X	2	ADF	180	X	2	ADF	180

NO SENSOR

POWER CONSUMPTION

OUTPUT	Standby Charge/ Main Lamp On	Main Lamp On
	CLP	L10	MAINS
Output 4 (900mA)	42.5W		42.1W
Output 3 (750mA)	37.0W		36.6W
Output 2 (650mA) DEFAULT	31.1W		30.7W
Output 1 (500mA)	24.0W		23.6W

LUMEN OUTPUT

	CLP	L10	MAINS
Output 4	6259 lm	6259 lm	
Output 3	5495 lm	5495 lm	
Output 2	4660 lm	4660 lm	
Output 1	3541 lm	3541 lm	

LUMENS / WATT

	CLP	L10	MAINS
Output 4	147 lm/W		149 lm/W
Output 3	149 lm/W		150 lm/W
Output 2	150 lm/W		152 lm/W
Output 1	148 lm/W		150 lm/W

SENSOR

POWER CONSUMPTION

OUTPUT	Standby Charge/ Main Lamp On		Main Lamp On	Standby Charge / Main Lamp On @ Min 10%		Main Lamp On @ Min 10%
	CLP	L10	MAINS	CLP	L10	MAINS
Output 4 (900mA)	43.1W		42.7W	5.7W		5.3W
Output 3 (750mA)	36.7W		36.3W	5.1W		4.7W
Output 2 (650mA) DEFAULT	31.3W		30.9W	4.4W		4.0W
Output 1 (500mA)	24.5W		24.1W	3.6W		3.2W

LUMEN OUTPUT

	CLP	L10	MAINS
Output 4	6259 lm	6259 lm	
Output 3	5495 lm	5495 lm	
Output 2	4660 lm	4660 lm	
Output 1	3541 lm	3541 lm	

LUMENS / WATT

	CLP	L10	MAINS
Output 4	145 lm/W		147 lm/W
Output 3	150 lm/W		151 lm/W
Output 2	149 lm/W		151 lm/W
Output 1	146 lm/W		147 lm/W

Product Configuration:

① 1200mm No Pod

② 1200mm With Pod

1 — 1265 / 1080 / 1020 / 906 / 160 / 105

2 — 1330 / 1080 / 1020 / 906 / 160 / 105

Dimensions in (mm)

ORDERING INFORMATION	EMERGENCY (CLP)		EMERGENCY (L10)	MAINS
Nominal Size	1500mm ①	1500mm ②	1500mm ②	1500mm ①
Standard	ARGOPRO-1500-LP	ARGOPRO-1500-LPPOD	ARGOPRO-1500-L10POD	ARGOPRO-1500
DALI Driver	ARGOPRO-1500-DD-LP	ARGOPRO-1500-DD-LPPOD	ARGOPRO-1500-DD-L10POD	ARGOPRO-1500-DD
Motion Sensors	ARGOPRO-1500-SEN-LP	ARGOPRO-1500-SEN-LPPOD	ARGOPRO-1500-SEN-L10POD	ARGOPRO-1500-SEN
CTP System Compatible	Yes			-
DALI*	ARGOPRO-1500-LP-DALI	ARGOPRO-1500-LPPOD-DALI	ARGOPRO-1500-L10POD-DALI	-
Zoneworks XT Hive*	ARGOPRO-1500-LP-HVG	ARGOPRO-1500-LPPOD-HVG	ARGOPRO-1500-L10POD-HVG	-
Carton Quantity	1			
Weight	3.6kg	3.9kg	3.9kg	3.3kg
Dimensions (L X W X H)	1565mm x 160mm x 105mm	1630mm x 160mm x 105mm	1630mm x 160mm x 105mm	1565mm x 160mm x 105mm

TEST OPTIONS / PART#

* For motion sensors add -SEN to the product code as per following example: ARGOPRO-1500-SEN-LP-DALI

