



# *S13.5*

*Solutions 13.5*



### 2009

First patented product (iCage - Fire Rated Technology)



### 1994

Release of first catalogue



### 2006

First Supplier of the Year Industry Award. Recognising product quality and customer service

### 2009

Ansell major expansion of Lighting Design department



### 1992

Ansell Lighting brand established in Belfast by Ansell Sales & Distribution for the Northern Ireland electrical wholesale market

### 2001

First Warrington trading month £74,850 (August 2001)

### 1992

First trading month £70 (August 1992)

### 2004

First LED product released (AWO/9LED/BLU)



### 2006

First £1,000,000 trading month (October 2006)

### 2010

Ansell Lighting established in Dongguan City, Southern China

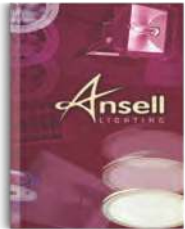


### 2001

Ansell Electrical Products established in Warrington, Cheshire for the electrical wholesale market throughout England, Scotland and Wales

### 2009

Ansell Electrical Products re-located to Stonecross Industrial Park, Golborne, Warrington to support continued expansion.



A horizontal timeline with a central dotted line. Events are listed above and below the line, connected by vertical dotted lines. Each event includes a year, a description, and a logo or image.

- 2012**: Became accredited member of the LIA.
- 2013**: First AC LED Fire-Rated downlight designed.
- 2014**: Award winning orbio360.
- 2014**: ENDO Lighting Corp purchases Ansell Lighting.
- 2016**: Panel Pod voted best new product and marketing campaign.
- 2017**: Ansell Lighting celebrate 25 years of trading.
- 2018**: OCTO Connected Range Launched.
- 2019**: Solutions 12.5 launched.
- 2019**: Best New Product OCTO and Best Overall Supplier.
- 2019**: Ansell launch Green Team Initiative.
- 2019**: Ansell Spain established.
- 2019**: Became an LIAQA assured company.
- 2019**: Solutions 13 launched.



# Ansell History



# ENDO

## LIGHTING CORP.

In 2014, Ansell Lighting was purchased by Endo Lighting Corporation of Japan as part of their global business expansion. Founded in 1967, Endo have been manufacturing luminaires for more than forty years with manufacturing facilities in Japan, Thailand and China.

Since 2008 luminaire manufacturing has been dedicated solely to LED products.



### **Japan**

*Endo Lighting Corp*



### **Thailand**

*ENDO Lighting (Thailand) Public Company Limited*



### **Singapore**

*ENDO Lighting SE Asia Pte.Ltd*



### **Philippine**

*ENDO Lighting (Thailand) Public Company Limited  
Philippines Representative Office*



### **Pune**

*Endo Lighting Accessories India Pvt.Ltd*



### **Beijing**

*Endo Trade (Beijing) Shanghai Co. Ltd*



### **Vietnam**

*Endo Lighting Vietnam Co. Ltd*



### **Endo Headquarters**

*Osaka Japan*



# Ansell Testing Facilities

Considerable investment in our test facility ensures our products are fully compliant with all relevant regulations and standards. Comprehensive component and luminaire testing is undertaken to ensure the quality and long term reliability of every product manufactured.

As an LIAQA-assured company and a member of the Lighting Industry Association (LIA), Ansell Lighting received during 2019, the coveted LIAQA award for our commitment to quality and we are proud of this recognition.



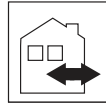
# Easy Search Icon Guide



Suitable for  
internal use only



Suitable for  
external use only



Suitable for both  
internal and external use



Fire Rated  
Downlights



Product Warranty  
as shown



iCage Lifetime  
Guarantee



AC LED  
Products



RGB Colour Change  
LED Products



Ingress Protection  
Rating



Impact Protection  
(IK Rating)



Bathroom Zone 1  
BSEN7671:2008  
Full details page 534



Bathroom Zone 2  
BSEN7671:2008  
Full details page 534



Self-Test  
Emergency



Self-Test  
Emergency Option



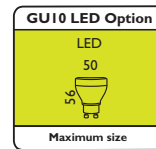
Italian Innovation  
and Design



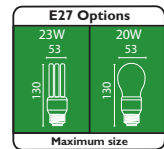
Surface Finish with the  
Appearance of Wood



Low Carbon Stainless  
Steel for Excellent  
Corrosion Resistance



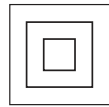
LED Energy Saving  
Lamp Options



Energy Saving  
Lamp Options



Class I  
Luminaires with  
Earth Connection



Class II  
Luminaires with  
Double Insulation



Class III  
Luminaires with  
Supply of Safety  
Extra Low Voltage (SELV)



European Community  
Conformity



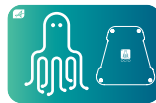
Bluetooth Enabled



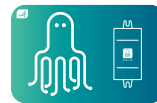
OCTO Compatible with  
Smart Lamp



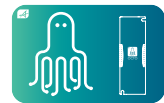
OCTO Compatible with  
Smart Indoor controller



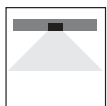
OCTO Compatible with  
Smart Outdoor controller



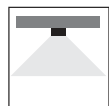
OCTO Compatible with  
Smart RGBW controller



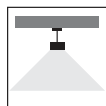
OCTO option for OCTO  
Integrated Driver



Recessed Mounting



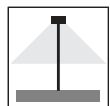
Surface Mounting



Suspended Mounting



Wall Mounting



Pole Mounting



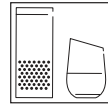
Selectable Colour  
temperature via manual  
switch



Tunable White selectable  
colour temperature



RGB and Tunable  
White selectable colour  
temperature



Voice Control



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Product Price Index	<b>548</b>
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# Ansell Lighting App

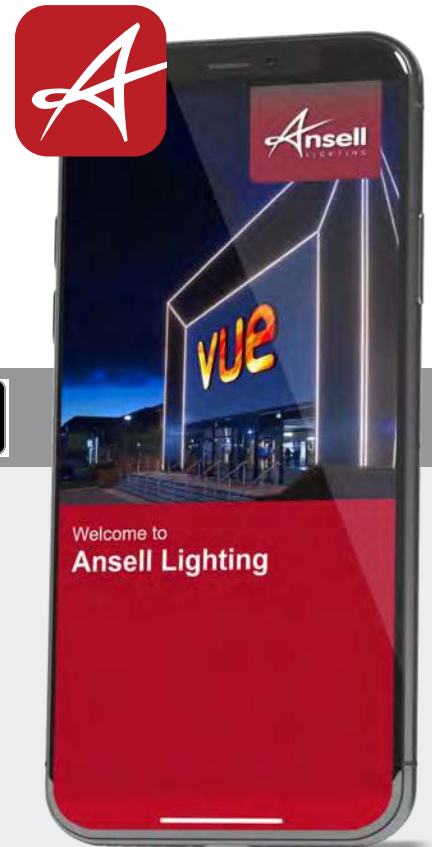
Available to download from



The Ansell Lighting App has been designed with ease of use in mind which enables our customers to access the information they need, wherever they are.

Our app takes the customer experience to the next level, offering a variety of useful features and a simple method of gaining access to information via your smartphone.

These features include things like our Ready Reckoner, Installation Inspiration or Energy Saving Calculator, with functionality that allows you to find the right product fast.



## Ansell Website

The Ansell Lighting responsive website offers a high-quality, intuitive user experience and can be accessed via PC, tablet or smartphone. Navigation around the site is quick and easy with its improved search functionality makes finding exactly what you're looking for hassle-free.

Visit [www.anselluk.com](http://www.anselluk.com) to find out more...



Follow us on Twitter  
@Ansell\_Lighting



Like us on Facebook  
Search "Ansell Lighting"



Watch us on Youtube  
Search "Ansell UK"



Follow us on Instagram  
Search "Ansell Lighting"



Like us on LinkedIn  
Search "Ansell Lighting"



## Lighting Design Service

**RELUX<sup>®</sup> DIALux**



ACCREDITED  
SUPPLIER

*Our design team have a comprehensive product knowledge, technical experience and creative talent that provides the perfect solution every time for interior and exterior project applications.*

*Utilising the leading Relux and DIALux design programmes, the team are able to provide three dimensional digital representations for each design including illuminance plots and colour images which provides a clear, precise and professional representation of the design.*

***“Ansell Lighting provided an LED lighting solution to upgrade our existing luminaires to LED at our Fire Service HQ. The performance of the products led to a significant reduction in energy costs and a massive overall improvement in the aesthetics and light levels of all offices throughout the premises. This provided a safe and efficient working environment, fully justifying our decision to trust the high quality LED lighting products from Ansell Lighting.*”**



**GREATER MANCHESTER  
FIRE AND RESCUE SERVICE**

***Steve Mutch, Estates & Buildings Engineering Officer for GMFRS***

**Warrington:** +44 (0) 1942 433333  
**Belfast:** +44 (0) 2890 773750



***Designed to . . .***

# ***Deliver***

## ***Design***

*Continued investment in product design by our dynamic in-house team puts us at the forefront of LED lighting technology*



## ***Manufacture***

*An efficient and streamlined manufacturing facility ensures a thorough and responsive service to our customers.*



## ***Assembly***

*Our highly-skilled production team assemble a wide variety of high quality luminaires, continually providing customers with cutting edge lighting products.*



## Testing

All Ansell Lighting products are rigorously tested and fully compliant with European lighting equipment standards.



## Next Day Delivery

Our staff have a wealth of experience in warehouse management, ensuring our products are despatched efficiently.

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



## Warrington

Product Display Area: 230m<sup>2</sup>



# Visit our Showrooms

Our state of the art showrooms in Warrington, Belfast and Dublin are accessible to our wholesale customers, contractors, architects and consultants. Designed to provide visitors with detailed insight into our products and services, our showrooms showcase our luminaires in a professional, modern 'living' environment.

To book an appointment at any of the Ansell Lighting showrooms, please contact us at [showroomenquiries@anselluk.com](mailto:showroomenquiries@anselluk.com)

*"The showroom visit provided my team with an unrivalled opportunity to view and appreciate the true extent, quality and performance of the LED product range. We were very impressed with the knowledge and professionalism of the Ansell team".*



*Mark Watts, Director*

**Dublin**Product Display Area: 115m<sup>2</sup>
**Ansell**  
 LIGHTING

# Try our VR Experience

Have you experienced our immersive VR showroom yet?

Our VR experience places you at the centre of our showroom, as well as in car showrooms, skate parks and gyms that enables you to view products in location. This allows those who are unable to visit one of our showrooms to experience the full effects of our lighting solutions first hand.

**Belfast**Product Display Area: 200m<sup>2</sup>

Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750



# New Product Overview

## Connected Lighting



**27**  
OCTO WIZ A60  
Tuneable White Smart  
Lamp



**28**  
OCTO WIZ A60  
RGBW Smart Lamp



**39**  
OCTO WIZ G100  
RGBW Smart Lamp



**31**  
OCTO WIZ Venom  
RGBW Flexible LED  
Strip Kit



**32**  
Prism Pro WIZ FRD



**34**  
OCTO WIZ 400W  
Indoor Controller  
Retro-Connector



**52**  
OCTO Smart High Bay  
Racking Aisle  
PIR Sensor



**53**  
OCTO Smart High Bay  
Open Area  
PIR Sensor

# Display



64

*Prism Pro Wiz FRD*



66

*Prism Pro LED Fire Rated Downlight*



68

*Prism Pro LED Fire Rated Downlight CCT Pack*



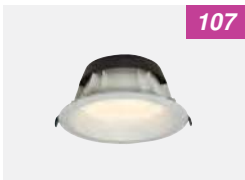
69

*Prism Pro LED Fire Rated CCT Gimbal*



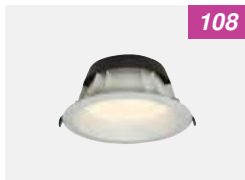
104

*Comfort LED Tuneable White Downlight*



107

*Comfort LED CCT Downlight*



108

*Comfort LED CCT HP Downlight*



116

*Anzo MultiLED CCT Adjustable Downlight*



130

*Hawk Universal Lithium Emergency Kit*



163

*Mini 24V Single Circuit Track*



164

*Unity Mini 24V Adjustable Trackspot Accessories*



165

*Single Circuit Unity Mini 24V Adjustable Trackspot*



173

*Single Circuit Low Profile Unity 1 LED Track*



174

*Single Circuit Low Profile Unity 2 LED Track*



175-181

*Single Circuit Unity LED Reflector Accessories*



184

*Compass LED Adjustable Projector Track*



195-202

*Three Circuit Unity LED Reflector Accessories*



251

*Gamma Mini LED CCT*



253

*Gamma LED CCT*

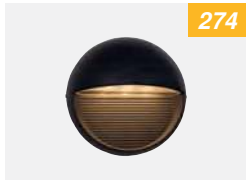
# New Product Overview

## Amenity



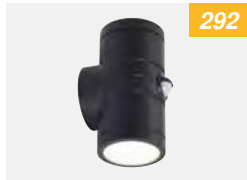
267

Reef LED CCT Surface Downlight



274

Kappa LED Warm White



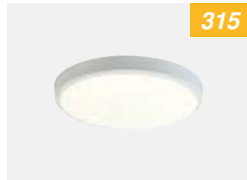
292

Reef LED CCT Bi-directional Wall Light



310

Eclipse MultiLED CCT



315

Gamma Mini LED CCT



317

Gamma LED CCT



324

Astro LED CCT



325

Delta LED CCT



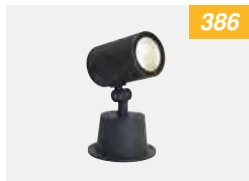
333

Sorrento 2 LED CCT



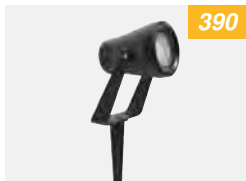
340

Mattone LED Uni-Bricklight CCT



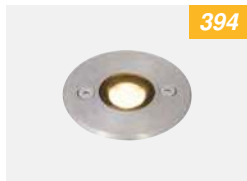
386

Lazer LED Projector



390

Garda GU10 LED



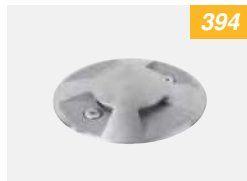
394

Turlock LED Inground Uplight 70 Warm White



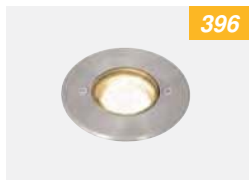
394

Turlock LED 70 2-Way Mini Drive Over Cover Accessory



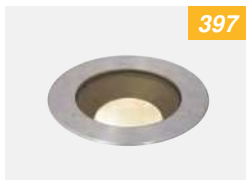
394

Turlock LED 70 4-Way Mini Drive Over Cover Accessory



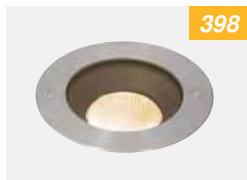
396

Turlock LED Inground Uplight 95 Warm White



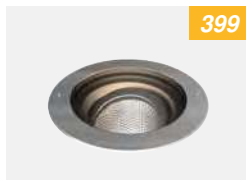
397

Turlock LED Inground Uplight 175 Warm White



398

Turlock LED Inground Uplight 230 Warm White



399

Fresno LED Adjustable Inground Uplight 185



401

Fresno LED Adjustable Inground Uplight 270

## Floodlighting



411

Orion Asymmetrical LED Floodlight



424-425

Eden LED Floodlight



426

Lynx Mini LED CCT Wallpack



427

Lynx LED Wallpack Warm White



## Industrial



439

Z LED High Bay  
Microwave Sensor  
Programmer

## Commercial



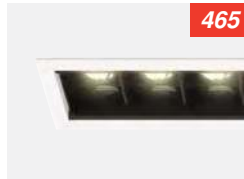
463

Vasco LED CCT  
Bi-directional  
Suspended Linear



464

Sidu LED  
Pendant 1500mm



465

Eaves LED Recessed  
Linear



469

Crescent LED Surface  
Linear 1500mm



482

Endurance LED  
1200x600 Surface  
Mounting Frame



483

Endurance LED  
1200x300 Surface  
Mounting Frame

## Emergency



506

EndLED Lithium  
Black Exit Sign



511

Kestrel LED Suspended  
Exit Sign



512

Razzo LED Lithium  
Recessed Black  
Exit Sign



528

Hawk Universal Lithium  
Emergency Kit



OCTO™





# Connected Lighting

## Project

Private Residential - Alderley Edge, UK



Orbio 360 LED

p62

# Connected Lighting Service

18

OCTO is Ansell's premier connected lighting service providing our customers with tailored and personalised solutions. We don't believe that there's one connected technology that fits all. OCTO supports your smart lighting installation from initial project scope and planning, to lighting design, install, commissioning and aftercare.

The OCTO service ensures that we support you in implementing the best, connected solution for your projects using our 'multi-option technology' approach. With a range of products in our portfolio, we have carefully selected partners and scrutinised world-class technologies to ensure we offer you an industry-leading service.

We can support a range of requirements, from residential applications requiring voice control, commercial buildings that prioritise energy saving and support employee wellbeing, to a warehouse that requires space optimisation and efficiency dashboard data ... and much more!

With our continuous research, development and innovation, OCTO is constantly evolving to ensure we can offer revolutionary, forward thinking solutions for all our customers.



*WiZ Connected is the perfect solution for residential smart lighting*



*Casambi systems are the ideal solution for many high end residential, commercial and Industrial applications*

Join the...



OCTO  
GURU



OCTO  
MASTER

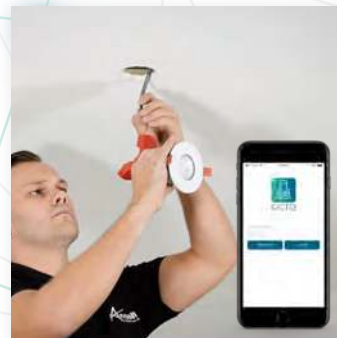
## Programme Today!

Attend one of our introductory training sessions to learn more about the fantastic benefits of the OCTO connected solution. You will also receive your unique I.D key and access to the OCTO portal so you can start registering your OCTO installations and claiming rewards.

It could not be simpler with our easy to use app.



**Step 1:** Attend the OCTO introductory session where you will be given a unique I.D key



**Step 2:** Once you've installed OCTO register the installation via the app using your I.D key



**Step 3:** Login to your own OCTO portal and upload the invoice to verify



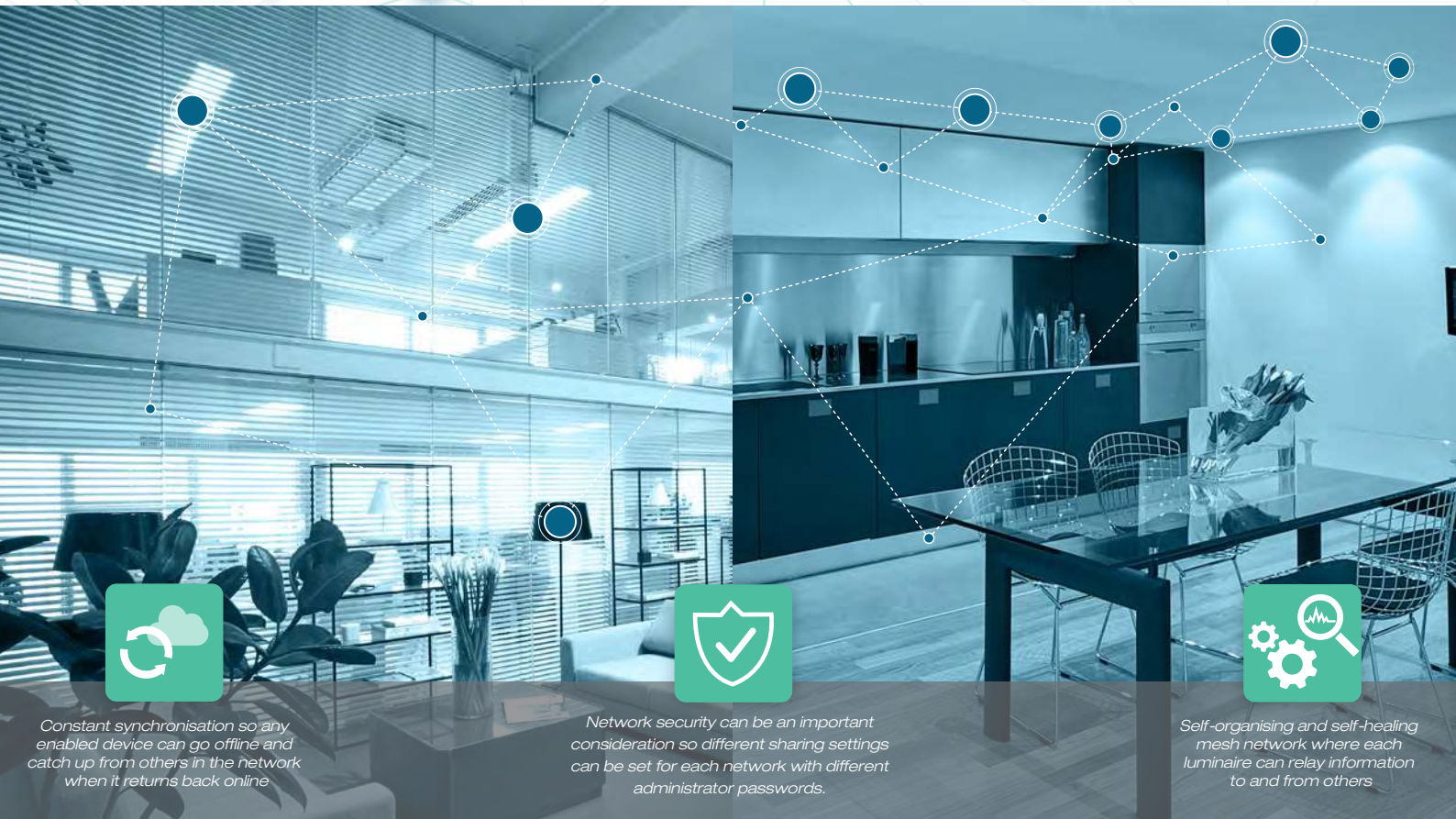
**Step 4:** Keep a track of your progress via the portal and claim your rewards

# /OCTO - Smart control

Look out for the new /OCTO option in our catalogue, this allows a number of luminaires to be OCTO ready with the change of a driver and no need for the OCTO controller.

**please see products listing on page 40**

OCTO forms a proprietary mesh network where all system intelligence is replicated in each device, creating a network with no single points of failure.



Constant synchronisation so any enabled device can go offline and catch up from others in the network when it returns back online

Network security can be an important consideration so different sharing settings can be set for each network with different administrator passwords.

Self-organising and self-healing mesh network where each luminaire can relay information to and from others

## Pairing and Networks



### **Pairing:**

OCTO App will automatically find all OCTO enabled luminaires that are switched on

### **Grouping:**

Control luminaires in a group together or as individual fittings

### **Scenes:**

Lighting scenes and schedules create the perfect ambience for different occasions and needs

### **Network:**

127 devices can be used per network, but there is no limit to the number of networks

# Presence and Absence Detection

OCTO provides professional level control coupled with easy, intuitive commissioning. Functionality such as presence and absence detection - which reduces the amount of time the light is on. This can be set up effortlessly through the OCTO by Casambi App.

## Absence Detection (Commercial)



Upon entering a room the person switches on the light as normal, but on leaving the detector switches off the lighting automatically. Lights can also be switched off manually

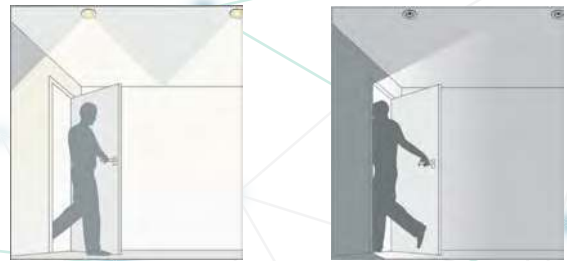
## Absence Detection (Domestic)



## Presence Detection (Commercial)



## Presence Detection (Domestic)



Detectors will switch on lighting automatically when a person enters the room and switches off lighting automatically when no movement is detected

# Daylight Harvesting

Daylight harvesting systems allow buildings to maximise natural lighting in the home/workplace, thereby reducing and increasing the artificial lighting as and when needed providing reduced energy consumption.

*OCTO Smart PIR sensors can be used for Daylight harvesting to maximise energy savings*



- Accurate 'real time' clock with battery back up when powered off
- Accurately times override ON or OFF
- Active or passive PIR occupancy switching
- Automatic daylight savings time (BST) correction with offset adjustment
- Automatic sunrise / sunset prediction. This feature can be remotely adjusted via the OCTO App.

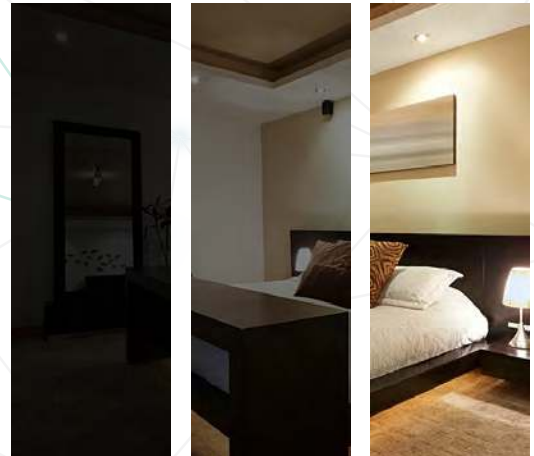
- Accurate 'real time' clock with battery back up when powered off
- Accurately timed override ON or OFF
- Active or passive PIR occupancy switching
- Automatic daylight savings time (BST) correction with offset adjustment
- Automatic sunrise / sunset prediction. This feature can be remotely adjusted via the OCTO App.
- LED indicator for presence recognition within its detection range (can be turned off).

# Circadian Rhythm in lighting

When designing a space for optimum productivity, it is not uncommon to focus on the colours of the walls and the layout of the building, but lighting has the potential to help a person's natural circadian rhythm. The right lighting changes (in the right place and at the right time) can potentially result in people who are more focused and productive during the day and experience fewer sleep disturbances at night.

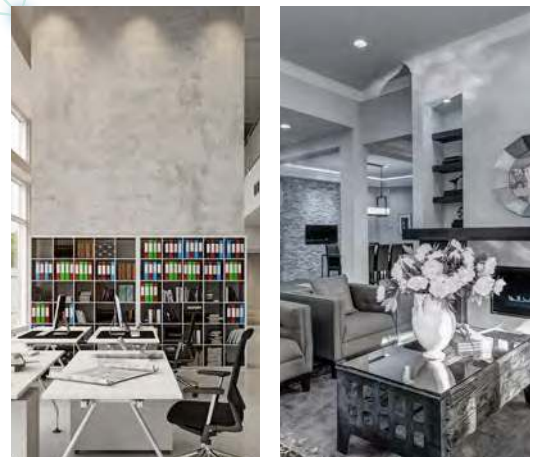
## *Waking Up: The Energy of Natural Light*

Gradual changes in lighting intensity, colour spectrum and temperature (that mimic the changing sky during sunrise) may help maximise feelings of alertness when a person is first awake.



## *Focusing: The Power of Cool Light*

Individuals exposed to cooler lights can feel alert, more productive and perform better on tests. Cooler lighting can help workers focus while in the office, whether they are working on computers, taking client calls or collaborating on intensive projects.



## *Winding Down: Warm Light and Creativity*

This could be an optimal time to use lighting to help people solve creative challenges. Warm lighting can promote creativity during project meetings or client pitches and support problem solving as people think through complex challenges.





# OCTO WiZ

## Key Features...



- Full control via WiFi, mobile data networks, infrared remote or existing switches
- Advance voice control, works with Google Assistant, Amazon Alexa and Apple Siri Short cuts
- Integrates easily through cloud to most other connected systems
- Powerful multi-user system with three different access right tiers over multiple WiZ locations
- Multi-location allows full control from anywhere as long as there is an internet connection
- No hub needed, for smarter automation as WiZ lights are directly, constantly and reliably connected to the cloud
- Total flexibility with 64,000 shades of white, 16 million colours and preset well-being modes
- Security protection via anonymous sign in and encrypted cloud connections

**\*\* OCTO WiZ is not compatible with any OCTO Casambi products\*\***

# OCTO - *WiZ Connected*



*Mobile App*



*Voice Control*



*Scenes*



*Integrations*



*Schedules*



*Holiday mode*

## *Multiple Locations*



Turn your lights on in your home from your office and vice versa. You can even control your WiZ locations from as far away as the moon. As long as you've got internet access, you can do what you want to do with your lights – even when you're not physically there.

## *No Hub Needed*



Each WiZ light has its own brain – a 32-bit MCU chip with WiFi – for smarter automation, as our lights are directly, constantly and reliably connected to the cloud for up-to-date preferences and settings without any dependency on a hub or bridge.

## *Multiple Users*



We have a powerful multi-user system with three different access right tiers over multiple WiZ locations:

- Owners can change settings and control the lights in all their WiZ locations – as long as they have internet connectivity.
- Guests can enjoy control over lights when they are on the same WiFi network – but they will not be allowed to change any settings.
- Temporary guests have the same permissions as ordinary guests... but they will lose access after a certain time period that you get to set for them – each one can be different!



Preset light modes



Preset Dynamic light modes



## Advanced Voice Control



In the past, you had to get a smart speaker like Google Home, the Apple HomePod or Amazon Echo Dot before you could enjoy voice control capabilities with your lights...

...Now with Google Assistant and the newly released Siri Shortcuts on iOS 12, you can control your lights by talking to any smartphone. Whether you're at home with smart speakers or at work with your phone, you can use your lights with your voice.

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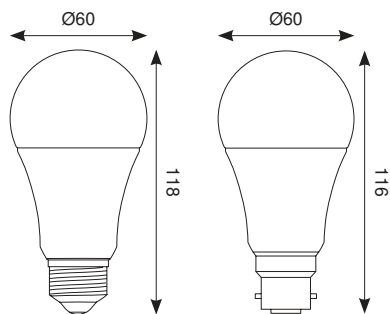


*Designed to*  
***Deliver...***

# OCTO WiZ A60 Tuneable White Smart Lamp



- Bluetooth and Wifi enabled smart lamp; no need for Wifi hub
- Commissioned via WiZ App
- Voice activated compatibility; offers hands-free controls, perfect for domestic and commercial properties
- Comparable output to a 60W Tungsten Halogen
- Fully dimmable from 10% to 100%
- Tunable white between 2700K - 6500K
- E27 and B22 base options available
- Group, scene, holiday and timer settings achieved via WiZ App
- Suitable for indoor applications in dry rooms, professional use in public buildings and outdoor use in specially shielded luminaires
- Lamp lifespan 25,000 hours



### Lamp Information

Total (Watts)	8W
Lumens Delivered	806lm
CRI	Ra 90
CCT	2700-6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	-20°C - 45°C

Code	Lamp	Description
<b>AOCTOW/A60LED/TW/E27</b>	E27	8W - LED Tunable White - E27
<b>AOCTOW/A60LED/TW/B22</b>	B22	8W - LED Tunable White - B22



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 Belfast: +44 (0) 2890 773750



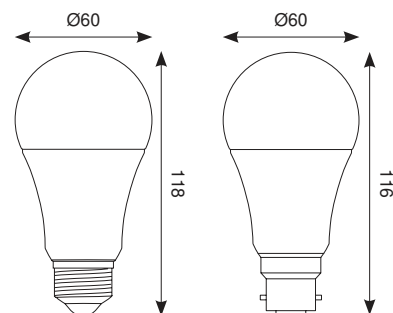
# OCTO WiZ A60 RGBTW Smart Lamp



Voice Control



- Bluetooth and Wifi enabled smart lamp; no need for Wifi hub
- Commissioned via WiZ App
- Voice activated compatibility; offers hands-free controls, perfect for domestic and commercial properties
- RGB and Tunable white for total colour and comfort
- Comparable output to a 60W Tungsten Halogen
- Fully dimmable from 10% to 100%
- E27 and B22 base options available
- Comparable output to a 60W Tungsten Halogen
- Group, scene, holiday and timer settings achieved via WiZ App
- Suitable for indoor applications in dry rooms, professional use in public buildings and outdoor use in specially shielded luminaires
- Lamp lifespan 25,000 hours



Code	Lamp	Description
AOCTOW/A60LED/RGBTW/E27	E27	8W - LED RGBTW - E27
AOCTOW/A60LED/RGBTW/B22	B22	8W - LED RGBTW - B22

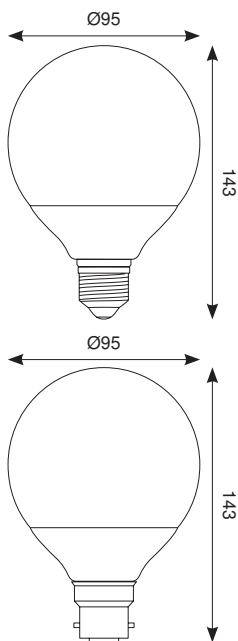
### Lamp Information

Total (Watts)	8W
Lumens Delivered	806lm
CRI	Ra 90
CCT	2700-6500K (RGB)
Input	220/240V
Hertz	50/60Hz
Operating Temp	-20°C - 45°C



# OCTO WiZ G95 RGBTW Smart Lamp

- Bluetooth and Wifi enabled smart lamp; no need for Wifi hub
- Commissioned via WiZ App
- Voice activated compatibility; offers hands-free controls, perfect for domestic and commercial properties
- Comparable output to a 60W Tungsten Halogen
- RGB and Tunable white for total colour and comfort
- Fully dimmable from 10% to 100%
- E27 and B22 base options available
- Group, scene, holiday and timer settings achieved via WiZ App
- Suitable for indoor applications in dry rooms, professional use in public buildings and outdoor use in specially shielded luminaires
- Lamp lifespan 25,000 hours



### Lamp Information

Total (Watts)	11W
Lumens Delivered	1055lm
CRI	Ra 90
CCT	2700-6500K (RGB)
Input	220/240V
Hertz	50/60Hz
Operating Temp	-20°C - 45°C

Code	Lamp	Description
<b>AOCTOW/G95LED/RGBTW/E27</b>	E27	11W - LED RGBTW - E27
<b>AOCTOW/G95LED/RGBTW/B22</b>	B22	11W - LED RGBTW - B22



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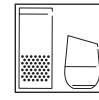
# E OF COURAGE



**Project - St Helens RFC**  
St. Helens, UK



# OCTO WiZ Venom RGBW Flexible LED Strip Kit



Voice Control



- Bluetooth and Wifi enabled smart flexible LED strip kit; no need for Wifi hub
- Commissioned via WiZ App
- Voice activated compatibility; offers hands-free controls, perfect for domestic and commercial properties
- RGB and Tunable white for total colour and comfort
- Fully dimmable from 10% to 100%
- 2m starter kit with additional 2m extender kit options available
- Group, scene, holiday and timer settings achieved via WiZ App
- Suitable for indoor applications
- LED lifespan 25,000 hours



### Lamp Information

Total (Watts)	30W
Lumens Delivered	2000lm
CRI	Ra 85
CCT	2700-6500K (RGB)
Input	24VDV
Operating Temp	-10°C - 45°C

Code	Lamp	Description
<b>AOCTOW/VENOM/KIT/RGBTW</b>	LED	RGBTW Flexible LED Strip Kit 2m
<b>AOCTOW/VENOM/EXT/RGBTW</b>	LED	RGBTW Flexible LED Strip Extension Kit 2m

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# Prism Pro Wiz FRD

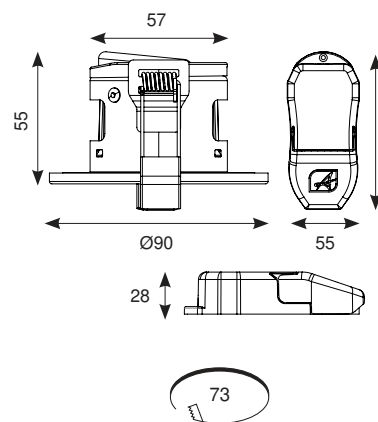
Supplied c/w Remote Driver



OCTO



Easy wiring access



Matt White Bezel fitted as standard

- 220-240V IP65 LED Wiz enabled tunable white Fire Rated Downlight
- Supplied with matt white bezel as standard
- Tunable between 2700K - 6500K via Wiz App and voice control
- Remote driver with 2x1.5mm<sup>2</sup> + CPC loop-in, loop-out colour coded push fit piano terminals provide an easy and efficient installation
- Detachable LED driver for fast fix install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

LED Information	
Total (Watts)	8W
Lumens Delivered	2700K ↔ 6000K 573lm ↔ 547lm
Lm/W	2700K ↔ 6000K 82lm ↔ 78lm
Beam Angle	60°
CRI	Ra 80
CCT	Tunable White
Input	230V
Hertz	50/60Hz
Operating Temp	-5°C to 25°C

Code	Lamp	Description
APRILEDP/OCTOW	LED	8W - Tunable White





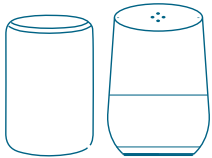
OCTO

WIZ  
CONNECTED



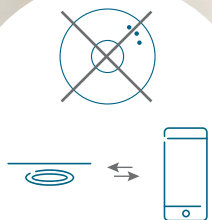
### WiFi and Bluetooth

Two protocols for versatility with a range of accessories and commissioning. Added reliability if one protocol connection is lost the other will allow normal use.



### Advance Voice Control

Full voice control with smart speakers and now with Google Assistant and Siri Shortcuts on iOS 12, have full control of your lights by talking to any smartphone.



### No Hub Needed

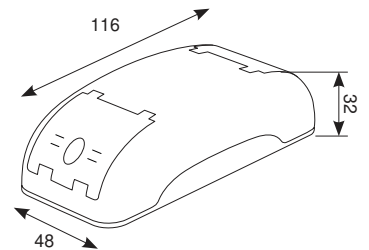
32-bit MCU chip provides smarter automation, as WIZ lighting is directly, constantly and reliably connected to the cloud there is no dependency on a hub or bridge.



# OCTO WiZ 400W Indoor Controller Retro-Connector



- Bluetooth and Wifi enabled indoor controller; no need for Wifi hub
- Can be used to control a group, sub groups or individual luminaires
- Commissioned via WiZ App
- Universal retroconnector ON / OFF, Phase / Triac dimming, 0-10V and 1-10V dimming
- Voice activated compatibility; offers hands-free controls, perfect for domestic and commercial properties
- Future proofed free software and firmware updates
- Fully dimmable from 10% to 100%
- Group, scene, holiday and timer settings achieved via WiZ App
- Suitable for indoor applications
- Bluetooth wireless mesh ensures reliable and fast operation



Code	Description
AOCTOW/IC/400	400W - Indoor Controller Retro-Connector

Output	220W @ 110V 440W @ 220V
Input	100V-240V
Hertz	50/60Hz
Operating Temp	0°C - 40°C





\*1 Circuit = 1 Controller\*

\*\* Range is dependent on surroundings and obstacles, such as walls and building materials. \*\*

1

### \* OCTO WiZ Indoor Controller Retro-Connector

- Commissioned via WiZ App
- Full control via WiFi, mobile data networks, infrared remote or existing switches
- Advance voice control, works with Google Assistant, Amazon Alexa and Apple Siri Short cuts
- Universal retroconnector ON/OFF, Phase / Triac dimming, 0-10V and 1-10V dimming
- Fully dimmable from 10% to 100%

# OCTO Casambi

## *Key Features...*

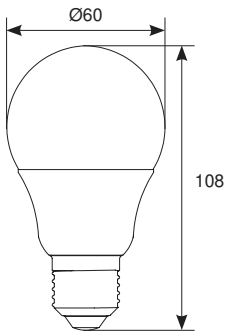
36



- Easy to use, wireless controllable lighting system
- Intuitive operation and set-up via a smart device
- No need for an external gateway device
- Automatically forms a fast-wireless mesh network
- Nearby OCTO powered by Casambi devices are clearly seen and added.
- Device firmware can be updated over the air
- Cloud services enhances user experience
- Smart lighting control switches can be easily added to the OCTO powered by Casambi system
- OCTO App is compatible with some key dimming and colour control commands for the Philips Hue system

**\*\* OCTO Casambi is not compatible with any OCTO WiZ products\*\***

- Bluetooth enabled smart lamp
- Commissioned via OCTO App
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- CCT control from 2200K to 6900K
- Fully dimmable from 1% to 100%
- Comparable output to a 60W Tungsten Halogen
- Group and scene settings achieved via OCTO App
- Suitable for indoor applications in dry rooms, professional use in public buildings and outdoor use in specially shielded luminaires
- LED lifespan L70 25,000 hours



### Lamp Information

Total (Watts)	8W
Lumens Delivered	560lm
Beam Angle	150°
CRI	Ra 95
CCT	2200-6900K
Input	220/240V
Hertz	50/60Hz

Code	Lamp	Description
<b>AOCTOBTL/8W/E27</b>	E27	8W - 2200K-6900K
<b>Accessories AOCTOBTL/ADAPTOR/B22</b>	E27 to B22 Adaptor	



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# OCTO Indoor Controller

38



- Push-fit loop-in, loop-out terminals for ease and speed of installation
- Screw-less design
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Intuitive fast operation from a smart lighting App
- Future proofed free software and firmware updates
- Can be used to control a group, sub groups or individual luminaires
- Settings easily commissioned by a smart device
- App commissioning includes full control, dimming, scene setting and pre-set timer
- Bluetooth wireless mesh ensures reliable and fast operation. Range between devices: 15m internal, 30m external\*\*

**NB**

The indoor and outdoor OCTO Controllers are designed to operate Triac dimmable LED luminaires and LED light sources, however consideration must be given to PFC (Power Factor Correction) which can affect the final loading. Please refer to instructions for further details.

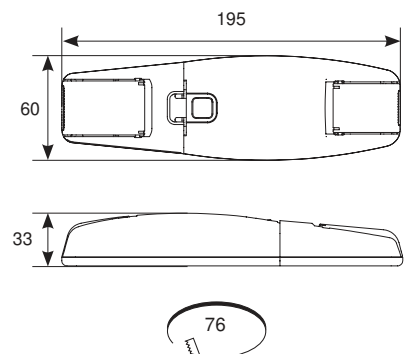
Wiring Configuration



Installation Method



Powered by  
**CASAMBI**



Code	Description
AOCTO/IC/50	150W - Smart Controller
AOCTO/IC/200	200W - Smart Controller

Output	150W 200W
Input	220V-240V
Hertz	50/60Hz





1

## \* Circuit 1 - OCTO indoor controller

- ◆ Allows full control of all fittings connected to the network
- ◆ Scene setting to create a fitting atmosphere
- ◆ Holiday mode settings
- ◆ Compatible with Indoor wireless smart switch
- ◆ Easy installation / retrofit ready

2

1



## \* Circuit 2 - OCTO indoor controller

- ◆ Turn on/off, dim or \*adjustable colour temperature
- ◆ Timer functionality with built in sunrise and sunset app setting
- ◆ Control from anywhere depending on Wi-Fi connection

*\*Colour temperature may only be adjusted with compatible Smart Lamps/Luminaires*

\*1 Circuit = 1 Controller\*

\*\* Range is dependent on surroundings and obstacles, such as walls and building materials. \*\*

# OCTO Indoor CCT/RGBW Controller

40



Wiring Configuration for RGB



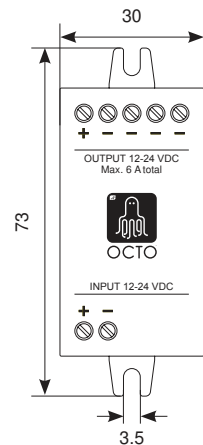
Wiring Configuration for 1-4 Separate white channels



Code	Description
AOCTO/RGBW/BTC	12-24V Single CCT/RGBW Controller

- 12-24V bluetooth smart controller
- Compatible with Krait, Boa, Adder and Cobra LED strip p.230-237
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Option to use externally within a waterproof enclosure
- Timed colour alert or changes for different daily events
- Initial start up provides the user with options for RGBW, RGB, Tunable White and single colour
- Shared/common positive output with 4 negatives outputs allow for 4 channel control
- App commissioning includes full control, dimming, scene setting and pre-set timer
- Settings easily commissioned by a smart device via the OCTO app
- Bluetooth wireless mesh ensures reliable and fast operation. Range between devices: 15m internal, 30m external\*\*
- **12-24V constant voltage LED driver:**
  - AD30W/12V
  - AD75W/12V
  - ADK15W/24V
  - ADK60W/24V
  - ADK120W/24V

Powered by **CASAMBI**



Max. Wattage	72W - 12V 144W - 24V
Output	6A Max.
Input	12-24VDC



\*\* Range is dependent on surroundings and obstacles, such as walls and building materials. \*\*



\* Circuit 1 - OCTO indoor RGBW controller

- Scene setting to create a fitting atmosphere
- Compatible with all other bluetooth OCTO devices
- Easy installation / retrofit ready
- Full RGBW colour palette via app
- Wireless colour synchronisation

\*1 Circuit = 1 Controller\*



\*Circuit 1 - OCTO Outdoor controller

- Control all fittings connected to this circuit
- Fast-wireless mesh network
- Security mode with pre-set timers
- IP65 bluetooth PIR sensor
- Scene setting to create an atmosphere to suit the occasion
- Dimmable 1% - 100%
- Compatible with the Outdoor Wireless Smart Switch

\*1 Circuit = 1 Controller\*

\*\* Range is dependent on surroundings and obstacles, such as walls and building materials. \*\*

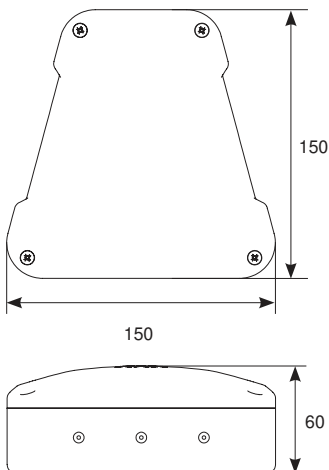
# OCTO Outdoor Controller

- Control outdoor lighting from smart device
- Heavy duty screw connections suitable for SWA / outdoor cable types
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Detachable connector block to aid connection of stronger cable types
- Waterproof with IP66 rating
- Robust polycarbonate casings for outdoor use. UV stabilised
- Intuitive fast operation from a smart App
- Can be used to control a group, sub groups or individual luminaires
- App commissioning includes full control, dimming, scene setting and pre-set timer
- Bluetooth wireless mesh ensures reliable and fast operation. Range between devices: 15m internal, 30m external\*\*

## NB

The indoor and outdoor OCTO Controllers are designed to operate Triac dimmable LED luminaires and LED light sources, however consideration must be given to PFC (Power Factor Correction) which can affect the final loading. Please refer to instructions for further details.

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Output	200W
Input	220V-240V
Hertz	50/60Hz



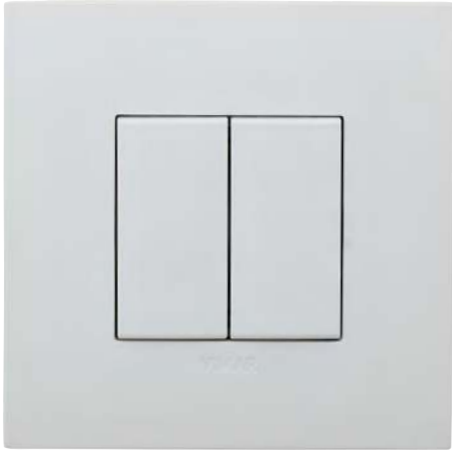
## Wiring Configuration



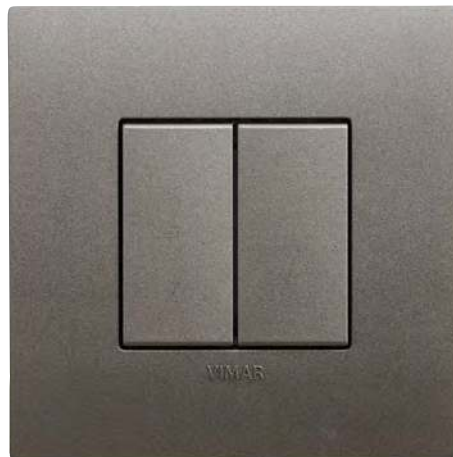
Code	Description
AOCTO/OC/IP65/200	200W



# OCTO Indoor Wireless Architectural Smart Switch



AOCTO/WS/W



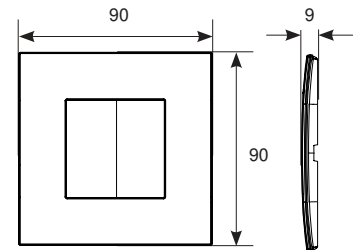
AOCTO/WS/M



AOCTO/WS/B

- Double rocker wireless wall switch
- High grade technopolymer construction available in 3 finishes:- white, metallic and black
- Electro-dynamic energy generator, maintenance free
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Range - within one room up to 10 metres line of sight
- Double-sided mounting film enclosed screwing onto a flat surface
- Double rocker with medial position, pressed/released

**CASAMBI**  
Enabled



Code	Description
AOCTO/WS/W	Indoor Wireless Switch - White
AOCTO/WS/M	Indoor Wireless Switch - Metallic
AOCTO/WS/B	Indoor Wireless Switch - Black



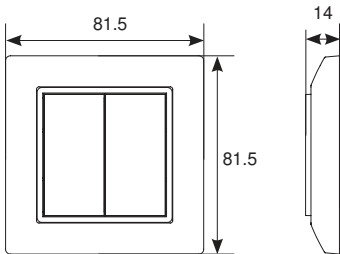
# OCTO Indoor Wireless Smart Switch



- Double rocker wireless wall switch
- Electro-dynamic energy generator, maintenance free
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Range - within one room up to 10 metres line of sight
- Double-sided mounting film enclosed screwing onto a flat surface
- Double rocker with medial position, pressed/released



**CASAMBI**  
Enabled



AOCTO/BT/WS



Code	Description
AOCTO/BT/WS	Indoor Wireless Switch

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**Belfast:** +44 (0) 2890 773750



# OCTO Indoor Wireless Xpress Smart Switch

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AOCTO/XP/WS/B



- Multifunctional 4 way bluetooth enabled smart switch
- Settings easily commissioned by a smart device via the OCTO app
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Integrated magnets ensure easy attachment to mounting bracket (mounting bracket supplied with switch)
- Range - within one room up to 30 metres line of sight



AOCTO/XP/WS/W



Corner illumination indicates which preset button is active

**CASAMBI**  
Enabled



#### 4 Corner Preset Buttons

Used to control a group, sub groups or individual luminaires, recall scenes and recall animations



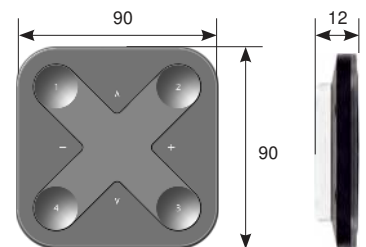
#### Dimming Buttons

Multi-gesture up and down dimming buttons allow user complete control over light levels



#### Multipurpose Buttons

Additional multipurpose buttons allow user to alter the colour temperature or the indirect/direct light ratio (on applicable fittings only)



Code

Description

AOCTO/XP/WS/W

Indoor Wireless Switch - White

AOCTO/XP/WS/B

Indoor Wireless Switch - Black

CE IP20



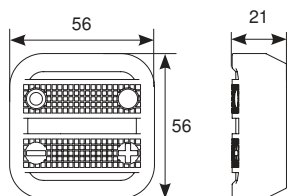
# OCTO IP65 Wireless Smart Switch



- Wireless soft outdoor remote control
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO eco-system
- Magneto-resistive power source
- Spill and shock resistant
- Advantages of a wireless system, no batteries required maintenance free
- Integrated magnet allows it to be stuck on any metallic area
- Range - 30 metres



**CASAMBI**  
Enabled



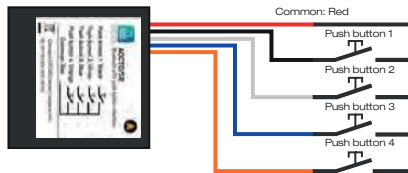
Code	Description
AOCTO/BT/WS/IP65	Outdoor Wireless Switch

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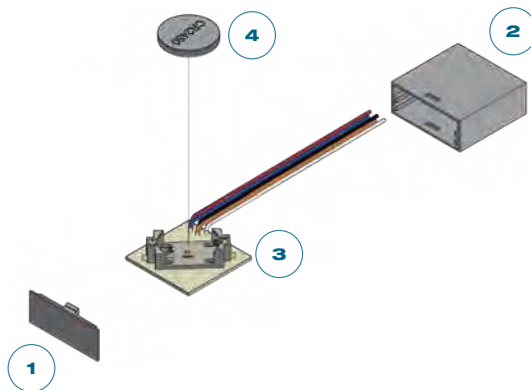
# OCTO Wireless Push to Make Switch Interface

48



**Connection Diagram**

Wires connected to the external push buttons. We suggest to keep the wires long enough, so battery replacement is possible without disconnecting the push buttons

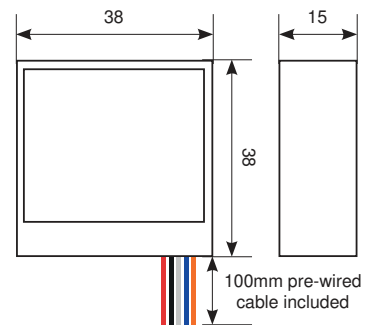


**Battery Replacement**

When battery indicator is showing a low level, a new battery will be needed. (Battery is available as spare part).

- Remove the cover (1) from the box (2).
- Pull out the PCB (3) slowly until the battery (4) can be removed.
- Replace battery and assure it is locked before sliding the PCB back in and putting the lit cover on.

- Bluetooth enabled smart 4 channel push to make switch interface
- Unit retrofits into existing push switch, making it smart enabled
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Slim 15mm profile suitable for installation into 35mm recessed pattress
- Pre-wired ensuring a fast and easy installation into pre-existing wall switch
- Compact housing allows installation into pre-existing wall box so no additional work is required
- 3V lithium battery operated negating the requirement for mains wiring
- Can be used to control a group, sub groups or individual luminaires on a 1-4 button push switch
- Settings easily commissioned by a smart device via the OCTO app



Code	Description
AOCTO/SR	4 Channel Push to Make Switch Interface





◆ Controller to Lighting Setup  
Connect OCTO indoor/outdoor controller to current lighting setup



◆ Controller to Lighting Setup  
Connect OCTO indoor/outdoor controller to current lighting setup



◆ Consumer Unit to Controller  
Connect live cable from consumer unit to OCTO indoor/outdoor controller



*Turn your switches into*

# Smart Switches

The 4 channel push to make switch interface retrofits into existing push switches, making them smart enabled (up to 4 gang push to make switches only). See above how the interface will integrate into your current switch setup.

# OCTO Smart PIR Sensors

50

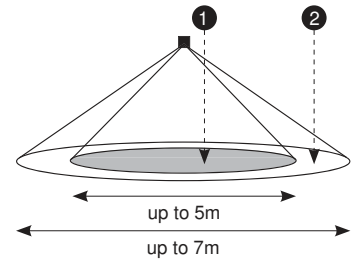


Indoor Surface PIR Sensor  
AOCTO/BT/PIR-S



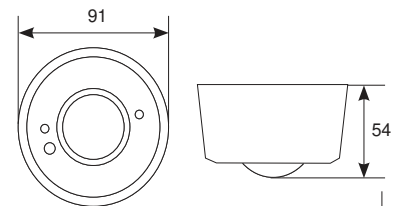
Indoor Recessed PIR Sensor  
AOCTO/BT/PIR-R

- Bluetooth enabled PIR sensors
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Infrared PIR detector and photocell
- Suitable for residential and commercial applications
- Loop-in, loop-out internal connections for ease of installation
- Detection range strength:
  - 1) Strong detection zone i.e. person moving arm or walking towards PIR
  - 2) Secondary detection zone i.e. person walking perpendicular to PIR

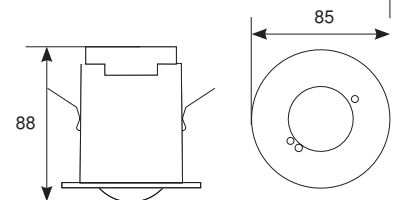


For optimum coverage recommended mounting height: 2.4m to 5m

**CASAMBI**  
Enabled



AOCTO/BT/PIR-S



AOCTO/BT/PIR-R

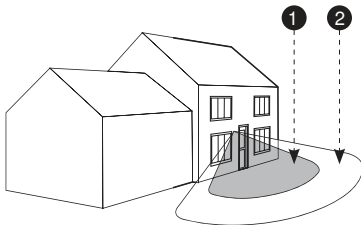
Code	Description
AOCTO/BT/PIR-R	Smart Recessed PIR Sensor - White
AOCTO/BT/PIR-S	Smart Surface PIR Sensor - White

Input	230V
Hertz	50Hz



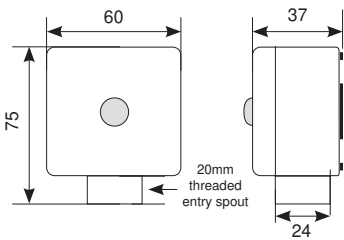
# OCTO IP65 Smart PIR Sensor

- Bluetooth enabled PIR sensors
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Suitable for residential and commercial applications
- Infrared PIR detector and photocell
- Detection range strength:
  - 1) Strong detection zone(5m) i.e. person walking towards PIR
  - 2) Secondary detection zone (10m, 8m) i.e. person walking perpendicular to PIR



For optimum coverage recommended mounting height: 1m to 2.2m

**CASAMBI**  
Enabled



Input	230V
Hertz	50Hz



Code	Description
AOCTO/BT/PIR/IP65-S	Smart IP65 Surface PIR Sensor

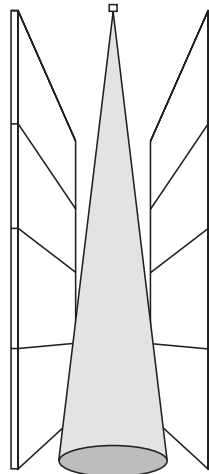
Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# OCTO IP66 Smart High Bay Racking Aisle PIR Sensor

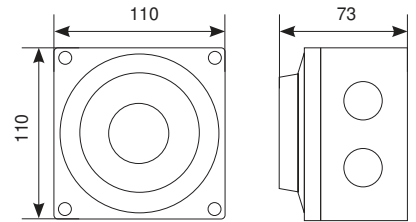


Mounting height up to 20m  
Perspective view - ceiling mounted



Up to 5m diameter

- Bluetooth enabled PIR sensor
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Infrared PIR detector and photocell
- Suitable for industrial high bay racking aisle applications with high mounting points (up to 20 metres)
- Fast and easy commissioning via the Casambi app



**CASAMBI**  
Enabled

Code	Description
AOCTO/BT/PIR/IP66/HBSP	Smart IP66 High Bay PIR Sensor - Racking Aisle

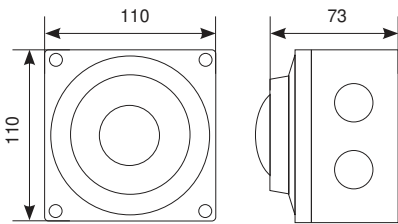
Input	220-240V
Hertz	50Hz
Operating temp	-20°C - 40°C



# OCTO IP66 Smart High Bay Open Area PIR Sensor



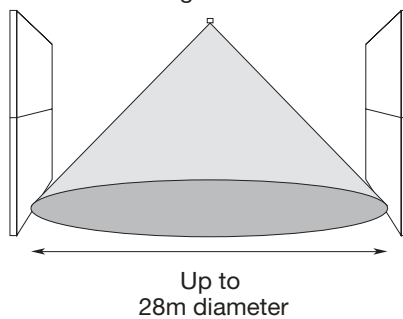
- Bluetooth enabled PIR sensor
- Compatible with all other bluetooth OCTO Casambi devices as part of the OCTO ecosystem
- Infrared PIR detector and photocell
- Suitable for industrial high bay open area applications with high mounting points (up to 14 metres)
- Fast and easy commissioning via the Casambi app



**CASAMBI**  
Enabled



Mounting height up to 14m  
Perspective view - ceiling mounted



Input	220-240V
Hertz	50Hz
Operating temp	-20°C - 40°C

Code	Description
<b>AOCTO/BT/PIR/IP66/HBWD</b>	Smart IP66 High Bay PIR Sensor - Open Area



Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# OCTO *Ready Products*

OCTO is an advanced lighting control solution based on Bluetooth Low Energy (BLE). OCTO devices are smart on their own. All the intelligence is replicated in each device, forming a secure, responsive wireless mesh network.

/OCTO

OCTO Smart Control



74-76

Unity GC Pro LED  
/OCTO Options



78-86

Unity LED Downlight  
Range /OCTO Options



88-90

Unity LED Square Downlight  
Range /OCTO Options



92-96

Unity LED Wallwash  
Range /OCTO Options



97-101

Recessed adjustable  
Downlight /OCTO Options



102

Galaxy LED  
/OCTO Options



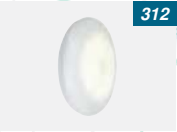
104-109

Comfort LED Range  
/OCTO Options



133

Surface downlight  
Range /OCTO Options



312

Mercury CCT LED  
/OCTO Options



446-448

LED Non-Corrosive  
/OCTO Options



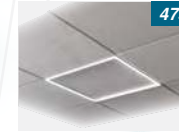
453-454

LED Batten  
/OCTO Options



473

Oxford LED Surface  
Linear /OCTO Options



475

Spektrum LED CCT  
Frame /OCTO Options



476-483

LED Recessed Panel  
/OCTO Options



487

Lota LED CCT Troffer  
/OCTO Options



489

Venus LED Indirect  
/OCTO Options



490

Neptune LED CCT  
Troffer /OCTO Options

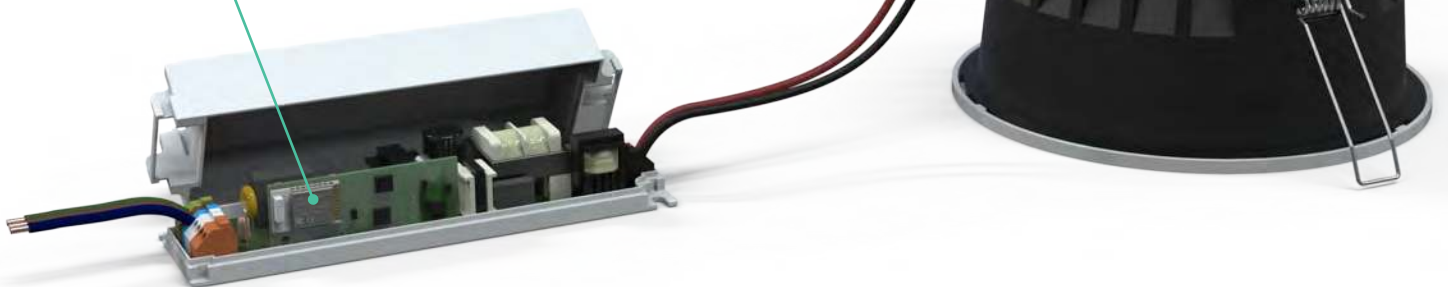


491

Pluto LED  
/OCTO Options

## OCTO Integrated

All listed products above come complete with LED drivers that have OCTO embedded into the circuit of the driver with control via our BLE system. This allows each luminaire to have individual or collective control via any given trigger such as switches, PIR's or scene settings that are within the same mesh network. Ideal for any given commercial / industrial application that requires wireless control and opens up the vast options and functionality available through the OCTO smart system.





# /OCTO - Benefits



## Benefits for Specifier

- Simple configuration
- Define luminaire properties
- Allocate luminaire properties wirelessly

Specifier



## Benefits for Installer

- Commission, programme and control luminaires intuitively via the OCTO App
- Locate and assign luminaires wirelessly with ease
- Adapt the system quickly
- Quicker retrofit and new installation



OCTO Guru/Master  
(Commissioning)



## Benefits for End User



- Simple updates
- Reduce power consumption
- Ensure multi-functional use for rooms
- Individual wireless light adjustments
- Individual operation for luminaires
- Simple graphic luminaire selection
- Intuitively adjust the light shade and intensity







# | DISPLAY

## Project

Sixpad - Westfield, UK



Unity 80 LED p78



Unity 150 DHP LED p86



Unity 150 LED p95  
Wallwash



Cobra LED Strip p236

# Display

---



64

*OCTO Smart downlight*



66

*LED Downlights*



122

*LED Emergency Downlights*



133

*LED and GU10  
Surface Downlights*



140

*Fire Rated Downlights*



148

*Die-Cast Downlights*



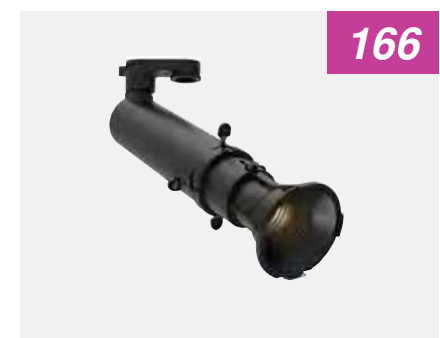
160

*Downlight Accessories*



162

*Unity Mini 24V  
Adjustable Trackspot*



166

*Single Circuit  
Track and Surface*



190

*Three Circuit  
Track and Surface*



205

*Pendants*



214

*Wall Lights*



222

*LED Drivers  
and Transformers*



230

*LED Flexible and Rigid  
Strips*



244

*Linklights and Cabinet  
fittings*



250

*Bathroom Fixtures*



*Designed to*  
***Deliver...***



reddot award  
winner lighting design



### Low Ceiling Voids?

180° flip feature allows for ceiling void installations as low as 65mm



### Ceiling Joist Obstruction?

280° housing rotation allows for easy installation



**Part B**  
**Test Nos.**  
30 Minutes Chilt/A/12229  
60 Minutes Chilt/A/12230  
90 Minutes Chilt/A/12231



**Part C**  
**Report Reference No.**  
BRE/296458



**Part E**  
**Report Reference No.**  
BRE/296459

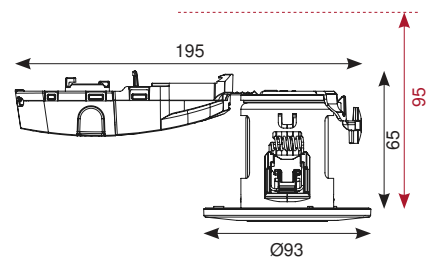
# Orbio 360 Downlight

AC LED (No Driver Required)



Matt White Bezel fitted as standard

- AC230V IP65 LED fire rated downlight for domestic and commercial applications
  - Supplied with matt white bezel as standard
  - Innovative flexible installation features
  - Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
  - Protective polycarbonate spring clip covers for ceiling protection and ease of installation
  - Up to 92 Lumens per watt exceeds the requirement of Part L and Part L2 of Building Regulations
  - LED lifespan L70 50,000 hours
- \* 7 Year Warranty applies to fittings registered online (5 Year Warranty for unregistered fittings)



95mm Overall Height with top housing attached to main body



## LED Information

Total (Watts)	8W
Lumens Delivered	
Cool White	737lm
Warm White	654lm
Lm/W Cool White	92lm
Lm/W Warm White	82lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-40°C to 45°C

Code	Lamp	Description
AORBLEDCW	LED	8W - Cool White
AORBLEDDW	LED	8W - Warm White





# Orbio 360 Accessories

- Bespoke dimmer suitable for use with Orbio360 and Prism FRD products only
- Suitable for controlling from 1 to 20 Orbio360 fittings
- Dimming range 12% to 100% light output
- Can be installed onto most standard style dimmer plates
- Suitable for installation with MK grid system - adaptor plate and control knob included
- Suitable for installation into 25mm metal box or surface pattress



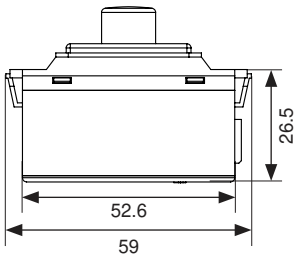
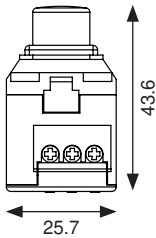
AORBLED/DIMMER



ALEDCP  
(Matt White, Chrome and Satin Chrome)



AORBLEDZ/BR AORBLEDZ/CH AORBLEDZ/SC AORBLEDZ/AB AORBLEDZ/BLC



AORBLEDZSQ/MW



AORBLEDZSQ/CH



AORBLEDZSQ/AB



AORBLEDZSQ/BR



AORBLEDZSQ/SC



AORBLEDZSQ/BLC

- Optional removeable twist-on, twist-off aluminium die-cast bezels with five different finishes



- Ansell Converter Plate allows retrofit application in ceilings with cutout between 76mm and 140mm diameter

Code	Description
<b>AORBLED/DIMMER</b>	2 Way Push/Push
<b>AORBLEDZ/BR</b>	Brass Trim Bezel
<b>AORBLEDZ/CH</b>	Chrome Gloss Trim Bezel
<b>AORBLEDZ/SC</b>	Satin Chrome Trim Bezel
<b>AORBLEDZ/AB</b>	Antique Brass Trim Bezel
<b>AORBLEDZ/BLC</b>	Black Chrome Trim Bezel
<b>AORBLEDZ/SQ/MW</b>	Matt White Square Trim Bezel
<b>AORBLEDZ/SQ/BR</b>	Brass Square Trim Bezel
<b>AORBLEDZ/SQ/CH</b>	Chrome Gloss Square Trim Bezel
<b>AORBLEDZ/SQ/SC</b>	Satin Chrome Square Trim Bezel
<b>AORBLEDZ/SQ/AB</b>	Antique Brass Square Trim Bezel
<b>AORBLEDZ/SQ/BLC</b>	Black Chrome Square Trim Bezel
<b>ALEDZCP/MW</b>	Matt White Converter Kit
<b>ALEDZCP/CH</b>	Chrome Converter Kit
<b>ALEDZCP/SC</b>	Satin Chrome Converter Kit



# Prism Pro Wiz FRD

Supplied c/w Remote Driver

64

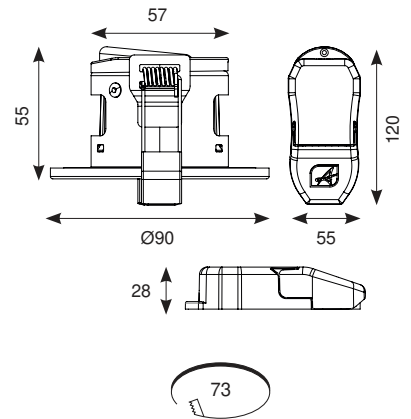


OCTO

WIZ  
CONNECTED



Easy wiring access



Matt White Bezel fitted as standard

- 220-240V IP65 LED Wiz enabled tunable white Fire Rated Downlight
- Supplied with matt white bezel as standard
- Tunable between 2700K - 6000K via Wiz App and voice control
- Remote driver with 2x1.5mm<sup>2</sup> + CPC push-fit loop-in, loop-out terminals provide an easy and efficient installation
- Detachable LED driver for fast fix install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

Code	Lamp	Description
APRILEDP/OCTOW	LED	8W - Tunable White

### LED Information

Total (Watts)	8W
Lumens Delivered	
2700K ↔ 6000K	
573lm ↔ 547lm	
Lm/W	
2700K ↔ 6000K	
82lm ↔ 78lm	
Beam Angle	60°
CRI	Ra 80
CCT	Tunable White
Input	230V
Hertz	50/60Hz
Operating Temp	-5°C to 25°C





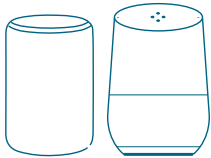
OCTO

WIZ  
CONNECTED



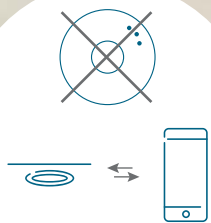
### WiFi and Bluetooth

Two protocols for versatility with a range of accessories and commissioning. Added reliability if one protocol connection is lost the other will allow normal use.



### Advance Voice Control

Full voice control with smart speakers and now with Google Assistant and Siri Shortcuts on iOS 12, have full control of your lights by talking to any smartphone.



### No Hub Needed

32-bit MCU chip provides smarter automation, as WIZ lighting is directly, constantly and reliably connected to the cloud there is no dependency on a hub or bridge.



# Prism Pro LED Fire Rated Downlight

Supplied c/w Remote Driver



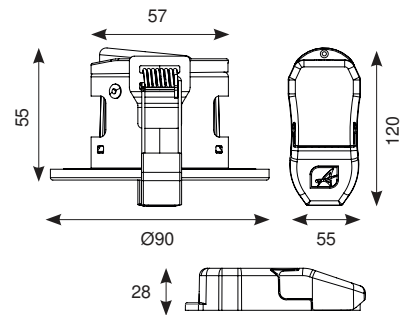
- 220-240V IP65 LED Fire Rated Downlight
- Remote driver with 2x1.5mm<sup>2</sup> + CPC loop-in, loop-out colour coded push fit piano terminals provide an easy and efficient installation
- Detachable LED driver for fast fix install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours



Matt White Bezel fitted as standard



Easy wiring access



Chrome Trim Bezel Accessory



Satin Chrome Trim Bezel Accessory



Matt Black Trim Bezel Accessory



### LED Information

Total (Watts)	6W
Lumens Delivered	
Cool White	577lm
Warm White	532lm
Lm/W Cool White	96lm
Lm/W Warm White	89lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-5°C to 25°C

	Code	Lamp	Description
	<b>APRILEDP/CW</b>	LED	6W - Cool White
	<b>APRILEDP/WW</b>	LED	6W - Warm White
<b>Trim Bezels</b>	<b>APRILEDPBZ/CH</b>		Chrome Trim Bezel
	<b>APRILEDPBZ/SC</b>		Satin Chrome Trim Bezel
	<b>APRILEDPBZ/BLK</b>		Matt Black Trim Bezel
<b>Dimmer</b>	<b>AORBLEDDIMMER</b>		2 Way Push/Push



# PRISM<sup>TM</sup>

FRD  
PRO

Ultra shallow fixture height for shallow ceiling void

Protective covers that aid installation and preserve intended mounting surface

Unique patented intumescent disc

High efficiency / long life LED engine

Twistlock bezel available in single colour or plated finishes

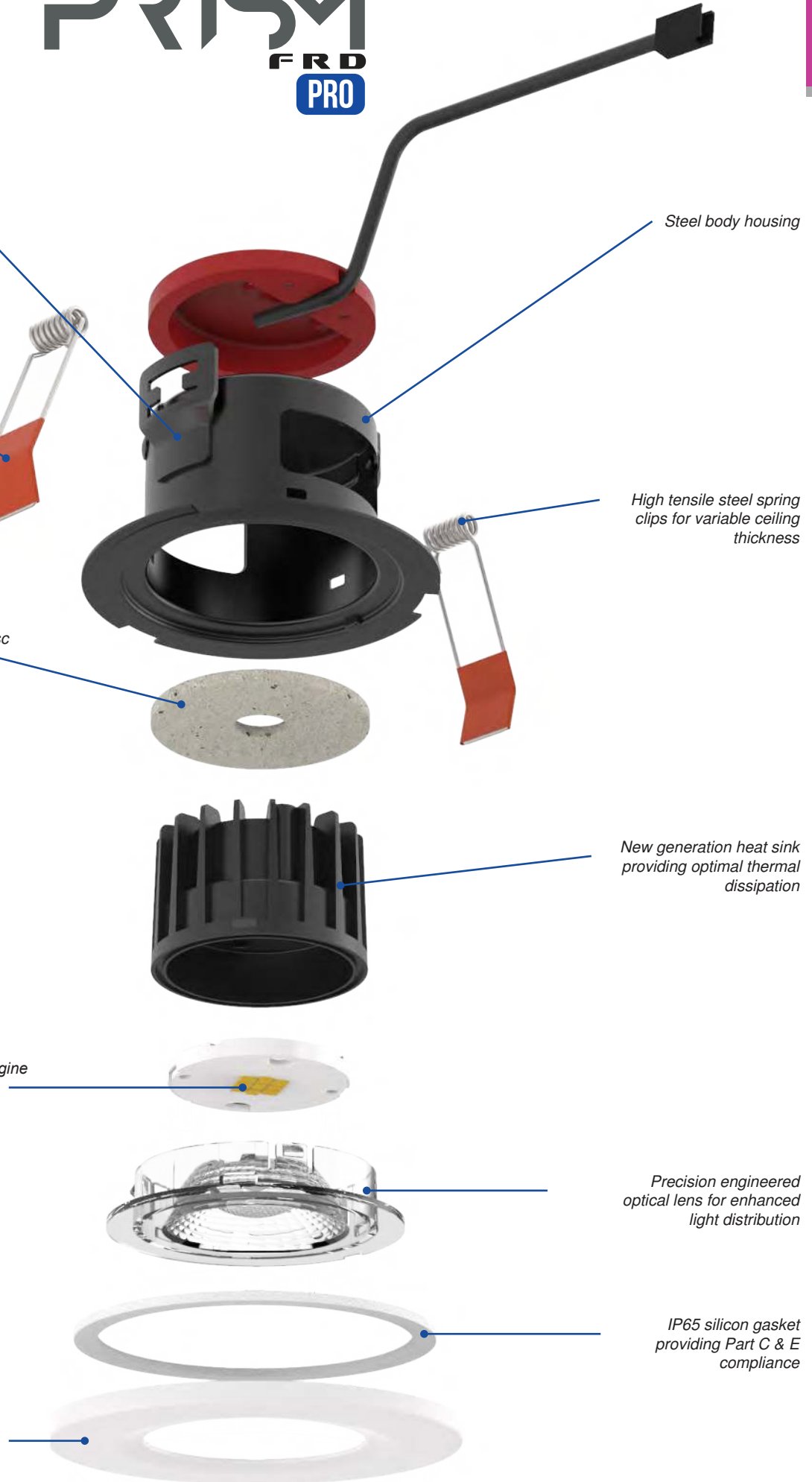
Steel body housing

High tensile steel spring clips for variable ceiling thickness

New generation heat sink providing optimal thermal dissipation

Precision engineered optical lens for enhanced light distribution

IP65 silicon gasket providing Part C & E compliance



# Prism Pro LED Fire Rated Downlight CCT Pack

Supplied c/w Remote Driver and Bezel Accessories



Matt White Bezel fitted as standard



Easy wiring access



Chrome Trim Bezel Accessory



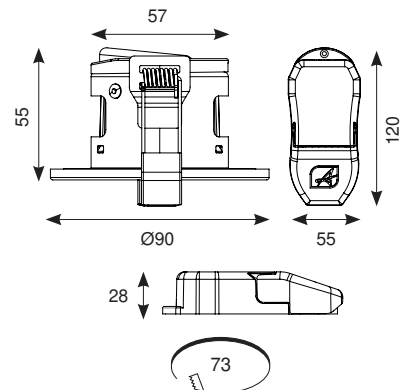
Colour temperature select switch with 4 colour options 2700K, 3000K, 4000K and 6000K



Matt Black Trim Bezel Accessory



Satin Chrome Trim Bezel Accessory



### LED Information

Total (Watts)	7W
Lumens Delivered	
2700K	573lm
4000K	608lm
3000K	589lm
6000K	547lm
Lm/W	
2700K	82lm
4000K	87lm
3000K	84lm
6000K	78lm
Beam Angle	60°
CRI	Ra 80
CCT	
2700K	4000K
3000K	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	-5°C to 25°C

- 220-240V IP65 LED 4 CCT Selectable Fire Rated Downlight
- Supplied with 4 bezels as standard:- matt white, chrome, satin chrome and matt black bezels
- Remote driver with 2x1.5mm<sup>2</sup> + CPC loop-in, loop-out colour coded push fit piano terminals provide an easy and efficient installation• Detachable LED driver for fast fix install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

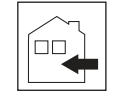
Code	Lamp	Description
APRILEDP/CCT	LED	7W - Warm White/ Cool White/ Daylight
AORBLEDDIMMER		2 Way Push/Push



# Prism Pro LED Fire Rated CCT Gimbal

Supplied c/w Remote Driver

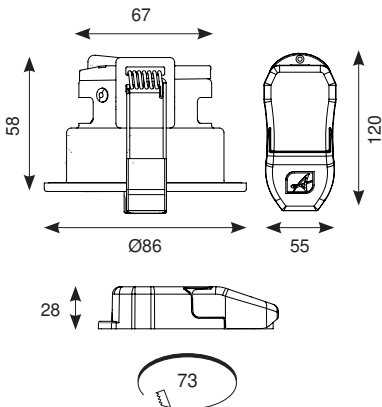
- 220-240V LED 4 CCT Selectable Fire Rated Gimbal
- 30° tilt angle
- Remote driver with 2x1.5mm<sup>2</sup> + CPC loop-in, loop-out colour coded push fit piano terminals provide an easy and efficient installation
- Detachable LED driver for fast fix install
- Low profile design and remote driver allow installation into shallow ceiling voids
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours



Easy wiring access



Colour temperature select switch with 4 colour options 2700K, 3000K, 4000K and 6000K



APRILEDP/G/MW  
(2700K - Warm White)



APRILEDP/G/CH  
(3000K - Warm White)



APRILEDP/G/SC  
(4000K - Cool White)



APRILEDP/G/BLK  
(6000K - Daylight)

## LED Information

Total (Watts)	7W
Lumens Delivered	
2700K	620lm
4000K	698lm
3000K	655lm
6000K	659lm
Lm/W	
2700K	89lm
4000K	100lm
3000K	94lm
6000K	94lm
Beam Angle	60°
CRI	Ra 80
CCT	
2700K	4000K
3000K	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	-5°C to 25°C

Code	Lamp	Description
APRILEDP/G/MW	LED	7W - Warm White/ Cool White/ Daylight - Matt White
APRILEDP/G/CH	LED	7W - Warm White/ Cool White/ Daylight - Chrome
APRILEDP/G/SC	LED	7W - Warm White/ Cool White/ Daylight - Satin Chrome
APRILEDP/G/BLK	LED	7W - Warm White/ Cool White/ Daylight - Black
AORBLED/DIMMER		2 Way Push/Push



Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Prism LED Fire Rated Downlight

Supplied c/w Integral Driver



Easy wiring access

- LED dimmable fire-rated downlight for domestic applications
- Supplied with matt white bezel as standard
- Integral driver with push-fit loop-in, loop-out terminals for ease and speed of installation
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 60,000 hours

*Dimming - for best compatibility the following products are recommended :-*

**Ansell**    **AORBLEDDIMMER**  
**Zano**     **ZGRID500**  
**Varilight** **V-PRO**



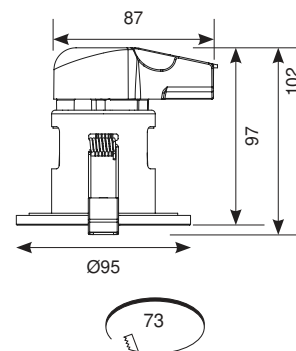
Matt White Bezel fitted as standard



Chrome Trim Bezel Accessory



Satin Chrome Trim Bezel Accessory



### LED Information

Total (Watts)	7W
Lumens Delivered	
Cool White	715lm
Warm White	712lm
Lm/W Cool White	102lm
Lm/W Warm White	102lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 25°C

Code	Lamp	Description
<b>APRILED/CW</b>	LED	7W - Cool White
<b>APRILED/WW</b>	LED	7W - Warm White
<b>Trim Bezels</b>	<b>APRILEDDBZ/CH</b>	Chrome Trim Bezel
	<b>APRILEDDBZ/SC</b>	Satin Chrome Trim Bezel
	<b>AORBLEDDIMMER</b>	2 Way Push/Push





Fast push-fit loop-in, loop-out termination for 2x1.5mm twin and earth cable



Ergonomic moulded terminal housing

Steel body housing

Intumescent fire barrier

Unique heat sink design for optimum heat dissipation

Sturdy spring clips with protective covers

Optimum contact between heatsink and LED for maximum thermal performance

High efficiency LED light engine

Precision engineered reflector for enhanced light distribution

IP65 silicon seal  
Part C and E compliant

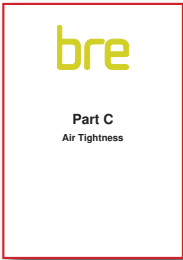
Acoustic cushion

Aluminium die-cast secure screw on bezel with matt white paint finish or plated finishes

## Product Certification



**Part B**  
Test Nos.  
30 Minutes - Exova WF408531  
60 Minutes - Exova WF408527  
90 Minutes - Exova WF408530



**Part C**  
P108657-1000



**Part E**  
P17011-1000



# Prism LED Fire Rated Downlight CCT Pack

Supplied c/w Integral Driver and Bezel Accessories



Easy wiring access



Colour temperature select switch

- LED dimmable fire-rated downlight for domestic applications
- Supplied with 3 bezels as standard:- matt white, chrome and satin chrome bezels
- Integrated switch allows installer the choice of 3000K, 4000K or 6000K colour temperature options
- Integral driver with push-fit loop-in, loop-out terminals for ease and speed of installation
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 40,000 hours

Dimming - for best compatibility the following products are recommended :-  
**Ansell AORBLED/DIMMER**  
**Zano ZGRID500**  
**Varilight V-PRO**



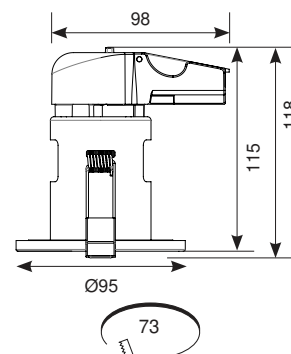
Matt White Bezel fitted as standard



Chrome Trim Bezel supplied as standard



Satin Chrome Trim Bezel supplied as standard



### LED Information

Total (Watts)	8W
Lumens Delivered	
Cool White	567lm
Warm White	625lm
Daylight	675lm
Lm/W Cool White	67lm
Lm/W Warm White	75lm
Lm/W Daylight	85lm
Beam Angle	60°
CRI	Ra 80
CCT	3000K
	4000K
	6000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 25°C

Code	Lamp	Description
APRILED/CCTPACK	LED	8W - Cool White/ Warm White/ Daylight





# One Product... Nine Choices

The Prism Fire Rated Downlight pack includes 3 bezel options (matt white, chrome and satin chrome), but also the integrated switch allows the installer to select options of 3000K, 4000K and 6000K colour temperatures

6000K

4000K

3000K



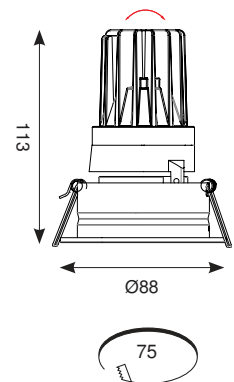
# Unity GC Pro LED Adjustable Downlight

Supplied c/w Remote Driver



Powered by  
**HEP**

- Compact high performance professional adjustable downlight
- Deep cut-off angle for glare control and comfort
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Comparable performance to 50W halogen
- 30° tilt angle
- Mirror finished anodized reflector for optimum light control
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



30° tilt angle adjustability

### LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	365lm
Warm White	317lm
Lm/W Cool White	37lm
Lm/W Warm White	32lm
Beam Angle	33°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
AULEDGCP/CW	LED	10W - Cool White
AULEDGCP/WW	LED	10W - Warm White

/OCTO      OCTO Smart Control



Aluminium heatsink for optimum thermal management to ensure long lifetime cycle

High quality OSRAM LED Light engine

Mirror finished anodized reflector optimises light distribution providing an excellent and uniform output

Anti-glare diffuser provides visual comfort and optimum light distribution

Open housing construction allows constant air flow from heatsink providing optimal thermal performance and maximum LED lifetime

Sturdy spring clips provide tight and lasting position once installed

Protective spring clip covers for ceiling protection and ease of installation

Matt white bezel supplied provides sleek and modern appearance



# Unity GC Pro LED Fixed Downlight

Supplied c/w Remote Driver

76



AULEDGCP1/CW

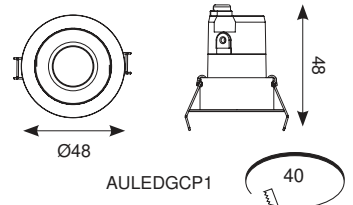


AULEDGCP2/CW

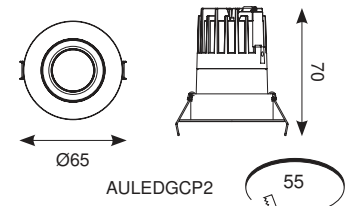


AULEDGCP3/CW

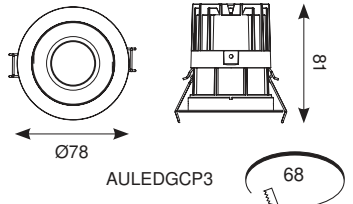
- Compact high performance professional downlight
- Deep cut-off angle for glare control and comfort
- Die-cast aluminium construction, powder coated
- 3W exceeds performance of 12W Halogen
- 8W comparable performance to 35W halogen
- 15W exceeds performance of 50W halogen
- Mirror finished anodized reflector for optimum light control
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Non-dimmable



AULEDGCP1



AULEDGCP2



AULEDGCP3

Code	Lamp	Description
AULEDGCP1/CW	LED	3W - Cool White
AULEDGCP1/WW	LED	3W - Warm White
AULEDGCP2/CW	LED	8W - Cool White
AULEDGCP2/WW	LED	8W - Warm White
AULEDGCP3/CW	LED	15W - Cool White
AULEDGCP3/WW	LED	15W - Warm White
/OCTO	OCTO Smart Control	

## LED Information

	Cool White	Warm White
Total (Watts)	3W	8W
	15W	
Lumens Delivered	121lm	113lm
	262lm	252lm
	629lm	586lm
Lm/W 3W	40lm	38lm
Lm/W 8W	33lm	32lm
Lm/W 15W	42lm	39lm
Beam Angle	36°	
CRI	Ra 90	
CCT	4000K	3000K
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 25°C	



*Sturdy spring clips provide tight and lasting position once installed*

*Aluminium heatsink for optimum thermal management to ensure long lifetime cycle*

*Protective spring clip covers for ceiling protection and ease of installation*

*High quality LED light engine*

*Mirror finished anodized reflector optimises light distribution providing an excellent and uniform output*

*Anti-glare diffuser provides visual comfort and optimum light distribution*

*Specially designed baffle construction with recessed LED module and diffuser provide a steep cut-off angle ensuring maximum glare control and visual comfort*

*Slim profile matt white bezel provides sleek and modern appearance*



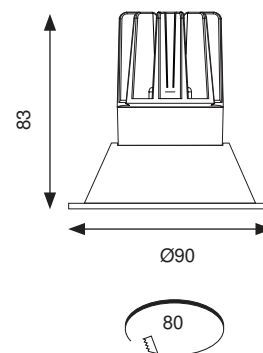
# Unity 80 LED Downlight

Supplied c/w Remote Driver



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**TRIDONIC**  
▼enlightening your ideas

- Compact high performance professional downlight
- IP44 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Exceeds performance of 2 x 18W PLC
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



Code	Lamp	Description
<b>AULED80D</b>	LED	15W - Cool White
<b>AULED80D/WW</b>	LED	15W - Warm White

<b>/M3</b>	Emergency
<b>/OCTO</b>	OCTO Smart Control
<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

### LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	1056lm
Warm White	896lm
Lm/W Cool White	70lm
Lm/W Warm White	60lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C







**Project - Private Residential**  
Abersoch, UK

# Unity 80 LED Gimbal

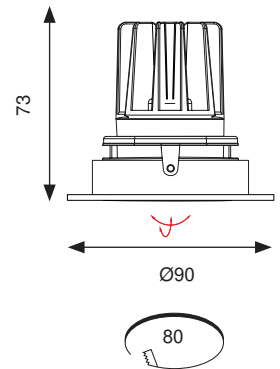
Supplied c/w Remote Driver

80



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- Compact high performance professional adjustable downlight
- 30° tilt angle
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Exceeds performance of 2x18W PLC
- Mirror finish anodized reflector
- Anti glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



### LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	1056lm
Warm White	896lm
Lm/W Cool White	70lm
Lm/W Warm White	60lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
AULED80GIM	LED	15W - Cool White
AULED80GIM/WW	LED	15W - Warm White

Options		
/M3		Emergency
/OCTO		OCTO Smart Control
/DD		Digital Dimming (DD1/DD2/DD3/DD4)





**Project - Volvo Garage**  
Kildare, Ireland



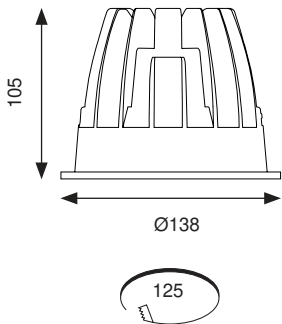
**Project - Ocean BMW Garage**  
Falmouth, UK

# Unity 125 LED Downlight

Supplied c/w Remote Driver



- Compact high performance professional downlight
- IP44 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Performance comparable to 2x26W PLC
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



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## LED Information

Total (Watts)	21W
Lumens Delivered	
Cool White	1521lm
Warm White	1386lm
Lm/W Cool White	72lm
Lm/W Warm White	66lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>AULED125D</b>	LED	21W - Cool White
<b>AULED125D/WW</b>	LED	21W - Warm White

Options		
<b>/M3</b>		Emergency
<b>/OCTO</b>		OCTO Smart Control
<b>/DD</b>		Digital Dimming (DD1/DD2/DD3/DD4)



Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750

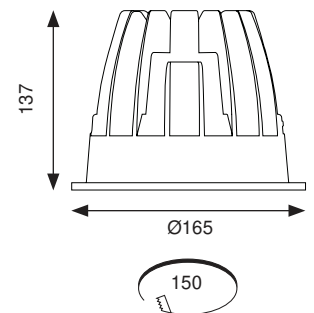


# Unity 150 LED Downlight

Supplied c/w Remote Driver



- Compact high performance professional downlight
- IP44 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Performance comparable to 2x42W PLC / 70W HQI
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



Code	Lamp	Description
<b>AULED150D</b>	LED	37W - Cool White
<b>AULED150D/WW</b>	LED	37W - Warm White

Options		
<b>/M3</b>		Emergency
<b>/OCTO</b>		OCTO Smart Control
<b>/DD</b>		Digital Dimming (DD1/DD2/DD3/DD4)

### LED Information

Total (Watts)	37W
Lumens Delivered	
Cool White	3254lm
Warm White	2870lm
Lm/W Cool White	88lm
Lm/W Warm White	78lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





Ocean Falmouth

Model: i3s (100k miles warranty)  
Price: £24,995  
Range: 100 miles  
0-100: 7.3 seconds  
Power: 150hp  
Emission: 0g/km  
Warranty: 3 years / 100,000 miles  
Includes: 3 years / 100,000 miles warranty with complete peace of mind for the first 3 years

Checklist based on 100k miles

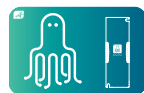
If you are the first price of this car including parts of the car

**HM Govern Car Grant included**

**Project - Ocean BMW Garage**  
Falmouth, UK

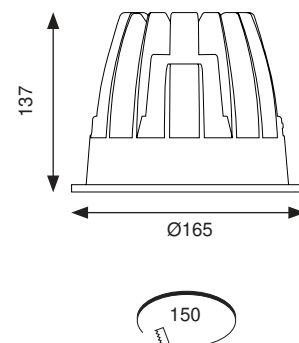
# Unity 150 DHP LED Downlight

Supplied c/w Remote Driver



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- Compact high performance professional downlight
- IP44 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Exceeds performance of 100W HQI
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



Code	Lamp	Description
AULED150DHP	LED	41W - Cool White

Options		
/M3		Emergency
/OCTO		OCTO Smart Control
/DD		Digital Dimming (DD1/DD2/DD3/DD4)

### LED Information

Total (Watts)	41W
Lumens Delivered	3900lm
Lm/W	95lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



