

Solutions 13

TRADE BUYERS GUIDE EFFECTIVE 1st September 2019





2009

First patented product (iCage - Fire Rated Technology)



1994

Release of first catalogue



1992

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



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



2006

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



2009

Ansell major expansion of Lighting Design department

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

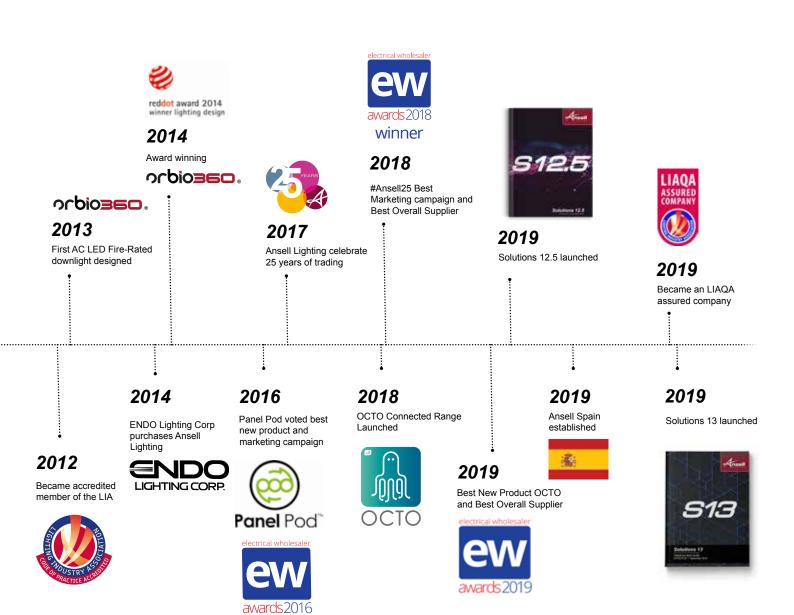
Ansell Electrical Products established in Warrington, Cheshire for the electrical wholesale market throughout England, Scotland and Wales



2009

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





winner







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





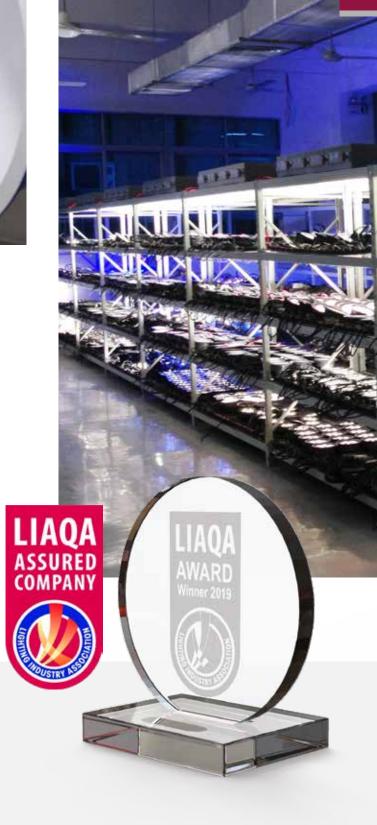
Endo Headquarters Osaka Japan



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



High Frequency Control Gear



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 474



Bathroom Zone 2 BSEN7671:2008 Full details page 474



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



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Designed to Deliver

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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 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"



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.



Steve Mutch, Estates & Buildings Engineering Officer for GMFRS





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 a high quality luminaries, 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.