TECHNICAL SPECIFICATIONS	EMERGENCY (CLP)	EMERGENCY (L10)	MAINS
Construction - Base	UV Stabilised Polycarbonate		
Construction - Diffuser	UV Stabilised Polycarbonate		
Voltage (V) (Frequency (Hz))	220-240V (50Hz)		
Lamp ◆	LED Strip Module		
Luminaire CCT	4000K		
Lamp Projected Life	Ra>80 Ta40°C; 184,000hrs (L70/B50), 100,000hrs (L80/B20), 43,000hrs (L90/B10)		
Power Consumption & Light Output	(See Table on Next Page)		
Ingress Protection Rating (IP)	IP65		
Impact Rating (IK)	IK08		

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	EMERGENCY (CLP)		EMERGENCY (L10)
Operating Mode	Sustained		
Battery Configuration	Integral	POD	POD
Battery Type	Lithium Iron Phosphate		Lithium Nanophosphate®
Voltage (V) / Capacity (mAh)	3.2V / 6400mAh		3.3V / 5000mAh
Charging Method	Intelligent Current Limited Constant Voltage		

LUMINAIRE CLASSIFICATION	EMERGENCY (CLP)				EMERGENCY (L10)			
Without Automatic Testing	X	2	AD	180	X	2	AD	180
With Automatic Testing	X	2	ADF	180	X	2	ADF	180

NO SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On	Main Lamp On	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT	CLP	L10	MAINS	CLP	L10	MAINS	CLP / L10	MAINS
Output 2 (1200mA) DEFAULT	59.1W	58.1W	8498 lm		8498 lm	144 lm/W		146 lm/W
Output 1 (900mA)	44.1W	42.8W	6385 lm		6385 lm	145 lm/W		149 lm/W

SENSOR

POWER CONSUMPTION	Standby Charge/ Main Lamp On	Main Lamp On	Standby Charge / Main Lamp On @ Min 10%	Main Lamp On @ Min 10%	LUMEN OUTPUT			LUMENS / WATT		
OUTPUT	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS	CLP	L10	MAINS
Output 2 (1200mA) DEFAULT	58.5W	58.1W	9.7W	7.0W	8498 lm	8498 lm	145 lm/W	146 lm/W
Output 1 (900mA)	43.1W	42.7W	8.0W	5.3W	6385 lm	6385 lm	148 lm/W	150 lm/W