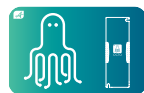




**Project - Sixpad**  
London, UK

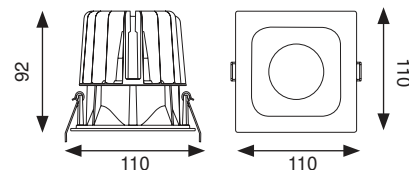
# Unity 100 Square LED Downlight

Supplied c/w Remote Driver



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- Compact high performance professional downlight
- Circular hole cut-out for ease of installation and alignment
- IP54 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Exceeds performance of 2x18W PLC
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



### LED Information

Total (Watts)	14W
Lumens Delivered	1152lm
Lm/W	82lm
Beam Angle	57°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
AUSQLED100D/CW	LED	14W - Cool White

Options		
/M3		Emergency
/OCTO		OCTO Smart Control
/DD		Digital Dimming (DD1/DD2/DD3/DD4)

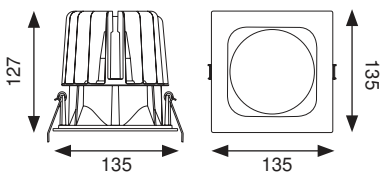


# Unity 125 Square LED Downlight

Supplied c/w Remote Driver



- Compact high performance professional downlight
- Circular hole cut-out for ease of installation and alignment
- IP54 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Performance comparable to 70W HQI
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



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## Circular Cut-out



Circular cut-out for ease of installation

### LED Information

Total (Watts)	29W
Lumens Delivered	2639lm
Lm/W	91lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
AUSQLED125D/CW	LED	29W - Cool White

Options	Description
/M3	Emergency
/OCTO	OCTO Smart Control
/DD	Digital Dimming (DD1/DD2/DD3/DD4)

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Unity 150 Square LED Downlight

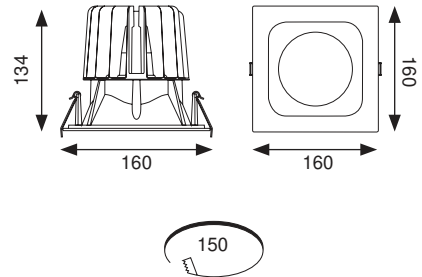
Supplied c/w Remote Driver



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- Compact high performance professional downlight
- Circular hole cut-out for ease of installation and alignment
- IP54 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Performance comparable to 70W HQI
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



Code	Lamp	Description
AUSQLED150DHP/CW	LED	41W - Cool White

Options		
/M3		Emergency
/OCTO		OCTO Smart Control
/DD		Digital Dimming (DD1/DD2/DD3/DD4)

### LED Information

Total (Watts)	41W
Lumens Delivered	3775lm
Lm/W	92lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

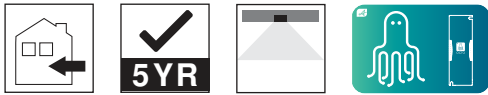




**Project - Commercial Development**  
Golborne, UK

# Unity 100 LED Wallwash

Supplied c/w Remote Driver

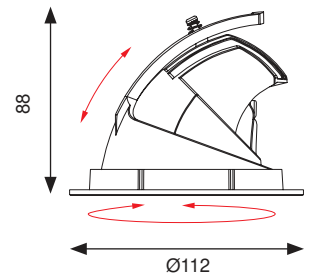


reddot award  
winner lighting design

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- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Exceeds performance of 100W halogen
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours



### LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	1041lm
Warm White	896lm
Lm/W Cool White	74lm
Lm/W Warm White	60lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
AULED100WW	LED	15W - Cool White
AULED100WW/WW	LED	15W - Warm White

Options	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)







**Project - Paper Assist**  
*Dublin, Ireland*



# Unity 150 LED Wallwash

Supplied c/w Remote Driver

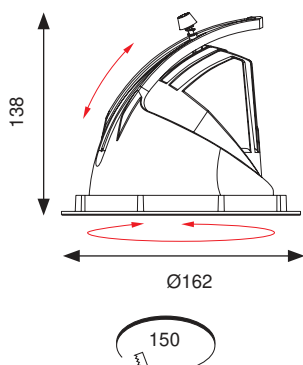


- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Comparable performance to 70W HQI
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours



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### LED Information

Total (Watts)	28W
Lumens Delivered	
Cool White	2699lm
Warm White	2497lm
Lm/W Cool White	93lm
Lm/W Warm White	86lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



### Angle Variant Options



Code	Lamp	Description
<b>AULED150WW</b>	LED	28W - Cool White
<b>AULED150WW/WW</b>	LED	28W - Warm White

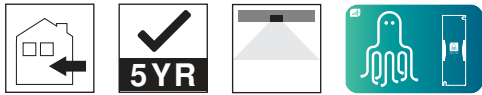
<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Unity 175 LED Wallwash

Supplied c/w Remote Driver

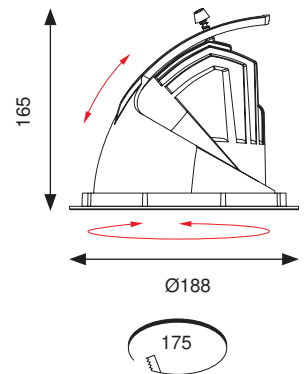


reddot award  
winner lighting design

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- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Comparable performance to 100W HQI
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours



**LED Information**

Total (Watts)	35W
Lumens Delivered	
Cool White	3239lm
Warm White	2887lm
Lm/W Cool White	88lm
Lm/W Warm White	78lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

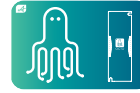
Code	Lamp	Description
<b>AULED175WW</b>	LED	35W - Cool White
<b>AULED175WW/WW</b>	LED	35W - Warm White

<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)



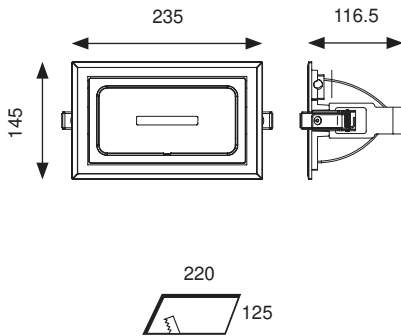
# Unity Rectangular LED Wallwash

Supplied c/w Remote Driver



- Adjustable rectangular recessed downlight with 65° tilt angle
- Die-cast aluminium body and heatsink for efficient thermal management
- Exceeds performance of 70W HQI
- Energy saving retrofit replacement for existing HQI fittings
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours

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## LED Information

Total (Watts)	35W
Lumens Delivered	3065lm
Lm/W	85lm
Beam Angle	110°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
<b>AULEDRECWW</b>	LED	35W - Cool White
<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750





**Project - Commercial Development**  
Golborne, UK

# Unity S and R Retractable LED Downlights

Supplied c/w Remote Driver

- Recessed adjustable downlight
- Retractable head design allows for a range of installation applications
- Full 360° head rotation and 90° tilting capability
- Exceeds performance of 50W AR111 lamp
- Black trim provides excellent glare control
- Steel housing with die-cast aluminium body for excellent thermal management
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours

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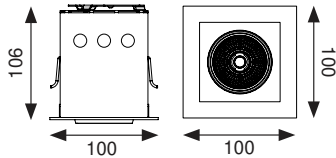
AULED1/SMP



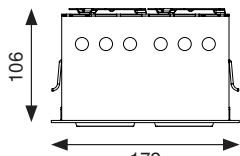
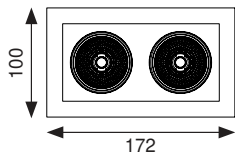
Fully retractable head with 360° rotation and 90° tilting capability



AULED2/RMP



AULED1/SMP  
90



AULED2/RMP  
158



## LED Information

Total (Watts)	
Square	15W
Rectangular	2 x 15W
Lumens Delivered	
Square	736lm
Rectangular	2 x 736lm
Lm/W	49lm
Beam Angle	45°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50Hz/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>AULED1/SMP</b>	LED	15W - Cool White
<b>AULED2/RMP</b>	LED	2 x 15W - Cool White

<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)



Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



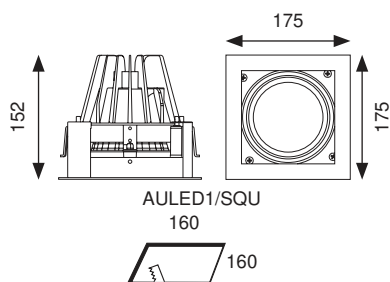
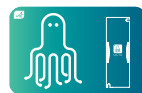


**Project - Commercial Development**  
Golborne, UK

# Unity S and R LED Downlights

Supplied c/w Remote Driver

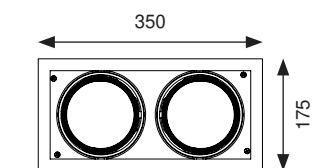
- Recessed adjustable downlight
- Fully adjustable tilt angle 30° on two axis
- Comparable performance to 50W HQI
- Black trim provides excellent glare control
- Steel housing with die-cast aluminium body for good thermal management
- Remote driver with plug and play connection
- LED lifespan L80 50,000 hours



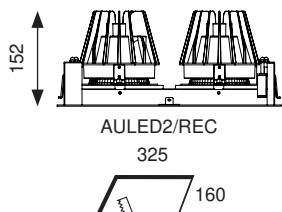
AULED1/SQU  
160



AULED1/SQU



AULED2/REC  
325



AULED2/REC

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## LED Information

<b>Total (Watts)</b>	
Square	37W
Rectangular	2 x 37W
<b>Lumens Delivered</b>	
Square	3239lm
Rectangular	2 x 3239lm
Lm/W	88lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
<b>AULED1/SQU</b>	LED	37W - Cool White
<b>AULED2/REC</b>	LED	2 x 37W - Cool White

Options	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)

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# Galaxy CCT LED Downlight

Supplied c/w Remote Driver

102

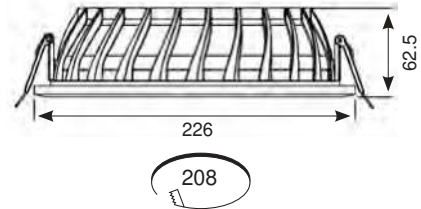


AGALED/1/CCT



AGALED/1/CCT  
with drop glass attachment installed

- Compact IP65 LED Downlight which outperforms twin 18W and 26W PLC lamp variants
- One product provides both 3000K and 4000K colour temperature options
- Cut-out dimensions suitable to replace most PLC downlights
- Fitting and driver pre-wired with ST18 connectors
- Faceted reflector and optical fresnel lens provides outstanding performance, uniformity and glare control
- Removable twist on, twist off bezel provides option of utilising alternative bezel and drop glass accessories
- Dimmable and Emergency options
- LED lifespan L70 50,000 hours



Remote Emergency Box Dimensions  
Length 415mm, Width 145mm,  
Depth 70mm

Code	Lamp	Description
AGALED/1/CCT	LED	15W - Cool White / Warm White
AGALED/2/CCT	LED	20W - Cool White / Warm White

Options		
/M3	Emergency	
/OCTO	OCTO Smart Control	
/DD	Digital Dimming (DD1/DD2/DD3/DD4)	

Drop Glass 1	Clear outer ring with frosted centre disc
AGPL/DG1/W	c/w Trim Bezel - White

Drop Glass 3	Frosted glass halo with open centre
AGPL/DG3/W	c/w Trim Bezel - White

## LED Information

Total (Watts)	15W	20W
<b>Lumens Delivered</b>		
Cool White	1557lm	2250lm
Warm White	1484lm	2230lm
Lm/W Cool White	103lm	112lm
Lm/W Warm White	98lm	112lm
CRI	Ra 80	
CCT	3000K/4000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to 40°C	







**Project - Sixpad**  
London, UK

# Comfort LED Tunable White Downlight

Supplied c/w Remote Driver

104



- Economic high performance IP44 downlight
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- One product provides complete control of colour temperature selection, ranging between 2700K and 6500K. Colour selection achieved via the Casambi App
- Downlight design allows installation into existing hole cut-outs from 200mm to 220mm
- Emergency options available
- Polycarbonate housing with unique thermal management for durability and optimum lifespan
- LED lifespan L70 50,000 hours

## LED Information

Total (Watts)	15W
	22W 30W
Lumens Delivered	2700K ↔ 6500K
15W	1219lm ↔ 1752lm
22W	1610lm ↔ 2356lm
30W	1992lm ↔ 3014lm
Lm/W	2700K ↔ 6500K
15W	81lm ↔ 117lm
22W	73lm ↔ 107lm
30W	66lm ↔ 100lm
Beam Angle	60°
CRI	Ra 80
CCT	Tunable White
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
ACOLED2/TW/OCTO	LED	15W - Tunable White
ACOLED3/TW/OCTO	LED	22W - Tunable White
ACOLED4/TW/OCTO	LED	30W - Tunable White
/M3	Emergency	
/SM3	Self-Test emergency	
/DM3	DALI emergency	



# Complete... CCT Control

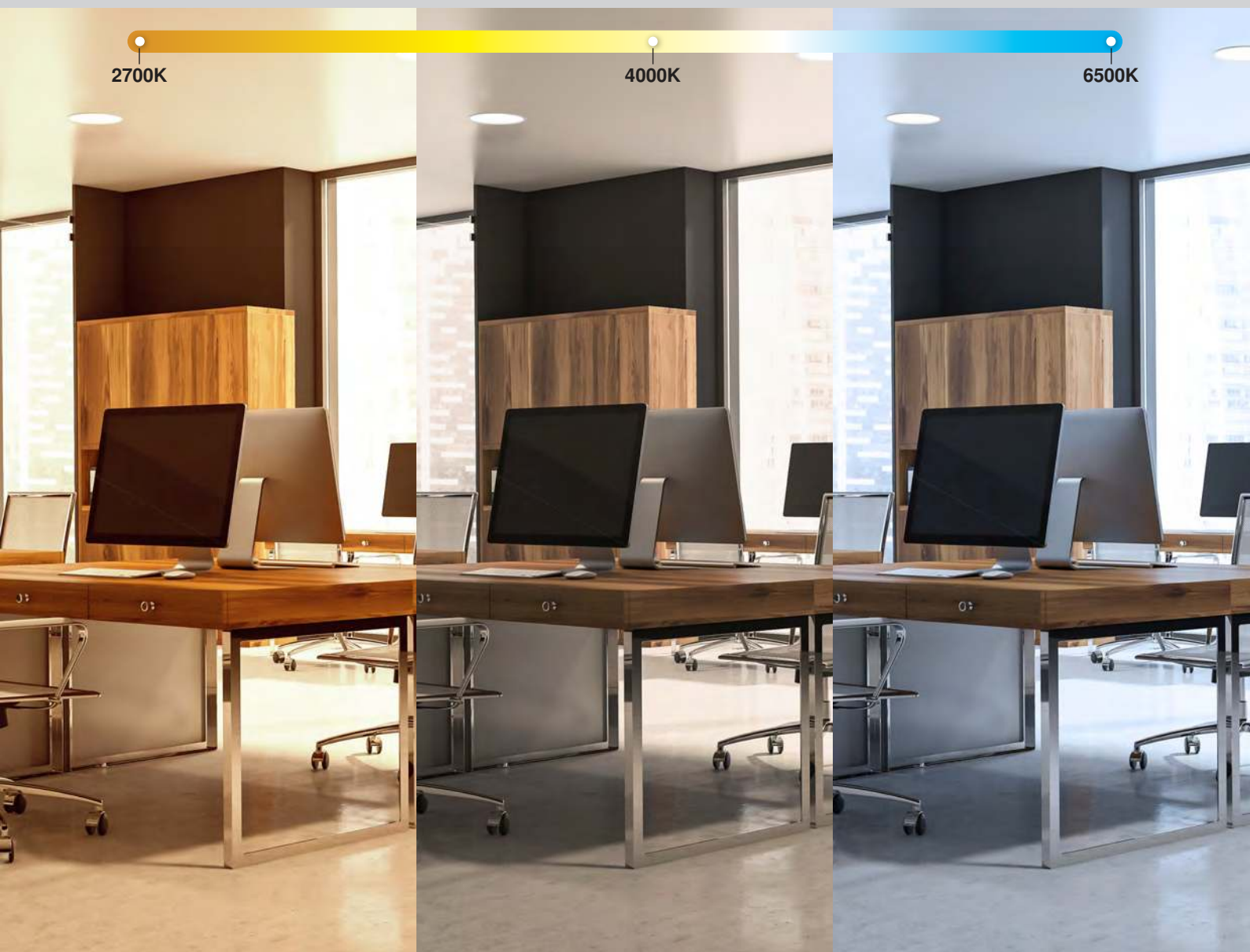
The Comfort LED Tunable White Downlight can achieve any specific colour temperature between 2700K and 6500K, ensuring suitability for a host of different application requirements. Full tunability of colour temperature controlled via the Casambi app.



2700K

4000K

6500K

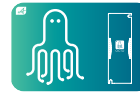




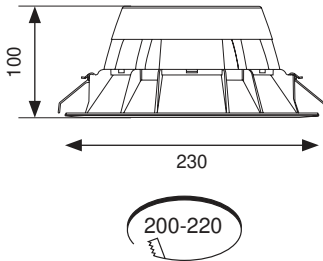
**Project - Paper Assist**  
Dublin, Ireland

# Comfort LED CCT Downlight

Supplied c/w Remote Driver



- Economic high performance IP44 downlight
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- One product provides both 3000K and 4000K colour temperature options
- Downlight design allows installation into existing hole cut-outs from 200mm to 220mm
- Polycarbonate housing with unique thermal management for durability and optimum lifespan
- LED lifespan L70 50,000 hours
- Dimmable and Emergency options



Integral CCT switch allows the installer choice of either 3000K or 4000K colour temperature options

## LED Information

Total (Watts)	15W	22W
Lumens Delivered		
Cool White	1684lm	2241lm
Warm White	1509lm	2017lm
Lm/W Cool White	112lm	102lm
Lm/W Warm White	101lm	92lm
Beam Angle	60°	
CRI	Ra 80	
CCT	4000K 3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 25°C	

Code	Lamp	Description
ACOLED1/CCT	LED	15W - Cool White / Warm White
ACOLED2/CCT	LED	22W - Cool White / Warm White

Options	/M3	Emergency
	/DM3	DALI Emergency
	/SM3	Self-test Emergency
	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)



# Comfort LED CCT HP Downlight

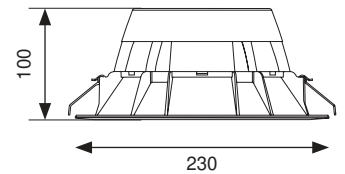
Supplied c/w Remote Driver

108



Integral CCT switch allows the installer choice of either 3000K or 4000K colour temperature options

- Economic high performance IP44 downlight
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- One product provides both 3000K and 4000K colour temperature options
- Downlight design allows installation into existing hole cut-outs from 200mm to 220mm
- Polycarbonate housing with unique thermal management for durability and optimum lifespan
- LED lifespan L70 50,000 hours
- Dimmable and Emergency options



## LED Information

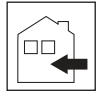
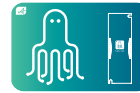
Total (Watts)	30W
Lumens Delivered	
Cool White	2789lm
Warm White	2514lm
Lm/W Cool White	93lm
Lm/W Warm White	84lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>ACOLED3/CCT</b>	LED	30W - Cool White / Warm White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/DM3</b>	DALI Emergency
	<b>/SM3</b>	Self-test Emergency
	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

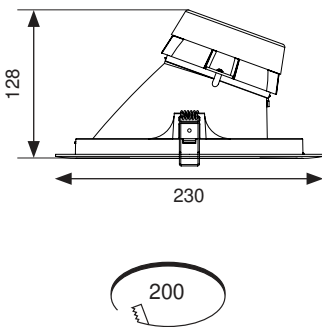


# Comfort LED Wash

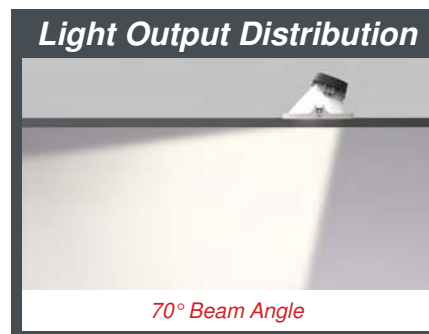
Supplied c/w Remote Driver



- Economic high performance IP44 wallwash
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- Design allows installation into existing hole-cut outs of 200mm
- Polycarbonate housing with unique thermal management for durability and optimum lifespan
- LED lifespan L70 50,000 hours



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### LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	1187lm
Warm White	1113lm
Lm/W Cool White	70lm
Lm/W Warm White	66lm
Beam Angle	70°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
<b>ACOLEDWW/CW</b>	LED	17W - Cool White
<b>ACOLEDWW/WW</b>	LED	17W - Warm White

<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

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**Project - School Campus**  
Dudley, UK

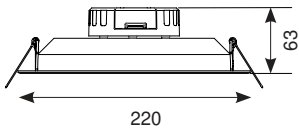


# Vega LED Downlight

Supplied c/w Integral Driver



- Economic LED replacement for higher output PLC downlights
- Low profile design with integral driver for speed of installation
- 17W LED comparable to 2x18W PLC
- 23W LED comparable to 2x26W PLC
- LED lifespan L70 60,000 hours
- Non-dimmable



AVEGLED/1/WW



Low Profile Design



AVEGLED/1/CW

## LED Information

Total (Watts)	17W	23W
Lumens Delivered		
Cool White	1435lm	1946lm
Warm White	1389lm	1860lm
Lm/W Cool White	84lm	84lm
Lm/W Warm White	82lm	83lm
Beam Angle	107°	
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-5°C to 45°C	

Code	Lamp	Description
<b>AVEGLED/1/CW</b>	LED	17W - Cool White
<b>AVEGLED/2/CW</b>	LED	23W - Cool White
<b>AVEGLED/1/WW</b>	LED	17W - Warm White
<b>AVEGLED/2/WW</b>	LED	23W - Warm White

Option	/M3	Emergency
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# Freska LED Downlight

Supplied c/w Remote Driver

112



AFRLED230/CW



AFRLED170/CW



AFRLED125/CW



Self-Test Emergency Pack

Ultra-Slim 25mm Profile Depth

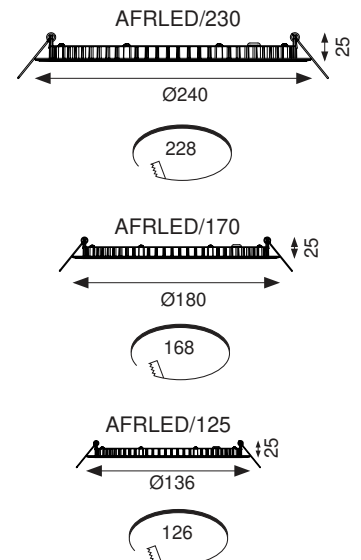
Code	Lamp	Description
AFRLED125/CW	LED	10W - Cool White
AFRLED170/CW	LED	13W - Cool White
AFRLED230/CW	LED	19W - Cool White
AFRLED125/WW	LED	10W - Warm White
AFRLED170/WW	LED	13W - Warm White
AFRLED230/WW	LED	19W - Warm White

Option	AFRLED/M3/ST	Self-Test Emergency Pack
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Accessory	ASBP/12	7.2V 3000mAh Ni-cd Replacement Battery
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- Economic ultra-slim circular LED downlight
- Ideal for use in areas with shallow ceiling void
- Remote driver with plug and play connection
- Edge lit providing excellent uniform illumination
- 10W comparable performance to 13W PLC  
13W comparable performance to 18W PLC  
19W comparable performance to 26W PLC
- LED lifespan L70 30,000 hours
- Non-dimmable

- Optional plug-in self-test emergency pack suitable for all three models



## LED Information

Total (Watts)	10W	13W	19W
Lumens Delivered			
10W	618lm	534lm	
13W	916lm	795lm	
19W	1208lm	1152lm	
Lm/W 10W	62lm	59lm	
Lm/W 13W	70lm	61lm	
Lm/W 19W	64lm	61lm	
CRI	Ra 80		
CCT	4000K 3000K		
Input	230V		
Hertz	50/60Hz		
Operating Temp	-10°C to 25°C		





**Project - Radford Mill**  
Nottingham, UK

# Lodi LED Slim Downlight

Supplied c/w Integral Driver

114



ALODLED/75/CW



ALODLED/95/WW

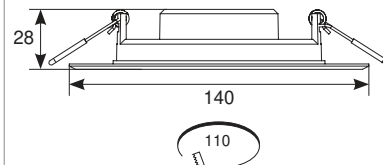
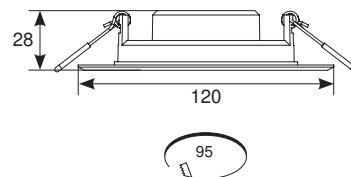
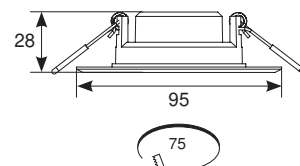


ALODLED/110/CW

Ultra-Slim 28mm Profile Depth

Code	Lamp	Description
ALODLED/75/CW	LED	4W - Cool White
ALODLED/95/CW	LED	8W - Cool White
ALODLED/110/CW	LED	11W - Cool White
ALODLED/75/WW	LED	4W - Warm White
ALODLED/95/WW	LED	8W - Warm White
ALODLED/110/WW	LED	11W - Warm White
Accessory ASLED/3NM	LED	1.5W Non-Maintained

- Economic polycarbonate circular LED downlight
- Low profile design with integral driver
- Ideal for use in areas with shallow ceiling voids
- 4W exceeds performance of 12W halogen
- 8W exceeds performance of 20W halogen
- 11W exceeds performance of 20W halogen
- Supplied pre-wired with 300mm of cable
- LED lifespan L70 25,000 hours



## LED Information

Total (Watts)	4W	8W	11W
Lumens Delivered	Cool White	Warm White	
4W	307lm	286lm	
8W	620lm	589lm	
11W	740lm	683lm	
Lm/W 4W	77lm	71lm	
Lm/W 8W	79lm	76lm	
Lm/W 11W	68lm	62lm	
Beam Angle	100°		
CRI	Ra 80		
CCT	4000K		
	3000K		
Input	220V - 240V		
Hertz	50Hz		
Operating Temp	-15°C to 25°C		



# Lodi LED Slim Downlight

Supplied c/w Integral Driver

- Economic polycarbonate circular LED downlight
- Low profile design with integral driver
- Ideal for use in areas with shallow ceiling voids
- 16W exceeds performance of 1x18W PL-C
- 22W exceeds performance of 1x26W PL-C
- 25W comparable to 1x32W PL-T
- Supplied pre-wired with 300mm of cable
- LED lifespan L70 25,000 hours



115



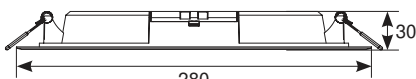
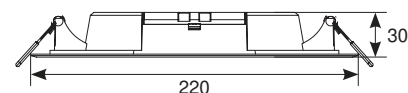
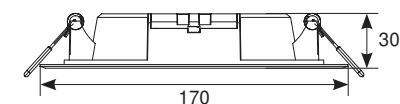
ALODLED/150/CW



ALODLED/200/WW



ALODLED/250/CW



## LED Information

Total (Watts)	16W	
	22W	
	25W	
Lumens Delivered	Cool White	Warm White
16W	1089lm	1070lm
22W	1604lm	1527lm
25W	2035lm	1953lm
Lm/W 16W	72lm	66lm
Lm/W 22W	77lm	73lm
Lm/W 25W	85lm	80lm
Beam Angle	100°	
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	220V - 240V	
Hertz	50Hz	
Operating Temp	-15°C to 25°C	

## Ultra-Slim 30mm Profile Depth

Code	Lamp	Description
<b>ALODLED/150/CW</b>	LED	16W - Cool White
<b>ALODLED/200/CW</b>	LED	22W - Cool White
<b>ALODLED/250/CW</b>	LED	25W - Cool White
<b>ALODLED/150/WW</b>	LED	16W - Warm White
<b>ALODLED/200/WW</b>	LED	22W - Warm White
<b>ALODLED/250/WW</b>	LED	25W - Warm White
<b>Accessory ASLED/3NM</b>	LED	1.5W Non-Maintained



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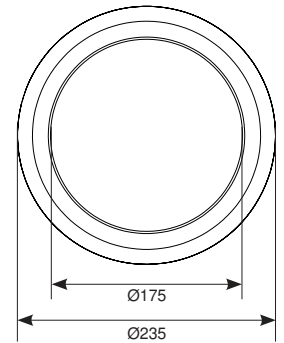
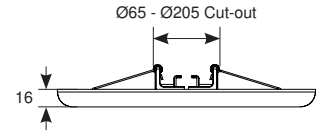
# Anzo MultiLED CCT Adjustable Downlight

Supplied c/w Integral Driver

116



- Ultra-slim adjustable LED downlight
- Integral switches for multiple wattages and selectable CCT
- Innovative bracket / spring design for variable cut-outs from 65-205mm
- Pre-wired with 300mm cable
- LED lifespan L70 54,000 hours
- Non-dimmable

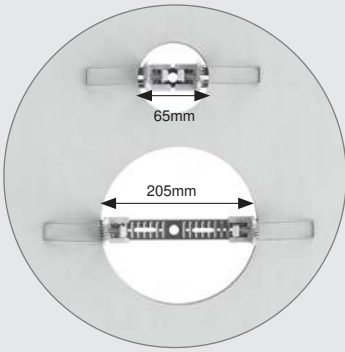


## LED Information

Total (Watts)	10W/13W/16W		
Lumens Delivered	3000K	4000K	6000K
10W	1027lm	1077lm	1045lm
13W	1309lm	1409lm	1351lm
16W	1492lm	1636lm	1555lm
Lm/W 10W	103lm	108lm	105lm
Lm/W 13W	101lm	108lm	104lm
Lm/W 16W	93lm	102lm	97lm
CRI	Ra 80		
CCT	3000K		
	4000K		
	6000K		
Input	230V		
Hertz	50Hz		
Operating Temp	-20°C to 45°C		

Code	Lamp	Description
ANZOLED/CCT	LED	10W/13W/16W - Warm White/Cool White/Daylight





## Adjustable Bracket Design

*Innovative bracket design allows installation into variable cut-out sizes between 65mm-205mm, allowing for a varied range of installation options*



## Surface Mounting Option

*Integral bracket also works as a surface mounting option. Simply disconnect from product housing and screw to the ceiling using the pre-drilled hole template guide, then using the easy twist and lock system twist the product into place*



## Easy Twist and Lock System

*Once the mounting bracket is fixed to the ceiling connect the AC mains cable and twist the product into place over the bracket using the twist and lock icon as a guide*



## Integral Wattage and CCT Selectable Switches

*Two integral switches located on the rear housing allow selection of 10W, 13W and 16W power output options. This coupled with the additional option of 3000K, 4000K and 6000K colour temperature options ensures suitability for a multitude of applications*



# Argo LED IP65 Downlight

Supplied c/w Integral Driver

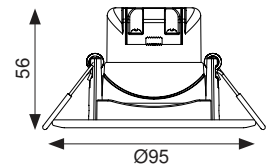
118



AARGD/CW



AARGD/WW



Chrome Trim Bezel Accessory



Satin Chrome Trim Bezel Accessory



Black Trim Bezel Accessory

## LED Information

Total (Watts)	5W
Lumens Delivered	
Cool White	438lm
Warm White	427lm
Lm/W Cool White	87lm
Lm/W Warm White	85lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K 3000K
Input	220V - 240V
Hertz	50/60Hz
Operating Temp	- 15°C to 40°C

Code	Lamp	Description
AARGD/CW	LED	5W - Cool White
AARGD/WW	LED	5W - Warm White

Accessories	Code	Description
AARGD/IP65BEZ/CH		Chrome Trim Bezel
AARGD/IP65BEZ/SC		Satin Chrome Trim Bezel
AARGD/IP65BEZ/BL		Black Trim Bezel



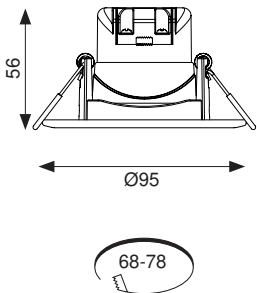


# Argo LED Gimbal

Supplied c/w Integral Driver



- Recessed polycarbonate adjustable downlight with 25° tilt angle
- Multiple uses, including general downlighting, retail, cabinets and furniture applications
- Low profile design with integral driver with loop-in, loop-out terminals for ease and speed of installation
- Exceeds performance of 35W halogen
- LED lifespan L70 25,000 hours
- Non-dimmable



AARG/GIM/CW/W

### LED Information

Total (Watts)	5W
Lumens Delivered	
Cool White	460lm
Warm White	400lm
Lm/W Cool White	92lm
Lm/W Warm White	80lm
Beam Angle	36°
CRI	Ra 80
CCT	4000K 3000K
Input	220V - 240V
Hertz	50/60Hz
Operating Temp	-15°C to 40°C



Code	Lamp	Description
AARG/GIM/CW/W	LED	5W - Cool White - White
AARG/GIM/WW/W	LED	5W - Warm White - White



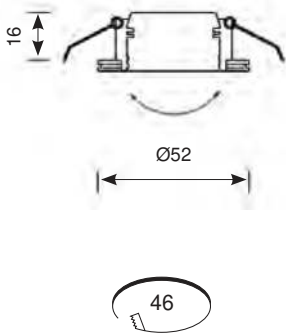


**Project - Private Residence**  
Abersoch, UK



- Micro recessed adjustable downlight with 40° tilt angle.
- Multiple uses, including general illumination, retail, cabinets and furniture applications
- LED lifespan L70 50,000 hours

Note: Provision should be made for fitting of driver due to minimal cut-out diameter



AIGLED/CW



AIGLED/WW



AIGLED/CW/W



AIGLED/WW/W

### LED Information

Total (Watts)	3W
Lumens Delivered	
Cool White	172lm
Warm White	141lm
Lm/W Cool White	31lm
Lm/W Warm White	28lm
Beam Angle	19°
CRI	Ra 80
CCT	4000K
	3000K
Input	700mA
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>AIGLED/CW</b>	LED	3W - Cool White - Brushed Chrome
<b>AIGLED/WW</b>	LED	3W - Warm White - Brushed Chrome
<b>AIGLED/CW/W</b>	LED	3W - Cool White - White
<b>AIGLED/WW/W</b>	LED	3W - Warm White - White

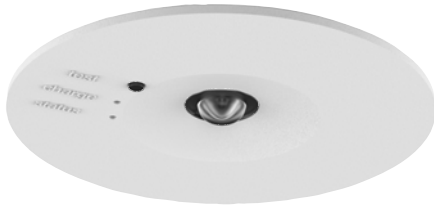
Accessories	Code	Description
	<b>AD3W/700</b>	3W 700mA LED Driver
	<b>ADK12W/700</b>	12W 700mA LED Driver
	<b>ADK20W/700</b>	20W 700mA LED Driver
	<b>AMCD25W</b>	25W 700mA Dimmable LED Driver
	<b>AMCD50W</b>	50W 700mA Dimmable LED Driver



# Signal Pro LED Lithium Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

122



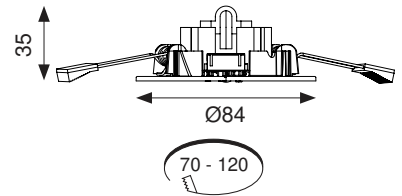
ASPRLED/LI/3M/DA  
Open Area Lens



ASPRLED/LI/3M/DA  
Escape Route Lens



ASPRLED/LI/3M/DA  
Fitted with included Converter Plate Accessory



- Compact LED Non-Maintained fixed downlight
- LiFePO4 Lithium battery provides enhanced product lifetime
- 70mm to 120mm cut-out
- Supplied with open area and escape route interchangeable lenses
- High specification optic design and performance allows increased spacing providing reduced cost
- DALI emergency as standard
- If not connected to DALI network Self-test mode operates automatically

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	6	14
4	-	-	5.5	16
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum)**			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	4	8	4	8
4	4.7	9	4.7	9
6	4.9	9.5	4.9	9.5

## LED Information

Total (Watts)	2.5W
Lumens Delivered Emergency Mode	
Open Area	209lm
Escape Route	201lm
Beam Angle	
Open Area	144°
Escape Route	143° x 120°
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5°C to 40°C

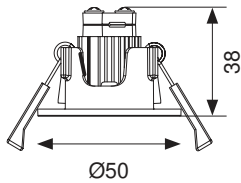
Code	Lamp	Description
ASPRLED/LI/3M/DA	LED	2.5W Non-Maintained
<b>Accessory</b> ASBP/19	6.4V 1500mAh LiFePO4 Lithium Replacement Battery	



# Signal LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

- Economic and compact LED Non-Maintained fixed downlight
- Integral selector switch provides option of high/medium/low brightness of green charging indicator
- White and black powder coat paint finish
- LED combines power and green charge indicator
- Dimmable switch included for green charge indicator
- 3 hour emergency output



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

## LED Information

Total (Watts)	1.5W
Lumens Delivered Emergency Mode	
ASLED/3NM	100lm
ASLED/3NM/B	107lm
Beam Angle	
ASLED/3NM	128°
ASLED/3NM/B	115°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

		Escape route 2 metres wide (1 Lux minimum) *				
		***	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □
		Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
ASLED/3NM	2.5	3	8.5	3	8.5	
	4	3	9	3	9	
ASLED/3NM/B	2.5	2.7	7	2.7	7	
	4	2.6	7.5	2.6	7.5	

		Open (Anti-Panic) area (0.5 Lux Minimum)**				
		***	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □
		Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
ASLED/3NM	2.5	3.6	7.5	3.6	7.5	
	4	3.6	10.5	3.6	10.5	
	6	3.6	11	3.6	11	
ASLED/3NM/B	2.5	3	6.3	3	6.3	
	4	3	9	3	9	
	6	3	10.5	3	10.5	

Code	Lamp	Description
ASLED/3NM	LED	1.5W Non-Maintained
ASLED/3NM/B	LED	1.5W Non-Maintained

<b>Accessory</b>	<b>ASBP/8</b>	3.6V 2Ah Ni-Cd Replacement Battery
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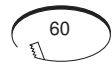
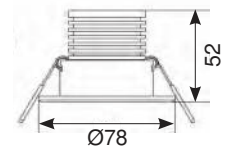
# Beacon LED Emergency Adjustable Downlight

Supplied c/w Remote Driver and Battery Pack

124



- LED Non-Maintained adjustable die-cast aluminium downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 22° beam angle



***	Escape route 2 metres wide (1 Lux minimum) *				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	2	5.25	2	5.25	
4	2.5	6.5	2.5	6.5	
6	-	-	-	-	

***	Open (Anti-Panic) area (0.5 Lux Minimum) **				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	2.25	5.7	2.25	5.7	
4	2.5	7.1	2.5	7.1	
6	3	8.25	3	8.25	

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	248lm
Beam Angle	22°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

Code	Lamp	Description
ABLED/3NM	LED	5W Non-Maintained

Accessory	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery
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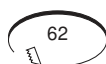
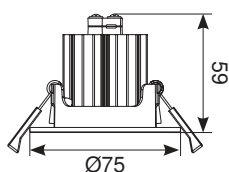


# Beacon LED Fixed Emergency Downlight

Supplied c/w Remote Driver and Battery Pack



- LED Non-Maintained fixed polycarbonate downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 123° beam angle



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

**LED Information**

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	316lm
Beam Angle	123°
CCT	6500K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 40°C

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)				
2.5	-	-	3	9.5
4	-	-	3.3	11.5
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)				
2.5	3.5	8.9	3.5	8.9
4	4	11.4	4	11.4
6	4.5	12.9	4.5	12.9

Code	Lamp	Description
<b>ABFLED/3NM</b>	LED	5W Non-Maintained

<b>Accessory</b>	<b>ASBP/9</b>	3.6V 4.5Ah Ni-Cd Replacement Battery
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Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750



# Raven LED Lithium Emergency Downlight

Supplied c/w Integral Driver and Battery Pack

126



Emergency downlight with integral inverter and battery pack

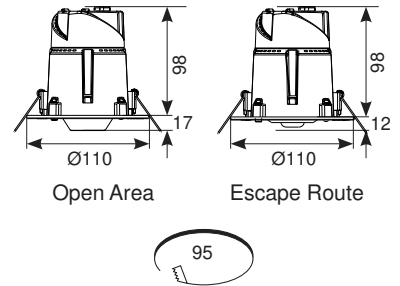


Escape Route



Open Area

- Recessed Self-test emergency downlight with self-contained inverter and battery pack
- LiFePO4 Lithium battery provides enhanced product lifetime
- Integral components for fast-fit installation
- Option of escape route or open area models
- High performance optic design
- Pre-wired with 150mm rubber insulated cable for ease of installation
- Up to 15 metres spacing between luminaires



Open Area

Escape Route

Mounting Height (M)	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	4	10
4	-	-	3	11
6	**	**	**	**

Mounting Height (M)	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	2.5	4.88	2.5	4.88
4	2.8	6.69	2.8	6.69
6	2	8.5	2	8.5

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

## LED Information

Total (Watts)	3W
Lumens Delivered	
Emergency Mode	
Open Area	114lm
Escape Route	90lm
Beam Angle	
Open Area	43.3°
Escape Route	142° x 49°
CCT	6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

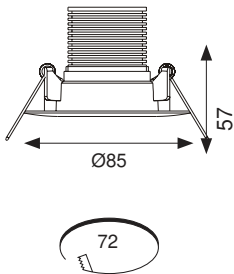
Code	Lamp	Description
<b>Self-Test</b> ARALED/ER/3NM/ST	LED	3W Non-Maintained - Escape Route
ARALED/OA/3NM/ST	LED	3W Non-Maintained - Open Area
<b>Accessory</b> ASBP/14	3.2V 2600mA Li-FePO4 Lithium Replacement Battery	



# Merlin LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

- Ultra-low profile recessed self-test emergency downlight
- Self-test as standard
- Option of escape route or open area models
- High specification optic design and performance allows increased spacing providing reduced cost
- Up to 19.6 metres spacing between luminaires



AMELED/OA/3NM/ST



AMELED/ER/3NM/ST/B

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	5.5	14
4	-	-	7.5	19.6
2.5	-	-	5	14
4	-	-	7	19.5

***	Open (Anti-Panic) area (0.5 Lux Minimum)**			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3	6.5	3	6.5
4	4	9.5	4	9.5
6	5	11.5	5	11.5
2.5	3	6	3	6
4	4	9	4	9
6	4.5	10	4.5	10

**LED Information**

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	/B
Open Area	259lm 191lm
Escape Route	247lm 229lm
Beam Angle	
Open Area	110° 108°
Escape Route	140° x 53° 140 x 53°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

	Code	Lamp	Description
<b>Self-Test</b>	AMELED/ER/3NM/ST	LED	5W Non-Maintained - Escape Route
	AMELED/OA/3NM/ST	LED	5W Non-Maintained - Open Area
	AMELED/ER/3NM/ST/B	LED	5W Non-Maintained - Escape Route
	AMELED/OA/3NM/ST/B	LED	5W Non-Maintained - Open Area

<b>Accessory</b>	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery
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# IP65 Falcon LED Surface Emergency Downlight

Supplied c/w Integral Driver and Battery Pack



AFALED/3NM/ST/IP65



AFALED/3NM/ST/IP65/B

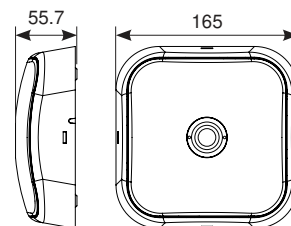


Open Area Lens



Escape Route Lens

- Compact surface ultra-low profile self-test emergency downlight
- Self-test as standard
- Supplied with open area and escape route interchangeable lenses
- High specification optic design and performance allows increased spacing providing reduced cost
- Up to 12 metres spacing between luminaires
- BESA mounting option



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

Mounting Height (M)	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	4.2	10
4	-	-	4.25	12
2.5	-	-	4	9.5
4	-	-	3.6	11

Mounting Height (M)	Open (Anti-Panic) area (0.5 Lux Minimum)**			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	2.5	5	2.5	5
4	3.5	7.1	3.5	7.1
6	4	9.8	4	9.8
2.5	2.5	4.8	2.5	4.8
4	3.5	6.8	3.5	6.8
6	4	9.8	4	9.8

Code	Lamp	Description
<b>Self-Test</b> AFALED/3NM/ST/IP65	LED	3W Non-Maintained
AFALED/3NM/ST/IP65/B	LED	3W Non-Maintained - Black

<b>Accessory</b> ASBP/10	3.6V 3Ah Ni-Cd Replacement Battery
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## LED Information

Total (Watts)	3W
Lumens Delivered	
Emergency Mode	White Black
Open Area	152lm 142lm
Escape Route	138lm 116lm
Beam Angle	
Open Area	96° 96°
Escape Route	133° x 15° 135° x 17°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C





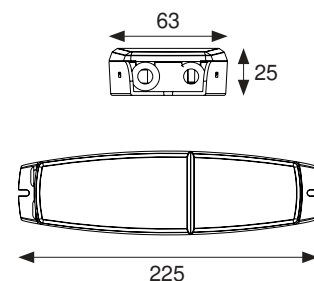
**Project - Synecco**  
Galway , Ireland

# Hawk Universal Lithium Emergency Kit

130



- Ultra-slim universal Self-test emergency convertor pack for LED luminaires
- Supplied c/w recessed LED indicator housing
- Ideal for most LED panels, Downlights and Linear products
- Compatible for LED luminaires with separate LED driver (Maximum 60V Forward Voltage)
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime



<b>Forward Voltage</b>	18V	23V	28V	33V	38V	43V
<b>Output Current</b>	59mA	60mA	60mA	62mA	62mA	62mA
<b>Output Wattage</b>	1.06W	1.38W	1.68W	2.05W	2.36W	2.67W

<b>Forward Voltage</b>	48V	53V	54V	55V	56V	60V
<b>Output Current</b>	62mA	62mA	62mA	62mA	62mA	62mA
<b>Output Wattage</b>	2.98W	3.29W	3.35W	3.41W	3.47W	3.70W

Code

Description

**AHUEMKIT/LI**

Maintained/Non-maintained - Universal Emergency Pack





- *Emergency lighting pack for use with LED and Mains GU10 CFL Lamps as follows:-*

**GU10 LED Lamps**

*Minimum: 3W*

*Maximum: 8W*

- *55mm cut-out aperture*
- *Will provide 3 hour duration*



ACFLP/3

Code	Description
<b>ACFLP/3</b>	Maintained / Non-Maintained - LED

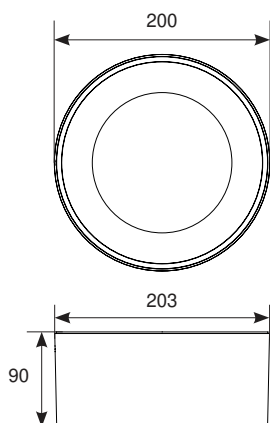
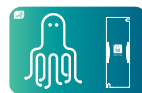




# Comfort CCT LED Surface Downlight

Supplied c/w Integral Driver

- Shallow surface mounted circular back-lit LED downlight
- One product provides both 3000K and 4000K colour temperature options
- Push fit terminals for ease and speed of installation
- Discreet rear bracket mounting method
- Deep cut off angle for glare control and comfort
- 21W exceeds performance 1x32W PL
- 26W exceeds performance 2x26W PL
- 2 CCT options selectable
- LED lifespan L70 50,000 hours



## LED Information

Total (Watts)	21W	26W
Lumens Delivered		
Cool White	1931lm	2430lm
Warm White	1796lm	2352lm
Lm/W Cool White	92lm	94lm
Lm/W Warm White	85lm	91lm
Beam Angle	94°	
CRI	Ra 80	
CCT	3000K 4000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to 50°C	



Code	Lamp	Description
ASCOLED/1/CCT	LED	21W - Cool White/Warm White
ASCOLED/2/CCT	LED	26W - Cool White/Warm White

Options	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



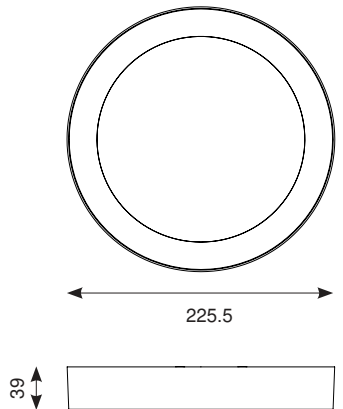
# Freska Surface LED Downlight

Supplied c/w Integral Driver

134



- Shallow surface mounted circular edge-lit LED panel
- Simple twist and lock invisible fixing method enables ease and speed of installation
- Comparable performance to 26W PLC
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	18W
Lumens Delivered	
Cool White	1368lm
Warm White	1273lm
Lm/W Cool White	76lm
Lm/W Warm White	70lm
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
ASFRLED230/CW	LED	18W - Cool White
ASFRLED230/WW	LED	18W - Warm White





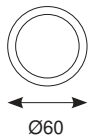
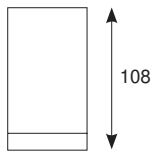
# Rieti Surface LED Downlight

Supplied c/w Integral Driver



135

- Modern slim surface mounted LED downlight
- Die-cast aluminium construction with a matt white paint finish
- Suitable for domestic and commercial applications
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	8W
Lumens Delivered	
Cool White	659lm
Warm White	607lm
Lm/W Cool White	82lm
Lm/W Warm White	76lm
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
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<b>ARIELED/CW</b>	LED	8W - Cool White
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<b>ARIELED/WW</b>	LED	8W - Warm White
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Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



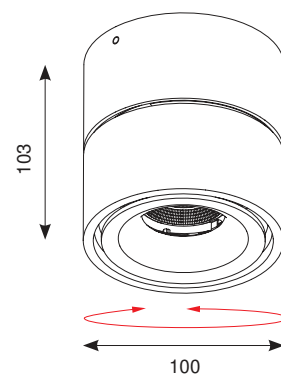
# Uni LED

Supplied c/w Integral Driver



Fully adjustable to 90°

- Multi-functional adjustable surface mounting LED fixture
- Exceeds performance of 50W MR16 halogen
- 350° rotation and adjustable to 90°
- Suitable for use as ceiling mounting downlight or wall mounting in an upward or downward orientation
- Die-cast aluminium construction with a matt white paint finish
- LED lifespan L70 60,000 hours
- Triac dimmable as standard



### LED Information

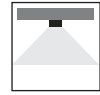
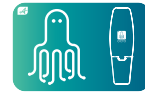
Total (Watts)	9W
Lumens Delivered	645lm
Lm/W	72lm
Beam Angle	31°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
AUNIVLED	LED	9W - Warm White

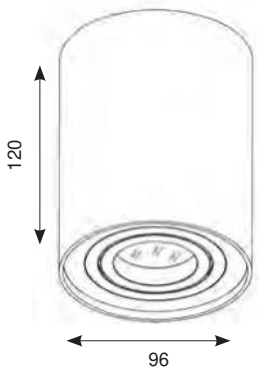


# Novara Surface GU10

Supplied Less Lamp



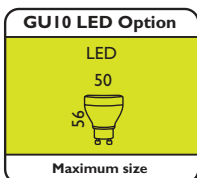
- Surface mounted GU10 downlight with tilt adjustment
- Suitable for GU10 LED, GU10 halogen and GU10 CFL lamps
- Aluminium construction
- 36° tilt angle and 355° rotation



ANSGU10/SC



ANSGU10/W



Code	Lamp	Description
ANSGU10/W	GU10	White
ANSGU10/SC	GU10	Satin Chrome



Terminals comfortably accept 2 x 1.5 Twin and Earth cables with screwless snap-fit cover and cable clamp, for ease and speed of installation

Patented intumescent disc

Open design of fitting allows lamp to 'breathe' providing optimum lamp life and allows for use of ALL suitable retrofit branded lamps

Sleeved AND double insulated high temperature cable

Supplied c/w GU10 Lampholder

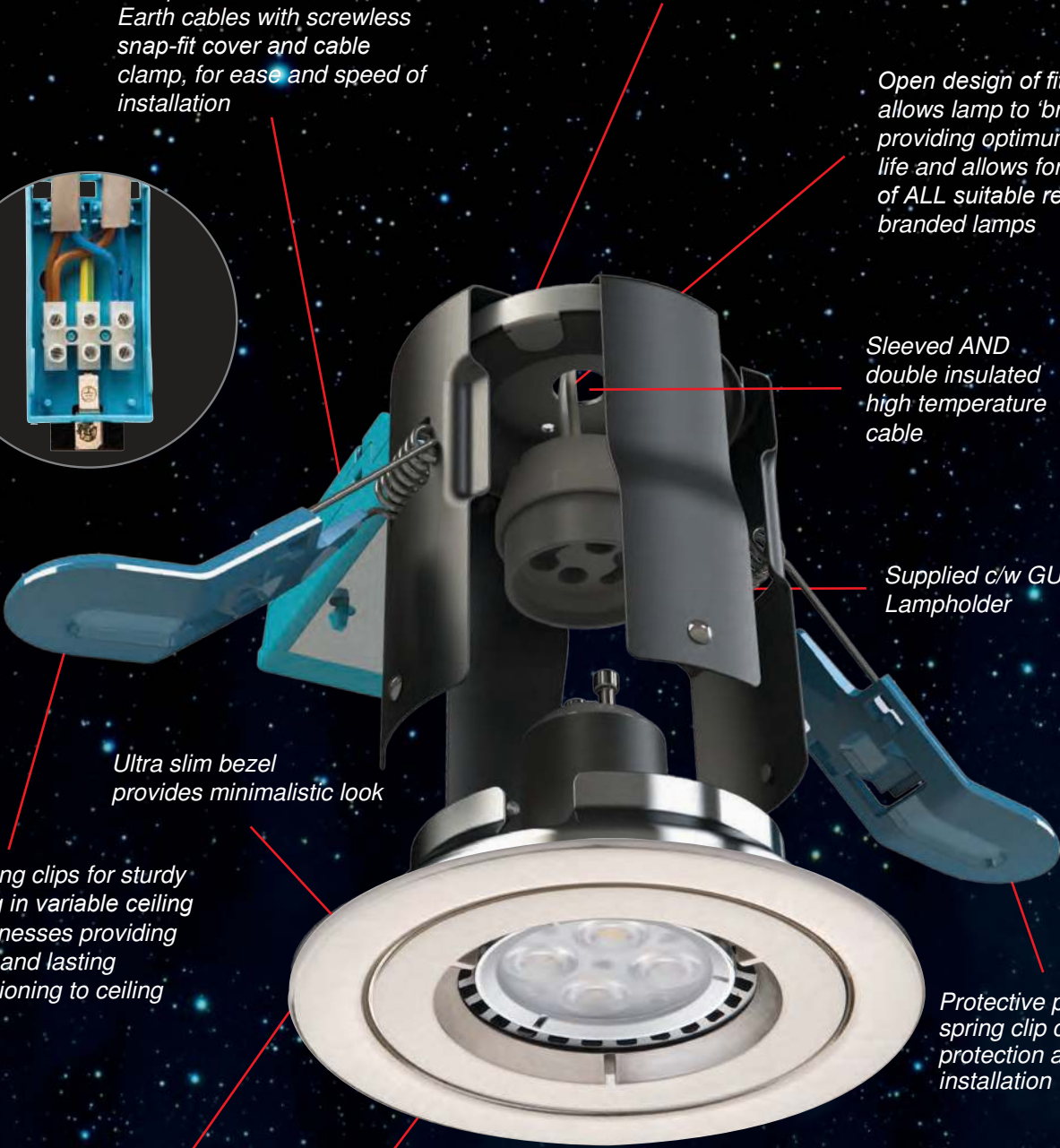
Ultra slim bezel provides minimalistic look

Sprung clips for sturdy fixing in variable ceiling thicknesses providing tight and lasting positioning to ceiling

Protective polycarbonate spring clip covers for ceiling protection and ease of installation

Moisture seal

Twistlock operation for easy lamp installation and replacement





# INNOVATIVE INTUMESCENT ACTION

This patented and registered design, incorporates a unique intumescent reaction allowing a totally new concept as a cage constructed luminaire.

In comparison to existing fire rated enclosed can designs, iCage Mini and its components operate in a cooler environment and are not reliant on forward heat lamp to provide lower operating temperatures.

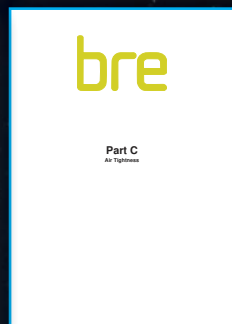
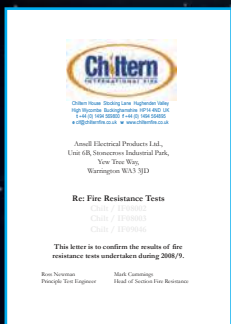
iCage Mini offers the installer and specifier comprehensive lamp options, including Part L Compliant LED as well as traditional halogen.



Normal Operation



Activated Intumescent



**Part B**  
Test Nos.  
30 Minutes Chilt/A/12229  
60 Minutes Chilt/A/12230  
90 Minutes Chilt/A/12231

**Part C**  
Test Nos.  
P100567

**Part E**  
Test No.  
BRE/254782

## BEZEL OPTIONS

Fully tested in 30, 60 and 90 minute ceilings



White



Matt White



Brass



Chrome



Satin Chrome



Antique Brass



Black Chrome

# iCage Mini 50W GU10 Die-Cast Downlight

Supplied Less Lamp

140



AMICD/W



AMICD/MW



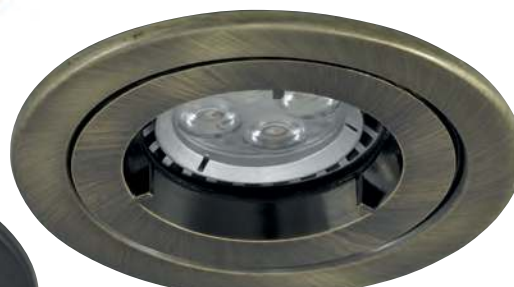
AMICD/BR



AMICD/CH



AMICD/SC



AMICD/AB



AMICD/BLC



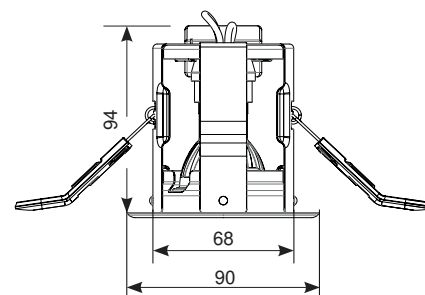
- Suitable for standard GU10 LED or halogen lamps retrofit
- Protective polycarbonate spring clip covers for ceiling protection and ease of installation
- Dedicated forward heat lamps NOT required
- Extra large terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile
- Compact Fire Rated downlight for shallow ceiling voids

## Lamp Options



GU10 LED

GU10 Halogen



76

Code	Lamp	Description
AMICD/W	GU10	50W - White
AMICD/MW	GU10	50W - Matt White
AMICD/BR	GU10	50W - Brass
AMICD/CH	GU10	50W - Chrome
AMICD/SC	GU10	50W - Satin Chrome
AMICD/AB	GU10	50W - Antique Brass
AMICD/BLC	GU10	50W - Black Chrome





**Project - The Liquor Store**  
Manchester, UK

# iCage Mini 50W GU10 Die-Cast Gimbal

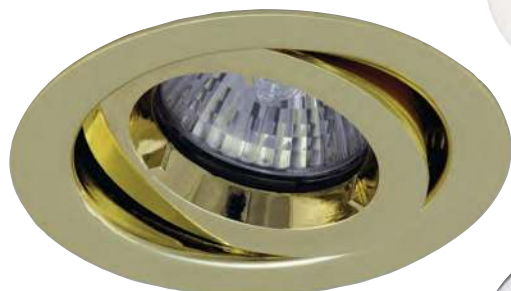
Supplied Less Lamp



AMICG/W



AMICG/MW



AMICG/BR



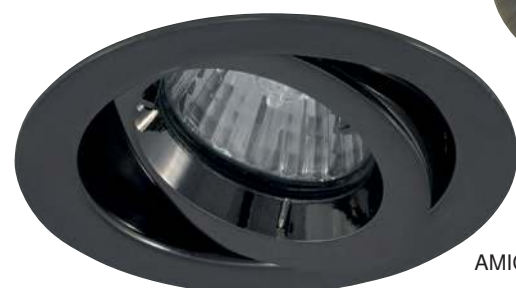
AMICG/CH



AMICG/SC



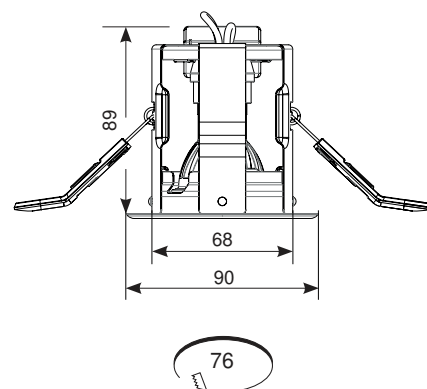
AMICG/AB



AMICG/BLC



- Compact Fire Rated downlight for shallow ceiling voids
- Suitable for standard GU10 LED or halogen lamps retrofit
- Protective polycarbonate spring clip covers for ceiling protection and ease of installation
- Dedicated forward heat lamps NOT required
- Extra large terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile



Code	Lamp	Description
AMICG/W	GU10	50W - White
AMICG/MW	GU10	50W - Matt White
AMICG/BR	GU10	50W - Brass
AMICG/CH	GU10	50W - Chrome
AMICG/SC	GU10	50W - Satin Chrome
AMICG/AB	GU10	50W - Antique Brass
AMICG/BLC	GU10	50W - Black Chrome





# iCage Mini IP65 50W GU10 Die-Cast Downlight

Supplied Less Lamp



- Compact Fire Rated downlight for shallow ceiling voids
- Suitable for standard GU10 LED or halogen lamps retrofit
- Protective polycarbonate spring clip covers for ceiling protection and ease of installation
- Dedicated forward heat lamps NOT required
- Extra large terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile



AMICD/IP65/W



AMICD/IP65/MW



AMICD/IP65/BR



AMICD/IP65/CH



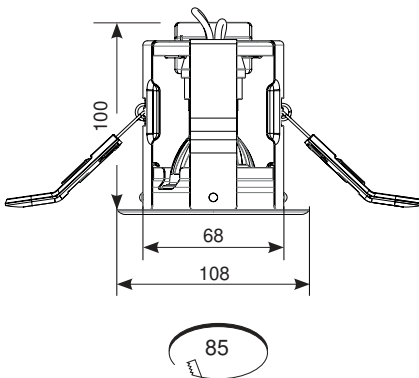
AMICD/IP65/SC



AMICD/IP65/AB

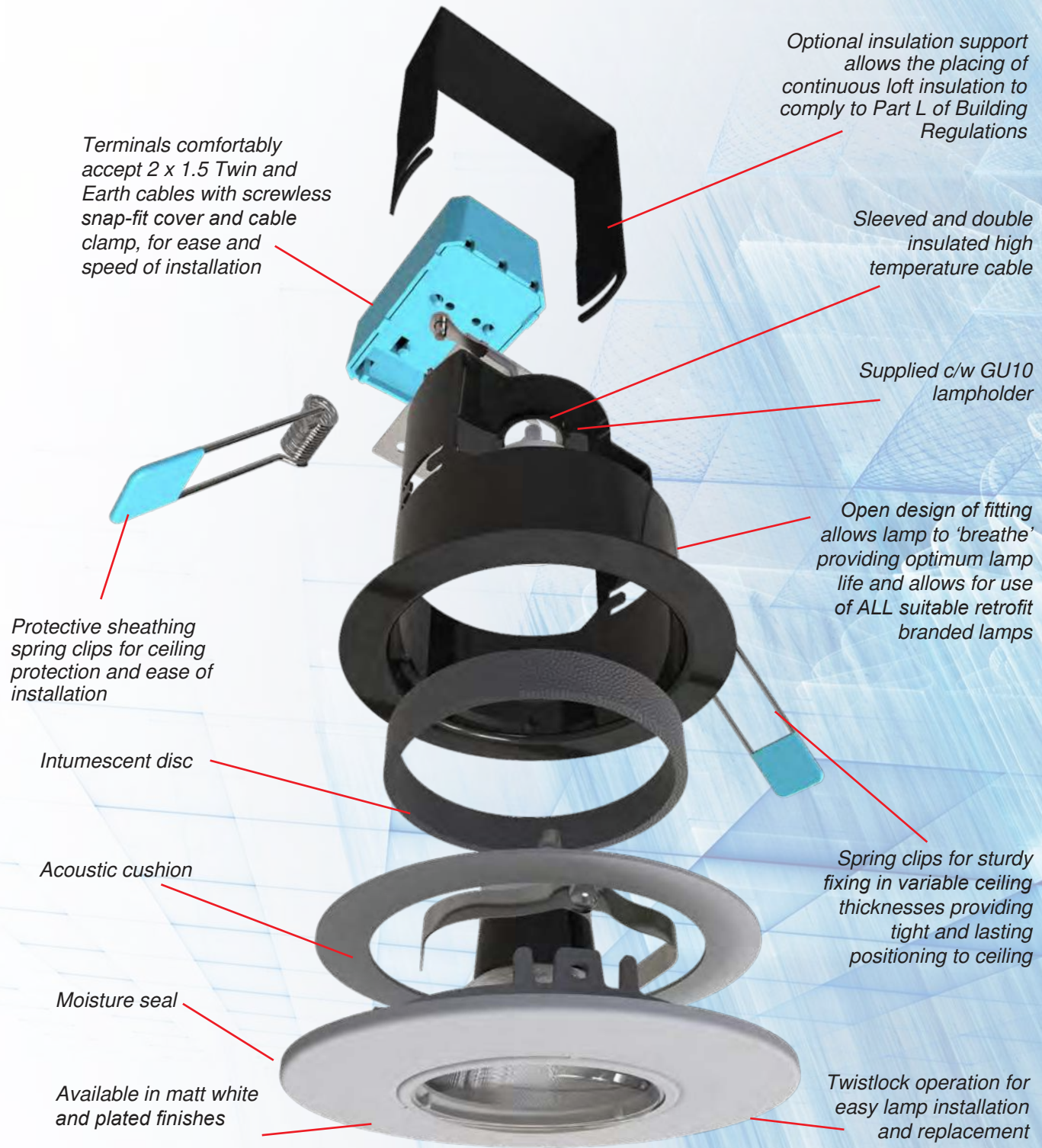


AMICD/IP65/BLC



Code	Lamp	Description
AMICD/IP65/W	GU10	50W - White
AMICD/IP65/MW	GU10	50W - Matt White
AMICD/IP65/BR	GU10	50W - Brass
AMICD/IP65/CH	GU10	50W - Chrome
AMICD/IP65/SC	GU10	50W - Satin Chrome
AMICD/IP65/AB	GU10	50W - Antique Brass
AMICD/IP65/BLC	GU10	50W - Black Chrome





Terminals comfortably accept 2 x 1.5 Twin and Earth cables with screwless snap-fit cover and cable clamp, for ease and speed of installation

Optional insulation support allows the placing of continuous loft insulation to comply to Part L of Building Regulations

Sleeved and double insulated high temperature cable

Supplied c/w GU10 lampholder

Open design of fitting allows lamp to 'breathe' providing optimum lamp life and allows for use of ALL suitable retrofit branded lamps

Protective sheathing spring clips for ceiling protection and ease of installation

Intumescent disc

Acoustic cushion

Moisture seal

Available in matt white and plated finishes

Spring clips for sturdy fixing in variable ceiling thicknesses providing tight and lasting positioning to ceiling

Twistlock operation for easy lamp installation and replacement

### Product Certification



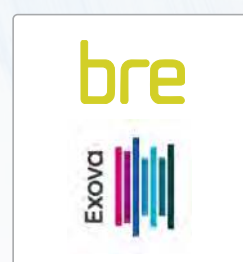
**Part B**  
Test Nos.  
30 Minutes - Exova WF383637  
60 Minutes - Exova WF383638  
90 Minutes - Exova WF383639



**Part C**  
Test Nos.  
BRE P107853-1001



**Part E**  
Test No.  
BRE P107853-1000



# Edge GU10 Fire Rated Downlight

Supplied Less Lamp



- Suitable for standard GU10 halogen or LED lamps
- Protective sheathing spring clips for ease of installation and ceiling protection
- Push fit terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile
- Compact Fire Rated downlight for shallow ceiling voids



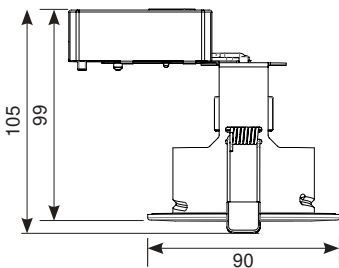
AEFRD/MW



AEFRD/CH



AEFRD/SC



Code	Lamp	Description
AEFRD/MW	GU10	50W - Matt White
AEFRD/CH	GU10	50W - Chrome
AEFRD/SC	GU10	50W - Satin Chrome

**Accessories AEFRISD** Downlight Insulation Support



# Edge GU10 Fire Rated Gimbal

Supplied Less Lamp

146



AEFRG/MW



AEFRG/CH



AEFRG/SC

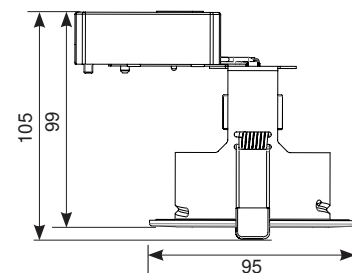
- Compact Fire Rated gimbal for shallow ceiling voids
- Suitable for standard GU10 halogen or LED lamps
- Protective sheathing spring clips for ceiling protection and ease of installation
- Push fit terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile

## Lamp Options



GU10 LED

GU10 Halogen



Code	Lamp	Description
AEFRG/MW	GU10	50W - Matt White
AEFRG/CH	GU10	50W - Chrome
AEFRG/SC	GU10	50W - Satin Chrome

Accessories AEFRISG Gimbal Insulation Support



# Edge GU10 IP65 Fire Rated Downlight

Supplied Less Lamp



ZONE 2

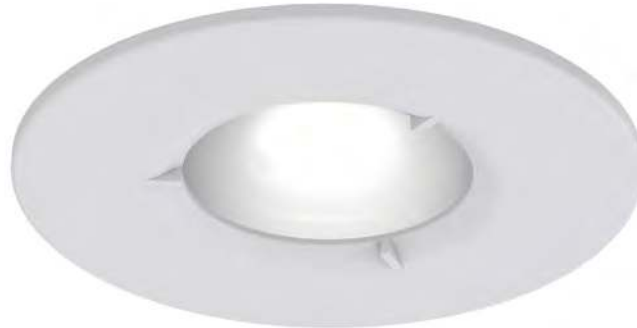
PART E

PART C

30. 60. 90

5YR

- Compact Fire Rated IP65 downlight for shallow ceiling voids
- Suitable for standard GU10 halogen or LED lamps
- IP65 ingress protection allows a range of installation options
- Protective sheathing spring clips for ceiling protection and ease of installation
- Push fit terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile



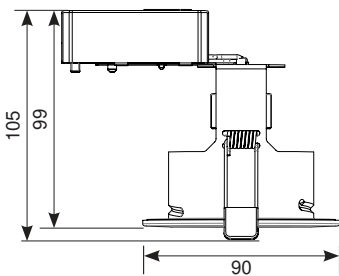
AEFRD/IP65/MW



AEFRD/IP65/CH



AEFRD/IP65/SC



Code	Lamp	Description
AEFRD/IP65/MW	GU10	50W - Matt White
AEFRD/IP65/CH	GU10	50W - Chrome
AEFRD/IP65/SC	GU10	50W - Satin Chrome

**Accessories AEFRISD** Downlight Insulation Support



# Lyric GU10

Supplied Less Lamp

148



ALGU10/1



ALGU10/1/MW



ALGU10/2/MW



ALGU10/2

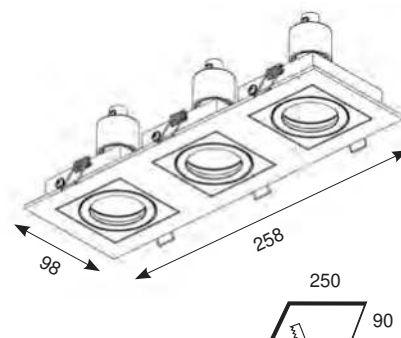
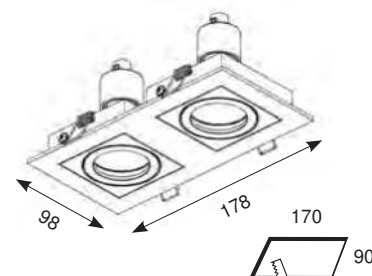
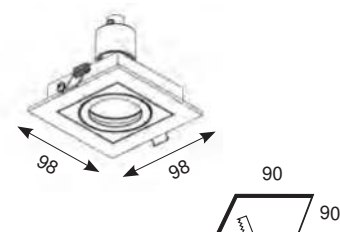


ALGU10/3

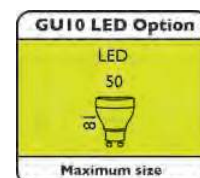


ALGU10/3/MW

- Recessed display downlights adjustable on two axes
- Suitable for GU10 LED, GU10 halogen and GU10 CFL lamps
- Die-cast aluminium construction with brushed satin finish



Depth less stirrup bracket: 24  
Depth with stirrup fitted: 125



Code	Lamp	Description
ALGU10/1	GU10	1 x 50W - Brushed Satin
ALGU10/2	GU10	2 x 50W - Brushed Satin
ALGU10/3	GU10	3 x 50W - Brushed Satin

ALGU10/1/MW	GU10	1 x 50W - Matt White
ALGU10/2/MW	GU10	2 x 50W - Matt White
ALGU10/3/MW	GU10	3 x 50W - Matt White



# Twistlock GU10 50W Die-Cast Downlight

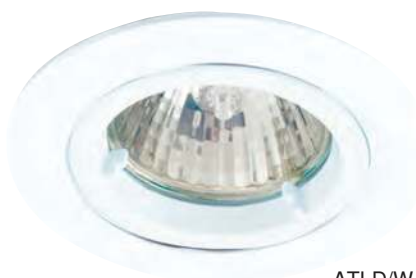
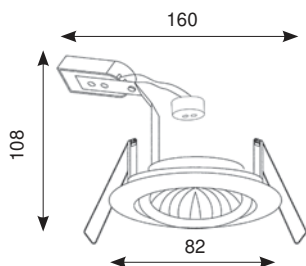
Supplied Less Lamp



- Manufactured from high grade die-cast aluminium
- Permanent earth on stirrup bracket for GU10 mains earthing
- Generous size of terminal housing for ease of wiring



ATL/BA fitted into Twistlock Low glare baffle adaptor



ATLD/W



ATLD/MW



ATLD/BR



ATLD/CH



ATLD/SC



ATLD/AB



ATLD/BLC

Code	Lamp	Description
ATLD/W	GU10	50W - White
ATLD/MW	GU10	50W - Matt White
ATLD/BR	GU10	50W - Brass
ATLD/CH	GU10	50W - Chrome
ATLD/SC	GU10	50W - Satin Chrome
ATLD/AB	GU10	50W - Antique Brass
ATLD/BLC	GU10	50W - Black Chrome

Accessories ATL/BA Low Glare Baffle Adaptor



- |                        |                     |
|------------------------|---------------------|
| 1986 R. COLEMAN        | 2005 A. HAGUE       |
| 1987 B. E. SMITH       | 2006 T. J. MAXIM    |
| 1988 R. ALLSOP         | 2007 M. STACEY      |
| 1989 K. LEWIS          | 2008 J. BEAUMONT    |
| 1990 P. H. SMITH       | 2009 P. T. ORTON    |
| 1991 E. DUDLEY         | 2010 R. A. EYLEY    |
| 1992 C. E. RAWLINSON   | 2011 T. KING        |
| 1993 J. C. KIRKPATRICK | 2012 F. C. MARRIOTT |
| 1994 E. BALL           | 2013 S. P. WOODWARD |
| 1995 J. W. TYLER       | 2014 A. CHAMBERS    |
| 1996 O. KING           | 2015 A. S. TYLER    |
| 1997 J. B. WALTERS     | 2016 L. S. MUSSON   |
| 1998 R. HORTON         | 2017 T. J. RYAN     |
| 1999 G. D. BURGESS     | 2018 G. P. PATMAN   |
| 2000 A. D. CRAFTS      |                     |
| 2001 R. H. MARSH       |                     |
| 2002 S. D. MATTHEWS    |                     |
| 2003 A. HILL           |                     |
| 2004 G. L. STENT       |                     |



**Project - Coxmoor Golf Club**  
Sutton-in-Ashfield, UK



# Twistlock GU10 50W Die-Cast Gimbal

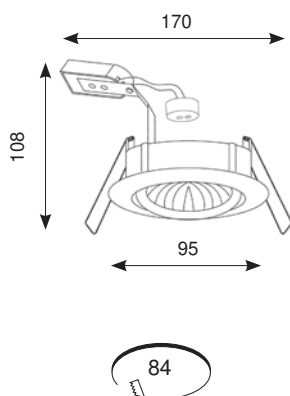
Supplied Less Lamp



- Manufactured from high grade die-cast aluminium
- Permanent earth on stirrup bracket for GU10 mains earthing
- Generous size of terminal housing for ease of wiring
- 30 degree tilt angle



ATL/BA fitted into Twistlock  
Low glare baffle adaptor



ATLG/W



ATLG/MW



ATLG/BR



ATLG/CH



ATLG/SC



ATLG/AB



ATLG/BLC

Code	Lamp	Description
ATLG/W	GU10	50W - White
ATLG/MW	GU10	50W - Matt White
ATLG/BR	GU10	50W - Brass
ATLG/CH	GU10	50W - Chrome
ATLG/SC	GU10	50W - Satin Chrome
ATLG/AB	GU10	50W - Antique Brass
ATLG/BLC	GU10	50W - Black Chrome

Accessories ATL/BA

Low Glare Baffle Adaptor



# Twistlock GU10 50W Die-Cast Square Gimbal

Supplied Less Lamp

152



ATLSQG/W

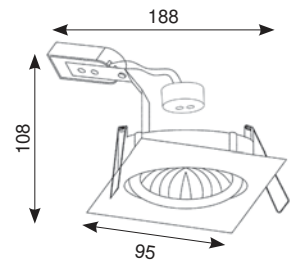


ATLSQG/CH



ATLSQG/SC

- Permanent earth on stirrup bracket for GU10 mains earthing
- 30 degree tilt angle



ATL/BA fitted into Twistlock Low glare baffle adaptor



Code	Lamp	Description
ATLSQG/W	GU10	50W - White
ATLSQG/CH	GU10	50W - Chrome
ATLSQG/SC	GU10	50W - Satin Chrome

Accessories ATL/BA Low Glare Baffle Adaptor



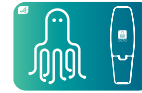




**Project - The Curve**  
Nottingham, UK

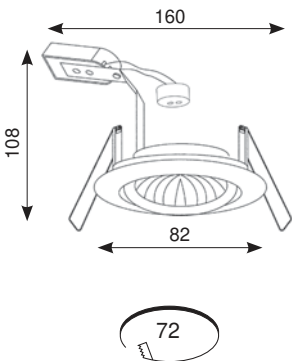
# Twistlock GU10 35W IP44 Die-Cast Downlight

Supplied Less Lamp



155

- IP44 downlight suitable for bathrooms



ATLVD/IP44/W



ATLVD/IP44/CH



ATLVD/IP44/SC



ATL/BA fitted into Twistlock  
Low glare baffle adaptor



Code	Lamp	Description
<b>ATLVD/IP44/W</b>	GU10	35W - White
<b>ATLVD/IP44/CH</b>	GU10	35W - Chrome
<b>ATLVD/IP44/SC</b>	GU10	35W - Satin Chrome

<b>Accessory</b>	<b>ATL/BA</b>	Low Glare Baffle Adaptor
------------------	---------------	--------------------------



Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Twistlock GU10 IP65 Downlight

Supplied Less Lamp

156



**IP65** ATLD/IP65/W



**IP65** ATLD/IP65/MW



**IP65** ATLD/IP65/CH

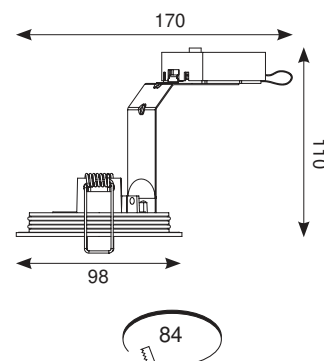


**IP65** ATLD/IP65/SC

- IP65 downlight suitable for bathroom use
- Die-cast aluminium construction with clear glass
- Permanent earth on stirrup bracket for GU10 mains earthing
- Generous size of terminal housing for ease of wiring



ATL/BA fitted into Twistlock Low glare baffle adaptor



Code	Lamp	Description
ATLD/IP65/W	GU10	50W - White
ATLD/IP65/MW	GU10	50W - Matt White
ATLD/IP65/CH	GU10	50W - Chrome
ATLD/IP65/SC	GU10	50W - Satin Chrome

ATL/BA	Low Glare Baffle Adaptor
--------	--------------------------

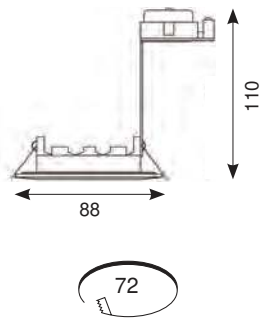


# IP65 GU10/MR16 Die-Cast Bathroom Downlight

Supplied Less Lamp



- IP65 solid die-cast aluminium construction
- Supplied with MR16 and GU10 lampholders
- Clear glass



ABD/W



ABD/CH



ABD/SC



Code	Lamp	Description
<b>ABD/W</b>	GU10/MR16	50W - White
<b>ABD/CH</b>	GU10/MR16	50W - Chrome
<b>ABD/SC</b>	GU10/MR16	50W - Satin Chrome





**Project - Private Residential**  
Warrington, UK



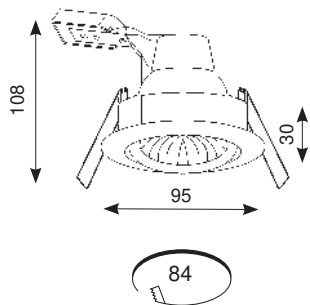
# Twistlock GU10 / 35W IP44 Outdoor Die-Cast Gimbal

Supplied Less Lamp



- IP44 rated for exterior applications
- DuPont paint finish with 20 year guarantee

Suitable for GU10 LED only



ATLVOG/IP44/W



ATLVOG/IP44/SG

Suitable for external soffit applications



ATLVOG/IP44/B



Code	Lamp	Description
ATLVOG/IP44/W	GU10*	35W - White
ATLVOG/IP44/B	GU10*	35W - Black
ATLVOG/IP44/SG	GU10*	35W - Silver Grey

\*GU10 LED Only



# Converter Kit Low Voltage and GU10

Supplied Less Lamp



ACP/W



ACP/CH

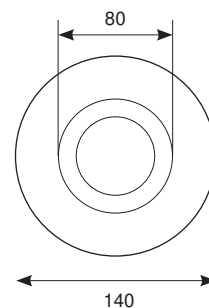


ACP/SC

- Retrofit converter kit to replace mains reflector downlights (R50, R64, R80) and eyeballs (R50, R64)
- Supplied with converter plate, downlight and a choice of low voltage and GU10 lampholders for MR16, GU10, CFL or LED lamp sources



Variable 70-98mm



Code	Lamp	Description
ACP/W	GU10 / MR16	50W - White
ACP/CH	GU10 / MR16	50W - Chrome
ACP/SC	GU10 / MR16	50W - Satin Chrome



MR16 GU10

- Fully tested for 60 minute fire protection
- Quick and easy installation from below or above the ceiling
- Ventilated to avoid over heating of light fittings

When selecting the size of firehood required, please allow the following minimum clearances around the downlight:  
Horizontal: 40mm  
Vertical: 15mm

## Fire Hoods



Fire Hood

Hoods	Code	Cover Size (mm)	
	Standard Cover	Dia.	Height
	ADLC/0	150 x 120	
	ADLC/1	130 x 70	
	ADLC/2	130 x 100	
	ADLC/4	180 x 130	
	ADLC/6	260 x 120	
	ADLC/7	260 x 230	
	ADLC/8	300 x 170	
	ADLC/9	350 x 230	

## Spare Lampholders

- Replacement lampholders



ASGU10L

Code	Description
ASGU10L	GU10 Stirrup Lampholder with earth

# 24V Circuit

## Track System with Push-fit and Lock Connection

24V Track

163



24V Accessories

164



Unity Mini 24V Trackspot

165



### 24V Circuit Track Planning System



Live End



Straight Connector



Adjustable Connector



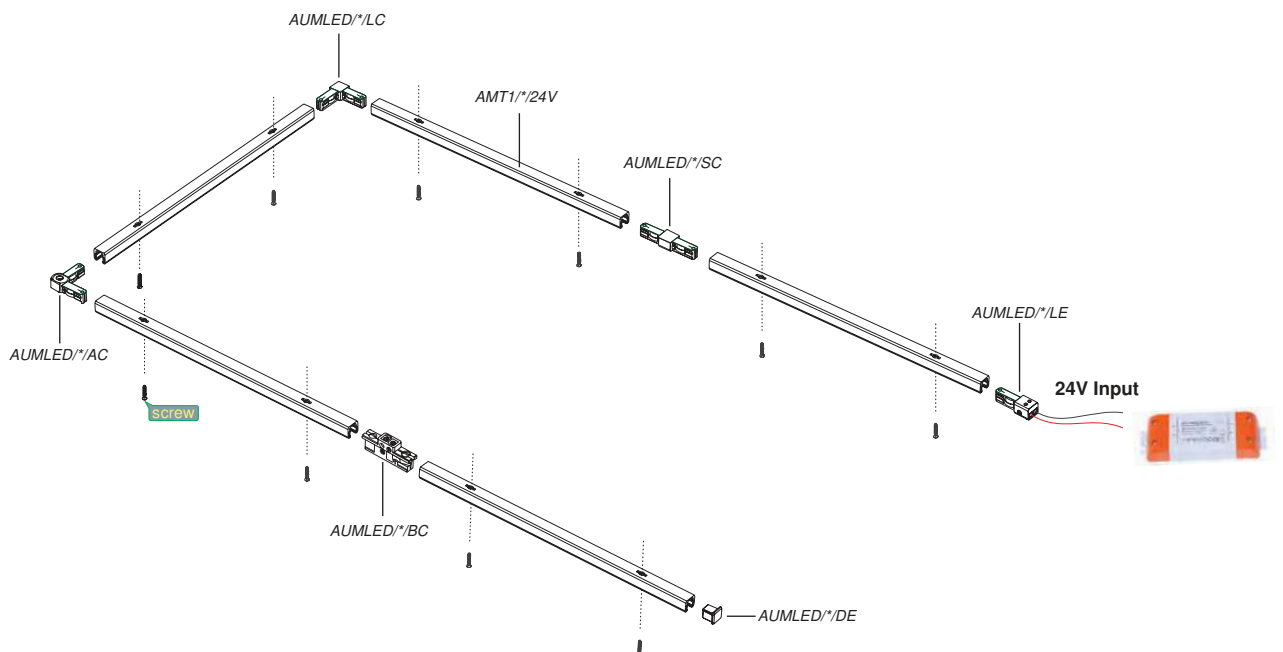
Butt Connector



L Shape Connector



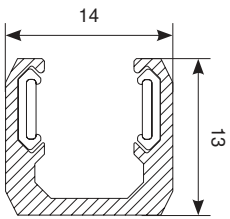
Dead End



# Mini 24V Single Circuit Track

Supplied c/w Live and End Cap

- Mini 24VDC track system ideal for discrete display applications
- Track supplied c/w live and (Earth left) and dead end
- Range of accessories offered providing flexibility p164



Code	Description			
<b>AMT1/W/24V</b>	1 Metre - White			
<b>AMT1/B/24V</b>	1 Metre - Black			
<b>ADK15W/24V</b>	15W	123	45	19
<b>ADK60W/24V</b>	60W	180	52	36
<b>ADK120W/24V</b>	120W	300	40	30
<b>ADK200W/24V</b>	200W	207	37	68.5



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# Unity Mini 24V Adjustable Trackspot Accessories



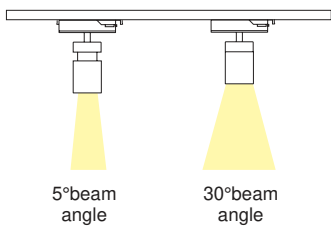
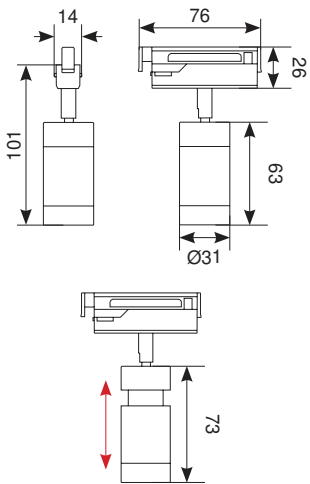
• Extensive range of accessories for Mini 24V adjustable trackspot

		Code	Description
	<b>Live End Connector</b>	AUMLED/W/LE	White
		AUMLED/B/LE	Black
	<b>Straight Connector</b>	AUMLED/W/SC	White
		AUMLED/B/SC	Black
	<b>Adjustable Connector</b>	AUMLED/W/AC	White
		AUMLED/B/AC	Black
	<b>Butt Connector</b>	AUMLED/W/BC	White
		AUMLED/B/BC	Black
	<b>L Shape Connector</b>	AUMLED/W/LC	White
		AUMLED/B/LC	Black
	<b>Dead End</b>	AUMLED/W/DE	White
		AUMLED/B/DE	Black

# Unity Mini 24V Adjustable Trackspot

Supplied c/w Integral Driver

- Compact mini 24VDC track spot
- Adjustable beam angle from 5° to 30° for highly efficient and uniform light output
- Dimmable as standard, using integrated dial from 5% to 100%
- 355° rotation with 0-180° tilt on the bracket
- LED lifespan L70 50,000 hours



## LED Information

Total (Watts)	7W	
Lumens Delivered	30°	5°
Cool White	267lm	146lm
Warm White	225lm	144lm
Lm/W Cool White	38lm	21lm
Lm/W Warm White	36lm	21lm
CRI	Ra 90	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 25°C	



AUMLED/B/WW

AUMLED/W/CW



Spot head extends narrowing the light output to a 5° beam creating a highly efficient and uniform light output



Slim and ultra-compact design provides modern and discrete appearance

Code	Lamp	Description
<b>AUMLED/W/CW</b>	LED	7W - Cool White - White
<b>AUMLED/B/CW</b>	LED	7W - Cool White - Black
<b>AUMLED/W/WW</b>	LED	7W - Warm White - White
<b>AUMLED/B/WW</b>	LED	7W - Warm White - Black



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# Single Circuit

## Track and Surface System with Push-fit and Lock Connection



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GU10 Mains Voltage  
Track Pack



168

Como 50W GU10  
Mains



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Dara 50W GU10 Mains



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Zita 50W GU10 Mains



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Lanzia 50W GU10  
Mains



173

Mains Track and  
Accessories



177

Unity 1 Low Profile  
Mains



178

Unity 2 Low Profile  
Mains



179

Unity 0 LED Mains



180

Unity 1 LED Mains



182

Unity 2 LED Mains



184

Unity 3 LED Mains



185

Unity 4 LED Mains



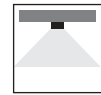
186

Unity Wallwash Mains



# Single Circuit GU10 Mains Voltage Track Pack

Supplied Less Lamp



- 1 Metre track
- Track supplied with live and dead ends
- Optional trim ring included
- Full range of accessories available to join track packs



AMTP1/W

AMTP1/SS  
Fitted Trim Ring



Code	Lamp	Description
AMTP1/W	GU10	3 x 50W - White
AMTP1/SS	GU10	3 x 50W - Satin Silver

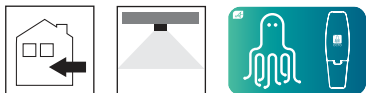
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# Single Circuit Como 50W GU10 Mains

Supplied Less Lamp

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ACOGU10S/SS

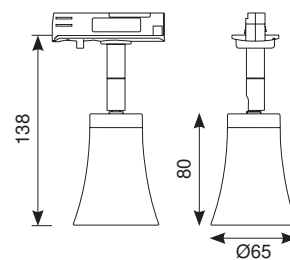


ACOGU10S/W



ACOGU10S/B

- Modern track spot
- Design of housing accommodates varied lamp lengths up to 56mm
- 355° rotation, spot head tilt angle to 90°



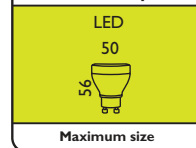
Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



GU10 LED Option



Code	Lamp	Description
ACOGU10S/W	GU10	White
ACOGU10S/B	GU10	Black
ACOGU10S/SS	GU10	Satin Silver

**Accessories** AMON/GU10/W Surface Monopoint - White

AMON/GU10/B Surface Monopoint - Black

AMON/GU10/SS Surface Monopoint - Satin Silver



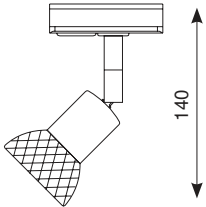
# Single Circuit Dara 50W GU10 Mains

Supplied Less Lamp

- 355° rotation, spot head tilt angle to 90°



169



ADGU10S/SS



ADGU10S/W



ADGU10S/B

Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



Code	Lamp	Description
ADGU10S/W	GU10	White
ADGU10S/B	GU10	Black
ADGU10S/SS	GU10	Satin Silver

Accessories	Code	Description
AMON/GU10/W	Surface Monopoint - White	
AMON/GU10/B	Surface Monopoint - Black	
AMON/GU10/SS	Surface Monopoint - Satin Silver	



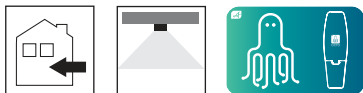
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# Single Circuit Zita 50W GU10 Mains

Supplied Less Lamp

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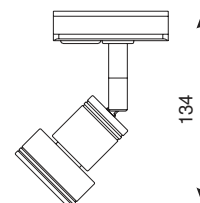


AZGU10S/W



AZGU10S/SS  
Fitted Trim Ring

- Modern sleek spotlight with option of trim ring to encapsulate lamp
- 355° rotation, spot head tilt angle to 90°



Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



Code	Lamp	Description
AZGU10S/W	GU10	White
AZGU10S/SS	GU10	Satin Silver

<b>Accessories</b>	<b>AMON/GU10/W</b>	Surface Monopoint - White
	<b>AMON/GU10/SS</b>	Surface Monopoint - Satin Silver

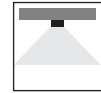
<b>AZTR/W</b>	Trim Ring - White
<b>AZTR/SS</b>	Trim Ring - Satin Silver



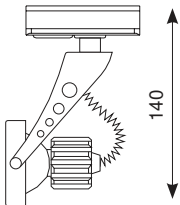
# Single Circuit Lanzia 50W GU10 Mains

Supplied Less Lamp

- 355 degree rotation, spot head tilt angle to 90°



171



ALGU10S/B

Mains Voltage  
Track Mounted



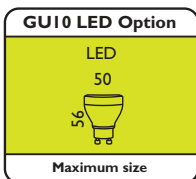
Mains Surface  
Monopoint



ALGU10S/SS



ALGU10S/W



Code	Lamp	Description
ALGU10S/W	GU10	White
ALGU10S/B	GU10	Black
ALGU10S/SS	GU10	Satin Silver

Accessories	Code	Description
AMON/GU10/W	Surface Monopoint - White	
AMON/GU10/B	Surface Monopoint - Black	
AMON/GU10/SS	Surface Monopoint - Satin Silver	



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**Project - Paper Assist**  
Dublin, Ireland

# Mains Voltage 16A Single Circuit Track

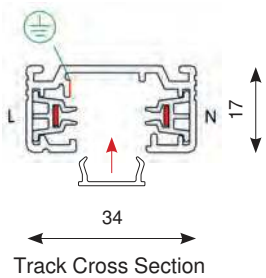
Supplied c/w Live and Dead End



- 240V 16A mains track system for low voltage and mains fittings
- Option of surface mounting or suspended
- Track supplied c/w live end (Earth left) and dead end
- Maximum mechanical loading of 50N
- Track inserts can be cut to desirable lengths