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**

"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



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: 200m²



New Product Overview

Connected Lighting







Display



Unity GC Pro LED Fixed Downlight



Unity LED Downlight Range / OCTO Options



Unity LED Square Downlight Range /**OCTO Options**



Unity LED Wallwash Range /**OCTO Options**



Recessed adjustable Downlight /OCTO Options



Comfort LED Range /OCTO Options



Galaxy LED /**OCTO Options**



Signal Pro LED Emergency Downlight



Beacon LED Fixed Emergency Downlight



LED/CFL Emergency Lighting Pack



Surface downlight Range /OCTO Options



Rieti Surface LED Downlight



LED Drivers Constant Voltage Non-Dimmable



12V LED Dimmable Driver



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



Boa 24V LED Plug and Play Flexible Strip 14.4W per Metre

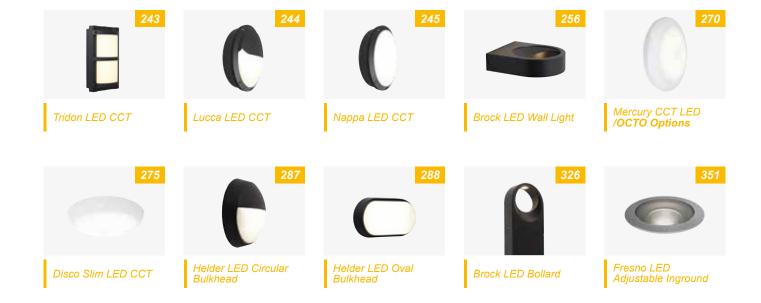


Matrix LED CCT Linklight



Disco Slim LED CCT

Amenity





New Product Overview

Floodlighting







Vaste LED PIR Floodlight 10W



Industrial



Z LED Reflector



Forceline LED



Tornado Pro LED Non-Corrosive



LED Non-Corrosive /OCTO Options



LED Batten /OCTO Options

Commercial



Emergency



Warrington: +44 (0) 1942 433333

+44 (0) 2890 773750 Belfast:





OCTO Compatibility List:

Orbio 360 Downlight
Prism LED FRD / CCT
Unity GC Pro LED Downlight
Gyro Cube LED Surface Downlight
Uni LED
Novara Surface GU10
iCage Mini Die-cast Downlight
Edge GU10 FRD
Lyric GU10
Twistlock GU10 Downlight

IP65 GU10/MR16 Die-cast Bathroom Downlight Single Circuit Unity Wallwash LED Mains Druzy LED Amber LED Jasper LED Jade LED Ruby LED Secco LED Filament Pendants Ceramic Uplights Uni LED Elite LED
Riola
Corvus
Mitre LED
Fascia LED
Adder LED Strip
Cobra LED Strip
Acqua Inox SS
Furia LED
Lyra 80
Tandem

Duo Midi Inox SS Bricklight Calore E27 Latina Half Lantern Latina Wall Lantern Roma Sonate Lampara Inox Lampara Augusta Nizza

Urano SS
Urano Inox
Monza
Monza SS
Aquila
Libra
Flora GU10
GU10 Adjustable Inground
GU10/MR16 Inground Uplight



|Connected |Lighting

ProjectPrivate Residential - Alderley Edge,



Orbio 360 LED

p48

/OCTO Option List:

Unity LED Downlight Range
Unity LED Square Downlight Range
Unity LED Wallwash Range
Recessed Adjustable Downlight
Comfort LED Downlight Range
Galaxy LED Downlight
Mercury CCT LED
LED Non-Corrosive Range
LED Batten Range

Spektrum LED CCT Frame
LED Recessed Panel Range
Lota LED CCT Troffer
Venus LED Indirect
Neptune LED CCT Troffer
Pluto LED



Druzy LED

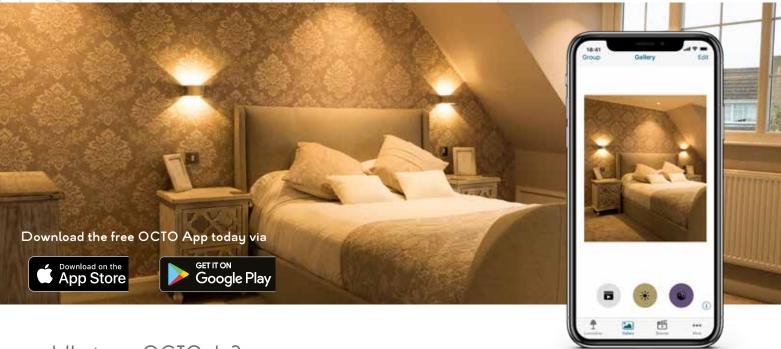
p164



REACH OUT AND CONNECT

Connected lighting solution

OCTO is our easy to use wirelessly controllable lighting solution that gives users complete control of their luminaires via an intuitive app or smart accessories. Utilising Casambi technology OCTO delivers the complete smart lighting package. Perfect for residential, retail or commercial environments our solution has a comprehensive range of features that interact flawlessly with your smart device.



What can OCTO do?

- Turn on/off, dim or *adjustable colour temperature
- Timer functionality with built in sunrise and sunset app setting
- Holiday/ security mode
- Energy saving

- Dusk to dawn functionality via smart PIR sensor
- Scene setting
- Motion detection with a network of sensor and smart switch options
- Easy installation / retrofit ready
- Control from anywhere depending on Wi-Fi connection

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

OCTO Installers...