Product Configuration:
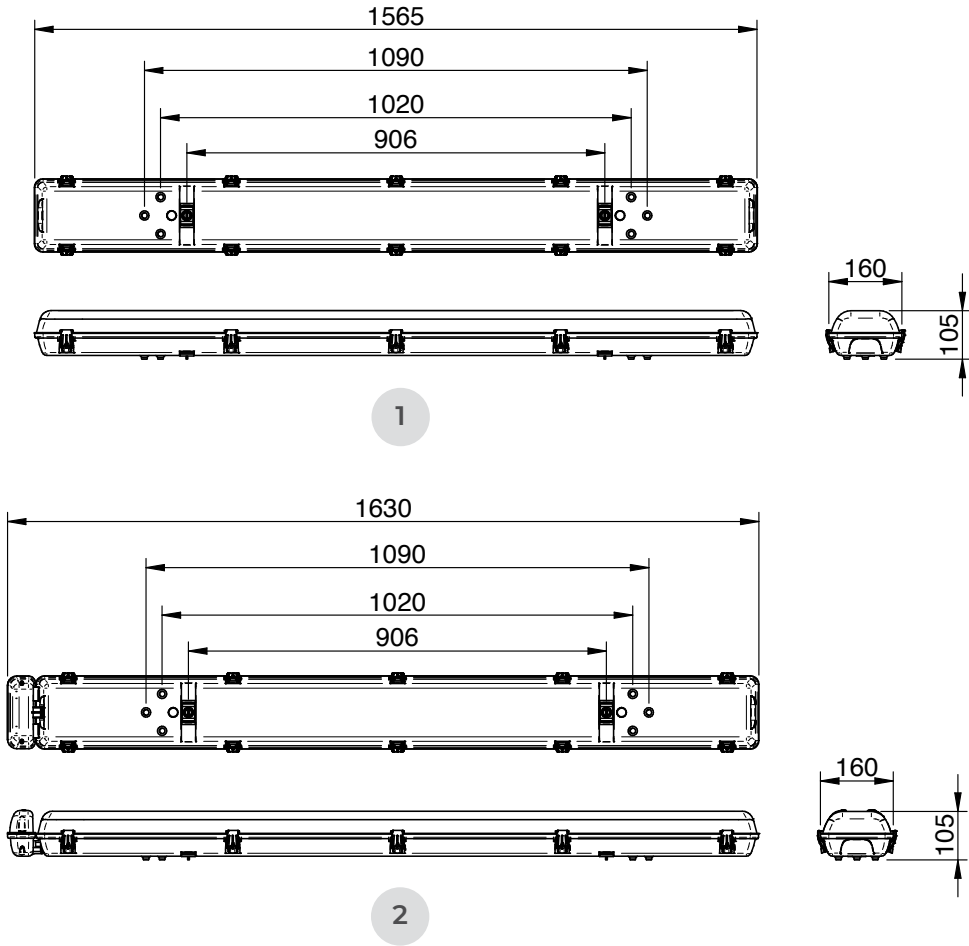
① 1500mm No Pod

② 1500mm With Pod

1

2

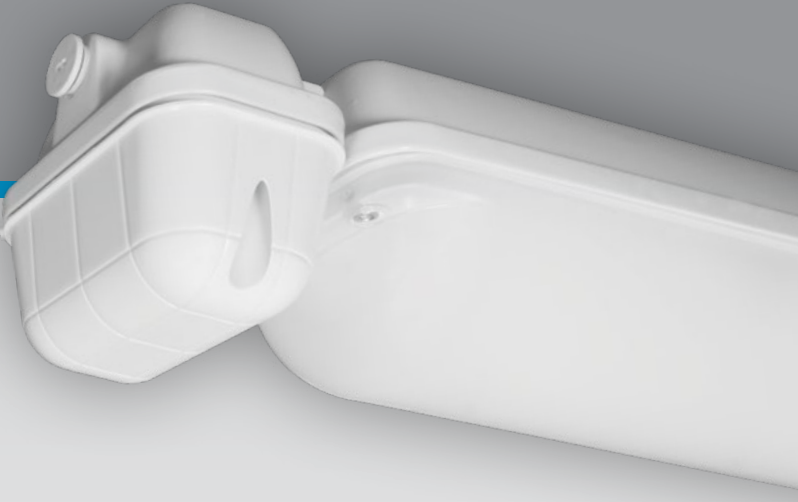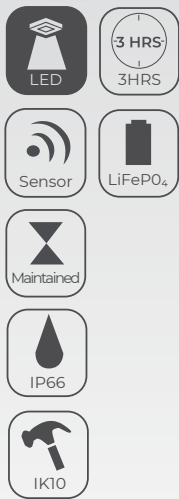Dimensions in (mm)

High Level Impact Protection

The Argonaut Vandal Resistant Linear range provides a wide selection of emergency Linears for vandal resistant applications where higher level of impact protection is required.

Available in L10 Nanophosphate® with all emergency test options including Zoneworks® XT Hive, DALI and CTP System.
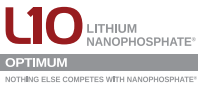
Applications

- Public Amenities
- Schools
- Stadiums
- Railway Stations
- Car Parks
- Correction Facilities

Features and Benefits

- Tested to BS EN 60598-2-22
- LED lamps
- Lithium Nanophosphate® battery
- IK10
- IP66
- Die cast low copper aluminium body
- Zoneworks® XT Hive or DALI test options
- Clevertest Plus System compatible

ORDERING INFORMATION		L10	MAINS
Nominal Size		600mm	600mm
	Standard	LVP2LEDM-P	FVP2LED-P
	DALI Driver	LVP2LEDM-P-DD	FVP2LED-P-DD
	CTP System Compatible	Yes	-
	Motion Sensors ■	Yes (High/Low) + ON / OFF	
	DALI	LVP2LEDM-P-DALI	-
	Zoneworks® XT Hive	LVP2LEDM-P-HVG	-
Carton Quantity		4	
Weight - Single (Carton)		3.2kg	2.4kg
Dimensions (L x W x H)		790mm x 140mm x 120mm	700mm x 140mm x 120mm

■ For Motion sensor version add -MS -HL to the product code as per the following example. LVP2LEDM-P-MS-HL