Generous Terminal Capacity



Single Circuit Track Insert



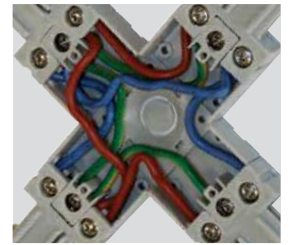
	Code	Description
<b>1 Metre</b>	<b>AMT1/W</b>	1 Metre - White
	<b>AMT1/B</b>	1 Metre - Black
	<b>AMT1/SS</b>	1 Metre - Satin Silver
<b>2 Metre</b>	<b>AMT2/W</b>	2 Metre - White
	<b>AMT2/B</b>	2 Metre - Black
	<b>AMT2/SS</b>	2 Metre - Satin Silver
<b>Accessories</b>	<b>AMTINS/W</b>	2 Metre - White Track Insert
	<b>AMTINS/B</b>	2 Metre - Black Track Insert
	<b>AMTINS/SS</b>	2 Metre - Satin Silver Track Insert






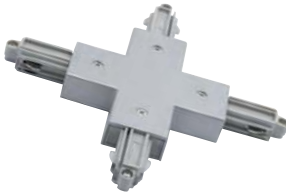


# Mains Voltage 16A Single Circuit Track Accessories



- Extensive range of accessories for track and track packs
- Option of left and right feed for Live end, L and T connectors



Flexible incoming wiring access

	Code	Description
	<b>AMTLE/PL/W</b>	White
	<b>AMTLE/PL/B</b>	Black
	<b>AMTLE/PL/SS</b>	Satin Silver
	<b>AMTLE/PR/W</b>	White
	<b>AMTLE/PR/B</b>	Black
	<b>AMTLE/PR/SS</b>	Satin Silver
	<b>AMTBC/W</b>	White
	<b>AMTBC/B</b>	Black
	<b>AMTBC/SS</b>	Satin Silver
	<b>AMTSC/W</b>	White
	<b>AMTSC/B</b>	Black
	<b>AMTSC/SS</b>	Satin Silver
	<b>AMTXC/W</b>	White
	<b>AMTXC/B</b>	Black
	<b>AMTXC/SS</b>	Satin Silver
	<b>AMTDE/W</b>	White
	<b>AMTDE/B</b>	Black
	<b>AMTDE/SS</b>	Satin Silver





Surface Monopoint with  
Unity 2 LED Mains fitting

# Mains Voltage 16A Single Circuit Track Accessories

- Extensive range of accessories for track and track packs
- Option of left and right feed for Live end, L and T connectors



Code Description



L Connector -  
Earth Inside

AMTLC/PI/W White  
AMTLC/PI/B Black  
AMTLC/PI/SS Satin Silver



L Connector -  
Earth Outside

AMTLC/PO/W White  
AMTLC/PO/B Black  
AMTLC/PO/SS Satin Silver



6A Track Adaptor  
c/w cable clamp

AMTA/W White  
AMTA/B Black  
AMTA/SS Satin Silver



Flexible  
Connector

AMTFC/W White  
AMTFC/B Black  
AMTFC/SS Satin Silver



Suspension  
Kit

AMTSK c/w 3metre Steel Chord



Surface  
Monopoint

AMON/GU10/W White  
AMON/GU10/B Black  
AMON/GU10/SS Satin Silver

(Diameter 120mm x Depth 25mm)

# Single Circuit Track Planning System

- Choice of left or right earth connection for complex installations
- Adjacent diagram provides an illustration of correct accessory selection



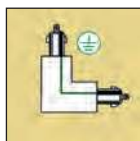
Live End Earth Left



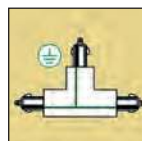
Live End Earth Right



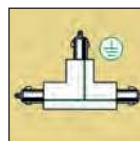
L Connector Earth Outside



L Connector Earth Inside

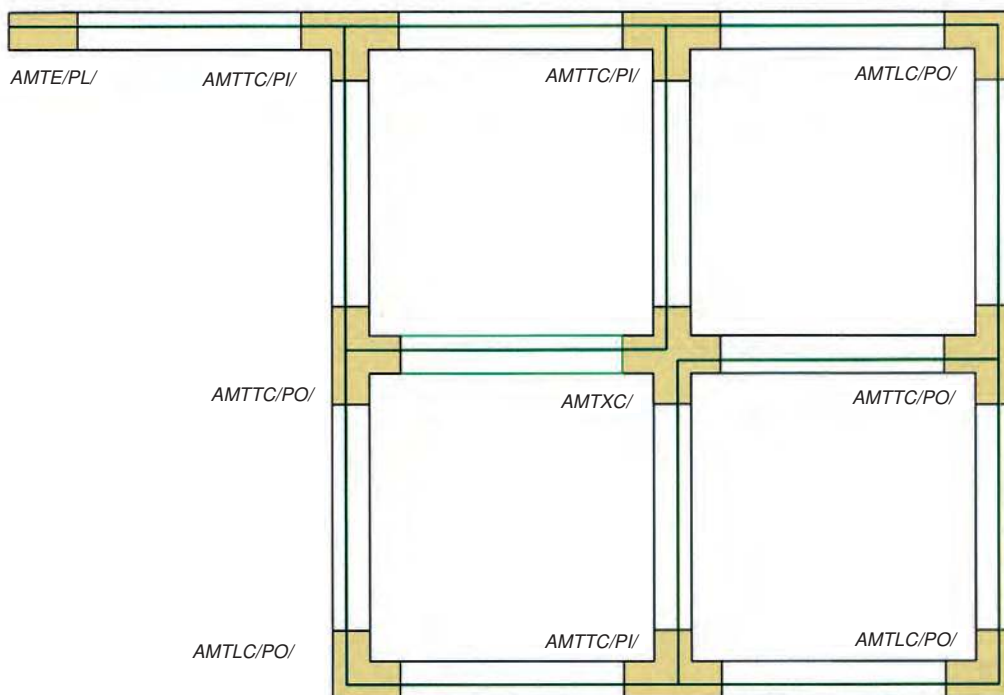


T Connector Earth Left



T Connector Earth Right

## Example of correct accessory selection



# Single Circuit Low Profile Unity 1 LED Track

Supplied c/w Integral Driver

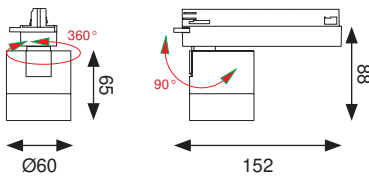
- Low profile LED trackspot with integral driver
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector for optimum efficiency
- Microprism diffuser for visual comfort and uniformity
- LED lifespan L80 68,000 hours
- Non-dimmable



AULEDLP1/W



AULEDLP1/B



## LED Information

Total (Watts)	12W
Lumens Delivered	
Cool White	632lm
Warm White	623lm
Lm/W Cool White	53lm
Lm/W Warm White	52lm
Beam Angle	27°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
AULEDLP1/W	LED	12W - Cool White - White
AULEDLP1/B	LED	12W - Cool White - Black
AULEDLP1/WW/W	LED	12W - Warm White - White
AULEDLP1/WW/B	LED	12W - Warm White - Black
AMON/GU10/W	Surface Monopoint	White
AMON/GU10/B	Surface Monopoint	Black
AMON/GU10/SS	Surface Monopoint	Satin Silver



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# Single Circuit Low Profile Unity 2 LED Track

Supplied c/w Integral driver

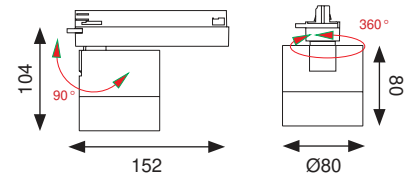


AULEDLP2/W



AULEDLP2/B

- Low profile LED trackspot with integral driver
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector for optimum efficiency
- Microprism diffuser for visual comfort and uniformity
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description
<b>AULEDLP2/W</b>	LED	22W - Cool White - White
<b>AULEDLP2/B</b>	LED	22W - Cool White - Black
<b>AULEDLP2/WW/W</b>	LED	22W - Warm White - White
<b>AULEDLP2/WW/B</b>	LED	22W - Warm White - Black
<b>AMON/GU10/W</b>	Surface Monopoint	White
<b>AMON/GU10/B</b>	Surface Monopoint	Black
<b>AMON/GU10/SS</b>	Surface Monopoint	Satin Silver

### LED Information

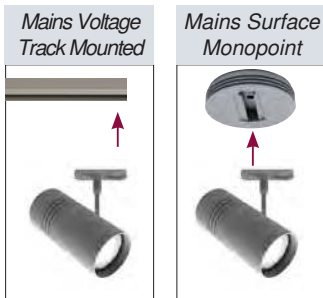
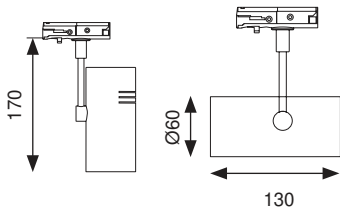
Total (Watts)	22W
Lumens Delivered	
Cool White	1564lm
Warm White	1426lm
Lm/W Cool White	71lm
Lm/W Warm White	65lm
Beam Angle	26°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C



# Single Circuit Unity 0 LED Mains

Supplied c/w Integral Driver

- Compact LED trackspot with integral driver
- True 50W halogen replacement
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design for visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	691lm
Warm White	629lm
Lm/W Cool White	69lm
Lm/W Warm White	63lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C



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AULEDS0/CW/W



AULEDS0/CW/B



AULEDS0/CW/SS

Code	Lamp	Description
AULEDS0/CW/W	LED	10W - Cool White - White
AULEDS0/CW/B	LED	10W - Cool White - Black
AULEDS0/CW/SS	LED	10W - Cool White - Satin Silver
AULEDS0/WW/W	LED	10W - Warm White - White
AULEDS0/WW/B	LED	10W - Warm White - Black
AULEDS0/WW/SS	LED	10W - Warm White - Satin Silver
<b>Accessories</b>	<b>AMON/GU10/W</b>	Surface Monopoint - White
	<b>AMON/GU10/B</b>	Surface Monopoint - Black
	<b>AMON/GU10/SS</b>	Surface Monopoint - Satin Silver
	<b>AUTRA/50/40</b>	50mm 40° Reflector Accessory



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# Single Circuit Unity 1 LED Mains

Supplied c/w Integral Driver

180



AULEDS1/W

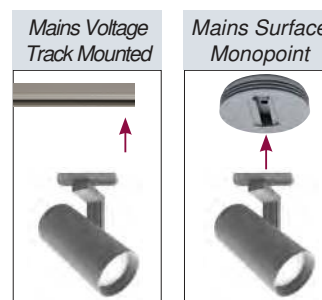
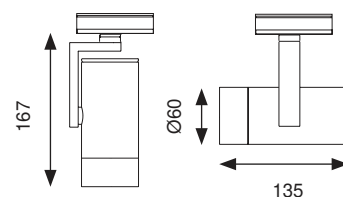


AULEDS1/B



AULEDS1/SS

- Compact LED trackspot with integral driver
- Comparable performance to 100W halogen
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description
AULEDS1/W	LED	15W - Cool White - White
AULEDS1/B	LED	15W - Cool White - Black
AULEDS1/SS	LED	15W - Cool White - Satin Silver
AULEDS1/WW/W	LED	15W - Warm White - White
AULEDS1/WW/B	LED	15W - Warm White - Black
AULEDS1/WW/SS	LED	15W - Warm White - Satin Silver

Accessories	Code	Description
	AMON/GU10/W	Surface Monopoint - White
	AMON/GU10/B	Surface Monopoint - Black
	AMON/GU10/SS	Surface Monopoint - Satin Silver
	AUTRA/50/40	50mm 40° Reflector Accessory

## LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	941lm
Warm White	938lm
Lm/W Cool White	63lm
Lm/W Warm White	63lm
Beam Angle	19°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





**Project - Synecco**  
Galway, Ireland

# Single Circuit Unity 2 LED Mains

Supplied c/w Integral Driver



AULEDS2/W

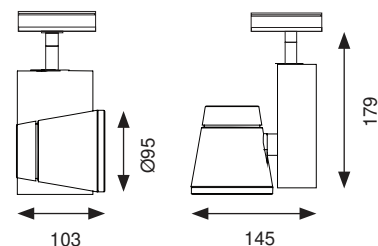


AULEDS2/B

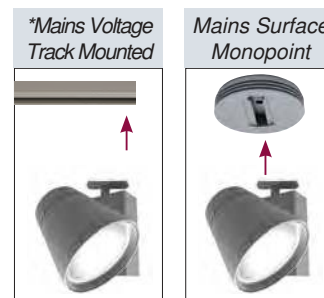


AULEDS2/SS

- LED trackspot with integral driver
- Comparable performance to 70W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



\*Suitable for suspension in a closed continuous installation e.g square/rectangular



Code	Lamp	Description
AULEDS2/W	LED	29W - Cool White - White
AULEDS2/B	LED	29W - Cool White - Black
AULEDS2/SS	LED	29W - Cool White - Satin Silver

AULEDS2/WW/W	LED	29W - Warm White - White
AULEDS2/WW/B	LED	29W - Warm White - Black
AULEDS2/WW/SS	LED	29W - Warm White - Satin Silver

Accessories	Code	Description
	AMON/GU10/W	Surface Monopoint - White
	AMON/GU10/B	Surface Monopoint - Black
	AMON/GU10/SS	Surface Monopoint - Satin Silver
	AUTRA/80/20	80mm 20° Reflector Accessory
	AUTRA/80/70	80mm 70° Reflector Accessory

## LED Information

Total (Watts)	29W
Lumens Delivered	
Cool White	2699lm
Warm White	2497lm
Lm/W Cool White	93lm
Lm/W Warm White	86lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C







**Project - Simple Gym**  
Cwmbran, UK

# Single Circuit Unity 3 LED Mains

Supplied c/w Integral Driver

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AULEDS3/W

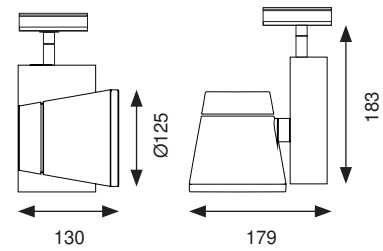


AULEDS3/B

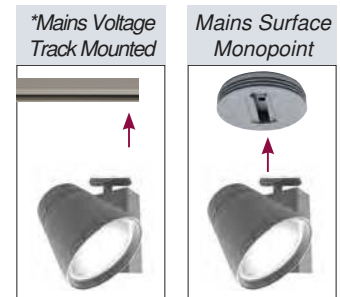


AULEDS3/SS

- LED trackspot with integral driver
- Comparable performance to 100W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



\*Suitable for suspension in a closed continuous installation e.g square/rectangular



Code	Lamp	Description
AULEDS3/W	LED	37W - Cool White - White
AULEDS3/B	LED	37W - Cool White - Black
AULEDS3/SS	LED	37W - Cool White - Satin Silver
AULEDS3/WW/W	LED	37W - Warm White - White
AULEDS3/WW/B	LED	37W - Warm White - Black
AULEDS3/WW/SS	LED	37W - Warm White - Satin Silver

Accessories	Code	Description
	AMON/GU10/W	Surface Monopoint - White
	AMON/GU10/B	Surface Monopoint - Black
	AMON/GU10/SS	Surface Monopoint - Satin Silver
	AUTRA/110/20	110mm 20° Reflector Accessory
	AUTRA/110/60	110mm 60° Reflector Accessory

## LED Information

Total (Watts)	37W
Lumens Delivered	
Cool White	3239lm
Warm White	2887lm
Cool White Lm/W	88lm
Warm White Lm/W	78lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



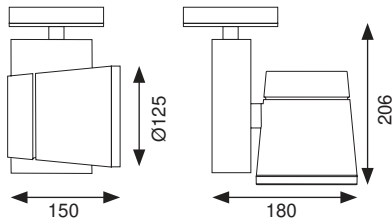
# Single Circuit Unity 4 LED Mains

Supplied c/w Integral Driver

- LED trackspot with integral driver
- Comparable performance to 150W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



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\*Suitable for suspension in a closed continuous installation e.g square/rectangular



AULEDS4/W



AULEDS4/B



AULEDS4/SS

## LED Information

Total (Watts)	42W
Lumens Delivered	
Cool White	3922lm
Warm White	3709lm
Cool White Lm/W	93lm
Warm White Lm/W	88lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
AULEDS4/W	LED	42W - Cool White - White
AULEDS4/B	LED	42W - Cool White - Black
AULEDS4/SS	LED	42W - Cool White - Satin Silver
AULEDS4/WW/W	LED	42W - Warm White - White
AULEDS4/WW/B	LED	42W - Warm White - Black
AULEDS4/WW/SS	LED	42W - Warm White - Satin Silver
<b>Accessories</b>		
AMON/GU10/W		Surface Monopoint - White
AMON/GU10/B		Surface Monopoint - Black
AMON/GU10/SS		Surface Monopoint - Satin Silver
AUTRA/110/20		110mm 20° Reflector Accessory
AUTRA/110/60		110mm 60° Reflector Accessory



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# Single Circuit Unity Wallwash LED Mains

Supplied c/w Integral Driver

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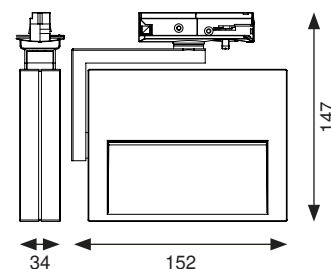
AULEDSW/CW/W

Powered by



AULEDSW/WW/B

- Ultra-modern LED wallwash trackspot with integral driver
- Comparable performance to 35W halogen
- 355° rotation with 0-180° tilt on the bracket
- Unique reflector design enhances distribution for maximum efficiency and light output
- LED lifespan L70 50,000 hours
- Triac dimmable



## LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	529lm
Warm White	487lm
Lm/W Cool White	31lm
Lm/W Warm White	28lm
Beam Angle	76°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
AULEDSW/CW/W	LED	17W - Cool White - White
AULEDSW/CW/B	LED	17W - Cool White - Black
AULEDSW/WW/W	LED	17W - Warm White - White
AULEDSW/WW/B	LED	17W - Warm White - Black
<b>Accessories</b>	<b>AMON/GU10/W</b>	Surface Monopoint - White
	<b>AMON/GU10/B</b>	Surface Monopoint - Black





**Project - The Yard**  
Manchester, UK

# Three Circuit

## Track and Surface System with Push-fit and Lock Connection

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Mains Track  
Accessories



193

Unity 0 LED Mains



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Unity 1 LED Mains



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Unity 2 LED Mains



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Unity 3 LED Mains



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Unity 4 LED Mains



200

Compass LED Adjustable  
Projector Track

# Mains Voltage 16A Three Circuit Track

Supplied c/w Live and Dead End

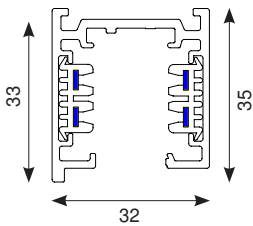


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- 240V 16A mains track system
- Three circuit connectivity provides multiple group switching options
- Option of surface mounting or suspended
- Track supplied c/w live end (Earth left) and dead end
- Maximum mechanical loading of 50N



Generous Terminal Capacity



Track Cross Section



	Code	Description
<b>1 Metre</b>	<b>A/3MT1/W</b>	1 Metre - White
	<b>A/3MT1/B</b>	1 Metre - Black
	<b>A/3MT1/SS</b>	1 Metre - Satin Silver
<b>2 Metre</b>	<b>A/3MT2/W</b>	2 Metre - White
	<b>A/3MT2/B</b>	2 Metre - Black
	<b>A/3MT2/SS</b>	2 Metre - Satin Silver
<b>Accessories</b>	<b>AMTINS/W</b>	2 Metre - White Track Insert
	<b>AMTINS/B</b>	2 Metre - Black Track Insert
	<b>AMTINS/SS</b>	2 Metre - Satin Silver Track Insert



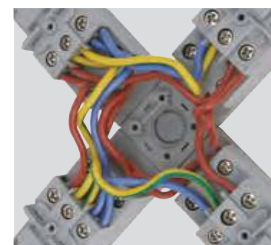
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# Mains Voltage 16A Three Circuit Track Accessories



- Extensive range of accessories
- Option of left and right feed for Live end, L and T connectors



Flexible incoming wiring access




	Code	Description
	<b>A/3MTLE/PL/W</b>	White
	<b>A/3MTLE/PL/B</b>	Black
	<b>A/3MTLE/PL/SS</b>	Satin Silver
	<b>A/3MTLE/PR/W</b>	White
	<b>A/3MTLE/PR/B</b>	Black
	<b>A/3MTLE/PR/SS</b>	Satin Silver
	<b>A/3MTBC/W</b>	White
	<b>A/3MTBC/B</b>	Black
	<b>A/3MTBC/SS</b>	Satin Silver
	<b>A/3MTSC/W</b>	White
	<b>A/3MTSC/B</b>	Black
	<b>A/3MTSC/SS</b>	Satin Silver
	<b>A/3MTXC/W</b>	White
	<b>A/3MTXC/B</b>	Black
	<b>A/3MTXC/SS</b>	Satin Silver
	<b>A/3MTDE/W</b>	White
	<b>A/3MTDE/B</b>	Black
	<b>A/3MTDE/SS</b>	Satin Silver



# Mains Voltage 16A Three Circuit Track Accessories

- Extensive range of accessories
- Option of left and right feed for Live end, L and T connectors



	Code	Description
	A/3MTLC/PI/W	White
	A/3MTLC/PI/B	Black
	A/3MTLC/PI/SS	Satin Silver
	A/3MTLC/PO/W	White
	A/3MTLC/PO/B	Black
	A/3MTLC/PO/SS	Satin Silver
	A/3MTTC/PI/W	White
	A/3MTTC/PI/B	Black
	A/3MTTC/PI/SS	Satin Silver
	A/3MTTC/PO/W	White
	A/3MTTC/PO/B	Black
	A/3MTTC/PO/SS	Satin Silver
	A/3MTA/W	White
	A/3MTA/B	Black
	A/3MTA/SS	Satin Silver
	A/3MTFC/W	White
	A/3MTFC/B	Black
	A/3MTFC/SS	Satin Silver
	A/3MTSK	c/w 3metre Steel Chord
	A/3MON/GU10/W	White
	A/3MON/GU10/B	Black
	A/3MON/GU10/SS	Satin Silver
	(Diameter 125mm x Depth 32mm)	



# Three Circuit Track Planning System

- Choice of left or right earth connection for complex installations
- Adjacent diagram provides an illustration of correct accessory selection



Live End Earth Left



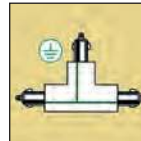
Live End Earth Right



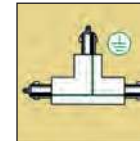
L Connector Earth Outside



L Connector Earth Inside

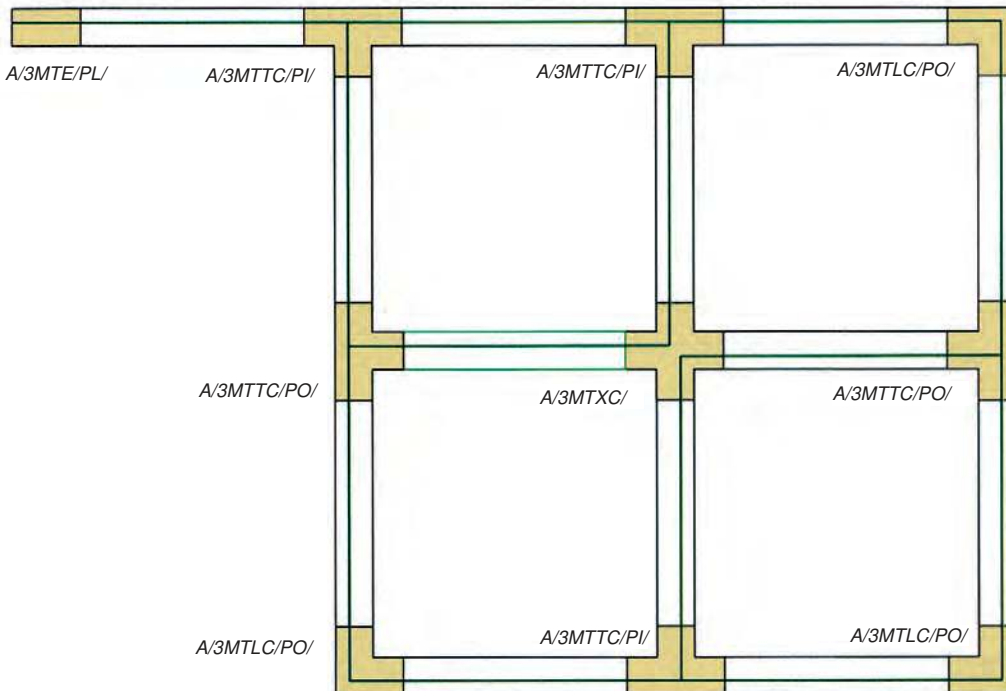


T Connector Earth Left



T Connector Earth Right

## Example of correct accessory selection



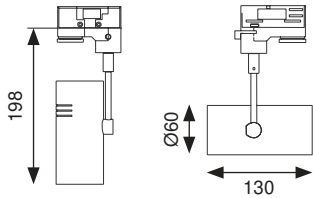
# Three Circuit Unity 0 LED Mains

Supplied c/w Integral Driver

- Compact LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- True 50W halogen replacement
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design for visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



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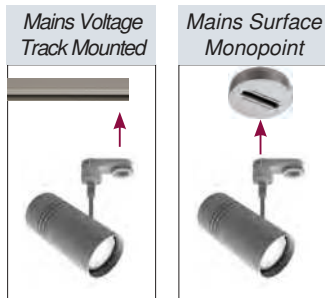
A/3ULEDS0/CW/W



A/3ULEDS0/CW/B



A/3ULEDS0/CW/SS



## LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	691lm
Warm White	629lm
Lm/W Cool White	69lm
Lm/W Warm White	63lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
A/3ULEDS0/CW/W	LED	10W - Cool White - White
A/3ULEDS0/CW/B	LED	10W - Cool White - Black
A/3ULEDS0/CW/SS	LED	10W - Cool White - Satin Silver
A/3ULEDS0/WW/W	LED	10W - Warm White - White
A/3ULEDS0/WW/B	LED	10W - Warm White - Black
A/3ULEDS0/WW/SS	LED	10W - Warm White - Satin Silver
A/3MON/GU10/W		Surface Monopoint - White
A/3MON/GU10/B		Surface Monopoint - Black
A/3MON/GU10/SS		Surface Monopoint - Satin Silver
AUTRA/50/40		50mm 40° Reflector Accessory



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# Three Circuit Unity 1 LED Mains

Supplied c/w Integral Driver

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A/3ULEDS1/W



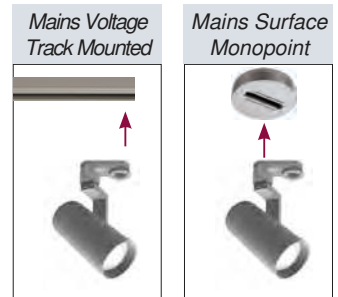
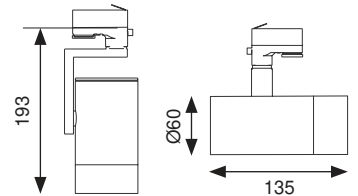
A/3ULEDS1/B



A/3ULEDS1/SS



- Compact LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- Comparable performance to 100W halogen
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description
A/3ULEDS1/W	LED	15W - Cool White - White
A/3ULEDS1/B	LED	15W - Cool White - Black
A/3ULEDS1/SS	LED	15W - Cool White - Satin Silver
A/3ULEDS1/WW/W	LED	15W - Warm White - White
A/3ULEDS1/WW/B	LED	15W - Warm White - Black
A/3ULEDS1/WW/SS	LED	15W - Warm White - Satin Silver

Accessories	Code	Description
	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	A/3MON/GU10/SS	Surface Monopoint - Satin Silver
	AUTRA/50/40	50mm 40° Reflector Accessory

## LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	946lm
Warm White	938lm
Lm/W Cool White	63lm
Lm/W Warm White	63lm
Beam Angle	19°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





**Project - Kommune**  
Sheffield, UK



**Project - Paper Assist**  
Dublin, Ireland

# Three Circuit Unity 2 LED Mains

Supplied c/w Integral Driver

- LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- Comparable performance to 70W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



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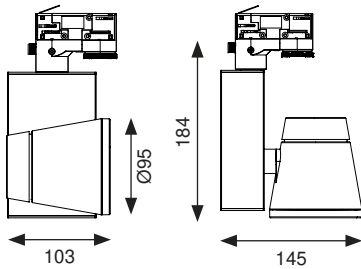
A/3ULEDS2/W



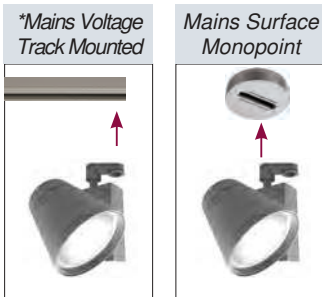
A/3ULEDS2/B



A/3ULEDS2/SS



\*Suitable for suspension in a closed continuous installation e.g square/rectangular



## LED Information

Total (Watts)	29W
Lumens Delivered	
Cool White	2699lm
Warm White	2497lm
Lm/W Cool White	93lm
Lm/W Warm White	86lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
A/3ULEDS2/W	LED	29W - Cool White - White
A/3ULEDS2/B	LED	29W - Cool White - Black
A/3ULEDS2/SS	LED	29W - Cool White - Satin Silver
A/3ULEDS2/WW/W	LED	29W - Warm White - White
A/3ULEDS2/WW/B	LED	29W - Warm White - Black
A/3ULEDS2/WW/SS	LED	29W - Warm White - Satin Silver
<b>Accessories</b>		
A/3MON/GU10/W		Surface Monopoint - White
A/3MON/GU10/B		Surface Monopoint - Black
A/3MON/GU10/SS		Surface Monopoint - Satin Silver
AUTRA/80/20		80mm 20° Reflector Accessory
AUTRA/80/70		80mm 70° Reflector Accessory



# Three Circuit Unity 3 LED Mains

Supplied c/w Integral Driver

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A/3ULEDS3/W

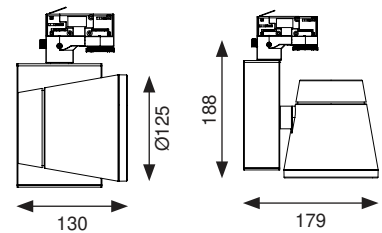


A/3ULEDS3/B

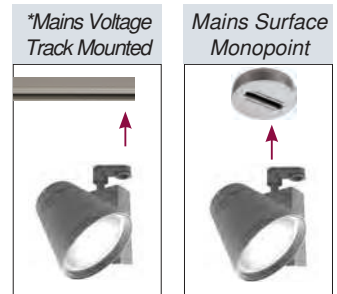


A/3ULEDS3/SS

- LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- Comparable performance to 100W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



\*Suitable for suspension in a closed continuous installation e.g square/rectangular



Code	Lamp	Description
A/3ULEDS3/W	LED	37W - Cool White - White
A/3ULEDS3/B	LED	37W - Cool White - Black
A/3ULEDS3/SS	LED	37W - Cool White - Satin Silver

A/3ULEDS3/WW/W	LED	37W - Warm White - White
A/3ULEDS3/WW/B	LED	37W - Warm White - Black
A/3ULEDS3/WW/SS	LED	37W - Warm White - Satin Silver

Accessories	Code	Description
	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	A/3MON/GU10/SS	Surface Monopoint - Satin Silver
	AUTRA/110/20	110mm 20° Reflector Accessory
	AUTRA/110/60	110mm 60° Reflector Accessory

## LED Information

Total (Watts)	37W
Lumens Delivered	
Cool White	3239lm
Warm White	2887lm
Cool White Lm/W	88lm
Warm White Lm/W	78lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





# Three Circuit Unity 4 LED Mains

Supplied c/w Integral Driver

- LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- Comparable performance to 150W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Powered by Osram
- Anti-glare design to create visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



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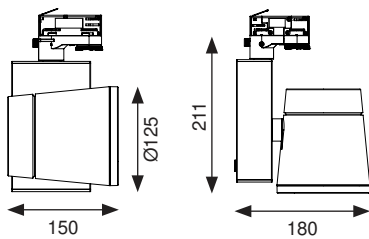
A/3ULEDS4/W



A/3ULEDS4/B



A/3ULEDS4/SS



\*Suitable for suspension in a closed continuous installation e.g square/rectangular

\*Mains Voltage Track Mounted



Mains Surface Monopoint



## LED Information

Total (Watts)	42W
Lumens Delivered	
Cool White	3922lm
Warm White	3709lm
Cool White Lm/W	93lm
Warm White Lm/W	88lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
A/3ULEDS4/W	LED	42W - Cool White - White
A/3ULEDS4/B	LED	42W - Cool White - Black
A/3ULEDS4/SS	LED	42W - Cool White - Satin Silver
A/3ULEDS4/WW/W	LED	42W - Warm White - White
A/3ULEDS4/WW/B	LED	42W - Warm White - Black
A/3ULEDS4/WW/SS	LED	42W - Warm White - Satin Silver

Accessories	Code	Description
	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	A/3MON/GU10/SS	Surface Monopoint - Satin Silver
	AUTRA/110/20	110mm 20° Reflector Accessory
	AUTRA/110/60	110mm 60° Reflector Accessory



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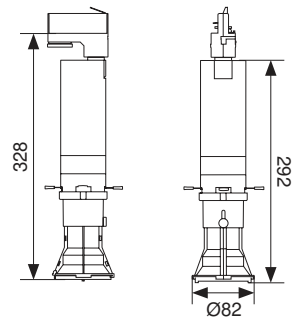


# Three Circuit Compass LED Adjustable Projector Mains

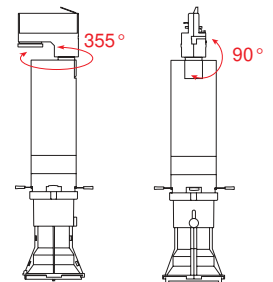
Supplied c/w Integral Driver



- Three circuit adjustable LED track projector
- Ideal for museums and art galleries
- Fully adjustable telescopic lens allows for exhibition framing
- Focus can be adjusted to allow for a softer frame or a sharp clear frame.
- Round, square, rectangular and triangular beam shapes customised via 4 individual controls
- 355° rotation with 0-90° tilt on the bracket
- LED lifespan L70 50,000 hours
- Non-dimmable



### Rotate and Tilt



Luminaire Installation Guide					
Shape	Distance	1M	2M	3M	4M
		Max: Ø	50cm	110cm	165cm
	Max: □	35cmx35cm	75cmx75cm	120cmx120cm	156cmx156cm

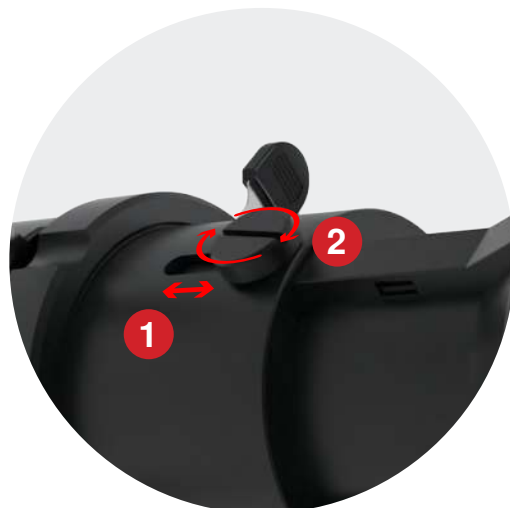
\* The above shapes and dimensions are measured and sampled while the axis of the Compass LED is precisely vertical to the projected facade

### LED Information

Total (Watts)	15W	19W
Lumens Delivered		
Cool White	356lm	479lm
Warm White	360lm	480lm
Lm/W Cool White	24lm	25lm
Lm/W Warm White	24lm	25lm
CRI	Ra 90	
CCT	3000K 4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 25°C	

Code	Lamp	Description
ACOMAPLED1	LED	15W - Cool White
ACOMAPLED2	LED	19W - Cool White - High Output

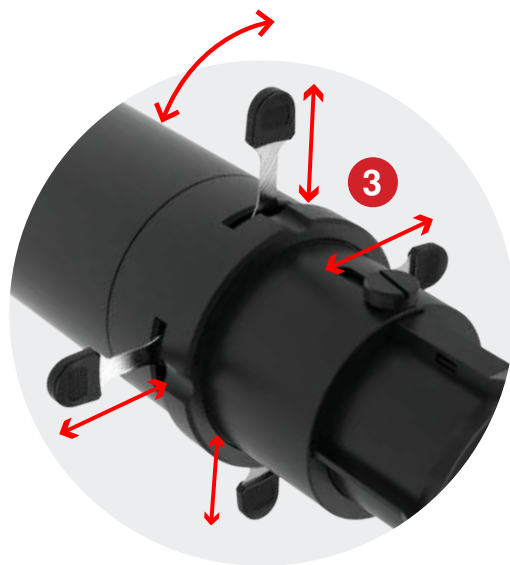




### 1 Adjustable

### 2 Focal Distance

Adjusting the focal distance will increase the sharpness of the light. The distance can be adjusted by moving the screw back and forth, and fixed by tightening the screw



### 3 Shaping the Light Output

The shape of the light can be manipulated to create round, square, rectangular and triangular light outputs. This is achieved by altering the 4 flap panels both in and out and left to right, as shown in the diagram above

# Unity 0 Surface LED Mains

Supplied c/w Integral Driver



ASSULED0/CW/W

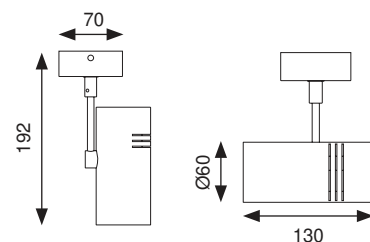


ASSULED0/CW/B



ASSULED0/CW/SS

- Compact Surface Mounting LED spotlight with integral driver
- True 50W halogen replacement
- 355° rotation with 0-180° tilt on bracket
- Mirror finish anodised reflector
- Anti-glare design for visual comfort
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description
ASSULED0/CW/W	LED	10W - Cool White - White
ASSULED0/CW/B	LED	10W - Cool White - Black
ASSULED0/CW/SS	LED	10W - Cool White - Satin Silver

**Accessories** AUTRA/50/40 50mm 40° Reflector Accessory

### LED Information

Total (Watts)	10W
Lumens Delivered	691lm
Lm/W	69lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C



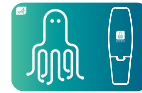




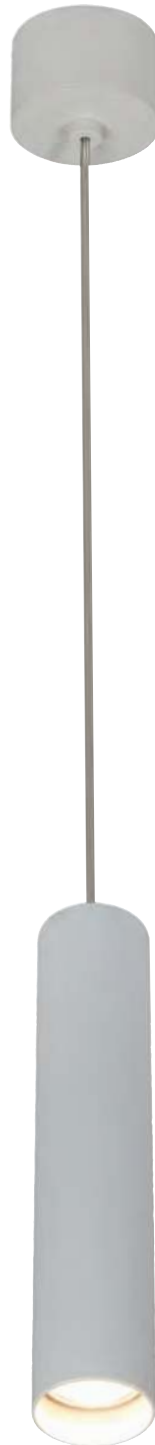
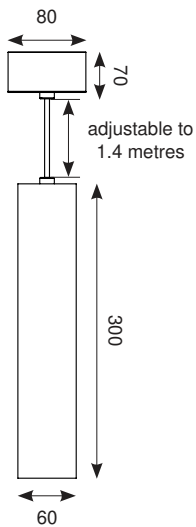
**Project - Commercial Development**  
Golborne, UK

# Ruby LED

Supplied c/w Integral Driver



- Slim and modern LED pendant with die-cast housing
- White and black paint finish options with white bottom cover
- Suitable for hotel, restaurant and commercial applications
- Exceeds performance of 42W PLC
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



ARULEDP/WW/W



ARULEDP/WW/B

### LED Information

Total (Watts)	15W
Lumens Delivered	1029lm
Lm/W	64lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
------	------	-------------

<b>ARULEDP/WW/W</b>	LED	15W - Warm White - White
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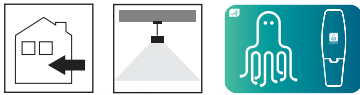
<b>ARULEDP/WW/B</b>	LED	15W - Warm White - Black
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# Secco LED

Supplied c/w Amber Coated LED Filament Lamp

206

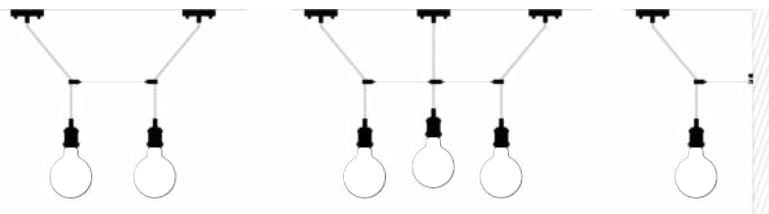


ASEC/G125/BLC

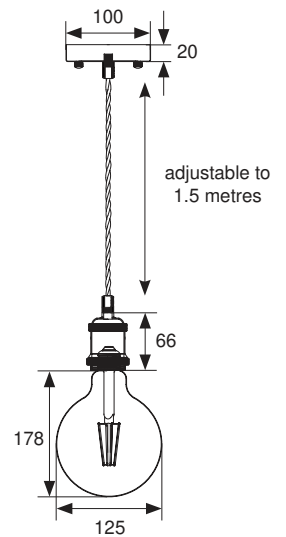


ASEC/G125/AB

### Suspension options



- Die-cast vintage pendant design with soft amber coated glass
- Supplied c/w amber coated G125 LED filament lamp and suspension accessory
- Suitable for residential, hotel or restaurant applications
- Available in black chrome and antique brass finishes
- LED lifespan L70 20,000 hours
- Triac dimmable as standard



Code	Lamp	Description
ASEC/G125/BLC	LED	7.5W - Amber Coating - Black Chrome
ASEC/G125/AB	LED	7.5W - Amber Coating - Antique Brass

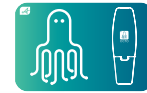
**Accessories** ALED/6W/G125/2500K LED Filament Replacement Lamp

### LED Information

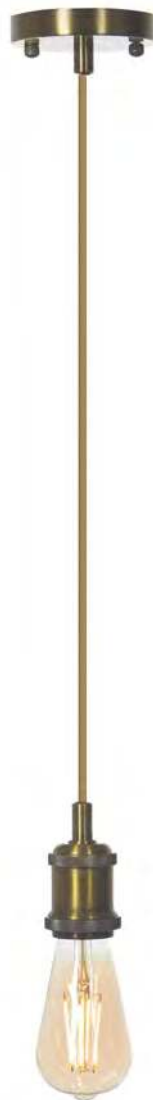
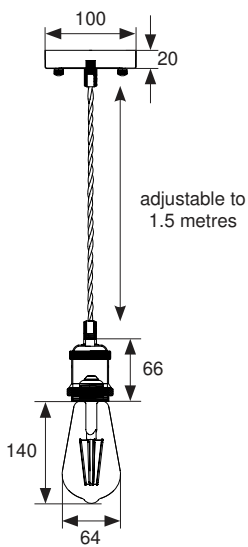
Total (Watts)	7.5W
Lumens Delivered	779lm
CRI	Ra 80
CCT	2500K
Input	230V
Hertz	50Hz







- Die-cast vintage pendant design with soft amber coated glass
- Supplied c/w amber coated ST64 LED filament lamp and suspension accessory
- Suitable for residential, hotel or restaurant applications
- Available in black chrome and antique brass finishes
- LED lifespan L70 20,000 hours
- Triac dimmable as standard

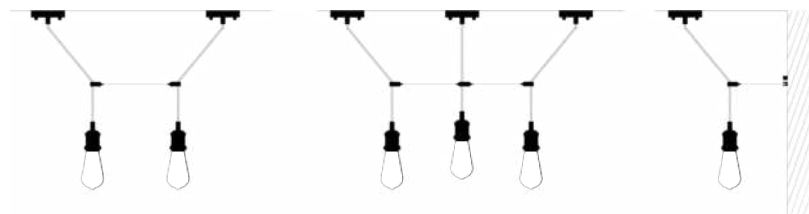


ASEC/ST64/AB



ASEC/ST64/BLC

### Suspension options



### LED Information

Total (Watts)	7.5W
Lumens Delivered	696lm
CRI	Ra 80
CCT	2500K
Input	230V
Hertz	50Hz

Code	Lamp	Description
ASEC/ST64/BLC	LED	7.5W - Amber Coating - Black Chrome
ASEC/ST64/AB	LED	7.5W - Amber Coating - Antique Brass

**Accessories** ALED/6W/ST64/2500K LED Filament Replacement Lamp





**Project - Lakes College**  
Workington, UK

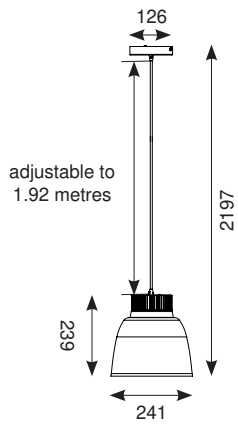
# Decco LED

Supplied c/w Integral Driver



209

- Compact Decco pendant with die-cast housing and aluminium reflector
- Suitable for domestic, hotel, restaurant and commercial applications
- Matt white textured powder coat paint finish
- 21W exceeds performance of 35W HQI
- LED lifespan L70 54,000 hours
- Non-dimmable



## LED Information

Total (Watts)	21W
Lumens Delivered	
21W	1784lm
Lm/W 21W	85lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 35°C



Code	Lamp	Description
ADEPLED	LED	21W - Warm White

Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750



# Deco High Bay LED

Supplied c/w Integral Driver

210



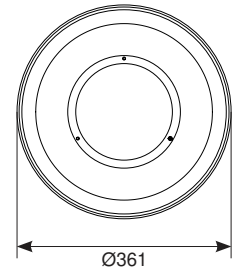
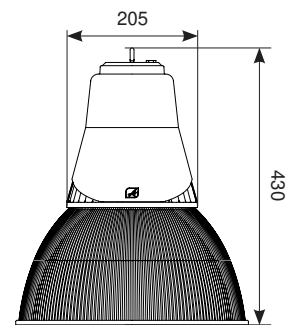
ADHBLED1/PC

Powered by  
**TRIDONIC**  
enlightening your ideas



ADHBLED2/ALU

- Decorative modern LED pendant c/w either polycarbonate refractor or aluminium reflector
- Suitable for industrial, commercial and retail applications
- 41W exceeds performance of 70W HQI
- 96W exceeds performance of 150W HQI
- Matt grey textured powder coated finish
- LED lifespan L70 54,000 hours



## LED Information

Total (Watts)	41W	96W
Lumens Delivered		
/ALU	4760lm	10437lm
/PC	4678lm	10375lm
Lm/W		
/ALU	114lm	109lm
/PC	116lm	108lm
Beam Angle		
/PC		68°
/ALU		63°
CRI		Ra 80
CCT		4000K
Input		230V
Hertz		50/60Hz
Operating Temp		-20°C to 25°C

Code	Lamp	Description
<b>ADHBLED1/PC</b>	LED	41W - c/w PC Refractor
<b>ADHBLED2/PC</b>	LED	96W - c/w PC Refractor
<b>ADHBLED1/ALU</b>	LED	41W - c/w Aluminium Reflector
<b>ADHBLED2/ALU</b>	LED	96W - c/w Aluminium Reflector
<b>Options</b>	<b>/DD</b>	Digital dimming (DD1/DD2/DD3/DD4)
<b>Accessories</b>	<b>ADHBLED/PC/BC</b>	PC Bottom Cover (360mm)
	<b>ADHBLED/SK</b>	Suspension Kit



Hook Mounting installation

Aluminium Die-cast housing providing an ultra modern aesthetic design

Steel sheet metal gear tray.

Intricate design allows heat dispersion upwards through dedicated ventilation holes

Lumileds LED array

Aluminium securing ring

Powered by **TRIDONIC**  
▼ enlightening your ideas

Aluminium die-cast heat sink for optimal thermal performance

Textured freznel lens to optimise light output and light uniformity

Polycarbonate Refractor to achieve overall light distribution

Aluminium Reflector for maximum output efficiency



Bottom cover available for reduced glare and additional light diffusion for food applications

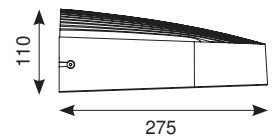
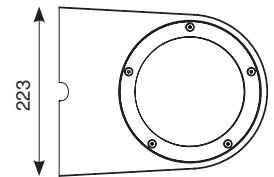
# Aero LED

Supplied c/w Integral Driver

212



- Dual purpose design allows installation in either an upright or downlight orientation
- Comparable performance to 20W HQI
- Housing is manufactured from high purity marine grade aluminium and treated with a six stage chrome plating treatment and dry polyester powder coating
- Screws manufactured from marine grade stainless steel
- Tempered glass cover
- LED lifespan L70 50,000 hours
- Non-dimmable

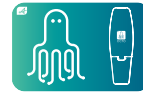


## LED Information

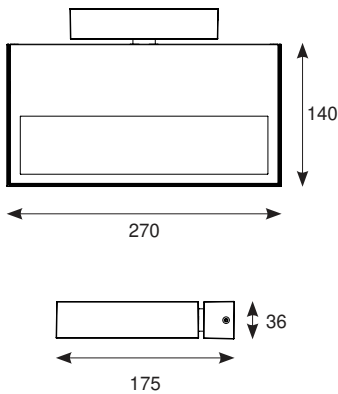
Total (Watts)	12W
Lumens Delivered	900lm
Lm/W	75lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
<b>AAROLED</b>	LED	12W - Cool White





- Dual purpose design allows installation in either an uplight or downlight orientation
- Comparable to 2x24W PL-L
- Adjustable tiltable installation bracket
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



Adjustable tiltable installation bracket

**LED Information**

Total (Watts)	33W
Lumens Delivered	
Cool White	2549lm
Warm White	2122lm
Lm/W	
Cool White	77lm
Warm White	64lm
Beam Angle	75°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>AELLED/WL/CW</b>	LED	33W - Cool White
<b>AELLED/WL/WW</b>	LED	33W - Warm White



# Uni LED

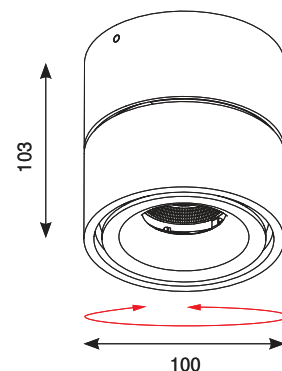
Supplied c/w Integral Driver

214



Fully adjustable to 90°

- Multi-functional adjustable surface mounting LED fixture
- Exceeds performance of 50W MR16 halogen
- 350° rotation and adjustable to 90°
- Suitable for use as ceiling mounting downlight or wall mounting in an upward or downward orientation
- Die-cast aluminium construction with a matt white paint finish
- LED lifespan L70 60,000 hours
- Triac dimmable as standard



### LED Information

Total (Watts)	9W
Lumens Delivered	645lm
Lm/W	72lm
Beam Angle	45°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

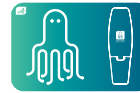
Code	Lamp	Description
AUNIVLED	LED	9W - Warm White



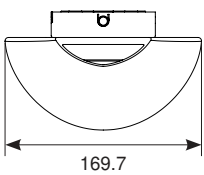
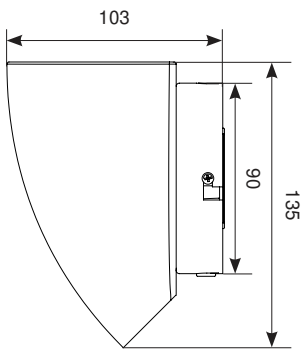


# Duo LED

Supplied c/w Integral Driver



- Feature wall light with bi-directional light distribution
- Die-cast aluminium wall fixture
- Dupont polyester powder coating
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



Light Distribution



### LED Information

Total (Watts)	10W
Lumens Delivered	582lm
Lm/W	58lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 25°C



Code	Lamp	Description
ADULED/W	LED	10W - Warm White



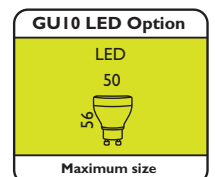
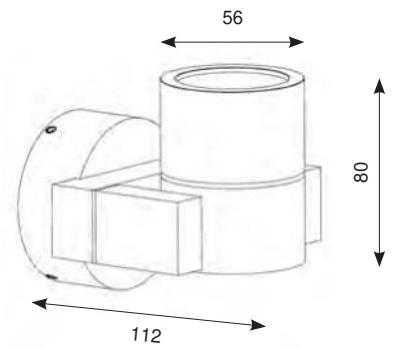
# Riola

Supplied Less Lamp

216

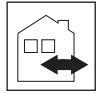


- Modern wall light with adjustable 180° head in vertical plane
- For use in both internal and external applications
- Brushed aluminium finish
- Suitable for GU10 LED or GU10 Mains halogen

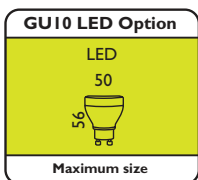
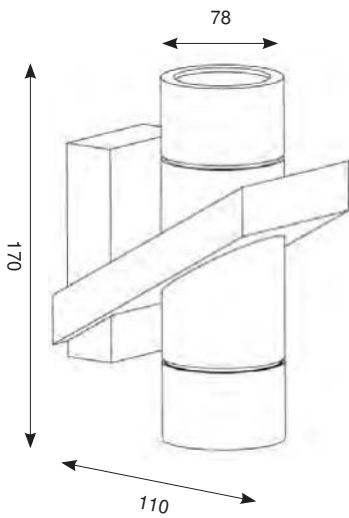


Code	Lamp	Description
ARGU10	GU10	35W





- Modern bi-directional wall light with brushed aluminium finish
- For use in both internal and external applications
- Suitable for GU10 LED or GU10 Mains halogen



Code	Lamp	Description
ACO2X35	GU10	2x35W



# Mitre LED

Supplied c/w Integral Driver

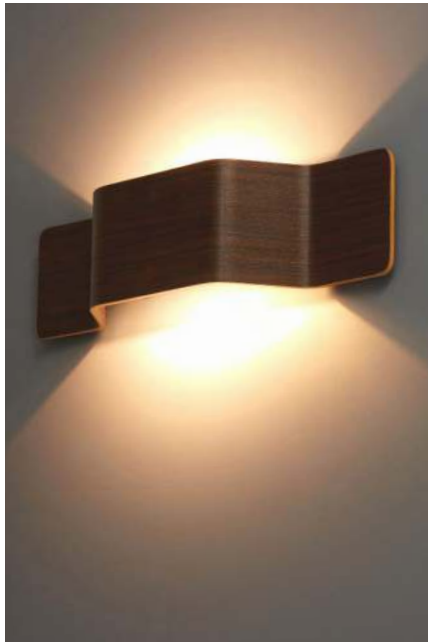
218



White

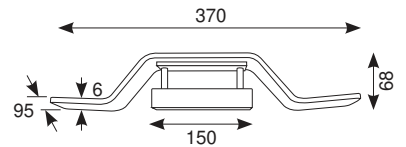


Oak



Walnut

- Modern LED wall light with choice of 3 cover finishes
- Unique design creates even distribution of upward and downward light
- White, oak and walnut cover finishes available
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



### LED Information

Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 90
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-10°C to 30°C

	Code	Lamp	Description
<b>Base</b>	<b>AFAMIWL/BASE</b>	LED	9W - Warm White
<b>Covers</b>	<b>AMIFC/W</b>		Front Cover - White
	<b>AMIFC/OAK</b>		Front Cover - Oak
	<b>AMIFC/WAL</b>		Front Cover - Walnut

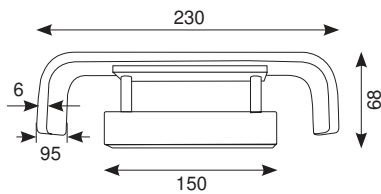


# Fascia LED

Supplied c/w Integral Driver



- Modern LED wall light with choice of 3 cover finishes
- Unique design creates even distribution of upward and downward light
- White, oak and walnut cover finishes available
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



White



Oak



Walnut

### LED Information

Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 90
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-10°C to 30°C



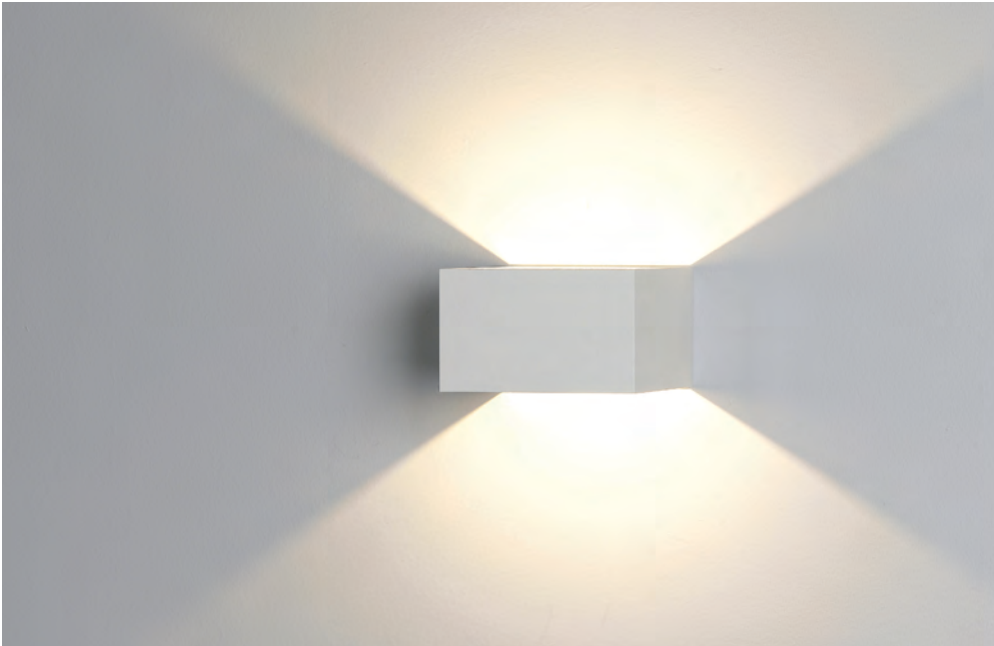
	Code	Lamp	Description
<b>Base</b>	<b>AFAMIWL/BASE</b>	LED	9W - Warm White
<b>Covers</b>	<b>AFAFC/W</b>		Front Cover - White
	<b>AFAFC/OAK</b>		Front Cover - Oak
	<b>AFAFC/WAL</b>		Front Cover - Walnut



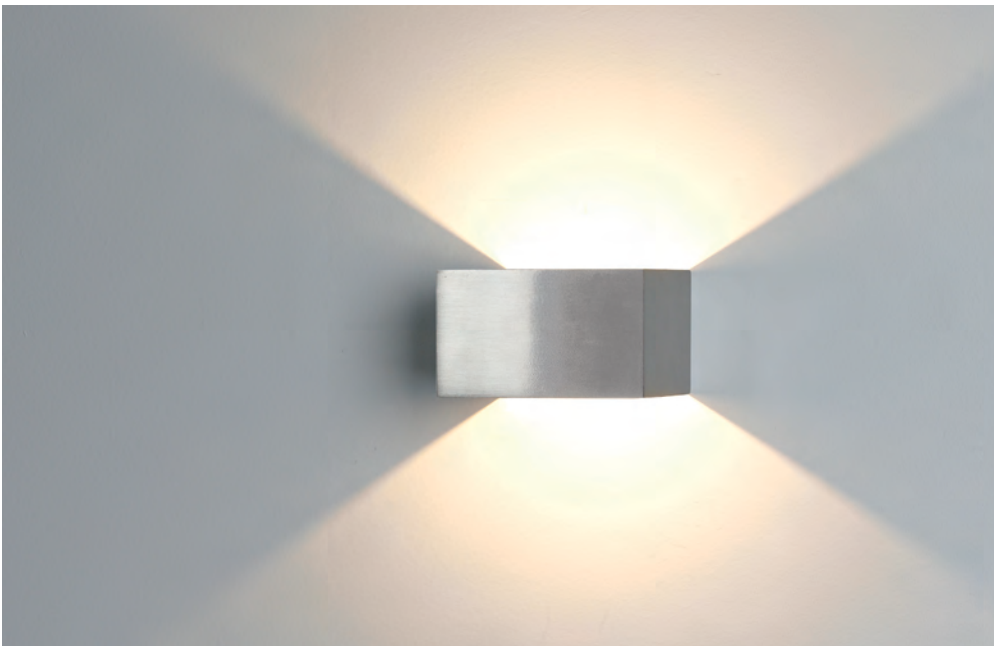
# Facet LED

c/w Integral Driver

220

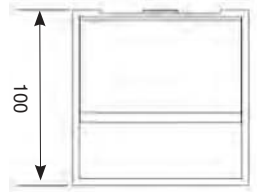
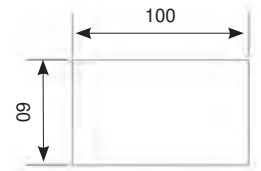


AFWLED/W



AFWLED/SC

- Surface bi-directional wall light providing vivid angled distribution
- Aluminium construction with an option of matt white or polished satin chrome finishes
- LED lifespan L70 30,000 hours
- Non-dimmable



### LED Information

Total (Watts)	6.5W
Lumens Delivered	183lm
Lm/W	46lm
CRI	Ra 93
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AFWLED/W	LED	6.5W Warm White - White
AFWLED/SC	LED	6.5W Warm White - Satin Chrome



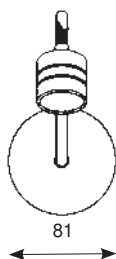
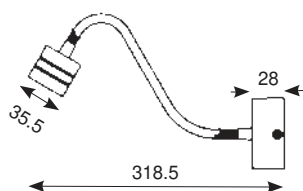
# Spectrum LED Gooseneck Wall Light

Supplied c/w Integral Driver



221

- Gooseneck LED switched reading light
- Die-cast aluminium body with integral driver
- LED lifespan L70 60,000 hours
- Non-dimmable



## LED Information

Total (Watts)	2W
Lumens Delivered	29lm
Lm/W	15lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 30°C



Code                      Lamp                      Description

**ASPGN/1LED/WHI**    LED                      2W Warm White - Satin Silver

Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750



# LED Drivers

## Constant Voltage Non-Dimmable



### Constant Voltage 12V



AD30W/12V



AD75W/12V

### Constant Voltage 24V / 48V



ADK15W/24V



ADK60W/24V



ADK120W/24V



ADK200W/24V



ADK320W/24V

- Constant voltage non-dimmable drivers for 12V and 24V LED applications
- Thermal, short circuit and overload protection

	Code	Description	A	B	C
12V	AD30W/12V	30W	166	24	52
	AD75W/12V	75W	180	30	52
24V	ADK15W/24V	15W	123	45	19
	ADK60W/24V	60W	180	52	36
	ADK120W/24V	120W	300	40	30
	ADK200W/24V	200W	207	37	68.5
	ADK320W/24V	320W	249	40	70

A = Length B = Height C = Width



ADK200W/24V  
ADK320W/24V



# LED Drivers

## Constant Current Non-Dimmable



- Constant current non-dimmable drivers for 350mA and 700mA LED applications
- Thermal, short circuit and overload protection

### Constant Current 350mA



AD3W/350



AD9W/350



ADK20W/350

### Constant Current 700mA



AD3W/700



ADK12W/700



ADK20W/700

	Code	Description	A	B	C
350mA	AD3W/350	1-3W 350mA	56	20	39
	AD9W/350	1-9W 350mA	85	22	40
	ADK20W/350	6W-20W 350mA	123	45	19
700mA	AD3W/700	1-3W 700mA	56	20	39
	ADK12W/700	3W-12W 700mA	123	45	19
	ADK20W/700	6W-20W 700mA	123	45	19

A = Length B = Height C = Width



# 12V LED Triac Dimmable Drivers



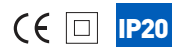
ADDIM50W/12V



ADDIM100W/12V

Code	Description	A	B	C	D
ADDIM50W/12V	50W	166	24	52	174
ADDIM100W/12V	100W	210	34	67	220

A = Length B = Height C = Width D = Fixing Centres



- 12V triac dimmable driver
- 0-100% dimming range
- Suitable for dimming 12V LED Flexible Strip
- Please note, not compatible for RGB use

# 12V LED 1-10V and Switch Dim Dimmable Driver



ADDIM75W/12V

Code	Description	A	B	C	D
ADDIM75W/12V	75W	220	42	58	190

A = Length B = Height C = Width D = Fixing Centres



Terminals and dimming adjustment



- 12V dimmable driver with minimum value dimming adjustment feature
- 0-100% dimming range
- Suitable for dimming 12V LED Flexible Strip
- Loop-in, loop-out terminals for ease of installation
- Please note, not compatible for RGB use



- Multicurrent and multivoltage dimmable LED drivers
- Integral dip-switch allows selection of the output required
- Dimming options  
AMCD25W 1-10V, Push to Dim  
AMCD50W 1-10V, Push to Dim, DALI
- Thermal, short circuit and overload protection



AMCD25W



AMCD50W



Terminals and dip-switch selection

Code	350mA	500mA	700mA	900mA	1050mA	10V	12V	24V	48V
AMCD25W	0-15W	0-22W	0-25W			0-9W	0-10W	0-20W	
AMCD50W	0-25W	0-35W	0-50W	0-50W	0-50W				0-50W

Code	Description	A	B	C	D
AMCD25W	25W	103	21	67	94
AMCD50W	50W	125	22	79	111

A = Length B = Height C = Width D = Fixing Centres



# Aluminium Profiles for LED Strip

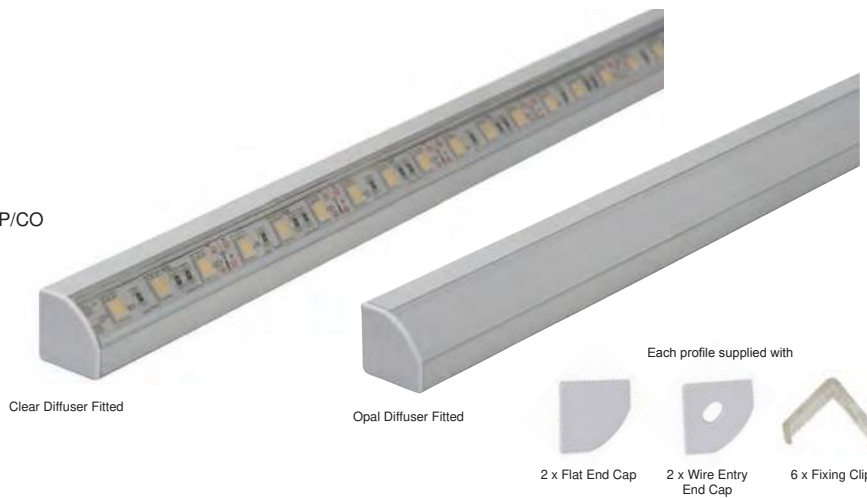
(Supplied Less LED Strip)



AALU/SP/CO



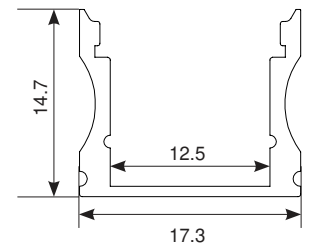
AALU/AP/CO



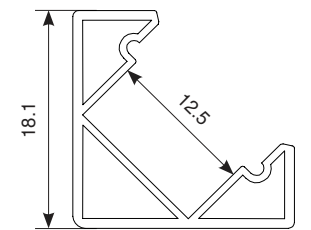
AALU/RP/CO



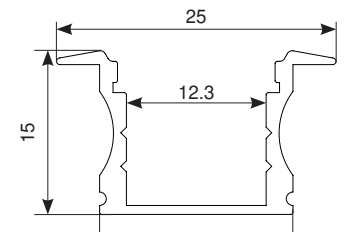
- High quality anodised aluminium profiles for installation with Boa, Krait, Adder, Cobra, Python, Viper and Mamba Ansell LED tapes
- Installation of profiles provide a professional finish to installation and enhances LED chip life through optimised heat dissipation
- Supplied with clear and opal diffusers
- Profiles and diffusers supplied in 2 metre lengths (easily cut to length by installer)
- Two end cap styles and fixing clips supplied with each profile length



Surface Extension



Angled Extension



Recessed Extension

	Code	Description
Surface	AALU/SP/CO	2 Metre Surface Extension
Angled	AALU/AP/CO	2 Metre Angled Extension
Recessed	AALU/RP/CO	2 Metre Recessed Extension





**Project - Trimmers Salon**  
Liverpool, UK

# LED Strip Made Easy...

228



## Step 1:

Peel the adhesive back from the LED strip and place down on a clean and even surface, ensuring the entire length is firmly stuck down.



## Step 2:

Utilising the plug and play connections, connect the end of the LED strip run to a mains lead (**sold separately**).



## Step 3:

Connect the mains lead to your LED driver (the driver will depend on the length of LED strip being installed (**sold separately**) and ensure the LED driver is connected to the mains.



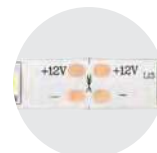
## Step 4:

Switch on the power and enjoy your new LED strip lighting.



## No Tools Required

All of our LED strip ranges are supplied with a self-adhesive back, meaning no adhesive or fixings are required to apply the strip to clean dry surfaces. Additionally all strip is fitted with plug-and-play connections, so no soldering or tools are needed, further aiding in a quick and easy installation.



## Pre-Cut Lengths

Strip comes in various pre-cut lengths from 100mm to 5 metres, offering complete versatility and ensuring a quick and easy installation. This coupled with designated cutting points allows total flexibility for every installation.



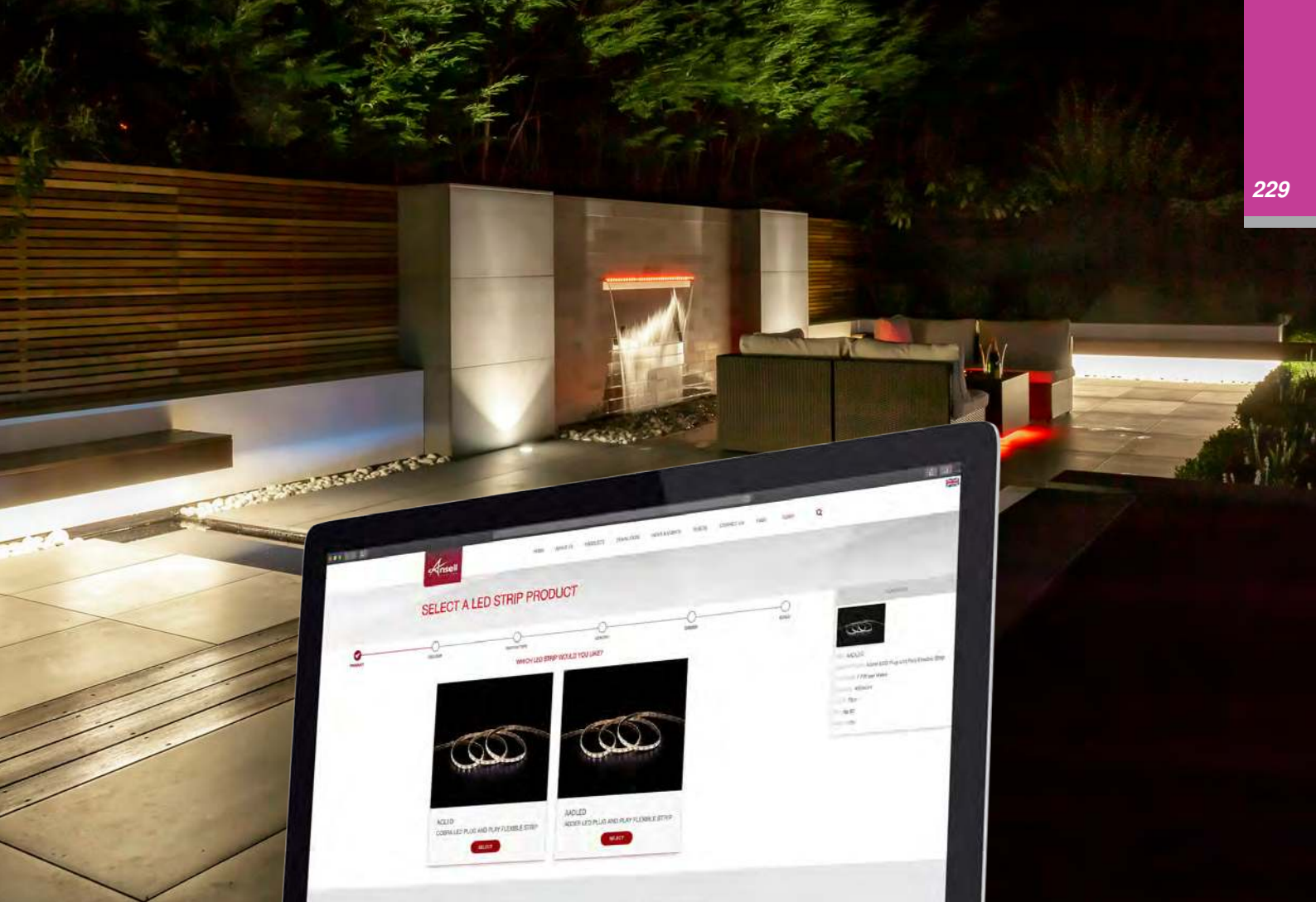
## Complete Customisation

The vast range of different strip options are complimented by an equally impressive selection of accessories. Our comprehensive range of connector options allow an easy installation for even the most complex of configurations.



## Connected

OCTO 12-24V bluetooth smart controller provides users with options for RGBW, RGB, tunable white and single colour. Settings are easily commissioned by a smart device via the OCTO app, this includes full control, dimming, scene setting and pre-set timers.



# LED Strip Calculator

Our online LED strip calculator simplifies the process of choosing the correct strip and accessories for any job, no matter how big or small. The easy step-by-step process covers all aspects of selecting and ordering the correct products.

Simply run through your specification requirements and the calculator will work out all of the necessary parts you require. Add any accessories you will need and you are good to go. The calculator will produce a downloadable summary of everything you will need to order.

Visit [www.anselluk.com](http://www.anselluk.com) to find out more...

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Krait 24V LED Plug and Play Flexible Strip **7.2W per Metre**

Supplied Less Driver

230



Cool White

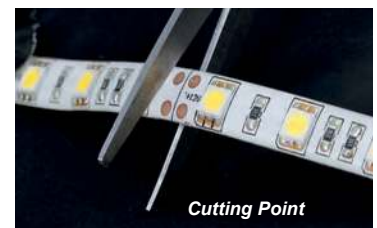
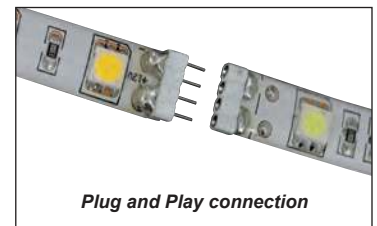
Warm White

Tunable White

Code Lamp Description

<b>AKRLED/100/CW</b>	LED	100mm - Cool White
<b>AKRLED/100/WW</b>	LED	100mm - Warm White
<b>AKRLED/100/RGB</b>	LED	170mm - RGB
<b>AKRLED/100/RGBW</b>	LED	170mm - RGBW
<b>AKRLED/100/TW</b>	LED	170mm - Tunable White
<b>AKRLED/300/CW</b>	LED	300mm - Cool White
<b>AKRLED/300/WW</b>	LED	300mm - Warm White
<b>AKRLED/300/RGB</b>	LED	330mm - RGB
<b>AKRLED/300/RGBW</b>	LED	330mm - RGBW
<b>AKRLED/300/TW</b>	LED	330mm - Tunable White
<b>AKRLED/500/CW</b>	LED	500mm - Cool White
<b>AKRLED/500/WW</b>	LED	500mm - Warm White
<b>AKRLED/500/RGB</b>	LED	500mm - RGB
<b>AKRLED/500/RGBW</b>	LED	500mm - RGBW
<b>AKRLED/500/TW</b>	LED	500mm - Tunable White
<b>AKRLED/1000/CW</b>	LED	1 Metre - Cool White
<b>AKRLED/1000/WW</b>	LED	1 Metre - Warm White
<b>AKRLED/1000/RGB</b>	LED	1 Metre - RGB
<b>AKRLED/1000/RGBW</b>	LED	1 Metre - RGBW
<b>AKRLED/1000/TW</b>	LED	1 Metre - Tunable White
<b>AKRLED/2000/CW</b>	LED	2 Metre - Cool White
<b>AKRLED/2000/WW</b>	LED	2 Metre - Warm White
<b>AKRLED/2000/RGB</b>	LED	2 Metre - RGB
<b>AKRLED/2000/RGBW</b>	LED	2 Metre - RGBW
<b>AKRLED/2000/TW</b>	LED	2 Metre - Tunable White
<b>AKRLED/5000/CW</b>	LED	5 Metre - Cool White
<b>AKRLED/5000/WW</b>	LED	5 Metre - Warm White
<b>AKRLED/5000/RGB</b>	LED	5 Metre - RGB
<b>AKRLED/5000/RGBW</b>	LED	5 Metre - RGBW
<b>AKRLED/5000/TW</b>	LED	5 Metre - Tunable White

- 24V input offers greater efficiencies and option of longer LED strip sizes
- Single colour, RGB, RGBW and tunable white flexible LED strip with self adhesive back
- Fast fit plug and play connections remove the need for time consuming soldering of joints
- Cutting points: 3000K, 4000K: 100mm RGB, RGBW and Tunable: 167mm (only if required)
- Joint and connection accessories sold separately
- LED lifespan L70 40,000 hours



## LED Information

Total (Watts)	7.2W per metre
Lumens Delivered per metre	
Cool White	693lm
Warm White	619lm
Lm/W Cool White	99lm
Lm/W Warm White	88lm
CRI	Ra 90
CCT	4000K
	3000K
	RGB
Input	24V







• **JOINTS**

Easy fast-fit range of plug-in connections



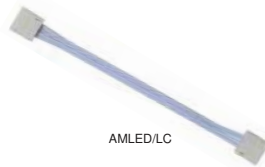
ACLED/90B



ACLED/TC



ACLED/XC



AMLED/LC



ACLED/90/FB

• **ACLED/RC/TOUCH**

Visible colour spectrum for easy finger touch control. Memory function for colour, mode, speed and brightness. RF up to a maximum of 20 metres

**\*\*Only Compatible with RGB LED strip Not compatible with Tuneable White or RGBW\*\***



ACLED/AMP/TOUCH



ACLED/RC/TOUCH



AOCTO/RGBW/BTC

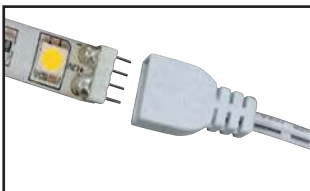
• **ACLED/AMP/TOUCH**

RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations

• **AOCTO/RGBW/BTC**

12-24V Bluetooth smart controller. Max. Wattage 72W - 12V 144W - 24V

**\*\*Compatible with all single CCT, Tuneable white, RGB and RGBW\*\***



Link Lead Connection

Code	Description
ACLED/90B	90° Bend
ACLED/90/FB	90° Flat Bend
ACLED/TC	T Connector
ACLED/XC	X Connector
ACLED100/LL	100mm Link Lead (White and RGB)
ACLED500/LL	500mm Link Lead (White and RGB)
ACLED1000/LL	1000mm Link Lead (White and RGB)
ACLED/ML	1000mm Mains Lead
ACLED/ML/RGB	1000mm Mains Lead RGB
ABOLED/ML/TW	1000mm Mains Lead
ABOLED/ML/RGBW	1000mm Mains Lead RGB
ACLED/RC/TOUCH	Touch RGB RF Remote Control
ACLED/AMP/TOUCH	Touch RGB Amplifier (Repeater)
AMLED/LC	Flexible Quick-fit Joint
ABOLED/LC/RGBW	500mm Link Lead (RGBW)
AOCTO/RGBW/BTC	12 - 24V Single CCT/RGBW Controller
<b>Accessories</b> ADK200W/24V	200W 24V Constant Voltage Driver
ADK320W/24V	320W 24V Constant Voltage Driver



# Boa 24V LED Plug and Play Flexible Strip

Supplied Less Driver

**14.4W per Metre**



Cool White



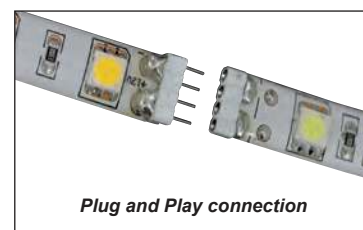
Warm White



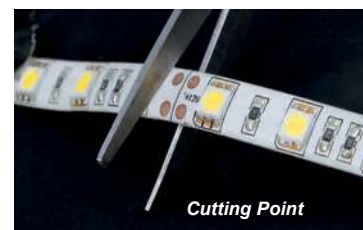
Tunable White

Code	Lamp	Description
ABOLED/100/CW	LED	100mm - Cool White
ABOLED/100/WW	LED	100mm - Warm White
ABOLED/100/RGB	LED	100mm - RGB
ABOLED/100/RGBW	LED	100mm - RGBW
ABOLED/100/TW	LED	100mm - Tunable White
ABOLED/300/CW	LED	300mm - Cool White
ABOLED/300/WW	LED	300mm - Warm White
ABOLED/300/RGB	LED	300mm - RGB
ABOLED/300/RGBW	LED	300mm - RGBW
ABOLED/300/TW	LED	300mm - Tunable White
ABOLED/500/CW	LED	500mm - Cool White
ABOLED/500/WW	LED	500mm - Warm White
ABOLED/500/RGB	LED	500mm - RGB
ABOLED/500/RGBW	LED	500mm - RGBW
ABOLED/500/TW	LED	500mm - Tunable White
ABOLED/1000/CW	LED	1 Metre - Cool White
ABOLED/1000/WW	LED	1 Metre - Warm White
ABOLED/1000/RGB	LED	1 Metre - RGB
ABOLED/1000/RGBW	LED	1 Metre - RGBW
ABOLED/1000/TW	LED	1 Metre - Tunable White
ABOLED/2000/CW	LED	2 Metre - Cool White
ABOLED/2000/WW	LED	2 Metre - Warm White
ABOLED/2000/RGB	LED	2 Metre - RGB
ABOLED/2000/RGBW	LED	2 Metre - RGBW
ABOLED/2000/TW	LED	2 Metre - Tunable White
ABOLED/5000/CW	LED	5 Metre - Cool White
ABOLED/5000/WW	LED	5 Metre - Warm White
ABOLED/5000/RGB	LED	5 Metre - RGB
ABOLED/5000/RGBW	LED	5 Metre - RGBW
ABOLED/5000/TW	LED	5 Metre - Tunable White

- 24V input offers greater efficiencies and option of longer LED strip sizes
- Single colour, RGB, RGBW and tunable white flexible LED strip with self adhesive back
- Fast fit plug and play connections remove the need for time consuming soldering of joints
- Cutting points: 3000K, 4000K: 50mm RGB, RGBW and Tunable: 100mm (only if required)
- Joint and connection accessories sold separately
- LED lifespan L70 40,000 hours



Plug and Play connection



Cutting Point

### LED Information

Total (Watts)	14.4W per metre
Lumens Delivered per metre	
Cool White	1203lm
Warm White	1127lm
Lm/W Cool White	93lm
Lm/W Warm White	87lm
CRI	Ra 90
CCT	4000K 3000K Tunable White RGB RGBW
Input	24V



• **JOINTS**

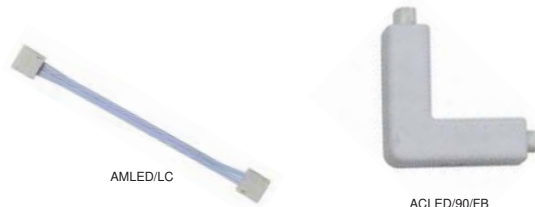
Easy fast-fit range of plug-in connections



ACLED/90B

ACLED/TC

ACLED/XC



AMLED/LC

ACLED/90/FB

• **ACLED/RC/TOUCH**

Visible colour spectrum for easy finger touch control. Memory function for colour, mode, speed and brightness. RF up to a maximum of 20 metres

**\*\*Only Compatible with RGB LED strip Not compatible with Tuneable White or RGBW\*\***



ACLED/AMP/TOUCH

ACLED/RC/TOUCH

AOCTO/RGBW/BTC

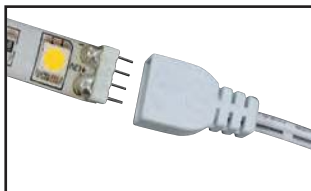
• **ACLED/AMP/TOUCH**

RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations

• **AOCTO/RGBW/BTC**

12-24V Bluetooth smart controller.  
Max. Wattage  
72W - 12V  
144W - 24V

**\*\*Compatible with all single CCT, Tuneable white, RGB and RGBW\*\***



Link Lead Connection

Code	Description
ACLED/90B	90° Bend
ACLED/90/FB	90° Flat Bend
ACLED/TC	T Connector
ACLED/XC	X Connector
ACLED100/LL	100mm Link Lead (White and RGB)
ACLED500/LL	500mm Link Lead (White and RGB)
ACLED1000/LL	1000mm Link Lead (White and RGB)
ACLED/ML	1000mm Mains Lead
ACLED/ML/RGB	1000mm Mains Lead RGB
ABOLED/ML/TW	1000mm Mains Lead
ABOLED/ML/RGBW	1000mm Mains Lead RGB
ACLED/RC/TOUCH	Touch RGB RF Remote Control
ACLED/AMP/TOUCH	Touch RGB Amplifier (Repeater)
AMLED/LC	Flexible Quick-fit Joint
ABOLED/LC/RGBW	500mm Link Lead (RGBW)
AOCTO/RGBW/BTC	12 - 24V Single CCT/RGBW Controller
<b>Accessories</b> ADK200W/24V	200W 24V Constant Voltage Driver
ADK320W/24V	300W 24V Constant Voltage Driver

# Adder 12V LED Plug and Play Flexible Strip **7.2W per Metre**

Supplied Less Driver

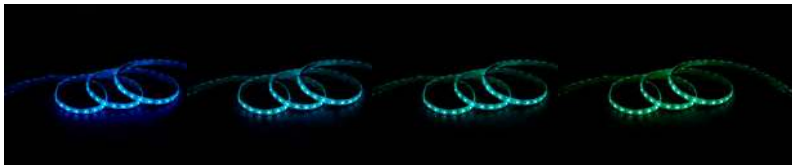
234



Cool White

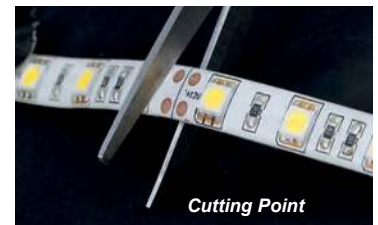
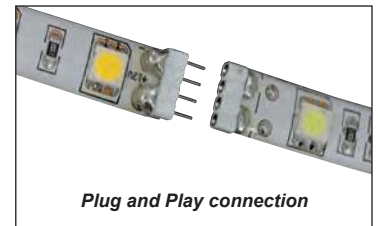


Warm White



- Single colour and RGB flexible LED strip with self adhesive back
- Fast fit plug and play connections remove the need for time consuming soldering of joints
- Cutting points every 100mm (only if required)
- Joint and connection accessories sold separately
- Voltage drop of 1.5V per 5 metres
- LED lifespan L70 40,000 hours
- Dimmable with LED driver  
ADDIM50W/12V  
ADDIM75W/12V  
ADDIM100W/12V  
(see p186 for driver)

Code	Lamp	Description
AADLED/100/CW	LED	100mm - Cool White
AADLED/100/WW	LED	100mm - Warm White
AADLED/100/RGB	LED	100mm - RGB
AADLED/300/CW	LED	300mm - Cool White
AADLED/300/WW	LED	300mm - Warm White
AADLED/300/RGB	LED	300mm - RGB
AADLED/500/CW	LED	500mm - Cool White
AADLED/500/WW	LED	500mm - Warm White
AADLED/500/RGB	LED	500mm - RGB
AADLED/1000/CW	LED	1 Metre - Cool White
AADLED/1000/WW	LED	1 Metre - Warm White
AADLED/1000/RGB	LED	1 Metre - RGB
AADLED/2000/CW	LED	2 Metre - Cool White
AADLED/2000/WW	LED	2 Metre - Warm White
AADLED/2000/RGB	LED	2 Metre - RGB
AADLED/5000/CW	LED	5 Metre - Cool White
AADLED/5000/WW	LED	5 Metre - Warm White
AADLED/5000/RGB	LED	5 Metre - RGB



## LED Information

Total (Watts) 7.2W per metre

Lumens Delivered per metre

Cool White 520lm

Warm White 495lm

Lm/W Cool White 80lm

Lm/W Warm White 75lm

CRI Ra 80

CCT 4000K

3000K

RGB

Input 12V



• **JOINTS**

Easy fast-fit range of plug-in connections



ACLED/90B



ACLED/TC



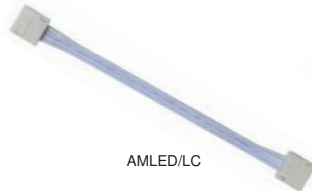
ACLED/XC



• **ACLED/RC/TOUCH**

Visible colour spectrum for easy finger touch control. Memory function for colour, mode, speed and brightness. RF up to a maximum of 20 metres

**\*\*Only Compatible with RGB LED strip Not compatible with Tuneable White or RGBW\*\***



AMLED/LC



ACLED/90/FB



ACLED/AMP/TOUCH

• **ACLED/AMP/TOUCH**

RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations



ACLED/RC/TOUCH

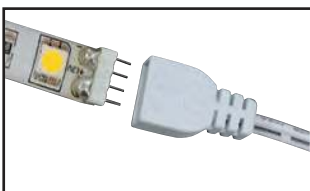


AOCTO/RGBW/BTC

• **AOCTO/RGBW/BTC**

12-24V Bluetooth smart controller.  
Max. Wattage  
72W - 12V  
144W - 24V

**\*\*Compatible with all single CCT, Tuneable white, RGB and RGBW\*\***



Link Lead Connection

Code	Description
ACLED/90B	90° Bend
ACLED/90/FB	90° Flat Bend
ACLED/TC	T Connector
ACLED/XC	X Connector
ACLED100/LL	100mm Link Lead (White and RGB)
ACLED500/LL	500mm Link Lead (White and RGB)
ACLED1000/LL	1000mm Link Lead (White and RGB)
ACLED/ML	1000mm Mains Lead
ACLED/ML/RGB	1000mm Mains Lead RGB
ACLED/RC/TOUCH	Touch RGB RF Remote Control
ACLED/AMP/TOUCH	Touch RGB Amplifier (Repeater)
AMLED/LC	Flexible Quick-fit Joint
AOCTO/RGBW/BTC	12 - 24V Single CCT/RGBW Controller
<b>Accessories</b> AD30W/12V	30W 12V Constant Voltage Driver
AD75W/12V	75W 12V Constant Voltage Driver
ADDIM75W/12V	75W 12V Dimmable (1-10V or Switch Dim)



# Cobra 12V LED Plug and Play Flexible Strip

Supplied Less Driver

**14.4W per Metre**

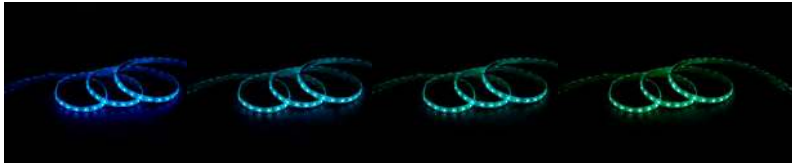
236



Cool White

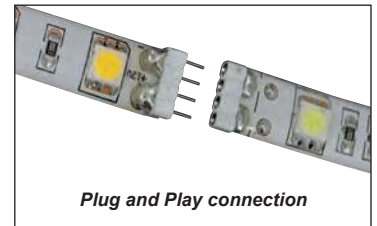


Warm White



- High density (brightness) single colour and RGB flexible LED strip with self adhesive back
- Fast fit plug and play connections remove the need for time consuming soldering of joints
- Cutting points every 50mm (only if required)
- Joint and connection accessories sold separately
- Voltage drop of 1.5V per 5 metres
- LED lifespan L70 40,000 hours
- Dimmable with LED driver  
ADDIM50W/12V  
ADDIM75W/12V  
ADDIM100W/12V  
(see p186 for driver)

Code	Lamp	Description
ACLED/100/CW	LED	100mm - Cool White
ACLED/100/WW	LED	100mm - Warm White
ACLED/100/RGB	LED	100mm - RGB
ACLED/300/CW	LED	300mm - Cool White
ACLED/300/WW	LED	300mm - Warm White
ACLED/300/RGB	LED	300mm - RGB
ACLED/500/CW	LED	500mm - Cool White
ACLED/500/WW	LED	500mm - Warm White
ACLED/500/RGB	LED	500mm - RGB
ACLED/1000/CW	LED	1 Metre - Cool White
ACLED/1000/WW	LED	1 Metre - Warm White
ACLED/1000/RGB	LED	1 Metre - RGB
ACLED/2000/CW	LED	2 Metre - Cool White
ACLED/2000/WW	LED	2 Metre - Warm White
ACLED/2000/RGB	LED	2 Metre - RGB
ACLED/5000/CW	LED	5 Metre - Cool White
ACLED/5000/WW	LED	5 Metre - Warm White
ACLED/5000/RGB	LED	5 Metre - RGB



Plug and Play connection



Cutting Point

## LED Information

Total (Watts)	14.4W per metre
Lumens Delivered per metre	
Cool White	1000lm
Warm White	950lm
Lm/W Cool White	76lm
Lm/W Warm White	73lm
CRI	Ra 80
CCT	4000K
	3000K
	RGB
Input	12V

• **JOINTS**

Easy fast-fit range of plug-in connections



ACLED/90B



ACLED/TC



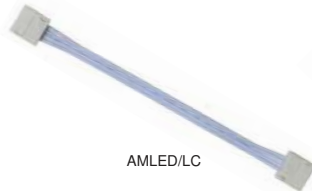
ACLED/XC



• **ACLED/RC/TOUCH**

Visible colour spectrum for easy finger touch control. Memory function for colour, mode, speed and brightness. RF up to a maximum of 20 metres

**\*\*Only Compatible with RGB LED strip Not compatible with Tuneable White or RGBW\*\***



AMLED/LC



ACLED/90/FB



ACLED/AMP/TOUCH

• **ACLED/AMP/TOUCH**

RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations



ACLED/RC/TOUCH

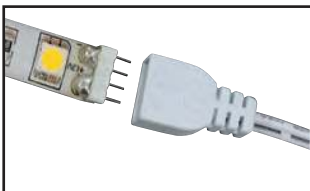


AOCTO/RGBW/BTC

• **AOCTO/RGBW/BTC**

12-24V Bluetooth smart controller.  
Max. Wattage  
72W - 12V  
144W - 24V

**\*\*Compatible with all single CCT, Tuneable white, RGB and RGBW\*\***



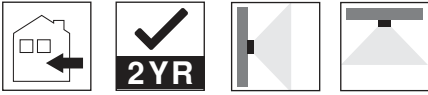
Link Lead Connection

Code	Lamp	Description
ACLED/90B		90° Bend
ACLED/90/FB		90° Flat Bend
ACLED/TC		T Connector
ACLED/XC		X Connector
ACLED100/LL		100mm Link Lead (White and RGB)
ACLED500/LL		500mm Link Lead (White and RGB)
ACLED1000/LL		1000mm Link Lead (White and RGB)
ACLED/ML		1000mm Mains Lead
ACLED/ML/RGB		1000mm Mains Lead RGB
ACLED/RC/TOUCH		Touch RGB RF Remote Control
ACLED/AMP/TOUCH		Touch RGB Amplifier (Repeater)
AMLED/LC		Flexible Quick-fit Joint
AOCTO/RGBW/BTC		12 - 24V Single CCT/RGBW Controller
<b>Accessories</b>	<b>AD30W/12V</b>	30W 12V Constant Voltage Driver
	<b>AD75W/12V</b>	75W 12V Constant Voltage Driver
	<b>ADDIM75W/12V</b>	75W 12V Dimmable (1-10V or Switch Dim)