Join the...





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 Key Features...













- 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

Want more info...

Visit the website for everything you need to know about OCTO today!

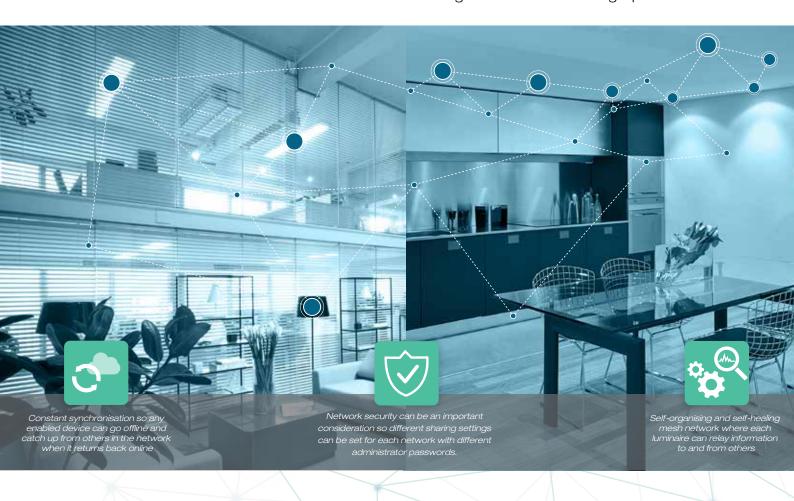
octouk.com

/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.



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)





Absence Detection (Domestic)





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

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 comsumtion.

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 persons 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.





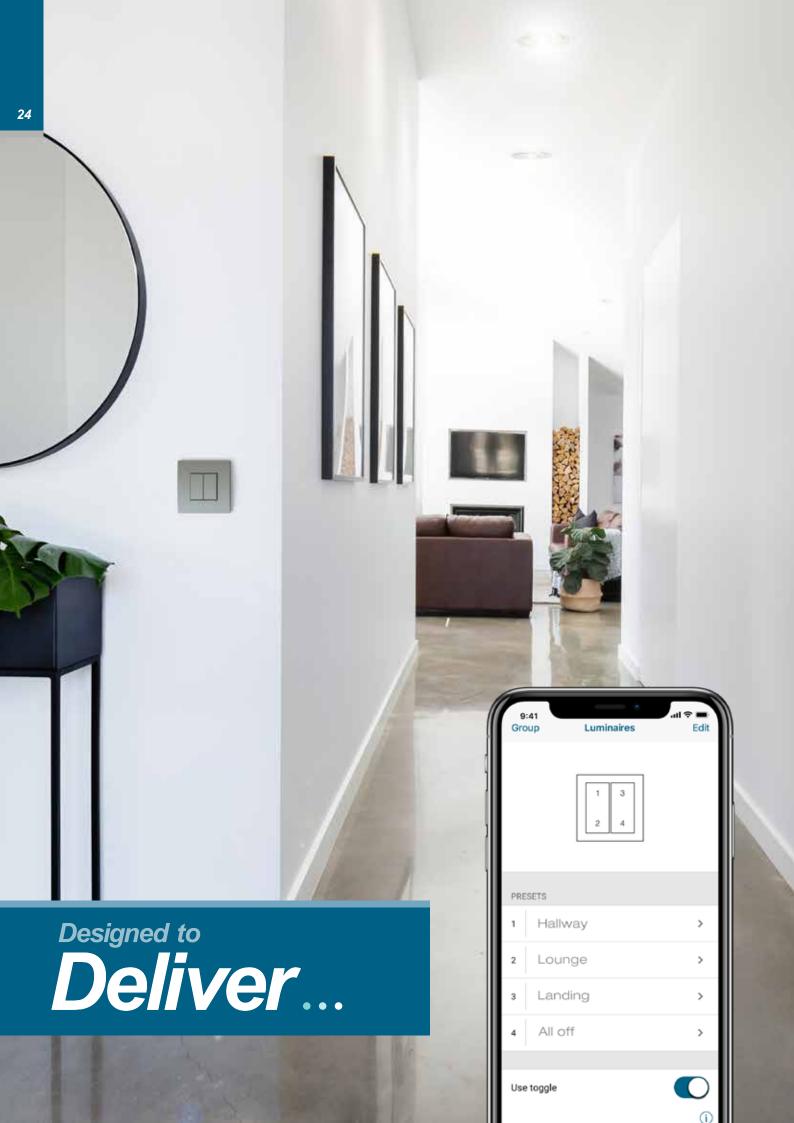
Winding Down: Warm Light and Creativity

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.