TECHNICAL SPECIFICATIONS	L10	MAINS
Construction - Base	Pressure Die-Cast, Low Copper Aluminium Alloy Body with Powder Coat Paint Finish	
Construction - Diffuser	Opal Impact Resistant Polycarbonate with Secure Access Screws (LSZH)	
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Power Consumption ◆ (Standby / Max)	1.3W / 27W	22W
Nominal Total Light Output ◆	2529lm	
Lamp	LED Strip Module	
Lamp CCT & Life ◆	4000K, 100,000 hrs (L80,B20, Ra>80, Ta40c)	
Operating Temperature	0˚C to 40˚C	
Ingress Protection Rating (IP)	IP66	
IK Rating	IK10	

◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	L10	MAINS
Operating Mode	Maintained	-
Battery Configuration	Pod	-
Battery Type	Lithium Nanophosphate®	-
Voltage / Capacity (mAh)	6.6V / 2500mAh	-
Charging Method	Intelligent Current Limited Constant Voltage	-

LUMINAIRE CLASSIFICATION	L10			
Without Automatic Testing	X	1	AG	180
With Automatic Testing	X	1	AFG	180

ORDERING INFORMATION		L10	MAINS
Nominal Size		1200mm	1200mm
TEST OPTIONS / PART #	Standard	LVP4LEDM-P	FVP4LED-P
	DALI Driver	LVP4LEDM-P-DD	FVP4LED-P-DD
	CTP System Compatible	Yes	-
	Motion Sensors ■	Yes (High/Low) + ON / OFF	
	DALI	LVP4LEDM-P-DALI	-
	Zoneworks® XT Hive	LVP4LEDM-P-HVG	-
Carton Quantity		4	
Weight - Single (Carton)		5.2kg	4.1kg
Dimensions (L x W x H)		1400mm x 140mm x 120mm	1320mm x 140mm x 120mm

■ For Motion sensor version add -MS -HL to the product code as per the following example. LVP4LEDM-P-MS-HL

TECHNICAL SPECIFICATIONS	L10	MAINS
Construction - Base	Pressure Die-Cast, Low Copper Aluminium Alloy Body with Powder Coat Paint Finish	
Construction - Diffuser	Opal Impact Resistant Polycarbonate with Secure Access Screws (LSZH)	
Voltage (V) (Frequency (Hz))	220-240V (50Hz)	
Power Consumption ◆ (Standby / Max)	1.0W / 48.5W	46W
Nominal Total Light Output ◆	5550lm	
Lamp	LED Strip Module	
Lamp CCT & Life ◆	4000K, 100,000 hrs (L80,B20, Ra>80, Ta40c)	
Operating Temperature	0˚C to 40˚C	
Ingress Protection Rating (IP)	IP66	
IK Rating	IK10	

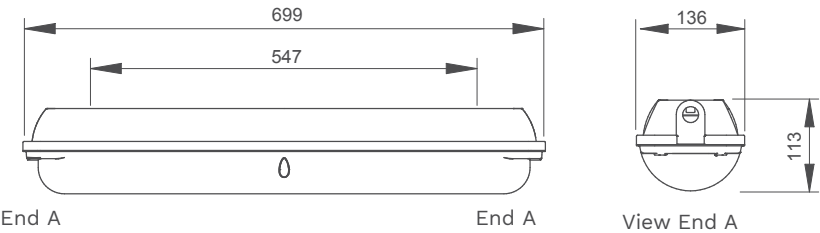◆ Please refer to the specific product data sheet for actual power, light output, lamp lifetime and driver values.

EMERGENCY SPECIFICATIONS	L10	MAINS
Operating Mode	Maintained	-
Battery Configuration	Pod	-
Battery Type	Lithium Nanophosphate®	-
Voltage / Capacity (mAh)	6.6V / 2500mAh	-
Charging Method	Intelligent Current Limited Constant Voltage	-

LUMINAIRE CLASSIFICATION	L10			
Without Automatic Testing	X	1	AG	180
With Automatic Testing	X	1	AFG	180