# Python White Flexible LED Strip Kits

Supplied c/w Integral Driver

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- 5 metre flexible strip kit with self-adhesive back
- Flexible quick-fit joint included
- Fast and easy-fit plug and play connection from driver to LED strip
- Cutting point every 80mm
- 6W per metre
- LED lifespan L70 20,000 hours

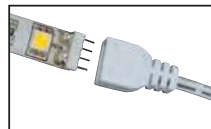
## Each Kit Includes:-



5M Strip



LED Driver



Plug-in Connection from Strip to Driver



Flexible Quick-Fit Joint

Code	Lamp	Description
APYLED/KIT/CW	LED	5M 30W LED Strip Kit - Cool White
APYLED/KIT/WW	LED	5M 30W LED Strip Kit - Warm White

Accessories	Code	Description
AMLED/LC		Flexible Quick-fit Joint

## LED Information

Total (Watts)	30W
Delivered Lumens	
Cool White	1800lm
Warm White	1600lm
Lm/W Cool White	80lm
Lm/W Warm White	75lm
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C





# Viper RGB Flexible LED Strip Kit



- 5 metre RGB flexible strip kit with self adhesive back
- Flexible quick-fit joint included
- Easy fit plug and play connection
- Cutting point every 100mm
- 7.2W per metre
- LED lifespan L70 25,000 hours



5M RGB Strip

### Each Kit Includes:-



IR Controller



Power Supply



Receiver



Flexible Quick-Fit Joint

### LED Information

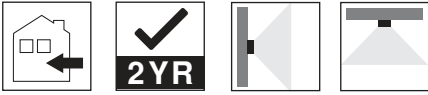
Total (Watts)	36W
CCT	RGB
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AVLED/KIT	LED	5M 36W RGB LED Strip Kit
<b>Accessories</b>	<b>AMLED/LC</b>	Flexible Quick-fit Joint



# Mamba Tunable White Flexible LED Strip Kit

240



- 5 metre flexible strip kit with self-adhesive back
- Flexible quick-fit joint included
- Tunable white between 2500K and 6500K colour temperatures
- Adjustable brightness
- Easy fit plug and play connection
- Cutting point every 55mm
- 6W per metre
- LED lifespan L70 25,000 hours



5M Tunable Strip

## Each Kit Includes:-



IR Controller



Power Supply



Receiver



Flexible Quick-Fit Joint

Code	Lamp	Description
AMLED/KIT/TUNE	LED	5M 30W Tunable White LED Strip Kit
<b>Accessories</b>	<b>AMLED/LC</b>	Flexible Quick-fit Joint

## LED Information

Total (Watts)	30W
CCT	2500K to 6500K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



# Concho

## IP65 A C LED FLEXIBLE LIGHTING

### NO DRIVER REQUIRED

- For ease and speed of installation
- No management costs

### HIGH OUTPUT LED

- 1000lm per metre Warm White
- 1100lm per metre Cool White
- 100lm/W



### MAINTENANCE FREE LED

### INSTALLATION LENGTH

- Ultra long runs
- 50 metres cool white and warm white
- 30 metres RGB

### OPTICALLY CLEAR THERMOPLASTIC SLEEVE For optimum performance



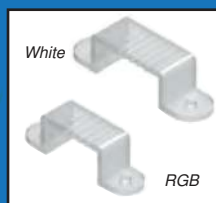
White LED Power Supply



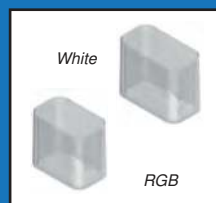
RGB LED Power Supply



RGB Flexi-Bend



Fixing Clips



End Caps



Silicon Glue

- Not submersible
- Not intended for applications where water can puddle
- Not intended for applications where product can be covered by snow
- All connections must be sealed with silicon

# IP65 Concho AC LED Strip (Up to 1100lm per metre)

No Driver Required



Cool White



Warm White



R



G



B

## White LED Cut-Lengths (1 Metre Multiples)

Code	Lamp	Description
ACONLED/CL/WW	LED	Warm White (Per Metre c/w 3 Fixing Clips)
ACONLED/CL/CW	LED	Cool White (Per Metre c/w 3 Fixing Clips)
ACONLED/CL/PS	LED	Power Supply (1 Required Per Cut Length)

## RGB LED Cut-Lengths (1 Metre Multiples)

ACONLED/CL/RGB	LED	RGB (Per Metre c/w 3 x Clips)
ACONLED/CL/RGB/PS	LED	RGB Power Supply and Touch RF Control (1 Required Per Cut Length)

## White LED 50 Metre Drums

ACONLED/50/WW	LED	Warm White
ACONLED/50/CW	LED	Cool White
ACONLED/50/PS	LED	Power Supply
ACONLED/END	LED	End Cap
ACONLED/SILG	LED	100ml Silicon Glue
ACONLED/CLIPS	LED	3 x Fixing Clips
ACONLED/FBEND	LED	200mm Flexi Bend

## RGB LED 30 Metre Drums

ACONLED/30/RGB	LED	RGB
ACONLED/30/RGB/PS	LED	RGB Power Supply (1 Required Per Length)
ACONLED/RGB/FBEND	LED	RGB 200mm Flexi Bend
ACONLED/SILG	LED	100ml Silicon Glue
ACONLED/RGB/END	LED	RGB End Cap
ACONLED/RGB/CLIPS	LED	3 x RGB Fixing Clips

- High output LED strip for external applications
- Supplied as specific cut-lengths to order
- AC LED strip does not require driver
- 3000K/4000K LED suitable for installations up to 50 metres run length
- RGB LED suitable for installations up to 30 metres run length
- Cutting points:-  
White LED 500mm  
RGB LED 1000mm
- Non-returnable product
- LED lifespan L70 35,000 hours
- 3000K/4000K non-dimmable
- Adjustable brightness control for RGB

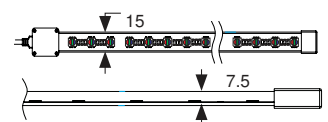
### White LED Cut-Lengths

All pre-cut lengths are supplied pre-leaded and sealed with power supply connection and end cap

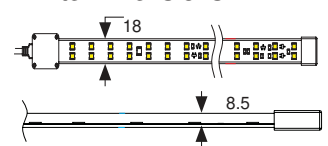
### RGB LED Cut-Length

RGB RF remote handset will control one pre-cut length only

### RGB Dimensions



### White Dimensions



### LED Information

Total (Watts)	
White	11W per metre
RGB	10W per metre
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C





**Project - Vue Cinema**  
Preston, UK

# Matrix LED CCT Linklight

Supplied c/w Integral Driver

244



- CCT Selectable LED linklight with integral driver
- Side mounted switch allows installer the choice of 3000K or 4000K colour temperature options
- Moulded spine fitted with integral switch and fixed diffuser
- c/w angled and straight fixing clips
- Supplied c/w 1.5m mains power lead
- Linkable up to a maximum of twelve fittings
- LED lifespan L70 25,000 hours
- Non-dimmable

## LED Information

	Cool White	Warm White
Total (Watts)	3W	
	7W	
	13W	
	18W	
Lumens Delivered	290lm	272lm
	712lm	696lm
	1320lm	1268lm
	1844lm	1724lm
Lm/W	97lm	91lm
	102lm	99lm
	102lm	98lm
	102lm	96lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-10°C to 40°C	

Code	Lamp	Description	Length	Width	Depth
AMALED20/CCT	LED	3W - 4000K/3000K	220	22.8	38.4
AMALED50/CCT	LED	7W - 4000K/3000K	525	22.8	38.4
AMALED80/CCT	LED	13W - 4000K/3000K	858	22.8	38.4
AMALED120/CCT	LED	18W - 4000K/3000K	1158	22.8	38.4

<b>Accessories</b>	A250TLL/T5	250mm Link Lead
	A500TLL/T5	500mm Link Lead
	A1000TLL/T5	1000mm Link Lead







**Project - Private Residential**  
Holmes Chapel, UK



# Reveal AC LED Cabinet Light

No Driver Required



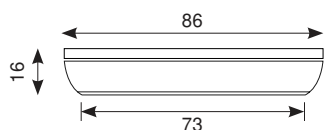
- AC 230V low profile mains surface mounted cabinet light
- Integrated AC LED technology
- Pre-wired with 1.5 metres of mains cable for fast installation
- Direct replacement for traditional halogen
- LED lifespan L70 54,000 hours
- Non-dimmable



ARCLEL/CW/W



ARCLEL/CW/SS



## LED Information

Total (Watts)	2W
Lumens Delivered	
Cool White	146lm
Warm White	132lm
Lm/W Cool White	73lm
Lm/W Warm White	66lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
<b>ARCLEL/CW/W</b>	LED	2W - Cool White - White
<b>ARCLEL/CW/SS</b>	LED	2W - Cool White - Silver
<b>ARCLEL/WW/W</b>	LED	2W - Warm White - White
<b>ARCLEL/WW/SS</b>	LED	2W - Warm White - Silver



# Reveal AC LED Tri-Light

No Driver Required

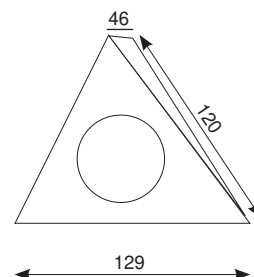


ARLEDTL/CW



ARLEDTL/WW

- AC 230V mains surface under cabinet downlight
- Integrated AC LED technology
- Pre-wired with 1.5 metres of mains cable for fast installation
- Direct replacement for traditional halogen
- LED lifespan L70 54,000 hours
- Non-dimmable



### LED Information

Total (Watts)	2W
Lumens Delivered	
Cool White	123lm
Warm White	111lm
Lm/W Cool White	61lm
Lm/W Warm White	56lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
ARLEDTL/CW	LED	2W - Cool White - Satin Chrome
ARLEDTL/WW	LED	2W - Warm White - Satin Chrome

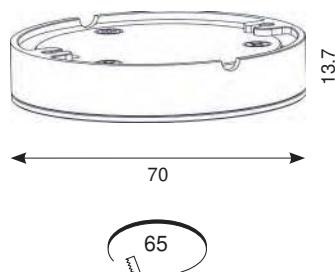


# Trio LED Cabinet Light Kit

Supplied c/w Remote Driver and Plug and Play Junction Box



- 3-light cabinet/undershelf kit for halogen replacement
- Surface or recessed mounting
- Die-cast aluminium construction
- Pre-wired with 1.5 metres mains cable c/w driver and 6 way plug-in junction box
- 2 metre plug and play connections
- LED lifespan L70 40,000 hours
- Non-dimmable



6 Way Plug and Play Connection

- Individual cabinet lights for expanding kits
- Up to 3 additional cabinet lights can be added to each kit
- A 12V driver will be required if not used with Trio kit

### LED Information

Total (Watts)	3 x 3W
Lumens Delivered	3 x 80lm
Lm/W	27lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



ATCKLED/W  
(Kit)



ATCKLED/SI  
(Kit)



ATCSLED/W  
(Individual)

ATCSLED/SI  
(Individual)

	Code	Lamp	Description
<b>Kit</b>	<b>ATCKLED/W</b>	LED	3 x 3W Warm White Kit - White
	<b>ATCKLED/SI</b>	LED	3 x 3W Warm White Kit - Silver
<b>Individual</b>	<b>ATCSLED/W</b>	LED	1 x 3W Warm White Single - White
	<b>ATCSLED/SI</b>	LED	1 x 3W Warm White Single - Silver



# Gamma Mini LED

Supplied c/w Integral Driver

250



AMGAMLED

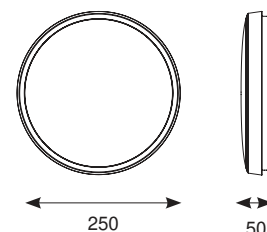


Chrome Trim Ring Fitted



Ultra slim profile

- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Performance comparable to 28W TC-DD
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



Code	Lamp	Description
<b>AMGAMLED</b>	LED	11W - Cool White
<b>AMGAMLED/WW</b>	LED	11W - Warm White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/MWS</b>	Internal Microwave Sensor
<b>Accessories</b>	<b>AMGAMLEDBZ/CH</b>	Chrome Trim Ring

## LED Information

Total (Watts)	11W
Lumens Delivered	
Cool White	1031lm
Warm White	971lm
Lm/W Cool White	94lm
Lm/W Warm White	88lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C



# Gamma Mini LED CCT

Supplied c/w Integral Driver

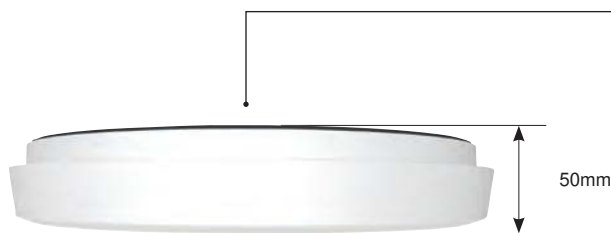
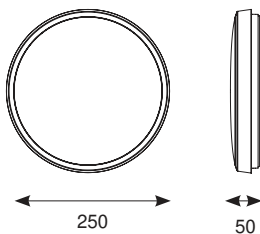
- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- One product provides both 3000K and 4000K colour temperature options
- Rear fixing bracket and terminal housing for ease of installation
- Exceeds performance of 28W TC-DD
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



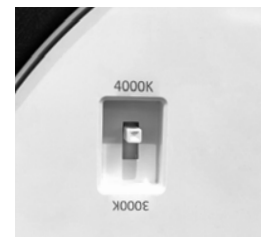
AMGAMLED/CCT



Chrome Trim Ring Fitted



Ultra slim profile



Selectable CCT switch between 3000K and 4000K

## LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	1148lm
Warm White	1053lm
Lm/W Cool White	115lm
Lm/W Warm White	105lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C

Code	Lamp	Description
<b>AMGAMLED/CCT</b>	LED	10W - Cool White/Warm White

Options		
/M3	Emergency	
/MWS	Internal Microwave Sensor	

Accessories	AMGAMLEDBZ/CH	Chrome Trim Ring
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# Gamma LED

Supplied c/w Integral Driver

252

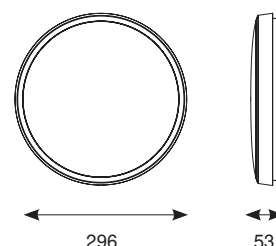


Chrome Trim Ring Fitted



Ultra slim profile

- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Outperforms 38W CFL
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



Code	Lamp	Description
AGAMLED	LED	18W - Cool White
AGAMLED/WW	LED	18W - Warm White

Options		
/M3	Emergency	
/MWS	Internal Microwave Sensor	

Accessories	AGAMLEDBZ/CH	Chrome Trim Ring

### LED Information

Total (Watts)	18W
Lumens Delivered	
Cool White	1675lm
Warm White	1551lm
Lm/W Cool White	93lm
Lm/W Warm White	86lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C

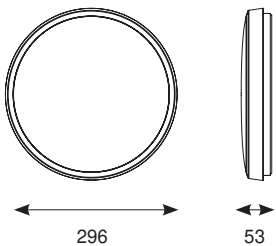


# Gamma LED CCT

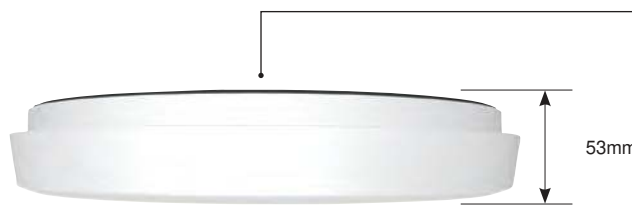
Supplied c/w Integral Driver



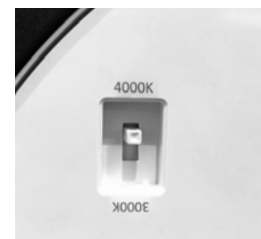
- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- One product provides both 3000K and 4000K colour temperature options
- Rear fixing bracket and terminal housing for ease of installation
- Exceeds performance of 38W TC-DD
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



Chrome Trim Ring Fitted



Ultra slim profile



Selectable CCT switch between 3000K and 4000K

## LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	1846lm
Warm White	1681lm
Lm/W Cool White	109lm
Lm/W Warm White	99lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C

Code	Lamp	Description
<b>AGAMLED/CCT</b>	LED	17W - Cool White / Warm White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/MWS</b>	Internal Microwave Sensor
<b>Accessories</b>	<b>AGAMLEDBZ/CH</b>	Chrome Trim Ring

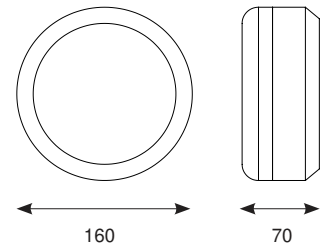


# Beta LED

Supplied c/w Integral Driver



- Multi-purpose compact surface LED bulkhead
- IP44 rating and suitable for bathroom use
- All polycarbonate construction
- Comparable performance to 100W GLS and outperforms 16W CFL equivalents
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours
- Non-dimmable



### LED Information

Total (Watts)	5W
Lumens Delivered	436lm
Lm/W	87lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
<b>ABELED/WV</b>	LED	5W - Cool White - White Base, Opal Visiluxe Diffuser





# Disco Slim LED CCT

Supplied c/w Integral Driver

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- One product provides both 3000K and 4000K colour temperature options
- 7W exceeds performance of 16W TC-DD
- 13W exceeds performance of 38W TC-DD
- Two options of microwave sensor emergency
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



ADSILED1/CCT

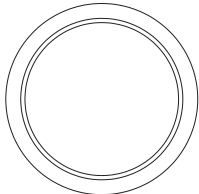
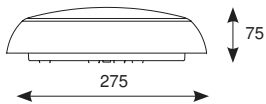
IP65



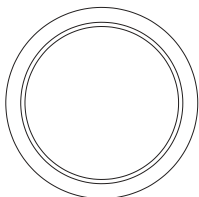
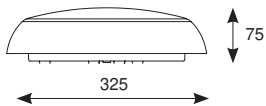
fitted with chrome trim ring



fitted with graphite trim ring



ADSILED1/CCT



ADSILED2/CCT

## LED Information

	Cool White	Warm White
Total (Watts)		7W 13W
Lumens Delivered	643lm 1083lm	575lm 1027lm
Lm/W	92lm 83lm	82lm 79lm
CRI		Ra 80
CCT		4000K 3000K
Input		230V
Hertz		50Hz
Operating Temp		-10°C to 25°C

Code	Lamp	Description
ADSILED1/CCT	LED	7W - Cool White/Warm White
ADSILED2/CCT	LED	13W - Cool White/Warm White

Options		
/M3	Emergency	(13W only)
/MWS	Integral Microwave Sensor	(13W only)

Accessories	Code	Description
	ADSILED/1BZ/CH	Chrome Trim Ring (7W)
	ADSILED/1BZ/GR	Graphite Trim Ring (7W)
	ADSILED/2BZ/CH	Chrome Trim Ring (13W)
	ADSILED/2BZ/GR	Graphite Trim Ring (13W)



# Disco Slim LED

Supplied c/w Integral Driver



ADSILED1

IP65

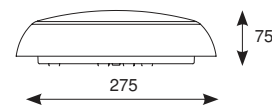


fitted with chrome trim ring

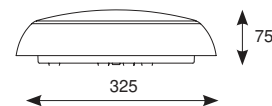


fitted with graphite trim ring

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- 8W exceeds performance of 16W TC-DD
- 13W exceeds performance of 38W CFL
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



ADSILED1



ADSILED2

Code	Lamp	Description
ADSILED1	LED	8W - Cool White
ADSILED1/WW	LED	8W - Warm White
ADSILED2	LED	13W - Cool White
ADSILED2/WW	LED	13W - Warm White

Options	/M3	Emergency (13W only)
	/MWS	Integral Microwave Sensor (13W only)
	/MWS/M3/CF	Integral Microwave Sensor and Emergency CorridorFUNCTION (13W only)

Accessories	ADSILED/1BZ/CH	Chrome Trim Ring (8W)
	ADSILED/1BZ/GR	Graphite Trim Ring (8W)
	ADSILED/2BZ/CH	Chrome Trim Ring (13W)
	ADSILED/2BZ/GR	Graphite Trim Ring (13W)

### LED Information

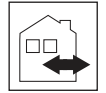
	Cool White	Warm White
Total (Watts)	8W	13W
Lumens Delivered	584lm	547lm
	1021lm	979lm
Lm/W	73lm	68lm
	79lm	75lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 25°C	



# Disco Slim Halo LED

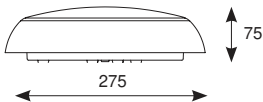
Supplied c/w Integral Driver

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- Unique design creates halo light spill effect
- 8W exceeds performance of 28W TC-DD
- 13W comparable performance to 40W TC-DD
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours

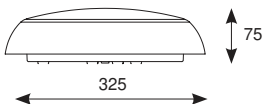


ADSIHLED1

**IP65**



ADSIHLED1



ADSIHLED2



Halo light spill effect



fitted with chrome trim ring



fitted with graphite trim ring

## LED Information

Cool White Warm White

Total (Watts)	8W	
	13W	
Lumens Delivered	687lm	605lm
	1198lm	1064lm
Lm/W	86lm	87lm
	92lm	82lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 25°C	

Code	Lamp	Description
<b>ADSIHLED1</b>	LED	8W - Cool White
<b>ADSIHLED1/WW</b>	LED	8W - Warm White
<b>ADSIHLED2</b>	LED	13W - Cool White
<b>ADSIHLED2/WW</b>	LED	13W - Warm White

Options	/M3	Emergency (13W only)
	/MWS	Integral Microwave Sensor (13W only)
	/MWS/M3/CF	Integral Microwave Sensor and Emergency CorridorFUNCTION (13W only)

Accessories	ADSILED/1BZ/CH	Chrome Trim Ring (8W)
	ADSILED/1BZ/GR	Graphite Trim Ring (8W)
	ADSILED/2BZ/CH	Chrome Trim Ring (13W)
	ADSILED/2BZ/GR	Graphite Trim Ring (13W)



# Disco LED

Supplied c/w Integral Driver



ADILED1

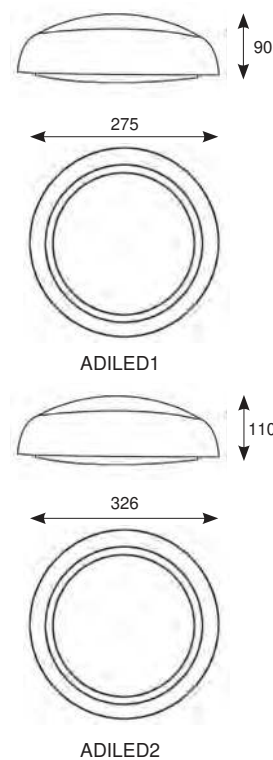
**IP65**



ADILED2

**IP65**

- All polycarbonate construction with opal diffuser and white trim ring
- LED performance exceeds CFL equivalents
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



Code	Lamp	Description
ADILED1	LED	8W - Cool White
ADILED2	LED	14W - Cool White

Options		Description
/M3		Emergency (14W only)
/MWS		Integral Microwave Sensor (14W only)
/MWS/M3/CF		Integral Microwave Sensor and Emergency CorridorFUNCTION (14W only)

Accessories		Description
ADI28BZ/BR		Brass Trim Ring (14W)
ADI28BZ/CH		Chrome Trim Ring (14W)
ADI28BZ/SG		Silver Grey Trim Ring (14W)

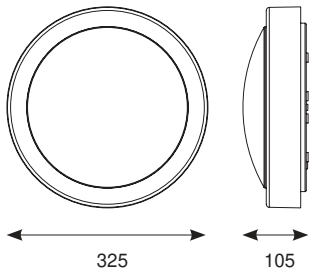
### LED Information

Total (Watts)	8W 14W
Lumens Delivered	539lm 860lm
Lm/W	67lm 61lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 25°C





- Contemporary all polycarbonate fixture for wall/ceiling mounting
- LED performance exceeds CFL equivalents
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Optional chrome trim ring
- LED lifespan L70 56,000 hours



**IP65**

AJALED



Chrome Trim Ring Fitted

**LED Information**

Total (Watts)	14W
Lumens Delivered	993lm
Lm/W	66lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
<b>AJALED</b>	LED	14W - Cool White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/MWS</b>	Internal Microwave Sensor
	<b>/MWS/M3/CF</b>	Integral Microwave Sensor and Emergency CorridorFUNCTION
<b>Accessories</b>	<b>AJALEDDBZ/CH</b>	Chrome Trim Ring



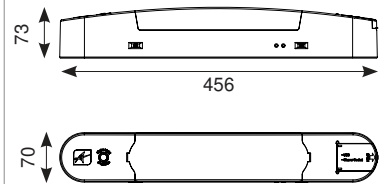
# Profile Dual Voltage LED Razor Light

c/w Integral Driver

260



- Ultra-slim unobtrusive modern design
- Directional light output provides optimum facial illumination
- All switches SELV rated for ultimate safety
- Night light function with four minute timed override switch for full power output
- Only 1.8W power consumption in night light mode
- Optional wiring facility for remote bedside operation of night light function
- USB 2A charge port
- 110/230V selectable shaver output and isolating transformer
- LED lifespan L70 50,000 hours



Access to shaver connection and USB charge port via hinged protective cover. Simple SELV switch provides the ability to select required voltage.



Easy to operate SELV switch function provides the ability to select 100% brightness, night light mode, and on/off settings.



Illuminated soft touch SELV switch for night light, with four minute timed override providing full brightness when required.

## LED Information

Total (Watts)	8W
Lumens Delivered	
Full Power	436lm
Night light	33lm
Lm/W	55lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

Code	Lamp	Description
APLEDDVRL	LED	8W - Cool White



# Dual Voltage Razor Light

Supplied c/w Lamp



261

- Modern profile razor light with dual voltage options (110/230V) and isolating transformer
- Polycarbonate body and diffuser
- Pull cord for illumination
- Prismatic diffuser



Dimensions - mm

Length 493

Width 60

Depth 71



Code	Lamp	Description
ADVRL	284mm Strip	60W - White

# Dual Voltage Shaver Socket



- Modern profile shaver socket with isolating transformer
- 115Volt and 230Volt outputs
- Supplied with screws and plastic covers



ADVSS



Code	Lamp	Description
ADVSS		Dual Voltage Shaver Socket

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750









## Project

*The Kirkfield - Newton-le-Willows, UK*



Beam AC LED p308

# Amenity

---



*Decorative Ceiling/Wall*



*Architectural Die-Cast Wall*



*Directional Wall*



*Decorative Ceiling / Wall*



*Polycarbonate Ceiling / Wall*



*Bulkheads*

338



*Recessed Wall*

350



*Lanterns and Half Lanterns*

359



*Bollards*

384



*Portable Lanterns*

386



*Feature Landscape  
Illumination*

392



*Inground Uplights and Controllers*



*Designed to*  
***Deliver...***

# Reef LED CCT Fixed and Adjustable Surface Downlights

Supplied c/w Integral Driver

- Durable indoor/outdoor surface mounted downlight
- Polycarbonate construction ideal for coastal applications
- CCT selectable between 3000K, 4000K and 6000K
- Unique lockable installation base plate with push fit loop-in loop-out terminals for ease of installation
- Fixed surface and adjustable surface options
- LED lifespan L80 54,000 hours
- Non-dimmable



AREELED D  
Fixed Downlight  
Cool White



AREELED A  
Adjustable Downlight  
Cool White



AREELED D  
Warm White



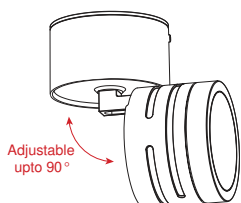
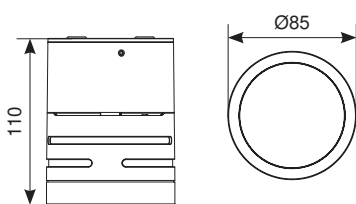
AREELED D  
Daylight



AREELED A  
Warm White



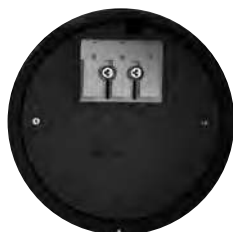
AREELED A  
Daylight



## LED Information

Total (Watts)	5W
Lumens Delivered	
Warm White	450lm
Cool White	486lm
Daylight	471lm
Lm/W	
Warm White	90lm
Cool White	97lm
Daylight	94lm
Beam Angle	90°
CRI	Ra 80
CCT	3000K
	4000K
	6000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C

## Unique Click and Lock Mounting Bracket



Integral CCT switch allows install the choice of 3000K, 4000K and 6000K colour temperature options



1. Fix the detachable mounting plate to the wall and terminate the mains cable. Mount the housing onto the fixing place



2. Align the housing onto the mounting plate, twist into place and screw allen key to secure the fixture to the wall

	Code	Lamp	Description
<b>Fixed</b>	<b>AREELED D</b>	LED	5W - Warm White/Cool White/Daylight
<b>Ajustable</b>	<b>AREELED A</b>	LED	5W - Warm White/Cool White/Daylight - White



Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Furia AC LED

No Driver Required

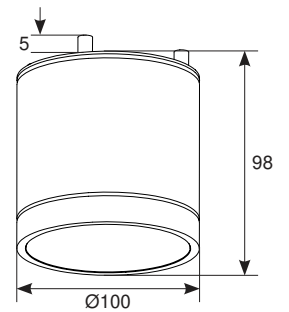


AFULED/W



AFULED/GR

- Shallow AC LED die-cast surface downlight
- Modern aesthetic appearance
- Exceeds performance of 1x26W PL
- Integrated AC LED technology
- 37° beam angle
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



### LED Information

Total (Watts)	10W
Lumens Delivered	719lm
Lm/W	74lm
Beam Angle	37°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
AFULED/W	LED	10W - Warm White - White
AFULED/GR	LED	10W - Warm White - Graphite



# Callisto AC LED Wall/Ceiling

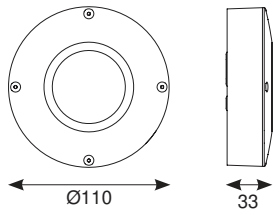
No Driver Required



- Modern surface mounted ultra-slim wall/ceiling light
- Die-cast aluminium construction with choice of white or graphite paint finish
- Integrated AC LED technology
- Dupont paint finish
- Tamper-proof stainless steel allen key screws
- LED lifespan L70 50,000 hours
- Non-dimmable



ACLED/W



ACLED/GR

## LED Information

Total (Watts)	4W
Lumens Delivered	181lm
Lm/W	45lm
Beam Angle	65°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-40°C to 80°C



Code	Lamp	Description
ACLED/W	LED	4W - Warm White - White
ACLED/GR	LED	4W - Warm White - Graphite



# Callisto AC LED Low Level

No Driver Required

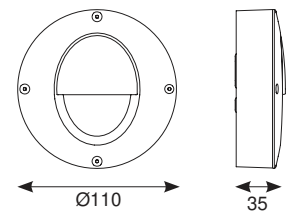


ACLPWLED/W



ACLPWLED/GR

- Modern surface mounted ultra-slim low level light
- Die-cast aluminium construction with choice of white or graphite paint finish
- Dupont paint finish
- Integrated AC LED technology
- Tamper-proof stainless steel allen key screws
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	4W
Lumens Delivered	121lm
Lm/W	31lm
Beam Angle	51°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-40°C to 80°C

Code	Lamp	Description
ACLPWLED/W	LED	4W - Warm White - White
ACLPWLED/GR	LED	4W - Warm White - Graphite







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Newton-le-Willows, UK

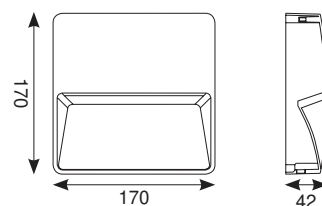
# Galia LED

Supplied c/w Integral Driver

272



- Surface mounting ultra-slim low level square pathway light with downward light-spill
- Die-cast aluminium construction with graphite paint finish
- Comparable performance to 26W PLC
- Screwless front cover with concealed allen key access
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

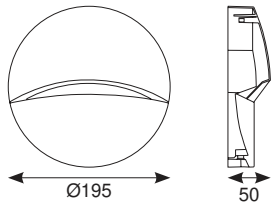
Total (Watts)	10W
Lumens Delivered	300lm
Lm/W	30lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>AGALSQLED</b>	LED	10W - Cool White





- Surface mounting ultra-slim low level circular pathway light with downward light-spill
- Die-cast aluminium construction with graphite paint finish
- Comparable performance to 26W PLC
- Screwless front cover with concealed allen key access
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	10W
Lumens Delivered	360lm
Lm/W	36lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
<b>AMATROLED</b>	LED	10W - Cool White



# Kappa LED

Supplied c/w Integral Driver

274

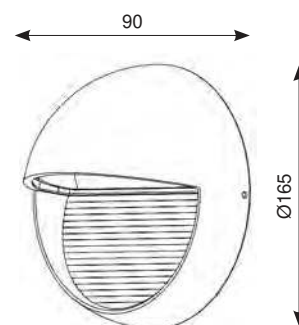


AKLED/B/WW



AKLED/SG

- Compact wall light with integral driver
- Downward light spill ideal for pathway illumination
- Die-cast aluminium construction
- LED lifespan L70 40,000 hours
- Non-dimmable



### LED Information

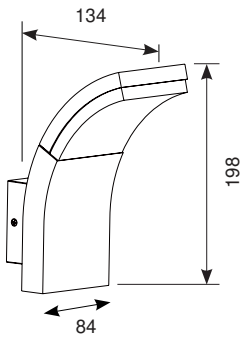
Total (Watts)	4.5W
Lumens Delivered	
Cool White	270lm
Warm White	117lm
Lm/W	
Cool White	60lm
Warm White	26lm
CRI	Ra 70
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
AKLED/B	LED	4.5W Cool White - Black
AKLED/SG	LED	4.5W Cool White - Silver Grey
AKLED/B/WW	LED	4.5W Warm White - Black
AKLED/SG/WW	LED	4.5W Warm White - Silver Grey





- Contemporary die-cast aluminium LED wall light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable



**PIR**



6 to 9 metres  
5 seconds to 8 minutes  
10 to 2000 LUX

**LED Information**

Total (Watts)	6.5W
Lumens Delivered	366lm
Lm/W	52lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



ASELED/WL



ASELED/WL/PIR

	Code	Lamp	Description
<b>Standard</b>	<b>ASELED/WL</b>	LED	6.5W Cool White
<b>PIR</b>	<b>ASELED/WL/PIR</b>	LED	6.5W - PIR - Cool White



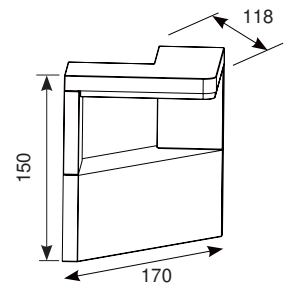
# Arco LED

Supplied c/w Integral Driver

276



- Ultra modern LED wall light
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable



## LED Information

Total (Watts)	11W
Lumens Delivered	643lm
Lm/W	58lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AARLED/WL	LED	11W Cool White

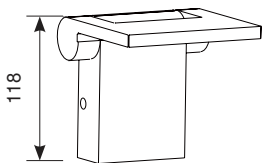
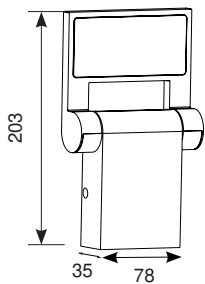


# Tempo LED

Supplied c/w Integral Driver



- Contemporary die-cast aluminium LED wall light
- Adjustable head to 90° for variable direction of light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable



6 to 10 metres  
8 seconds to 8 minutes  
5 to 200 LUX

### LED Information

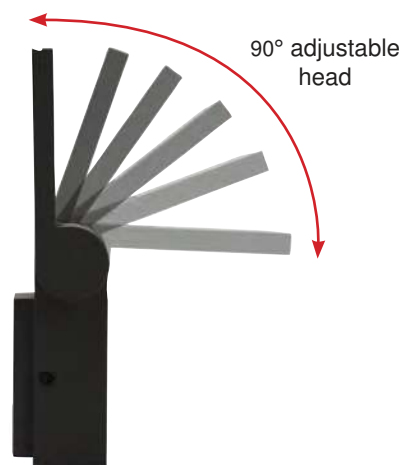
Total (Watts)	10W
Lumens Delivered	738lm
Lm/W	73lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



ATLED/WL



ATLED/WL/PIR



	Code	Lamp	Description
<b>Standard</b>	<b>ATLED/WL</b>	LED	10W Cool White
<b>PIR</b>	<b>ATLED/WL/PIR</b>	LED	10W - PIR - Cool White



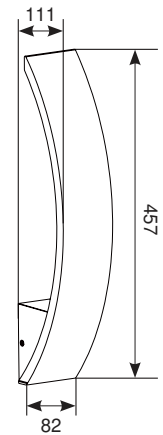
# Dolce LED

Supplied c/w Integral Driver



ADOCLED/WL

- Ultra modern LED wall light
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable



### LED Information

Total (Watts)	10W
Lumens Delivered	690lm
Lm/W	76lm
CRI	Ra 80
CCT	4000K
Input	100/240V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
ADOCLED/WL	LED	10W Cool White



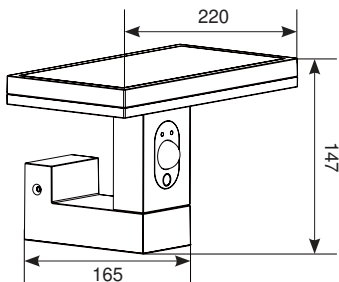


# Pavia Solar LED

Supplied c/w Integral Driver



- Ultra modern die-cast solar powered aluminium LED wall light
- PIR motion sensor as standard
- Automatic day/night mode switching
- 2 operation modes:-  
1) 15% output after sunset, motion detected 100% output, no motion 15% for 20 hours  
2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan  
L70 36,000 hours



6 to 10 metres  
1 minute  
10 to 45 LUX

### LED Information

Lumens Delivered	230lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C



Code	Lamp	Description
APAVLED/WL	LED	Cool White
<b>Accessories ASBP/17</b>	<b>7.4V 1500mAh Replacement Li-ION Battery</b>	

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



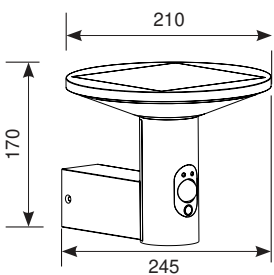


**Project - Private Residence**  
Newton-le-Willows, UK

# Talana Solar LED

Supplied c/w Integral Driver

- Ultra modern die-cast solar powered aluminium LED wall light
- PIR motion sensor as standard
- 2 operation modes:-
  - 1) 11% output after sunset, motion detected 100% output, no motion 11% for 20 hours
  - 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan  
L70 36,000 hours



**PIR**



6 to 10 metres  
1 minute  
10 to 45 LUX

### LED Information

Lumens Delivered	210lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C



Code	Lamp	Description
ATASLED/WL	LED	Cool White

<b>Accessories</b> ASBP/17	7.4V 1500mAh Replacement Li-ION Battery
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Warrington: +44 (0) 1942 433333  
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# Uno LED

Supplied c/w Integral Driver

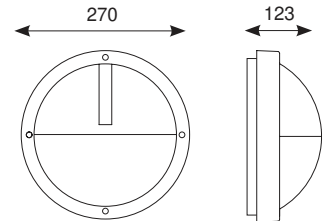


AUNLED/SG



AUNLED

- Die-cast aluminium construction with tamper-proof stainless steel allen key screws and opal polycarbonate diffuser
- LED lifespan L70 50,000 hours
- Non-dimmable



### LED Information

Total (Watts)	12W
Lumens Delivered	442lm
Lm/W	37lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
AUNLED	LED	12W - Cool White - Black
AUNLED/SG	LED	12W - Cool White - Silver Grey



# Tridon LED CCT

Supplied c/w Integral Driver



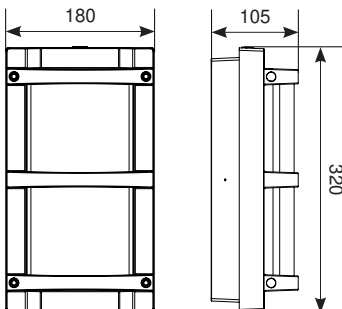
- Die-cast aluminium construction with opal polycarbonate diffuser
- Exceeds performance of 16W TC-DD
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K at the point of installation
- Rear fixing points allowing the option for BESA box mounting
- Horizontal side pilot holes accepting 20mm surface conduit entries
- Tamper-proof stainless steel allen key screws
- Microwave sensor and Photocell options available
- LED lifespan L70 60,000 hours
- Non-dimmable



ATRILED/B  
Warm White



ATRILED/G  
Cool White



### LED Information

Total (Watts)	8W
Lumens Delivered	
Cool White	701lm
Warm White	695lm
Lm/W	
Cool White	88lm
Warm White	87lm
CRI	Ra 80
CCT	3000K
	4000K
Input	220-240V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>ATRILED/B</b>	LED	8W - Cool White/ Warm White - Black
<b>ATRILED/G</b>	LED	8W - Cool White/ Warm White - Graphite

<b>Options</b>	<b>/PC</b>	Electronic Photocell
	<b>/MWS</b>	Integral Microwave Sensor



# Lucca LED CCT

Supplied c/w Integral Driver



- Die-cast aluminium construction with tamper-proof stainless steel allen key screws to retain opal polycarbonate diffuser and frame
- One product with integral switches for multi-wattage and selectable CCT options
- 18W exceeds performance of 38W TC-DD
- 27W exceeds performance of 2x26W PL-C
- LED lifespan L70 60,000 hours
- Non-dimmable



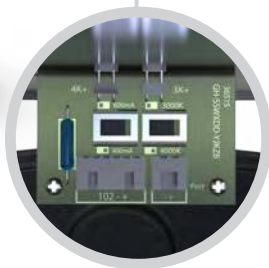
ALUCLED/B



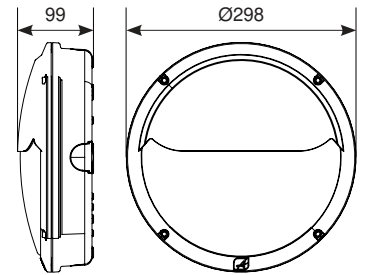
ALUCLED/G



Integral switches for multi-wattage and selectable CCT options



Removable 20mm conduit entry cover for ease of installation



### LED Information

Total (Watts)	18W/27W	
Lumens Delivered	4000K	3000K
18W	1149lm	1091lm
27W	1622lm	1563lm
Lm/W 18W	64lm	61lm
Lm/W 27W	60lm	58lm
CRI	Ra 80	
CCT	4000K 3000K	
Input	220-240V	
Hertz	50/60Hz	
Operating Temp	-20°C to 25°C	

Code	Lamp	Description
ALUCLED/B	LED	18W/27W - Cool White/ Warm White - Black
ALUCLED/G	LED	18W/27W - Cool White/ Warm White - Graphite

Options		
/PC	Electronic Photocell	
/M3	Emergency	
/SM3	Self-Test Emergency	
/DM3	DALI Emergency	
/MWS	Integral Microwave Sensor	



# Nappa LED CCT

Supplied c/w Integral Driver

- Die-cast aluminium construction with tamper-proof stainless steel allen key screws to retain opal polycarbonate diffuser and frame
- One product with integral switches for multi-wattage and selectable CCT options
- 18W exceeds performance of 38W TC-DD
- 28W exceeds performance of 2x26W PL-C
- LED lifespan L70 60,000 hours
- Non-dimmable



ANAPLED/B



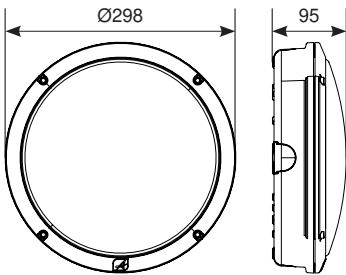
ANAPLED/G



Removable 20mm conduit entry cover for ease of installation



Integral switches for multi-wattage and selectable CCT options



### LED Information

Total (Watts)	18W/27W	
Lumens Delivered	4000K	3000K
18W	2104lm	2012lm
27W	3065lm	2924lm
Lm/W 18W	117lm	112lm
Lm/W 27W	114lm	108lm
CRI	Ra 80	
CCT	4000K	3000K
Input	220-240V	
Hertz	50/60Hz	
Operating Temp	-20°C to 25°C	

Code	Lamp	Description
<b>ANAPLED/B</b>	LED	18W/27W - Cool White/ Warm White - Black
<b>ANAPLED/G</b>	LED	18W/27W - Cool White/ Warm White - Graphite

Options	Code	Description
	/PC	Electronic Photocell
	/M3	Emergency
	/SM3	Self-Test Emergency
	/DM3	DALI Emergency
	/MWS	Integral Microwave Sensor



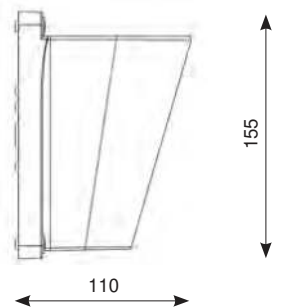
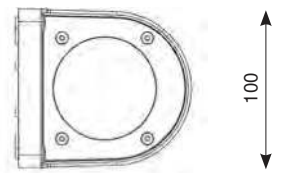
# Dugas

Supplied Less Lamp

286



- Compact die-cast aluminium wall light
- Installation in either upward or downward orientation
- Luminaire design allows for installation of GU10 LED lamps
- Graphite textured paint finish



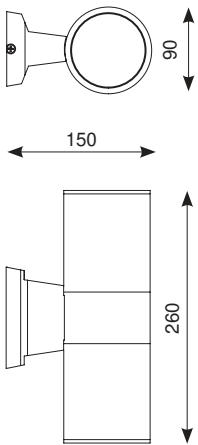
Code	Lamp	Description
ADU50	GU10	50W







- Bi-directional wall light with housing in die-cast aluminium with a textured paint finish
- Large diameter housing to provide heat dissipation



ADM50GU10

ADM50GU10/SG

Code	Lamp	Description
ADM50GU10	GU10	2 x 50W - Black
ADM50GU10/SG	GU10	2 x 50W - Silver Grey

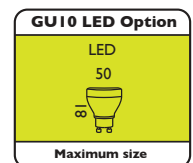
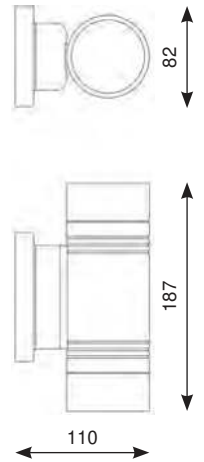


# Tandem

Supplied Less Lamp



- Bi-directional wall light
- Ideal for GU10 LED or GU10 mains halogen options
- Aluminium construction with graphite textured paint finish



Code	Lamp	Description
ATA2X50	GU10	2 x 50W



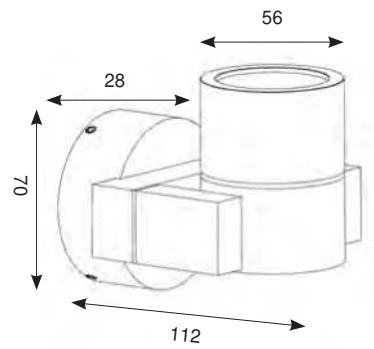


**Project - Private Residence**  
Abersoch, UK

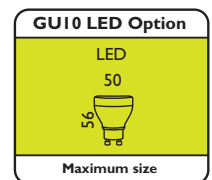
# Riola

Supplied Less Lamp

290

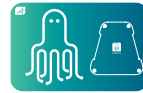


- Modern wall light with adjustable 180° head in vertical plane
- For use in both internal and external applications
- Brushed aluminium finish
- Suitable for GU10 LED or GU10 Mains halogen

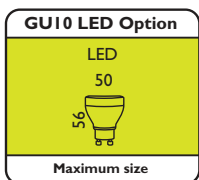
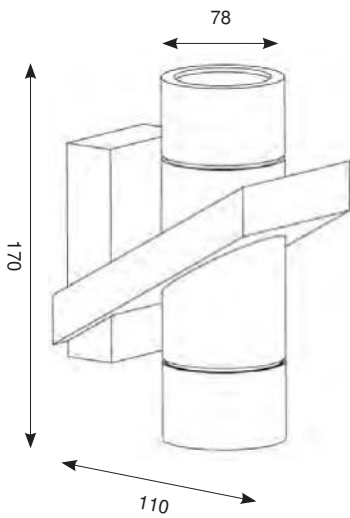


Code	Lamp	Description
ARGU10	GU10	35W





- Modern bi-directional wall light with brushed aluminium finish
- For use in both internal and external applications
- Suitable for GU10 LED or GU10 Mains halogen



Code	Lamp	Description
ACO2X35	GU10	2 x 35W



# Reef LED CCT Bi-directional Wall Light

Supplied c/w Integral Driver

292



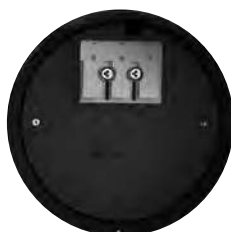
AREELEDWL  
Cool White



AREELEDWL/PIR  
Warm White



AREELEDWL  
Daylight



Unique Click and Lock  
Mounting Bracket



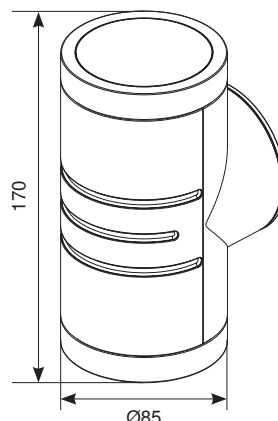
1 metres - 10 metres  
5 seconds to 12 minutes  
3 to 1000 LUX



1. Fix the detachable mounting plate to the wall and terminate the mains cable. Mount the housing onto the fixing place



2. Align the housing onto the mounting plate, twist into place and screw allen key to secure the fixture to the wall



## LED Information

Total (Watts)	10W
Lumens Delivered	
Warm White	815lm
Cool White	885lm
Daylight	860lm
Lm/W	
Warm White	82lm
Cool White	89lm
Daylight	86lm
Beam Angle	90°
CRI	Ra 80
CCT	3000K 4000K 6000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C

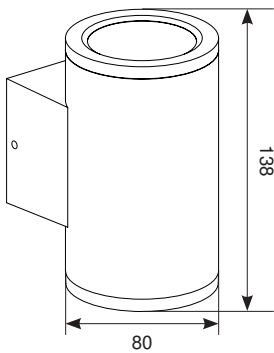


# Antila LED

Supplied c/w Integral Driver



- Die-cast aluminium bi-directional LED wall light
- Die-cast aluminium construction with graphite paint finish
- 90° Beam Angle
- LED lifespan L70 30,000 hours
- Non-Dimmable



### LED Information

Total (Watts)	12W
Lumens Delivered	406lm
Lm/W	37lm
Beam Angle	90°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
<b>ANTIALED</b>	LED	12W - Cool White



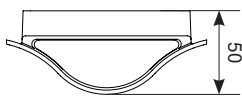
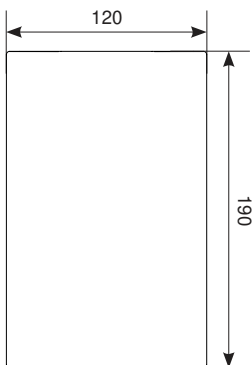


**Project - Commercial Development**  
Golborne, UK





- Bi-directional LED wall light
- Die-cast aluminium construction with graphite paint finish
- 105° Beam Angle
- LED lifespan L70 30,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	12W
Lumens Delivered	491lm
Lm/W	41lm
Beam Angle	105°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
AZATLED	LED	12W - Cool White

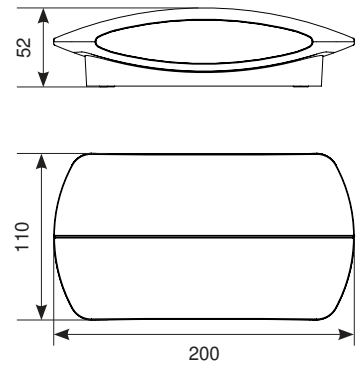


# Segano LED

Supplied c/w Integral Driver



- Bi-directional LED wall light
- Die-cast aluminium construction with polycarbonate diffuser
- 90° Beam Angle
- LED lifespan L70 30,000 hours
- Non-dimmable



### LED Information

Total (Watts)	13W
Lumens Delivered	610lm
Lm/W	47lm
Beam Angle	90°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

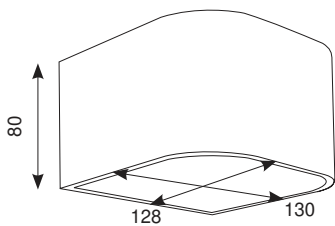
Code	Lamp	Description
ASEGLED	LED	13W - Cool White



# Gila LED

Supplied c/w Integral Driver

- Modern bi-directional wall light providing vivid angled light distribution
- Exceeds performance of 100W halogen
- Die-cast aluminium body with a graphite powder coated anodized paint finish for enhanced durability
- LED lifespan L70 30,000 hours
- Non-dimmable



### LED Information

Total (Watts)	11W
Lumens Delivered	202lm
Lm/W	18lm
Beam Angle	117°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
AGLED/WL	LED	11W - Cool White

Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750

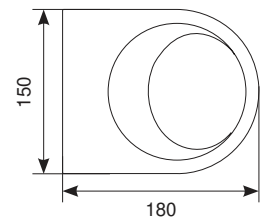


# Brock LED Wall Light

Supplied c/w Integral Driver



- Modern bi-directional wall light providing vivid angled light distribution
- Die-cast aluminium body with a graphite powder coated anodized paint finish for enhanced durability
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	7.7W
Lumens Delivered	
Cool White	452lm
Warm White	448lm
Lm/W	
Cool White	57lm
Warm White	56lm
Beam Angle	90°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
ABRLED/WL/CW	LED	7.7W - Cool White
ABRLED/WL/WW	LED	7.7W - Warm White





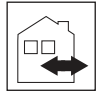


***Project - Private Residence***  
*Chorley, UK*

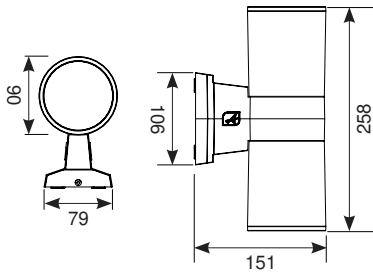
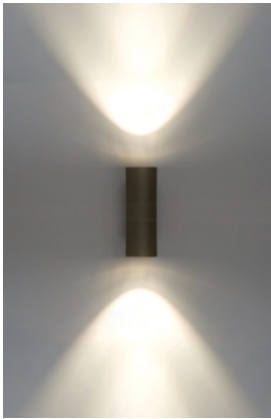
# Duo Midi LED

Supplied c/w Integral Driver

301



- Bi-directional LED wall light
- 19W exceeds performance of 70W CDM-T
- 42W exceeds performance of 150W CDM-T
- Die-cast aluminium construction with graphite paint finish
- Powered by Philips
- 34° beam angle
- LED lifespan L70 50,000 hours
- Non-dimmable



ADMLED1/GR/CW

### LED Information

Total (Watts)	19W
	42W
Lumens Delivered	
19W	1752lm
42W	3582lm
Lm/W 19W	92lm
Lm/W 42W	85lm
Beam Angle	34°
CRI	Ra 80
CCT	4000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
ADMLED1/GR/CW	LED	19W - Cool White - Graphite
ADMLED2/GR/CW	LED	42W - Cool White - Graphite

Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750





**Project - Bridgford Retail Park**  
Nottingham, UK

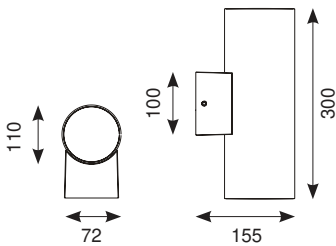


# Doppio LED

Supplied c/w Integral Driver



- Powerful architectural bi-directional wall light
- Exceeds performance of 50W HQI
- Die-cast aluminium construction with graphite paint finish
- 20° beam angle
- LED lifespan L70 50,000 hours
- Non-dimmable



### LED Information

Total (Watts)	34W
Lumens Delivered	2 x 848lm
Lm/W	50lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
ADOLEDWL	LED	34W - Cool White



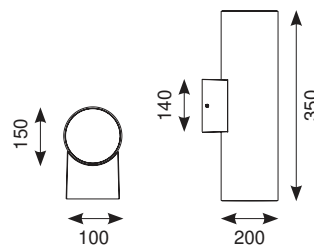
# Doppio HP LED

Supplied c/w Integral Driver

304



- High performance architectural bi-directional wall light
- Exceeds performance of 150W Metal Halide
- Die-cast aluminium construction with graphite paint finish
- 20° beam angle
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	56W
Lumens Delivered	2x2573lm
Lm/W	91lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
ADOLEDWL/HP	LED	56W - Cool White





**Project - Aintree University Hospital**  
Liverpool, UK

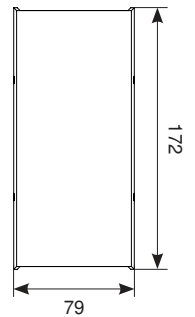
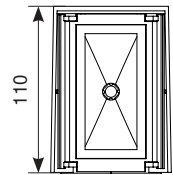
# Alto LED

Supplied c/w Integral Driver

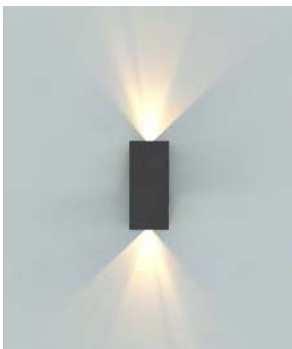
306



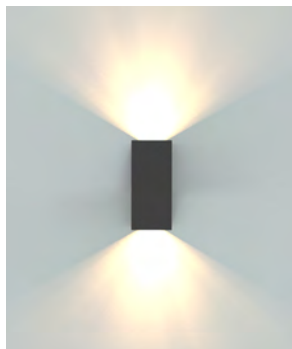
- Surface bi-directional die-cast wall light providing adjustable beam angle
- Independent beam angle adjustment between up and down distribution
- Minimum beam angle 0°, maximum beam angle 90°
- Die-cast aluminium body with graphite powder coated anodized paint finish for enhanced durability
- LED lifespan L70 30,000 hours
- Non-dimmable



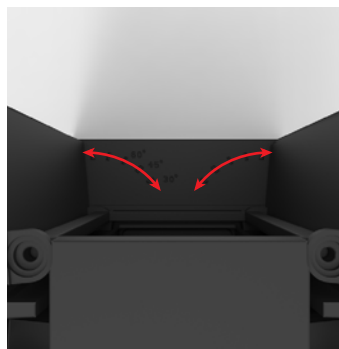
30° Beam Angle



Full Open Beam Angle



Independent beam angle Adjustment



## LED Information

Total (Watts)	6W
Lumens Delivered	205lm
Lm/W	34lm
Beam Angle	0° - 90°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 50°C

Code	Lamp	Description
ALTOLED	LED	6W - Cool White

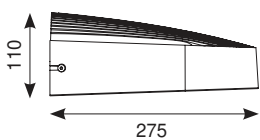
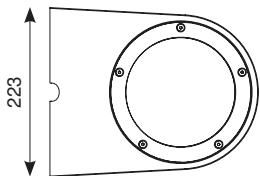




- Dual purpose design allows installation as either a canopy light or as an uplight
- Comparable performance to 20W HQI
- Aluminium housing is manufactured from high purity marine grade aluminium and treated with a six stage chrome plating treatment and dry polyester powder coating ensuring excellent corrosion resistance
- Screws manufactured from marine grade stainless steel
- LED lifespan L70 50,000 hours
- Tempered glass cover
- Non-dimmable



Top View



### LED Information

Total (Watts)	12W
Lumens Delivered	900lm
Lm/W	75lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
<b>AAROLED</b>	LED	12W - Cool White



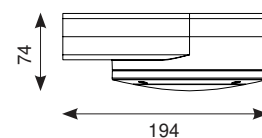
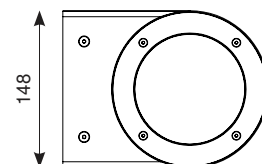
# Beam AC LED

No Driver Required

308



- Compact and powerful die-cast aluminium wall light
- Dual purpose design allows installation as either a canopy downlight or as an uplight
- Exceeds performance of 70W HQI
- Integrated AC LED technology
- Allen key screws manufactured from marine grade stainless steel
- LED lifespan L70 70,000 hours
- Non-dimmable



## LED Information

Total (Watts)	20W
Lumens Delivered	1624lm
Lm/W	81lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
<b>ABEAMLED</b>	LED	20W - Cool White





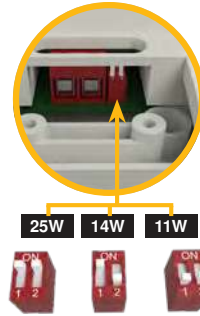
**Project - The Kirkfield**  
Newton-le-Willows, UK

# Eclipse MultiLED CCT

Supplied c/w Integral Driver



AECLELED/CH/CCT

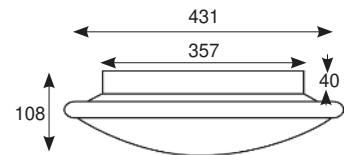


AECLELED/W/CCT



AECLELED/SC/CCT

- LED wall/ceiling luminaire with adjustable power and light output option
- One product with integral driver dip-switch
- Internal CCT selector switch allows the installer to choose the CCT between 3000K, 4000K and 6500K
- Lumen package options allow retrofit of 28W, 38W or 55W CFL luminaires
- Flexibility of performance allows suitability for multiple applications
- Spun aluminium base with dished opal Visiluxe diffuser
- BESA box fixing versatile mounting options
- Option of White, Chrome or Satin Chrome housing
- LED lifespan L70 54,000 hours



Code	Lamp	Description
------	------	-------------

<b>AECLELED/W/CCT</b>	LED	11W/14W/25W - White
<b>AECLELED/CH/CCT</b>	LED	11W/14W/25W - Chrome
<b>AECLELED/SC/CCT</b>	LED	11W/14W/25W - Satin Chrome

Options		
<b>/M3</b>	Self-Test Emergency	
<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4 - 25W only)	
<b>/MWS</b>	Integral Microwave Sensor	

### LED Information

Total (Watts)	11W/14W/25W			
<b>Lumens Delivered</b>	3000K	4000K	6500K	
11W	1165lm	1193lm	1202lm	
14W	1454lm	1493lm	1491lm	
25W	2700lm	2846lm	2762lm	
<b>Lm/W</b>	11W	106lm	108lm	109lm
<b>Lm/W</b>	14W	104lm	107lm	107lm
<b>Lm/W</b>	25W	108lm	114lm	110lm
<b>CRI</b>	Ra 80			
<b>CCT</b>	3000K			
	4000K			
	6500K			
<b>Input</b>	230V			
<b>Hertz</b>	50/60Hz			
<b>Operating Temp</b>	-10°C to 25°C			



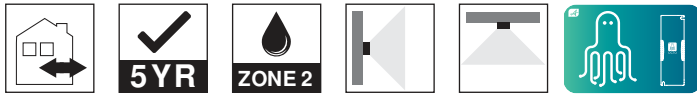




**Project - Mickle Hill Nursing Home**  
Pickering, UK

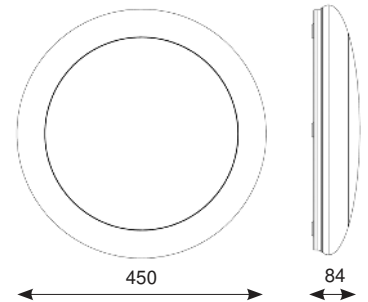
# Mercury CCT LED

Supplied c/w Integral Driver



Chrome Trim Ring Fitted

- IP44 polycarbonate wall/ceiling light for corridors, stairwells and general amenity applications
- High output option allows for a range of installation applications
- LED performance significantly exceeds CFL equivalents
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K at the point of installation (**19W only**)
- BESA box fixing facility
- Integral laminated board heatsink provides high performance thermal management
- Digital dimming, self-test emergency, DALI emergency and microwave sensor options
- Chrome bezel accessory
- LED lifespan L70 56,000 hours



Code	Lamp	Description
<b>AMERLED/CCT</b>	LED	19W - Matt White - Cool White/Warm White
<b>AMERLED/HP</b>	LED	33W - Matt White - Warm White Only

Options		
<b>/M3</b>	Emergency	
<b>/OCTO</b>	OCTO Smart Control	
<b>/DD</b>	Digital Dimming (DD1/DD2/DD3)	
<b>/MWS</b>	Integral Microwave Sensor	

<b>Accessories</b>	<b>AMERLEDBZ/CH</b>	Chrome Trim Ring
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### LED Information

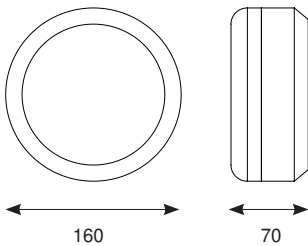
<b>Total (Watts)</b>	19W 33W	
<b>Lumens Delivered</b>	4000K	3500K
19W	1655lm	1420lm
33W	N/A	2702lm
<b>Lm/W 19W</b>	87lm	71lm
<b>Lm/W 33W</b>	N/A	82lm
<b>CRI</b>	Ra 80	
<b>CCT</b>	4000K 3500K	
<b>Input</b>	230V	
<b>Hertz</b>	50/60Hz	
<b>Operating Temp</b>	-10°C to 40°C	



# Beta LED

Supplied c/w Integral Driver

- Multi-purpose compact surface LED bulkhead
- IP44 rating and suitable for bathroom use
- All polycarbonate construction
- Comparable performance to 100W GLS and outperforms 16W CFL equivalents
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours
- Non-dimmable



### LED Information

Total (Watts)	5W
Lumens Delivered	436lm
Lm/W	87lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C



Code	Lamp	Description
ABELED/WV	LED	5W - Cool White - White Base, Opal Visiluxe Diffuser

Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750



# Gamma Mini LED

Supplied c/w Integral Driver

314



AMGAMLED

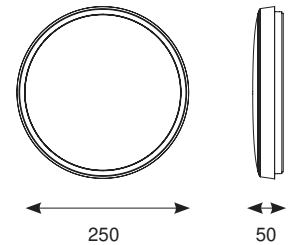


Chrome Trim Ring Fitted



Ultra slim profile

- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Performance comparable to 28W TC-DD
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



Code	Lamp	Description
<b>AMGAMLED</b>	LED	11W - Cool White
<b>AMGAMLED/WW</b>	LED	11W - Warm White

Options	Description
<b>/M3</b>	Emergency
<b>/MWS</b>	Internal Microwave Sensor

Accessories	Description
<b>AMGAMLEDBZ/CH</b>	Chrome Trim Ring

## LED Information

Total (Watts)	11W
Lumens Delivered	
Cool White	1031lm
Warm White	971lm
Lm/W Cool White	94lm
Lm/W Warm White	88lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C



# Gamma Mini LED CCT

Supplied c/w Integral Driver



315



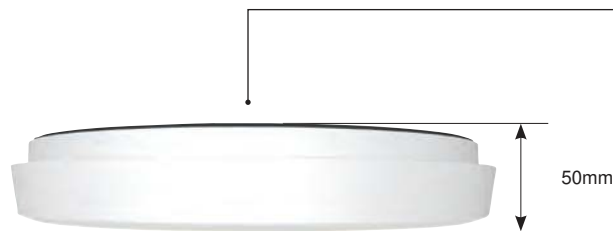
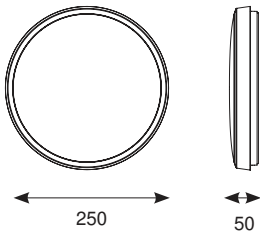
- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- CCT selectable between 3000K and 4000K
- Rear fixing bracket and terminal housing for ease of installation
- Exceeds performance of 28W TC-DD
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



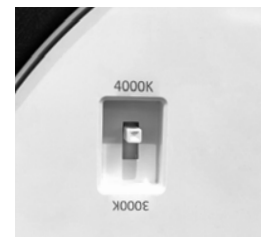
AMGAMLED/CCT



Chrome Trim Ring Fitted



Ultra slim profile



Selectable CCT switch between 3000K and 4000K

## LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	1148lm
Warm White	1053lm
Lm/W Cool White	115lm
Lm/W Warm White	105lm
CRI	Ra 80
CCT	4000K 3000K
Input	220-240V
Hertz	50/60Hz
Operating Temp	-5°C to 35°C

Code	Lamp	Description
AMGAMLED/CCT	LED	10W - Cool White/Warm White

Options		
/M3	Emergency	
/MWS	Internal Microwave Sensor	

Accessories	AMGAMLEDBZ/CH	Chrome Trim Ring
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# Gamma LED

Supplied c/w Integral Driver

316



AGAMLED

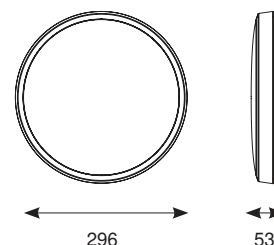


Chrome Trim Ring Fitted



Ultra slim profile

- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Outperforms 38W CFL with opal diffuser by 25% and prismatic diffuser by 52%
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



Code	Lamp	Description
<b>AGAMLED</b>	LED	18W - Cool White
<b>AGAMLED/WW</b>	LED	18W - Warm White

Options		
<b>/M3</b>	Emergency	
<b>/MWS</b>	Internal Microwave Sensor	

Accessories		
<b>AGAMLEDBZ/CH</b>	Chrome Trim Ring	

### LED Information

Total (Watts)	18W
Lumens Delivered	
Cool White	1675lm
Warm White	1551lm
Lm/W Cool White	93lm
Lm/W Warm White	86lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C

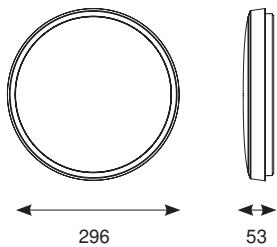


# Gamma LED CCT

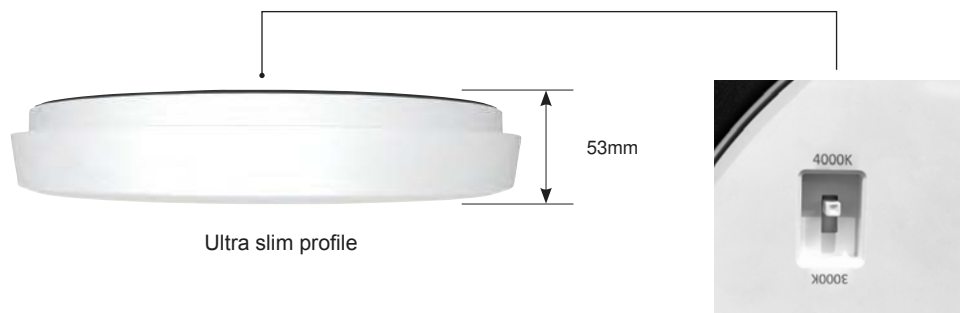
Supplied c/w Integral Driver



- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- CCT selectable between 3000K and 4000K
- Rear fixing bracket and terminal housing for ease of installation
- Exceeds performance of 38W TC-DD
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



Chrome Trim Ring Fitted



Ultra slim profile

Selectable CCT switch between 3000K and 4000K

## LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	1847lm
Warm White	1681lm
Lm/W Cool White	106lm
Lm/W Warm White	96lm
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-5°C to 35°C

	Code	Lamp	Description
	<b>AGAMLED/CCT</b>	LED	17W - Cool White / Warm White
<b>Options</b>	<b>/M3</b>	Emergency	
	<b>/MWS</b>	Internal Microwave Sensor	
<b>Accessories</b>	<b>AGAMLEDBZ/CH</b>	Chrome Trim Ring	



# Jazz LED

Supplied c/w Integral Driver

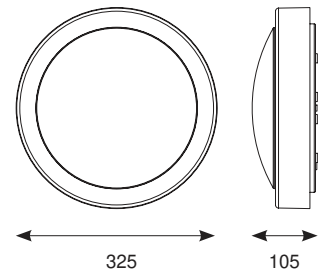


**IP65**

AJALED



Chrome Trim Ring Fitted



- Contemporary all polycarbonate fixture for wall/ceiling mounting
- LED performance exceeds CFL equivalents
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Optional chrome trim ring
- LED lifespan L70 56,000 hours

Code	Lamp	Description
<b>AJALED</b>	LED	14W - Cool White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/MWS</b>	Internal Microwave Sensor
	<b>/MWS/M3/CF</b>	Integral Microwave Sensor and Emergency CorridorFUNCTION
<b>Accessories</b>	<b>AJALEDDBZ/CH</b>	Chrome Trim Ring

### LED Information

Total (Watts)	14W
Lumens Delivered	993lm
Lm/W	66lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C





# Disco Slim LED CCT

Supplied c/w Integral Driver

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- 7W exceeds performance of 16W TC-DD
- 13W exceeds performance of 38W TC-DD
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K at the point of installation
- Two options of microwave sensor emergency
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



ADSILED1/CCT

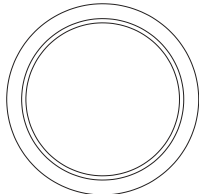
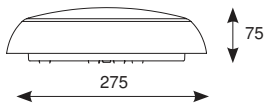
**IP65**



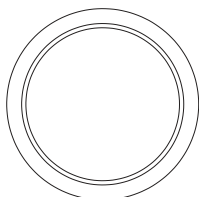
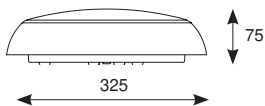
fitted with chrome trim ring



fitted with graphite trim ring



ADSILED1/CCT



ADSILED2/CCT

### LED Information

	Cool White	Warm White
Total (Watts)		8W 13W
Lumens Delivered	643lm 1083lm	575lm 1027lm
Lm/W	92lm 83lm	82lm 79lm
CRI		Ra 80
CCT		4000K 3000K
Input		230V
Hertz		50Hz
Operating Temp		-10°C to 25°C

Code	Lamp	Description
ADSILED1/CCT	LED	8W - Cool White/Warm White
ADSILED2/CCT	LED	13W - Cool White/Warm White

Options		
/M3	Emergency	(13W only)
/MWS	Integral Microwave Sensor	(13W only)

Accessories		
ADSILED/1BZ/CH	Chrome Trim Ring	(8W)
ADSILED/1BZ/GR	Graphite Trim Ring	(8W)
ADSILED/2BZ/CH	Chrome Trim Ring	(13W)
ADSILED/2BZ/GR	Graphite Trim Ring	(13W)



# Disco Slim LED

Supplied c/w Integral Driver

320



ADSILED1

IP65

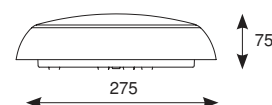


fitted with chrome trim ring

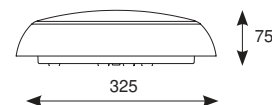


fitted with graphite trim ring

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- 8W exceeds performance of 16W TC-DD
- 13W exceeds performance of 38W CFL
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



ADSILED1



ADSILED2

Code	Lamp	Description
ADSILED1	LED	8W - Cool White
ADSILED1/WW	LED	8W - Warm White

ADSILED2	LED	13W - Cool White
ADSILED2/WW	LED	13W - Warm White

Options		
/M3	Emergency (13W only)	
/MWS	Integral Microwave Sensor (13W only)	
/MWS/M3/CF	Integral Microwave Sensor and Emergency CorridorFUNCTION (13W only)	

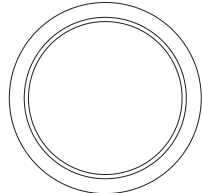
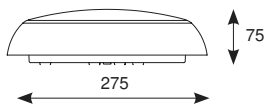
Accessories		
ADSILED/1BZ/CH	Chrome Trim Ring (8W)	
ADSILED/1BZ/GR	Graphite Trim Ring (8W)	
ADSILED/2BZ/CH	Chrome Trim Ring (13W)	
ADSILED/2BZ/GR	Graphite Trim Ring (13W)	

## LED Information

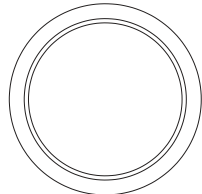
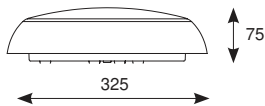
	Cool White	Warm White
Total (Watts)	8W	13W
Lumens Delivered	584lm	547lm
	1021lm	979lm
Lm/W	73lm	68lm
	79lm	75lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 25°C	



- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- Unique design creates halo light spill effect
- 8W exceeds performance of 28W TC-DD
- 13W comparable performance to 40W TC-DD
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



ADSIHLED1



ADSIHLED2

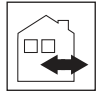
### LED Information

Cool White Warm White

Total (Watts)	8W	13W
Lumens Delivered	687lm	605lm
	1198lm	1064lm
Lm/W	86lm	87lm
	92lm	82lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 25°C	

## Disco Slim Halo LED

Supplied c/w Integral Driver



321



ADSIHLED1

IP65



Halo light spill effect



fitted with chrome trim ring



fitted with graphite trim ring

Code	Lamp	Description
<b>ADSIHLED1</b>	LED	8W - Cool White
<b>ADSIHLED1/WW</b>	LED	8W - Warm White

<b>ADSIHLED2</b>	LED	13W - Cool White
<b>ADSIHLED2/WW</b>	LED	13W - Warm White

<b>Options</b>	<b>/M3</b>	Emergency (13W only)
	<b>/MWS</b>	Integral Microwave Sensor (13W only)
	<b>/MWS/M3/CF</b>	Integral Microwave Sensor and Emergency CorridorFUNCTION (13W only)

<b>Accessories</b>	<b>ADSILED/1BZ/CH</b>	Chrome Trim Ring (8W)
	<b>ADSILED/1BZ/GR</b>	Graphite Trim Ring (8W)
	<b>ADSILED/2BZ/CH</b>	Chrome Trim Ring (13W)
	<b>ADSILED/2BZ/GR</b>	Graphite Trim Ring (13W)



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# Disco LED

Supplied c/w Integral Driver

322



ADILED1

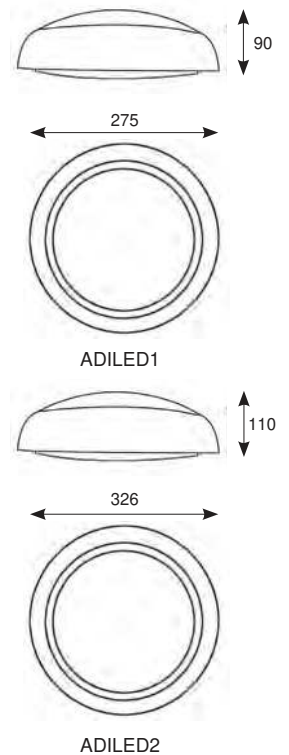
**IP65**



ADILED2

**IP65**

- All polycarbonate construction with opal diffuser and white trim ring
- LED performance exceeds CFL equivalents
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



Code	Lamp	Description
ADILED1	LED	8W - Cool White
ADILED2	LED	14W - Cool White

Options		
/M3	Emergency (14W only)	
/MWS	Integral Microwave Sensor (14W only)	
/MWS/M3/CF	Integral Microwave Sensor and Emergency CorridorFUNCTION (14W only)	

Accessories		
ADI28BZ/BR	Brass Trim Ring (14W)	
ADI28BZ/CH	Chrome Trim Ring (14W)	
ADI28BZ/SG	Silver Grey Trim Ring (14W)	

## LED Information

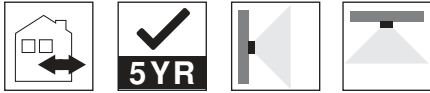
Total (Watts)	8W
	14W
Lumens Delivered	539lm
	860lm
Lm/W	67lm
	61lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 25°C





# Astro LED CCT

Supplied c/w Integral Driver and Trim Accessory



AALED1/BV/CCT  
(Fitted with Trim Attachment)

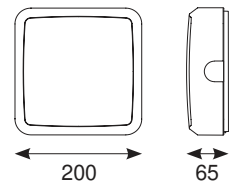


AALED1/WV/CCT

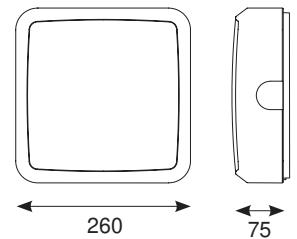


AALED2/WV/CCT  
(Fitted with Trim Attachment)

- All polycarbonate multi-purpose LED square bulkhead
- LED performance exceeds CFL equivalents
- Push fit feed-in, feed-out terminals for speed and ease of installation
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K
- Supplied c/w optional trim attachment which provides a more commercially aesthetic appearance
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



AALED1/CCT



AALED2/CCT

### LED Information

Total (Watts)	7W / 14W	
Lumens Delivered	4000K	3000K
7W	655lm	606lm
14W	1269lm	1170lm
Lm/W 7W	94lm	87lm
Lm/W 14W	91lm	84lm
CRI	Ra 80	
CCT	4000K	3000K
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 25°C	

Code	Lamp	Description
AALED1/BV/CCT	LED	7W - Cool White/Warm White - Black Base, Visiluxe Cover
AALED1/WV/CCT	LED	7W - Cool White/Warm White - White Base, Visiluxe Cover
AALED2/BV/CCT	LED	14W - Cool White/Warm White - Black Base, Visiluxe Cover
AALED2/WV/CCT	LED	14W - Cool White/Warm White - White Base, Visiluxe Cover
Options /PC		Electronic Photocell
/M3		Emergency (14W only)
/MWS		Integral Microwave Sensor (14W only)



# Delta LED CCT

Supplied c/w Integral Driver and Trim Accessory

- All polycarbonate multi-purpose LED round bulkhead
- LED performance exceeds CFL equivalents
- Push fit feed-in, feed-out terminals for speed and ease of installation
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K
- Supplied c/w optional trim attachment which provides a more commercially aesthetic appearance
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours



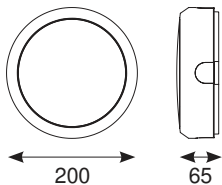
ADLED1/BV/CCT



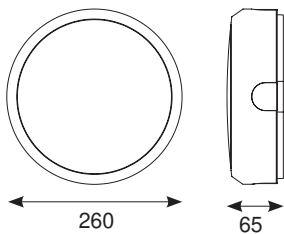
ADLED1/WV/CCT  
(Fitted with Trim Attachment)



ADLED2/BV/CCT  
(Fitted with Louvred Bezel Trim)



ADLED1/CCT



ADLED2/CCT

### LED Information

Total (Watts)	6W / 14W	
Lumens Delivered	4000K	3000K
6W	670lm	628lm
14W	1271lm	1190lm
Lm/W 6W	112lm	105lm
Lm/W 14W	91lm	85lm
CRI	Ra 80	
CCT	4000K	3000K
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 25°C	

Code Lamp Description

<b>ADLED1/BV/CCT</b>	LED	6W - Cool White/Warm White - Black Base, Visiluxe Cover
<b>ADLED1/WV/CCT</b>	LED	6W - Cool White/Warm White - White Base, Visiluxe Cover

<b>ADLED2/BV/CCT</b>	LED	14W - Cool White/Warm White - Black Base, Visiluxe Cover
<b>ADLED2/WV/CCT</b>	LED	14W - Cool White/Warm White - White Base, Visiluxe Cover

<b>Options</b>	<b>/PC</b>	Electronic Photocell
	<b>/M3</b>	Emergency (14W only)
	<b>/MWS</b>	Integral Microwave Sensor (14W only)

<b>Accessories</b>	<b>ADLED2/BZ/EYE/B</b>	Black Eyelid Bezel Trim (14W Only)
	<b>ADLED2/BZ/EYE/W</b>	White Eyelid Bezel Trim (14W Only)
	<b>ADLED2/BZ/GRILL/B</b>	Black Louvred Bezel Trim (14W Only)
	<b>ADLED2/BZ/GRILL/W</b>	White Louvred Bezel Trim (14W Only)





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Northwich, UK

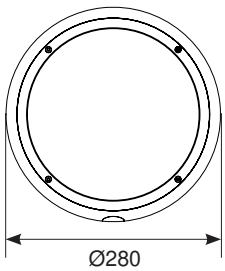


# Mini Vision 3 LED

Supplied c/w Integral Driver and 3 Trim Designs



- IP65 polycarbonate LED luminaire for external applications
- Each fitting supplied with plain, louvred eyelid and plain eyelid covers
- Exceeds performance of 28W TC-DD
- LED lifespan L70 36,000 hours
- Non-dimmable



AVIMLED/GR



AVIMLED/SG - Fitted with Louvred Eyelid



AVIMLED/W - Fitted with Plain Eyelid

### LED Information

Total (Watts)	9W
Lumens Delivered	797lm
Lm/W	89lm*
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C

\* Please note that Lm/W rating reduces for eyelid versions



	Code	Lamp	Description
<b>Standard</b>	AVIMLED/GR	LED	9W - Graphite
	AVIMLED/SG	LED	9W - Silver Grey
	AVIMLED/W	LED	9W - White

<b>Option</b>	/PC	Electronic Photocell
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# Vision 3 CCT LED

Supplied c/w Integral Driver and 3 Trim Designs

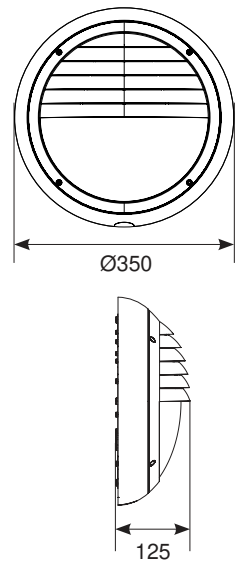


Fitted with Plain Eyelid

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Fitted with Louvred Eyelid



### LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	1420lm
Warm White	1324lm
Lm/W Cool White	84lm*
Lm/W Warm White	83lm*
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

\* Please note that Lm/W rating reduces for eyelid versions

	Code	Lamp	Description
<b>Standard</b>	<b>AVILED/CCT/GR</b>	LED	17W - Graphite - Cool White/Warm White
	<b>AVILED/CCT/SG</b>	LED	17W - Silver Grey - Cool White/Warm White
	<b>AVILED/CCT/W</b>	LED	17W - White - Cool White/Warm White
<b>Options</b>	<b>/PC</b>		Electronic Photocell
	<b>/M3</b>		Emergency
	<b>/DD</b>		Digital Dimming (DD1/DD2/DD3/DD4)
	<b>/MWS</b>		Integral Microwave Sensor



# Vision 3 HP LED

Supplied c/w Integral Driver and 3 Trim Designs

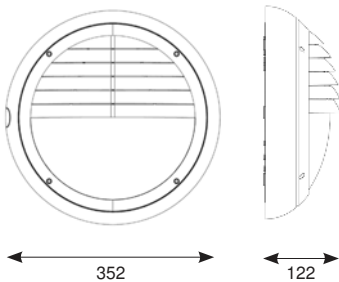
- IP65 polycarbonate 3-In-1 LED luminaire for external applications
- Each fitting supplied with plain, louvred eyelid and plain eyelid covers
- Exceeds performance of CFL equivalents
- Four conduit entry points
- Integral die-cast aluminium heatsink provides thermally managed high performance
- 31W LED lifespan L70 36,000 hours



Removable conduit entry cap for ease of installation



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Fitted with Solid Eyelid



Fitted with Louvred Eyelid

### LED Information

Total (Watts)	31W
Lumens Delivered	
31W	2426lm
Lm/W 31W	78lm*
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C

\* Please note that Lm/W rating reduces for eyelid versions

Code	Lamp	Description
<b>AVILED/HP/GR</b>	LED	31W - Graphite - Cool White
<b>AVILED/HP/SG</b>	LED	31W - Silver Grey - Cool White
<b>AVILED/HP/W</b>	LED	31W - White - Cool White

<b>Options</b>	<b>/PC</b>	Electronic Photocell
	<b>/M3</b>	Emergency
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)
	<b>/MWS</b>	Integral Microwave Sensor



# Helder LED Circular Bulkhead

Supplied c/w Integral Driver

330



AHELED/CB



AHELED/CW/PIR



AHELED/EB



Adjustable PIR allows control over the time delay and LUX setting.



Adjustable time between 10 seconds to 5 minute

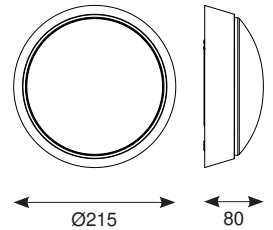


Adjustable LUX between 10 - 2000 LUX

- All polycarbonate circular bulkhead for external applications
- fast loop-in / loop-out connections
- Comparable performance to 28W TC-DD
- Body options of black or white
- Polycarbonate opal diffuser
- LED lifespan L70 25,000 hours
- Non-dimmable



Max 10 metres  
10 seconds to 5 minutes  
10 - 2000 LUX



	Code	Lamp	Description
Standard	AHELED/CB	LED	14W - Black - Cool White
	AHELED/CW	LED	14W - White - Cool White
PIR	AHELED/CB/PIR	LED	14W - Black - Cool White - PIR
	AHELED/CW/PIR	LED	14W - White - Cool White - PIR
Standard Eyelid	AHELED/EB	LED	14W - Black - Cool White
	AHELED/EW	LED	14W - White - Cool White
PIR Eyelid	AHELED/EB/PIR	LED	14W - Black - Cool White - PIR
	AHELED/EW/PIR	LED	14W - White - Cool White - PIR

## LED Information

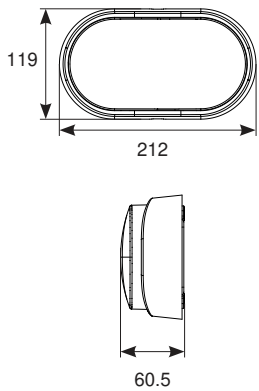
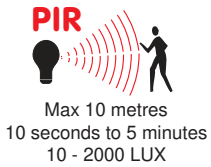
Total (Watts)	14W
Lumens Delivered	
Standard	972lm
Eyelid	529lm
PIR	1011lm
Lm/W	
Standard	70lm
Eyelid	38lm
PIR	72lm
CRI	Ra 80
CCT	4000K
Input	220-240V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



# Helder LED Oval Bulkhead

Supplied c/w Integral Driver

- All polycarbonate oval bulkhead for external applications
- fast loop-in / loop-out connections
- Comparable performance to 28W TC-DD
- Body options of black or white
- Polycarbonate opal diffuser
- LED lifespan L70 25,000 hours
- Non-dimmable



### LED Information

Total (Watts)	14W
Lumens Delivered	
Standard	887lm
PIR	925lm
Lm/W	
Standard	63lm
PIR	66lm
CRI	Ra 80
CCT	4000K
Input	220-240V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



AHELED/OW/PIR



AHELED/O/B

	Code	Lamp	Description
<b>Standard</b>	<b>AHELED/OB</b>	LED	14W - Black - Cool White - Oval
	<b>AHELED/OW</b>	LED	14W - White - Cool White - Oval
<b>PIR</b>	<b>AHELED/OB/PIR</b>	LED	14W - Black - Cool White - PIR - Oval
	<b>AHELED/OW/PIR</b>	LED	14W - White - Cool White - PIR - Oval



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# Sorrento 2 LED CCT

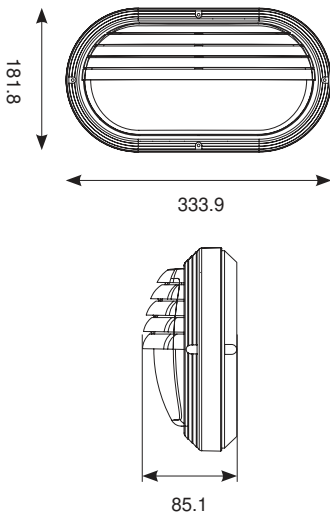
Supplied c/w Integral Driver, Plain Cover and Eyelid Cover



- Shallow depth IP65 polycarbonate 2-In-1 LED bulkhead for external applications
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K
- Supplied with both plain and louvred eyelid covers
- Exceeds performance of 18W PLC
- LED lifespan L70 56,000 hours
- Non-dimmable



ASR2LED/W/CCT  
(Plain Cover)



ASR2LED/B/CCT  
(Plain Cover)



ASR2LED/B/CCT  
(Louvred Eyelid Cover)



ASR2LED/W/CCT  
(Louvred Eyelid Cover)

### LED Information

Total (Watts)	8W
Lumens Delivered	
Cool White	721lm
Warm White	662lm
Lm/W	
Cool White	90lm
Warm White	83lm
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-0°C to 25°C

Code	Lamp	Description
ASR2LED/B/CCT	LED	8W - Cool White/Warm White - Black
ASR2LED/W/CCT	LED	8W - Cool White/Warm White - White



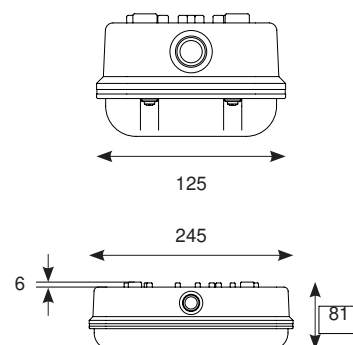
# Sleek LED Polycarbonate Bulkhead

Supplied c/w Integral Driver

334



- All polycarbonate multi-purpose bulkhead
- Exceeds performance of 9W PL
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours
- Non-dimmable



Code	Lamp	Description
<b>ASBLED</b>	LED	6W - Cool White

Options		
/PC		Electronic Photocell
/MWS		Integral Microwave Sensor

## LED Information

Total (Watts)	6W
Lumens Delivered	440lm
Lm/W	73lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C





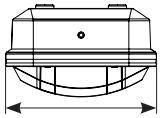
# Sleek LED 110V Polycarbonate Bulkhead

Supplied c/w Integral Driver

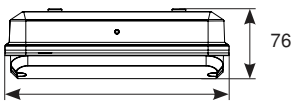


335

- All polycarbonate multi-purpose bulkhead
- Exceeds performance of 9W PL
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Suitable for all types of site lighting
- Instant light output and unlimited switching
- Red diffuser accessory available for applications that require warning indication luminaires
- LED lifespan L70 56,000 hours
- Non-dimmable



124



244

76

## LED Information

Total (Watts)	5W
Lumens Delivered	424lm
Lm/W	85lm
CRI	Ra 80
CCT	4000K
Input	110V
Hertz	50Hz
Operating Temp	-10°C to 40°C



Sleek 110V fitted with Red polycarbonate Lens accessory

	Code	Lamp	Description
	<b>ASBLED/110V</b>	LED	5W - Yellow Base
<b>Options</b>	/PC		Electronic Photocell
	/MWS		Integral Microwave Sensor
<b>Accessory</b>	<b>ASBLED/DIFF/RED</b>		Red Polycarbonate Lens

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# E27 Aluminium Bulkhead

Supplied Less Lamp

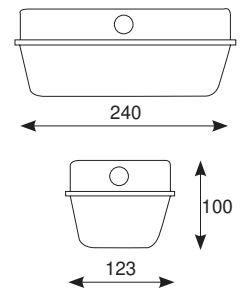


A100PC



A100GC

- Aluminium alloy body to prevent corrosion
- Option of vandal resistant polycarbonate or glass lens



Code	Lamp	Description
A100PC	E27	100W - Polycarbonate Lens
A100GC	E27	100W - Glass Lens

Options	/PC	Electronic Photocell
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**E27 Options**

100W	23W	20W
130	53	53
130	130	130

Maximum size and wattage



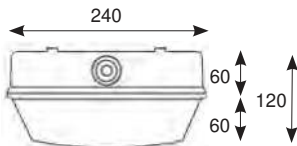
# E27 Polycarbonate Bulkhead

Supplied Less Lamp



337

- Vandal resistant all polycarbonate construction



E27 Options		
100 W	23W	20W
	53	53
130	130	130
Maximum size and wattage		



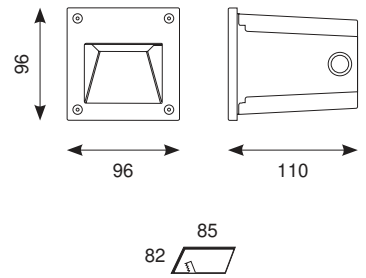
Code	Lamp	Description
<b>A100POLY</b>	E27	100W - Black Base
<b>Options</b>	<b>/PC</b>	Electronic Photocell

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# Camini LED

Supplied c/w Integral Driver



- Compact low level square LED pathway light with downward light spill
- Die-cast aluminium construction with graphite paint finish
- Supplied c/w plastic installation box and pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable

### LED Information

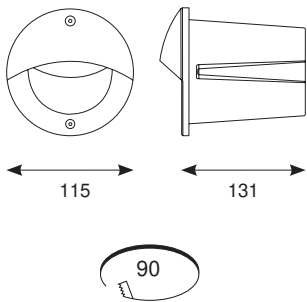
Total (Watts)	3W
Lumens Delivered	79lm
Lm/W	22lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
ACSQLEDWL	LED	3W - Cool White





- Compact low level circular LED pathway light with downward light spill
- Die-cast aluminium construction with graphite paint finish
- Supplied c/w plastic installation box and pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	3W
Lumens Delivered	178lm
Lm/W	45lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



Code	Lamp	Description
APCLEDWL	LED	3W - Cool White



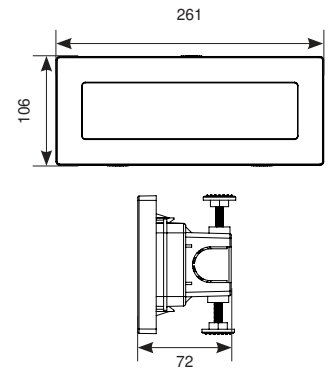
# Mattone LED Uni-Bricklight CCT

Supplied c/w Integral Driver

340



- Universal polycarbonate LED bricklight
- Unique adjustable feet allows for installation into multiple brick apertures
- Polycarbonate construction ideal for coastal applications
- Push fit loop-in loop-out terminals for ease of installation
- Pre-wired with 600mm of rubber insulated cable
- Supplied c/w installation housing for additional protection and ease of installation
- CCT selectable between 3000K and 4000K
- Non-dimmable

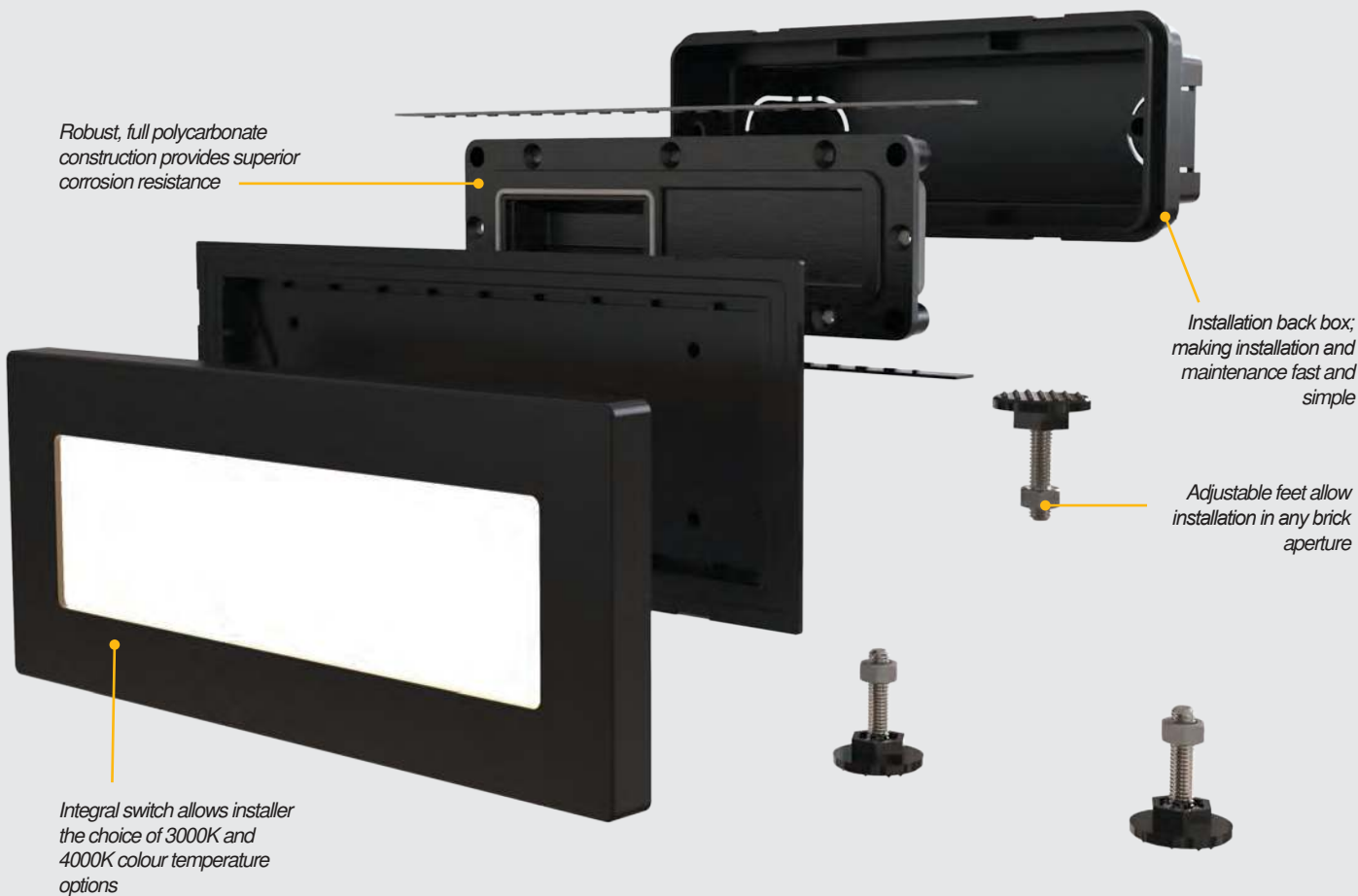


## LED Information

Total (Watts)	2W
Lumens Delivered	
Cool White	101lm
Warm White	85lm
Lm/W	
Cool White	51lm
Warm White	43lm
Beam Angle	105°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
AMATBLED	LED	2W - Cool White/Warm White





Robust, full polycarbonate construction provides superior corrosion resistance

Installation back box; making installation and maintenance fast and simple

Adjustable feet allow installation in any brick aperture

Integral switch allows installer the choice of 3000K and 4000K colour temperature options



## Adjustable Feet Design

The unique adjustable feet design allows installation into a range of brick apertures, ranging from 115mm in height to 85mm, ensuring suitability and a precise fit for many brick apertures. The feet allow the product to maintain a fixed position during installation, ensuring it is fast and simple.