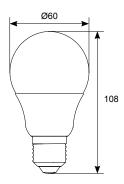




OCTO Smart Lamp

- Bluetooth enabled smart
- Commissioned via OCTO
- Compatible with all other bluetooth OCTO 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 Delivere	ed 560lm
Beam Angle	150°
CRI	Ra 95
CCT	2200-6900K
Input	220/240V
Hertz	50/60Hz





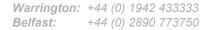








Code	Lamp	Description
AOCTOBTL/8W/E27	E27	8W - 2200K-6900K
Accessories AOCTOBTL/ADAPTOR/B22	E27 to B22 Ada	aptor





OCTO Indoor Controller







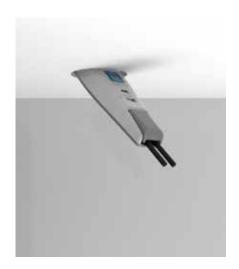




Wiring Configuration



Installation Method



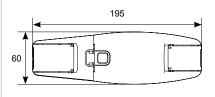
Code	Description
AOCTO/IC/50	150W - Smart Controller
AOCTO/IC/200	200W - Smart Controller

- Push-fit loop-in, loop-out terminals for ease and speed of installation
- Screw-less design
- 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: 30m internal, 50m 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.









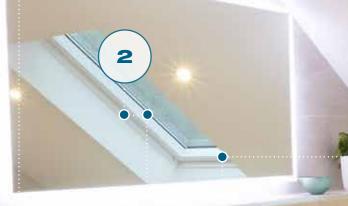
Output	150W
	200W
Input	220V-240V
Hertz	50/60Hz







- * 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





- * 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

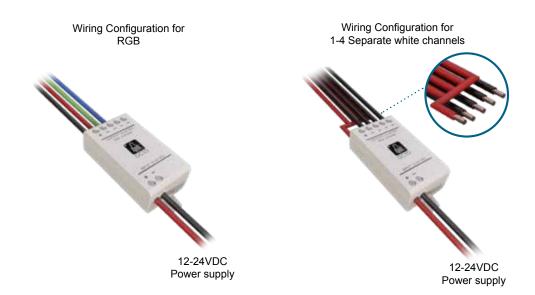








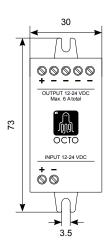




Code	Description
AOCTO/RGBW/BTC	12-24V Single CCT/RGBW Controller

- 12-24V bluetooth smart controller
- Compatible with Krait, Boa, Adder and Cobra LED strip p.192-199
- 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: 30m internal, 50m external**
- 12-24V constant voltage LED driver:
 - AD30W/12V
 - AD75W/12V
 - ADK15W/24V
 - ADK60W/24V
 - ADK120W/24V