CEILING MOUNTING HEIGHT (M)	LVP4LEDM-P				LVP4LEDM-P			
	1 LUX SPACING TABLE AND MOUNTING HEIGHTS				0.5LUX SPACING TABLE AND MOUNTING HEIGHTS			
	Escape Routes 1 Lux min. along centre line				Open (Anti-panic) Areas 0.5 Lux min. within core area Luminaires arranged in a regular array			
	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall	Axial Spacing	Transverse Spacing	Axial to Wall	Transverse to Wall
	L10	L10	L10	L10	L10	L10	L10	L10
2.7	12.3	-	4.2	-	13.0	12.0	3.5	4.0
3	13.0	-	4.5	-	13.0	13.0	3.5	3.5
4	14.0	-	4.5	-	14.0	14.0	5.0	5.0
5	14.7	-	4.8	-	16.0	16.0	4.0	3.5

600mm/2ft no pod

699
547
136
113
End A   End A   View End A

600mm/2ft with battery pod

791
547
136   136
113   113
End A   End B   View End A   View End B

1200mm/4ft no pod

1307
807
136
113
End A   End A   View End A
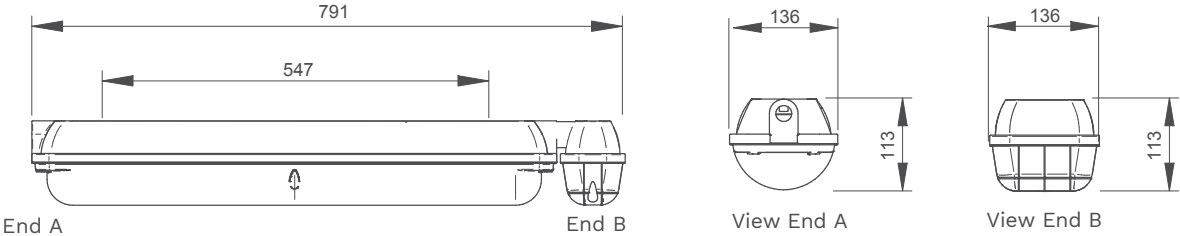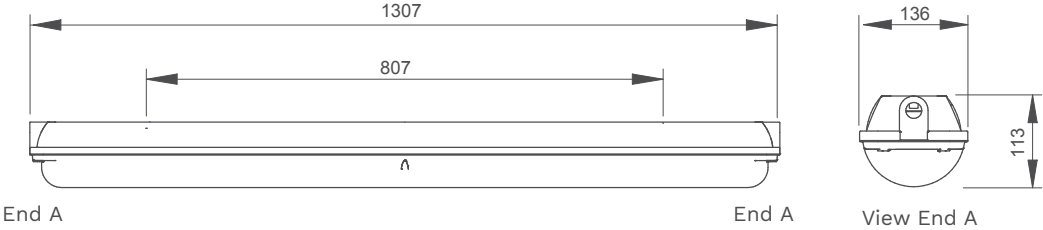
1200mm/4ft with battery pod
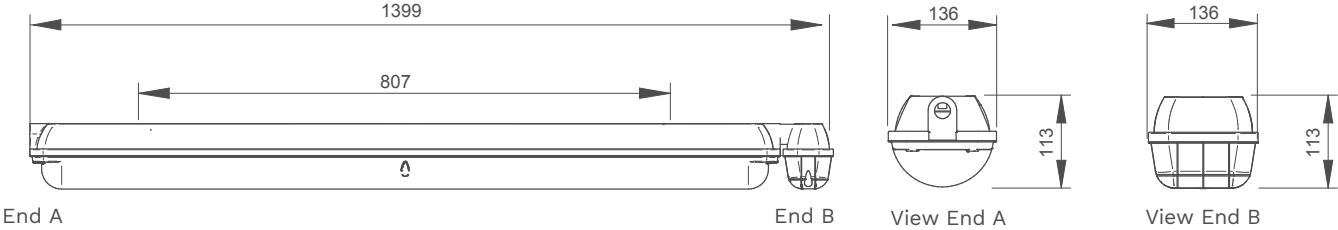
1399
807
136   136
113   113
End A   End B   View End A   View End B

Emergency Lighting Modes of Operation

The following table outlines the different modes that exit and emergency lighting fittings can operate in. Contact us if you would like some assistance in selecting the right mode for your application.