## Plug and Play Design

The plug and play design allows the front plate to be temporarily disconnected during installation, allowing the installer easier access to adjust the feet and fix the housing in position before cementing into the wall construction. The installer will simply re-connect the front plate to the housing using the plug and play connector.



**Project - Private Residential**  
Liverpool, UK



# Libretto LED Bricklight

Supplied c/w Integral Driver



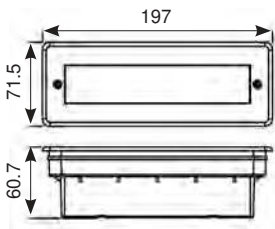
- Stainless steel front cover with clear polycarbonate front lens and recessed housing
- Integral driver with loop-in, loop-out connections
- LED lifespan L70 40,000 hours
- Non-dimmable



ALIBLED/BLU



ALIBLED/WHI



### LED Information

Total (Watts)	2W
Lumens Delivered	
Daylight	126lm
Blue	48lm
Lm/W	63lm
Lm/W Blue	24lm
CRI	Ra 65
CCT	6000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 25°C



Code	Lamp	Description
ALIBLED/WHI	LED	2W - Daylight
ALIBLED/BLU	LED	2W - Blue

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# Fidenza LED Bricklight

Supplied c/w Integral Driver

344



AFBLLED

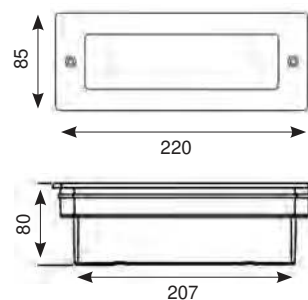


AFBL/GRILL Cover Fitted



AFBL/EYE Cover Fitted

- Die-cast aluminium housing and front cover
- Toughened front frosted glass
- Metal back box with cable entries for ease of installation
- Optional grill and hood front covers
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	2.2W
Lumens Delivered	145lm
Lm/W	66lm
CRI	Ra 65
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
AFBLLED	LED	2.2W - Cool White

<b>Accessories AFBL/GRILL</b>	Front Grill Cover
<b>AFBL/EYE</b>	Front Eyelid Cover





**Project - Private Residential**  
Warrington, UK

# LED Inox Stainless Steel Bricklight

Supplied c/w Integral Driver

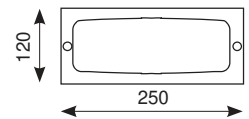


346

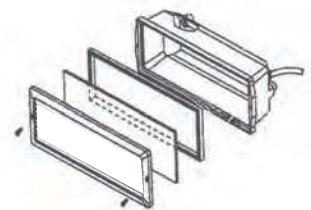
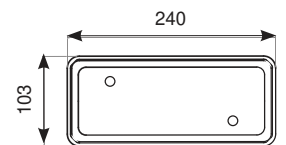
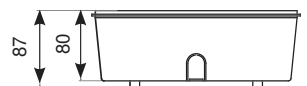


Stainless Steel **AISI 316L**

- Die-cast aluminium bricklight with AISI316L stainless steel front cover
- Comparable performance to 18W PLC
- Tempered and frosted 4mm glass diffuser
- Supplied c/w polyethelyne back box for recessing
- LED lifespan L70 50,000 hours
- Non-dimmable



Box Dimensions



### LED Information

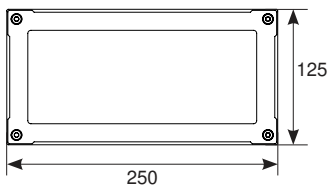
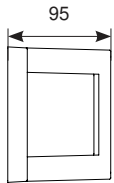
Total (Watts)	12W
Lumens Delivered	270lm
Lm/W	23lm
CRI	Ra 70
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-25°C to 35°C

Code	Lamp	Description
ABLFLED/SS	LED	12W - Warm White





- Modern low level surface brick light/wall light
- General illumination ideal for pathway/walkway illumination
- Die-cast aluminium housing graphite powder coated anodized finish
- Tempered frosted glass
- LED lifespan L70 30,000 hours
- Non-dimmable



Wall Mounted



Low Level Mounted

**LED Information**

Total (Watts)	7W
Lumens Delivered	302lm
Lm/W	43lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 50°C



Code	Lamp	Description
AVOLEDSWL	LED	7W - Cool White





**Project - Private Residential**  
Congleton, UK

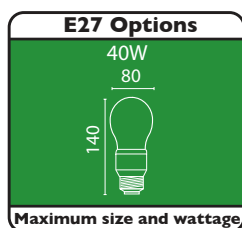
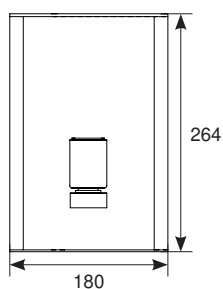
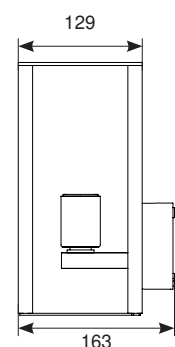
# Calore E27

Supplied Less Lamp

349



- Ultra modern exterior wall light
- Die-cast frame with tempered glass enclosure
- Textured powder coated anthracite finish
- Ideal for use with LED Filament lamps



Code	Lamp	Description
ACAL/E27	E27	40W - Sandy Anthracite

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# Latina LED Half Lantern

Supplied c/w Integral Driver

350

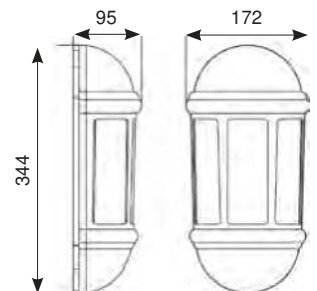


ALHLLLED/BL



ALHLLLED/PIR/W

- Contemporary IP65 half lantern and resistant to corrosion
- Textured polycarbonate finish and tinted lens
- LED light bar for uniform light output
- PIR option for convenience and security. Incorporates manual override option
- Colour matching PIR lens cover ensures discreet appearance
- LED lifespan L70 56,000 hours
- Non-dimmable



Max 8 metres  
5 seconds to 8 minutes  
2 - 2000 LUX - Photocell  
Off

## LED Information

Total (Watts)	8W
Lumens Delivered	400lm
Lm/W	53lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

	Code	Lamp	Description
<b>Standard</b>	ALHLLLED/BL	LED	8W - Warm White - Black
	ALHLLLED/WH	LED	8W - Warm White - White
<b>Photocell</b>	ALHLLLED/PC/BL	LED	8W Photocell - Warm White - Black
	ALHLLLED/PC/WH	LED	8W Photocell - Warm White - White
<b>PIR</b>	ALHLLLED/PIR/BL	LED	8W PIR - Warm White - Black
	ALHLLLED/PIR/WH	LED	8W PIR - Warm White - White





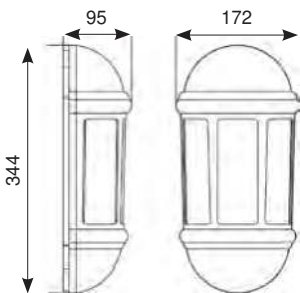
# Latina Polycarbonate Half Lantern

Supplied Less Lamp



351

- Contemporary IP65 half lantern and resistant to corrosion
- Textured polycarbonate finish and tinted lens
- PIR option for convenience and security. Incorporates manual override option
- Colour matching PIR lens cover ensures discreet appearance



Max 8 metres  
5 seconds to 8 minutes  
2 - 2000 LUX - Photocell  
Off



ALHL/BL



ALHL/PIR/WH

	Code	Lamp	Description
Standard	ALHL/BL	E27	42W - Black
	ALHL/WH	E27	42W - White
Photocell	ALHL/PC/BL	E27	42W Photocell - Black
	ALHL/PC/WH	E27	42W Photocell - White
PIR	ALHL/PIR/BL	E27	42W PIR - Black
	ALHL/PIR/WH	E27	42W PIR - White

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# Latina LED Wall Lantern

Supplied c/w Integral Driver



ALWLLED/WH



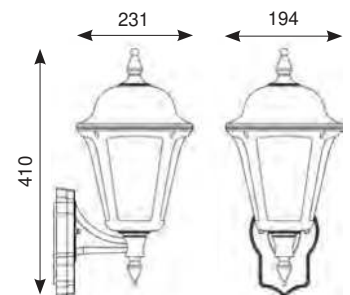
ALWLLED/PIR/BL



ALWL/CBW

ALWL/CBB

- Contemporary IP65 polycarbonate lantern range and resistant to corrosion
- LED light bar for uniform light output
- Unique design provides installer with option of top arm or bottom arm mounting, without the need of additional wiring (PIR version bottom arm mounting only)
- Textured polycarbonate finish and tinted lens
- PIR option for convenience and security. Incorporates manual override option
- Colour matching PIR lens ensures discreet appearance
- LED lifespan L70 56,000 hours
- Non-dimmable



Max 8 metres  
5 seconds to 8 minutes  
2 - 2000 LUX - Photocell  
Off

### LED Information

Total (Watts)	8W
Lumens Delivered	546lm
Lm/W	68lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

	Code	Lamp	Description
<b>Standard</b>	ALWLLED/BL	LED	8W - Warm White - Black
	ALWLLED/WH	LED	8W - Warm White - White
<b>PIR</b>	ALWLLED/PIR/BL	LED	8W PIR - Warm White - Black
	ALWLLED/PIR/WH	LED	8W PIR - Warm White - White

<b>Accessories</b>	ALWL/CBB	Wall Lantern Corner Bracket Black
	ALWL/CBW	Wall Lantern Corner Bracket White



# Latina Polycarbonate Wall Lantern

Supplied Less Lamp

- Contemporary IP65 polycarbonate lantern range and resistant to corrosion
- Unique design provides installer with option of top arm or bottom arm mounting, without the need of additional wiring (PIR version bottom arm mounting only)
- Textured polycarbonate finish and tinted lens
- PIR option for convenience and security. Incorporates manual override option
- Colour matching PIR lens ensures discreet appearance



353



ALWL/WH



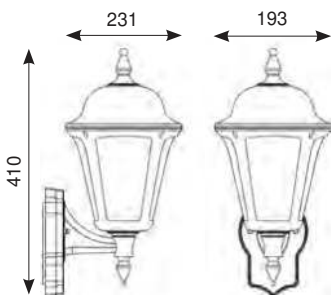
ALWL/PIR/BL



ALWL/CBB



ALWL/CBW



**PIR**



Max 8 metres  
5 seconds to 8 minutes  
2 - 2000 LUX - Photocell  
Off



	Code	Lamp	Description
<b>Standard</b>	ALWL/BL	E27	42W - Black
	ALWL/WH	E27	42W - White
<b>PIR</b>	ALWL/PIR/BL	E27	42W PIR - Black
	ALWL/PIR/WH	E27	42W PIR - White
<b>Accessories</b>	ALWL/CBB		Wall Lantern Corner Bracket Black
	ALWL/CBW		Wall Lantern Corner Bracket White



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# Roma

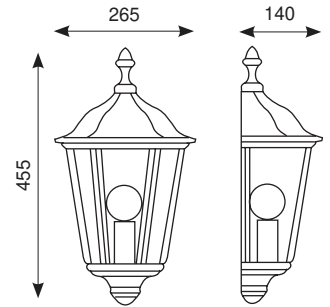
Supplied Less Lamp



354



- Die-cast aluminium half-lantern in black
- Clear polycarbonate diffuser for E27 versions



E27 Options		
100W	23W	20W
	53	53
	165	165
Maximum size and wattage		

Code	Lamp	Description
ARE27/HL/BL	E27	100W - Black





# Lampara

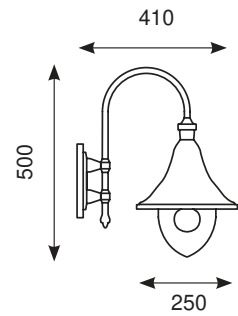
Supplied Less Lamp



356



- Die-cast aluminium construction with transparent polycarbonate diffuser
- Black paint finish



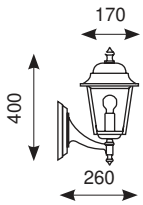
E27 Options		
100 W	23W	20W
	53	53
165	165	165
Maximum size and wattage		

Code	Lamp	Description
ALE27/WL/BL	E27	100W - Black

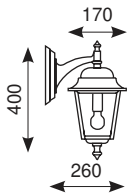




- Die-cast aluminium four sided lantern
- Black paint finish
- Smoked glass diffuser
- Full size post lanterns incorporate hinged door for easy wiring access

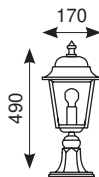


ANE27/WLBA/BL



ANE27/WLTA/B

ANE27/PIL/BL



ANE27/PIL/BL



ANE27/WLBA/BL



E27 Options		
60W to 100W	23W 53	20W 53
130	130	130

Maximum size and wattage



	Code	Lamp	Description
Wall Lantern	ANE27/WLTA/BL	E27	60W Top Arm - Black
	ANE27/WLBA/BL	E27	60W Bottom Arm - Black
Pillar Lantern	ANE27/PIL/BL	E27	60W - Black

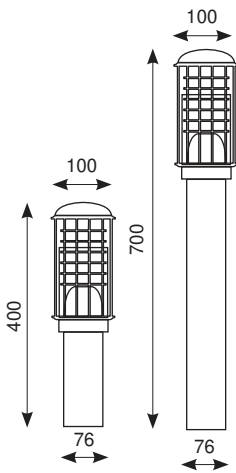


**Project - Private Residential**  
Bangor, Ireland





- High Grade AISI 316L stainless steel bollard
- Slim profile provides additional suitability for patio lighting
- Suitable for commercial and domestic applications






AUE27040/SS



AUE27070/SS



E27 Options		
60W	23W	20W
		
130	53	53
130		

Maximum size and wattage



Code	Lamp	Description
AUE27040/SS	E27	60W 400mm
AUE27070/SS	E27	60W 700mm

# Urano Inox Country

Supplied Less Lamp



360

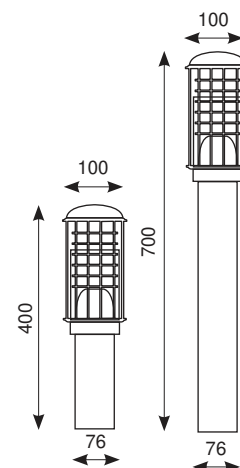


AUE27040/WE



AUE27070/WE

- Stunning combination of country wood effect with stainless steel head
- Slim profile provides additional suitability for patio lighting
- Decorative AISI 316L stainless steel head
- Suitable for commercial and domestic applications



Code	Lamp	Description
AUE27040/WE	E27	60W 400mm
AUE27070/WE	E27	60W 700mm

E27 Options		
60W	23W	20W
	53	53
130	130	130
Maximum size and wattage		





**Project - Private Residential**  
County Antrim, Ireland

# Pavia Solar LED

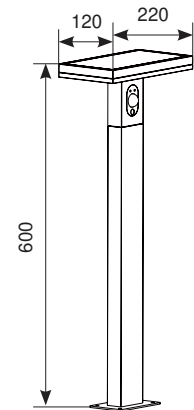
Supplied c/w Integral Driver



- Ultra modern die-cast solar powered aluminium LED bollard
- PIR motion sensor as standard
- Automatic day/night mode switching
- 2 operation modes:-  
 1) 15% output after sunset, motion detected 100% output, no motion 15% for 20 hours  
 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours



Matching Pavia Wall Light see p279



6 to 10 metres  
 1 minute  
 10 to 45 LUX

### LED Information

Lumens Delivered	230lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C

Code	Lamp	Description
APAVLEDB/60	LED	Cool White

**Accessories** ASBP/17 7.4V 1500mAh Replacement Li-ION Battery



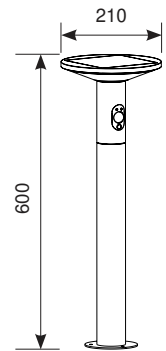
**Project - Private Residence**  
Southport, UK

# Talana Solar LED

Supplied c/w Integral Driver



- Ultra modern die-cast solar powered aluminium LED bollard
- PIR motion sensor as standard
- 2 operation modes:-
  - 1) 11% output after sunset, motion detected 100% output, no motion 11% for 20 hours
  - 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours



Code	Lamp	Description
<b>ATASLEDB/60</b>	LED	Cool White
<b>Accessories ASBP/17</b>	7.4V 1500mAh Replacement Li-ION Battery	

### LED Information

Lumens Delivered	210lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C





***Project - Private Residential***  
*Belfast, UK*

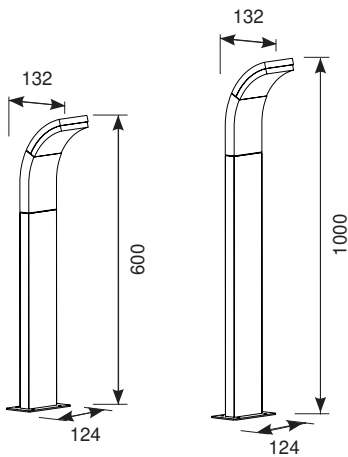


***Project - Private Residential***  
*Chester, UK*





- Contemporary die-cast aluminium LED bollard
- Graphite textured powder coat paint finish
- Flange mounted base for surface fixing
- LED lifespan L70 36,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	6.5W
Lumens Delivered	366lm
Lm/W	52lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



ASELEDB/060

ASELEDB/100

Code	Lamp	Description
ASELEDB/060	LED	6.5W - Cool White 600mm
ASELEDB/100	LED	6.5W - Cool White 1000mm



# Arco LED

Supplied c/w Integral Driver

368



Light distribution from head of bollard

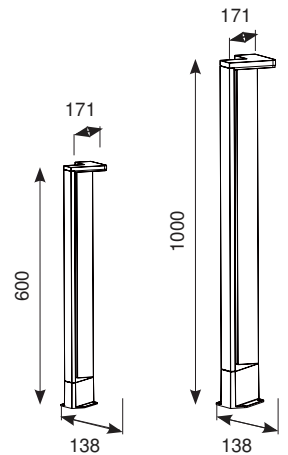


AARLEDB/060



AARLEDB/100

- Ultra modern LED bollard
- Graphite textured powder coated paint finish
- Flange mounted base for surface mounting
- LED lifespan L70 36,000 hours
- Non-dimmable



### LED Information

Total (Watts)	11W
Lumens Delivered	643lm
Lm/W	58lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AARLEDB/060	LED	11W - Cool White 600mm
AARLEDB/100	LED	11W - Cool White 1000mm



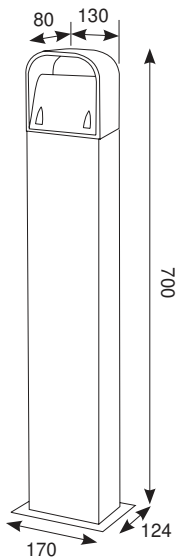


***Project - Private Residential***  
*York, UK*



**Project - Private Residential**  
Surrey, UK

- Modern bollard with die-cast aluminium body
- Innovative bi-directional light distribution
- Equivalent performance to 26W PLC
- Powder coated anodized graphite paint finish for enhanced durability
- Flange mounted base for surface fixing
- IP66 loop-in, loop-out connection joint for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	11W
Lumens Delivered	
Cool White	202lm
Warm White	578lm
Lm/W	
Cool White	18lm
Warm White	53lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
<b>AGLEDB/700</b>	LED	11W - Cool White 700mm
<b>AGLEDB/700/WW</b>	LED	11W - Warm White 700mm



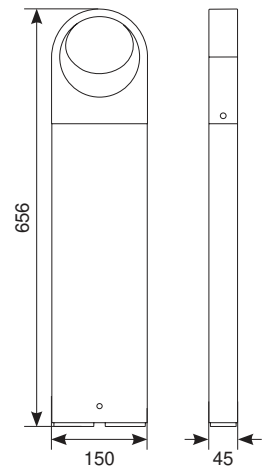
# Brock LED Bollard

Supplied c/w Integral Driver and Root mounting kit



Supplied c/w Root  
Mounting kit

- Modern bi-directional bollard providing vivid angled light distribution
- Die-cast aluminium body with a graphite powder coated anodized paint finish for enhanced durability
- Supplied c/w root mounting kit
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	7.7W
Lumens Delivered	
Cool White	452lm
Warm White	447lm
Lm/W	
Cool White	57lm
Warm White	56lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
<b>ABRLEDB/650/CW</b>	LED	7.7W - Cool White 650mm
<b>ABRLEDB/650/WW</b>	LED	7.7W - Warm White 650mm





# Duet LED

Supplied c/w Integral Driver



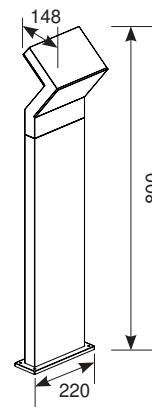
Light distribution from the rear of the bollard



Light distribution from the front of the bollard



- Ultra modern bollard with die-cast aluminium body
- Powder coated anodized graphite paint finish for enhanced durability
- Flange mounted base for surface fixing
- LED lifespan L70 36,000 hours
- Non-dimmable



### LED Information

Total (Watts)	17W
Lumens Delivered	1536lm
Lm/W	90lm
CRI	Ra 80
CCT	4000K
Input	100V-240V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
ADULEDB/080	LED	17W - Cool White 800mm







**Project - Private Residential**  
Bath, UK



**Project - Public Walkway**  
Essex, UK

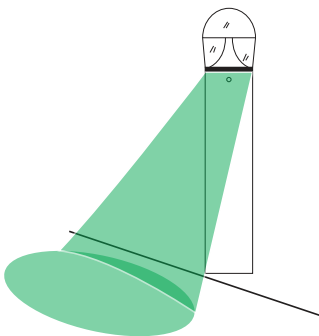
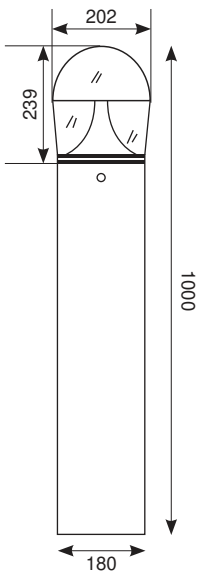
# Taurus LED

Supplied c/w Integral Driver



377

- Robust die-cast aluminium bollard with a textured graphite finish
- Die-cast aluminium head with polycarbonate lens
- Comparable performance to 70W HQI
- Powered by Philips
- Integral emergency option
- Supplied c/w root mounting kit
- LED lifespan L70 50,000 hours
- Non-dimmable



Emergency Operation

### LED Information

Total (Watts)	26W
Lumens Delivered	1379lm
Lm/W	53lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 50°C



Code	Lamp	Description
<b>ATALEDB/1000</b>	LED	26W - Cool White 1000mm
<b>ATALEDB/1000/PIR</b>	LED	26W - Cool White 1000mm - PIR

Option	/M3	Emergency
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 Belfast: +44 (0) 2890 773750



# Leo CCT LED Polycarbonate Bollard

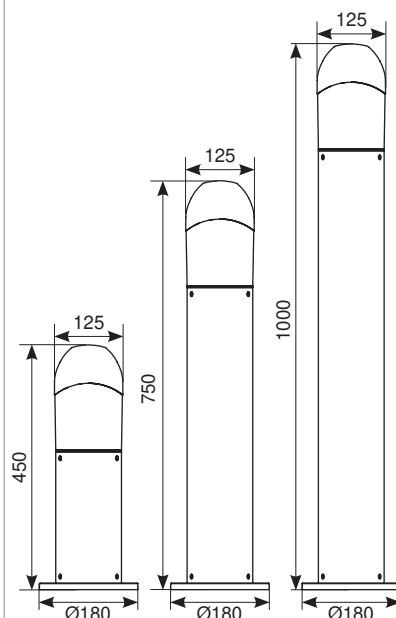
Supplied c/w Integral Driver

378



Powered by  
**TRIDONIC**  
enlightening your ideas

- Modern styled bollard with polycarbonate construction
- White reflector with clear polycarbonate diffuser
- Polycarbonate construction is ideal for coastal applications
- Suitable for domestic and commercial applications
- Supplied c/w root mounting kit, can be surface mounted with rawbolts
- CCT selectable between 3000K and 4000K
- LED lifespan L70 61,000 hours
- Non-dimmable



ALEOLED/CCT/045/GR

ALEOLED/CCT/075/GR

ALEOLED/CCT/100/GR

### LED Information

Total (Watts)	8W	13W	13W
Lumens Delivered	4000K	3000K	
8W	592lm	533lm	
13W	922lm	880lm	
13W	922lm	880lm	
Lm/W			
8W	74lm	67lm	
13W	77lm	73lm	
13W	77lm	73lm	
CRI	Ra 80		
CCT	3000K		4000K
Input	230V		
Hertz	50/60Hz		
Operating Temp	-10°C to 40°C		

Code	Lamp	Description
ALEOLED/CCT/045/GR	LED	8W - Warm White/Cool White 450mm
ALEOLED/CCT/075/GR	LED	13W - Warm White/Cool White 750mm
ALEOLED/CCT/100/GR	LED	13W - Warm White/Cool White 1000mm





# Monza

Supplied Less Lamp



380



AME27045/BL

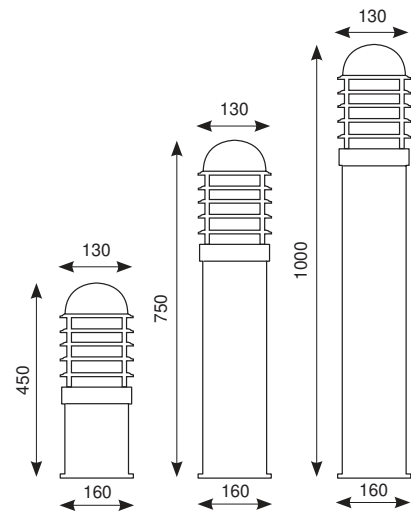


AME27075/BL



AME27100/BL

- Die-cast extruded aluminium bollard with external louvred head
- Textured black powder coat finish
- Suitable for commercial and domestic applications



Code	Lamp	Description
AME27045/BL	E27	100W 450mm
AME27075/BL	E27	100W 750mm
AME27100/BL	E27	100W 1000mm

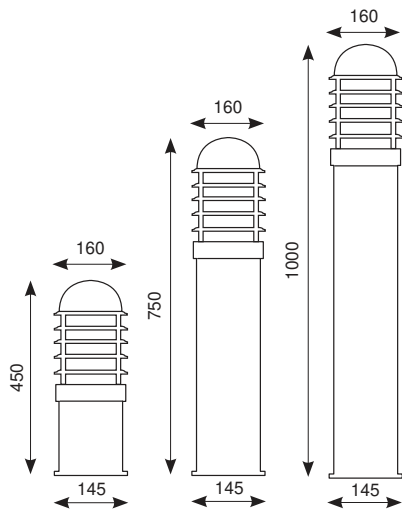
**Accessories** ARMK3 Root Mounting Kit

E27 Options		
100 W	23W	20W
	53	53
	165	165
Maximum size and wattage		





- High Grade AISI 316L stainless steel bollard
- External louvred head and opal polycarbonate diffuser
- Suitable for commercial and domestic applications



AME27045/SS

AME27075/SS

AME27100/SS



E27 Options		
75W	23W	20W
165	53	53
165	53	53

Maximum size and wattage

Code	Lamp	Description
AME27045/SS	E27	75W 450mm
AME27075/SS	E27	75W 750mm
AME27100/SS	E27	75W 1000mm

Accessories ARMK3 Root Mounting Kit



# Aquila

Supplied Less Lamp



382



- Die-cast aluminium bollard with four pillars and opal polycarbonate diffuser
- Textured black powder coat finish
- Suitable for commercial and domestic applications



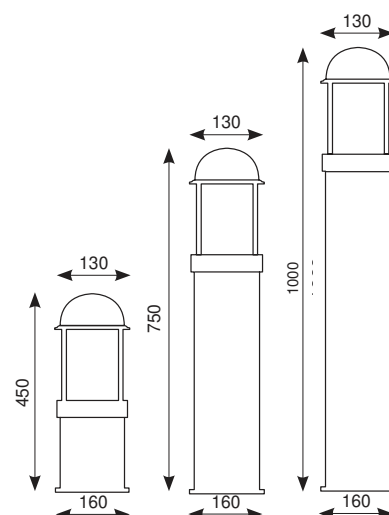
AAE27045/BL



AAE27075/BL



AAE27100/BL



Code	Lamp	Description
AAE27045/BL	E27	75W 450mm
AAE27075/BL	E27	75W 750mm
AAE27100/BL	E27	75W 1000mm

**Accessories** ARMK3 Root Mounting Kit

E27 Options		
100W	23W 53	20W 53
165	165	165

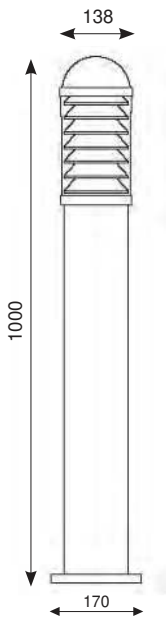
Maximum size and wattage







- Die-cast aluminium bollard with polycarbonate diffuser
- Internal stainless steel louvre
- Detachable head for easy access to lamp housing
- Suitable for surface mounting
- Supplied with root mounting kit



E27 Options		
100 W	23W	20W
	53	53
130	130	
Maximum size and wattage		



Code	Lamp	Description
ALIB/100E27	E27	100W 1000mm



# Orno LED Portable Lantern

Supplied c/w DC Adaptor

384

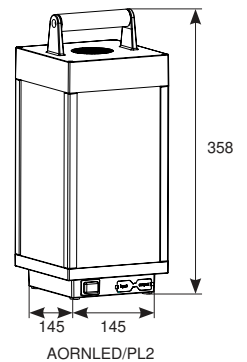
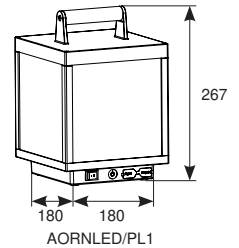


AORNLED/PL1  
White LED



AORNLED/PL2

- Modern portable lantern range suitable for domestic applications
- Anodised powder coated die-cast frame construction, c/w polycarbonate enclosure for enhanced durability
- Chargable USB battery power ensures no installation or maintenance is required
- Integrated bluetooth speaker allows pairing with smart device for audio playback (AORNLED/PL2 Only)
- A selection of light outputs can be selectable via an external touch pad (AORNLED/PL1 Only)
- USB 2.0 output allows a smartphone to be charged from the fitting
- Up to 6 hours of battery life
- LED lifespan L70 36,000 hours



## LED Information

Total (Watts)	5W
Lumens Delivered	353lm
Lm/W	71lm
CRI	Ra 80
CCT	4000K
Input	3.7VDC
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AORNLED/PL1	LED	5W - Small/Cool White
AORNLED/PL2	LED	6W - Large/Cool White





**Project - Private Residential**  
Congleton, UK

# Lazer AC LED Projector

Integrated AC LED Technology

386

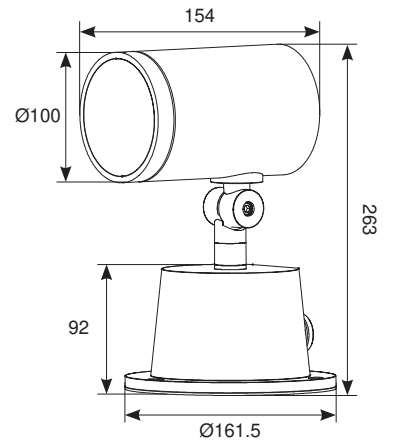


Cross Anti-Glare Accessory



Hood Accessory

- High performance LED projector light
- Push fit loop-in loop-out for ease of installation
- Integrated AC LED technology
- Die-cast aluminium construction with textured graphite paint finish
- Cross anti-glare and hood accessory available
- LED lifespan L70 30,000 hours
- Non-dimmable



### LED Information

Total (Watts)	30W
Lumens Delivered	2581lm
Lm/W	86lm
Beam Angle	28°
CRI	Ra 80
CCT	3000K
Input	220-240V
Hertz	50Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
ALAZPLED2	LED	30W - Warm White
<b>Accessories ALAZPLED/C</b>		Cross Anti-Glare Accessory
<b>ALAZPLED/H</b>		Hood Accessory



# Rondo HP AC LED Surface/Spike Light

Integrated AC LED Technology



- High performance LED feature light
- Suitable for surface or spike mounting (spike accessory included)
- Integrated AC LED technology
- 60° beam angle
- Die-cast aluminium construction with textured graphite paint finish
- Pre-wired with 2 metres of H07RN-F cable
- LED lifespan L70 30,000 hours
- Non-dimmable



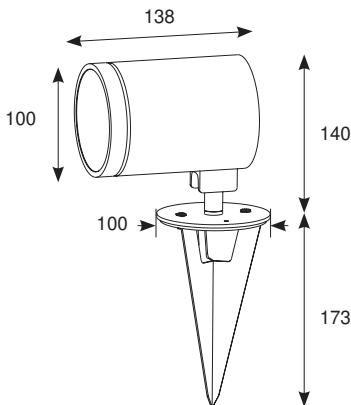
Wall Mounting



Spike Mounting



Surface Mounting



### LED Information

Total (Watts)	20W
Lumens Delivered	1200lm
Lm/W	60lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
AROLEDSSS	LED	20W - Cool White





**Project - Southport Flower Show**  
Southport, UK

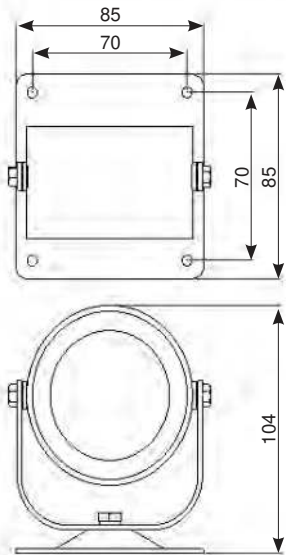
# Meteor LED Submersible

Supplied Less Driver



389

- Surface or submersible spot for external applications
- 316L stainless steel construction housing with adjustable head
- Pre-wired with 3 metres of rubber insulated cable
- Submersible to a depth of up to 3 metres
- LED lifespan L70 50,000 hours



## LED Information

Total (Watts)	6W
Lumens Delivered	547lm
Lm/W	91lm
CRI	Ra 75
CCT	4000K
Input	350mA
Operating Temp	-20°C to 40°C



	Code	Lamp	Description
	<b>AMETLED</b>	LED	6W - Cool White
<b>Accessories</b>	<b>AD9W/350</b>	9W 350mA LED Driver	
	<b>ADK20W/350</b>	20W 350mA LED Driver	
	<b>AMCD25W</b>	0-15W Multicurrent Driver	
	<b>AMCD50W</b>	0-20W Multicurrent Driver	

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Belfast: +44 (0) 2890 773750



# Garda GU10 LED

Supplied Less Lamp

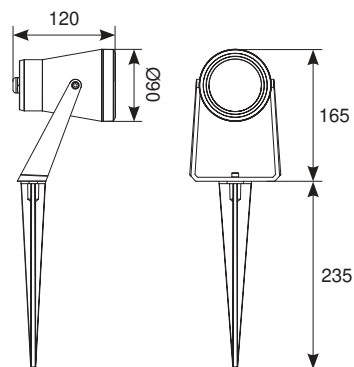
390



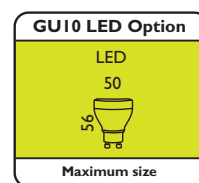
Spike Fixing

Wall Mounting

- Dual purpose garden spotlight supplied with wall mounting bracket and spike
- Polycarbonate construction suitable for coastal areas
- Pre-wired with 2 metres of rubber insulated cable
- Suitable for GU10 LED lamps only as detailed



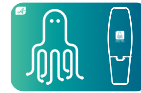
Code	Lamp	Description
AGAR/GU10	GU10	5W LED GU10





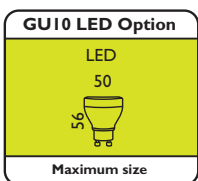
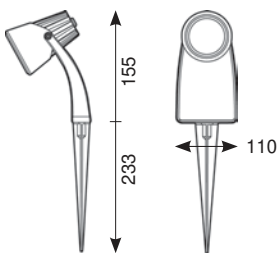
# Flora GU10 LED

Supplied Less Lamp



391

- Dual purpose garden spotlight supplied with wall mounting bracket and spike
- Polycarbonate construction suitable for coastal areas
- Manufactured from 100% recyclable materials
- Pre-wired with 2 metres of rubber insulated cable
- Suitable for GU10 LED lamps only as detailed



Spike Fixing

Wall Mounting

Code	Lamp	Description
<b>AFGS/GU10LED</b>	LED	5W LED GU10



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 Belfast: +44 (0) 2890 773750



# Subra LED Inground Uplight

Supplied Less Driver

392

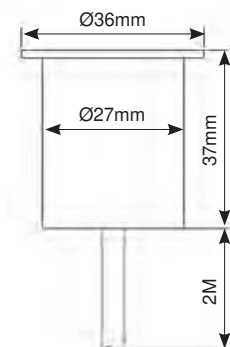


ASUWOLED/CW



ASUWOLED/WW

- Small recessed LED marker ground light for a variety of internal and external applications
- 316L stainless steel bezel and housing
- Pre-wired with 2 metres of rubber insulated cable
- Submersible to a depth of up to 2 metres
- LED lifespan L70 56,000 hours lifetime



## LED Information

Total (Watts)	1W
Lumens Delivered	
Cool White	35lm
Warm White	35lm
Lm/W Cool White	35lm
Lm/W Warm White	35lm
CRI Cool White	Ra 75
CRI Warm White	Ra 80
CCT Cool White	6000K
CCT Warm White	3000K
Input	12V/24V
Operating Temp	-20°C to 45°C

Code	Lamp	Description
ASUWOLED/CW	LED	1W - Cool White
ASUWOLED/WW	LED	1W - Warm White
<b>Accessories</b>		
ADK15W/24V	15W 24V LED Driver	
ADK60W/24V	60W 24V LED Driver	
AMCD25W	10 - 20W Multicurrent LED Driver	





**Project - Private Residential**  
Liverpool, UK

# Turlock LED Inground Uplight

Supplied c/w Integral Driver



ATURWOLED/70



ATURWOLED/70/WW



2-way Mini drive over cover

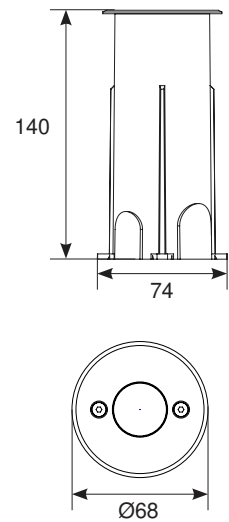


4-way Mini drive over cover

Code	Lamp	Description
<b>ATURWOLED/70</b>	LED	3W - Cool White
<b>ATURWOLED/70/WW</b>	LED	3W - Warm White

<b>Accessories</b>	<b>ATURWOLED/70/2</b>	2-Way Mini Drive Over Cover Accessory
	<b>ATURWOLED/70/4</b>	4-Way Mini Drive Over Cover Accessory

- Powerful compact LED inground uplight
- Exceeds performance of 50W Halogen
- Die-cast aluminium construction with 316L stainless steel top frame
- Static load test to 2000kg
- Supplied c/w installation housing for additional protection and ease of installation
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 50,000 hours



### LED Information

Total (Watts)	3W
Lumens Delivered	
Cool White	135lm
Warm White	124lm
Lm/W	
Cool White	45lm
Warm White	41lm
Beam Angle	26°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





***Project - Private Residential***  
*Abersoch, UK*

# Turlock LED Inground Uplight

Supplied c/w Integral Driver



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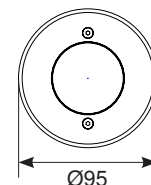
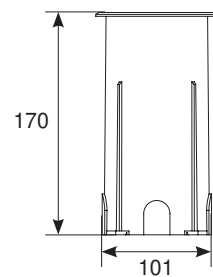


ATURWOLED/95



ATURWOLED/95/WW

- Powerful compact LED inground uplight
- Exceeds performance of 35W CDM-T
- Static load test to 2000kg
- Supplied c/w installation housing for additional protection and ease of installation
- Die-cast aluminium construction with 316L stainless steel top frame
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 50,000 hours



### LED Information

Total (Watts)	4W
Lumens Delivered	
Cool White	390lm
Warm White	301lm
Lm/W	
Cool White	97lm
Warm White	75lm
Beam Angle	21°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
ATURWOLED/95	LED	4W - Cool White
ATURWOLED/95/WW	LED	4W - Warm White



# Turlock LED Inground Uplight

Supplied c/w Integral Driver



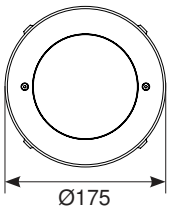
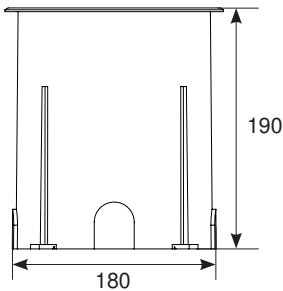
397

- High performance LED inground uplight
- Exceeds performance of 70W CDM-T
- Static load test to 2000kg
- Supplied c/w installation housing for additional protection and ease of installation
- Die-cast aluminium construction with 316L stainless steel top frame
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 50,000 hours

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ATURWOLED/175



## LED Information

Total (Watts)	8W
Lumens Delivered	
Cool White	884lm
Warm White	785lm
Lm/W	
Cool White	110lm
Warm White	98lm
Beam Angle	18°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C



ATURWOLED/175/WW

Code	Lamp	Description
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ATURWOLED/175	LED	8W - Cool White
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ATURWOLED/175/WW	LED	8W - Warm White
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# Turlock LED Inground Uplight

Supplied c/w Integral Driver



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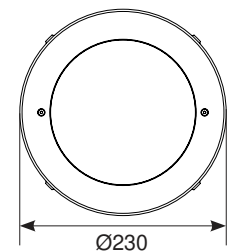
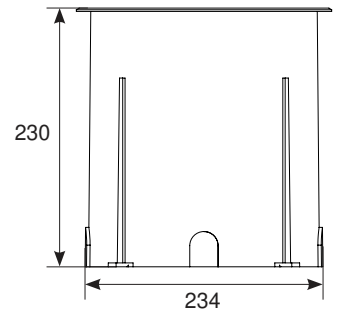


ATURWOLED/230



ATURWOLED/230/WW

- High performance inground uplight
- Exceeds performance of 70W CDM-T
- Static load test to 2000kg
- Supplied c/w installation housing for additional protection and ease of installation
- Die-cast aluminium construction with 316L stainless steel top frame
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 50,000 hours



### LED Information

Total (Watts)	19W
Lumens Delivered	
Cool White	2214lm
Warm White	2021lm
Lm/W	
Cool White	116lm
Warm White	106lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description
ATURWOLED/230	LED	19W - Cool White
ATURWOLED/230/WW	LED	19W - Warm White





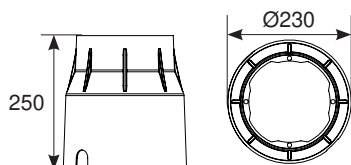
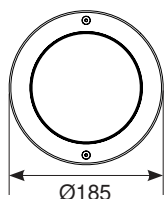
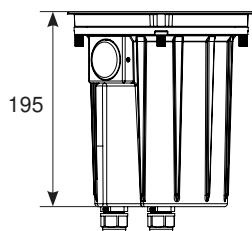
# Fresno LED Adjustable Inground Uplight

Supplied c/w Integral Driver

- High performance LED adjustable inground uplight
- Exceeds performance of 35W CDM-T
- 304L stainless steel bezel and powder coated aluminium housing
- Supplied c/w installation housing for additional protection and ease of installation
- Integral driver and pre-wired with 2 metres of rubber insulated cable
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 36,000 hours
- Non-dimmable



399



Installation Sleeve

## LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	1092lm
Warm White	903lm
Lm/W	
Cool White	73lm
Warm White	60lm
Beam Angle	11°
CRI	Ra 80
CCT	3000K
	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C



Adjustable 30° beam angle

Code	Lamp	Description
<b>AFRWOLED/185</b>	LED	15W - Warm White
<b>AFRWOLED/185/CW</b>	LED	15W - Cool White



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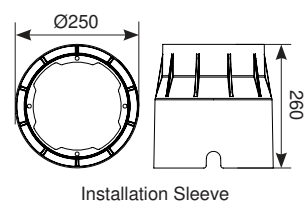
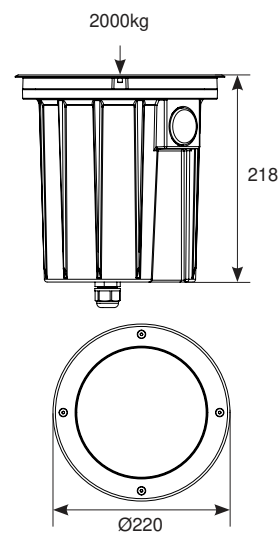
# Fresno LED Adjustable Inground Uplight

Supplied c/w Integral Driver

400



- High performance LED adjustable inground uplight
- Outperforms 70W CDM-T
- 304L stainless steel bezel and powder coated aluminium housing
- Supplied c/w installation housing for additional protection and ease of installation
- Integral driver and pre-wired with 2 metres of rubber insulated cable
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 36,000 hours
- Non-dimmable



Installation Sleeve



Adjustable 30° beam angle

## LED Information

Total (Watts)	20W
Lumens Delivered	
Cool White	1076lm
Warm White	998lm
Lm/W	
Cool White	54lm
Warm White	50lm
Beam Angle	15°
CRI	Ra 80
CCT	3000K 4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
<b>AFRWOLED/220</b>	LED	20W - Warm White
<b>AFRWOLED/220/CW</b>	LED	20W - Cool White

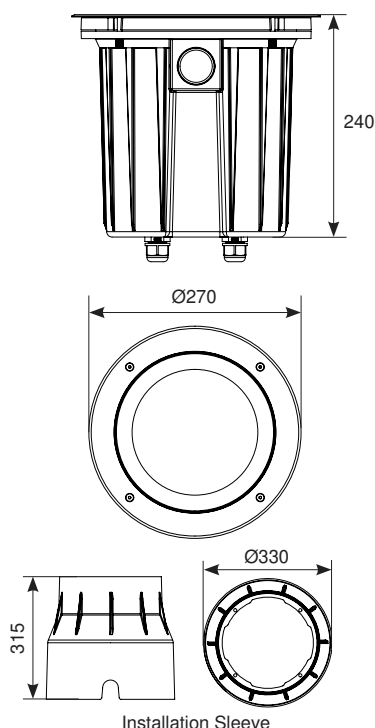
# Fresno LED Adjustable Inground Uplight

Supplied c/w Integral Driver

- High performance LED adjustable inground uplight
- Exceeds performance of 70W CDM-T
- 304L stainless steel bezel and powder coated aluminium housing
- Supplied c/w installation housing for additional protection and ease of installation
- Integral driver and pre-wired with 2 metres of rubber insulated cable
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 36,000 hours
- Non-dimmable



401



Installation Sleeve



Adjustable 30° beam angle

## LED Information

Total (Watts)	30W
Lumens Delivered	
Cool White	1938lm
Warm White	1770lm
Lm/W	
Cool White	65lm
Warm White	59lm
Beam Angle	21°
CRI	Ra 80
CCT	3000K 4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
<b>AFRWOLED/270</b>	LED	30W - Warm White
<b>AFRWOLED/270/CW</b>	LED	30W - Cool White



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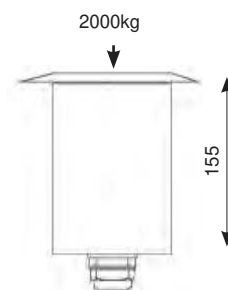
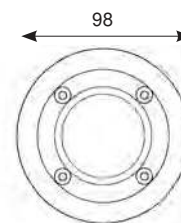
# GU10/MR16 Inground Uplight

Supplied Less Lamp

402



- Supplied with both MR16 and GU10 lampholders
- Compact inground uplight which accepts 12V and mains halogen, CFL and LED lamps
- Housing in die-cast aluminium with clear toughened glass diffuser of 10mm thickness
- 316 stainless steel top ring and stainless steel allen key screws
- Suitable for light vehicular traffic with a static impact resistance of up to 2000kgs
- Supplied with recessed sleeve in high resistant thermoplastic



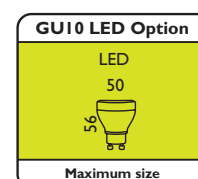
With Sleeve



Without Sleeve

*Caution: surface glass temperature will get very hot under normal halogen operation. It is recommended to use GU10 LED lamps for cooler operation.*

Code	Lamp	Description
AWO50	GU10/MR16	50W



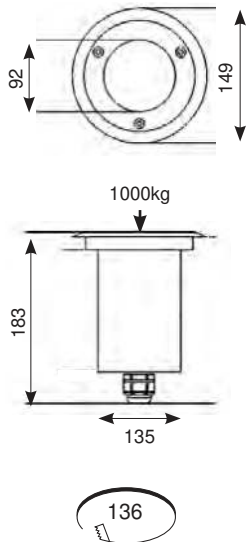
# GU10 Adjustable Inground Uplight

Supplied Less Lamp



403

- Die-cast aluminium housing with a clear toughened glass diffuser of 8mm thickness
- 304 stainless steel top ring and stainless steel allen key screws
- Adjustable lampholder to allow up to 15° vertical inclination of lamp
- Suitable for pedestrian traffic with a static impact resistance of up to 1000kgs



*Caution: surface glass temperature will get very hot under normal halogen operation. It is recommended to use GU10 LED lamps for cooler operation.*



Code	Lamp	Description
AWO/GU10	GU10	50W



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## *Project*

*Pennington Wharf - Leigh, UK*



*Lynx LED Wallpack p427*

# Floodlighting



409

*Colossus HO LED*



410

*Mira 2 LED*



411

*Orion LED Asymmetric*



412

*Vaste LED*



414

*Mira LED*



418

*Zion LED Black*



420

*Zion LED White*



422

*Calinor LED Floodlight*



424

*Eden LED Floodlight*





*Lynx LED Mini Wallpack*



*Lynx LED Wallpack*



*Asuri LED Post Top*



*Onix LED Street Light*



*Designed to*  
***Deliver...***

# Colossus HO LED Floodlight

Supplied c/w Remote LED Driver in a IP65 Enclosure

- Die-cast aluminium luminaire with symmetrical light distribution
- High output, high efficiency floodlight
- Suitable for large external sports or industrial applications
- 500W exceeds the performance of 1000W HQI
- 1000W comparable to performance of 2000W HQI
- Supplied with remote mounted control gear in an IP65 enclosure
- LED Lifespan L70 50,000 hours
- Non-dimmable



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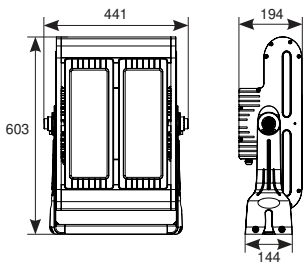
ACOLOED500



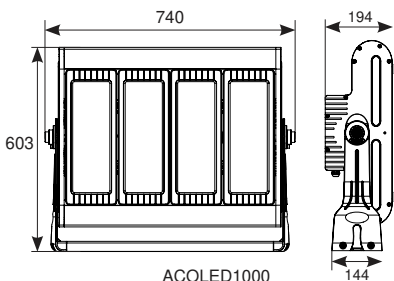
ACOLOED1000



Remote IP65 Enclosure



ACOLEED500



ACOLEED1000

### LED Information

Total (Watts)	500W
	1000W
Lumens Delivered	
500W	66489lm
1000W	132827lm
Beam Angle	60°
Lm/W 500W	133lm
Lm/W 1000W	133lm
CRI	Ra 70
CCT	5000K
Input	100/240V
Hertz	50/60Hz
Operating Temp	-40°C to 40°C

Code	Lamp	Description	Windage
ACOLOED500	LED	500W - Daylight	0.27
ACOLOED1000	LED	1000W - Daylight	0.45



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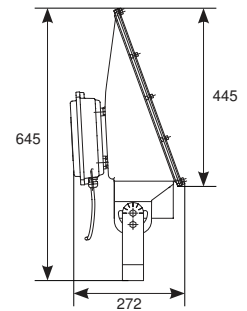
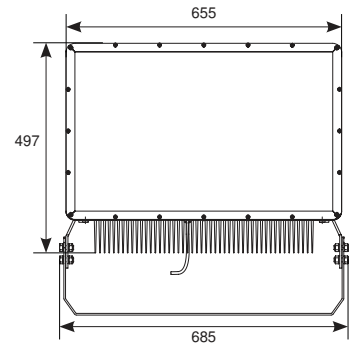


# Mira 2 LED Asymmetric Floodlight

Supplied c/w Integral Driver



- Die-cast LED floodlight with textured graphite colour finish
- Asymmetric reflector for anti-light pollution
- Exceeds the performance of 1000W HQI
- Lighting for large open spaces, sports centres and industrial spaces
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description	Windage
<b>AM2LED/ASY/500</b>	LED	500W - Daylight	0.30
<b>AM2LED/ASY/800</b>	LED	789W - Daylight	0.30

<b>Options</b>	<b>/PC</b>	Electronic Photocell
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### LED Information

<b>Total (Watts)</b>	500W 789W
<b>Lumens Delivered</b>	
500W	72862lm
789W	109264lm
<b>Lm/W 500W</b>	146lm
<b>Lm/W 789W</b>	138lm
<b>CRI</b>	Ra 70
<b>CCT</b>	5000K
<b>Input</b>	100/270V
<b>Hertz</b>	50/60Hz
<b>Operating Temp</b>	-20°C to 50°C

# Orion Asymmetrical LED Floodlight

Supplied c/w Integral Driver

- High performance die-cast aluminium LED floodlight
- High output, high efficiency asymmetric lens technology for anti-light pollution
- High specification IP66, IK08 ratings
- 100W exceeds performance of 150W HQI-T
- 150W exceed performance of 250W HQI-T
- 200W comparable light output of 400W HQI-T
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L80 36,000 hours
- Non-dimmable



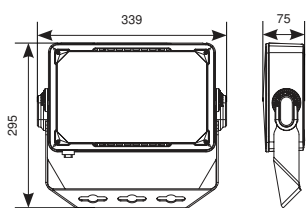
AORFLED100/ASY



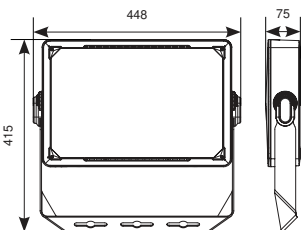
AORFLED150/ASY



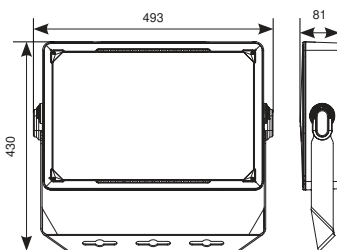
AORFLED200/ASY



AORFLED100/ASY



AORFLED150/ASY



AORFLED200/ASY

### LED Information

Total (Watts)	100W
	150W
	200W

Lumens Delivered	
100W	12298lm
150W	20331lm
200W	27577lm

Lm/W	
100W	123lm
150W	136lm
200W	138lm

CRI Ra 70

CCT 4000K

Input 100-240VAC

Hertz 50/60Hz

Operating Temp -40°C to 40°C

Code	Lamp	Description	Windage
AORFLED100/ASY	LED	100W - Cool White	0.11
AORFLED150/ASY	LED	150W - Cool White	0.24
AORFLED200/ASY	LED	200W - Cool White	0.27



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# Vaste LED Floodlight

Supplied c/w Integral Driver

412



AVFLED10



AVFLED10/PIR

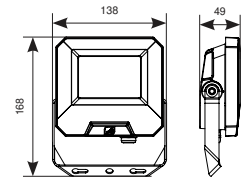


AVFLED30

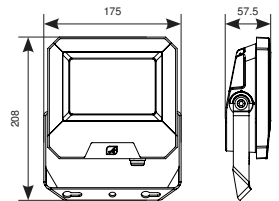


AVFLED50

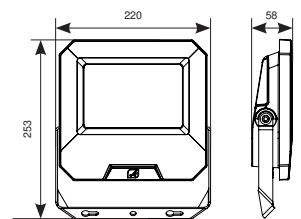
- Modern architectural slim die-cast LED floodlight
- 10W ideal for halogen replacement
- 30W comparable light output to 35W HQI
- 50W comparable light output to 70W HQI-TS
- Die-Cast construction and heat sink design providing optimised thermal characteristics for optimum LED life and performance
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 30,000 hours
- Non-dimmable



AVFLED10



AVFLED30



AVFLED50

## LED Information

Total (Watts)	10W
	30W
	50W

Lumens Delivered	
10W	938lm
30W	2899lm
50W	4822lm

Lm/W 10W	94lm
Lm/W 30W	97lm
Lm/W 50W	96lm

CRI	Ra 80
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CCT	4000K
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Input	220-240V
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Hertz	50/60Hz
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Operating Temp	-20°C to 25°C
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	Code	Lamp	Description	Windage
Standard	AVFLED10	LED	10W - Cool White	0.01
PIR	AVFLED10/PIR	LED	10W c/w PIR - Cool White	0.01
Standard	AVFLED30	LED	30W - Cool White	0.02
Standard	AVFLED50	LED	50W - Cool White	0.04

Option	/PC	Electronic Photocell (50W only)
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- Modern architectural slim die-cast LED floodlight
- 100W comparable performance of 150W HQI-TS
- 200W exceeds performance of 250W HQI-T
- Die-Cast construction and heat sink design providing optimised thermal characteristics for optimum LED life and performance
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable

## Vaste LED Floodlight

Supplied c/w Integral Driver



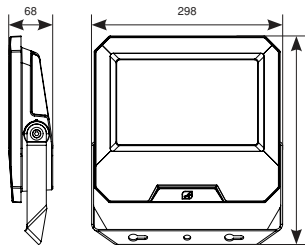
413



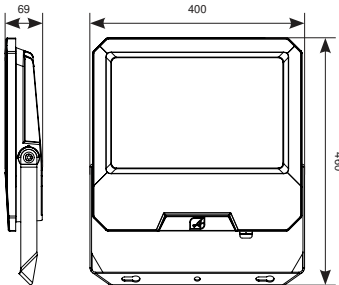
AVFLED100



AVFLED200



AVFLED100



AVFLED200

### LED Information

Total (Watts)	100W 200W
Lumens Delivered	
100W	10055lm
200W	19996lm
Lm/W 100W	102lm
Lm/W 200W	102lm
CRI	Ra 80
CCT	4000K
Input	220-240V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

Code	Lamp	Description	Windage
<b>AVFLED100</b>	LED	100W - Cool White	0.07
<b>AVFLED200</b>	LED	200W - Cool White	0.1

Note: 100W and 200W versions are not suitable for interior use

<b>Options</b>	<b>/PC</b>	Electronic Photocell
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# Mira LED Floodlight

Supplied c/w Integral Driver

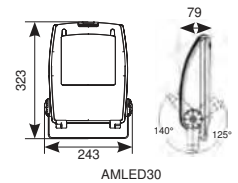


AMLED30

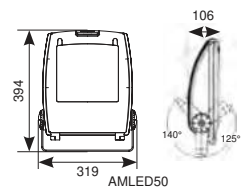


AMLED50

- Architectural slim die-cast LED floodlight
- 30W LED comparable light output to 35W HQI
- 50W LED comparable light output to 70W HQI
- Optically textured glass for enhanced light output
- Heat sink design provides optimum LED life
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 30,000 hours
- Non-dimmable



AMLED30



AMLED50

	Code	Lamp	Description	Windage
<b>Standard</b>	<b>AMLED30</b>	LED	30W - Cool White	0.08
<b>PIR</b>	<b>AMLED30/PIR</b>	LED	30W c/w PIR - Cool White	0.08
<b>Standard</b>	<b>AMLED50</b>	LED	50W - Cool White	0.13
<b>Option</b>	<b>/PC</b>	Electronic Photocell (50W only)		

### LED Information

Total (Watts)	30W
	50W
<b>Lumens Delivered</b>	
30W	2816lm
50W	4805lm
Lm/W 30W	91lm
Lm/W 50W	96lm
CRI	Ra 70
CCT	4750K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C





# Mira LED Floodlight

Supplied c/w Integral Driver

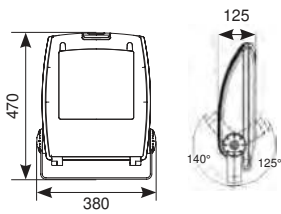
- Architectural slim die-cast LED floodlight
- 100W LED exceeds performance of 150W HQI
- 200W LED comparable performance to 400W HQI
- Optically textured glass for enhanced light output
- Heat sink design provides optimum LED life
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable



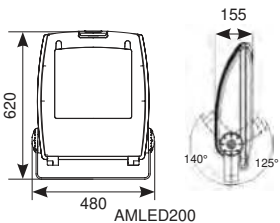
AMLED100



AMLED200



AMLED100



AMLED200

### LED Information

Total (Watts)	100W 200W
Lumens Delivered	
100W	9390lm
200W	19712lm
Lm/W 100W	96lm
Lm/W 200W	101lm
CRI	Ra 70
CCT	4750K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description	Windage
<b>AMLED100</b>	LED	100W - Cool White	0.18
<b>AMLED200</b>	LED	200W - Cool White	0.30

Note: 100W and 200W versions are not suitable for interior use

<b>Options</b>	/PC	Electronic Photocell
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# Zion LED Polycarbonate Floodlight



## **Zion LED range**

The Zion LED range includes 10W, 20W, 30W and 50W variants in both black and white finishes in standard and PIR versions, also available in cool white and warm white



## **Die-cast aluminium heatsink**

Robust powder coated die-cast aluminium heatsink provides excellent thermal management properties



## **Diffuser and reflector design**

Internal mirrored reflector enhances light output from the LED array. The textured polycarbonate diffuser optimises distribution to provide excellent performance.



### **Fast and easy Installation**

*Angled mounting bracket design allows installation of the product without having to remove the bracket*



### **Integrated PIR design Detection Range -120°**

*The integrated PIR design enhances the sleek and minimal appearance. Additionally all PIR versions are supplied with manual override facility and are IP65 rated*

# Zion LED Polycarbonate Floodlight

Supplied c/w Integral Driver

418



**PIR**  
10 Metres Fixed  
8 Seconds - 12 Minutes  
0 - 1000 LUX  
Detection Angle - 120°



AZILED10



AZILED10/PIR

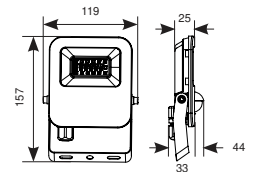


AZILED20

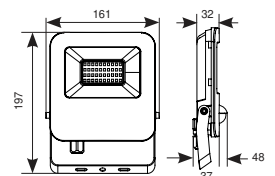


AZILED20/PIR

- Compact and economic polycarbonate LED floodlight
- 10W LED ideal for halogen replacement
- 20W LED exceeds performance of 20W HQI
- Polished faceted reflector and textured polycarbonate for optimum performance
- Bracket design allows removing mounting bracket
- Pre-wired with 1 metre of rubber insulated cable for ease of installation (500mm for 10W)
- PIR versions complete with manual override facility
- LED lifespan L70 25,000 hours
- Non-dimmable



AZILED10 - AZILED10/PIR



AZILED20 - AZILED20/PIR

	Code	Lamp	Description	Windage
Standard	AZILED10	LED	10W - Cool White	0.02
PIR	AZILED10/PIR	LED	10W c/w PIR - Cool White	0.02
Standard	AZILED20	LED	20W - Cool White	0.04
PIR	AZILED20/PIR	LED	20W c/w PIR - Cool White	0.04
Standard	AZILED10/WW	LED	10W - Warm White	0.02
PIR	AZILED10/WW/PIR	LED	10W c/w PIR - Warm White	0.02
Standard	AZILED20/WW	LED	20W - Warm White	0.04
PIR	AZILED20/WW/PIR	LED	20W c/w PIR - Warm White	0.04

## LED Information

	Cool White	Warm White
Total (Watts)	10W	20W
Lumens Delivered		
10W	843lm	771lm
20W	1709lm	1575lm
Lm/W 10W	84lm	77lm
Lm/W 20W	90lm	83lm
CRI		Ra 70
CCT		4000K
		3000K
Input		230V
Hertz		50Hz
Operating Temp		-10°C to 40°C




# Zion LED Polycarbonate Floodlight

Supplied c/w Integral Driver

- Compact and economic polycarbonate LED floodlight
- 30W LED comparable light output of 35W HQI
- 50W LED exceeds performance of 70W HQI
- Polished faceted reflector and textured polycarbonate for optimum performance
- Bracket design allows installation without removing mounting bracket
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 25,000 hours
- Non-dimmable



**PIR**  
  
 10 Metres Fixed  
 8 Seconds - 12 Minutes  
 0 - 1000 LUX  
 Detection Angle - 120°



AZILED30



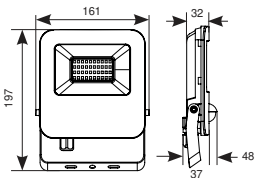
AZILED30/PIR



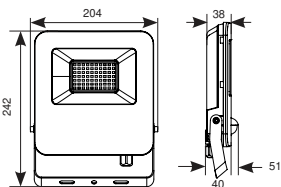
AZILED50



AZILED50/PIR



AZILED30 - AZILED30/PIR



AZILED50 - AZILED50/PIR

## LED Information

Cool White      Warm White

Total (Watts)	30W	
	50W	
Lumens Delivered		
30W	2614lm	2415lm
50W	4698lm	4198lm
Lm/W 30W	84lm	78lm
Lm/W 50W	94lm	84lm
CRI	Ra 70	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	

	Code	Lamp	Description	Windage
<b>Standard</b>	<b>AZILED30</b>	LED	30W - Cool White	0.04
<b>PIR</b>	<b>AZILED30/PIR</b>	LED	30W c/w PIR - Cool White	0.04
<b>Standard</b>	<b>AZILED50</b>	LED	50W - Cool White	0.05
<b>PIR</b>	<b>AZILED50/PIR</b>	LED	50W c/w PIR - Cool White	0.05
<b>Standard</b>	<b>AZILED30/WW</b>	LED	30W - Warm White	0.04
<b>PIR</b>	<b>AZILED30/WW/PIR</b>	LED	30W c/w PIR - Warm White	0.04
<b>Standard</b>	<b>AZILED50/WW</b>	LED	50W - Warm White	0.05
<b>PIR</b>	<b>AZILED50/WW/PIR</b>	LED	50W c/w PIR - Warm White	0.05



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# Zion LED White Polycarbonate Floodlight

Supplied c/w Integral Driver

420



**PIR**  
10 Metres Fixed  
8 Seconds - 12 Minutes  
0 - 1000 LUX  
Detection Angle - 120°



AWZILED10



AWZILED10/PIR

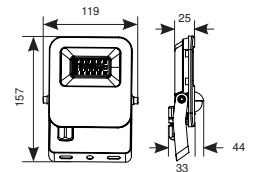


AWZILED20

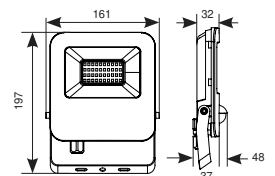


AWZILED20/PIR

- Compact and economic polycarbonate LED floodlight
- 10W LED ideal for halogen replacement
- 20W LED exceeds performance of 20W HQI
- Polished faceted reflector and textured polycarbonate for optimum performance
- Pre-wired with 1 metre of rubber insulated cable for ease of installation (500mm for 10W)
- PIR versions complete with manual override facility
- LED lifespan L70 25,000 hours
- Non-dimmable
- Bracket design allows installation without removing mounting bracket



AWZILED10 - AWZILED10/PIR



AWZILED20 - AWZILED20/PIR

	Code	Lamp	Description	Windage
Standard	AWZILED10	LED	10W - Cool White	0.02
PIR	AWZILED10/PIR	LED	10W c/w PIR - Cool White	0.02
Standard	AWZILED20	LED	20W - Cool White	0.04
PIR	AWZILED20/PIR	LED	20W c/w PIR - Cool White	0.04
Standard	AWZILED10/WW	LED	10W - Warm White	0.02
PIR	AWZILED10/WW/PIR	LED	10W c/w PIR - Warm White	0.02
Standard	AWZILED20/WW	LED	20W - Warm White	0.04
PIR	AWZILED20/WW/PIR	LED	20W c/w PIR - Warm White	0.04

## LED Information

	Cool White	Warm White
Total (Watts)	10W	20W
Lumens Delivered		
10W	843lm	771lm
20W	1709lm	1575lm
Lm/W 10W	84lm	77lm
Lm/W 20W	90lm	83lm
CRI	Ra 70	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	



# Zion LED White Polycarbonate Floodlight

Supplied c/w Integral Driver

- Compact and economic polycarbonate LED floodlight
- 30W LED comparable light output of 35W HQI
- 50W LED exceeds performance of 70W HQI
- Polished faceted reflector and textured polycarbonate for optimum performance
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 25,000 hours
- Non-dimmable
- Bracket design allows installation without removing mounting bracket



**PIR**  
  
 10 Metres Fixed  
 8 Seconds - 12 Minutes  
 0 - 1000 LUX  
 Detection Angle - 120°



AWZILED30



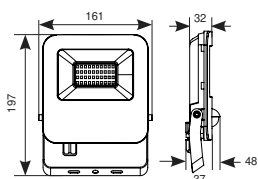
AWZILED30/PIR



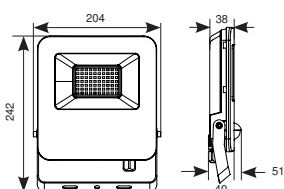
AWZILED50



AWZILED50/PIR



AWZILED30 - AWZILED30/PIR



AWZILED50 - AWZILED50/PIR

## LED Information

Cool White      Warm White

Total (Watts)	30W	
	50W	
Lumens Delivered		
30W	2614lm	2415lm
50W	4698lm	4198lm
Lm/W 30W	84lm	78lm
Lm/W 50W	94lm	84lm
CRI	Ra 70	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	

	Code	Lamp	Description	Windage
<b>Standard</b>	<b>AWZILED30</b>	LED	30W - Cool White	0.04
<b>PIR</b>	<b>AWZILED30/PIR</b>	LED	30W c/w PIR - Cool White	0.04
<b>Standard</b>	<b>AWZILED50</b>	LED	50W - Cool White	0.05
<b>PIR</b>	<b>AWZILED50/PIR</b>	LED	50W c/w PIR - Cool White	0.05
<b>Standard</b>	<b>AWZILED30/WW</b>	LED	30W - Warm White	0.04
<b>PIR</b>	<b>AWZILED30/WW/PIR</b>	LED	30W c/w PIR - Warm White	0.04
<b>Standard</b>	<b>AWZILED50/WW</b>	LED	50W - Warm White	0.05
<b>PIR</b>	<b>AWZILED50/WW/PIR</b>	LED	50W c/w PIR - Warm White	0.05



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# Calinor LED Polycarbonate Floodlight

Supplied c/w Integral Driver

422



ACALED10



ACALED10/PIR



ACALED20

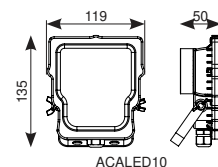


ACALED20/PIR

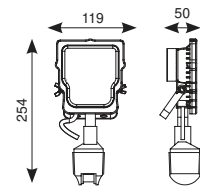


**PIR**  
5 - 12 Metres  
10 Seconds - 8 Minutes  
3 Lux - PC Off  
Detection Angle - 120°

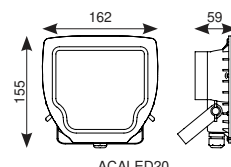
- Compact and economic polycarbonate LED floodlight
- Warm and Cool white options
- 10W LED ideal for halogen replacement  
20W LED exceeds performance of 20W HQI
- Polished faceted reflector and textured glass for optimum performance
- Pre-wired with 1 metre of rubber insulated cable for ease of installation (500mm for 10W)
- PIR versions complete with manual override facility
- LED lifespan L70 20,000 hours
- Non-dimmable



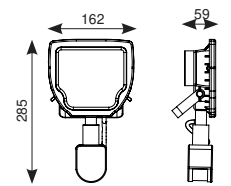
ACALED10



ACALED10/PIR



ACALED20



ACALED20/PIR

## LED Information

	Cool White	Warm White
<b>Total (Watts)</b>		10W 20W
<b>Lumens Delivered</b>		
10W	942lm	892lm
20W	1924lm	1807lm
Lm/W 10W	94lm	89lm
Lm/W 20W	96lm	90lm
<b>CRI</b>	Ra 80	
<b>CCT</b>	4000K 3000K	
<b>Input</b>	230V	
<b>Hertz</b>	50Hz	
<b>Operating Temp</b>	-15°C to 40°C	

	Code	Lamp	Description	Windage
<b>Standard</b>	<b>ACALED10</b>	LED	10W - Cool White	0.02
<b>PIR</b>	<b>ACALED10/PIR</b>	LED	10W c/w PIR - Cool White	0.04
<b>Standard</b>	<b>ACALED20</b>	LED	20W - Cool White	0.03
<b>PIR</b>	<b>ACALED20/PIR</b>	LED	20W c/w PIR - Cool White	0.05
<b>Standard</b>	<b>ACALED10/WW</b>	LED	10W - Warm White	0.02
<b>PIR</b>	<b>ACALED10/WW/PIR</b>	LED	10W c/w PIR - Warm White	0.04
<b>Standard</b>	<b>ACALED20/WW</b>	LED	20W - Warm White	0.03
<b>PIR</b>	<b>ACALED20/WW/PIR</b>	LED	20W c/w PIR - Warm White	0.05





# Calinor LED Polycarbonate Floodlight

Supplied c/w Integral Driver

- Compact and economic polycarbonate LED floodlight
- Warm and Cool white options
- 30W LED comparable light output of 35W HQI  
50W LED exceeds performance of 70W HQI
- Polished faceted reflector and textured glass for optimum performance
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 20,000 hours
- Non-dimmable



5 - 12 Metres  
10 Seconds - 8 Minutes  
3 Lux - PC Off  
Detection Angle - 120°



ACALED30



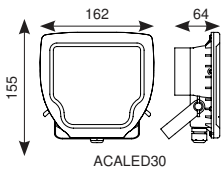
ACALED30/PIR



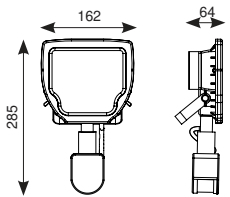
ACALED50



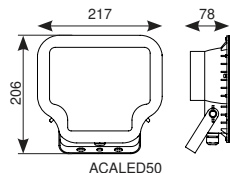
ACALED50/PIR



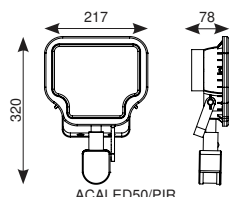
ACALED30



ACALED30/PIR



ACALED50



ACALED50/PIR

## LED Information

Cool White      Warm White

Total (Watts)      30W  
50W

### Lumens Delivered

30W      2708lm      2701lm

50W      4770lm      4511lm

Lm/W 30W      97lm      97lm

Lm/W 50W      99lm      94lm

CRI      Ra 80

CCT      4000K

3000K

Input      230V

Hertz      50Hz

Operating Temp      -15°C to 40°C

	Code	Lamp	Description	Windage
<b>Standard</b>	<b>ACALED30</b>	LED	30W - Cool White	0.03
<b>PIR</b>	<b>ACALED30/PIR</b>	LED	30W c/w PIR - Cool White	0.05
<b>Standard</b>	<b>ACALED50</b>	LED	50W - Cool White	0.05
<b>PIR</b>	<b>ACALED50/PIR</b>	LED	50W c/w PIR - Cool White	0.07
<b>Standard</b>	<b>ACALED30/WW</b>	LED	30W - Warm White	0.03
<b>PIR</b>	<b>ACALED30/WW/PIR</b>	LED	30W c/w PIR - Warm White	0.05
<b>Standard</b>	<b>ACALED50/WW</b>	LED	50W - Warm White	0.05
<b>PIR</b>	<b>ACALED50/WW/PIR</b>	LED	50W c/w PIR - Warm White	0.07



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# Eden LED Floodlight

Supplied c/w Integral Driver

424



AEDELED10/CW



AEDELED10/WW/PIR



AEDELED20/WW

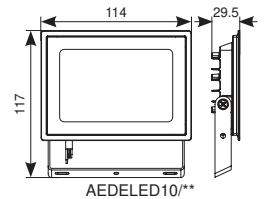


AEDELED20/WW/PIR

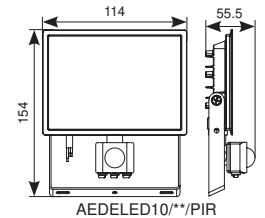


**PIR**  
10 Metres  
10 Seconds - 7 Minutes  
3 - 2000 LUX  
Detection Angle - 120°

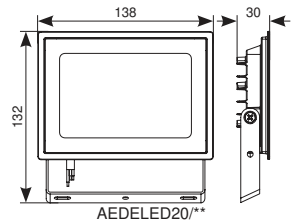
- Compact and economic aluminium LED floodlight
- 10W ideal for halogen replacement
- 20W exceeds performance of 20W HQI
- Bracket design allows installation without removing mounting bracket
- PIR versions complete with manual override facility
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- Cool white and warm white options available
- LED lifespan L90 36,000 hours
- Non-dimmable



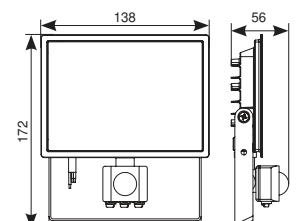
AEDELED10/CW



AEDELED10/WW/PIR



AEDELED20/WW



AEDELED20/WW/PIR

## LED Information

	Cool White	Warm White
<b>Total (Watts)</b>	10W	20W
<b>Lumens Delivered</b>		
10W	953lm	894lm
20W	1834lm	1720lm
Lm/W 10W	95lm	89lm
Lm/W 20W	92lm	86lm
<b>CRI</b>	Ra 80	
<b>CCT</b>	4000K 3000K	
<b>Input</b>	220-240V	
<b>Hertz</b>	50/60Hz	
<b>Operating Temp</b>	-20°C to 40°C	

	Code	Lamp	Description	Windage
<b>Standard</b>	AEDELED10/CW	LED	10W - Cool White	0.02
<b>PIR</b>	AEDELED10/CW/PIR	LED	10W c/w PIR - Cool White	0.02
<b>Standard</b>	AEDELED20/CW	LED	20W - Cool White	0.02
<b>PIR</b>	AEDELED20/CW/PIR	LED	20W c/w PIR - Cool White	0.03
<b>Standard</b>	AEDELED10/WW	LED	10W - Warm White	0.02
<b>PIR</b>	AEDELED10/WW/PIR	LED	10W c/w PIR - Warm White	0.02
<b>Standard</b>	AEDELED20/WW	LED	20W - Warm White	0.02
<b>PIR</b>	AEDELED20/WW/PIR	LED	20W c/w PIR - Warm White	0.03

# Eden LED Floodlight

Supplied c/w Integral Driver

- Compact and economic aluminium LED floodlight
- 30W comparable light output of 35W HQI
- 50W comparable light output of 70W HQI
- Bracket design allows installation without removing mounting bracket
- PIR versions complete with manual override facility
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- Cool white and warm white options available
- LED lifespan L90 36,000 hours
- Non-dimmable



10 Metres  
10 Seconds - 7 Minutes  
3 - 2000 LUX  
Detection Angle - 120°



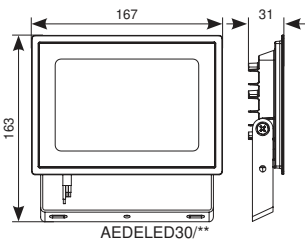
AEDELED30/CW



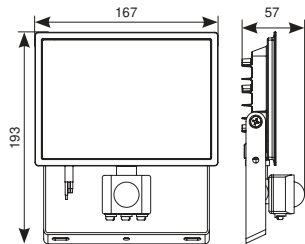
AEDELED30/WW/PIR



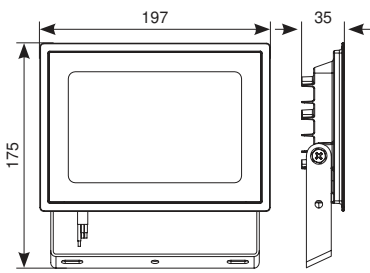
AEDELED50/CW



AEDELED30/\*\*



AEDELED30/\*\*/PIR



AEDELED50/\*\*

## LED Information

	Cool White	Warm White
Total (Watts)		30W
		50W
Lumens Delivered		
30W	2762lm	2547lm
50W	4359lm	3917lm
Lm/W 30W	92lm	85lm
Lm/W 50W	87lm	78lm
CRI		Ra 80
CCT		4000K
		3000K
Input	220-240V	
Hertz	50/60Hz	
Operating Temp	-20°C to 40°C	

	Code	Lamp	Description	Windage
Standard	AEDELED30/CW	LED	30W - Cool White	0.03
PIR	AEDELED30/CW/PIR	LED	30W - c/w PIR - Cool White	0.04
Standard	AEDELED50/CW	LED	50W - Cool White	0.04
PIR	AEDELED50/CW/PIR	LED	50W - c/w PIR - Cool White	0.04
Standard	AEDELED30/WW	LED	30W - Warm White	0.03
PIR	AEDELED30/WW/PIR	LED	30W c/w PIR - Warm White	0.04
Standard	AEDELED50/WW	LED	50W - Warm White	0.04
PIR	AEDELED50/WW/PIR	LED	50W - c/w PIR - Warm White	0.04



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# Lynx Mini LED CCT Wallpack

Supplied c/w Integral Driver

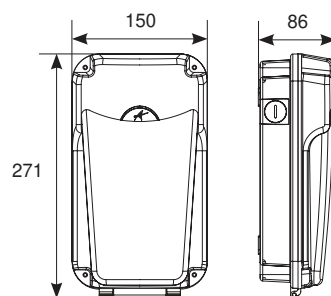
426



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- Tamper-proof allen key screws supplied as standard
- Multiple conduit entry and BESA box fixing points
- Selectable CCT between 3000K and 4000K output
- Photocell and sensor options
- LED lifespan L70 56,000 hours



### LED Information

Total (Watts)	15W
Lumens Delivered	
Cool White	1446lm
Warm White	1172lm
Lm/W	
Cool White	96lm
Warm White	78lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
<b>AMLWPLED/CCT</b>	LED	15W - Cool White/Warm White
<b>Options</b>	<b>/PC</b>	Electronic Photocell
	<b>/MWS</b>	Integral Microwave Sensor



# Lynx LED Wallpack

Supplied c/w Integral Driver

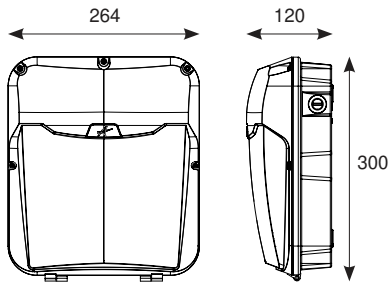


427

- Robust wall mounted luminaire for general accent illumination
- Integral emergency option provides downward illumination with a beam angle of 60°
- Die-cast aluminium body with vandal resistant polycarbonate Fresnel lens diffuser
- Tamper-proof allen key screws supplied as standard
- Multiple conduit entry and BESA box fixing points
- Photocell and sensor options
- LED lifespan L70 56,000 hours



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### LED Information

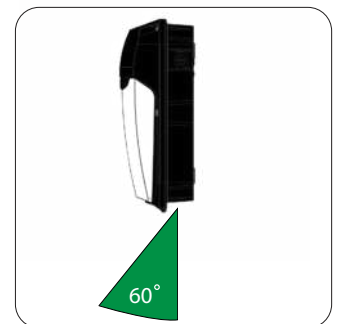
Total (Watts)	29W
Lumens Delivered	
Cool White	2073lm
Warm White	1935lm
Lm/W	
Cool White	71lm
Warm White	67lm
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C



**Emergency Standby**



**Emergency Operation**



**Emergency Mode Beam Angle**

Code	Lamp	Description
<b>ALWPLED</b>	LED	29W - Cool White
<b>ALWPLED/WW</b>	LED	29W - Warm White

Options	Description
<b>/PC</b>	Electronic Photocell
<b>/M3</b>	Emergency
<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)
<b>/MWS</b>	Integral Microwave Sensor



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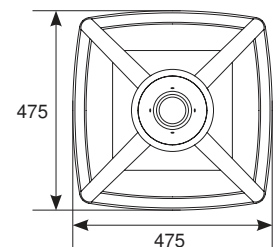
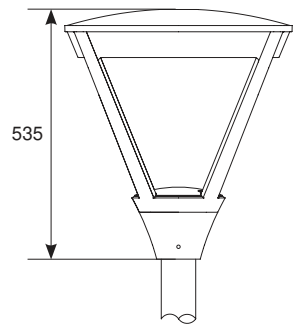
# Asuri LED Post Top

Supplied c/w Integral Driver

428



- Modern die-cast aluminium post top lantern
- Electrostatic paint finish for enhanced corrosion resistance
- Ideal for large carparks and large open areas
- Suitable for residential and commercial use
- Adjustable spigot bracket 50-76mm supplied as standard
- Powered by Philips
- LED lifespan L70 50,000 hours



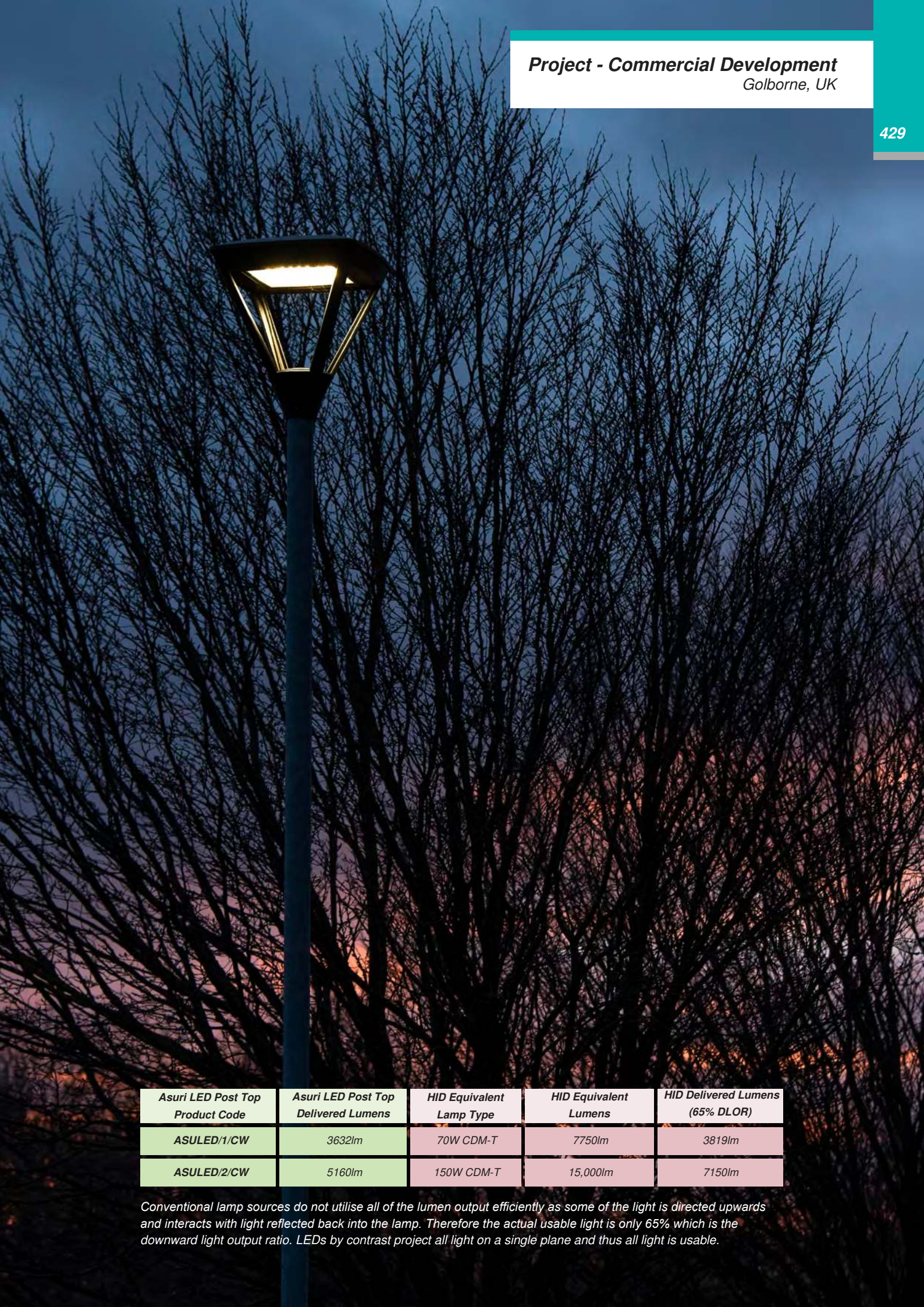
Code	Lamp	Description	Windage
ASULED/1/CW	LED	42W - Cool White	0.08
ASULED/2/CW	LED	63W - Cool White	0.08
ASULED/1/WW	LED	42W - Warm White	0.08
ASULED/2/WW	LED	63W - Warm White	0.08

Options	/PC	Electronic Photocell
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### LED Information

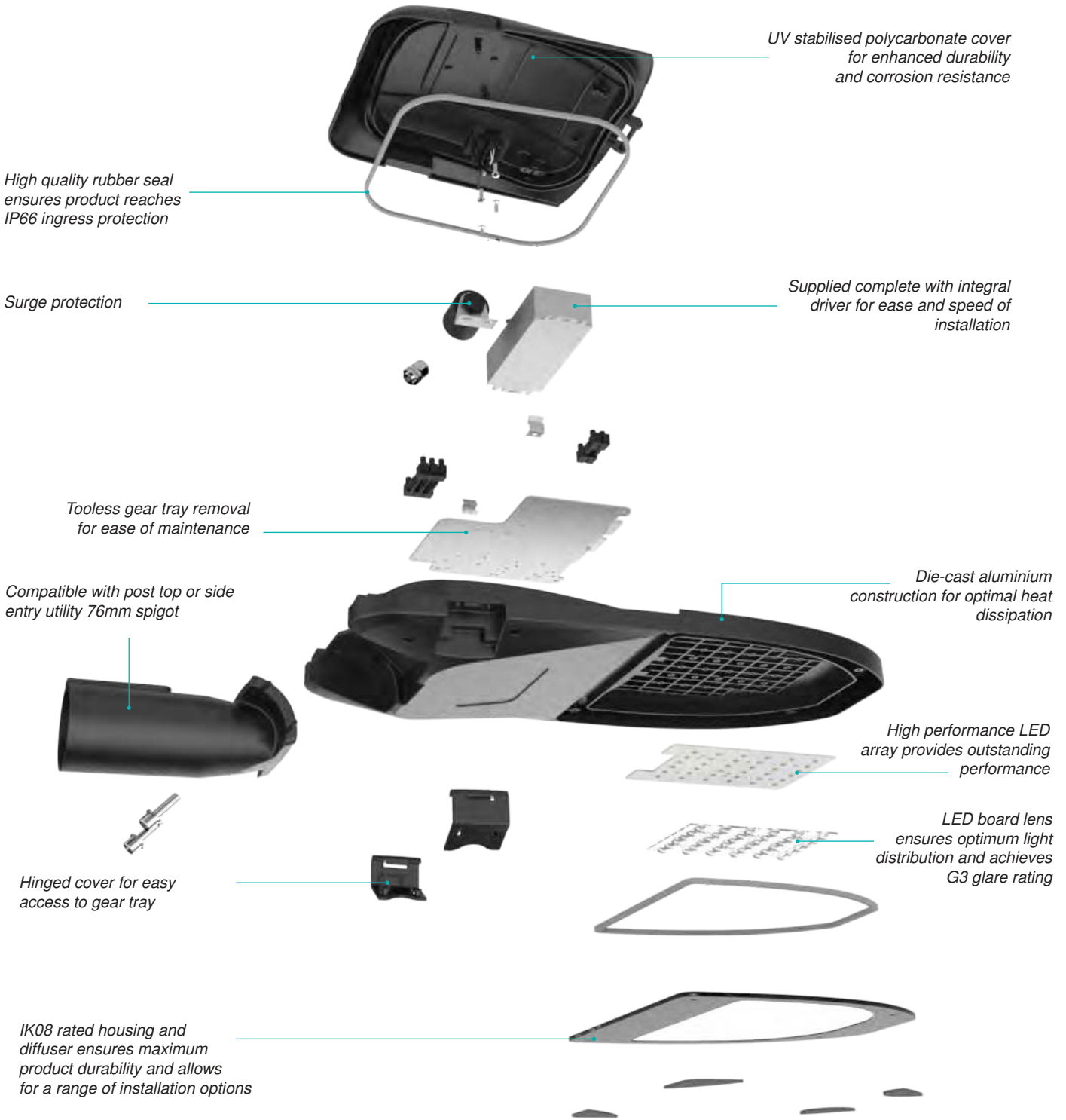
Total (Watt)	42W	63W
Lumens Delivered		
Cool White	3632lm	5160lm
Warm White	3060lm	4350lm
Lm/W		
Cool White	86lm	82lm
Warm White	77lm	73lm
CRI	Ra 70	
CCT	4000K 3000K	
Input	100/240V	
Hertz	50Hz	
Operating Temp	-40°C to 55°C	





<b>Asuri LED Post Top Product Code</b>	<b>Asuri LED Post Top Delivered Lumens</b>	<b>HID Equivalent Lamp Type</b>	<b>HID Equivalent Lumens</b>	<b>HID Delivered Lumens (65% DLOR)</b>
<b>ASULED/1/CW</b>	3632lm	70W CDM-T	7750lm	3819lm
<b>ASULED/2/CW</b>	5160lm	150W CDM-T	15,000lm	7150lm

Conventional lamp sources do not utilise all of the lumen output efficiently as some of the light is directed upwards and interacts with light reflected back into the lamp. Therefore the actual usable light is only 65% which is the downward light output ratio. LEDs by contrast project all light on a single plane and thus all light is usable.