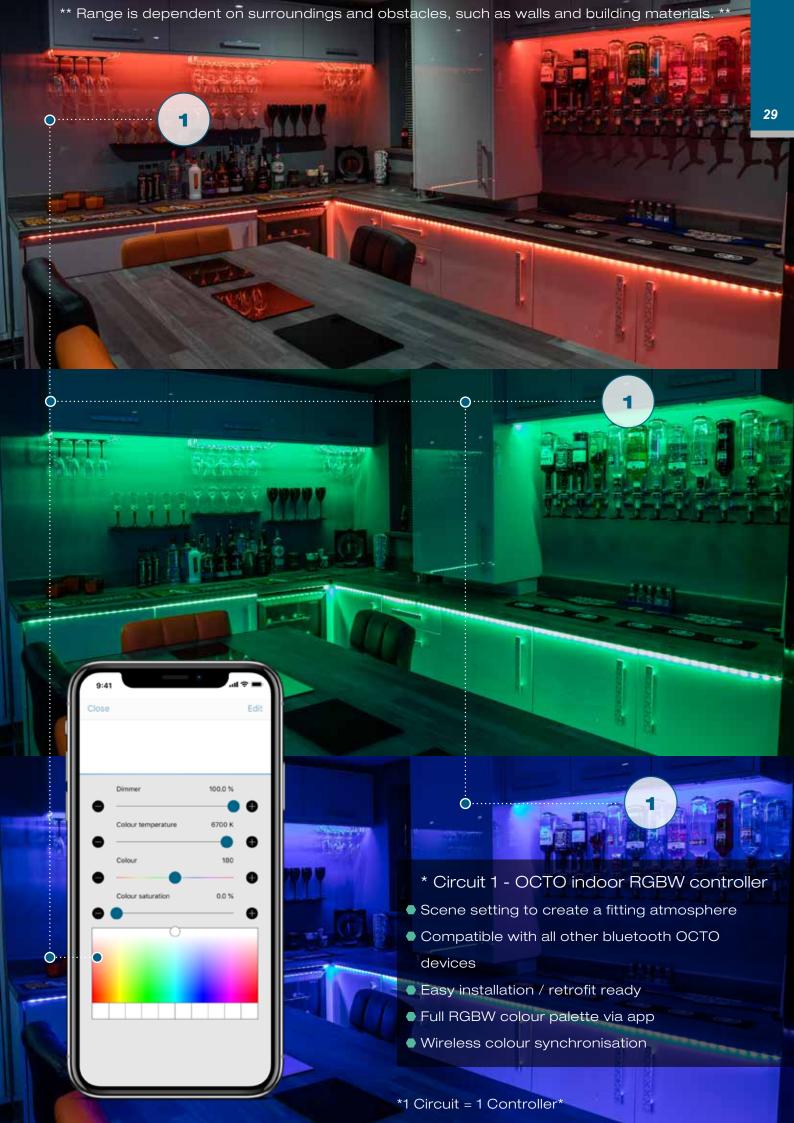


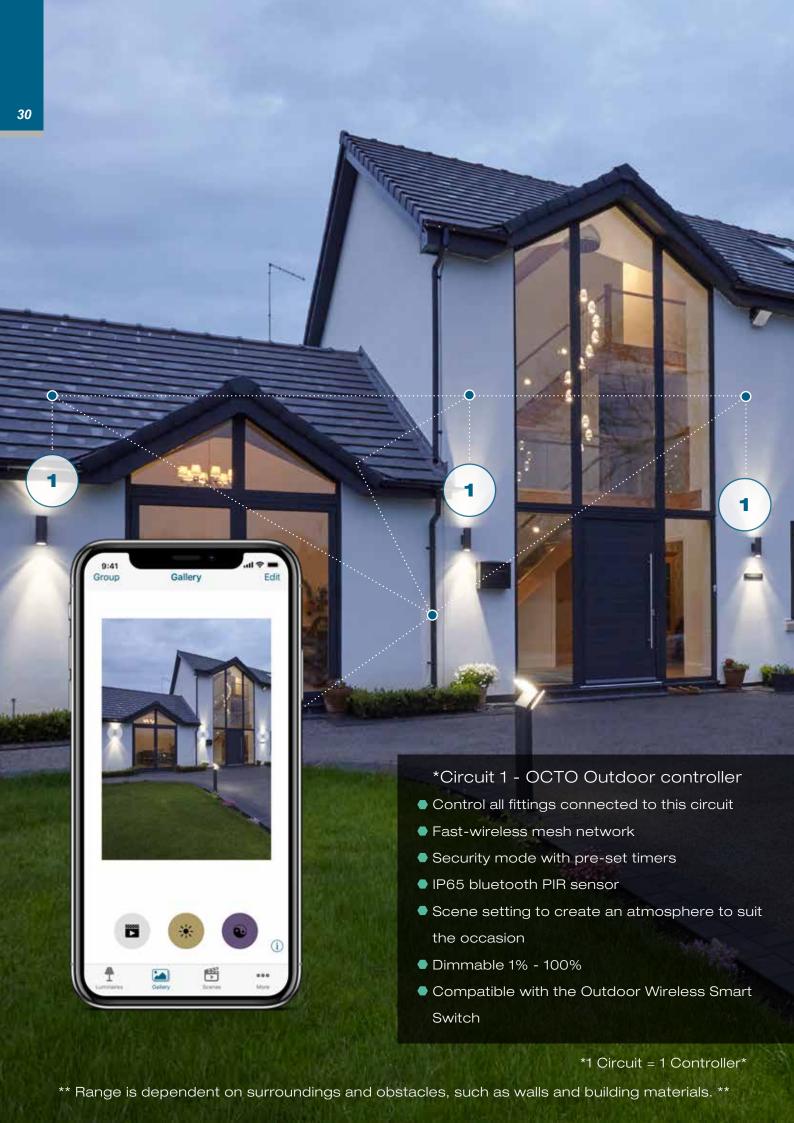
Max. Wattage	72W - 12V
	144W - 24V
Output	6A Max.
Input	12-24VDC









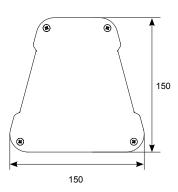


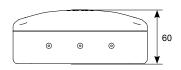
- Control outdoor lighting from smart device
- Heavy duty screw connections suitable for SWA / outdoor cable types
- Detachable connector block to aid connection of stronger cable types
- Waterproof with IP66 rating
- Robust polycarbonate casings for outdoor use. UV stabilised
- Intuitive fast operation 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: 30m internal, 50m 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.