Emergency Operating Modes

Maintained
An emergency luminaire in which the lamp is energised at all times. The lamp is ON when there is power present and is ON during a power failure.
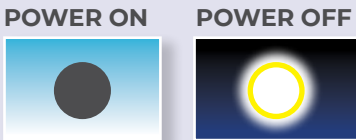
EXAMPLES: Exit signs. Single lamp fluoro battens used in plant rooms to function as both general lighting and the emergency lighting.

POWER ON   POWER OFF
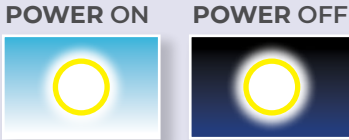
Non-Maintained
An emergency luminaire in which the lamp(s) are only in operation during a power fail.

EXAMPLE: Single lamp: Lifelight emergency luminaires.

POWER ON   POWER OFF

EXAMPLE: Twin lamp: Supalite floods, often used in factory units and only operate in the event of a power fail.

POWER ON   POWER OFF

Sustained
An emergency luminaire typically containing two lamps, one of which is in operation while there is power present, and the other "non-maintained" lamp only energised during a power fail. Also known as Combined Non-Maintained.

POWER ON   POWER OFF

EXAMPLE 1: LED TUBE or LED strip batten with separate dedicated LED emergency pod.

EXAMPLE 2: LED Strip batten with dedicated separate internal LED`s with emergency battery back up.

Chemical Resistance Table

Construction Materials	Body	Diffuser
Argonaut PLUS & PRO	PC	PC
Argonaut PRO CHEM (Special Order)	GRP	PC or Acrylic

🟢 Resistant
🟨 Semi-resistant
❌ Not resistant

Ambient temperature at 20°C

Chemical Specifics	Polycarbonate (PC)	Acrylic (PMMA)	Glass Fibre Reinforced Plastic (GRP)
Accumulator acid	🟨		
Acetic acid <15%	🟢	🟢	🟢
Alcohol <30%	🟢	🟢	🟢
Alcohol concentrate	🟢	❌	❌
Ammonia <25%	🟨	🟢	🟨
Aromatic hydrocarbons	🟨	🟢	🟨
Benzene	❌	❌	🟨
Carbon dioxide	🟢	🟢	🟢
Carbon monoxide	🟢	🟢	🟢
Carbon tetrachloride	🟢	🟨	🟨
Caustic soda <2%	❌	🟢	🟨
Common salt (Sodium chloride)	🟨	🟢	🟢
Cooking oil (Animal fat – but not pork)	❌	🟢	🟢
Cooking oil (Cold)	🟢	🟢	🟢
Cooking oil (Hot)	❌	🟢	🟢
Cooking oil (Pork fat)	❌	🟢	🟢
Cooking oil (Vegetable)	❌	🟢	🟢
Crude oil	🟨	🟢	🟢
Diesel oil	🟨	🟢	🟢
Ethyl Acetate	🟢	❌	❌
Glycerine	🟨	🟢	🟢
Glycol	🟢	🟢	🟢
Hydrocarbons	🟨	🟨	🟨
Hydrochloric acid <10%	🟢	🟢	🟢
Hydrogen peroxide <40%	🟨	🟢	❌
Hydrogen sulphide	🟢	🟢	🟢
Kerosene/paraffin oil	❌	🟢	🟢
Ketones	🟢	❌	❌
Methanol	🟢	❌	❌
Milk of lime (Limewater)	🟨	🟢	🟢
Nitric acid <5%	🟢	🟢	🟢
Nitric acid <30%	🟨	🟨	🟨
Oil (Hydraulic)	❌	🟢	🟢
Oil (Lubricating)	❌	🟢	🟢
Oil based paint	❌	🟢	🟢
Petrol	🟢	🟢	🟢
Pyridine	🟢	❌	❌
Sea water	🟢	🟢	🟢
Soap suds	🟨	🟢	🟢
Soda	🟢	🟢	🟢
Sulphuric acid <30%	🟢	🟢	🟢
Sulphuric acid concentrate	❌	❌	🟨
Sulphurous acid <5%	❌	🟢	🟨
Synthetic detergent	🟢	🟢	🟢
Turpentine	🟢	🟢	🟢

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