Onix LED Street Light Product Code	Onix LED Street Light Delivered Lumens	HID Equivalent Lamp Type	HID Equivalent Lumens	HID Delivered Lumens (65% DLOR)
AONIXLED1	1974lm	35W CDM-T	4000lm	2528lm
AONIXLED2	3936lm	70W HQI-E	5300lm	3816lm
AONIXLED3	6167lm	100W HQI-E	8100lm	6035lm
AONIXLED4	8222lm	150W HQI-E	13,300lm	8606lm

Conventional lamp sources do not utilise all of the lumen output efficiently as some of the light is directed upwards and interacts with light reflected back into the lamp. Therefore the actual usable light is only 65% which is the downward light output ratio. LEDs by contrast project all light on a single plane and thus all light is usable.



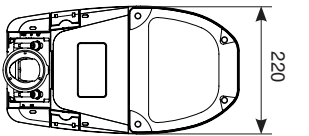
# Onix LED Street Light

Supplied c/w Integral Driver

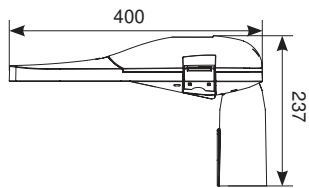


431

- Die-cast aluminium construction for optimal heat dissipation and performance
- UV stabilized polycarbonate cover
- Toolless gear tray removal for ease of maintenance
- Built in anti-tamper isolation facility
- Compatible with post top or side entry utility 76mm spigot
- G3 Glare Rating
- Surge protection
- Available in standard, complete with photocell option
- LED lifespan L70 50,000 hours



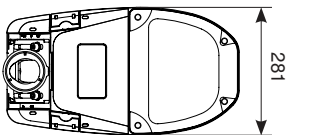
220



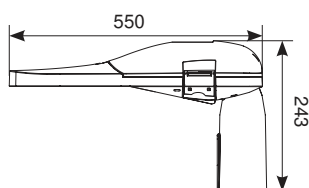
400

237

AONIXLED/1 - AONIXLED/2



281



550

243

AONIXLED/3 - AONIXLED/4



AONIXLED/1 - AONIXLED/2



AONIXLED/3 - AONIXLED/4



Adjustable 48-60mm Spigot bracket

## LED Information

Total (Watts)	20W 60W
	40W 80W
Lumens Delivered	1974lm 6167lm
	3936lm 8222lm
Lm/W	104lm 103lm
	98lm 103lm
CRI	Ra 70
CCT	5000K
Input	100/240V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description	Windage
<b>AONIXLED/1</b>	LED	20W - Cool White	0.04
<b>AONIXLED/2</b>	LED	40W - Cool White	0.04
<b>AONIXLED/3</b>	LED	60W - Cool White	0.07
<b>AONIXLED/4</b>	LED	80W - Cool White	0.07

<b>Options</b>	/PC	Electronic Photocell
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<b>Accessories</b>	<b>AONIXLED/SBA</b>	48-60mm Spigot Bracket
	<b>AONIXLED/WB</b>	Wall Bracket



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## Project

Skynet - Wilmslow, UK



Z LED High Bay UFO p439



*Deco LED High Bay*



*Z LED  
High Bay UFO*



*ForceLINE LED*



*Opti-Lux LED Linear*



*Pre-Wired T8 Non-  
Corrosive for LED Tubes*



*Stormloc LED  
Non-Corrosive*



446

*Tornado Pro LED  
Non-Corrosive*



448

*Tornado LED  
Non-Corrosive*



450

*Tornado LED 110V  
Non-Corrosive*



451

*Sleek LED 110V  
Bulkhead*



453

*Airbeam LED Batten*



454

*Topline 6 LED Batten*



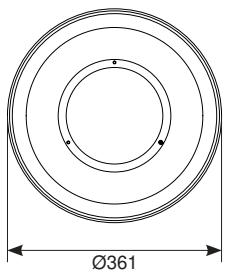
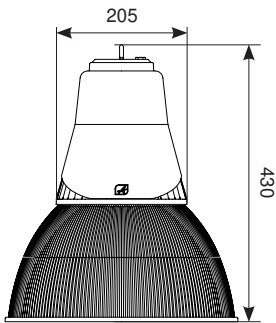
*Designed to*  
***Deliver...***

# Deco High Bay LED

Supplied c/w Integral Driver



- Decorative modern LED pendant supplied with either polycarbonate refractor or aluminium reflector
- Suitable for industrial, commercial and retail applications
- 41W exceeds performance of 70W HQI
- 96W exceeds performance of 150W HQI
- Matt grey textured powder coated finish
- LED lifespan L70 54,000 hours



## LED Information

Total (Watts)	41W	96W
Lumens Delivered		
/ALU	4760lm	10437lm
/PC	4678lm	10375lm
Lm/W		
/ALU	114lm	109lm
/PC	116lm	108lm
Beam Angle		
/PC		68°
/ALU		63°
CRI		Ra 80
CCT		4000K
Input		230V
Hertz		50/60Hz
Operating Temp		-20°C to 25°C



ADHBLED1/PC



ADHBLED2/ALU

Code	Lamp	Description
<b>ADHBLED1/PC</b>	LED	41W - c/w PC Refractor
<b>ADHBLED2/PC</b>	LED	96W - c/w PC Refractor
<b>ADHBLED1/ALU</b>	LED	41W - c/w Aluminium Reflector
<b>ADHBLED2/ALU</b>	LED	96W - c/w Aluminium Reflector
<b>Options</b>	<b>/DD</b>	Digital dimming (DD1/DD2/DD3/DD4)
<b>Accessories</b>	<b>ADHBLED/PC/BC</b>	PC Bottom Cover (360mm)
	<b>ADHBLED/SK</b>	Suspension Kit

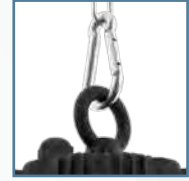


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# Z LED UFO

Pre-wired with 3m of H07RN-F cable for ease and speed of installation



Supplied eye bolt aiding speedy point-for-point installation

IK08 Impact Rating

Robust die-cast body for any application

Highly effective die-cast aluminium heat sink for optimum heat dispersion

High efficiency LED packages and wide beam angles to suit a wide range of applications

Silicone Gasket provides IP65 Ingress Protection

Polycarbonate diffuser offers durable protection

316L stainless steel allen bolts for protection against corrosion

Z LED UFO Product Code	Z LED UFO (4000K) Delivered Lumens	HID Equivalent Lamp Type	HID Equivalent Lumens	HID Delivered Lumens (65% DLOR)
AZLED/1	11858lm	150W HQI-E	13,300lm	8645lm
AZLED/2	18443lm	250W HQI-E	23,800lm	15470lm
AZLED/3	23965lm	400W HQI-E	41,000lm	26650lm

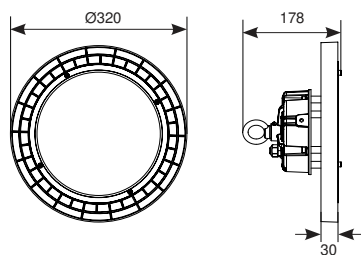
Conventional lamp sources do not utilise all of the lumen output efficiently as some of the light is directed upwards and interacts with light reflected back into the lamp. Therefore the actual usable light is only 65% which is the downward light output ratio. LEDs by contrast project all light on a single plane and thus all light is usable.



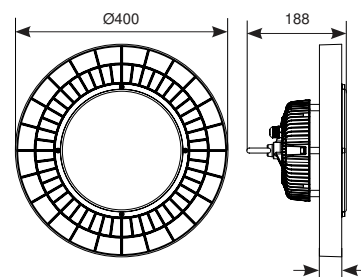
- Robust LED low/high bay for industrial, commercial and retail applications
- 1-10V dimmable as standard
- Pre-wired with 3m of H07RN-F cable for ease and speed of installation
- Microwave sensor programmer available for versatile commissioning
- Alternative installation options by means of drop rods, jack chain / catenary wire
- 96W comparable to 150W HQI
- 146W comparable to 250W HQI
- 197W comparable to 400W HQI
- Die-cast powder coated construction and heatsink for optimum thermals and performance
- TP(a) as standard
- LED lifespan L70 50,000 hours

# Z LED High Bay UFO

Supplied c/w Integral Driver



AZLED/1 + AZLED/2



AZLED/3



AZLED/REF - Aluminium Reflector



AZLED/FB1 - Mounting Bracket Accessory



AZLED/MWS - Microwave Sensor Fitted

## Microwave Sensor

- IP65 Rated Enclosure.
- 3M - 15M Mounting height ideal for any low to high level mounting heights.
- Automatic 1-10V Dimming with time delay and pre-set dimming levels to select.
- Built-in daylight sensor for enhanced energy saving via daylight harvesting.
- Dip-switch or remote control commissioning allows for versatile sensor programming; options include, Hold Time, Stand-By Dim Level, Daylight Sensor and many more.

### LED Information

Total (Watts)	96W	
	146W	
	197W	
Lumens Delivered	4000K	6500K
96W	12090lm	12593lm
146W	19224lm	19064lm
197W	25292lm	26409lm
Lm/W		
96W	128lm	130lm
146W	131lm	127lm
197W	128lm	129lm
CRI	Ra 80	
CCT	4000K	
	6500K	
Input	200V-240V	
Hertz	50/60Hz	
Operating Temp	-40°C to 40°C	

Code	Lamp	Description
AZLED/1	LED	96W - Cool White
AZLED/2	LED	146W - Cool White
AZLED/3	LED	197W - Cool White

AZLED/1/DL	LED	98W - Daylight
AZLED/2/DL	LED	151W - Daylight
AZLED/3/DL	LED	198W - Daylight

Options		
/M3	Emergency	
/MWS	Microwave Sensor	

Accessories		
AZLED/REF	Aluminium Reflector	
AZLED/FB1	Mounting Bracket Accessory Z-LED LED Highbay	
AZLED/MWSP	High Bay Microwave Sensor Programmer	



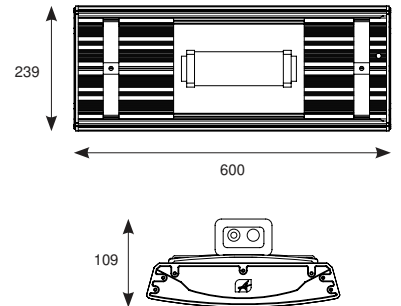
# ForceLINE LED

Supplied c/w Integral Driver

440



- Powerful and robust IP65 low/high bay, perfect for the demands of industrial applications
- Mounting brackets supplied as standard for droprod or chain/wire installation
- Comparable to 4 x 55W PL
- Powered by Philips
- Die-cast aluminium construction provides enhanced thermal performance for longer LED lifespan
- Anti-glare polycarbonate diffuser maximises performance and light output
- LED lifespan L70 51,000 hours



Code	Lamp	Description
<b>AFLLED2</b>	LED	156W - Cool White

Options	Code	Description
	<b>/M3</b>	Emergency
	<b>/SM3</b>	Self-Test emergency
	<b>/DM3</b>	DALI emergency
	<b>/DD</b>	Digital Dimming (DD1/DD3/DD4)
	<b>/MWS</b>	Integral Microwave Sensor

## LED Information

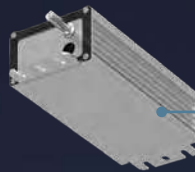
Total (Watts)	156W
Lumens Delivered	15474lm
Lm/W	99lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C



# FORCE LINE LED

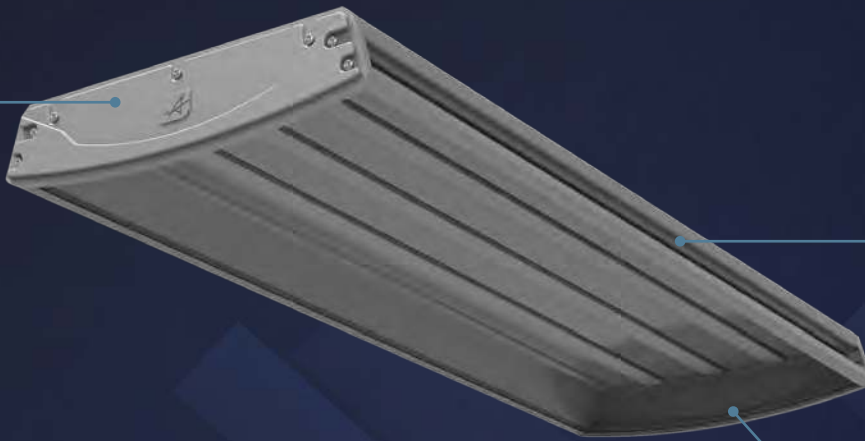
*Optional Microwave sensor accessory*

*Hytronik high frequency motion sensor  
Hold time: 5secs - 30mins  
LUX: 2 - 50 lux  
Detection Range: 12m*



*Powered by Philips  
Xitanium driver*

*High quality die-cast  
end caps.*



*Aluminium extruded  
housing for thermal  
management to achieve  
longer LED lifespan*

*Latest LED chips for  
maximum efficiency  
and performance*



*Silicone gasket provides  
IP65 ingress protection*



*Anti glare polycarbonate diffuser  
maximises performance and light  
distribution*

# Opti-Lux LED Linear

Supplied c/w Integral Driver



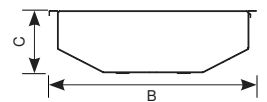
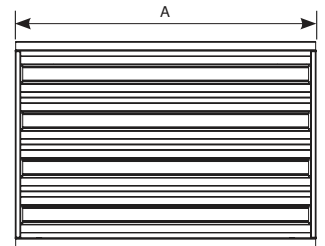
AOLEDL55

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AOLEDL80

- LED Low / High Bay suitable for industrial and commercial applications
- 92W performance comparable to 4x55W PL
- 160W exceeds performance of 4x49W T5
- Instant light output and unlimited switching
- Supplied c/w 3 metre catenary suspension kit
- Mild Steel powder coat construction
- Mirror finished reflector optimises light output for maximum efficiency
- LED lifespan L70 54,000 hours
- On site commissioning recommended for all installations incorporating sensors



Code	Lamp	Description	A	B	C
<b>AOLEDL55</b>	LED	92W - Cool White	615	410	120
<b>AOLEDL80</b>	LED	160W - Cool White	1455	410	120
<b>AOCONTROLLER</b>		Sensor Hand Controller			
<b>AOCOMMISSION</b>		On-site Commissioning per day			

Options	/M3	Emergency
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)
	/SEN1	Presence Detector
	/SEN3	Presence Detector and Daylight Dimming

Accessories	AOLEDL55/WG	Wire Guard (615mm)
	AOLEDL80/WG	Wire Guard (1455mm)

### LED Information

Total (Watts)	92W
	160W
Lumens Delivered	
92W	12386lm
160W	19236lm
Lm/W 92W	135lm
Lm/W 160W	120lm
CRI	Ra 80
CCT	4000K
Input	220/240V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

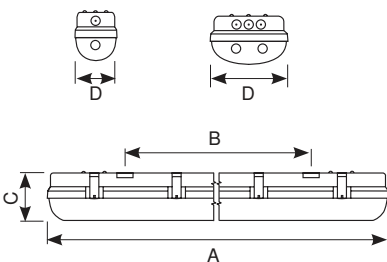


# IP65 T8 Pre-Wired Non Corrosive For LED Tubes

Non Corrosive supplied Less Control Gear and Lamp



- Mains Voltage Non Corrosive for Ansell T8 LED Tubes
- Fixture supplied with lockable stainless steel clips as standard



Code	Lamp	Description	A	B	C	D	Clips
ADP2	LED	1 x 600mm for LED Tube	655	478	110	105	4
ADP4	LED	1 x 1200mm for LED Tube	1265	907	110	105	8
ADP5	LED	1 x 1500mm for LED Tube	1565	907	110	105	10
ADP2X2	LED	2 x 600mm for LED Tube	655	478	110	165	4
ADP2X4	LED	2 x 1200mm for LED Tube	1265	907	110	165	8
ADP2X5	LED	2 x 1500mm for LED Tube	1565	907	110	165	10



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# Stormloc<sup>TM</sup>

ELEMENT PROTECTION **LED**

Unique design of brackets for BESA box mounting or direct ceiling mounting

UV stabilised polycarbonate base for durability and strength

Heavy duty lockable stainless steel clips as standard

**TRIDONIC**  
and Philips drivers  
(dimnable option available)

Integral microwave sensor option

Dedicated LED circuit for integral Self-Test emergency option

Aluminium gear tray for thermal management to maximise lifetime of LED array

Two fused terminal blocks for surge protection

Latest LED chips for maximum performance and efficiency

Optical lens securing end cap

Visiluxe optical lens maximises performance and light distribution

Provides appearance of traditional fluorescent

Shockproof polycarbonate diffuser for high durability and strength



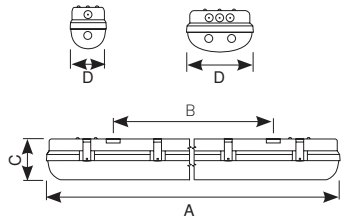
# Stormloc IP65 LED Non-Corrosive

Supplied c/w Integral Driver

- Up to 48% energy saving compared to T8 fluorescent
- Light output exceeds performance of T8 and T5 fluorescent by up to 37%
- LED performance allows point for point replacement of existing fluorescent luminaires
- Internal linear Visiluxe optical lens for maximum performance and light distribution. Provides appearance of traditional fluorescent
- Instant light output with unlimited switching
- Unique luminaire fixing clip design allows option of mounting onto BESA box or directly onto ceiling surfaces
- Lockable heavy duty stainless steel clips supplied as standard for added safety and security
- Polycarbonate base and diffuser maximises durability and strength
- Powered by Philips and Tridonic drivers
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor models
- LED lifespan L70 56,000 hours



Internal high performance optical lens



## LED Information

Total (Watts)	20W	39W
	29W	58W
	46W	86W
Lumens Delivered	2440lm	4698lm
	3534lm	6978lm
	3652lm	7109lm
Lm/W	122lm	120lm
	122lm	120lm
	79lm	83lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 40°C	

Code	Lamp	Description	A	B	C	D
ASLED4	LED	20W	1265	907	110	105
ASLED5	LED	29W	1565	907	110	105
ASLED6	LED	46W	1858	1170	110	105
ASLED2X4	LED	39W	1265	907	110	165
ASLED2X5	LED	58W	1565	907	110	165
ASLED2X6	LED	86W	1858	1170	110	165

## Options

/M3	Self-Test Emergency
/DD	Digital Dimming (DD1/DD2/DD3/DD4)
/MWS	Integral Microwave Sensor



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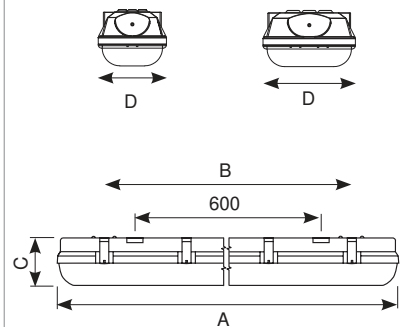
# Tornado Pro LED Non-Corrosive

Supplied c/w Integral Driver



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- Exceeds performance of standard T5 fluorescent
- Ultra slim IP65 LED NCF linear.
- Unique base design caters for multiple installation methods.
- Installer friendly imbedded features aid accurate and fast installation for any application.
- Quick release LED array / gear tray assembly provides the installer the means to faster installation / maintenance.
- Fast latching / permanently located stainless steel side clips ensure a quick and secure connection
- Tridonic LED driver as standard
- Self-test emergency as standard with Li-ion battery technology, reducing charge time and running costs
- LED lifespan  
L80 B10 54,000 hours



Code	Lamp	Description	A	B	C	D
ATORPLED4	LED	20W	1265	860	70	85
ATORPLED5	LED	29W	1565	960	70	85
ATORPLED6	LED	35W	1865	1200	70	85
ATORPLED2X4	LED	41W	1265	860	70	115
ATORPLED2X5	LED	61W	1565	960	70	115
ATORPLED2X6	LED	78W	1865	1200	70	115

Options	Code	Description
	/M3	Self-Test emergency
	/DM3	DALI emergency
	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)
	/MWS	Integral Microwave Sensor

### LED Information

Total (Watts)	20W	41W
	29W	61W
	35W	78W
Lumens Delivered	2331lm	4457lm
	3209lm	6314lm
	3702lm	8204lm
Lm/W	117lm	109lm
	111lm	104lm
	106lm	105lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	





# Tornado Pro

ELEMENT PROTECTION LED

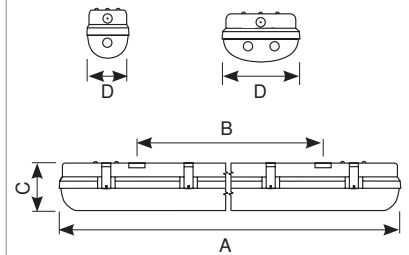


# Tornado IP65 LED Non-Corrosive

Supplied c/w Integral Driver



- LED Performance allows point-to-point replacement of existing fluorescent luminaires
- Light output exceeds performance of T8 and T5 fluorescent
- Unique luminaire fixing clip design allows option of mounting onto BESA box
- Lockable heavy-duty stainless steel clips supplied as standard for added safety and security
- Self-test emergency as standard
- LED lifespan L70 30,000 hours



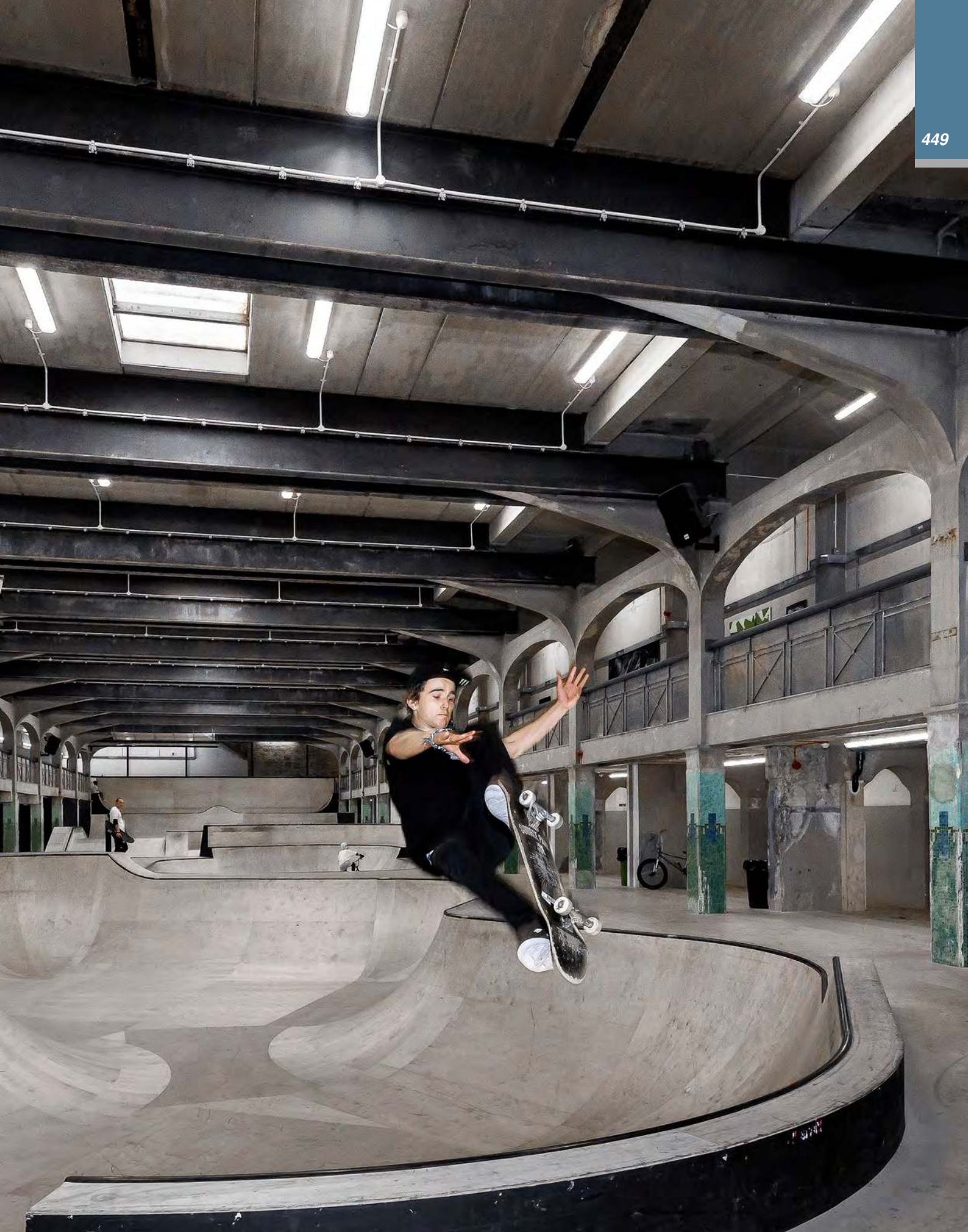
Code	Lamp	Description	A	B	C	D
ATORLED4	LED	20W	1266	860	75	85
ATORLED5	LED	28W	1566	960	75	85
ATORLED6	LED	35W	1866	1030	80	85
ATORLED2X4	LED	40W	1266	860	75	118
ATORLED2X5	LED	58W	1566	960	75	118
ATORLED2X6	LED	71W	1855	1030	80	118

Options	/M3	Self-Test Emergency
	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)
	/MWS	Integral Microwave Sensor

### LED Information

Total (Watts)	20W	40W
	28W	58W
	35W	71W
Lumens Delivered	2088lm	4425lm
	3230lm	6353lm
	3823lm	7320lm
Lm/W	104lm	110lm
	115lm	110lm
	109lm	103lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	





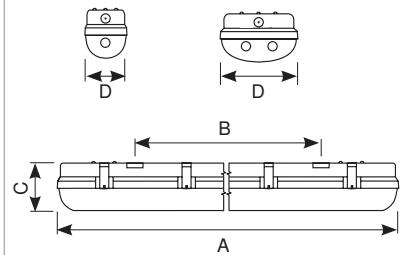
**Project - Source Park**  
Hasting, UK

# Tornado 110V LED

Supplied c/w Integral Driver



- LED Performance allows point-to-point replacement of existing fluorescent luminaires
- Suitable for all types of 110V site lighting
- Light output exceeds performance of T8 and T5 fluorescent
- Unique luminaire fixing clip design allows option of mounting onto BESA box
- Lockable heavy-duty stainless steel clips supplied as standard for added safety and security
- Self-test emergency as standard
- LED lifespan L70 30,000 hours
- Non-dimmable



Code	Lamp	Description	A	B	C	D
ATORLED2/110V	LED	10W	656	360	75	85
ATORLED4/110V	LED	20W	1266	860	75	85
ATORLED5/110V	LED	28W	1566	960	75	85
ATORLED2X2/110V	LED	20W	656	360	75	118
ATORLED2X4/110V	LED	40W	1266	860	75	118
ATORLED2X5/110V	LED	58W	1566	960	75	118

Options	Code	Description
	/M3	Self-Test Emergency
	/MWS	Integral Microwave Sensor

### LED Information

Total (Watts)	10W	20W
	20W	40W
	28W	58W
Lumens Delivered	1164lm	2297lm
	2088lm	4225lm
	3230lm	6353lm
Lm/W	118lm	118lm
	104lm	110lm
	115lm	110lm
CRI	Ra 80	
CCT	4000K	
Input	100/240V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	



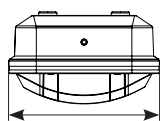
# Sleek LED 110V Polycarbonate Bulkhead

Supplied c/w Integral Driver

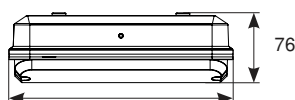


451

- All polycarbonate multi-purpose bulkhead
- Exceeds performance of 9W PL
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Suitable for all types of site lighting
- Instant light output and unlimited switching
- Red diffuser accessory available for applications that require warning indication luminaires
- LED lifespan L70 56,000 hours
- Non-dimmable



124



244

76



Sleek 110V fitted with red polycarbonate Lens accessory

## LED Information

Total (Watts)	5W
Lumens Delivered	424lm
Lm/W	85lm
CRI	Ra 80
CCT	4000K
Input	110V
Hertz	50Hz
Operating Temp	-10°C to 40°C

Code      Lamp      Description

**ASBLED/110V**      LED      5W - Yellow Base

**Options**      /PC      Electronic Photocell

                  /MWS      Integral Microwave Sensor

**Accessory**      **ASBLED/DIFF/RED**      Red Polycarbonate Lens



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# Installation Features



**Push Release End Cap**



**20mm Conduit Entry Facility**



**End Cap Fixing Option**



**Ceiling Mounting  
Continuous Fixings**

- *Push and release end cap for quick access*

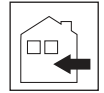
- *Connection option via 20mm conduit entry*

- *Optional fixing through end cap if required*
- *BESA box fixing as standard*

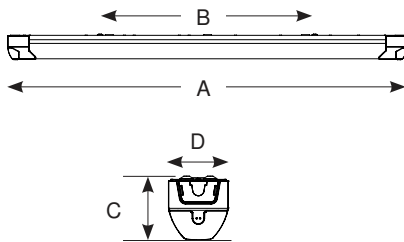
- *Unique ceiling mounting 'shunt' facility provides installer with flexibility and ease of adjustment when continuous mounting*

# Airbeam LED Batten

Supplied c/w Integral Driver



- High performance LED batten for multi-purpose applications
- Up to 56% energy saving compared to T8 fluorescent
- Powered by Philips and Tridonic drivers
- Steel body construction with powder coat finish
- Polycarbonate reeded diffuser and end caps
- Instant light output with unlimited switching
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor models
- LED lifespan L70 56,000 hours



Push Release End Cap



20mm Conduit Entry Facility



End Cap Fixing Option



Ceiling Mounting Continuous Fixings

## LED Information

Total (Watts)	24W	52W
	33W	61W
	42W	84W
Lumens Delivered	2778lm	5517lm
	3608lm	6407lm
	4189lm	7910lm
Lm/W	116lm	106lm
	109lm	105lm
	100lm	94lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	0°C to 25°C	

	Code	Lamp	Description	A	B	C	D
<b>Standard</b>	<b>ABLED4</b>	LED	1 x 24W	1220	600	77	76
	<b>ABLED5</b>	LED	1 x 33W	1525	600	77	76
	<b>ABLED6</b>	LED	1 x 42W	1820	600	77	76
	<b>ABLED2X4</b>	LED	1 x 52W	1220	600	77	76
	<b>ABLED2X5</b>	LED	1 x 61W	1525	600	77	76
	<b>ABLED2X6</b>	LED	1 x 84W	1820	600	77	76

<b>Options</b>	<b>/M3</b>	Self-Test Emergency
	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4 - ABLED2X6 Not Available)
	<b>/MWS</b>	Integral Microwave Sensor



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# Topline 6 LED Batten

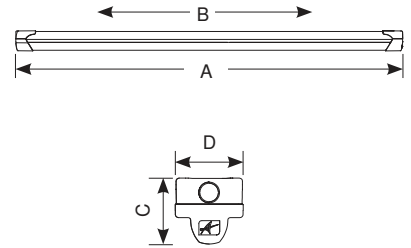
Supplied c/w Integral Driver



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- High performance LED batten for multi-purpose applications
- Exceeds performance of T5 equivalents
- Steel body construction with powder coat finish
- Unique opal diffuser design for optimum performance and light distribution
- Polycarbonate end caps
- Instant light output with unlimited switching
- Self-test emergency as standard
- LED lifespan L70 36,000 hours



Code	Lamp	Description	A	B	C	D
<b>ATLLED4</b>	LED	26W - Cool White	1220	600	65	65
<b>ATLLED5</b>	LED	34W - Cool White	1525	600	65	65
<b>ATLLED6</b>	LED	41W - Cool White	1745	600	65	65
<b>ATLLED2X4</b>	LED	47W - Cool White	1220	600	65	65
<b>ATLLED2X5</b>	LED	61W - Cool White	1525	600	65	65
<b>ATLLED2X6</b>	LED	72W - Cool White	1745	600	65	65

Options	Code	Description
	<b>/M3</b>	Self-Test Emergency
	<b>/MWS</b>	Integral Microwave Sensor
	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

## LED Information

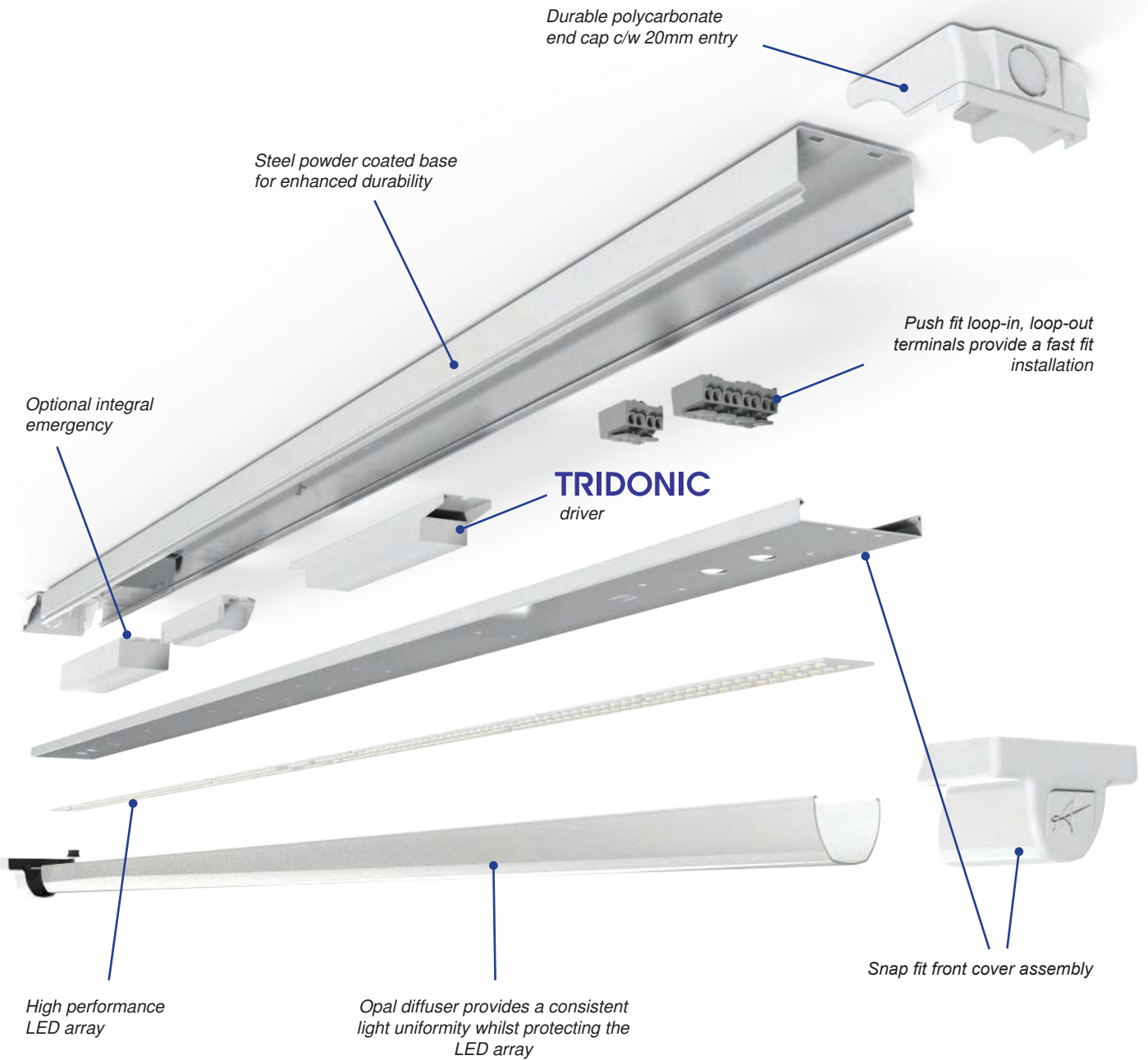
Total (Watts)	26W	47W
	34W	61W
	41W	72W
Lumens Delivered	2616lm	4939lm
	3656lm	6325lm
	4814lm	8232lm
Lm/W	100lm	105lm
	107lm	103lm
	117lm	114lm
CRI	Ra 80	
CCT	4000K	
Input	220/240V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	





# TOP LINE 6™

LED Batten







## *Project*

*Dudley College of Technology  
West Midlands, UK*

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*Endurance LED Panel p480*

# Commercial

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461

*Otto CCT LED  
Suspended Linear*



462

*Millau LED  
Suspended Linear*



463

*Vasco LED  
Suspended Linear*



464

*Sidu LED  
Suspended Linear*



465

*Eaves LED  
Recessed Linear*



467

*Gemini LED  
Surface Linear*



469

*Crescent LED  
Surface Linear*



470

*Suspended / Surface Linear*



474

*Brooklyn LED  
Bi-directional Panel*

475



*Spektrum LED CCT  
Frame*

476



*Recessed LED Panels*

484



*Recessed LED  
Panel Accessories*

486



*IP65 Defender LED  
Recessed Clean Air*

487



*Lota LED Troffer*

488



*Gridline Duo LED  
Recessed Indirect*

489



*Venus LED  
Recessed Indirect*

490



*Neptune CCT LED  
Troffer*

491



*Pluto LED*



*Designed to*  
**Deliver...**



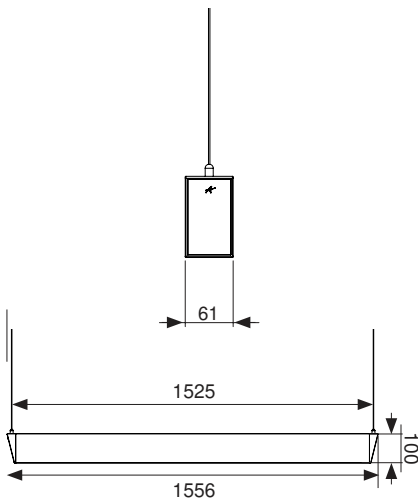
- Architectural suspended linear for office, retail and educational applications
- Die-Cast aluminum end caps
- Slim profile available in White (RAL9010) and Aluminium (RAL9006)
- Selectable CCT between 3000K and 4000K output
- Supplied bi-directional light output as standard (directional only option can be selected if required)
- Suitable for individual or continuous suspension
- Supplied c/w 1.5m suspension kit as standard
- Outperforms 28W and T5 fluorescent equivalent
- LED lifespan LM80 42,000 hours



AOTLED5/CCT



AOTLED5/W/CCT



### LED Information

Total (Watts)	45W	86W
Lumens Delivered		
Cool White	4052lm	7487lm
Warm White	3861lm	7185lm
Lm/W		
Cool White	92lm	86lm
Warm White	86lm	84lm
CRI		Ra 80
CCT		4000K 3000K
Input		230V
Hertz		50/60Hz
Operating Temp		-25°C to 50°C

	Code	Lamp	Description
<b>Bi-Directional</b>	<b>AOTLED5/CCT</b>	LED	45W - Cool White/Warm White - Aluminium
	<b>AOTLED2X5/CCT</b>	LED	86W - Cool White/Warm White - Aluminium
	<b>AOTLED5/W/CCT</b>	LED	48W - Cool White/Warm White - Matt White
	<b>AOTLED2X5/W/CCT</b>	LED	84W - Cool White/Warm White - Matt White

Options	Code	Description
	/M3	Self-Test Emergency
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)
	/MWS	Integral Microwave Sensor

Accessory	Code	Description
	AOTLED/90B	90° Corner Connector



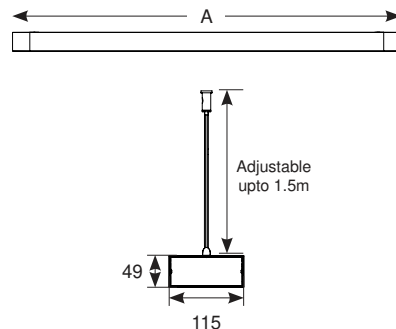
# Millau LED CCT Suspended Linear

Supplied c/w Integral Driver and Suspension Kit

462



- Architectural suspended linear for commercial applications
- Black powder coated die-cast aluminium construction provides a modern and sleek appearance
- Selectable CCT between 3000K, 4000K and 6000K output
- Internal mirrored reflector and opal diffuser provide optimum distribution and light output
- 48W Comparable to 2 x 28W T5
- 58W exceeds performance of 2 x 35W T5
- Supplied with 1.5 metre suspension kit including ceiling rose
- LED lifespan L70 50,000 hours
- Non-dimmable



Integrated switch for choice between Warm White, Cool White and Daylight



Hollow design provides ultra-modern appearance

## LED Information

Total (Watts)	38W	56W
Lumens Delivered		
Cool White	3475lm	4419lm
Warm White	3408lm	4290lm
Daylight	3492lm	4394lm
Lm/W		
Cool White	91lm	79lm
Warm White	90lm	77lm
Daylight	92lm	77lm
CRI	Ra 80	
CCT	4000K	
	3000K	
	6000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 45°C	

Code	Lamp	Description	A
AMILLED4	LED	38W - 3000K/4000K/6000K	1222
AMILLED5	LED	56W - 3000K/4000K/6000K	1622



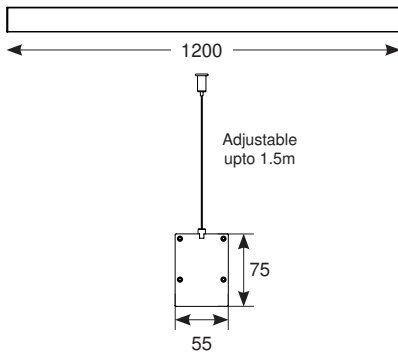


# Vasco LED CCT Bi-directional Suspended Linear

Supplied c/w Integral Driver and Suspension Kit



- Suspended linear for commercial applications
- Aluminium extruded construction with integral driver
- Supplied bi-directional light output as standard with 70% upward light and 30% downward light ratio (directional only option can be selected if required)
- 50W exceeds performance of 2x28W T5
- 60W exceeds performance of 2x35W T5
- Opal diffuser provides optimal light uniformity
- Selectable CCT between 3000K, 4000K and 6000K output
- Pre-wired with 1.5 metre cable
- Adjustable suspension points c/w suspension kit
- LED lifespan L90 36,000 hours



AVASLED



AVASLED/B



Linkable connector for continuous mounting

## LED Information

Total (Watts)	50W	60W
Lumens Delivered		
Warm White	4798lm	5308lm
Cool White	5283lm	6405lm
Daylight	4908lm	6075lm
Lm/W		
Warm White	96lm	88lm
Cool White	106lm	107lm
Daylight	98lm	101lm
CRI	Ra 80	
CCT	4000K	
	3000K	
	6000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to 45°C	

Code Lamp Description

<b>AVASLED</b>	LED	50W - Warm White/Cool white/Daylight - Aluminium
<b>AVASLED/B</b>	LED	50W - Warm White/Cool white/Daylight - Black
<b>AVASLED5</b>	LED	60W - Warm White/Cool white/Daylight - Aluminium
<b>AVASLED5/B</b>	LED	60W - Warm White/Cool white/Daylight - Black

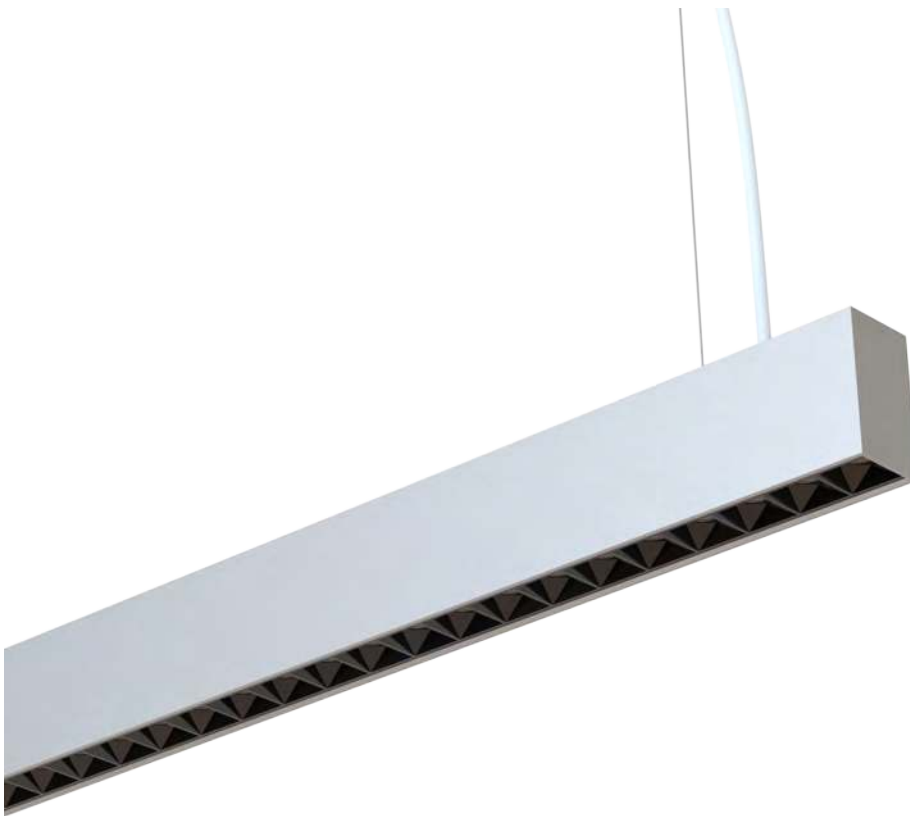
**Accessory** AVASLED/LC Continuous Linking Connector



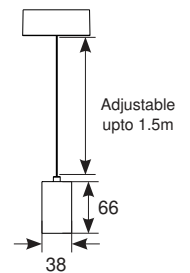
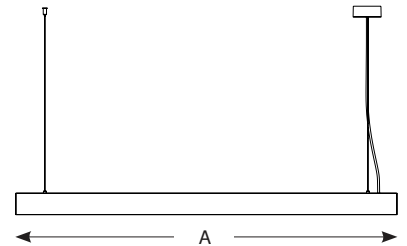
# Sidu LED Pendant

Supplied c/w Integral Driver and Suspension Kit

464



- Aluminium bi-directional suspended pendant with polycarbonate diffuser
- Suitable for office, retail and commercial applications
- Suitable for individual or continuous suspension (link bracket included)
- Slim profile available in Aluminium (RAL9006)
- 49W exceeds performance of 2x28W T5
- 60W exceeds performance of 2x49W T5
- Supplied c/w 1.5m adjustable suspension kit as standard
- Bi-directional light output split equally
- Black polycarbonate micro reflector design helps achieve UGR<6 (unified glare rating) compliant luminaire ideal for most interior lighting applications
- LED lifespan L70 50,000 hours
- 1-10V dimmable as standard



Easy connection for continuous applications



Supplied c/w 1.5m suspension kit

## LED Information

Total (Watts)	49W 60W
Lumens Delivered	
49W	5209lm
60W	6762lm
Lm/W	
49W	106lm
60W	113lm
CRI	Ra 80
CCT	4000K
Input	100/240V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description	A
ASIDLED/CW	LED	49W - Cool White	1175
ASIDLED5/CW	LED	60W - Cool White	1493

# Eaves LED Recessed Linear

Supplied c/w Remote Driver

- Architectural aluminium LED recessed linear
- Black polycarbonate micro reflector low glare design
- Suitable for office, retail and commercial applications
- Sturdy spring clips provide tight and lasting position once installed
- Smart controls and dimmable options available
- LED lifespan  
L80 81,000 hours



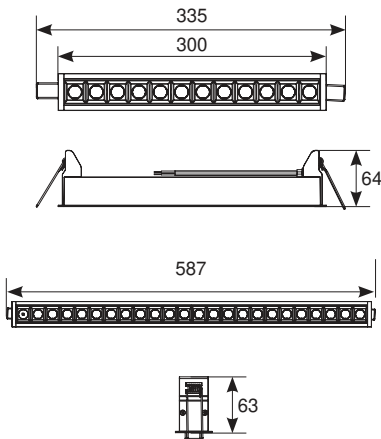
465



AEVLED300/WB/CW



AEVLED600/WB/CW



Black polycarbonate micro reflector design reduces glare

## LED Information

Total (Watts)	10W	15W
Lumens Delivered		
Cool White	954lm	1429lm
Warm White	944lm	1402lm
Lm/W		
Cool White	95lm	95lm
Warm White	94lm	93lm
Beam Angle	58°	
CRI	Ra 90	
CCT	3000K 4000K	
Input	220-240V	
Hertz	50/60Hz	
Operating Temp	-25°C to 40°C	

Code	Lamp	Description
<b>AEVLED300/WB/CW</b>	LED	10W - Cool White - 300mm
<b>AEVLED300/WB/WW</b>	LED	10W - Warm White - 300mm
<b>AEVLED600/WB/CW</b>	LED	15W - Cool White - 600mm
<b>AEVLED600/WB/WW</b>	LED	15W - Warm White - 600mm
<b>Option</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)



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**Project - Lakes College**  
Cumbria, UK

# Gemini LED Linear

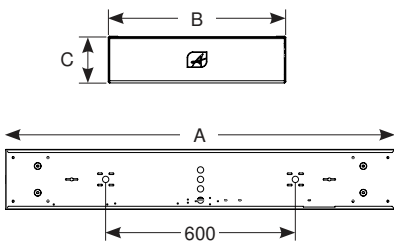
Supplied c/w Integral Driver



467

- High specification fully enclosed linear luminaire
- Microprism diffuser for enhanced photometric performance
- Robust steel construction
- Suitable for surface and suspension
- Ideal for most commercial and educational applications
- LED lifespan L70 65,000 hours

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## LED Information

Total (Watts)	40W 54W
Lumens Delivered	
40W	4448lm
54W	5291lm
Lm/W	
40W	108lm
54W	98lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description	A	B	C
<b>AGELED2X4</b>	LED	40W	1230	190	55
<b>AGELED2X5</b>	LED	54W	1510	190	55

Option	/M3	Emergency
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)

Accessory	ASK1	Suspension Kit 1.3m
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Push fit loop-in, loop-out terminals provides a fast fit installation

Steel powder coated base for enhanced durability

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High performance LED array

Matt aluminium reflector for optimum glare control

High specification PC diffuser offering excellent transmission and uniformity



# Crescent LED Surface Linear

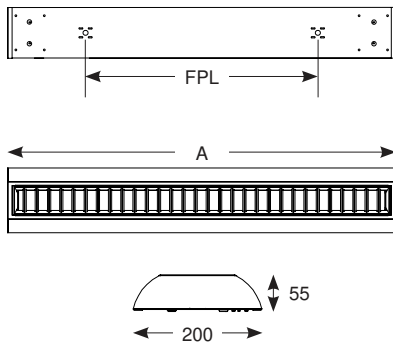
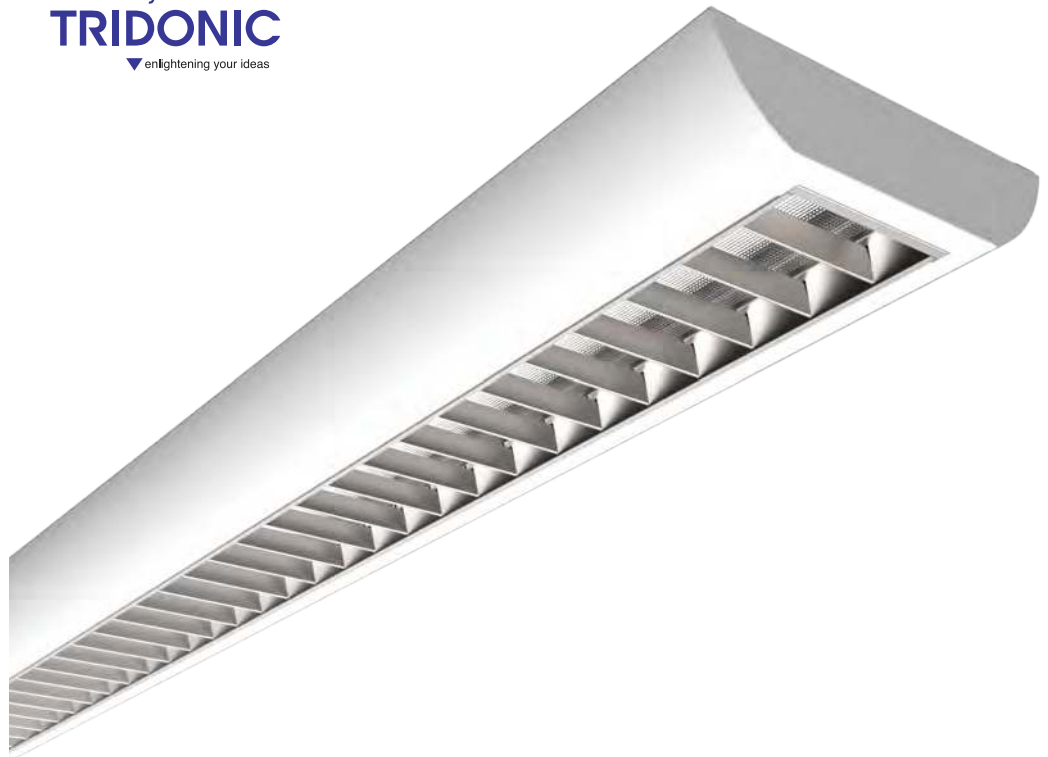
Supplied c/w Integral Driver



469

- High specification fully enclosed linear luminaire
- Steel powder coated body for enhanced durability
- Polycarbonate diffuser and polished louvre for excellent photometric performance
- Suitable for surface mounting and suspension
- 42W exceeds performance of 2x35W T5
- 51W exceeds performance of 2x49W T5
- Ideal for most commercial and educational applications
- LED lifespan L70 54,000 hours

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## LED Information

Total (Watts)	42W 51W
Lumens Delivered	
2X4	4497lm
2X5	5266lm
Lm/W	
2X4	107lm
2X5	103lm
CRI	Ra 80
CCT	4000K
Input	220V-240V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description	A	FPL
<b>ACRESLED2X4</b>	LED	42W - Cool White	1200	600
<b>ACRESLED2X5</b>	LED	51W - Cool White	1500	900

Option	Code	Description
	<b>/M3</b>	Emergency
	<b>/SM3</b>	Self-test Emergency
	<b>/DM3</b>	DALI Emergency
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

<b>Accessory</b>	<b>ASK1</b>	Suspension Kit 1.3m
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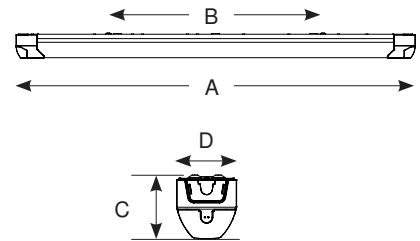
# Airbeam LED Batten

Supplied c/w Integral Driver

470



- High performance LED batten for multi-purpose applications
- Up to 56% energy saving compared to T8 fluorescent
- Powered by Philips and Tridonic drivers
- Steel body construction with powder coat finish
- Polycarbonate reeded diffuser and end caps
- Instant light output with unlimited switching
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor models
- LED lifespan L70 56,000 hours



Standard	Code	Lamp	Description	A	B	C	D
	<b>ABLED4</b>	LED	1 x 25W	1220	600	77	76
	<b>ABLED5</b>	LED	1 x 34W	1525	600	77	76
	<b>ABLED6</b>	LED	1 x 37W	1820	600	77	76
	<b>ABLED2X4</b>	LED	1 x 48W	1220	600	77	76
	<b>ABLED2X5</b>	LED	1 x 55W	1525	600	77	76
	<b>ABLED2X6</b>	LED	1 x 70W	1820	600	77	76

## Options

<b>/M3</b>	Self-Test Emergency
<b>/OCTO</b>	OCTO Smart Control
<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4 - ABLED2X6 Not Available)
<b>/MWS</b>	Integral Microwave Sensor

## LED Information

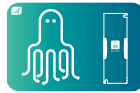
Total (Watts)	25W	48W
	34W	55W
	37W	70W
Lumens Delivered	2778lm	5517lm
	3608lm	6407lm
	4189lm	7910lm
Lm/W	116lm	106lm
	109lm	105lm
	100lm	94lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	0°C to 25°C	





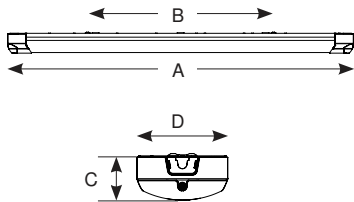
# Proline LED Surface Linear

Supplied c/w Integral Driver



471

- Modern contemporary fully enclosed high performance surface luminaire
- Up to 56% energy savings compared to T8 fluorescent
- Powered by Philips and Tridonic drivers
- Steel powder coated body with reeded opal polycarbonate diffuser and retained end caps
- Low glare and uniform light distribution
- Ideal for most commercial and educational applications
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor options
- LED lifespan L70 56,000 hours



Push Release End Cap



20mm Conduit Entry Facility



End Cap Fixing Option



Ceiling Mounting Continuous Fixings

## LED Information

Total (Watts)	25W	49W
	33W	55W
	36W	70W
Lumens Delivered	2496lm	5097lm
	3440lm	6090lm
	4316lm	8029lm
Lm/W	100lm	98lm
	104lm	100lm
	114lm	101lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	0°C to 25°C	

	Code	Lamp	Description	A	B	C	D
<b>Standard</b>	<b>APRLED4</b>	LED	1 x 25W	1220	600	73	148
	<b>APRLED5</b>	LED	1 x 33W	1525	600	73	148
	<b>APRLED6</b>	LED	1 x 36W	1820	600	73	148
	<b>APRLED2X4</b>	LED	1 x 49W	1220	600	73	148
	<b>APRLED2X5</b>	LED	1 x 55W	1525	600	73	148
	<b>APRLED2X6</b>	LED	1 x 70W	1820	600	73	148

<b>Options</b>	<b>/M3</b>	Self-Test Emergency
	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4 - APRLED2X6 Not Available)
	<b>/MWS</b>	Integral Microwave Sensor



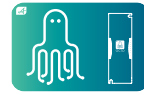
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Belfast: +44 (0) 2890 773750





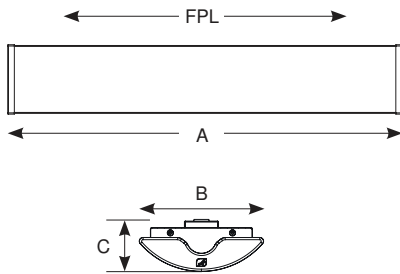
# Oxford LED Surface Linear

Supplied c/w Integral Driver



473

- Modern fully enclosed surface luminaire with curved low profile appearance
- This is a widely used style of fitting within the educational sector
- Steel body with polycarbonate diffuser and plastic end caps
- 23W exceeds performance of 1x35W T5
- 34W exceeds performance of 1x49W T5
- 38W exceeds performance of 2x28W T5
- 60W exceeds performance of 2x49W T5
- LED lifespan L70 54,000 hours
- Dimmable options



## LED Information

Total (Watts)	23W	34W
	38W	60W
Lumens Delivered	2944lm	3668lm
	4248lm	6552lm
Lm/W	128lm	108lm
	111lm	109lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to 50°C	

Code	Lamp	Description	A	B	C	FPL
<b>AOXLED4</b>	LED	23W - Cool White	1190	165	70	1084
<b>AOXLED5</b>	LED	34W - Cool White	1470	165	70	1384
<b>AOXLED2X4</b>	LED	38W - Cool White	1190	165	70	1084
<b>AOXLED2X5</b>	LED	60W - Cool White	1470	165	70	1364

Options	/M3	Emergency
	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)



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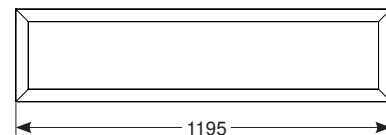


# Brooklyn LED Bi-Directional Panel

Supplied c/w Integral Driver and Suspension Kit



- High performance bi-directional suspendable LED panel
- Integral LED driver provides a unique aesthetically pleasing design
- White anodised aluminium frame
- Supplied c/w 1.2m suspension kit as standard
- LED lifespan L70 50,000 hours
- 1-10V dimmable as standard



### LED Information

Total (Watts)	36W
Lumens Delivered	3788lm
Lm/W	105lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
ABROLED	LED	36W - Cool White



# Spektrum LED CCT Panel Frame

Supplied c/w Integral Driver



475

- High performance minimalist LED panel frame for commercial and architectural applications
- Hollow illuminated frame allows installation of standard ceiling panel to sit inside frame and level with grid
- Integral switch allows the installer a choice of 3000K, 4000K and 6500K colour temperature options
- LED lifespan  
L70 50,000 hours



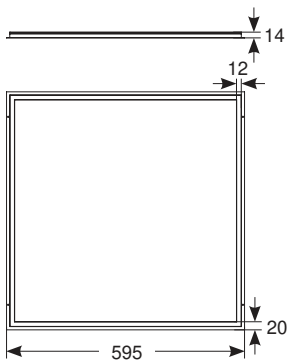
Cool White



Daylight



Warm White



## LED Information

Total (Watts)	28W
Lumens Delivered	
Cool White	2995lm
Warm White	2877lm
Daylight	3000lm
Lm/W	
Cool White	111lm
Warm White	103lm
Daylight	103lm
CRI	Ra 80
CCT	3000K 4000K 6500K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
<b>ASPELED/60/CCT</b>	LED	28W - Warm White/ Cool white / Daylight

Options		
<b>/M3</b>	Emergency	
<b>/SM3</b>	Self-Test Emergency	
<b>/DM3</b>	Dali Emergency	
<b>/OCTO</b>	OCTO Smart Control	
<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)	



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# Infinite LED Recessed Panel

Supplied c/w Remote Driver

476



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**TRIDONIC**  
▼ enlightening your ideas



Surface Mounting Frame for LED Panel  
(shown with Panel Pod installed)

- High performance LED flat panel which outperforms 3x14W T5
  - UGR<19 (unified glare rating) compliant luminaire ideal for most interior lighting applications
  - Maintenance free instant light output and unlimited switching
  - Panel Pod Self-Test emergency option
  - Panel Pod sensor option
  - TPb as standard
  - LED lifespan L70 40,000 hours
  - Dimmable options
- \* 7 Year Warranty applies to fittings registered online (5 Year Warranty for unregistered fittings)

Dimensions (mm)  
L595 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

Code	Lamp	Description
<b>AIRMLD/CW</b>	LED	35W - Cool White
<b>Emergency</b> AIRMLD/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
<b>Sensor</b> AIRMLD/POD/MWS		1W - Microwave Sensor
<b>Option</b> /OCTO		OCTO Smart Control
/DD		Digital Dimming (DD1/DD2/DD3/DD4)
<b>Accessories</b> AIRMLD/SMF		Surface Mounting Frame (L600mm x W600mm x D75mm)
AIRMLD/PRK		Plasterboard Recessing Kit (Cut-out 615x615mm)
AIRMLD/SK		2 Metre Suspension Kit
AEQTCC/600		Equaliser 600x600 Temperature Regulator

## LED Information

Total (Watts)	35W
Lumens Delivered	3300lm
Lm/W	94lm
CRI	Ra 80
CCT	4750K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 40°C



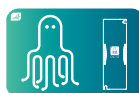
\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications



# Endurance LED TPa UGR<19 Recessed Panel

Supplied c/w Remote Driver

478



Surface Mounting Frame for LED Panel (shown with Panel Pod Emergency installed)



- High performance maintenance free LED panel
- TPa as standard
- UGR<19 (unified glare rating) compliant luminaire assisting to eliminate glare for visual comfort
- panel outperforms 3x14W T5
- Cool white, warm white and daylight options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Low glare and even light distribution for multiple applications
- Panel Pod Self-Test emergency option
- Panel Pod sensor option
- Surface mounting frame option
- Powered by Philips
- LED lifespan L90 52,000 hours

**AERMLED3/60 Dimensions (mm)**  
L595 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

Code	Lamp	Description
<b>AERMLED3/60/CW</b>	LED	29W - Cool White
<b>AERMLED3/60/WW</b>	LED	29W - Warm White
<b>AERMLED3/60/DL</b>	LED	29W - Daylight

High Output	Code	Lamp	Description
	<b>AERMLED3/HO/60/CW</b>	LED	29W - Cool White
	<b>AERMLED3/HO/60/WW</b>	LED	29W - Warm White
	<b>AERMLED3/HO/60/DL</b>	LED	29W - Daylight

<b>Emergency</b>	<b>AIRMLED/POD/3NM/ST</b>	LED	5W - Panel Pod Self-Test Emergency
<b>Sensor</b>	<b>AIRMLED/POD/MWS</b>		1W - Microwave Sensor

<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD3)*

\* DD2/DD4 available with alternative control gear

<b>Accessories</b>	<b>AIRMLED/SMF</b>	Surface Mounting Frame (L600mm x W600mm x D75mm)
	<b>AIRMLED/PRK</b>	Plasterboard Recessing Kit (Cut-out 615x615mm)
	<b>AERMLED/SK</b>	2 Metre Suspension Kit
	<b>AEQTCC/600</b>	Equaliser 600x600 Temperature Regulator

## LED Information

Total (Watts)	29W	HO
<b>Lumens Delivered</b>		
Cool White	2953lm	3742lm
Warm White	2873lm	3610lm
Daylight	2938lm	3725lm
<b>Lm/W Cool White</b>	102lm	129lm
<b>Lm/W Warm White</b>	99lm	125lm
<b>Lm/W Daylight</b>	101lm	128lm
<b>CRI</b>	Ra 80	
<b>CCT Cool White</b>	4000K	
<b>CCT Warm White</b>	3000K	
<b>CCT Daylight</b>	6000K	
<b>Input</b>	230V	
<b>Hertz</b>	50Hz	
<b>Operating Temp</b>	-20°C to 40°C	



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications





# Panel Pod Compatible

Quickly and easily convert standard panel to either Self-Test Emergency or Microwave Sensor



LED board placement creates a more uniform distribution of light with no dark spots or shadowing.  
LED lifespan L70 30,000 hours

Quick release POD cover for quick and easy installation of the Ansell self-test emergency Panel Pod

Philips CertaDrive LED driver

0.2mm steel back plate providing support and rigidity

Panel POD aperture. Panel POD compatible for all emergency and microwave sensor requirements and self-test as standard

0.188mm High efficient regulator sheet maximizing performance efficiency

5mm Pearl Wool supporting all panel layers into position

2mm MS LGP guarantee to maintain stipulated CCT throughout the lifetime of the product

Latest high efficiency SMD LED array

TP(a) fire retardant diffuser as standard suitable for all applications

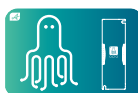
Reinforced steel powder coated frame for added rigidity



# Endurance LED TPa Recessed Panel

Supplied c/w Remote Driver

480



Surface Mounting Frame for LED Panel (shown with Panel Pod Emergency installed)



- High performance maintenance free LED panel
- TPa as standard
- 30W panel outperforms 3x14W T5
- Low glare and even light distribution for multiple applications
- Cool white, warm white and daylight options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Panel Pod Self-Test emergency option
- Panel Pod sensor option
- Surface mounting frame option
- Powered by Philips
- LED lifespan L90 52,000 hours

AERMLED/260 Dimensions (mm)  
L595 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

Code	Lamp	Description
AERMLED2/60/CW	LED	29W - Cool White
AERMLED2/60/WW	LED	29W - Warm White
AERMLED2/60/DL	LED	29W - Daylight

<b>Emergency</b>	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
<b>Sensor</b>	AIRMLED/POD/MWS		1W - Microwave Sensor

<b>Options</b>	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD3)*

\* DD2/DD4 available with alternative control gear

<b>Accessory</b>	AIRMLED/SMF	Surface Mounting Frame (L600mm x W600mm x D75mm)
	AIRMLED/PRK	Plasterboard Recessing Kit (Cut-out 615x615mm)
	AERMLED/SK	2 Metre Suspension Kit
	AEQTCC/600	Equaliser 600x600 Temperature Regulator

## LED Information

Total (Watts)	29W
Lumens Delivered	
Cool White	3092lm
Warm White	2891lm
Daylight	3046lm
Lm/W Cool White	107lm
Lm/W Warm White	100lm
Lm/W Daylight	105lm
CRI	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
CCT Daylight	6000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications



# Endurance LED TPa Recessed Panel

Supplied c/w Remote Driver



- High performance maintenance free LED panel
- TPa as standard
- 60W panel outperforms 3x28W T5
- Cool white, warm white and daylight options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Low glare and even light distribution for multiple applications
- Panel Pod Self-Test emergency option
- Panel Pod sensor option
- Powered by Philips
- LED lifespan L90 52,000 hours

**AERMLED/120 Dimensions (mm)**  
L1195 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor



Code	Lamp	Description
<b>AERMLED2/120/CW</b>	LED	58W - Cool White
<b>AERMLED2/120/WW</b>	LED	58W - Warm White
<b>AERMLED2/120/DL</b>	LED	58W - Daylight
<b>Emergency</b> AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
<b>Sensor</b> AIRMLED/POD/MWS		1W - Microwave Sensor
<b>Option</b> /DD		Digital Dimming (DD1/DD2/DD3)

<b>Accessory</b> AERMLED/120/SMF	1200x600 Surface Mounting Frame
----------------------------------	---------------------------------

### LED Information

Total (Watts)	58W
<b>Lumens Delivered</b>	
Cool White	5780lm
Warm White	5363lm
Daylight	5646lm
Lm/W Cool White	100lm
Lm/W Warm White	93lm
Lm/W Daylight	97lm
<b>CRI</b>	<b>Ra 80</b>
CCT Cool White	4000K
CCT Warm White	3000K
CCT Daylight	6500K
<b>Input</b>	<b>230V</b>
Hertz	50/60Hz
<b>Operating Temp</b>	<b>-20°C to 40°C</b>



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications

# Endurance LED TPa Recessed Panel

Supplied c/w Remote Driver



- High performance maintenance free LED panel
- TPa as standard
- Cool white, warm white and daylight options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Low glare and even light distribution for multiple applications
- Panel Pod Self-Test emergency option
- Panel Pod sensor option
- Powered by Philips
- LED lifespan L90 52,000 hours



**AERMLED2/30 Dimensions (mm)**  
L1195 x W295 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

## LED Information

Total (Watts)	29W
Lumens Delivered	
Cool White	3234lm
Warm White	3187lm
Daylight	3211lm
Lm/W Cool White	112lm
Lm/W Warm White	110lm
Lm/W Daylight	111lm
CRI	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
CCT Daylight	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
<b>AERMLED2/30/CW</b>	LED	29W - Cool White
<b>AERMLED2/30/WW</b>	LED	29W - Warm White
<b>AERMLED2/30/DL</b>	LED	29W - Daylight

<b>Emergency</b>	<b>AIRMLED/POD/3NM/ST</b>	LED	5W - Panel Pod Self-Test Emergency
<b>Sensor</b>	<b>AIRMLED/POD/MWS</b>		1W - Microwave Sensor

<b>Options</b>	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3)

<b>Accessory</b>	<b>AERMLED/SK</b>	2 Metre Suspension Kit
	<b>AERMLED/30/SMF</b>	1200x300 Surface Mounting Frame



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications



# Panel Pod Emergency and Panel Pod Sensor

For Infinite and Endurance LED Panels



AIRMLED/POD/3NM/ST



**Panel Pod™**  
**Emergency**



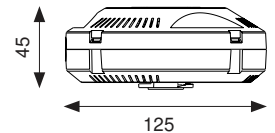
AIRMLED/POD/MWS



**Panel Pod™**  
**Sensor**

## Emergency Panel Pod

- Integral Self-Test emergency pod to convert any new Infinite LED and Endurance LED panel to emergency, instantly
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Simple, quick twist and lock fixing
- Supplied with a pre-wired 1 Metre cable for ease of installation
- Tri-colour LED shows green for healthy running condition, red/flashing for fault conditions and white for emergency operation
- **UK Patent No. GB2522285**
- **European Patent No. 15165652.7**
- **Irish Patent No. 2015/0128**
- **EC Registered Design No 002712232-0001**

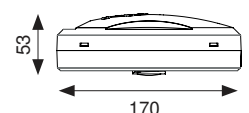


## LED Information

Total (Watts)	5W
Lumens Delivered	189lm
Beam Angle	120°
CCT	6500K
Input	230V
Operating Temp	0°C to 45°C

## Sensor Panel Pod

- Converts Ansell Infinite and Endurance LED panels to microwave sensor operation
- Provides detection area of 360° with a detection angle of 120°
- Simple twist and lock connection
- Pre-wired 300mm 4-core flex for easy installation
- Fast and efficient installation
- Adjustable time delay and distance
- **UK Patent Applied For No. 1504205.4**
- **EC Registered Design No 002712232-0001**



Code	Lamp	Description
<b>Emergency</b> AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
<b>Sensor</b> AIRMLED/POD/MWS		1W - Microwave Sensor

# Panel Pod



## **Pre-wired 1 metre cable \***

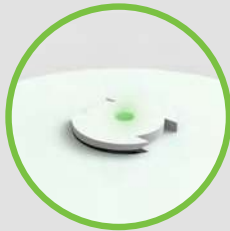
*As standard ensuring a fast and easy installation*

*\* 300mm for Panel Pod Sensor*



## **Twist and Lock Connection**

*Provides a secure connection and easy installation*



## **Self-Test as standard \***

*Provides instant indication to status of emergency module and lamp, negating the need for manual monthly and annual checks*

*\* Panel Pod Emergency only*



## **Detection Area and Angle**

*Provides detection area of 360° with a detection angle of 120°*



**\*\* Only one Panel Pod can be attached to the back of individual panels\*\***

# Defender LED IP65 Clean Air Recessed Modular

Supplied c/w Integral Driver

486



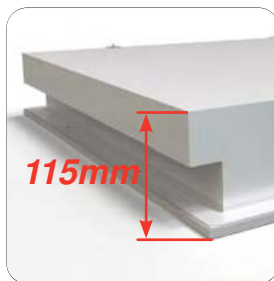
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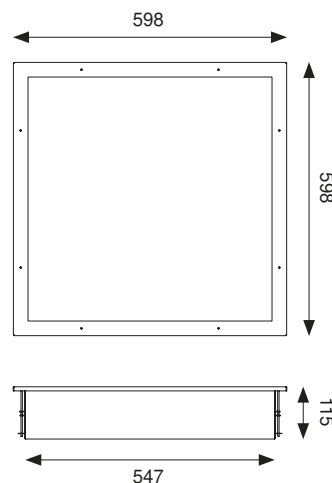
- Sealed LED luminaire to endure arduous environments
- High quality steel housing with welded frame and secured by Easy Fix style brackets
- Frame fitted with TP(a) rated diffuser providing excellent diffusion and outstanding light transmission
- Suitable for areas such as laboratories, hospitals, clean rooms, kitchens and showers
- LED lifespan L70 56,000 hours



Easy Fix style bracket



115mm depth



## LED Information

Total (Watts)	49W
Lumens Delivered	4660lm
Lm/W	95lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

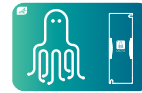
Code	Lamp	Description
<b>ADELED</b>	LED	49W - Cool White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)





# Lota LED CCT Troffer

Supplied c/w Integral Driver



487

- High performance indirect recessed luminaire
- UGR<19 (unified glare rating) compliant luminaire ideal for most interior lighting applications
- Ideal for office or commercial applications
- Selectable CCT between 3000K, 4000K and 6000K output
- Exceeds performance of 2x40W PL-L
- Powder coated steel construction
- LED lifespan L70 30,000 hours
- TP(a) as Standard



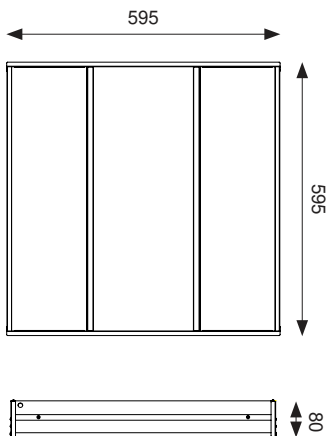
Cool White



Daylight



Warm White



## LED Information

Total (Watts)	29W
Lumens Delivered	
Warm White	3051lm
Cool White	3195lm
Daylight	3178lm
Lm/W	
Warm White	105lm
Cool White	110lm
Daylight	110lm
CRI	Ra 80
CCT	
Warm White	3000K
Cool White	4000K
Daylight	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

Code Lamp Description

**ALOTLED** LED 29W - Cool White/ Warm White/ Daylight

<b>Options</b>	<b>/M3</b>	Emergency
	<b>/SM3</b>	Self-Test Emergency
	<b>/DM3</b>	DALI Emergency
	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)



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# Gridline Duo LED Indirect Recessed Modular

Supplied c/w Integral Driver, Louvre and Opal Diffuser



Visiluxe Diffuser Fitted

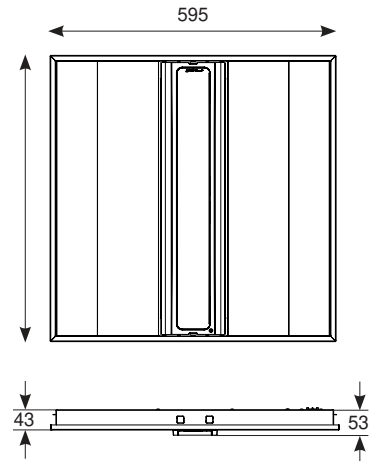
**GRIDLINE™**  
DUO

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Chrome Trim Louvre Fitted

- Shallow 2-In-1 LED direct / indirect recessed luminaire with outstanding efficiency characteristics
- Each fitting supplied with chrome central louvre and high transmission diffuser options (high gloss black or white central louvres available as optional accessories)
- Up to 70% saving compared to 2x55W PL-L
- Quick access termination point for rapid installation
- Instant light output and unlimited switching
- Self-test emergency as standard
- Small unobtrusive microwave sensor option
- CorridorFUNCTION for dimmable microwave sensor options
- LED lifespan L70 56,000 hours



Code	Lamp	Description
<b>AGDLED</b>	LED	37W - Cool White
<b>Options</b>	<b>/M3</b>	Self-Test Emergency
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)
	<b>/MWS</b>	Integral Microwave Sensor
<b>Accessories</b>	<b>AGDLED/WLA</b>	High Gloss White Louvre Trim
	<b>AGDLED/BLA</b>	High Gloss Black Louvre Trim
	<b>AIRMLD/PRK</b>	Plasterboard Recessing Kit (Cut-out 608x608mm)

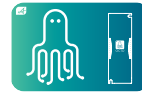
**LED Information**

Total (Watts)	37W
Lumens Delivered	3300lm
Lm/W	89lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C



# Venus LED Indirect

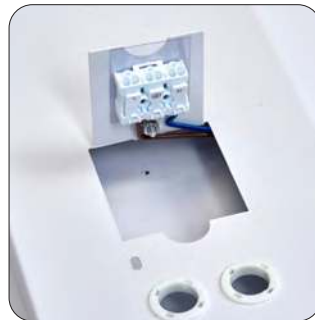
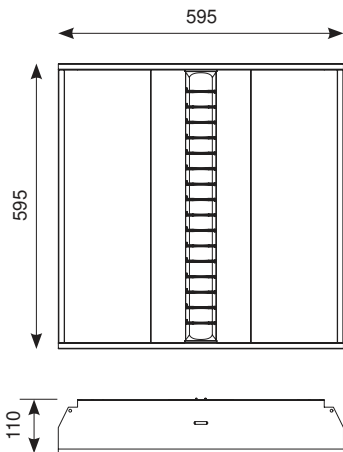
Supplied c/w Integral Driver



489

- High performance indirect recessed luminaire with outstanding efficiency characteristics
- Comparable performance to 3x14W T5
- Instant light output and unlimited switching
- Quick access termination point for ease of installation
- Powder coated welded steel box construction for lay in applications only
- LED lifespan L70 54,000 hours

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**Quick Access Termination Point (Push Fit Terminals)**



**Mirrored Internal Reflector For Enhanced Distribution**

## LED Information

Total (Watts)	40W
Lumens Delivered	3926lm
Lm/W	98lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
<b>AVENLED</b>	LED	40W - Cool White

Options		
/M3	Emergency	
/OCTO	OCTO Smart Control	
/DD	Digital Dimming (DD1/DD2/DD3/DD4)	

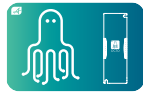
Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Neptune LED CCT Troffer

Supplied c/w Integral Driver

490



Cool White



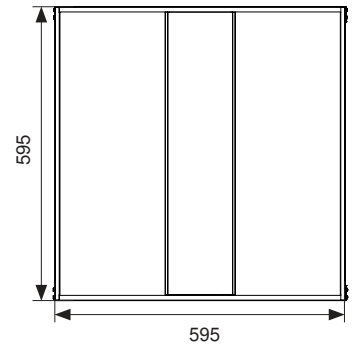
Daylight



Warm White

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- High performance indirect recessed luminaire
- Selectable CCT between 3000K, 4000K and 6000K output
- Ideal for office or commercial applications
- Exceeds performance of 2 x 40W PL-L
- Powder coated steel construction
- LED lifespan L70 50,000 hours



### LED Information

Total (Watts)	36W
Lumens Delivered	
Warm White	3564lm
Cool White	3796lm
Daylight	3767lm
Lm/W	
Warm White	99lm
Cool White	108lm
Daylight	102lm
CRI	Ra 80
CCT	
Warm White	3000K
Cool White	4000K
Daylight	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

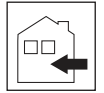
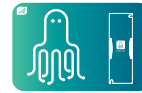
Code	Lamp	Description
ANEPLD	LED	36W - Warm White/Cool White/Daylight

Options	/M3	Emergency
	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)



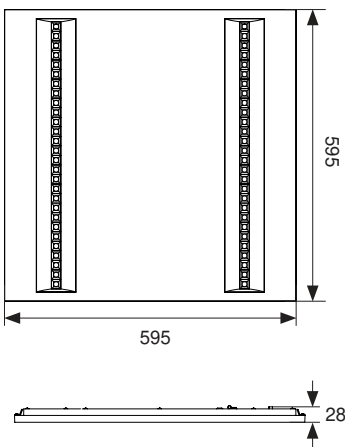
# Pluto LED

Supplied c/w Integral Driver



491

- Stylish LED recessed modular
- UGR>14 (unified glare rating) compliant Ideal for office, school, retail and commercial applications
- Exceeds performance of 2 x 55W PL-L
- LED lifespan L70 50,000 hours



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### LED Information

Total (Watts)	35W
Lumens Delivered	3591lm
Lm/W	112lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



Code	Lamp	Description
<b>APLUED</b>	LED	35W - Cool White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/OCTO</b>	OCTO Smart Control
	<b>/DD</b>	Digital Dimming (DD1/DD2/DD3/DD4)

Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750







## *Project*

*Coxmoor Golf Club -  
Sutton-in-Ashfield, UK*



Guardian LED

p501

# Emergency

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*IP65 Bulkheads*



*Exit Boxes*



*Suspended Edge*



*IP65 Surface/Recessed  
Edge*





*Twin Spots*



*LED Emergency Downlights*



*Panel Pod Emergency*



*Emergency Lighting Packs*



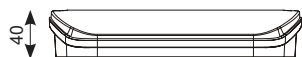
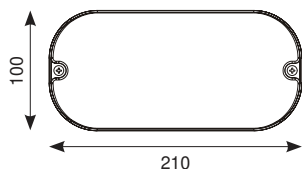
*Designed to*  
***Deliver...***

# Swift LED Bulkhead

Supplied c/w Legend and Integral Driver



- Small and unobtrusive LED bulkhead
- Supplied with self-adhesive legend
- Optic design provides optimum performance for escape route lighting
- Side and rear cable entries
- Screwless gear tray for ease of installation
- Viewing distance 17 metres



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself.
- \*\* 0.5 lux minimum must be used for all areas larger than 60m<sup>2</sup>, the minimum value is to be measured across the area excluding 0.5m border around edge of room.
- \*\*\* Explanation of terms;  
**Transverse – wall** - distance to wall from to side of fitting,  
**Transverse – transverse** - side to side spacing,  
**Axial – wall** - distance to wall from end of fitting,  
**Axial – axial** - end to end spacing.

Escape route 2 metres wide (1 Lux minimum) *					
***					
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	1.48	5.9	1.48	5.8	
4	1.2	4	0.72	4.5	
6	-	-	-	-	

Open (Anti-Panic) area (0.5 Lux Minimum) **					
***					
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	2.35	6	1.98	6	
4	2.24	7.5	1.98	6	
6	2.24	5.9	1.98	5.79	

## LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	69lm
Standard Mode	163lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

Code	Lamp	Description
<b>ASWTLED/3M</b>	LED	3W Maintained / Non-Maintained

<b>Accessory</b>	<b>ASBP/1</b>	3.6V 600mAh Ni-Cd Replacement Battery
------------------	---------------	---------------------------------------



# Simple Self-Test



## What is Self-Test?

Self-Test is an intelligent emergency system, integral to each luminaire, that conducts routine functional and duration testing, in-line with the relevant standards and therefore offering full compliance. Self-test eliminates the requirements for manual testing; automatic fault indicators allow for speedy, accurate maintenance.

## How it Works

When the unit is first installed the fitting will randomly select a test date of between 200 and 365 days. Once this date is set it will continue to test at the same time every year for a full 3 hour test. Once the product has been on charge for 24 hours, the luminaire will illuminate for 5 seconds for test purposes. Every 30 days the installation will be tested for 10 minutes and the luminaire will show either regular function, or a fault as shown in the diagram below.



### Test Mode

The luminaire will illuminate during test conditions



### Regular Function

The luminaire will show a constant green LED in normal conditions



### Battery Failure

(Constant red LED)

The luminaire will show a red light to indicate the failure (please see below for full diagnosis)



### System Failure

(Slow flashing red LED)

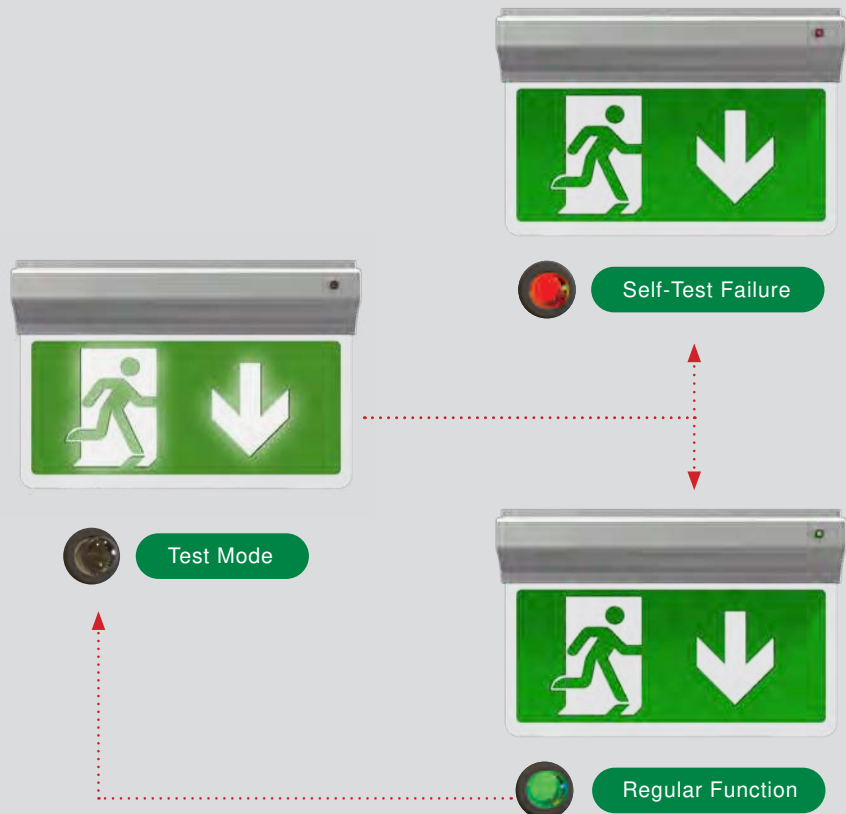
If the system fails the 10 minute / 3 hour duration test then the red LED will flash slowly



### Lamp / LED Failure

(Fast flashing red LED)

If the lamp / LED's fail the red light will flash quickly



# Self-Test Benefits

## ✓ Convenience

Test results are carried out by observation rather than manually testing each fitting. No need to isolate mains supply to test, ensuring minimal disruption to normal running of office and/or site.

## ✓ Compliance

No possibility of missed scheduled tests; automatic monthly and annual tests provides building compliance, ensuring adherence to all relevant emergency and automatic testing standards.

## ✓ Cost Saving

No requirements for key switches or data cables, Dedicated maintenance personnel are required only to record and rectify faults; not initiate testing and inspection.

## ✓ Easy Fault Identification

Bi-colour indicators display system status. Green LED indicates test complete and a healthy system  
Constant red LED indicates a battery failure  
Slow flashing red LED indicates system / duration test failure  
Fast flashing red LED indicates Lamp / LED failure

# Self-Test Range



501 Guardian LED Bulkhead



502 Kite LED Bulkhead



503 Centurion LED Bulkhead



504 Osprey LED Bulkhead



506 EndLED Lithium Exit sign



507 Encore LED Exit sign



508 Watchman LED Lithium Exit sign



510 Eagle 3-In-1 LED Exit sign



511 Kestrel LED Suspended Exit sign



512 Razzo LED Lithium Recessed Exit sign



513 Harrier LED IP65 Blade Exit sign



514 IP65 Owl LED Twin Spot



517 Condor LED Twin Spot



518 Signal LED Pro Lithium Emergency Downlight



522 Raven LED Emergency Downlight



523 Merlin LED Emergency Downlight



525 Falcon LED Surface Emergency Downlight



526 Panel Pod Emergency

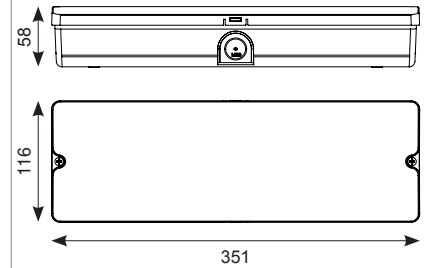
# Monarch LED Lithium Bulkhead

Supplied with Legend and Integral Driver

500



- Ultra-slim profile LED polycarbonate self-test bulkhead
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Supplied with self-adhesive legend
- 20mm side, end and rear cable entries
- Hinged screwless gear tray for ease of installation
- Viewing distance 18 metres



Escape route 2 metres wide (1 Lux minimum) *					
***					
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	1.9	5	1.8	5	
4	0.6	2.8	0.5	2.8	
6	-	-	-	-	

Open (Anti-Panic) area (0.5 Lux Minimum) **					
***					
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	2.2	5.5	2.2	5.5	
4	2.8	6	2.8	6	
6	1.5	6	1.5	6	

	Code	Lamp	Description
<b>Self-Test</b>	<b>AMOLED/LI/3M/ST</b>	LED	3W Maintained / Non-Maintained
<b>Accessory</b>	<b>ASBP/18</b>	3.2V 1500mAh Li-FePO4 Lithium Replacement Battery	

## LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	77lm
Standard Mode	119lm
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5C° to 40C°



# Guardian LED Bulkhead

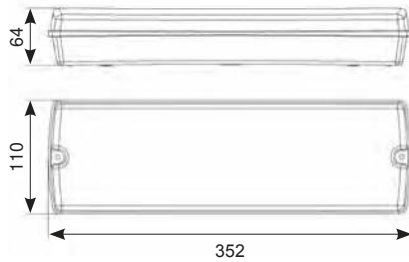
Supplied c/w Legend and Integral Driver



- Ultra-slim profile LED polycarbonate bulkhead
- Supplied with self-adhesive legend
- 20mm side, end and rear cable entries
- Hinged screwless gear tray for ease of installation
- Viewing distance 18 metres



AGLED/KIT  
With Guardian Installed



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

	Escape route 2 metres wide (1 Lux minimum) *				
	***	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	1.7	5.7	2.9	6	
4	1.3	5.6	3	5	
6	-	-	-	-	

	Open (Anti-Panic) area (0.5 Lux Minimum) **				
	***	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	3	7.5	3	7.5	
4	3.8	8	3.8	8	
6	3.8	8	3.8	8	

## LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	144lm
Standard Mode	180lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

Code	Lamp	Description
AGLED/3M	LED	3W Maintained / Non-Maintained

<b>Accessories</b>	AGLED/KIT	Semi-Recessing Kit - White
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	ASBP/2	3.6V 1500mAh Replacement Ni-Cd Battery
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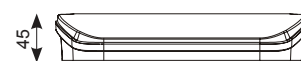
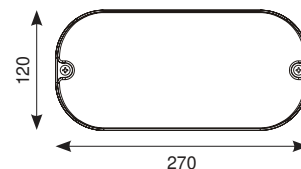
# Kite LED Emergency Bulkhead

Supplied with Legend and Integral Driver

502



- Modern ultra-slim profile
- IP65 LED polycarbonate bulkhead
- Self-test as standard
- Aesthetically designed for modern appearance
- Supplied with self-adhesive legend
- 20mm side and rear cable entries
- Hinged screwless gear tray for ease of installation
- Viewing distance 20 metres



		Escape route 2 metres wide (1 Lux minimum) *				
		***		***		
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial		
2.5	1.5	5.5	1.3	5.5		
4	1.3	5	1.4	6		
-	-	-	-	-		

		Open (Anti-Panic) area (0.5 Lux Minimum) **				
		***		***		
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial		
2.5	2.1	6	2.1	6		
4	2.4	7	2.4	7		
6	2.4	7	2.4	7		

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

## LED Information

Total (W)	4W
Lumens Delivered	
Emergency Mode	79lm
Standard Mode	182lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
Self-Test	AKTLED/3M/ST	LED	4W Maintained / Non-Maintained
Accessory	ASBP/1		3.6V 600mAh Ni-Cd Replacement Battery



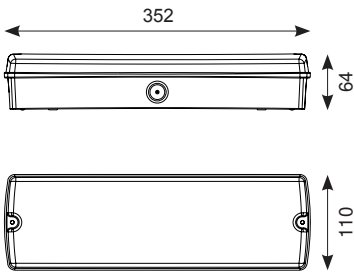


# Centurion LED Bulkhead

Supplied c/w Legend and Integral Driver



- High lumen performance LED polycarbonate bulkhead for increased spacings
- Supplied with self-adhesive legend
- Self-test as standard
- Outperforms 8W T5 and exceeds performance of Guardian by 56%
- 20mm conduit entry positions and rear terminal box entry
- Hinged screwless gear tray for ease of installation
- Viewing distance 18 metres
- 50,000 hours average lifetime



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

Escape route 2 metres wide (1 Lux minimum) *					
	***	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	1.7	7	2	6.8	
4	2	8.5	2.5	8	
6	-	-	-	-	

Open (Anti-Panic) area (0.5 Lux Minimum) **					
	***	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	2.5	7.5	2.5	7.5	
4	3.5	9	3.5	9	
6	3.6	9.5	3.6	9.5	

## LED Information

Total (W)	7W
Lumens Delivered	
Emergency Mode	151lm
Standard Mode	254lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
<b>Self-Test</b>	<b>ACELED/3M/ST</b>	LED	7W Maintained / Non-Maintained
<b>Accessory</b>	<b>ASBP/2</b>		3.6V 1500mAh Ni-Cd Replacement Battery



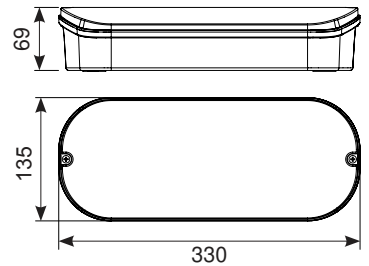
Warrington: +44 (0) 1942 433333  
 Belfast: +44 (0) 2890 773750



# Osprey High Rack LED Bulkhead

Supplied c/w Integral Driver

504



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

Mounting Height (M)	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
10	-	-	5	20
15	-	-	1.2	15.5

Mounting Height (M)	Open (Anti-Panic) area (0.5 Lux Minimum)**			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
10	5.2	14.5	5.2	18
15	5	17	5	22

	Code	Lamp	Description
<b>Self-Test</b>	AOSLED/3M/ST	LED	9W Maintained / Non-Maintained - Self-Test
<b>Cold Store</b>	AOSLED/3M/CS	LED	22W Maintained / Non-Maintained - Self-Test

<b>Accessories</b>	ASBP/15	4.8V 4Ah Ni-Cd Replacement Battery	
	ASBP/16	4.8V 4Ah Ni-Cd Replacement Battery (for use with Cold Store fitting)	

## LED Information

Total (W)	9W
	22W
<b>Lumens Delivered</b>	
Emergency Mode	380lm
Standard Mode	438lm
<b>Lumens Delivered Cold Store</b>	
Emergency Mode	383lm
Standard Mode	554lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°
Cold Store	-30C° to 5C°

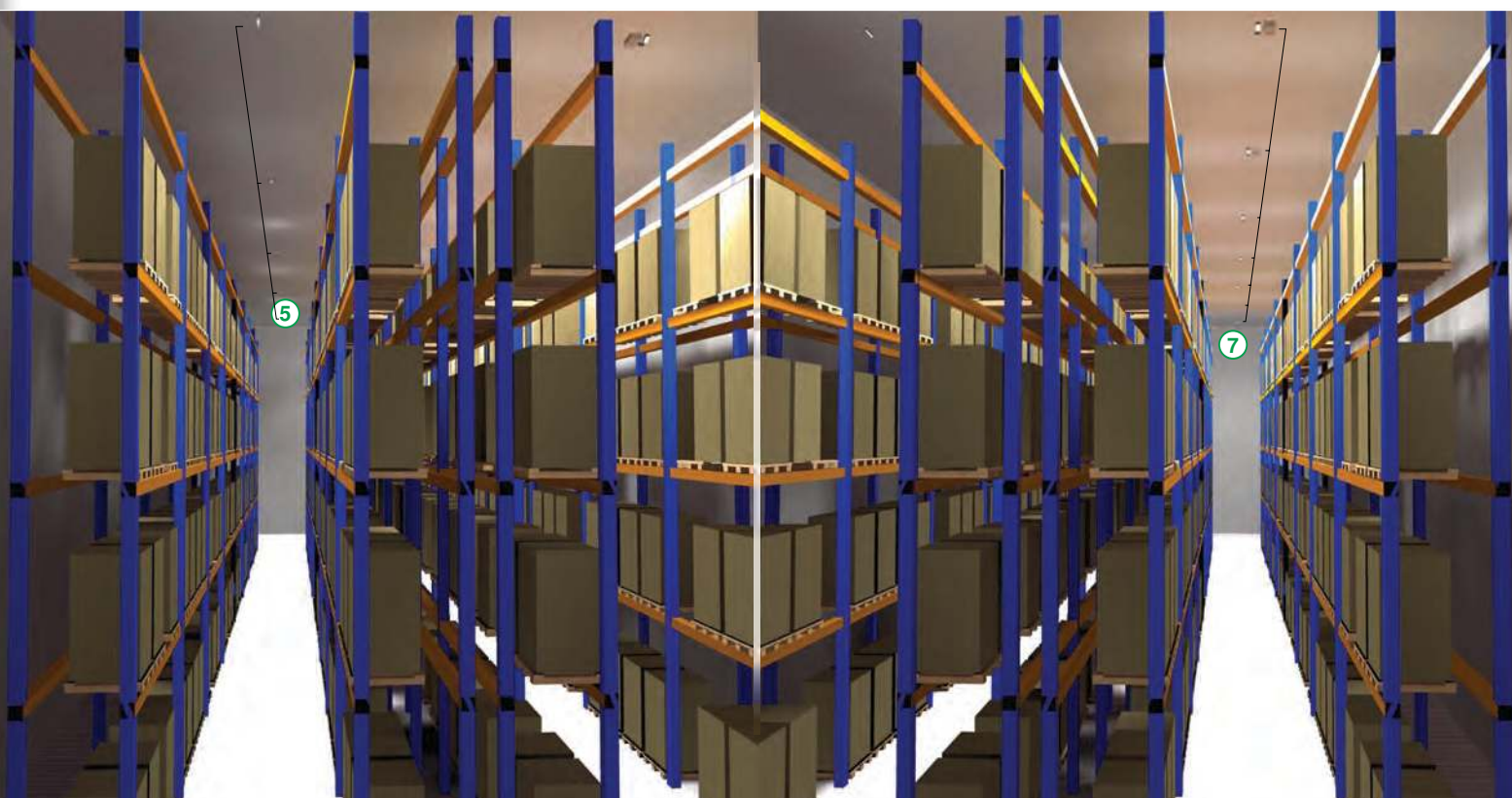


# Osprey LED



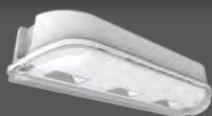
## High Rack Bulkhead vs. Traditional Halogen Twin Spot

Warehouse racking aisle scheme (15 metre ceiling height and 2 metre aisle width)



### Osprey LED 9W

5 fittings to reach required lux level



### Halogen Twinspot 2x20W

7 fittings to reach required lux level



✔ Quick and easy installation

✔ Self-Test as standard

✔ Maintenance free

✔ Better spacing ratio for less fittings

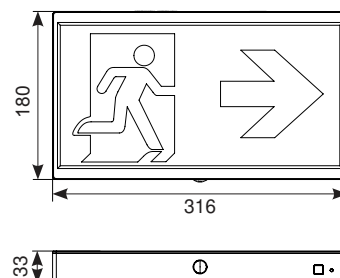
# EndLED Lithium Exit Sign

Supplied c/w Integral Driver and Legend

506



- Low profile compact and modern polycarbonate LED exit sign
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Self-test emergency as standard
- Supplied with all legend options - arrow down, arrow up and arrow left/right
- 20mm top and rear cable entries
- Viewing distance 30 metres



	Code	Lamp	Description
<b>Self-Test</b>	<b>AENLED/LI/3M/ST</b>	LED	2.5W - Maintained / Non-Maintained - White
	<b>AENLED/LI/3M/ST/B</b>	LED	2.5W - Maintained / Non-Maintained - Black
<b>Accessory</b>	<b>ASBP/18</b>	3.2V 1500mAh Li-FePO4 Lithium Replacement Battery	

## LED Information

Total (W)	2.5W
Lumens Delivered	
Emergency mode	18lm
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5C° to 40C°



# Encore LED Exit Sign

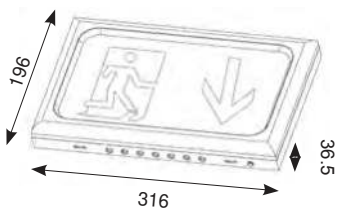
Supplied c/w Legends and Integral Driver



- Ultra slim modern LED exit sign
- Self-test option
- Neat picture frame appearance compared to conventional fluorescent exit signs
- Supplied with all legend options - arrow down, arrow up and arrow left/right
- Viewing distance 29 metres



AENLED/3M/W



AENLED/3M/SG

### LED Information

Total (W)	2.6W
Lumens Delivered	
Emergency mode	20lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
<b>Standard</b>	<b>AENLED/3M/W</b>	LED	2.6W Maintained/Non-Maintained - White
	<b>AENLED/3M/SG</b>	LED	2.6W Maintained/Non-Maintained - Silver Grey
<b>Self-Test</b>	<b>AENLED/3M/W/ST</b>	LED	2.6W Maintained/Non-Maintained - White
<b>Accessory</b>	<b>ASBP/2</b>		3.6V 1500mAh Ni-Cd Replacement Battery



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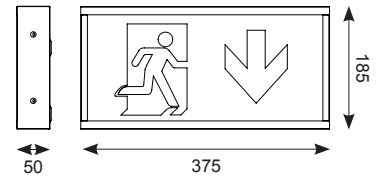
# Watchman LED Lithium Exit Sign

Supplied c/w Legend and Integral Driver

508



- Slim white steel LED exit box sign with legend
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Larger dimensions enables easy retrofit replacement of fluorescent products
- Viewing distance 37 metres



	Code	Lamp	Description
<b>Self-Test</b>	<b>AWLED/LI/3M/ST</b>	LED	3.5W Maintained / Non-Maintained
<b>Legends</b>	<b>AWLED/L/AD</b>	Lithium Legend - Arrow Down	
	<b>AWLED/L/AR</b>	Lithium Legend - Arrow Right	
	<b>AWLED/L/AL</b>	Lithium Legend - Arrow Left	
	<b>AWLED/L/AU</b>	Lithium Legend - Arrow Up	
<b>Battery</b>	<b>ASBP/18</b>	3.2V 1500mAh Li-FePO4 Lithium Replacement Battery	

### LED Information

Total (W)	3.5W
Lumens Delivered	
Emergency mode	17lm
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5C° to 40C°



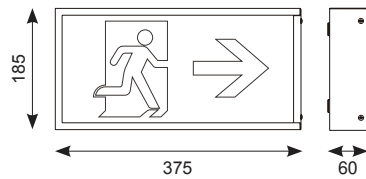
# Watchman LED Exit Sign

Supplied c/w Legend and Integral Driver



509

- White steel LED exit box sign with legend
- Larger dimensions enables easy retrofit replacement of fluorescent products
- Viewing distance 37 metres



## LED Information

Total (W)	3W
Lumens Delivered	
Emergency mode	25lm
CCT	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
	<b>AWLED/3M</b>	LED	3W Maintained / Non-Maintained
<b>Legends</b>	<b>AG8/L/AD</b>		Legend - Arrow Down
	<b>AG8/L/AR</b>		Legend - Arrow Right
	<b>AG8/L/AL</b>		Legend - Arrow Left
	<b>AG8/L/AU</b>		Legend - Arrow Up
<b>Battery</b>	<b>ASBP/3</b>		3.6V 1800mAh Ni-Cd Replacement Battery



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# Eagle 3-In-1 LED Exit Sign

Supplied c/w Integral Driver and Legend

510



AE3LED/3M/SI  
Semi Recessed

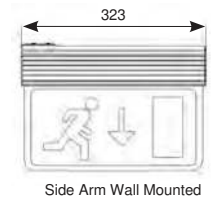
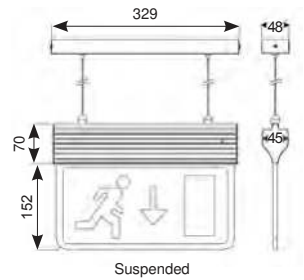
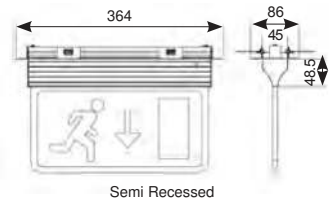


AE3LED/3M/W  
Suspended



AE3LED/3M/W  
Side Arm Wall Mounted

- Modern, slim, 3-In-1 LED Exit Sign
- Self-test option
- One fitting that enables choice of three different mounting options :- suspension, recessed or side arm wall mounting
- Viewing distance 25 metres



	Code	Lamp	Description
<b>Standard</b>	AE3LED/3M/W	LED	2.5W Maintained/Non-Maintained - White
	AE3LED/3M/SI	LED	2.5W Maintained/Non-Maintained - Silver
<b>Self-Test</b>	AE3LED/3M/W/ST	LED	2.5W Maintained/Non-Maintained - White
<b>Legends</b>	AE3LED/ALAR		Double Sided Legend - Arrow Left and Right
	AE3LED/L/AD		Double Sided Legend - Arrow Down
	AE3LED/L/AU		Double Sided Legend - Arrow Up
<b>Battery</b>	ASBP/4		3.6V 800mAh Replacement Ni-Cd Battery

## LED Information

Total (W)	2.5W
Lumens Delivered	
Emergency mode	15lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

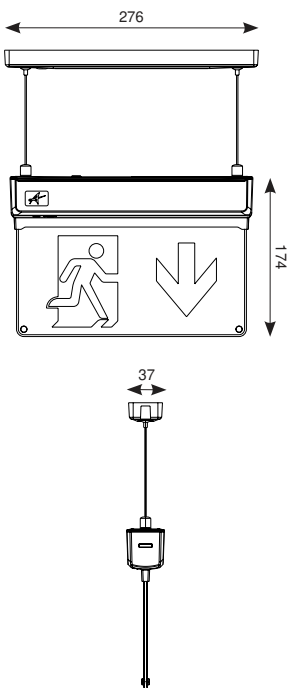




# Kestrel LED Suspended Exit Sign

Supplied c/w Integral Driver and Legend

- Ultra slim suspended LED emergency exit sign
- Self-test emergency as standard
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Viewing distance 24 metres



## LED Information

Total (W)	2W
Lumens Delivered	
Emergency mode	14lm
CCT	6500K
Input	230V
Hertz	50Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
<b>Self-Test</b>	<b>AKESLED/3M</b>	LED	2W - Maintained/Non-Maintained
<b>Legends</b>	<b>AKESLED/ALAR</b>		Double Sided Legend - Arrow Left and Right
	<b>AKESLED/L/AD</b>		Double Sided Legend - Arrow Down
	<b>AKESLED/L/AU</b>		Double Sided Legend - Arrow Up
<b>Battery</b>	<b>ASBP/22</b>		3.2V 1000mAh Replacement Li-FeP04 Battery



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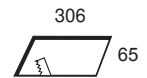
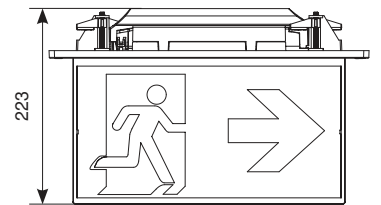
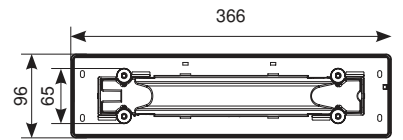


# Razzo LED Lithium Recessed Exit Sign

Supplied c/w Integral Driver and Legend



- Slim low profile recessed LED exit sign
- DALI emergency as standard
- Supplied c/w all legends
- If not connected to DALI network self-test mode operates automatically
- Viewing distance 24 metres



	Code	Lamp	Description
<b>Self-Test</b>	<b>ARAZLED/LI/3M/DA</b>	LED	4.5W Maintained / Non-Maintained - White
	<b>ARAZLED/LI/3M/DA/B</b>	LED	4.5W Maintained / Non-Maintained - Black
<b>Battery</b>	<b>ASBP/19</b>	6.4V 1500mAh LiFePO4 Lithium Replacement Battery	

### LED Information

Total (W)	4.5W
Lumens Delivered	
Emergency mode	100lm
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5C° to 40C°

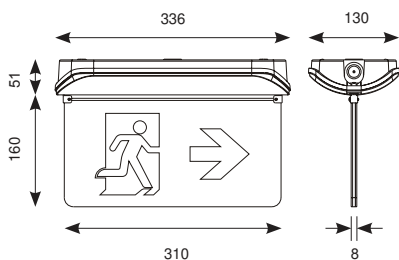


# Harrier LED IP65 Blade Exit Sign

Supplied c/w Self-Adhesive Legend (Optional Blade Legend ordered separately)



- Compact high performance IP65 polycarbonate surface emergency luminaire
- Self-test as standard
- Optional hanging blade legends (supplied with self-adhesive legend as standard) for enhanced appearance
- Aesthetically designed for modern appearance
- 20mm side and rear cable entries
- High output LED performance and distribution allows maximum spacing providing reduced cost
- Viewing distance 25 metres



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

### LED Information

Total (W)	5W
Lumens Delivered	
Emergency Mode	142lm
Standard Mode	299lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
<b>Self-Test</b>	<b>AHARLED/3M/ST</b>	LED	5W Maintained/Non-Maintained
<b>Legends</b>	<b>AHARLED/ALAR</b>		Harrier LED Double Sided Legend - Arrow Left and Right
	<b>AHARLED/L/AD</b>		Harrier LED Double Sided Legend - Arrow Down
	<b>AHARLED/L/AU</b>		Harrier LED Double Sided Legend - Arrow Up
<b>Battery</b>	<b>ASBP/5</b>		7.2V 1500mAh Ni-Cd Replacement Battery



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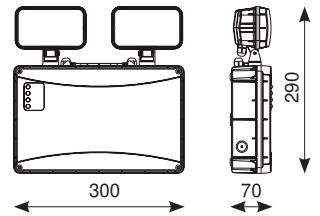


# IP65 Owl LED Twin Spot

Supplied c/w Integral Driver



- Self-test Twin LED emergency floodlight for industrial applications
- Robust white moulded enclosure
- Exceeds performance of 2x20W halogen equivalent
- Moulded polycarbonate heads



	Code	Lamp	Description
<b>Self-Test</b>	<b>ATSLED/3NM/IP65/ST</b>	LED	5W Non-Maintained
<b>Battery</b>	<b>ASBP/6</b>		3.6V 6Ah Ni-Cd Replacement Battery

### LED Information

Total (W)	5W
Lumens Delivered	
Emergency Mode	440lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°





**Project - The Liquor Store**  
Manchester, UK

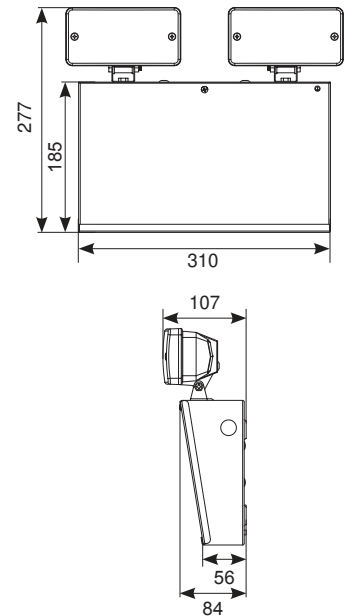
# LED Twin Spot

Supplied c/w Integral Driver

516



- Twin LED emergency floodlighting for industrial applications
- Exceeds performance of 2x20W halogen equivalent
- Robust metal enclosure in an opal colour
- Moulded polycarbonate heads



Code	Lamp	Description
<b>ATSLED/3NM</b>	LED	3W Non-Maintained
<b>Battery</b>	<b>ASBP/7</b>	3.6V 4Ah Ni-Cd Replacement Battery

### LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	198lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°



# Condor LED Twin Spot

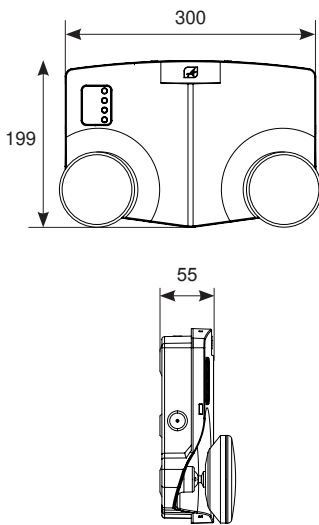
Supplied c/w Integral Driver



- Sleek modern polycarbonate moulded decorative twin spot
- Individual adjustable LED array's allowing the end user to aim output into the desired location
- Decorative design suitable for retail application
- Self-test as standard



ACTSLED/W/3NM



ACTSLED/B/3NM

### LED Information

Total (W)	5W
Lumens Delivered	
Emergency Mode	
ACTSLED/W/3NM	368lm
ACTSLED/B/3NM	361lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

Code	Lamp	Description
<b>Self-Test</b> ACTSLED/W/3NM	LED	5W - White
<b>Self-Test</b> ACTSLED/B/3NM	LED	5W - Black
ASBP/6		3.6V 6Ah Ni-Cd Replacement Battery



# Signal LED Pro Lithium Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

518



ASPRLED/LI/3M/DA  
Open Area Lens

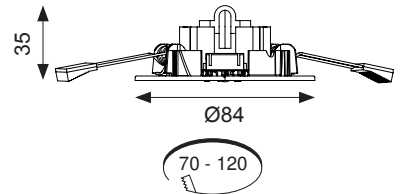


ASPRLED/LI/3M/DA  
Escape Route Lens



ASPRLED/LI/3M/DA  
Fitted with included Converter Plate Accessory

- Compact LED Non-Maintained fixed downlight
- LiFePO4 Lithium battery provides enhanced product lifetime
- 70mm to 120mm cut-out
- Supplied with open area and escape route interchangeable lenses
- High specification optic design and performance allows increased spacing providing reduced cost
- DALI emergency as standard
- If not connected to DALI network Self-test mode operates automatically



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	6	14
4	-	-	5.5	16
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum)**			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	4	8	4	8
4	4.7	9	4.7	9
6	4.9	9.5	4.9	9.5

Code	Lamp	Description
ASPRLED/LI/3M/DA	LED	2.5W Non-Maintained
<b>Accessory</b> ASBP/19	6.4V 1500mAh LiFePO4 Lithium Replacement Battery	

## LED Information

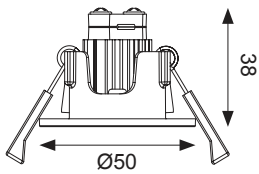
Total (Watts)	2.5W
Lumens Delivered Emergency Mode	
Open Area	209lm
Escape Route	201lm
Beam Angle	
Open Area	144°
Escape Route	143° x 120°
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5°C to 40°C



# Signal LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

- Economic and compact LED Non-Maintained fixed downlight
- Integral selector switch provides option of high/medium/low brightness of green charging indicator
- White and black powder coat paint finish
- LED combines power and green charge indicator
- Dimmable switch included for green charge indicator
- 3 hour emergency output



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing



Mounting Height (M)	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3	8.5	3	8.5
4	3	9	3	9
2.5	2.7	7	2.7	7
4	2.6	7.5	2.6	7.5

Mounting Height (M)	Open (Anti-Panic) area (0.5 Lux Minimum)**			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.6	7.5	3.6	7.5
4	3.6	10.5	3.6	10.5
6	3.6	11	3.6	11
2.5	3	6.3	3	6.3
4	3	9	3	9
6	3	10.5	3	10.5

**LED Information**

Total (Watts)	1.5W
Lumens Delivered Emergency Mode	
ASLED/3NM	137lm
ASLED/3NMB	107lm
Beam Angle	
ASLED/3NM	128°
ASLED/3NMB	115°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

Code	Lamp	Description
ASLED/3NM	LED	1.5W Non-Maintained
ASLED/3NMB	LED	1.5W Non-Maintained - Black

<b>Accessory</b>	<b>ASBP/8</b>	3.6V 2Ah Ni-Cd Replacement Battery
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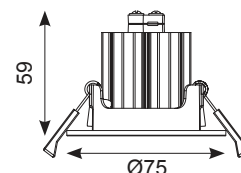
# Beacon LED Emergency Fixed Downlight

Supplied c/w Remote Driver and Battery Pack

520



- LED Non-Maintained fixed polycarbonate downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 123° beam angle



***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	3	9.5
4	-	-	3.3	11.5
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.5	8.9	3.5	8.9
4	4	11.4	4	11.4
6	4.5	12.9	4.5	12.9

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	316lm
Beam Angle	123°
CCT	6500K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 40°C

Code	Lamp	Description
ABFLED/3NM	LED	5W Non-Maintained

Accessory	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery
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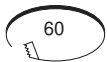
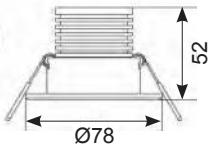
# Beacon LED Emergency Adjustable Downlight

Supplied c/w Remote Driver and Battery Pack



521

- LED Non-Maintained adjustable die-cast aluminium downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 22° beam angle



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	2	5.25	2	5.25
4	2.5	6.5	2.5	6.5
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	2.25	5.7	2.25	5.7
4	2.5	7.1	2.5	7.1
6	3	8.25	3	8.25

## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	248lm
Beam Angle	22°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

Code	Lamp	Description
<b>ABLED/3NM</b>	LED	5W Non-Maintained
<b>Accessory ASBP/9</b>		3.6V 4.5Ah Ni-Cd Replacement Battery



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# Raven LED Emergency Downlight

Supplied c/w Integral Driver and Battery Pack

522



Emergency downlight with integral inverter and battery pack

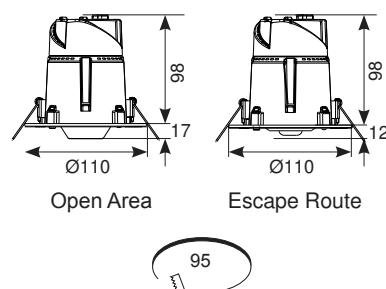


Escape Route



Open Area

- Recessed Self-test emergency downlight with self-contained inverter and battery pack
- Integral components for fast-fit installation
- Option of escape route or open area models
- High performance optic design
- Pre-wired with 150mm rubber insulated cable for ease of installation
- Up to 15 metres spacing between luminaires



\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

		Escape route 2 metres wide (1 Lux minimum) *			
		***	***	***	***
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	-	-	4	10	
4	-	-	3	11	
6	**	**	**	**	

		Open (Anti-Panic) area (0.5 Lux Minimum) **			
		***	***	***	***
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	2.5	4.88	2.5	4.88	
4	2.8	6.69	2.8	6.69	
6	2	8.5	2	8.5	

	Code	Lamp	Description
Self-Test	ARALED/ER/3NM/ST	LED	3W Non-Maintained - Escape Route
Self-Test	ARALED/OA/3NM/ST	LED	3W Non-Maintained - Open Area
Accessory	ASBP/14	3.2V 3000mA Li-FePO4 Lithium Replacement Battery	

## LED Information

Total (Watts)	3W
Lumens Delivered	
Emergency Mode	
Open Area	114lm
Escape Route	90lm
Beam Angle	
Open Area	43.3°
Escape Route	142° x 49°
CCT	6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

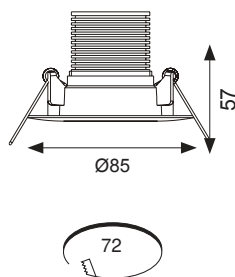


# Merlin LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack



- Ultra-low profile recessed self-test emergency downlight
- Self-test as standard
- Option of escape route or open area models
- High specification optic design and performance allows increased spacing providing reduced cost
- Up to 17.8 metres spacing between luminaires



AMELED/OA/3NM/ST



AMELED/ER/3NM/ST/B

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *				
	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □	
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
AMELED/ER/3NM/ST	2.5	-	-	5.5	14
AMELED/ER/3NM/ST/B	4	-	-	7.5	19.6
	2.5	-	-	5	14
	4	-	-	7	19.5

***	Open (Anti-Panic) area (0.5 Lux Minimum)**				
	□ ↔ ▨	□ ↔ □	□ ↔ ▨	□ ↔ □	
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
AMELED/OA/3NM/ST	2.5	3	6.5	3	6.5
	4	4	9.5	4	9.5
	6	5	11.5	5	11.5
AMELED/OA/3NM/ST/B	2.5	3	6	3	6
	4	4	9	4	9
	6	4.5	10	4.5	10

## LED Information

Total (Watts)	5W	
Lumens Delivered		
Emergency Mode	/B	
Open Area	259lm	191lm
Escape Route	247lm	229lm
Beam Angle		
Open Area	110°	108°
Escape Route	140° x 53°	140° x 53°
CCT	6500K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	0°C to 40°C	

	Code	Lamp	Description
<b>Self-Test</b>	AMELED/ER/3NM/ST	LED	5W Non-Maintained - Escape Route
<b>Self-Test</b>	AMELED/OA/3NM/ST	LED	5W Non-Maintained - Open Area
<b>Self-Test</b>	AMELED/ER/3NM/ST/B	LED	5W Non-Maintained - Escape Route - Black
<b>Self-Test</b>	AMELED/OA/3NM/ST/B	LED	5W Non-Maintained - Open Area - Black

<b>Accessory</b>	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery
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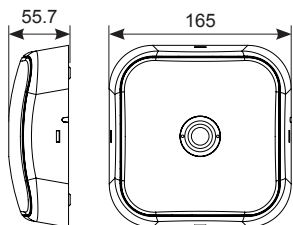
**Project - Synecco**  
Galway, Ireland

# IP65 Falcon LED Surface Emergency Downlight

Supplied c/w Integral Driver and Battery Pack



- Compact surface ultra-low profile recessed self-test emergency downlight
- Self-test as standard
- Supplied with open area and escape route interchangeable lenses
- High specification optic design and performance allows increased spacing providing reduced cost
- Up to 19.6 metres spacing between luminaires
- BESA mounting option



AFALED/3NM/ST/IP65



AFALED/3NM/ST/IP65/B



Open Area Lens



Escape Route Lens

\* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself

\*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

\*\*\* Explanation of the symbols:-

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

	Escape route 2 metres wide (1 Lux minimum) *				
	***				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
AFALED/ER/3NM/ST	2.5	-	-	4.2	10
AFALED/ER/3NM/ST/B	4	-	-	4.25	12
	2.5	-	-	4	9.5
	4	-	-	3.6	11

	Open (Anti-Panic) area (0.5 Lux Minimum)**				
	***				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
AFALED/OA/3NM/ST	2.5	2.5	5	2.5	5
	4	3.5	7.1	3.5	7.1
	6	4	9.8	4	9.8
AFALED/OA/3NM/ST/B	2.5	2.5	4.8	2.5	4.8
	4	3.5	6.8	3.5	6.8
	6	4	9.8	4	9.8

## LED Information

Total (Watts)	3W	
Lumens Delivered		
Emergency Mode	White	Black
Open Area	152lm	142lm
Escape Route	138lm	116lm
Beam Angle		
Open Area	96°	96°
Escape Route	133° x 15°	135° x 17°
CCT	6500K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	0°C to 40°C	

	Code	Lamp	Description
<b>Self-Test</b>	AFALED/3NM/ST/IP65	LED	3W Non-Maintained
<b>Self-Test</b>	AFALED/3NM/ST/IP65/B	LED	3W Non-Maintained - Black

<b>Accessory</b>	ASBP/10	3.6V 3Ah Ni-Cd Replacement Battery
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# LED Panel Pod Emergency

Compatible Infinite and Endurance LED Panels

526



Top Housing View

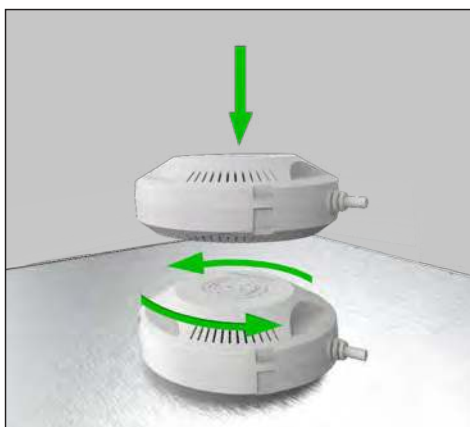


Bottom Housing View showing Emergency LED



## STEP 1

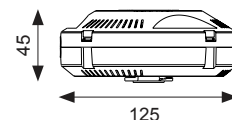
Unscrew coin plug from back of Ansell LED Panels



## STEP 2

Locate and twist Panel Pod into position. Connect incoming supply to pre-leaded cable

- Integral emergency pod to convert any new Ansell Infinite LED and Endurance LED panel to emergency, instantly
- Simple, quick twist and lock fixing
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Supplied with a pre-wired 1 Metre cable for ease of installation
- Tri-colour LED shows green for healthy running condition, red/flashing for fault conditions and white for emergency operation
- **UK Patent No. GB2522285**
- **European Patent No. 15165652.7**
- **Irish Patent No. 2015/0128**
- **EC Registered Design No 002712232-0001**



## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	189lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

	Code	Lamp	Description
<b>Self-Test</b>	<b>AIRMLD/POD/3NM/ST</b>	LED	5W - Cool White
<b>Accessory</b>	<b>ASBP/21</b>	6.4V 3Ah Li-FePO4 Replacement Battery	





# Panel Pod



## **Pre-wired 1 metre cable \***

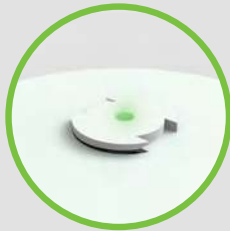
*As standard ensuring a fast and easy installation*

*\* 300mm for Panel Pod Sensor*



## **Twist and Lock Connection**

*Provides a secure connection and easy installation*



## **Self-Test as standard \***

*Provides instant indication to status of emergency module and lamp, negating the need for manual monthly and annual checks*

*\* Panel Pod Emergency only*



## **Detection Area and Angle**

*Provides detection area of 360° with a detection angle of 120°*

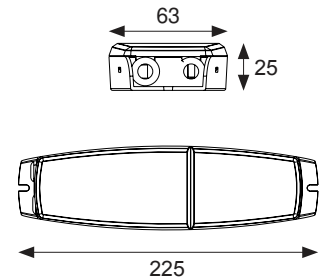


# Hawk Universal Lithium Emergency Kit

528



- Ultra-slim universal Self-test emergency convertor pack for LED luminaires
- Supplied c/w recessed LED indicator housing
- Ideal for most LED panels, Downlights and Linear products
- Compatible for LED luminaires with separate LED driver (Maximum 60V Forward Voltage)
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime



<b>Forward Voltage</b>	18V	23V	28V	33V	38V	43V
<b>Output Current</b>	59mA	60mA	60mA	62mA	62mA	62mA
<b>Output Wattage</b>	1.06W	1.38W	1.68W	2.05W	2.36W	2.67W

<b>Forward Voltage</b>	48V	53V	54V	55V	56V	60V
<b>Output Current</b>	62mA	62mA	62mA	62mA	62mA	62mA
<b>Output Wattage</b>	2.98W	3.29W	3.35W	3.41W	3.47W	3.70W

Code

Description

**AHUEMKIT/LI**

Maintained/Non-maintained - Universal Emergency Pack



# GU10 LED Emergency Lighting Pack



529

- *Emergency lighting pack for use with LED and Mains GU10 CFL Lamps as follows:-*

## **GU10 LED Lamps**

*Minimum: 3W*

*Maximum: 8W*

- *55mm cut-out aperture*
- *Will provide 3 hour duration*



ACFLP/3

Code	Description
------	-------------

<b>ACFLP/3</b>	Maintained / Non-Maintained - CFL/LED
----------------	---------------------------------------

**Warrington:** +44 (0) 1942 433333  
**Belfast:** +44 (0) 2890 773750



# Technical A-Z

## AC Alternating Current

Alternating Current. The movement or flow of electric charge that periodically changes direction. AC current is the format that electricity is supplied in.

## Accent Lighting

Accent lighting is directional lighting which highlights and accentuates certain areas or objects.



316L is a low carbon content grade of Stainless Steel, giving excellent corrosion resistance properties. Due to its corrosion resistance AISI316L is also known as Marine Grade. All Stainless Steel requires a degree of maintenance to ensure its appearance does not tarnish over time. (see ASSCK – Stainless Steel Cleaning Kit below)

## Ambient Lighting

The level of background light, usually low and supplemented by Task or Accent lighting.

## Ambient Temperature

Surrounding - the ambient temperature is the temperature of the air that surrounds the fixture in the room. A critical criterion for fixture selection especially in extreme temperature environments.

## Anti-Ligature

This is a luminaire that is free from points where a cord could be fastened to create a ligature point. If a fitting is classed as Anti-Ligature the ligature risk is eliminated by designing it in such a way that it is not possible for a cordlike object to be looped or tied around it.

## ASSCK

Stainless Steel Cleaning Kit To ensure Inox/AISI316L Stainless Steel products from the Collezione Italiana range maintain their high quality finish and appearance, we recommend regular (every 3-4 months) cleaning by using the ASSCK kit.

## Asymmetric Distribution

Non-symmetric distribution of light. In many cases, the luminous intensity (light output) may be more pronounced in one direction. Commonly found on floodlights to allow them to be aimed downwards, keeping unwanted upward light spillage to a minimum.

## Azimuth

The orientation angle in the horizontal plane, commonly referred to in floodlighting schemes.

## Bathroom Zones

Bathroom luminaire installations must comply with legislation; please refer to latest building regulations.

**Zone 0** – This is inside the bath or shower. Any fitting used in these areas must be SELV and IPX7

**Zone 1** – This is the area above the bath to a height of 2.25m from the floor. In this zone a minimum rating of IPX4 is required. If a 230V luminaire is used, the circuit must be protected by a 30mA RCD.

**Zone 2** – This area extends a further 0.6m outside Zone 1. In this zone a minimum rating of IPX4 is required. It is also recommended to have luminaires with a rating of IPX4 around the wash basin (with 0.6m radius of the tap).

**Outside Zones** - Anywhere outside Zones 0, 1 and 2 are classed as outside zones (excluding specific areas) providing water jets are not used, so the minimum rating is IPX0. If water jets are to be used a minimum of IPX5 is required.

Full details can be found in the IEE Wiring Regulations.



\*Note – The area under the bath is classed as an outside zone providing there is a bath panel in situ which can only be removed with aid of a tool.

## Ballast

A device used to operate fluorescent and HID lamps. The ballast, while limiting and regulating the lamp current during operation, provides the necessary voltage to the lamp.

## Ballast Losses

Power, which is supplied to ballast but is not converted into lamp energy. Ballast loss is dissipated as heat. There are strict guidelines to ensure only efficient ballasts are used, to avoid unnecessary energy consumption.

## Ballast Lumen Factor




The ballast lumen factor (BLF) is the ratio of the light output of the lamp when operated under emergency lighting conditions compared to normal mains supply.

## Beam Angle

Somewhat misleading angle of light spread, to which the intensity has fallen of to 50% of the peak value.

## Binning (LED)

Binning is the process of methodically sorting and grouping LED's according to measured parameters (normally colour and lumens). This allows design engineers to systematically specify an LED and it allows the manufacturer to order LED's that function consistently. Binning also makes it possible to re-order LED's that match the original.

<b>Brightness</b>		What the eye actually sees. Not to be confused with luminance, which is what a lightmeter, reads.
<b>BSI</b>		British Standards Institute. The UK National Standards Body - <a href="http://www.bsigroup.com">www.bsigroup.com</a>  <b>Key Standards applicable include</b> BS 476 part 21 Fire test for building Materials (i-Cage Range) BS 5225 Photometric Data for Luminaires BS 5266 Code of practice for Emergency Lighting BS7671 Requirements for Electrical Installations (Wiring Regulations) BS EN 60570 Track systems for Luminaires BS EN 60598-1 Luminaires - General requirements and tests BS EN 60598-2-2 Luminaires – Specific requirements, Recessed Luminaires BS EN 60598-2-5 Luminaires – Specific requirements, Floodlights BS EN 60598-2-6 Luminaires – Specific requirements, In-built Transformers BS EN 60598-2-22 Luminaires - Specific requirements, Emergency Lighting BS EN 61047 Electronic Transformers
<b>Building Regulations</b>		Legal requirements for the installer to adhere to regarding equipment installed in to a building. Standards exist for Domestic and Non-Domestic premises and there are variations in the different countries of the UK.
<b>Candela (CD)</b>		The SI unit of luminous intensity. The intensity of a light source in a Specific direction.
<b>Capacitor</b>		Component that stores electrical energy. Often used for power factor correction and lamp regulation.
<b>CCT</b>		Correlated Colour Temperature (CCT) defines the colour appearance of a white LED. CCT is defined in degrees Kelvin. See also Colour Temperature
<b>CE</b>		European Community conformity mark. This denotes that the item conforms with the requirements of relevant EU Directives
<b>CELMA</b>		Federation of National Manufactures for Luminaires and Electrotechnical Components for Luminaires. A European body committed to improving standards within the lighting industry. <a href="http://www.celma.org">www.celma.org</a>
<b>CIBSE</b>		The Chartered Institute of Building Service Engineers. The Society of Light and Lighting, a division of CIBSE, publishes many Lighting Guides, widely used as references for the choice of luminaire and recommended Illuminance level most suitable for a specific area. <a href="http://www.cibse.org">www.cibse.org</a>
<b>Class I</b>		Luminaires in this class are electrically insulated and provided with connection with earth.
<b>Class II</b>		Luminaire are designed and constructed so that protection against electric shock does not rely on basic insulation only. This can be achieved by means of reinforced or double insulation. No provision for Earthing is provided.
<b>Class III</b>		Protection against electric shock relies on the supply of Safety Extra Low Voltage (SELV) and in which voltages higher than those of SELV are not generated (Max.50V ac or below).
<b>Colour Rendering Index (CRI/Ra)</b>		Known as CRI or Ra. The appearance of surface colours when illuminated by light from a given source. Good colour rendering implies similarity of appearance to that under an acceptable light source, such as natural daylight.
<b>Colour Temperature (Light sources)</b>		Measured in degrees Kelvin. The Lower the Kelvin figure, the Warmer the lamp Colour Temperature e.g. 2700°K is very warm and 6500°K is very cool/Daylight. Warm White generally refers to >3000 °K, White/Intermediate =3500 °K and Cool White <4000 °K
<b>Compact Fluorescent</b>		Small fluorescent lamps from 5W to 57W that are sufficiently compact to emulate an incandescent lamp. The term also applies to TC-L lamps up to 55W.
<b>Corridor Function</b>		Corridor Function is a setting of DD Dimmable control gear for operation with a PIR (standard on/off). Dimmable ballasts reduces light output to approximately 10% when the area is unoccupied and increases to full light output when presence detector (MWS / PIR) is activated.
<b>Data Sheets</b>		Are available for Ansell products to enable Operation and Maintenance manuals to be completed. These can be obtained via <a href="http://www.anselluk.com">www.anselluk.com</a> .

<p><b>DC</b> <b>Direct Current</b></p>	<p>DC (direct current) is the unidirectional flow or movement of electric charge; electrons. The intensity of the current can vary with time, but the general direction of movement stays the same at all times. The term DC is used in reference to voltage whose polarity never reverses.</p>
<p><b>DD1 (Switch Dim)</b></p>	<p>SWITCH DIM – SwitchDIM operation for ON / OFF and dimming is by means of a push-to-make (retractive) switch, and is the simplest form of dimming. A brief operation of the switch (&lt;0.6sec), will switch ON or OFF. When the push to make switch is held, the ballast is dimmed. On a further push, the ballast is dimmed in the opposite direction.</p> <p>For full operation the circuit should be as shown below, using a 4 core installation (switched live, permanent live supply, neutral and earth).</p>
<p><b>DD2 (DSI)</b></p>	<p>DIGITAL DIMMING (DSI) – Require a digital (DSI) signal from an external source to instruct the ballast to switch ON /OFF and dim. A Digital Serial Interface (DSI) translates the signals from the controller and operates the ballast / driver.</p> <p>This system is commonly employed in larger installations with scene-set controllers or energy management systems. Digital dimming is also used for Infra-Red remote control, PIR presence detection and automatic daylight sensing.</p> <p>Each luminaire requires a 3 core mains supply (L E N) and an additional DSI signal cable, normally a 2 core 0.75mm<sup>2</sup> flexible cable. This is looped around any luminaires to be dimmed together (check with the Dimming Controller supplier as there are a maximum number of ballasts which can be connected together, dependent on lamp type and wattage). An additional Unswitched live is required if the luminaire incorporates emergency control gear.</p>
<p><b>DD3 (DALI)</b></p>	<p>Digital Addressable Lighting Interface. A Dimming system that employs DALI protocol-based technology (i.e.digital control signals) to control electronic ballasts, controllers and sensors belonging to the system. Each system component has its own device-specific address, and this makes it possible to implement individual device control.</p> <p>The DALI system offers 64 individual addresses, 16 group addresses and the ability to program each ballast with up to 16 scenes.</p>
<p><b>DD4</b> <b>(Analogue Dimming 1-10V)</b></p>	<p>1-10V control gear requires an analogue (1-10V) signal from an external source to instruct the ballast / LED Driver to dim.</p> <p>This system is commonly employed in larger installations with scene-set controllers or energy management systems. Digital dimming is also used for PIR presence detection and automatic daylight sensing.</p> <p>Each luminaire requires a 3 core mains supply (L E N) and an additional 1-10V signal cable, normally a 2 core 0.75mm<sup>2</sup> flexible cable. This is looped around any luminaires to be dimmed together (check with the Dimming Controller supplier as there are a maximum number of ballasts / LED drivers which can be connected together, dependent upon lamp type and wattage).</p>
<p><b>DD5 (OCTO Smart Dim)</b></p>	<p>Mains / triac dimming option; allowing detailed products to be used in conjunction with OCTO controllers (AOCTO/IC/200 or AOCTO/OC/IP65/200)</p>
<p><b>Dimmers &amp; Dimming</b></p>	<p>The process by which luminaires are dimmed from 100% to a minimum level that is not always zero. Most luminaires that are required to be dimmed will need special control gear for this operation and typically additional circuit wiring.</p>
<p><b>Direct Lighting</b></p>	<p>Lighting in which the greater part of the luminous flux from the luminaires reaches the surface (usually the working plane) directly, i.e. without reflection from surrounding surfaces.</p>
<p><b>Directional Lighting</b></p>	<p>Lighting a display object predominately from one direction. Directional lighting can be used to great effect in retail, display windows or even exterior floodlighting, producing strong modelling/shadows to accentuate the object.</p>
<p><b>Discharge Lamps</b></p>	<p>Fluorescent lamps are medium pressure discharge lamps but high-pressure lamps include Metal Halide, Ceramic Metal Halide, and High-pressure Sodium lamps.</p>

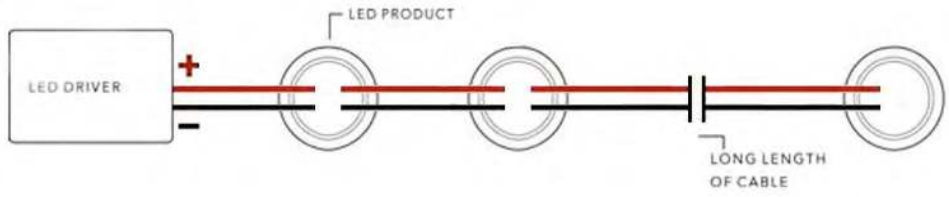
<b>DLOR</b>	<i>Downward Light Output Ratio. The ratio of the total light output of a luminaire below the horizontal.</i>
<b>DMX</b>	<p><i>(Digital Multiplex) is a standard for digital communication networks that are commonly used to control stage lighting and effects. It was originally intended as a standardised method for controlling light dimmers, which, prior to DMX512, had employed various incompatible proprietary protocols. It soon became the primary method for linking controllers (such as a lighting console) to dimmers and special effects devices such as fog machines and intelligent lights.</i></p> <p><i>DMX has also expanded to uses in non-theatrical interior and architectural lighting, at scales ranging from strings of Christmas lights to electronic billboards. The use of DMX can now be used to control almost anything, reflecting its popularity in theatres and venues.</i></p>
<b>Double Insulation</b>	<i>Insulation comprising both basic insulation and supplementary insulation. Also referred to as Class II</i>
<b>Edge Lit</b>	<i>This means that the LED chips are positioned vertically around the perimeter of the product (panel / downlight). Providing an excellent uniform illuminated panel in a fixture as slim as 8mm.</i>
<b>Efficiency</b>	<i>Ratio of power supplied to wattage dissipated.</i>
<b>Efficacy</b>	<i>A metric term used to compare light output to energy consumption. Efficacy is measured in lumens per watt. Efficacy is similar to efficiency, but is expressed in dissimilar units. For example, if a 100-watt source produces 9000 lumens, then the efficacy is 90 lumens per watt</i>
<b>Electromagnetic Ballast (Magnetic Ballast)</b>	<i>Ballast that uses a copper wire winding around a solid core assembly to transform electrical current to start and operate fluorescent and high intensity discharge (HID) lamps.</i>
<b>Electronic Ballasts (High Frequency)</b>	<i>The efficiency of fluorescent lamps can be improved by increasing the frequency of the mains voltage supplied to them. Electronic ballasts and controls can be used to increase the normal mains frequency of 50/60Hz to 25/30KHz improving lamp efficiency by approximately 10%. Electronic ballasts also consume less power than conventional ballasts and when combined with other efficiency benefits, electronic ballasts can achieve savings of around 20% compared to conventional 50/60Hz systems with the same light output levels.</i>
<b>EMC</b>	<i>Electromagnetic Compatibility. Many Electrical items produce unintentional interference, EMC ensures these levels are within guidelines and should therefore not cause unwanted interference with other equipment.</i>
<b>Emergency Lighting</b>	<i>Lighting provided for use when the main lighting installation fails enabling safe exit from a building.</i>
<b>Emergency Lighting test</b>	<p><i>Testing An Emergency Lighting Installation should undergo regular periodic testing to ensure the luminaires are correctly functioning, also to maintain the condition of the batteries. The testing should be recorded in a log book and follow the schedule of</i></p> <ul style="list-style-type: none"> <li><i>• Daily – Visual Check that the charge indicator LED is illuminated</i></li> <li><i>• Monthly – A Functional test, that the luminaire operates when mains supply is disconnected</i></li> <li><i>• Annually – As Monthly test but for the full rated duration of the luminaire (3hrs)</i></li> </ul>
<b>Escape Route Lighting</b>	<i>Emergency lighting provided on a defined route to ensure that the means of escape from a point in a building to the final exit.</i>
<b>E27 (ES)</b>	<i>Edison Screw (lampholder or lamp cap).</i>
<b>E40 (GES)</b>	<i>Giant Edison Screw (lampholder or lamp cap) common on larger wattage HID lamps.</i>
<b>Filament</b>	<i>The tungsten coil that glows to incandescence when an electric current passes through it.</i>
<b>Fire-Rated</b>	<i>A luminaire, usually a downlight, which has been designed to function also as a fire barrier when installed into a building.</i>
<b>Flicker</b>	<i>A visible oscillation in the luminous flux/light output.</i>
<b>Flood Beam</b>	<i>Reflector lamps and luminaires with in built reflectors having a beam spread of more than 60°</i>
<b>Fluorescent lamps</b>	<i>A lamp, which produces light by a gas discharge that in turn, causes a phosphor coating inside the glass envelope or tube to produce light by fluorescence.</i>
<b>Fluorescent Tubes T12, T8, T5 etc</b>	<i>Refers to their diameter of the lamp glass in eighths of an inch, i.e. 12/8 (38mm) 8/8 (26mm) 5/8(16mm) and respectively. Lamps may be linear or compact fluorescent type.</i>

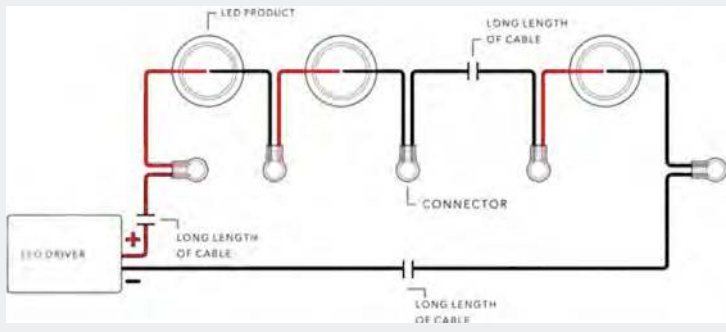


<b>Flux</b>	(Lumens) falling on to a surface.																																
<b>Frequency General Lighting</b>	Rate of alternation in an AC current. Expressed in cycles per second or hertz (Hz). Lighting designed to illuminate the whole of an area uniformly without provision for special local requirements.																																
<b>Glare</b>	Refers to the difficulty seeing in the presence of bright light such as direct or reflected sunlight or artificial light such as direct LED output. Because of this, some luminaires include opal diffusers or reflectors to provide an anti-glare function.																																
<b>Hazardous Area</b>	An environment in which a risk of fire or explosion exists. Commonly referred to as Zone 1, Zone 2 etc, but not to be confused with the Zones of space in bathroom areas. Ansell do not offer any equipment suitable for Hazardous areas.																																
<b>Hertz (Hz)</b>	Cycles (frequency) per second.																																
<b>High Risk Task Area</b>	A requirement within Emergency Escape Lighting provided to ensure the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises.																																
<b>High Power LED</b>	A high power LED, one that is driven at a current of 350mA or higher.																																
<b>Illuminance</b>	A photometric term that quantifies the light on a surface or plane. It is expressed in lumens per m <sup>2</sup> (lux). This can be calculated or measure with a lightmeter.																																
<b>Illumination</b>	The density of luminous flux on a surface this parameter shows how "bright" the surface point appears to the human eye.																																
<b>Incandescent Lamp</b>	A lamp which produces light by electrically heating a filament.																																
<b>Indirect Lighting</b>	A system by which light is reflected from a primary surface, usually ceiling or walls, before reaching the working/task plane. Some luminaires by their design offer indirect lighting.																																
<b>IP Ratings</b>	The designation to indicate the degree of protection consists of the characteristic letter IP followed by two numerals. The first numeral indicates the degree protection against the ingress of solid of objects, whereas the second numeral refers to the degree of protection against the ingress of water. The following symbols are appropriate:																																
<b>Classification of Ingress Protection</b>	<table border="0"> <thead> <tr> <th>Protection Against Solid Objects</th> <th>Protection Against ingress of Water</th> </tr> </thead> <tbody> <tr> <td>IP20 Greater than 12mm</td> <td>Non-protected</td> </tr> <tr> <td>IP21 Greater than 12mm</td> <td>Dripping water</td> </tr> <tr> <td>IP22 Greater than 12mm</td> <td>Dripping water (up to 15° angle)</td> </tr> <tr> <td>IP23 Greater than 12mm</td> <td>Spraying water (up to 60° angle)</td> </tr> <tr> <td>IP40 Greater than 1mm</td> <td>Non-protected</td> </tr> <tr> <td>IP43 Greater than 1mm</td> <td>Spraying water (up to 60° angle)</td> </tr> <tr> <td>IP44 Greater than 1mm</td> <td>Splashing water</td> </tr> <tr> <td>IP54 Dust-protected</td> <td>Splashing water</td> </tr> <tr> <td>IP55 Dust-protected</td> <td>Water jets</td> </tr> <tr> <td>IP64 Dust-tight</td> <td>Splashing water</td> </tr> <tr> <td>IP65 Dust-tight</td> <td>Water jets</td> </tr> <tr> <td>IP66 Dust-tight</td> <td>Powerful water jets</td> </tr> <tr> <td>IP67 Dust-tight</td> <td>Water immersion</td> </tr> <tr> <td>IP68 Dust-tight</td> <td>Submersion to declared depth</td> </tr> <tr> <td>IP69 Dust-tight</td> <td>Powerful high temperature water jets</td> </tr> </tbody> </table>	Protection Against Solid Objects	Protection Against ingress of Water	IP20 Greater than 12mm	Non-protected	IP21 Greater than 12mm	Dripping water	IP22 Greater than 12mm	Dripping water (up to 15° angle)	IP23 Greater than 12mm	Spraying water (up to 60° angle)	IP40 Greater than 1mm	Non-protected	IP43 Greater than 1mm	Spraying water (up to 60° angle)	IP44 Greater than 1mm	Splashing water	IP54 Dust-protected	Splashing water	IP55 Dust-protected	Water jets	IP64 Dust-tight	Splashing water	IP65 Dust-tight	Water jets	IP66 Dust-tight	Powerful water jets	IP67 Dust-tight	Water immersion	IP68 Dust-tight	Submersion to declared depth	IP69 Dust-tight	Powerful high temperature water jets
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<b>Initial Lumens</b>	Lumen output of a lamp after it has been operating 100 hours.																																
<b>Input Voltage</b>	Voltage provided to a ballast/luminaire by the power supply.																																
<b>Inrush Current</b>	Components such as LED drivers can have high inrush currents for milliseconds; this should be considered when specifying switching and breaker ratings.																																



<b>Illuminance</b>	The amount of light.
<b>Illumination Level</b>	Refers to light levels of a space at other than initial or rated conditions. This term considers light loss factors such as lamp lumen depreciation, luminaire dirt depreciation, and room surface dirt depreciation.
<b>Isolux Diagram</b>	A diagram showing contours of equal illuminance. Can be used to determine the direct illuminance on a plane.
<b>Kelvin</b>	A measurement of temperature. $1^{\circ} F = 256^{\circ} \text{ Kelvin}$ . $1^{\circ} C = 274^{\circ} \text{ Kelvin}$ . Used to measure colour temperature. The SI unit of temperature used to express colour temperature. The temperature in Kelvin (K) is approximately equal to the temperature in Celsius ( $^{\circ}C$ ) plus 273.
<b>Kwh</b>	The kilowatt-hour (symbolised kWh) is a unit of energy equivalent to one kilowatt of power expended for one hour of time. This figure is required to complete energy comparison calculations.
<b>Lamp</b>	A device which converts electrical energy into light.
<b>LED</b>	Light-emitting Diode. An LED is a solid-state semiconductor device that converts electrical energy directly into light.
<b>LED Driver / Converter</b>	An LED driver is a device that manages power and controls the current flow for an LED lighting product. LED lighting does not require high voltage, and depending on the application, could even use batteries or solar power. In the HB-LED lighting market, the term driver is usually applied to a device that can accept an input voltage and produce the required voltage. An important factor that affects the correct selection of a particular driver is the way in which multiple LEDs are actually wired together.

<b>LED Parallel Wiring</b>	<p>Parallel wiring means that each component has the same supply voltage and all fittings on the circuit will have the same voltage across the luminaire terminals. The battery current (Amps) is divided by the number of luminaires on the circuit. If one luminaire fails then the remaining fittings on that circuit will stay lit.</p>  <p>The diagram shows an LED DRIVER connected to three LED PRODUCTS. Each LED PRODUCT is connected to the driver via a separate branch of the circuit. A LONG LENGTH OF CABLE is shown between the driver and the products.</p>
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<b>LED Series Wiring</b>	<p>Series wiring means that each component has the same current and the battery voltage is divided by the number of luminaires on the circuit. If one luminaire fails then the remaining fittings on that circuit will NOT stay lit. <b>Please note that incorrect wiring of an LED can result in irreparable damage to the LED and associated power supplies.</b></p>  <p>The diagram shows an LED DRIVER connected to three LED PRODUCTS in a series circuit. The driver is connected to the first LED PRODUCT, which is then connected to the second, and so on. A LONG LENGTH OF CABLE is shown between the driver and the products. A CONNECTOR is also shown in the circuit.</p>
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<b>LED White</b>	<p>Previously, the only way to produce white LED light was by the additive colour mixing of the three basic colours using so-called MULTILED, i.e., three semiconductor chips (red, green and blue LED) had to be combined. Today, manufacturers can produce white LED light with only a single chip. In luminescence conversion, only a blue LED is used, whose light stimulates a luminescent substance that emits yellow light, the system produces the colour white. Depending on the composition of the luminescent substance, various white tones can be achieved such as warm white, cool white etc</p>
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<b>M3</b>	<i>Maintained 3hour, Mode and duration (minimum with fully charged batteries) of an Emergency luminaire. To ensure the full duration is achieved, Emergency luminaires must be correctly maintained to condition the batteries.</i>
<b>Night Light (NL)</b>	<i>A light source used only to provide low levels of illumination at night, for security or safe movement of persons. This may either be a standalone luminaire or an option incorporated within a luminaire used for general lighting. Low wattage compact fluorescent lamps are ideal for this application.</i>
<b>NiCd</b>	<i>The nickel–cadmium battery (NiCd battery or NiCad battery) is a type of rechargeable battery using nickel oxide hydroxide and metallic cadmium as electrodes. The abbreviation Ni-Cd is derived from the chemical symbols of nickel (Ni) and cadmium (Cd)</i>
<b>NiMh</b>	<i>A nickel–metal hydride battery, abbreviated NiMH or Ni–MH, is a type of rechargeable battery. Its chemical reactions are somewhat similar to the largely obsolete nickel–cadmium cell (NiCd). NiMH use positive electrodes of nickel oxyhydroxide (NiOOH), like the NiCd, but the negative electrodes use a hydrogen-absorbing alloy instead of cadmium, being in essence a practical application of nickel–hydrogen battery chemistry. A NiMH battery can have two to three times the capacity of an equivalent size NiCd, and their energy density approaches that of a lithium-ion cell.</i>
<b>Non-Maintained Luminaire</b>	<i>Luminaire is off when the mains power is available to charge the batteries. Upon supply failure the luminaire is energised from the battery pack.</i>
<b>Open (anti-panic) Area Lighting</b>	<i>A part of Emergency Escape Lighting provided to avoid panic and provides illumination-allowing people to reach a place where an escape route can be identified.</i>
<b>Operating Frequency</b>	<i>Refers to the frequency at which the output of a lamp or LED source operates per second. Electronic or high frequency control gear will increase the operating frequency into an operating frequency that the human eye cannot detect.</i>
<b>PIR</b>	<i>Passive InfraRed (Detectors) are a type of occupancy sensor. Ansell do not recommend HF compact fluorescent luminaires controlled by PIR's and they should have a minimum of a 20 minute switching cycle.</i>  <i>The PIR's are suitable for LED lamps / luminaires. LED lamps / luminaires can be switched at any frequency but provision must be taken for the in-rush current of the LED control gear. Ansell recommends the use of branded PIR devices.</i>
<b>Phosphor</b>	<i>The powder coating in an electric discharge lamp is the phosphor. The most common chemical used to make white light is calcium halophosphate. Other colours can be produced by a variety of other chemicals.</i>
<b>Photocell</b>	<i>A light-sensing device used to control luminaires and dimmers in response to detected light levels.</i>
<b>Phase Cut Off / Resistive Dimmers</b>	<i>Devices used to vary the brightness of a light. By decreasing or increasing the RMS voltage and, hence, the mean power to the lamp, it is possible to vary the intensity of the light output. Although variable-voltage devices are used for various purposes, the term dimmer is generally reserved for those intended to control light output from resistive incandescent, halogen, and (more recently) compact fluorescent lights (CFLs) and light-emitting diodes (LEDs). More specialised equipment is needed to dim fluorescent, mercury vapor, solid state and other arc lighting.</i>
<b>Photometrics</b>	<i>Photometrics is a term that expresses the result of scientifically tested Ansell Lighting products to produce information that can be used in lighting design packages such as Relux. This information is available for download at <a href="http://www.anselluk.com/downloads">www.anselluk.com/downloads</a></i>
<b>Ra</b>	<i>See Colour Rendering</i>
<b>REACH</b>	<i>Registration, Evaluation, Authorisation &amp; restriction of Chemicals. An EU Directive covering the use of hazardous chemicals used in the manufacturing process and supply of products.</i>
<b>Relux</b>	<i>The Ansell Lighting design department utilises Relux as the standard lighting design package and visual presentation tool. This programme is available free for download from <a href="http://www.relux.biz">www.relux.biz</a></i>


















<b>RoHS</b>	<i>Restriction of Hazardous Substances (2002/95/EC) is an article 95 directive, meaning it is consistent across all European Union member states. Since July 1st 2006 the use of hazardous substances is restricted in products, to prevent damage to the environment. The prohibited substances are Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls and Polybrominated Diphenyl Ethers.</i>
<b>Self-Contained</b>	<i>The most common type of Emergency lighting luminaire, where all of the components are within one luminaire. This can include gear boxes connected directly to individual luminaires but outside the main luminaire housing.</i>
<b>Self Test Emergency</b>	<i>The Self-Test circuit utilises an accurate internal clock which is programmed to interrupt the permanent mains supply at set intervals thus initiating emergency lighting tests. The Self Test units are supplied pre-programmed to initiate short duration tests once every month, a one third duration test after six months and a full duration test once every 12 months (as recommended in BS5266 and EN50172).</i>
<b>SELV</b>	<i>Separated Extra-Low Voltage. An extra-low voltage system, which is electrically separated from Earth and from other systems in such a way that a single fault cannot give rise to the risk of electric shock.</i>
<b>Stroboscopic Effect</b>	<i>The optical elusion of motion in which moving objects appear stationary when illuminated with periodically changing light. This is due to the movement of the item occurring at the same frequency as the supply to the lamp, normally 50Hz or 50 times per second. This can be particularly dangerous in industrial applications but can be cured by using high frequency control gear.</i>
<b>Symmetrical Distribution</b>	<i>Symmetric distribution of light. In many cases, the luminous intensity (light output) is distributed exactly the same either side of the lighting plane. Commonly found on floodlights, downlights and projectors.</i>
<b>Task lighting</b>	<i>Localised lighting intended for a specific task, examples include bedhead reading lights, desk lamps and inspection bench lighting.</i>
<b>t°C</b>	<i>Rated value of the casing's maximum operating temperature. Typically marked on control gear components.</i>
<b>Thermal Cut-out</b>	<i>A protection from overheating due to abnormal lamp conditions (rectifier effect, short circuit or overload), with automatic restart after cooling. If a lamp is in a cycle of, runs for a duration, turns off, then restarts and runs for the duration again, it is likely that a thermal cut-out is operating.</i>
<b>Thermal Performance</b>	<i>This term refers to the design / thermal management of a luminaire.</i>
<b>TP(a), TP(b)</b>	<i>The Building Regulations Approved Document B2 (buildings other than dwellinghouses) places restrictions on the use of certain thermoplastic materials when they are used as lighting diffusers and form part of a ceiling. TP(a) rated materials may be used almost without restriction, restrictions exist on the use of TP(b) rated materials.</i>
<b>Transformer</b>	<i>A device by which the voltage of alternating current is changed. Traditional transformers are constructed by copper wire wound around an iron core, Electronic transformers are also commonly found. Typically used for supplying low voltage lamps, most transformers can be dimmed. The success of dimming depends on many factors including the type of dimmer and transformer used. Ansell can not recommend particular dimmers and suggest that the dimmer supplier is consulted for compatibility.</i>
<b>ULOR</b>	<i>Upward Light Output Ratio The ratio of the total light output of a luminaire above the horizontal.</i>
<b>Unified Glare Rating</b>	<i>UGR is a calculated value for the amount of glare or discomfort produced by a luminaire; its value ranges from 10 to 30, the higher the value the more perceptible the glare effect.</i>
<b>Utilisation Factor</b>	<i>The proportion of the luminous flux emitted by a light source, which reaches the working plane.</i>
<b>UV Ultra Violet</b>	<i>Invisible radiation that is shorter in wavelength and higher in frequency than visible violet light (literally beyond the violet light). Lamps that emit varying degrees of long wave ultraviolet light, which does cause harm or degradation overtime, may require filters to absorb the UV. A 'failed' lamp that does not emit any visible light is still capable of emitting high levels of UV light but is not noticed as the lack of visible light gives the impression that the lamp is not operating. The high levels of UV can then cause damage to materials, particularly plastics, with dis-colouration and crumbling of the material. Therefore failed lamps should always be replaced immediately. Ultraviolet light source can be used to create special lighting effects with fluorescent materials. UV sources can be incandescent, fluorescent, or preferably HID lamps.</i>

<p><b>Voltage</b></p>	<p>The electric potential which exists between two components in an electrical circuit. Lamps are rated in terms of wattage at a specific voltage. Operating a lamp at another voltage from that which it is rated may cause the lamp to burn at less than full intensity or to burn out very quickly.</p>
<p><b>Watt (W)</b></p>	<p>The unit for measuring electrical power. It defines the rate of energy consumption by an electrical device when it is in operation. The energy cost of operating an electrical device is calculated as its wattage times the hours of use. In singlephase circuits, it is related to volts and amps by the formula: Volts x Amps x Power Factor = Watts. (Note: For AC circuits, Power Factor must be included.)</p>
<p><b>WEEE</b></p>	<p>Compliance with the Waste Electrical and Electronic Equipment Directive.          This covers the collection, treatment and recycling of equipment at end of life. WEEE producer numbers are          Ansell Electrical Products (Warrington) - <b>WEE/FH0429XT</b>          Ansell Sales and Distribution (Belfast) - <b>WEE/GJ0292UQ</b></p> <p>When supplied as B2B EEE the producer invokes regulation 12.2 and passes all WEEE obligations to the end user.</p>
<p><b>Zenith</b></p>	<p>The direction directly above the luminaire (180° angle). Term used in floodlighting designs.</p>



# Technical Lamp Types

Lamp Type Voltage(V)	Rating (W)	Light Flux (lm)	Illustration	Cap/Base Type	Colour Temperature	
<b>PL-S</b>	5	250		G23	4000K	230
	7	400				
	9	600				
	11	900				
<b>PL-C (2-Pin)</b>	10	600		G24 d-1	4000K	230
	13	900		G24 d-1		
	18	1,200		G24 d-2		
	26	1,800		G24 d-3		
<b>PL-C (4-Pin)</b>	10	600		G24 q-1	4000K	230
	13	900		G24 q-1		
	18	1,200		G24 q-2		
	26	1,800		G24 q-3		
<b>PL-T</b>	13	900		GX24 q-1	4000K	230
	18	1,200		GX24 q-2		
	26	1,800		GX24 q-3		
	32	2,400		GX24 q-3		
	42	3,200		GX24 q-4		
	57	4,300		GX24 q-5		
	70	5,200		GX24 q-6		
<b>Megaman Clusterlite</b>	60W	4,000		E27	4000K	230
<b>PL-L</b>	18	1,200		2G11	4000K	230
	24	1,800				
	36	2,900				
	40	3,500				
	55	4,800				
	80	6,000				
<b>TC-DD (2 Pin)</b>	16	1,050		GR8	3500K	230
	28	2,050				
<b>TC-DD (4 Pin)</b>	16	1,050		GR10q	3500K	230
	28	2,050				
	38	2,700				
<b>T5c</b>	40	3,400		2GX13	4000K	230
	55	4,300				
<b>GX53</b>	7	350		GX53	2700K/4000K	230
	9	450				
	11	570				
	13	650				
<b>T5 Miniature</b>	4	150		G5	3500K	230
	6	260				
	8	420				
	13	850				
<b>T5 High Efficiency</b>	14	1,350		G5	4000K	230
	21	2,100				
	28	2,900				
	35	3,650				
<b>T5 High Output</b>	24	2,000		G5	4000K	230
	39	3,500				
	49	4,900				
	54	5,000				
	80	7,000				
<b>T8 Triphosphor</b>	18	1,350		G13	4000K	230
	36	3,350				
	58	5,200				
	70	6,000				

Lamp Type	Rating (W)	Light Flux (lm)	Illustration	Cap/Base Type	Colour Temperature	Voltage (V)
<b>T8 Halophosphor</b>	15	950		G13	3500K	230
	18	1,150				
	30	2,175				
	36	2,850				
	58	4,600				
	70	5,500				
<b>T8 LED Tubes</b>	10	1050		G13	4500K	230
	18	2000				
	22	2350				
<b>SONE-I</b>	70	5,300		E27	2000K	230
<b>SONT</b>	150	15,000		E40	2000K	230
	250	27,500				
	400	50,000				
<b>SONT</b>	1,000	130,000		E40	2050K	230
<b>SONE</b>	250	26,000		E40	2000K	230
	400	47,500				
<b>MBF</b>	80	3,800		E27	4100K 4000K	230
	125	6,500				
<b>MBF</b>	250	15,000		E40	3500K	230
	400	22,500				
<b>HQI-TS</b>	70	5,500		RX-7	4200K	230
	150	10,000				
<b>HQI-E</b>	70	5,300		E27	4000K	230
	150	13,300				
<b>HQI-E</b>	250	23,800		E40	4000K	230
	400	41,000				
<b>HQI/T (MBI/T)</b>	200	20,000		E40	4000K	230
	250	18,900				
	320	30,000				
	400	32,400				
<b>HPI/T</b>	250	19,000		E40	4000K	230
	400	33,000				
<b>HQI/T (MBI/T)</b>	1,000	85,000		E40	6000K	230 415
	2,000	240,000				
<b>CDM-T</b>	35	4,000		G12	3000K	230
	70	7,750				
	150	15,000				
<b>CDM-TC</b>	35	4,000		G8.5	3000K	230
	70	7,650				
<b>GLS Halogen</b>	30	405		B22	2700K	230
	46	700				
	70	1,200				
<b>Striplight</b>	60	710		S19	2700K	230
<b>G4</b>	20	260		G4	2900K	12
<b>G9</b>	40	490		G9	2900K	230
	60	820				

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ACOLED3/CCT/OCTO/DM3	108	84-93	1.16	
ACOLED3/CCT/OCTO/M3	108	84-93	1.16	
ACOLED3/CCT/OCTO/SM3	108	84-93	1.16	
ACOLED3/CCT/SM3	108	84-93	1.16	
ACOLED3/TW/OCTO	104	73-107	0.57	
ACOLED3/TW/OCTO/DM3	104	73-107	1.16	
ACOLED3/TW/OCTO/M3	104	73-107	1.16	
ACOLED3/TW/OCTO/SM3	104	73-107	1.16	
ACOLED4/TW/OCTO	104	66-100	0.57	
ACOLED4/TW/OCTO/DM3	104	66-100	1.16	
ACOLED4/TW/OCTO/M3	104	66-100	1.16	
ACOLED4/TW/OCTO/SM3	104	66-100	1.16	
ACOLEDWW/CW	109	70	0.45	
ACOLEDWW/CW/DD	109	70	0.45	
ACOLEDWW/CW/OCTO	109	70	0.45	
ACOLEDWW/WW	109	66	0.45	
ACOLEDWW/WW/DD	109	66	0.45	
ACOLEDWW/WW/OCTO	109	66	0.45	
ACOLOED1000	409	133	29.5	
ACOLOED500	409	133	15.6	
ACOMAPLED1	200	24	0.64	
ACOMAPLED2	200	25	0.64	
ACONLED/30/RGB	242	N/A	3.91	
ACONLED/30/RGB/PS	242	N/A	0.5	
ACONLED/50/CW	242	N/A	8.23	
ACONLED/50/PS	242	N/A	0.13	
ACONLED/50/WW	242	N/A	8.23	
ACONLED/CL/CW	242	N/A	N/A	
ACONLED/CL/PS	242	N/A	N/A	
ACONLED/CL/RGB	242	N/A	N/A	
ACONLED/CL/RGB/PS	242	N/A	N/A	
ACONLED/CL/WW	242	N/A	N/A	
ACONLED/CLIPS	242	N/A	0.06	
ACONLED/END	242	N/A	0.02	
ACONLED/FBEND	242	N/A	0.05	
ACONLED/RGB/CLIPS	242	N/A	0.05	
ACONLED/RGB/END	242	N/A	0.02	
ACONLED/RGB/FBEND	242	N/A	0.06	
ACONLED/SILG	242	N/A	0.06	
ACP/CH	160	N/A	0.2	
ACP/SC	160	N/A	0.2	
ACP/W	160	N/A	0.2	
ACRESLED2X4	469	107	4.8	
ACRESLED2X4/DA/M3	469	107	7.78	
ACRESLED2X4/DD	469	107	4.8	
ACRESLED2X4/DD/M3	469	107	7.78	
ACRESLED2X4/M3	469	107	7.78	
ACRESLED2X5	469	103	4.53	
ACRESLED2X5/DD	469	103	6	
ACRESLED2X5/DD/DM3	469	103	6.41	
ACRESLED2X5/DD/M3	469	103	6.41	
ACRESLED2X5/DD/SM3	469	103	6.41	
ACRESLED2X5/DM3	469	103	6.41	

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ACRESLED2X5/M3	469	103	6.41	
ACRESLED2X5/SM3	469	103	6.41	
ACSQLEDWL	338	22	0.62	
ACTSLED/B/3NM	517	N/A	1.3	
ACTSLED/W/3NM	517	N/A	1.3	
AD30W/12V	222	N/A	N/A	
AD3W/350	223	N/A	N/A	
AD3W/700	223	N/A	N/A	
AD75W/12V	222	N/A	N/A	
AD9W/350	223	N/A	N/A	
ADDIM100W/12V	224	N/A	0.36	
ADDIM50W/12V	224	N/A	0.2	
ADDIM75W/12V	224	N/A	N/A	
ADELED	486	95	8.81	
ADELED/DD	486	95	8.81	
ADELED/DD/M3	486	95	11.81	
ADELED/M3	486	95	11.81	
ADEPLED	209	85	2.04	
ADGU10S/B	169	N/A	0.11	
ADGU10S/SS	169	N/A	0.11	
ADGU10S/W	169	N/A	0.11	
ADHBLED/PC/BC	210, 437	N/A	0.27	
ADHBLED/SK	210, 437	N/A	0.2	
ADHBLED1/ALU	210, 437	114	2.76	
ADHBLED1/ALU/DD	210, 437	114	2.76	
ADHBLED1/PC	210, 437	116	3.01	
ADHBLED1/PC/DD	210, 437	116	3.01	
ADHBLED2/ALU	210, 437	109	2.88	
ADHBLED2/ALU/DD	210, 437	109	2.88	
ADHBLED2/PC	210, 437	108	3.13	
ADHBLED2/PC/DD	210, 437	108	3.13	
ADI28BZ/BR	258, 322	N/A	N/A	
ADI28BZ/CH	258, 322	N/A	N/A	
ADI28BZ/SG	258, 322	N/A	N/A	
ADILED1	258, 322	67	0.69	
ADILED2	258, 322	61	1.13	
ADILED2/M3	258, 322	61	1.56	
ADILED2/MWS	258, 322	61	1.23	
ADILED2/MWS/M3	258, 322	61	1.5	
ADILED2/MWS/M3/CF	258, 322	61	1.5	
ADILED2/OCTO	258, 322	61	1.13	
ADILED2/OCTO/M3	258, 322	61	1.56	
ADK120W/24V	222	N/A	0.4	
ADK12W/700	223	N/A	0.06	
ADK15W/24V	222	N/A	0.06	
ADK200W/24V	222	N/A	1	
ADK20W/350	223	N/A	0.07	
ADK20W/700	223	N/A	0.07	
ADK320W/24V	222	N/A	1.8	
ADK60W/24V	222	N/A	0.31	
ADLC/0	161	N/A	N/A	
ADLC/1	161	N/A	N/A	
ADLC/2	161	N/A	N/A	
ADLC/4	161	N/A	N/A	
ADLC/6	161	N/A	N/A	
ADLC/7	161	N/A	N/A	
ADLC/8	161	N/A	N/A	
ADLC/9	161	N/A	N/A	
ADLED1/BV/CCT	325	105-112	0.5	
ADLED1/BV/CCT/PC	325	105-112	0.6	
ADLED1/WW/CCT	325	105-112	0.5	
ADLED1/WW/CCT/PC	325	105-112	0.6	
ADLED2/BV/CCT	325	85-91	0.91	
ADLED2/BV/CCT/DD	325	85-91	0.91	
ADLED2/BV/CCT/DD/M3	325	85-91	1.2	
ADLED2/BV/CCT/DD/MWS	325	85-91	1.02	
ADLED2/BV/CCT/DD/MWSM3	325	85-91	1.31	
ADLED2/BV/CCT/DM3	325	85-91	1.78	
ADLED2/BV/CCT/M3	325	85-91	1.2	
ADLED2/BV/CCT/M3/PC	325	85-91	1.31	
ADLED2/BV/CCT/M3/PC	325	85-91	1.31	
ADLED2/BV/CCT/MWS	325	85-91	0.91	
ADLED2/BV/CCT/MWS	325	85-91	0.91	
ADLED2/BV/CCT/MWS/M3	325	85-91	1.31	
ADLED2/BV/CCT/MWS/M3	325	85-91	1.31	



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ADLED2/BV/CCT/PC	325	85-91	0.91		AEVLED300/WB/WW	465	94	0.39		AENLED/3M/SG	507	N/A	0.7	
ADLED2/BZ/EYE/B	325	N/A	0.2		AEVLED600/WB/CW	465	95	0.65		AENLED/3M/W	507	N/A	0.7	
ADLED2/BZ/EYE/W	325	N/A	0.2		AEVLED600/WB/CW/DD	465	95	0.566		AENLED/3M/W/ST	507	N/A	0.7	
ADLED2/BZ/GRILL/B	325	N/A	0.19		AEVLED600/WB/CW/OCTO	465	95	0.566		AENLED/LI/3M/ST	506	N/A	0.59	
ADLED2/BZ/GRILL/W	325	N/A	0.19		AEVLED600/WB/WW	465	93	0.65		AENLED/LI/3MST/B	506	N/A	0.668	
ADLED2/WV/CCT	325	85-91	0.91		AEVLED600/WB/WW/DD	465	93	0.566		AEQTCC600	476, 478, 480	N/A	1.25	
ADLED2/WV/CCT/M3	325	85-91	1.31		AEVLED600/WB/WW/OCTO	465	93	0.566		AERMLD/120/SMF	482	N/A	1.2	
ADM50GU10	287	N/A	1.16		AECLED/CH/CCT	310	104-114	1.59		AERMLD/30/SMF	483	N/A	0.95	
ADM50GU10/SG	287	N/A	1.16		AECLED/CH/CCT/CF/DM3	310	104-114	4.09		AERMLD/SK	476, 480, 483	N/A	6.3	
ADMLED1/GR/CW	301	92	1.55		AECLED/CH/CCT/CF/M3	310	104-114	4.09		AERMLD2/120/CW	482	100	5.5	
ADMLED2/GR/CW	301	85	1.56		AECLED/CH/CCT/DD	310	104-114	1.59		AERMLD2/120/CW/DD	482	100	5.55	
ADOCLED/WL	278	76	1.2		AECLED/CH/CCT/DD/DM3	310	104-114	4.09		AERMLD2/120/DL	482	97	5.5	
ADOLEDWL	303	50	2.5		AECLED/CH/CCT/DDM3	310	104-114	4.09		AERMLD2/120/DL/DD	482	97	5.55	
ADOLEDWL/HP	304	91	3.71		AECLED/CH/CCT/DM3	310	104-114	4.09		AERMLD2/120/WW	482	93	5.5	
ADP2	443	N/A	0.88		AECLED/CH/CCT/M3	310	104-114	4.09		AERMLD2/120/WW/DD	482	93	5.55	
ADP2X2	443	N/A	1.32		AECLED/CH/CCT/MWS	310	104-114	1.69		AERMLD2/30/CW	483	112	5.5	
ADP2X4	443	N/A	2.47		AECLED/CH/CCT/MWS/DM3	310	104-114	1.69		AERMLD2/30/CW/DD	483	112	5.55	
ADP2X5	443	N/A	3.02		AECLED/CH/CCT/MWSM3	310	104-114	1.69		AERMLD2/30/CW/OCTO	483	112	5.5	
ADP4	443	N/A	1.72		AECLED/CH/CCT/OCTO	310	104-114	1.59		AERMLD2/30/DL	483	111	3.1	
ADP5	443	N/A	2.13		AECLED/CH/CCT/OCTO/DM3	310	104-114	4.09		AERMLD2/30/DL/DD	483	111	3.15	
ADSIHLED1	257, 321	86	0.22		AECLED/CH/CCT/OCTOM3	310	104-114	4.09		AERMLD2/30/DL/OCTO	483	111	3.1	
ADSIHLED1/OCTO	257, 321	86	0.22		AECLED/SC/CCT	310	104-114	1.59		AERMLD2/30/WW	483	110	3.1	
ADSIHLED1/WW	257, 321	87	0.22		AECLED/SC/CCT/CF/DM3	310	104-114	4.09		AERMLD2/30/WW/DD	483	110	3.15	
ADSIHLED1/WW/OCTO	257, 321	87	0.22		AECLED/SC/CCT/CF/M3	310	104-114	4.09		AERMLD2/30/WW/OCTO	483	110	3.1	
ADSIHLED2	257, 321	92	0.29		AECLED/SC/CCT/DD	310	104-114	1.59		AERMLD2/60/CW	480	107	2.07	
ADSIHLED2/M3	257, 321	92	1.28		AECLED/SC/CCT/DD/DM3	310	104-114	4.09		AERMLD2/60/CW/DD	480	107	2.07	
ADSIHLED2/MWS	257, 321	92	1.13		AECLED/SC/CCT/DDM3	310	104-114	4.09		AERMLD2/60/CW/OCTO	480	107	2.07	
ADSIHLED2/MWS/M3	257, 321	92	1.43		AECLED/SC/CCT/DM3	310	104-114	4.09		AERMLD2/60/DL	480	105	2.07	
ADSIHLED2/MWS/M3/CF	257, 321	92	1.43		AECLED/SC/CCT/M3	310	104-114	4.09		AERMLD2/60/DL/DD	480	105	2.07	
ADSIHLED2/OCTO	257, 321	92	0.29		AECLED/SC/CCT/MWS	310	104-114	1.69		AERMLD2/60/DL/OCTO	480	105	2.07	
ADSIHLED2/OCTOM3	257, 321	92	1.28		AECLED/SC/CCT/MWS/DM3	310	104-114	4.09		AERMLD2/60/DL/WW	480	100	2.07	
ADSIHLED2/WW	257, 321	82	0.22		AECLED/SC/CCT/MWS/M3	310	104-114	4.09		AERMLD2/60/WW/DD	480	100	2.07	
ADSIHLED2/WW/M3	257, 321	82	0.29		AECLED/SC/CCT/OCTO	310	104-114	1.59		AERMLD2/60/WW/OCTO	480	100	2.07	
ADSIHLED2/WW/MWS	257, 321	82	1.28		AECLED/SC/CCT/OCTO/DM3	310	104-114	4.09		AERMLD3/60/CW	478	102	2.52	
ADSIHLED2/WW/MWSM3	257, 321	82	1.13		AECLED/SC/CCT/OCTOM3	310	104-114	4.09		AERMLD3/60/CW/DD	478	102	2.52	
ADSIHLED2/WW/MWSM3/CF	257, 321	82	1.43		AECLED/W/CCT	310	104-114	1.59		AERMLD3/60/CW/OCTO	478	102	2.52	
ADSIHLED2/WW/OCTO	257, 321	82	0.22		AECLED/W/CCT/CF/DM3	310	104-114	4.09		AERMLD3/60/DL	478	101	2.52	
ADSIHLED2/WW/OCTOM3	257, 321	82	1.28		AECLED/W/CCT/CF/M3	310	104-114	4.09		AERMLD3/60/DL/DD	478	101	2.52	
ADSILED1BZ/CH	257, 321	N/A	0.14		AECLED/W/CCT/DD	310	104-114	1.59		AERMLD3/60/DL/OCTO	478	101	2.52	
ADSILED1BZ/GR	257, 321	N/A	0.14		AECLED/W/CCT/DD/DM3	310	104-114	4.09		AERMLD3/60/WW	478	99	2.52	
ADSILED2BZ/CH	257, 321	N/A	0.19		AECLED/W/CCT/DDM3	310	104-114	4.09		AERMLD3/60/WW/DD	478	99	2.52	
ADSILED2BZ/GR	257, 321	N/A	0.19		AECLED/W/CCT/DM3	310	104-114	4.09		AERMLD3/60/WW/OCTO	478	99	2.52	
ADSILED1	256, 320	73	0.22		AECLED/W/CCT/M3	310	104-114	4.09		AERMLD3/HO/60/CW	478	129	2.52	
ADSILED1/CCT	255, 319	82-92	0.59		AECLED/W/CCT/MWS	310	104-114	1.69		AERMLD3/HO/60/CW/DD	478	129	2.52	
ADSILED1/WW	256, 320	68	0.22		AECLED/W/CCT/MWS/DM3	310	104-114	4.09		AERMLD3/HO/60/CW/OCTO	478	129	2.52	
ADSILED2	256, 320	79	0.29		AECLED/W/CCT/MWSM3	310	104-114	4.09		AERMLD3/HO/60/DL	478	128	2.52	
ADSILED2/CCT	255, 319	79-83	0.87		AECLED/W/CCT/OCTO	310	104-114	1.59		AERMLD3/HO/60/DL/DD	478	128	2.52	
ADSILED2/CCT/M3	255, 319	79-83	1.1		AECLED/W/CCT/OCTO/DM3	310	104-114	4.09		AERMLD3/HO/60/DL/OCTO	478	128	2.52	
ADSILED2/CCT/MWS	255, 319	79-83	1.15		AECLED/W/CCT/OCTOM3	310	104-114	4.09		AERMLD3/HO/60/WW	478	125	2.52	
ADSILED2/CCT/MWS/M3	255, 319	79-83	1.23		AEDELED10/CW	410	95	0.31		AERMLD3/HO/60/WW/DD	478	125	2.52	
ADSILED2/CCT/MWSM3/CF	255, 319	79-83	1.23		AEDELED10/CW/PIR	410	95	0.36		AERMLD3/HO/60/WW/OCTO	478	125	2.52	
ADSILED2/CCT/OCTO	255, 319	79-83	0.87		AEDELED10/WW	410	89	0.31		AFAFC/OAK	219	N/A	0.14	
ADSILED2/CCT/OCTOM3	255, 319	79-83	1.1		AEDELED10/WW/PIR	410	89	0.36		AFAFC/W	219	N/A	0.33	
ADSILED2/M3	256, 320	79	1.28		AEDELED20/CW	410	92	0.39		AFAFC/WAL	219	N/A	0.14	
ADSILED2/MWS	256, 320	79	1.13		AEDELED20/CW/PIR	410	92	0.45		AFALED/3NM/ST/IP65	525	N/A	0.58	
ADSILED2/MWS/M3	256, 320	79	1.43		AEDELED20/WW	410	86	0.39		AFALED/3NM/ST/IP65/B	525	N/A	0.58	
ADSILED2/MWS/M3/CF	256, 320	79	1.43		AEDELED20/WW/PIR	410	86	0.45		AFAMIWL/BASE	218, 219	76	0.44	
ADSILED2/OCTO	256, 320	79	0.87		AEDELED30/CW	411	92	0.56		AFBL/EYE	344	N/A	0.1	
ADSILED2/OCTOM3	256, 320	79	1.1		AEDELED30/CW/PIR	411	92	0.63		AFBL/GRILL	344	N/A	0.16	
ADSILED2/WW	256, 320	75	0.22		AEDELED30/WW	411	85	0.56		AFBLLED	344	66	0.84	
ADSILED2/WW/M3	256, 320	75	0.29		AEDELED30/WW/PIR	411	85	0.63		AFGS/GU10LED	391	N/A	0.38	
ADSILED2/WW/MWS	256, 320	75	1.28		AEDELED50/CW	411	87	0.75		AFLLLED2	440	99	4.82	
ADSILED2/WW/MWSM3	256, 320	75	1.13		AEDELED50/CW/PIR	411	87	0.78		AFLLLED2/DM3	440	99	5.42	
ADSILED2/WW/MWSM3/CF	256, 320	75	1.43		AEDELED50/WW	411	78	0.75		AFLLLED2/M3	440	99	5.42	
ADSILED2/WW/OCTO	256, 320	75	0.87		AEDELED50/WW/PIR	411	78	0.78		AFLLLED2/MWS	440	99	5.08	
ADSILED2/WW/OCTOM3	256, 320	75	1.1		AEFRD/CH	145	N/A	0.18		AFLLLED2/MWS/DM3	440	99	5.68	
ADU50	286	N/A	0.71		AEFRD/IP65/CH	147	N/A	0.19		AFLLLED2/MWS/M3	440	99	5.68	
ADULED/W	215	58	0.49		AEFRD/IP65/MW	147	N/A	0.19		AFLLLED2/MWS/SM3	440	99	5.68	
ADULEDB/080	374	90	3.7		AEFRD/IP65/SC	147	N/A	0.19		AFLLLED2/SM3	440	99	5.42	
ADVRL	261	N/A	1.12		AEFRD/MW	145	N/A	0.18		AFRLED/M3/ST	112	N/A	0.95	
ADVSS	261	N/A	0.6		AEFRD/SC	145	N/A	0.18		AFRLED125/CW	112	62	0.26	
AE3LED/3M/SI	510	N/A	1.36		AEFRG/CH	146	N/A	0.19		AFRLED125/WW	112	59	0.26	
AE3LED/3M/W	510	N/A	1.36		AEFRG/MW	146	N/A	0.19		AFRLED170/CW	112	70	0.34	
AE3LED/3M/W/ST	510	N/A	1.36		AEFRG/SC	146	N/A	0.19		AFRLED170/WW	112	61	0.34	
AE3LED/ALAR	510	N/A	N/A		AEFRISD	145, 147	N/A	0.02		AFRLED230/CW	112	64	0.7	
AE3LED/LAD	510	N/A	N/A		AEFRISG	146	N/A	0.02		AFRLED230/WW	112	61	0.7	
AE3LED/LAU	510	N/A	N/A		AELLED/WL/CW	213	77	1.27		AFRWLED/185	112	73	3.2	

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AFRWOLED/220/CW	112	50	4.5	
AFRWOLED/270	112	65	6.5	
AFRWOLED/270/CW	112	59	5.22	
AFULED/GR	268	74	0.59	
AFULED/W	268	74	0.59	
AFWLED/SC	220	46	0.43	
AFWLED/W	220	46	0.43	
AG8/L/AD	509	N/A	N/A	
AG8/L/AL	509	N/A	N/A	
AG8/L/AR	509	N/A	N/A	
AG8/L/AU	509	N/A	N/A	
AGALED/1/CCT	102	98-103	1	
AGALED1/CCT/DD	102	98-103	1	
AGALED1/CCT/DD/M3	102	98-103	4.12	
AGALED1/CCT/M3	102	98-103	4.12	
AGALED1/CCT/OCTO	102	98-103	1	
AGALED1/CCT/OCTOM3	102	98-103	4.12	
AGALED2/CCT	102	112	1	
AGALED2/CCT/DD	102	112	1	
AGALED2/CCT/DD/M3	102	112	4.12	
AGALED2/CCT/M3	102	112	4.12	
AGALED2/CCT/OCTO	102	112	1	
AGALED2/CCT/OCTOM3	102	112	4.12	
AGALSQLED	272	30	0.72	
AGAMLED	316	93	1.28	
AGAMLED/CCT	317	99-109	1.31	
AGAMLED/CCT/M3	317	99-109	1.54	
AGAMLED/CCT/MWS	317	99-109	1.33	
AGAMLED/CCT/MWSM3	317	99-109	1.56	
AGAMLED/M3	316	93	1.51	
AGAMLED/MWS	316	93	1.3	
AGAMLED/MWS/M3	316	93	1.53	
AGAMLED/WW	316	86	1.28	
AGAMLED/WW/M3	316	86	1.51	
AGAMLED/WW/MWS	316	86	1.3	
AGAMLED/WW/MWS/M3	316	86	1.53	
AGAMLEDBZ/CH	316,317	N/A	0.13	
AGAR/GU10	390	N/A	0.37	
AGDLED	498	89	5.23	
AGDLED/BLA	498	N/A	N/A	
AGDLED/DD	498	89	5.23	
AGDLED/DD/M3	498	89	5.82	
AGDLED/DD/MWS	498	89	5.27	
AGDLED/DD/MWS/M3	498	89	5.86	
AGDLED/M3	498	89	5.82	
AGDLED/MWS	498	89	5.27	
AGDLED/MWS/M3	498	89	5.86	
AGDLED/WLA	498	N/A	N/A	
AGELED2X4	467	108	4.82	
AGELED2X4/DD	467	108	4.82	
AGELED2X4/DD/M3	467	108	7.8	
AGELED2X4/M3	467	108	7.8	
AGELED2X5	467	98	5.76	
AGELED2X5/DD	467	98	5.76	
AGELED2X5/DD/M3	467	98	8.74	
AGELED2X5/M3	467	98	8.74	
AGELED2X5/OCTO	467	98	5.76	
AGLED/3M	501	N/A	0.71	
AGLED/KIT	501	N/A	N/A	
AGLED/WL	297	18	1.02	
AGLED/WL/WW	297	18	0.84	
AGLEDB/700	371	18	3.98	
AGLEDB/700/WW	371	53	3	
AGPL/DG1/W	102	N/A	N/A	
AGPL/DG3/W	102	N/A	N/A	
AHARLED/3M/ST	513	N/A	0.81	
AHARLED/ALAR	513	N/A	N/A	
AHARLED/L/AD	513	N/A	N/A	
AHARLED/L/AU	513	N/A	N/A	
AHELED/CB	330	70	0.38	
AHELED/CB/PIR	330	70	0.42	
AHELED/CW	330	70	0.38	
AHELED/CW/PIR	330	70	0.42	
AHELED/EB	330	38	0.4	
AHELED/EB/PIR	330	38	0.44	
AHELED/EW	330	38	0.4	

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AHELED/EW/PIR	330	38	0.44	
AHELED/OB	330	63	0.29	
AHELED/OB/PIR	330	66	0.31	
AHELED/OW	330	63	0.29	
AHELED/OW/PIR	330	66	0.31	
AHUEMKIT/LI	130,528	N/A	0.35	
AIGLED/CW	121	31	0.07	
AIGLED/CW/W	121	31	0.07	
AIGLED/WW	121	28	0.07	
AIGLED/WW/W	121	28	0.07	
AIRMLED/CW	476	94	3.8	
AIRMLED/CW/DD	476	94	3.8	
AIRMLED/CW/OCTO	476	94	3.8	
AIRMLED/POD/3NM/ST	484,526	N/A	0.95	
AIRMLED/POD/MWS	484	N/A	0.21	
AIRMLED/PRK	476	N/A	2.05	
AIRMLED/SK	476	N/A	0.17	
AIRMLED/SMF	476	N/A	4.28	
AJALED	259	66	1.09	
AJALED/M3	259	66	1.54	
AJALED/MWS	259	66	1.11	
AJALED/MWS/M3	259	66	1.56	
AJALED/MWS/M3/CF	259	66	1.56	
AJALED/BZ/CH	259	N/A	0.26	
AKESLED/3M	511	N/A	0.52	
AKLED/B	274	60	0.75	
AKLED/B/WW	274	26	0.66	
AKLED/SG	274	60	0.75	
AKLED/SG/WW	274	26	0.66	
AKRLED/100/CW	230	99	N/A	
AKRLED/100/RGB	230	N/A	N/A	
AKRLED/100/RGBW	230	N/A	N/A	
AKRLED/100/TW	230	N/A	N/A	
AKRLED/100/WW	230	88	N/A	
AKRLED/1000/CW	230	99	N/A	
AKRLED/1000/RGB	230	N/A	N/A	
AKRLED/1000/RGBW	230	N/A	N/A	
AKRLED/1000/TW	230	N/A	N/A	
AKRLED/1000/WW	230	88	N/A	
AKRLED/2000/CW	230	99	N/A	
AKRLED/2000/RGB	230	N/A	N/A	
AKRLED/2000/RGBW	230	N/A	N/A	
AKRLED/2000/TW	230	N/A	N/A	
AKRLED/2000/WW	230	88	N/A	
AKRLED/300/CW	230	99	N/A	
AKRLED/300/RGB	230	N/A	N/A	
AKRLED/300/RGBW	230	N/A	N/A	
AKRLED/300/TW	230	N/A	N/A	
AKRLED/300/WW	230	88	N/A	
AKRLED/500/CW	230	99	N/A	
AKRLED/500/RGB	230	N/A	N/A	
AKRLED/500/RGBW	230	N/A	N/A	
AKRLED/500/TW	230	N/A	N/A	
AKRLED/500/WW	230	99	N/A	
AKRLED/5000/CW	230	88	N/A	
AKRLED/5000/RGB	230	N/A	N/A	
AKRLED/5000/RGBW	230	N/A	N/A	
AKRLED/5000/TW	230	N/A	N/A	
AKRLED/5000/WW	230	N/A	N/A	
AKTLED/3M/ST	502	N/A	0.5	
ALAZLED/H	386	N/A	0.275	
ALAZPLED/C	386	N/A	0.168	
ALAZPLED2	386	86	1.714	
ALE27/WL/BL	356	N/A	2.15	
ALED/6W/G125/2500K	206	N/A	0.1	
ALED/6W/ST64/2500K	206	N/A	0.05	
ALEDCP/CH	63	N/A	0.26	
ALEDCP/MW	63	N/A	0.23	
ALEDCP/SC	63	N/A	0.23	
ALEOLED/CCT/045/GR	378	67-74	1.5	
ALEOLED/CCT/075/GR	378	73-77	2	
ALEOLED/CCT/100/GR	378	73-77	2.5	
ALGU10/1	148	N/A	0.24	
ALGU10/1/MW	148	N/A	0.24	
ALGU10/2	148	N/A	0.44	
ALGU10/2/MW	148	N/A	0.44	
ALGU10/3	148	N/A	0.67	
ALGU10/3/MW	148	N/A	0.67	

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ALGU10S/B	171	N/A	0.13	
ALGU10S/SS	171	N/A	0.13	
ALGU10S/W	171	N/A	0.13	
ALHL/BL	351	N/A	0.76	
ALHL/PC/BL	351	N/A	0.79	
ALHL/PC/WH	351	N/A	0.79	
ALHL/PIR/BL	351	N/A	0.79	
ALHL/PIR/WH	351	N/A	0.79	
ALHL/WH	351	N/A	0.76	
ALHLED/BL	350	53	0.65	
ALHLED/PC/BL	350	53	0.68	
ALHLED/PC/WH	350	53	0.68	
ALHLED/PIR/BL	350	53	0.68	
ALHLED/PIR/WH	350	53	0.68	
ALHLED/WH	350	53	0.65	
ALIB/100E27	383	N/A	3	
ALIBLED/BLU	343	63	0.43	
ALIBLED/WHI	343	24	0.43	
ALODLED/110/CW	114	68	0.11	
ALODLED/110/WW	114	62	0.11	
ALODLED/150/CW	115	72	0.15	
ALODLED/150/WW	115	66	0.15	
ALODLED/200/CW	115	77	0.25	
ALODLED/200/WW	115	73	0.25	
ALODLED/250/CW	115	85	0.38	
ALODLED/250/WW	115	80	0.38	
ALODLED/75/CW	114	77	0.06	
ALODLED/75/WW	114	71	0.06	
ALODLED/95/CW	114	79	0.08	
ALODLED/95/WW	114	76	0.08	
ALOTLED	487	105-110	3.3	
ALOTLED/DD	487	105-110	3.3	
ALOTLED/DD/DM3	487	105-110	3.95	
ALOTLED/DD/M3	487	105-110	3.95	
ALOTLED/DD/SM3	487	105-110	3.95	
ALOTLED/DM3	487	105-110	3.95	
ALOTLED/M3	487	105-110	3.95	
ALOTLED/OCTO	487	105-110	3.3	
ALOTLED/OCTO/DM3	487	105-110	3.95	
ALOTLED/OCTO/M3	487	105-110	3.95	
ALOTLED/OCTO/SM3	487	105-110	3.95	
ALOTLED/SM3	487	105-110	3.95	
ALTOLED	487	34	1.02	
ALUCLED/B	284	58-64	2.48	
ALUCLED/B/DM3	284	58-64	2.69	
ALUCLED/B/DM3/PC	284	58-64	2.69	
ALUCLED/B/M3	284	58-64	2.69	
ALUCLED/B/M3/PC	284	58-64	2.69	
ALUCLED/B/MWS	284	58-64	2.48	
ALUCLED/B/MWS/DM3	284	58-64	2.69	
ALUCLED/B/MWS/DM3/PC	284	58-64	2.69	
ALUCLED/B/MWS/M3	284	58-64	2.69	
ALUCLED/B/MWS/M3/PC	284	58-64	2.69	
ALUCLED/B/MWS/PC	284	58-64	2.48	
ALUCLED/B/MWS/SM3	284	58-64	2.69	
ALUCLED/B/MWS/SM3/PC	284	58-64	2.69	
ALUCLED/B/PC	284	58-65	2.48	
ALUCLED/B/SM3	284	58-66	2.69	
ALUCLED/B/SM3/PC	284	58-67	2.69	
ALUCLED/G	284	58-68	2.48	
ALUCLED/G/DM3	284	58-69	2.69	
ALUCLED/G/DM3/PC	284	58-70	2.69	
ALUCLED/G/M3	284	58-71	2.69	
ALUCLED/G/M3/PC	284	58-72	2.69	
ALUCLED/G/MWS	284	58-73	2.48	
ALUCLED/G/MWS/DM3	284	58-74	2.69	
ALUCLED/G/MWS/DM3/PC	284	58-75	2.69	
ALUCLED/G/MWS/M3	284	58-76	2.69	
ALUCLED/G/MWS/M3/PC	284	58-77	2.69	
ALUCLED/G/MWS/PC	284	58-78	2.48	
ALUCLED/G/MWS/SM3	284	58-79	2.69	
ALUCLED/G/MWS/SM3/PC	284	58-80	2.69	
ALUCLED/G/PC	284	58-81	2.48	
ALUCLED/G/SM3	284	58-82	2.69	
ALUCLED/G/SM3/PC	284	58-83	2.69	
ALWL/BL	353	N/A	0.69	
ALWL/CBB	353	N/A	N/A	
ALWL/CBW	353	N/A	N/A	



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ALWL/PIR/BL	353	N/A	0.72		AMICD/BLC	140	N/A	0.24		AMTSC/W	174	N/A	N/A	
ALWL/PIR/WH	353	N/A	0.72		AMICD/BR	140	N/A	0.24		AMTSK	175	N/A	N/A	
ALWL/WH	353	N/A	0.69		AMICD/CH	140	N/A	0.24		AMTTC/PI/B	175	N/A	N/A	
ALWILLED/BL	352	68	0.69		AMICD/IP65/AB	143	N/A	0.33		AMTTC/PI/SS	175	N/A	N/A	
ALWILLED/PIR/BL	352	68	0.71		AMICD/IP65/BLC	143	N/A	0.33		AMTTC/PI/W	175	N/A	N/A	
ALWILLED/PIR/WH	352	68	0.71		AMICD/IP65/BR	143	N/A	0.33		AMTTC/PO/B	175	N/A	N/A	
ALWILLED/WH	352	68	0.69		AMICD/IP65/CH	143	N/A	0.33		AMTTC/PO/SS	175	N/A	N/A	
ALWPLED	427	71	1.6		AMICD/IP65/MW	143	N/A	0.33		AMTTC/PO/W	175	N/A	N/A	
ALWPLED/DD	427	71	1.6		AMICD/IP65/SC	143	N/A	0.33		AMTXC/B	174	N/A	N/A	
ALWPLED/DD/M3	427	71	3.3		AMICD/IP65/W	143	N/A	0.33		AMTXC/SS	174	N/A	N/A	
ALWPLED/DD/MWS	427	71	2		AMICD/MW	140	N/A	0.24		AMTXC/W	174	N/A	N/A	
ALWPLED/DD/MWS/M3	427	71	3.7		AMICD/SC	140	N/A	0.24		ANAPLED/B	285	108-117	2.01	
ALWPLED/M3	427	71	3.3		AMICD/W	140	N/A	0.24		ANAPLED/B/DM3	285	108-117	2.22	
ALWPLED/MWS	427	71	2		AMICG/AB	142	N/A	0.26		ANAPLED/B/DM3/PC	285	108-117	2.43	
ALWPLED/PC	427	71	2.2		AMICG/BLC	142	N/A	0.26		ANAPLED/B/M3	285	108-117	2.22	
ALWPLED/WW	427	67	1.6		AMICG/BR	142	N/A	0.26		ANAPLED/B/M3/PC	285	108-117	2.43	
ALWPLED/WW/DD	427	67	1.6		AMICG/CH	142	N/A	0.26		ANAPLED/B/MWS	285	108-117	2.22	
ALWPLED/WW/DD/M3	427	67	3.3		AMICG/MW	142	N/A	0.26		ANAPLED/B/MWS/DM3	285	108-117	2.43	
ALWPLED/WW/DD/MWS	427	67	1.7		AMICG/SC	142	N/A	0.26		ANAPLED/B/MWS/DM3/PC	285	108-117	2.64	
ALWPLED/WW/DD/MWS/M3	427	67	3.4		AMICG/W	142	N/A	0.26		ANAPLED/B/MWS/M3	285	108-117	2.43	
ALWPLED/WW/M3	427	67	3.3		AMIFC/OAK	218	N/A	0.16		ANAPLED/B/MWS/M3/PC	285	108-117	2.64	
ALWPLED/WW/MWS	427	67	1.7		AMIFC/W	218	N/A	0.42		ANAPLED/B/MWS/PC	285	108-117	2.43	
ALWPLED/WW/PC	427	67	1.7		AMIFC/WAL	218	N/A	0.16		ANAPLED/B/MWS/SM3	285	108-117	2.43	
AM2LED/ASY/500	410	146	2.37		AMILLED4	462	90-92	1.86		ANAPLED/B/MWS/SM3/PC	285	108-117	2.64	
AM2LED/ASY/500/PC	410	146	22.37		AMILLED5	462	77-79	2.47		ANAPLED/B/PC	285	108-117	2.22	
AM2LED/ASY/800	410	138	24.78		AMLED/KIT/TUNE	240	N/A	0.4		ANAPLED/B/SM3	285	108-117	2.22	
AM2LED/ASY/800/PC	410	138	24.78		AMLED/LC	231, 233, 235, 237	N/A	0.01		ANAPLED/B/SM3/PC	285	108-117	2.43	
AMALED120/CCT	244	91-97	0.36		AMLED100	415	96	9		ANAPLED/G	285	108-117	2.01	
AMALED20/CCT	244	99-102	0.13		AMLED100/PC	415	96	9.6		ANAPLED/G/DM3	285	108-117	2.22	
AMALED50/CCT	244	98-102	0.21		AMLED200	415	101	13.5		ANAPLED/G/DM3/PC	285	108-117	2.43	
AMALED80/CCT	244	96-102	0.29		AMLED200/PC	415	101	14.1		ANAPLED/G/M3	285	108-117	2.22	
AMATBLED	340	43-51	0.59		AMLED300	414	91	3.6		ANAPLED/G/M3/PC	285	108-117	2.43	
AMATROLED	273	36	0.66		AMLED30/PIR	414	91	3.7		ANAPLED/G/MWS	285	108-117	2.22	
AMCD25W	225	N/A	N/A		AMLED50	414	96	5.88		ANAPLED/G/MWS/DM3	285	108-117	2.43	
AMCD50W	225	N/A	N/A		AMLED50/PC	414	96	6.48		ANAPLED/G/MWS/DM3/PC	285	108-117	2.64	
AME27045/BL	380	N/A	2.5		AMLWPLED/CCT	426	78-96	1.8		ANAPLED/G/MWS/M3	285	108-117	2.43	
AME27045/SS	381	N/A	3.28		AMON/GU10/B	175	N/A	0.11		ANAPLED/G/MWS/M3/PC	285	108-117	2.64	
AME27075/BL	380	N/A	2.7		AMON/GU10/SS	175	N/A	0.11		ANAPLED/G/MWS/PC	285	108-117	2.43	
AME27075/SS	381	N/A	3.34		AMON/GU10/W	175	N/A	0.11		ANAPLED/G/MWS/SM3	285	108-117	2.43	
AME27100/BL	380	N/A	4		AMT1/B	163	N/A	0.5		ANAPLED/G/MWS/SM3/PC	285	108-117	2.64	
AME27100/SS	381	N/A	6.7		AMT1/B/24V	163	N/A	0.26		ANAPLED/G/PC	285	108-117	2.22	
AMELED/ER3NMST	127, 523	N/A	0.81		AMT1/SS	163	N/A	0.5		ANAPLED/G/SM3	285	108-117	2.22	
AMELED/ER3NMST/B	127, 523	N/A	0.81		AMT1/W	163	N/A	0.5		ANAPLED/G/SM3/PC	285	108-117	2.43	
AMELED/OA3NMST	127, 523	N/A	0.81		AMT1/W/24V	163	N/A	0.26		ANE27/PI/BL	357	N/A	2.23	
AMELED/OA3NMST/B	127, 523	N/A	0.81		AMT2/B	173	N/A	1		ANE27/WLBA/BL	357	N/A	2.14	
AMERLED/CCT	312	71-87	1.97		AMT2/SS	173	N/A	1		ANE27/WLTA/BL	357	N/A	2.19	
AMERLED/CCT/M3	312	71-87	2.24		AMT2/W	173	N/A	1		ANELED	490	99-108	3.6	
AMERLED/CCT/MWS	312	71-87	2.07		AMTA/B	175	N/A	N/A		ANELED/DD	490	99-108	3.6	
AMERLED/CCT/MWS/M3	312	71-87	2.34		AMTA/SS	175	N/A	N/A		ANELED/DD/M3	490	99-108	4.11	
AMERLED/CCT/OCTO	312	71-87	1.97		AMTA/W	175	N/A	N/A		ANELED/M3	490	99-108	4.11	
AMERLED/CCT/OCTO/M3	312	71-87	2.24		AMTBC/B	174	N/A	N/A		ANELED/OCTO	490	99-108	3.6	
AMERLED/HP	312	82	2.45		AMTBC/SS	174	N/A	N/A		ANELED/OCTO/M3	490	99-108	4.11	
AMERLED/HP/DD	312	82	2.45		AMTBC/W	174	N/A	N/A		ANSGU10/SC	137	N/A	0.45	
AMERLED/HP/DD/M3	312	82	2.72		AMTDE/B	174	N/A	N/A		ANSGU10/W	137	N/A	0.45	
AMERLED/HP/DD/M3/ST	312	82	2.98		AMTDE/SS	174	N/A	N/A		ANTIAED	293	37	0.58	
AMERLED/HP/DD/MWS	312	82	2.55		AMTDE/W	174	N/A	N/A		ANZOLED/CCT	116	97-108	0.36	
AMERLED/HP/DD/MWS/M3	312	82	2.83		AMTFC/B	175	N/A	N/A		AOCOMMISSION	442	N/A	N/A	
AMERLED/HP/M3	312	82	2.72		AMTFC/SS	175	N/A	N/A		AOCONTROLLER	442	N/A	N/A	
AMERLED/HP/MWS	312	82	2.55		AMTFC/W	175	N/A	N/A		AOCTO/BT/PIR/IP65-S	51	N/A	0.11	
AMERLED/HP/MWS/M3	312	82	2.83		AMTINS/B	173, 189	N/A	0.09		AOCTO/BT/PIR/IP66/HBSP	52	N/A	0.25	
AMERLED/HP/OCTO	312	82	2.45		AMTINS/SS	173, 189	N/A	0.09		AOCTO/BT/PIR/IP66/HBWD	53	N/A	0.25	
AMERLED/HP/OCTO/M3	312	82	2.72		AMTINS/W	173, 189	N/A	0.09		AOCTO/BT/PIR-R	50	N/A	0.01	
AMERLEDBZ/CH	312	N/A	0.25		AMTLC/PI/B	175	N/A	N/A		AOCTO/BT/PIR-S	50	N/A	0.18	
AMETLED	389	91	1.11		AMTLC/PI/SS	175	N/A	N/A		AOCTO/BT/WS	45	N/A	0.06	
AMGAMLED	250, 314	94	1.31		AMTLC/PI/W	175	N/A	N/A		AOCTO/BT/WS/IP65	47	N/A	0.06	
AMGAMLED/CCT	251, 315	105-115	0.77		AMTLC/PO/B	175	N/A	N/A		AOCTO/IC/200	38	N/A	0.15	
AMGAMLED/CCT/M3	251, 315	105-115	1.04		AMTLC/PO/SS	175	N/A	N/A		AOCTO/IC/50	38	N/A	0.15	
AMGAMLED/CCT/MWS	251, 315	105-115	0.81		AMTLC/PO/W	175	N/A	N/A		AOCTO/OC/IP65/200	43	N/A	0.32	
AMGAMLED/CCT/MWS/M3	251, 315	105-115	1.05		AMTLE/PL/B	174	N/A	N/A		AOCTO/RGBW/BTC	40	N/A	0.23	
AMGAMLED/M3	250, 314	94	1.54		AMTLE/PL/SS	174	N/A	N/A		AOCTO/SR	48	N/A	0.05	
AMGAMLED/MWS	250, 314	94	1.33		AMTLE/PL/W	174	N/A	N/A		AOCTO/WS/B	44	N/A	0.05	
AMGAMLED/MWS/M3	250, 314	94	1.56		AMTLE/PR/B	174	N/A	N/A		AOCTO/WS/M	44	N/A	0.05	
AMGAMLED/WW	250, 314	88	1.31		AMTLE/PR/SS	174	N/A	N/A		AOCTO/WS/W	44	N/A	0.05	
AMGAMLED/WW/M3	250, 314	88	1.54		AMTLE/PR/W	174	N/A	N/A		AOCTO/XP/WS/B	46	N/A	0.09	
AMGAMLED/WW/MWS	250, 314	88	1.33		AMTP1/SS	167	N/A	N/A		AOCTO/XP/WS/W	46	N/A	0.09	
AMGAMLED/WW/MWS/M3	250, 314	88	1.56		AMTP1/W	167	N/A	N/A		AOCTOBT/L/8W/E27	37	N/A	0.07	
AMGAMLEDBZ/CH	250, 314	N/A	0.29		AMTSC/B	174	N/A	N/A		AOCTOBT/L/ADAPTOR/B22	37	N/A	0.4	
AMICD/AB	140	N/A	0.24		AMTSC/SS	174	N/A	N/A		AOCTOW/A60LED/RGBTW/B22	28	N/A	0.09	

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AOCTOW/A60LED/RGBTW/E27	28	N/A	0.09	
AOCTOW/A60LED/TW/B22	27	N/A	0.09	
AOCTOW/A60LED/TW/E27	27	N/A	0.09	
AOCTOW/G95LED/RGBTW/B22	29	N/A	0.11	
AOCTOW/G95LED/RGBTW/E27	29	N/A	0.11	
AOCTOW/IC/400	34	N/A	0.2	
AOCTOW/VENOM/EXT/RGBTW	31	N/A	0.23	
AOCTOW/VENOM/KIT/RGBTW	31	N/A	0.23	
AOEDL55	442	135	3.83	
AOEDL55/DD	442	135	3.83	
AOEDL55/DD/M3	442	135	4.33	
AOEDL55/DD/SEN1	442	135	4.73	
AOEDL55/DD/SEN1/M3	442	135	5.23	
AOEDL55/M3	442	135	4.33	
AOEDL55/SEN1	442	135	4.73	
AOEDL55/SEN1/M3	442	135	5.23	
AOEDL55/SEN3	442	135	4.73	
AOEDL55/SEN3/M3	442	135	5.23	
AOEDL55/WG	442	N/A	1.33	
AOEDL80	442	120	2.91	
AOEDL80/DD	442	120	2.91	
AOEDL80/DD/M3	442	120	8.91	
AOEDL80/DD/SEN1	442	120	8.86	
AOEDL80/DD/SEN1/M3	442	120	9.26	
AOEDL80/M3	442	120	8.91	
AOEDL80/SEN1	442	120	8.86	
AOEDL80/SEN1/M3	442	120	9.26	
AOEDL80/SEN3	442	120	8.86	
AOEDL80/SEN3/M3	442	120	9.26	
AOEDL80/WG	442	N/A	2.91	
AONXLED/1	431	104	3.6	
AONXLED/1/PC	431	104	4.2	
AONXLED/2	431	103	3.7	
AONXLED/2/PC	431	103	4.3	
AONXLED/3	431	98	5.2	
AONXLED/3/PC	431	98	5.8	
AONXLED/4	431	103	5.5	
AONXLED/4/PC	431	103	6.1	
AONXLED/SBA	431	N/A	0.62	
AONXLED/WB	431	N/A	2.2	
AORBLED/CW	62	92	0.3	
AORBLED/DIMMER	63	N/A	0.32	
AORBLED/WW	62	82	0.3	
AORBLEDZ/AB	63	N/A	0.04	
AORBLEDZ/BLC	63	N/A	0.04	
AORBLEDZ/BR	63	N/A	0.04	
AORBLEDZ/CH	63	N/A	0.04	
AORBLEDZ/SC	63	N/A	0.04	
AORBLEDZ/SQ/AB	63	N/A	0.04	
AORBLEDZ/SQ/BLC	63	N/A	0.04	
AORBLEDZ/SQ/BR	63	N/A	0.04	
AORBLEDZ/SQ/CH	63	N/A	0.04	
AORBLEDZ/SQ/MW	63	N/A	0.04	
AORBLEDZ/SQ/SC	63	N/A	0.04	
AORFLED100/ASY	411	123	3.5	
AORFLED150/ASY	411	136	5.6	
AORFLED200/ASY	411	138	7.2	
AORNLED/PL1	384	71	2.38	
AORNLED/PL2	384	N/A	2.43	
AOSLED/3M/CS	504	N/A	1.1	
AOSLED/3M/ST	504	N/A	1.06	
AOTLED/90B	461	N/A	0.52	
AOTLED2X5/CCT	461	84-86	3.3	
AOTLED2X5/CCT/DD	461	84-86	3.3	
AOTLED2X5/CCT/DD/M3	461	84-86	3.3	
AOTLED2X5/CCT/DD/MWS	461	84-86	3.3	
AOTLED2X5/CCT/DD/MWSM3	461	84-86	3.3	
AOTLED2X5/CCT/M3	461	84-86	3.3	
AOTLED2X5/CCT/MWS	461	84-86	3.3	
AOTLED2X5/CCT/MWS/M3	461	84-86	3.3	
AOTLED2X5/CCT/OCTO	461	84-86	3.3	
AOTLED2X5W/CCT	461	84-86	3.3	
AOTLED2X5W/CCT/DD	461	84-86	3.3	
AOTLED2X5W/CCT/DD/M3	461	84-86	3.3	
AOTLED2X5W/CCT/DD/MWS	461	84-86	3.3	
AOTLED2X5W/CCT/DD/MWSM3	461	84-86	3.3	
AOTLED2X5W/CCT/M3	461	84-86	3.3	
AOTLED2X5W/CCT/MWS	461	84-86	3.3	

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AOTLED2X5W/CCT/MWSM3	461	84-86	3.3	
AOTLED2X5W/CCT/OCTO	461	84-86	3.3	
AOTLED5/CCT	461	86-92	3.3	
AOTLED5/CCT/DD	461	86-92	3.3	
AOTLED5/CCT/DD/M3	461	86-92	3.3	
AOTLED5/CCT/DD/MWS	461	86-92	3.3	
AOTLED5/CCT/DD/MWSM3	461	86-92	3.3	
AOTLED5/CCT/M3	461	86-92	3.3	
AOTLED5/CCT/MWS	461	86-92	3.3	
AOTLED5/CCT/MWS/M3	461	86-92	3.3	
AOTLED5W/CCT	461	86-92	3.3	
AOTLED5W/CCT/DD	461	86-92	3.3	
AOTLED5W/CCT/DD/M3	461	86-92	3.3	
AOTLED5W/CCT/DD/MWS	461	86-92	3.3	
AOTLED5W/CCT/DD/MWSM3	461	86-92	3.3	
AOTLED5W/CCT/M3	461	86-92	3.3	
AOTLED5W/CCT/MWS	461	86-92	3.3	
AOTLED5W/CCT/MWS/M3	461	86-92	3.3	
AOXLED2X4	473	111	2.57	
AOXLED2X4/DD	473	111	2.57	
AOXLED2X4/DD/M3	473	111	3.15	
AOXLED2X4/M3	473	111	3.15	
AOXLED2X4/M3/OCTO	473	111	3.15	
AOXLED2X4/OCTO	473	111	2.57	
AOXLED2X4/OCTO/M3	473	111	3.15	
AOXLED2X5	473	109	3.24	
AOXLED2X5/DD	473	109	3.24	
AOXLED2X5/DD/M3	473	109	3.82	
AOXLED2X5/DD/M3/ST	473	109	3.84	
AOXLED2X5/M3	473	109	3.82	
AOXLED2X5/OCTO	473	109	3.24	
AOXLED2X5/OCTO/M3	473	109	3.82	
AOXLED4	473	128	2.42	
AOXLED4/DD	473	128	2.42	
AOXLED4/DD/DM3	473	128	2.89	
AOXLED4/DD/M3	473	128	2.89	
AOXLED4/DD/SM3	473	128	2.89	
AOXLED4/DM3	473	128	2.89	
AOXLED4/M3	473	128	2.89	
AOXLED4/OCTO	473	128	2.42	
AOXLED4/OCTO/DM3	473	128	2.89	
AOXLED4/OCTO/M3	473	128	2.89	
AOXLED4/OCTO/SM3	473	128	2.89	
AOXLED4/SM3	473	128	2.89	
AOXLED5	473	108	2.93	
AOXLED5/DD	473	108	2.93	
AOXLED5/DD/DM3	473	108	3.4	
AOXLED5/DD/M3	473	108	3.4	
AOXLED5/DD/SM3	473	108	3.4	
AOXLED5/DM3	473	108	3.4	
AOXLED5/M3	473	108	3.4	
AOXLED5/OCTO	473	108	2.93	
AOXLED5/OCTO/DM3	473	108	3.4	
AOXLED5/OCTO/M3	473	108	3.4	
AOXLED5/OCTO/SM3	473	108	3.4	
AOXLED5/SM3	473	108	3.4	
APAVLED/WL	279	N/A	1.17	
APAVLEDB/60	362	N/A	1.48	
APCLED/WL	339	45	0.67	
APLEDDVRL	260	55	0.53	
APLULED	491	112	3	
APLULED/DD	491	112	3	
APLULED/DD/M3	491	112	3.49	
APLULED/M3	491	112	3.49	
APLULED/OCTO	491	112	3	
APLULED/OCTO/M3	491	112	3.49	
APLULED/CCTPACK	72	67-85	0.38	
APRILED/CW	70	102	0.38	
APRILED/WW	70	102	0.38	
APRILEDZ/CH	70	N/A	0.04	
APRILEDZ/SC	70	N/A	0.04	
APRILEDP/CCT	68	78-87	0.28	
APRILEDP/CW	66	96	0.28	
APRILEDP/G/BLK	69	89-100	0.31	
APRILEDP/G/CH	69	89-100	0.31	
APRILEDP/G/MW	69	89-100	0.31	
APRILEDP/G/SC	69	89-100	0.31	
APRILEDP/OCTOW	32	78-82	0.28	

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APRILEDP/WW	66	89	0.28	
APRILEDPBZ/BLK	66	N/A	0.01	
APRILEDPBZ/CH	66	N/A	0.01	
APRILEDPBZ/SC	66	N/A	0.01	
APRILED2X4	471	98	3.7	
APRILED2X4/DD	471	98	3.7	
APRILED2X4/DD/M3	471	98	4.29	
APRILED2X4/DD/MWS	471	98	3.72	
APRILED2X4/DD/MWS/M3	471	98	4.33	
APRILED2X4/M3	471	98	4.29	
APRILED2X4/MWS	471	98	3.72	
APRILED2X4/MWS/M3	471	98	4.33	
APRILED2X4/OCTO	471	98	3.7	
APRILED2X4/OCTO/M3	471	98	4.29	
APRILED2X5	471	100	4.5	
APRILED2X5/DD	471	100	4.5	
APRILED2X5/DD/M3	471	100	5.09	
APRILED2X5/DD/MWS	471	100	4.54	
APRILED2X5/DD/MWS/M3	471	100	5.13	
APRILED2X5/DM3	471	100	5.09	
APRILED2X5/MWS	471	100	4.54	
APRILED2X5/MWS/M3	471	100	5.13	
APRILED2X5/OCTO	471	100	4.5	
APRILED2X5/OCTO/M3	471	100	5.09	
APRILED2X6	471	101	5.3	
APRILED2X6/DD	471	101	5.3	
APRILED2X6/DD/M3	471	101	5.89	
APRILED2X6/DD/MWS	471	101	5.34	
APRILED2X6/DD/MWS/M3	471	101	5.93	
APRILED2X6/M3	471	101	5.89	
APRILED2X6/MWS	471	101	5.34	
APRILED2X6/MWS/M3	471	101	5.93	
APRILED2X6/OCTO	471	101	5.3	
APRILED2X6/OCTO/M3	471	101	5.89	
APRILED4	471	100	3.5	
APRILED4/DD	471	100	3.5	
APRILED4/DD/M3	471	100	4.09	
APRILED4/DD/MWS	471	100	3.54	
APRILED4/DD/MWS/M3	471	100	4.13	
APRILED4/M3	471	100	4.09	
APRILED4/MWS	471	100	3.54	
APRILED4/MWS/M3	471	100	4.13	
APRILED4/OCTO	471	100	3.5	
APRILED4/OCTO/M3	471	100	4.09	
APRILED5	471	104	4.3	
APRILED5/DD	471	104	4.3	
APRILED5/DD/M3	471	104	4.89	
APRILED5/DD/MWS	471	104	4.43	
APRILED5/DD/MWS/M3	471	104	4.93	
APRILED5/M3	471	104	4.89	
APRILED5/MWS	471	104	4.43	
APRILED5/MWS/M3	471	104	4.93	
APRILED5/OCTO	471	104	4.3	
APRILED5/OCTO/M3	471	104	4.89	
APRILED6	471	114	5.1	
APRILED6/DD	471	114	5.1	
APRILED6/DD/M3	471	114	5.69	
APRILED6/DD/MWS	471	114	5.14	
APRILED6/DD/MWS/M3	471	114	5.73	
APRILED6/M3	471	114	5.69	
APRILED6/MWS	471	114	5.14	
APRILED6/MWS/M3	471	114	5.73	
APRILED6/OCTO	471	114	5.1	
APRILED6/OCTO/M3	471	114	5.69	
APYLED/KIT/CW	238	80	0.36	
APYLED/KIT/WW	238	75	0.36	
ARALED/ER/3NM/ST	126, 522	N/A	0.37	
ARALED/OA/3NM/ST	126, 522	N/A	0.37	
ARAZLED/LI/3M/DA	512	N/A	1.16	
ARAZLED/LI/3M/DA/B	512	N/A	1.144	
ARCLED/CW/SS	247	73	0.09	
ARCLED/CW/W	247	73	0.09	
ARCLED/WW/SS	247	66	0.09	
ARCLED/WW/W	247	66	0.09	
ARE27/HL/BL	354	N/A	2.17	
AREELED A	267	90-97	0.25	
AREELED D	267	90-97	0.22	
AREELED W	292	82-89	0.38	



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AREELEDWL/PIR	292	82-89	0.4		ASLED2X6/M3	445	83	5.48		ATLED/WL	277	73	0.99	
ARGU10	290	N/A	0.6		ASLED2X6/MWS	445	83	4.93		ATLED/WL/PIR	277	73	0.2	
ARIELED/CW	135	82	0.25		ASLED2X6/MWS/M3	445	83	5.5		ATLG/AB	151	N/A	0.2	
ARIELED/WW	135	76	0.25		ASLED4	445	82	2.1		ATLG/BLC	151	N/A	0.2	
ARLEDTL/CW	248	61	0.09		ASLED4/DD	445	82	2.1		ATLG/BR	151	N/A	0.2	
ARLEDTL/WW	248	56	0.09		ASLED4/DD/M3	445	82	2.68		ATLG/CH	151	N/A	0.2	
ARMK3	380, 381, 382	N/A	N/A		ASLED4/DD/MWS	445	82	2.12		ATLG/MW	151	N/A	0.2	
AROLEDSSS	387	60	1.29		ASLED4/DD/MWS/M3	445	82	2.7		ATLG/SC	151	N/A	0.2	
ARULEDP/WW/B	205	64	0.76		ASLED4/M3	445	82	2.68		ATLG/W	151	N/A	0.22	
ARULEDP/WW/W	205	64	0.76		ASLED4/MWS	445	82	2.12		ATLLED2X4	454	105	1.37	
ASBLED	334	73	0.47		ASLED4/MWS/M3	445	82	2.7		ATLLED2X4/DD	454	105	1.37	
ASBLED/110V	335	85	0.35		ASLED5	445	79	2.62		ATLLED2X4/DD/M3	454	105	1.95	
ASBLED/110V/MWS	335	85	0.37		ASLED5/DD	445	79	2.62		ATLLED2X4/M3	454	105	1.95	
ASBLED/110V/PC	335	85	0.37		ASLED5/DD/M3	445	79	3.2		ATLLED2X4/MWS	454	105	1.57	
ASBLED/DIFF/RED	335	N/A	0.11		ASLED5/DD/MWS	445	79	2.64		ATLLED2X4/MWS/M3	454	105	2.05	
ASBLED/MWS	334	73	0.49		ASLED5/DD/MWS/M3	445	79	3.22		ATLLED2X4/OCTO	454	105	1.37	
ASBLED/PC	334	73	0.49		ASLED5/M3	445	79	3.2		ATLLED2X4/OCTO/M3	454	105	1.95	
ASBP/1	497, 502	N/A	0.06		ASLED5/MWS	445	79	2.64		ATLLED2X5	454	103	1.69	
ASBP/10	128, 525	N/A	0.23		ASLED5/MWS/M3	445	79	3.22		ATLLED2X5/DD	454	103	1.69	
ASBP/12	112	N/A	0.86		ASLED6	445	84	3.1		ATLLED2X5/DD/M3	454	103	2.27	
ASBP/14	126, 522	N/A	0.06		ASLED6/DD	445	84	3.1		ATLLED2X5/M3	454	103	2.27	
ASBP/15	504	N/A	0.07		ASLED6/DD/M3	445	84	3.8		ATLLED2X5/MWS	454	103	1.79	
ASBP/16	504	N/A	0.34		ASLED6/DD/MWS	445	84	3.12		ATLLED2X5/MWS/M3	454	103	2.37	
ASBP/17	279	N/A	0.38		ASLED6/DD/MWS/M3	445	84	3.82		ATLLED2X5/OCTO	454	103	1.69	
ASBP/18	500, 506, 508	N/A	0.09		ASLED6/M3	445	84	3.8		ATLLED2X5/OCTO/M3	454	103	2.27	
ASBP/19	512	N/A	0.04		ASLED6/MWS	445	84	3.12		ATLLED2X6	454	114	1.93	
ASBP/2	501, 503, 507	N/A	0.15		ASLED6/MWS/M3	445	84	3.82		ATLLED2X6/DD	454	114	1.93	
ASBP/3	509	N/A	0.16		ASPELED/60/CCT	475	103-111	0.4		ATLLED2X6/DD/M3	454	114	2.51	
ASBP/4	510	N/A	0.06		ASPELED/60/CCT/DD	475	103-111	0.4		ATLLED2X6/M3	454	114	2.51	
ASBP/5	513	N/A	0.15		ASPELED/60/CCT/DD/DM3	475	103-111	1.2		ATLLED2X6/MWS	454	114	2.03	
ASBP/6	514, 517	N/A	0.54		ASPELED/60/CCT/DDM3	475	103-111	1.2		ATLLED2X6/MWS/M3	454	114	2.61	
ASBP/7	516	N/A	0.35		ASPELED/60/CCT/DD/SM3	475	103-111	1.2		ATLLED2X6/OCTO	454	114	1.93	
ASBP/8	123, 519	N/A	0.2		ASPELED/60/CCT/DM3	475	103-111	1.2		ATLLED2X6/OCTO/M3	454	114	2.51	
ASBP/9	124, 125, 126, 520, 521, 523	N/A	0.42		ASPELED/60/CCT/M3	475	103-111	1.2		ATLLED4	454	100	1.35	
ASCOLED/1/CCT	133	85-92	0.66		ASPELED/60/CCT/OCTO	475	103-111	0.4		ATLLED4/DD	454	100	1.35	
ASCOLED/1/CCT/DD	133	85-92	0.66		ASPELED/60/CCT/OCTO/M3	475	103-111	1.2		ATLLED4/DD/M3	454	100	1.93	
ASCOLED/1/CCT/OCTO	133	85-92	0.66		ASPELED/60/CCT/SM3	475	103-111	1.2		ATLLED4/M3	454	100	1.93	
ASCOLED/2/CCT	133	91-94	0.66		ASPGN/1LED/WHI	221	15	0.41		ATLLED4/MWS	454	100	1.45	
ASCOLED/2/CCT/DD	133	91-94	0.66		ASPRLED/LI/3M/DA	122, 518	N/A	0.46		ATLLED4/MWS/M3	454	100	2.03	
ASCOLED/2/CCT/OCTO	133	91-94	0.66		ASR2LED/B/CCT	333	83-90	0.75		ATLLED4/OCTO	454	100	1.35	
ASEC/G125/AB	206	N/A	0.4		ASR2LED/W/CCT	333	83-90	0.75		ATLLED4/OCTO/M3	454	100	1.93	
ASEC/G125/BLC	206	N/A	0.4		ASSULED0/CW/B	202	69	0.41		ATLLED5	454	107	1.68	
ASEC/ST64/AB	207	N/A	0.336		ASSULED0/CW/SS	202	69	0.41		ATLLED5/DD	454	107	1.68	
ASEC/ST64/BLC	207	N/A	0.339		ASSULED0/CW/W	202	69	0.41		ATLLED5/DD/M3	454	107	2.26	
ASEGLED	296	47	0.67		ASULED/1/CW	428	86	12		ATLLED5/M3	454	107	2.26	
ASELED/WL	275	52	0.5		ASULED/1/CW/PC	428	86	12.3		ATLLED5/MWS	454	107	1.78	
ASELED/WL/PIR	275	52	0.55		ASULED/1/WW	428	82	12		ATLLED5/MWS/M3	454	107	2.36	
ASELEDB/060	367	52	1.09		ASULED/1/WW/PC	428	82	12.3		ATLLED5/OCTO	454	107	1.68	
ASELEDB/100	367	52	1.7		ASULED/2/CW	428	77	12		ATLLED5/OCTO/M3	454	107	2.26	
ASFRELED230/CW	134	76	0.86		ASULED/2/CW/PC	428	77	12.3		ATLLED6	454	117	1.88	
ASFRELED230/WW	134	70	0.86		ASULED/2/WW	428	73	12		ATLLED6/DD	454	117	1.88	
ASGU10L	161	N/A	N/A		ASULED/2/WW/PC	428	73	12.3		ATLLED6/DD/M3	454	117	2.46	
ASIDLED/CW	464	106	2.9		ASUWOLED/CW	392	35	0.31		ATLLED6/M3	454	117	2.46	
ASIDLED5/CW	464	113	3.8		ASUWOLED/WW	392	35	0.31		ATLLED6/MWS	454	117	1.98	
ASK1	469	N/A	N/A		ASWTLED/3M	497	N/A	0.4		ATLLED6/MWS/M3	454	117	2.56	
ASLED/3NM	123, 519	N/A	0.36		ATA2X50	288	N/A	0.4		ATLLED6/OCTO	454	117	1.88	
ASLED/3NM/B	123, 519	N/A	0.36		ATALEDB/1000	377	53	3.65		ATLLED6/OCTO/M3	454	117	2.46	
ASLED2X4	445	79	3.14		ATALEDB/1000/M3	377	53	2.91		ATLSQG/CH	152	N/A	0.22	
ASLED2X4/DD	445	79	3.14		ATALEDB/1000/PIR	377	53	3.75		ATLSQG/SC	152	N/A	0.22	
ASLED2X4/DD/M3	445	79	3.66		ATALEDB/1000/PIR/M3	377	53	4.1		ATLSQG/W	152	N/A	0.15	
ASLED2X4/DD/MWS	445	79	3.16		ATASLED/WL	281	N/A	4.82		ATLVD/IP44/CH	155	N/A	0.15	
ASLED2X4/DD/MWS/M3	445	79	3.68		ATASLEDB/60	364	N/A	3.9		ATLVD/IP44/SC	155	N/A	0.15	
ASLED2X4/M3	445	79	3.66		ATCKLED/SI	249	27	0.64		ATLVD/IP44/W	155	N/A	0.15	
ASLED2X4/MWS	445	79	3.16		ATCKLED/W	249	27	0.64		ATLVOG/IP44/B	159	N/A	0.2	
ASLED2X4/MWS/M3	445	79	3.68		ATCSLED/SI	249	27	0.09		ATLVOG/IP44/SG	159	N/A	0.2	
ASLED2X5	445	84	4		ATCSLED/W	249	27	0.09		ATLVOG/IP44/W	159	N/A	0.2	
ASLED2X5/DD	445	84	4		ATL/BA	149	N/A	N/A		ATORLED2/110V	450	118	0.75	
ASLED2X5/DD/M3	445	84	4.57		ATLD/AB	149	N/A	0.2		ATORLED2/110V/MWS	450	118	0.77	
ASLED2X5/DD/MWS	445	84	4.02		ATLD/BLC	149	N/A	0.2		ATORLED2X2/110V	450	118	0.98	
ASLED2X5/DD/MWS/M3	445	84	4.59		ATLD/BR	149	N/A	0.2		ATORLED2X2/110V/MWS	450	118	1	
ASLED2X5/M3	445	84	4.57		ATLD/CH	149	N/A	0.2		ATORLED2X4	448	110	1.1	
ASLED2X5/MWS	445	84	4.02		ATLD/IP65/CH	156	N/A	0.25		ATORLED2X4/110V	450	110	1.29	
ASLED2X5/MWS/M3	445	84	4.59		ATLD/IP65/MW	156	N/A	0.25		ATORLED2X4/110V/M3	450	110	1.87	
ASLED2X6	445	83	4.91		ATLD/IP65/SC	156	N/A	0.25		ATORLED2X4/110V/MWS	450	110	1.31	
ASLED2X6/DD	445	83	4.91		ATLD/IP65/W	156	N/A	0.25		ATORLED2X4/110V/MWS/M3	450	110	1.89	
ASLED2X6/DD/M3	445	83	5.48		ATLD/MW	149	N/A	0.2		ATORLED2X4/DD	448	110	1.1	
ASLED2X6/DD/MWS	445	83	4.93		ATLD/SC	149	N/A	0.2		ATORLED2X4/DD/M3	448	110	1.68	
ASLED2X6/DD/MWS/M3	445	83	5.5		ATLD/W	149	N/A	0.2		ATORLED2X4/DD/MWS	448	110	1.12	



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ATORLED2X4/DD/MWS/M3	448	110	1.9	
ATORLED2X4/M3	448	110	1.68	
ATORLED2X4/MWS	448	110	1.12	
ATORLED2X4/MWS/M3	448	110	1.9	
ATORLED2X4/OCTO	448	110	1.1	
ATORLED2X4/OCTO/M3	448	110	1.68	
ATORLED2X5	448	110	2	
ATORLED2X5/110V	450	110	1.71	
ATORLED2X5/110V/M3	450	110	2.39	
ATORLED2X5/110V/MWS	450	110	1.73	
ATORLED2X5/110V/MWS/M3	450	110	2.41	
ATORLED2X5/DD	448	110	2	
ATORLED2X5/DD/M3	448	110	2.58	
ATORLED2X5/DD/MWS	448	110	2.02	
ATORLED2X5/DD/MWS/M3	448	110	2.8	
ATORLED2X5/M3	448	110	2.58	
ATORLED2X5/MWS	448	110	2.02	
ATORLED2X5/MWS/M3	448	110	2.8	
ATORLED2X5/OCTO	448	110	2	
ATORLED2X5/OCTO/M3	448	110	2.58	
ATORLED2X6	448	103	2.4	
ATORLED2X6/DD	448	103	2.4	
ATORLED2X6/DD/M3	448	103	2.98	
ATORLED2X6/DD/MWS	448	103	2.42	
ATORLED2X6/DD/MWS/M3	448	103	3.2	
ATORLED2X6/M3	448	103	2.98	
ATORLED2X6/MWS	448	103	2.42	
ATORLED2X6/MWS/M3	448	103	3.2	
ATORLED2X6/OCTO	448	103	2.4	
ATORLED2X6/OCTO/M3	448	103	2.98	
ATORLED4	448	104	0.78	
ATORLED4/110V	450	104	1.85	
ATORLED4/110V/M3	450	104	2.43	
ATORLED4/110V/MWS	450	104	1.87	
ATORLED4/110V/MWS/M3	450	104	2.45	
ATORLED4/DD	448	104	0.78	
ATORLED4/DD/M3	448	104	1.36	
ATORLED4/DD/MWS	448	104	0.8	
ATORLED4/DD/MWS/M3	448	104	1.58	
ATORLED4/M3	448	104	1.36	
ATORLED4/MWS	448	104	0.8	
ATORLED4/MWS/M3	448	104	1.58	
ATORLED4/OCTO	448	104	0.78	
ATORLED4/OCTO/M3	448	104	1.36	
ATORLED5	448	115	1.5	
ATORLED5/110V	450	115	2.41	
ATORLED5/110V/M3	450	115	2.99	
ATORLED5/110V/MWS	450	115	2.43	
ATORLED5/110V/MWS/M3	450	115	3.01	
ATORLED5/DD	448	115	1.5	
ATORLED5/DD/M3	448	115	2.08	
ATORLED5/DD/MWS	448	115	1.52	
ATORLED5/DD/MWS/M3	448	115	2.3	
ATORLED5/M3	448	115	2.08	
ATORLED5/MWS	448	115	1.52	
ATORLED5/MWS/M3	448	115	2.3	
ATORLED5/OCTO	448	115	1.5	
ATORLED5/OCTO/M3	448	115	2.08	
ATORLED6	448	109	1.8	
ATORLED6/DD	448	109	1.8	
ATORLED6/DD/M3	448	109	2.38	
ATORLED6/DD/MWS	448	109	1.82	
ATORLED6/DD/MWS/M3	448	109	2.6	
ATORLED6/M3	448	109	2.38	
ATORLED6/MWS	448	109	1.82	
ATORLED6/MWS/M3	448	109	2.6	
ATORLED6/OCTO	448	109	1.8	
ATORLED6/OCTO/M3	448	109	2.38	
ATORPLED2X4	446	109	2.27	
ATORPLED2X4/DD	446	109	2.27	
ATORPLED2X4/DD/DM3	446	109	3.27	
ATORPLED2X4/DD/M3	446	109	3.27	
ATORPLED2X4/DD/MWS	446	109	2.77	
ATORPLED2X4/DD/MWS/DM3	446	109	3.77	
ATORPLED2X4/DD/MWS/M3	446	109	3.77	
ATORPLED2X4/DM3	446	109	3.27	
ATORPLED2X4/M3	446	109	3.27	
ATORPLED2X4/MWS	446	109	2.77	

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ATORPLED2X4/MWS/DM3	446	109	3.77	
ATORPLED2X4/MWS/M3	446	109	3.77	
ATORPLED2X4/OCTO	446	109	2.27	
ATORPLED2X4/OCTO/DM3	446	109	3.27	
ATORPLED2X4/OCTO/M3	446	109	3.27	
ATORPLED2X5	446	104	3.05	
ATORPLED2X5/DD	446	104	3.05	
ATORPLED2X5/DD/DM3	446	104	4.05	
ATORPLED2X5/DD/M3	446	104	4.05	
ATORPLED2X5/DD/MWS	446	104	3.55	
ATORPLED2X5/DD/MWS/DM3	446	104	4.55	
ATORPLED2X5/DD/MWS/M3	446	104	4.55	
ATORPLED2X5/DM3	446	104	4.05	
ATORPLED2X5/M3	446	104	4.05	
ATORPLED2X5/MWS	446	104	3.55	
ATORPLED2X5/MWS/DM3	446	104	4.55	
ATORPLED2X5/MWS/M3	446	104	4.55	
ATORPLED2X5/OCTO	446	104	3.05	
ATORPLED2X5/OCTO/DM3	446	104	4.05	
ATORPLED2X5/OCTO/M3	446	104	4.05	
ATORPLED2X6	446	105	3.2	
ATORPLED2X6/DD	446	105	3.2	
ATORPLED2X6/DD/DM3	446	105	4.3	
ATORPLED2X6/DD/M3	446	105	4.3	
ATORPLED2X6/DD/MWS	446	105	3.7	
ATORPLED2X6/DD/MWS/DM3	446	105	4.8	
ATORPLED2X6/DD/MWS/M3	446	105	4.8	
ATORPLED2X6/DM3	446	105	4.3	
ATORPLED2X6/M3	446	105	4.3	
ATORPLED2X6/MWS	446	105	3.7	
ATORPLED2X6/MWS/DM3	446	105	4.8	
ATORPLED2X6/MWS/M3	446	105	4.8	
ATORPLED2X6/OCTO	446	105	3.2	
ATORPLED2X6/OCTO/DM3	446	105	4.3	
ATORPLED2X6/OCTO/M3	446	105	4.3	
ATORPLED4	446	117	2.13	
ATORPLED4/DD	446	117	2.13	
ATORPLED4/DD/DM3	446	117	3.13	
ATORPLED4/DD/M3	446	117	3.13	
ATORPLED4/DD/MWS	446	117	2.85	
ATORPLED4/DD/MWS/DM3	446	117	3.63	
ATORPLED4/DD/MWS/M3	446	117	3.63	
ATORPLED4/DM3	446	117	3.13	
ATORPLED4/M3	446	117	3.13	
ATORPLED4/MWS	446	117	2.85	
ATORPLED4/MWS/DM3	446	117	3.63	
ATORPLED4/MWS/M3	446	117	3.63	
ATORPLED4/OCTO	446	117	2.13	
ATORPLED4/OCTO/DM3	446	117	3.13	
ATORPLED4/OCTO/M3	446	117	3.13	
ATORPLED5	446	111	2.38	
ATORPLED5/DD	446	111	2.38	
ATORPLED5/DD/DM3	446	111	3.38	
ATORPLED5/DD/M3	446	111	3.38	
ATORPLED5/DD/MWS	446	111	2.63	
ATORPLED5/DD/MWS/DM3	446	111	3.88	
ATORPLED5/DD/MWS/M3	446	111	3.88	
ATORPLED5/DM3	446	111	3.38	
ATORPLED5/M3	446	111	3.38	
ATORPLED5/MWS	446	111	2.63	
ATORPLED5/MWS/DM3	446	111	3.88	
ATORPLED5/MWS/M3	446	111	3.88	
ATORPLED5/OCTO	446	111	2.38	
ATORPLED5/OCTO/DM3	446	111	3.38	
ATORPLED5/OCTO/M3	446	111	3.38	
ATORPLED6	446	106	2.8	
ATORPLED6/DD	446	106	2.8	
ATORPLED6/DD/DM3	446	106	3.8	
ATORPLED6/DD/M3	446	106	3.8	
ATORPLED6/DD/MWS	446	106	2.85	
ATORPLED6/DD/MWS/DM3	446	106	4.3	
ATORPLED6/DD/MWS/M3	446	106	4.3	
ATORPLED6/DM3	446	106	3.8	
ATORPLED6/M3	446	106	3.8	
ATORPLED6/MWS	446	106	2.85	
ATORPLED6/MWS/DM3	446	106	4.3	
ATORPLED6/MWS/M3	446	106	4.3	
ATORPLED6/OCTO	446	106	2.8	

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ATORPLED6/OCTO/DM3	446	106	3.8	
ATORPLED6/OCTO/M3	446	106	3.8	
ATRILED/B	283	87-88	1.52	
ATRILED/B/MWS	283	87-88	1.58	
ATRILED/B/MWS/PC	283	87-88	1.64	
ATRILED/B/PC	283	87-88	1.58	
ATRILED/G	283	87-88	1.52	
ATRILED/G/MWS	283	87-88	1.58	
ATRILED/G/MWS/PC	283	87-88	1.64	
ATRILED/G/PC	283	87-88	1.58	
ATSLED/3NM	516	N/A	3.25	
ATSLED/3NM/IP65/ST	514	N/A	1.8	
ATURWOLED/175	397	110	2.1	
ATURWOLED/175/WW	397	98	2.04	
ATURWOLED/230	398	116	2.85	
ATURWOLED/230/WW	398	106	3.63	
ATURWOLED/70	394	45	0.45	
ATURWOLED/70/2	394	N/A	0.12	
ATURWOLED/70/4	394	N/A	0.11	
ATURWOLED/70/WW	394	41	0.5	
ATURWOLED/95	396	97	0.45	
ATURWOLED/95/WW	396	75	0.8	
AUE27040/SS	359	N/A	2.04	
AUE27040/WE	360	N/A	1.7	
AUE27070/SS	359	N/A	3.08	
AUE27070/WE	360	N/A	2.44	
AULED1/SMP	99	49	0.6	
AULED1/SMP/DD	99	49	0.6	
AULED1/SMP/DD/M3	99	49	1.5	
AULED1/SMP/OCTO	99	49	0.6	
AULED1/SMP/OCTO/M3	99	49	1.5	
AULED1/SQU	101	88	1.22	
AULED1/SQU/DD	101	88	1.22	
AULED1/SQU/DD/M3	101	88	2.12	
AULED1/SQU/OCTO	101	88	1.22	
AULED1/SQU/OCTO/M3	101	88	2.12	
AULED100WW	92	74	0.36	
AULED100WW/DD	92	74	0.36	
AULED100WW/OCTO	92	74	0.36	
AULED100WW/WW	92	60	0.36	
AULED100WW/WW/DD	92	60	0.36	
AULED100WW/WW/OCTO	92	60	0.36	
AULED125D	83	72	0.62	
AULED125D/DD	83	72	0.62	
AULED125D/DD/M3	83	72	1.5	
AULED125D/M3	83	72	1.5	
AULED125D/OCTO	83	72	0.62	
AULED125D/OCTO/M3	83	72	1.5	
AULED125D/WW	83	66	0.62	
AULED125D/WW/DD	83	66	0.62	
AULED125D/WW/DD/M3	83	66	1.5	
AULED125D/WW/M3	83	66	1.5	
AULED125D/WW/OCTO	83	66	0.62	
AULED125D/WW/OCTO/M3	83	66	1.5	
AULED150D	84	88	1.11	
AULED150D/DD	84	88	1.11	
AULED150D/DD/M3	84	88	1.46	
AULED150D/M3	84	88	1.46	
AULED150D/OCTO	84	88	1.11	
AULED150D/OCTO/M3	84	88	1.46	
AULED150D/WW	84	78	1.11	
AULED150D/WW/DD	84	78	1.11	
AULED150D/WW/DD/M3	84	78	1.46	
AULED150D/WW/M3	84	78	1.46	
AULED150D/WW/OCTO	84	78	1.11	
AULED150D/WW/OCTO/M3	84	78	1.46	
AULED150DHP	86	95	1.19	
AULED150DHP/DD	86	95	1.19	
AULED150DHP/DD/M3	86	95	2.07	
AULED150DHP/M3	86	95	2.07	
AULED150DHP/OCTO	86	95	1.19	
AULED150DHP/OCTO/M3	86	95	2.07	
AULED150WWW	95	93	0.86	
AULED150WWW/DD	95	93	0.86	
AULED150WWW/OCTO	95	93	0.86	
AULED150WWW/WW	95	86	0.86	
AULED150WWW/WW/DD	95	86	0.86	
AULED150WWW/WW/OCTO	95	86	0.86	



# Product Price Index

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AULED175WW	96	88	1.21		AULEDS2/WW/W	182	86	0.78		AVFLED10	412	94	0.55	
AULED175WW/DD	96	88	1.21		AULEDS3/B	184	88	1.15		AVFLED10/PIR	412	94	0.57	
AULED175WW/OCTO	96	88	1.21		AULEDS3/SS	184	88	1.15		AVFLED100	413	102	2.56	
AULED175WW/WW	96	78	1.21		AULEDS3/W	184	88	1.15		AVFLED100/PC	413	102	2.66	
AULED175WW/WW/DD	96	78	1.21		AULEDS3/WW/B	184	78	1.15		AVFLED200	413	102	4.2	
AULED175WW/WW/OCTO	96	78	1.21		AULEDS3/WW/SS	184	78	1.15		AVFLED200/PC	413	102	4.3	
AULED2/REC	101	88	2.4		AULEDS3/WW/W	184	78	1.15		AVFLED30	412	97	0.88	
AULED2/REC/DD	101	88	2.4		AULEDS4/B	185	93	1.45		AVFLED30/PIR	412	97	0.9	
AULED2/REC/DD/M3	101	88	3.3		AULEDS4/SS	185	93	1.45		AVFLED50	412	96	1.25	
AULED2/REC/OCTO	101	88	2.4		AULEDS4/W	185	93	1.45		AVFLED50/PC	412	96	1.35	
AULED2/REC/OCTO/M3	101	88	3.3		AULEDS4/WW/B	185	88	1.45		AVILED/CCT/GR	328	83-84	1.12	
AULED2/RMP	99	49	1.09		AULEDS4/WW/SS	185	88	1.45		AVILED/CCT/GR/DD	328	83-84	1.12	
AULED2/RMP/DD	99	49	1.09		AULEDS4/WW/W	185	88	1.45		AVILED/CCT/GR/DDM3	328	83-84	1.48	
AULED2/RMP/DD/M3	99	49	2		AULEDSW/CW/B	186	31	0.58		AVILED/CCT/GR/DDMWS	328	83-84	1.14	
AULED2/RMP/OCTO	99	49	1.09		AULEDSW/CW/W	186	31	0.58		AVILED/CCT/GR/DDMWSM3	328	83-84	1.5	
AULED2/RMP/OCTO/M3	99	49	2		AULEDSW/WW/B	186	26	0.58		AVILED/CCT/GR/M3	328	83-84	1.48	
AULED80D	78	70	0.29		AULEDSW/WW/W	186	26	0.58		AVILED/CCT/GRMWS	328	83-84	1.14	
AULED80D/DD	78	70	0.29		AUMLED/B/AC	164	N/A	0.0063		AVILED/CCT/GR/MWSM3	328	83-84	1.5	
AULED80D/DD/M3	78	70	1.4		AUMLED/B/BC	164	N/A	0.025		AVILED/CCT/GR/PC	328	83-84	1.22	
AULED80D/M3	78	70	1.4		AUMLED/B/CW	165	36-38	0.12		AVILED/CCT/SG	328	83-84	1.12	
AULED80D/OCTO	78	70	0.29		AUMLED/B/DE	164	N/A	0.0015		AVILED/CCT/SG/DD	328	83-84	1.12	
AULED80D/OCTO/M3	78	70	1.4		AUMLED/B/LC	164	N/A	0.008		AVILED/CCT/SG/DDM3	328	83-84	1.48	
AULED80D/WW	78	60	0.29		AUMLED/B/LE	164	N/A	0.01		AVILED/CCT/SG/DDMWS	328	83-84	1.14	
AULED80D/WW/DD	78	60	0.29		AUMLED/B/SC	164	N/A	0.008		AVILED/CCT/SG/DDMWSM3	328	83-84	1.5	
AULED80D/WW/DD/M3	78	60	1.4		AUMLED/B/WW	165	21	0.12		AVILED/CCT/SG/M3	328	83-84	1.48	
AULED80D/WW/M3	78	60	1.4		AUMLED/W/AC	164	N/A	0.0063		AVILED/CCT/SG/MWS	328	83-84	1.14	
AULED80D/WW/OCTO	78	60	0.29		AUMLED/W/BC	164	N/A	0.025		AVILED/CCT/SGMWSM3	328	83-84	1.5	
AULED80D/WW/OCTO/M3	78	60	1.4		AUMLED/W/CW	165	36-38	0.12		AVILED/CCT/SG/PC	328	83-84	1.22	
AULED80GIM	80	70	0.32		AUMLED/W/DE	164	N/A	0.0015		AVILED/CCT/W	328	83-84	1.12	
AULED80GIM/DD	80	70	0.32		AUMLED/W/LC	164	N/A	0.008		AVILED/CCT/W/M3	328	83-84	1.48	
AULED80GIM/DD/M3	80	70	1.42		AUMLED/W/LE	164	N/A	0.01		AVILED/CCT/W/MWS	328	83-84	1.14	
AULED80GIM/M3	80	70	1.42		AUMLED/W/SC	164	N/A	0.008		AVILED/CCT/W/MWS/M3	328	83-84	1.5	
AULED80GIM/OCTO	80	70	0.32		AUMLED/W/WW	165	21	0.12		AVILED/CCT/W/PC	328	83-84	1.22	
AULED80GIM/OCTO/M3	80	70	1.42		AUNIVLED	214	72	0.74		AVILED/HP/GR	329	78	2.36	
AULED80GIM/WW	80	60	0.32		AUNLED	282	37	1.7		AVILED/HP/GR/DD	329	78	2.36	
AULED80GIM/WW/DD	80	60	0.32		AUNLED/SG	282	37	1.7		AVILED/HP/GR/DD/M3	329	78	2.72	
AULED80GIM/WW/DD/M3	80	60	1.42		AUSQLED100D/CW	88	82	0.34		AVILED/HP/GR/DD/MWS	329	78	2.38	
AULED80GIM/WW/M3	80	60	1.42		AUSQLED100D/CWDD	88	82	0.34		AVILED/HP/GR/DD/MWS/M3	329	78	2.8	
AULED80GIM/WW/OCTO	80	60	0.32		AUSQLED100D/CWDDM3	88	82	0.34		AVILED/HP/GR/M3	329	78	2.72	
AULED80GIM/WW/OCTO/M3	80	60	1.42		AUSQLED100D/CWM3	88	82	0.34		AVILED/HP/GR/MWS	329	78	2.38	
AULEDGCP/CW	74	37	0.13		AUSQLED100D/CWOCTO	88	82	0.34		AVILED/HP/GR/MWS/M3	329	78	2.8	
AULEDGCP/CW/OCTO	74	37	0.13		AUSQLED100D/CWOCTOM3	88	82	0.34		AVILED/HP/GR/PC	329	78	2.46	
AULEDGCP/WW	74	32	0.13		AUSQLED125D/CW	89	91	0.7		AVILED/HP/SG	329	78	2.36	
AULEDGCP/WW/OCTO	74	32	0.13		AUSQLED125D/CWDD	89	91	0.7		AVILED/HP/SG/DD	329	78	2.36	
AULEDGCP1/CW	76	40	0.08		AUSQLED125D/CWDDM3	89	91	0.7		AVILED/HP/SG/DD/M3	329	78	2.72	
AULEDGCP1/WW	76	38	0.08		AUSQLED125D/CWM3	89	91	0.7		AVILED/HP/SG/DD/MWS	329	78	2.38	
AULEDGCP2/CW	76	33	0.13		AUSQLED125D/CWOCTO	89	91	0.7		AVILED/HP/SG/DD/MWS/M3	329	78	2.8	
AULEDGCP2/WW	76	32	0.13		AUSQLED125D/CWOCTOM3	89	91	0.7		AVILED/HP/SG/M3	329	78	2.72	
AULEDGCP3/CW	76	42	0.26		AUSQLED150DHP/CW	90	92	0.75		AVILED/HP/SG/MWS	329	78	2.38	
AULEDGCP3/WW	76	39	0.26		AUSQLED150DHP/CWDD	90	92	0.75		AVILED/HP/SG/MWS/M3	329	78	2.8	
AULEDLP1/B	177	53	0.29		AUSQLED150DHP/CWDDM3	90	92	0.75		AVILED/HP/SG/PC	329	78	2.46	
AULEDLP1/W	177	53	0.29		AUSQLED150DHP/CWM3	90	92	0.75		AVILED/HP/W	329	78	2.36	
AULEDLP1/WW/B	177	52	0.29		AUSQLED150DHP/CWOCTO	90	92	0.75		AVILED/HP/W/M3	329	78	2.72	
AULEDLP1/WW/W	177	52	0.29		AUSQLED150DHP/CWOCTOM3	90	92	0.75		AVILED/HP/W/MWS	329	78	2.38	
AULEDLP2/B	178	71	0.45		AUTRA/110/20	184	N/A	N/A		AVILED/HP/W/MWS/M3	329	78	2.8	
AULEDLP2/W	178	71	0.45		AUTRA/110/60	184	N/A	N/A		AVILED/HP/W/PC	329	78	2.46	
AULEDLP2/WW/B	178	65	0.45		AUTRA/60/40	179	N/A	N/A		AVIMLED/GR	327	89	0.66	
AULEDLP2/WW/W	178	65	0.45		AUTRA/80/20	179	N/A	N/A		AVIMLED/GR/PC	327	89	0.76	
AULEDRECWW	97	85	1.5		AUTRA/80/70	182	N/A	N/A		AVIMLED/SG	327	89	0.66	
AULEDRECWW/DD	97	85	1.5		AVASLED	463	96-106	2.15		AVIMLED/SG/PC	327	89	0.76	
AULEDRECWW/OCTO	97	85	1.5		AVASLED/B	463	96-106	2.15		AVIMLED/W	327	89	0.66	
AULEDS0/CW/B	179	69	0.32		AVASLED/LC	463	N/A	0.05		AVIMLED/W/PC	327	89	0.76	
AULEDS0/CW/SS	179	69	0.32		AVASLED5	463	88-107	3.35		AVLED/KIT	239	N/A	0.58	
AULEDS0/CW/W	179	69	0.32		AVASLED5/B	463	88-107	3.35		AVOLEDSWL	347	43	1.65	
AULEDS0/WW/B	179	63	0.32		AVEGLED/1/CW	111	84	0.5		AWLED/3M	509	N/A	1.02	
AULEDS0/WW/SS	179	63	0.32		AVEGLED/1/CW/M3	111	84	2.52		AWLED/L/AD	509	N/A	N/A	
AULEDS0/WW/W	179	63	0.32		AVEGLED/1/WW	111	82	0.5		AWLED/L/LAL	509	N/A	N/A	
AULEDS1/B	180	63	0.67		AVEGLED/1/WW/M3	111	82	2.52		AWLED/L/AR	509	N/A	N/A	
AULEDS1/SS	180	63	0.67		AVEGLED/2/CW	111	84	0.5		AWLED/L/AU	509	N/A	N/A	
AULEDS1/W	180	63	0.67		AVEGLED/2/CW/M3	111	84	2.52		AWLED/LI/3M/ST	508	N/A	0.88	
AULEDS1/WW/B	180	63	0.67		AVEGLED/2/WW	111	83	0.5		AWO/GU10	403	N/A	1.26	
AULEDS1/WW/SS	180	63	0.67		AVEGLED/2/WW/M3	111	83	2.52		AWO50	402	N/A	1.08	
AULEDS1/WW/W	180	63	0.67		AVENLED	489	98	4.22		AWZILED10	420	84	0.24	
AULEDS2/B	182	93	0.78		AVENLED/DD	489	98	4.22		AWZILED10/PIR	420	84	0.27	
AULEDS2/SS	182	93	0.78		AVENLED/DD/M3	489	98	5.31		AWZILED10/WW	420	77	0.24	
AULEDS2/W	182	93	0.78		AVENLED/M3	489	98	5.31		AWZILED10/WW/PIR	420	77	0.27	
AULEDS2/WW/B	182	86	0.78		AVENLED/OCTO	489	98	4.22		AWZILED20	420	90	0.43	
AULEDS2/WW/SS	182	86	0.78		AVENLED/OCTO/M3	489	98	5.31		AWZILED20/PIR	420	90	0.45	

Product Code	Page	Lm/W	Kg	Trade
AWZILED20/WW	420	83	0.43	
AWZILED20/WW/PIR	420	83	0.45	
AWZILED30	420	84	0.43	
AWZILED30/PIR	420	84	0.45	
AWZILED30/WW	420	78	0.43	
AWZILED30/WW/PIR	420	78	0.45	
AWZILED50	420	94	0.71	
AWZILED50/PIR	420	94	0.73	
AWZILED50/WW	420	84	0.71	
AWZILED50/WW/PIR	420	84	0.73	
AZATLED	295	41	0.61	
AZGU10S/SS	170	N/A	0.11	
AZGU10S/W	170	N/A	0.11	
AZILED10	418	84	0.24	
AZILED10/PIR	418	84	0.27	
AZILED10/WW	418	77	0.24	
AZILED10/WW/PIR	418	77	0.27	
AZILED20	418	90	0.43	
AZILED20/PIR	418	90	0.45	
AZILED20/WW	418	83	0.43	
AZILED20/WW/PIR	418	83	0.45	
AZILED30	418	84	0.43	
AZILED30/PIR	418	84	0.45	
AZILED30/WW	418	78	0.43	
AZILED30/WW/PIR	418	78	0.45	
AZILED50	418	94	0.71	
AZILED50/PIR	418	94	0.73	
AZILED50/WW	418	84	0.71	
AZILED50/WW/PIR	418	84	0.73	
AZLED/1	439	121	2.94	
AZLED/1/DL	439	130	2.94	
AZLED/1/DL/M3	439	130	4.64	
AZLED/1/DL/MWS	439	130	3.24	
AZLED/1/DL/MWS/M3	439	130	4.94	
AZLED/1/M3	439	121	4.64	
AZLED/1/MWS	439	121	3.24	
AZLED/1/MWS/M3	439	121	4.94	
AZLED/2	439	122	3.05	
AZLED/2/DL	439	127	3.05	
AZLED/2/DL/M3	439	127	4.75	
AZLED/2/DL/MWS	439	127	3.35	
AZLED/2/DL/MWS/M3	439	127	5.05	
AZLED/2/M3	439	122	4.75	
AZLED/2/MWS	439	122	3.35	
AZLED/2/MWS/M3	439	122	5.05	
AZLED/3	439	121	4.9	
AZLED/3/DL	439	129	4.9	
AZLED/3/DL/M3	439	129	6.6	
AZLED/3/DL/MWS	439	129	5.2	
AZLED/3/DL/MWS/M3	439	129	6.9	
AZLED/3/M3	439	121	6.6	
AZLED/3/MWS	439	121	4.96	
AZLED/3/MWS/M3	439	121	6.9	
AZLED/FB1	439	N/A	0.63	
AZLED/MWSP	439	N/A	0.24	
AZLED/REF	439	N/A	0.34	
AZTR/SS	170	N/A	N/A	
AZTR/W	170	N/A	N/A	



# Terms & Conditions

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## Conditions of Sale

### 1. INTERPRETATION

- 1.1 The definitions and rules of interpretation in this condition apply in these conditions.  
Customer: the person, firm or company who purchases the Goods from the Company.  
Company: Ansell Lighting  
Contract: any contract between the Company and the Customer for the sale and purchase of the Goods, incorporating these conditions.  
Delivery Point: the place where delivery of the Goods is to take place under condition 4.  
Goods: any goods agreed in the Contract to be supplied to the Customer by the Company (including any part or parts of them).  
A reference to a law is a reference to it as it is in force for the time being taking account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.
- 1.2 Words in the singular include the plural and in the plural include the singular.
- 1.3 A reference to one gender includes a reference to the other gender.
- 1.4 Condition headings do not affect the interpretation of these conditions.

### 2. APPLICATION OF TERMS

- 2.1 Subject to any variation under condition 2.3 the Contract shall be on these conditions to the exclusion of all other terms and conditions (including any terms or conditions which the Customer purports to apply under any purchase order, confirmation of order, specification or other document).
- 2.2 No terms or conditions endorsed on, delivered with or contained in the Customer's purchase order, confirmation of order, specification or other document shall form part of the Contract simply as a result of such document being referred to in the Contract.
- 2.3 These conditions apply to all the Company's sales and any variation to these conditions and any representations about the Goods shall have no effect unless expressly agreed in writing and signed by a duly authorised officer of the Company. The Customer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Company which is not set out in the Contract. Nothing in this condition shall exclude or limit the Company's liability for fraudulent misrepresentation.
- 2.4 Each order for Goods by the Customer from the Company shall be deemed to be an offer by the Customer to buy Goods subject to these conditions.
- 2.5 No order placed by the Customer shall be deemed to be accepted by the Company until the Company delivers the Goods to the Customer.
- 2.6 The Customer shall ensure that the terms of its order and any applicable specification are complete and accurate and in writing.
- 2.7 Any quotation is valid for a period of 30 days only from its date, provided that the Company has not previously withdrawn it.

### 3. DESCRIPTION

- All samples, drawings, descriptive matter, specifications and advertising issued by the Company and any descriptions or illustrations contained in the Company's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They shall not form part of the Contract and this is not a sale by sample.

### 4. DELIVERY

- 4.1 Unless otherwise agreed in writing by the Company, delivery of the Goods shall take place at the Customer's place of business unless the Goods are collected by the Customer when delivery shall take place at the Company's place of business.
- 4.2 Any dates specified by the Company for delivery of the Goods are intended to be an estimate and time for delivery shall not be made of the essence by notice. If no dates are so specified, delivery shall be within a reasonable time.
- 4.3 Subject to the other provisions of these conditions the Company shall not be liable for any direct, indirect or consequential loss (all three of which terms include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and similar loss), costs, damages, charges or expenses caused directly or indirectly by any delay in the delivery of the Goods (even if caused by the Company's negligence), nor shall any delay entitle the Customer to terminate or rescind the Contract unless such delay exceeds 90 days. The Customer shall provide at the Delivery Point and at its expense adequate and appropriate equipment and manual labour for loading the Goods.
- 4.4 The Company may deliver the Goods by separate instalments. Each separate instalment shall be invoiced and paid for in accordance with the provisions of the Contract.
- 4.5 Each instalment shall be a separate Contract and no cancellation or termination of any one Contract relating to an instalment shall entitle the Customer to repudiate or cancel any other Contract or instalment.

### 5. NON-DELIVERY

- 5.1 The quantity of any consignment of Goods as recorded by the Company on despatch from the Company's place of business shall be conclusive evidence of the quantity received by the Customer on delivery unless the Customer can provide conclusive evidence proving the contrary.
- 5.2 The Company shall not be liable for any non-delivery of Goods (including shortage in quantity of Goods delivered) (even if caused by the Company's negligence) unless the Customer gives written notice to the Company of the non-delivery or shortage in quantity within three days of the date when the Goods would in the ordinary course of events have been received or in the case of a shortfall in quantity the remaining Goods

have been received.

- 5.3 Any liability of the Company in relation to this clause 5 shall be limited to replacing the non delivered Goods within a reasonable time or issuing a credit note at the pro rata Contract rate against any invoice raised for such Goods.

### 6. RISK/TITLE

- 6.1 The Goods are at the risk of the Customer from the time of delivery.
- 6.2 Ownership of the Goods shall not pass to the Customer until the Company has received in full (in cash or cleared funds) all sums due to it in respect of:
- (a) the Goods; and
  - (b) all other sums which are or which become due to the Company from the Customer on any account.
- 6.3 Until ownership of the Goods has passed to the Customer, the Customer shall:
- (a) hold the Goods on a fiduciary basis as the Company's bailee;
  - (b) store the Goods (at no cost to the Company) separately from all other goods of the Customer or any third party in such a way that they remain readily identifiable as the Company's property;
  - (c) not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods; and
  - (d) maintain the Goods in satisfactory condition and keep them insured on the Company's behalf for their full price against all risks to the reasonable satisfaction of the Company. On request the Customer shall produce the policy of insurance to the Company.
- 6.4 The Customer's right to possession of the Goods shall terminate immediately if:
- (a) the Customer has a bankruptcy order made against him or makes an arrangement or composition with his creditors, or otherwise takes the benefit of any statutory provision for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a receiver and/or manager, administrator or administrative receiver appointed of its undertaking or any part thereof, or documents are filed with the court for the appointment of an administrator of the Customer or notice of intention to appoint an administrator is given by the Customer or its directors or by a qualifying floating charge holder (as defined in paragraph 14 of Schedule B1 to the Insolvency act 1986), or a resolution is passed or a petition presented to any court for the winding-up of the Customer or for the granting of an administration order in respect of the Customer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Customer; or
  - (b) the Customer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him/it, or fails to observe or perform any of his/its obligations under the Contract or any other contract between the Company and the Customer, or is unable to pay its debts within the meaning of section 123 of the Insolvency act 1986 or the Customer ceases to trade; or
  - (c) the Customer encumbers or in any way charges any of the Goods.
- 6.5 The Company shall be entitled to recover payment for the Goods notwithstanding that ownership of any of the Goods has not passed from the Company.
- 6.6 The Customer grants the Company, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Customer's right to possession has terminated, to recover them.
- 6.7 Where the Company is unable to determine whether any Goods are the goods in respect of which the Customer's right to possession has terminated, the Customer shall be deemed to have sold all goods of the kind sold by the Company to the Customer in the order in which they were invoiced to the Customer.
- 6.8 On termination of the Contract, howsoever caused, the Company's (but not the Customer's) rights contained in this condition 6 shall remain in effect.

### 7. PRICE

- 7.1 Unless otherwise agreed by the Company in writing, the price for the Goods shall be the price set out in the Company's price list published on the date of delivery or deemed delivery.
- 7.2 The price for the Goods shall be exclusive of any value added tax
- 7.3 Our catalogue, price lists and website contain a large number of products. It is always possible that, despite our reasonable efforts, some of the products may be incorrectly priced. If we discover an error in the price of any product you have ordered we will inform you of this error as soon as possible and we will give you the option of continuing to purchase the product at the correct price or cancelling your order.

### 8. PAYMENT

- 8.1 Subject to condition 8.4, payment of the price for the Goods is due in full within terms notified.
- 8.2 Time for payment shall be of the essence.
- 8.3 No payment shall be deemed to have been received until the Company has received cleared funds.
- 8.4 All payments payable to the Company under the Contract shall become due immediately on its termination despite any other provision.
- 8.5 The Customer shall make all payments due under the Contract in full without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Customer has a valid court order requiring an amount equal to such deduction to be paid by the Company to the Customer.

# Terms & Conditions

- 8.6 If the Customer fails to pay the Company any sum due pursuant to the Contract, the Company reserves the right to claim interest under the provisions of the Late Payment of Commercial Debts (Interest) Act 1998..
- 9. QUALITY**
- 9.1 The Company warrants that (subject to the other provisions of these conditions) on delivery and for a period of 12 months from the date of delivery the Goods shall be of satisfactory quality within the meaning of the Sale of Goods Act 1979
- 9.2 The Company shall not be liable for a breach of the warranty in condition 9.1 unless:
- (a) the Customer gives written notice of the defect to the Company, and, if the defect is as a result of damage in transit to the carrier, within 3 days of the time when the Customer discovers or ought to have discovered the defect; and
- (b) the Company is given a reasonable opportunity after receiving the notice of examining such Goods and the Customer (if asked to do so by the Company) returns such Goods to the Company's place of business at the Company's cost for the examination to take place there.
- 9.3 The Company shall not be liable for a breach of the warranty in condition 9.1 if:
- (a) the Customer makes any further use of such Goods after giving such notice; or
- (b) the defect arises because the Customer failed to follow the Company's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good trade practice; or
- (c) the Customer alters or repairs such Goods without the written consent of the Company.
- 9.4 Subject to condition 9.2 and condition 9.3, if any of the Goods do not conform with the warranty in condition 9.1 the Company shall at its option repair or replace such Goods (or the defective part) or refund the price of such Goods at the pro rata Contract rate provided that, if the Company so requests, the Customer shall, at the Company's expense, return the Goods or the part of such Goods which is defective to the Company.
- 9.5 If the Company complies with condition 9.4 it shall have no further liability for a breach of the warranty in condition 9.1 in respect of such Goods.
- 9.6 Any Goods replaced shall belong to the Company and any repaired or replacement Goods shall be guaranteed on these terms for the unexpired portion of the 12 month period.
- 9.7 Under no circumstances will charges for any repair or remedial work, including labour cost or equipment hire, be accepted without prior written consent and agreement from Ansell.
- 10. LIMITATION OF LIABILITY**
- 10.1 All warranties, conditions and other terms implied by statute or common law (save for the conditions implied by section 12 of the Sale of Goods Act 1979) are, to the fullest extent permitted by law, excluded from the Contract.
- 10.2 Nothing in these conditions excludes or limits the liability of the Company:
- (a) for death or personal injury caused by the Company's negligence; or
- (b) for any matter which it would be illegal for the Company to exclude or attempt to exclude its liability; or
- (c) for fraud or fraudulent misrepresentation.
- 10.3 Subject to condition 10.1:
- (a) the Company's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of the Contract shall be limited to the Contract price; and
- (b) the Company shall not be liable to the Customer for loss of profit, loss of business, or depletion of goodwill in each case whether direct, indirect or consequential, or any claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.
- 11. ASSIGNMENT**
- 11.1 The Company may assign the Contract or any part of it to any person, firm or company.
- 11.2 The Customer shall not be entitled to assign the Contract or any part of it without the prior written consent of the Company.
- 12. FORCE MAJEURE**
- The Company reserves the right to defer the date of delivery or to cancel the Contract or reduce the volume of the Goods ordered by the Customer (without liability to the Customer) if it is prevented from or delayed in the carrying on of its business due to circumstances beyond the reasonable control of the Company including, without limitation, acts of God, governmental actions, war or national emergency, acts of terrorism, protests, riot, civil commotion, fire, explosion, flood, epidemic, lock-outs, strikes or other labour disputes (whether or not relating to either party's workforce), or restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials, provided that, if the event in question continues for a continuous period in excess of 90 days, the Customer shall be entitled to give notice in writing to the Company to terminate the Contract.
- 13. GENERAL**
- 13.1 Each right or remedy of the Company under the Contract is without prejudice to any other right or remedy of the Company whether under the Contract or not.
- 13.2 If any provision of the Contract is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of the Contract and the remainder of such provision shall continue in full force and effect.
- 13.3 Failure or delay by the Company in enforcing or partially enforcing any provision of the Contract shall not be construed as a waiver of any of its rights under the Contract.
- 13.4 Any waiver by the Company of any breach of, or any default under, any provision of the Contract by the Customer shall not be deemed a waiver of any subsequent breach or default and shall in no way affect the other terms of the Contract.
- 13.5 The parties to the Contract do not intend that any term of the Contract shall be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it.
- 13.6 The formation, existence, construction, performance, validity and all aspects of the Contract shall be governed by the law appropriate to the country of residence of the Ansell company supplying the goods and the parties submit to the exclusive jurisdiction of the relevant courts.
- 14. COMMUNICATIONS**
- 14.1 All communications between the parties about the Contract shall be in writing and delivered by hand or sent by pre-paid first class post, sent by fax or Email:
- (a) (in case of communications to the Company) to its registered office and copied (if different from the Company's principal place of business as shown on the invoice rendered by the Company for the Goods) to said principal place of business or such changed address as shall be notified to the Customer by the Company; or
- (b) (in the case of the communications to the Customer) to the registered office of the addressee (if it is a company) or (in any other case) to any address of the Customer set out in any document which forms part of the Contract or such other address as shall be notified to the Company by the Customer.
- 14.2 Communications shall be deemed to have been received:
- (a) if sent by pre-paid first class post, two days (excluding Saturdays, Sundays and bank and public holidays) after posting (exclusive of the day of posting); or
- (b) if delivered by hand, on the day of delivery; or
- (c) if sent by fax on a working day prior to 4.00 pm, at the time of transmission and otherwise on the next working day.
- 15. ORDER VALUE**
- 15.1 Please contact the Ansell Sales Office for value of carriage paid orders.
- 16. PURCHASE ORDERS**
- 16.1 Written and priced orders will only be accepted.
- 17. DIRECT DELIVERIES**
- 17.1 Ansell are unable to accept any liability for lost or misplaced goods once they have been delivered with a clear signature at a specified direct delivery address.
- 18. GOODS FOR RETURN**
- 18.1 Under no circumstances may goods be returned without a documented authorisation number from Ansell sales office. Unauthorised returns will not be accepted. Goods will only be accepted for the stated reason.
- 18.2 The documented authorisation numbers from Ansell sales office will only be valid for 28 days after being issued and goods returned outside this period may be refused.
- 18.3 Ansell will make every effort to issue a credit note for returned goods within 28 days of receiving the goods. If a credit note has not been issued within this 28 day period it is the responsibility of the customer to investigate such outstanding credits with Ansell in a timely manner.
- 18.4 All faulty goods returned are inspected and tested. Any found to be in perfect working order will be returned and re-invoiced, together with any applicable carriage charges.
- 18.5 Goods purchased within a twelve week period and no longer required, might be accepted for return at the discretion of Ansell. Upon authorisation, it is the responsibility of the customer to return the consignment, ensuring that the goods are in full working order and in a re-saleable condition. Products and product boxes that are damaged (including transit damage), defaced or with broken seals will not be accepted for return and it is the responsibility of the customer to ensure compliance.
- 18.6 Products with remote or integral emergency cannot be accepted for return under any circumstances.
- 19. PRODUCTS MADE TO ORDER**
- 19.1 Orders for specials ie variations to standard products or products not defined as stock items, are ordered and supplied on a strictly non-returnable basis.
- 19.2 Non-cancellable order basis. Under no circumstances will the company accept returns in full or partial quantities.
- 20. SPECIFICATION**
- 20.1 It is the responsibility of the purchaser to ensure that any product selected is suitable and / or applicable for the intended installation.
- 21. COPYRIGHT**
- 21.1 All products, names, drawings and descriptions may not be reproduced in any form whatsoever without prior written consent from Ansell.
- 22. PROTECTION OF PERSONAL DATA**
- 22.1 The Company and the Customer undertake to comply with Regulation (EU)



# Warranty Information

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## **WARRANTY AND PERIOD**

Ansell Lighting warrants only to the original end user that the products and parts manufactured will be free from defects in material and workmanship for the warranty period. The warranty period is determined commencing upon date of invoice to the end user or, if the end user cannot provide proof of invoice, then the dispatch date from Ansell Lighting.

LED warranty period is based on an average operating usage of eight hours per day and applies where failures exceed a component manufacturers expected failure rate and lumen depreciation.

## **ANSELL LIGHTING OBLIGATION UNDER WARRANTY**

Ansell Lighting's sole obligation under the warranty, shall be to repair or provide replacement product(s) during the warranty period. Ansell Lighting does not assume responsibility for delays in replacement or repair of products or parts. Products and parts repaired or replaced by Ansell Lighting under warranty, shall be warranted for the balance of the original warranty period.

## **DISCLAIMER OF ALL OTHER WARRANTIES**

No other warranties, expressed or implied, are given, and Ansell Lighting expressly disclaims all other warranties, including and without limitation, the implied warranties of merchantability and fitness for purpose.

## **LIMITATIONS**

No salesperson, representative, distributor or agent of Ansell Lighting, is authorised to make any guarantee, warranty, or representation that contradicts the terms contained in this Limited Warranty. Any Waiver, alteration, addition, or modification to the warranties contained herein must be in writing and signed by an authorised representative of Ansell Lighting to be binding and enforceable. Ansell Lighting does not assume responsibility for any specific application to which any products or parts of products are applied including, but not limited to, compatibility with other products. Ansell Lighting will not accept any responsibility or warrant any product that has been tampered with or has been changed, altered or wrongly installed. All statements, technical information, or recommendations relating to the products or parts issued by Ansell Lighting are based upon tests believed to be reliable, but do not constitute a guarantee or warranty. Ansell Lighting shall not under any circumstances be liable to any party for loss of profits, loss of goodwill, or any other special, consequential, or incidental damages whatsoever, with respect to any claim in connection with products or parts manufactured by Ansell Lighting or products or parts used in any product or products manufactured by Ansell Lighting

## **EXCLUSIONS TO THE WARRANTY**

The limited warranty shall be null and void in the following circumstances :-

1. Modification or repair of any covered product or part by the installer, end user or any non-authorised Ansell Lighting service provider
2. Improper use or installation, failure to conduct regular maintenance or cleaning, or damage by accident or neglect, of any covered product or part by the end user or any third party. In particular, all AISI316L stainless steel products must be cleaned with the Ansell cleaning kit ASSCK every three months to keep the features of the product unaltered.
3. Failure by the installer, end user or any third party to exercise caution to protect any covered product or part from outside damage, adverse temperature (normal operating ambient temperature 0 - 25°C), humidity conditions, fluctuations in the electrical system or physical abuse as well as failure related to workmanship in the installation of the product or parts.
4. Ansell Lighting will not assume responsibility for corrosion or other resulting damage to products where they are installed in areas in which fertilizer or chemicals are present, either in the air or in the soil or where products are installed near to chemical plants etc., or areas with emissions of heavy polluted air.
5. Failure of supplied lamps: all lamps have a manufacturers average lamp life and can fail before or after the prescribed average. Lamp life is reduced by switching cycles, temperature and voltage fluctuations outside of their operational range.
6. It is essential that the battery packs within all emergency luminaires are replaced after a four year period. All emergency luminaires must be tested in accordance with BS EN 5266-8-2004. Increased frequency of emergency testings may result in the premature replacement of battery pack before the standard four year period. Batteries are supplied with a 24 month warranty only.











## **Important Information**

The information, technical specification and photography contained in this catalogue is representative of general models, correct at time of going to press. All dimensions and weight given are advisory and should be checked and confirmed prior to any crucial installation procedures such as ceiling cut-outs taking place. Whilst suggestions regarding luminaire applications are given, it is the responsibility of the installer to verify suitability.

Ansell Lighting reserves the right to make any modification necessary to parts or details without prior notice. The information contained in this publication does not form part of any contract with Ansell Lighting and any item supplied is done in full accordance of our Conditions of Sale (copy available on request).

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