Powered by CASAMBI





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







OCTO Outdoor Controller

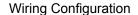


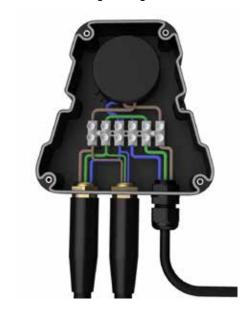












Code	Description
AOCTO/OC/IP65/200	200W

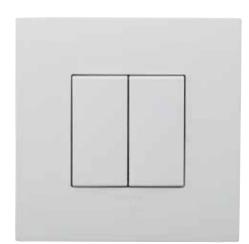
Warrington: +44 (0) 1942 433333 +44 (0) 2890 773750 Belfast:



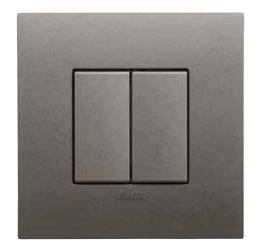








AOCTO/WS/W

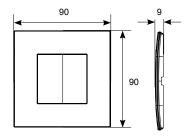


AOCTO/WS/M



- 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 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







AOCTO/WS/B

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



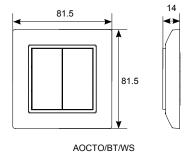






- Double rocker wireless wall switch
- Electro-dynamic energy generator, maintenance free
- Compatible with all other bluetooth OCTO devices as part of the OCTO ecosystem
- Range within one room up to 10 metres line of sight
- Double-sided mounting film enclosed screwing onto a flat surface
- Double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









|--|

Code Description AOCTO/BT/WS Indoor Wireless Switch

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









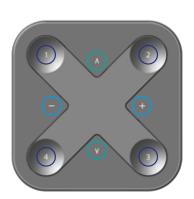


OCTO

AOCTO/XP/WS/B



AOCTO/XP/WS/W





4 Corner Preset Buttons

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



Dimming Buttons

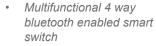
Multi-gesture up and down dimming buttons allow user complete control over light levels

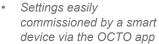


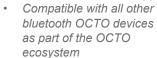
Multipurpose Buttons

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





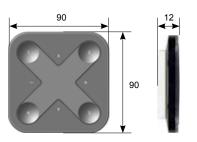


- Integrated magnets ensure easy attachment to mounting bracket (mounting bracket supplied with switch)
- Range within one room up to 50 metres line of sight



Corner illumination indicates which preset button is active







35

OCTO IP65 Wireless Smart Switch





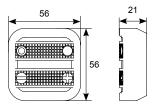


- Wireless soft outdoor remote control
- Compatible with all other bluetooth OCTO devices as part of the OCTO ecosystem
- Magneto-resistive power source
- Spill and shock resistant
- Advantages of a wireless system, no batteries required maintenance free
- Integrated magnet allows it to be stuck on any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











Code

AOCTO/BT/WS/IP65 Outdoor Wireless Switch

Description

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







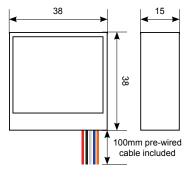






- Bluetooth enabled smart 4 channel push to make switch interface
- Unit retrofits into existing push switch, making it smart enabled
- Pre-wired ensuring a fast and easy installation into pre-existing wall switch
- Compact housing allows installation into pre-existing wall box so no additional work 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	





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.











Indoor Surface PIR Sensor AOCTO/BT/PIR-S



Indoor Recessed PIR Sensor AOCTO/BT/PIR-R

Code Description

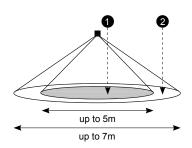
AOCTO/BT/PIR-R Smart Recessed PIR Sensor - White

AOCTO/BT/PIR-S Smart Surface PIR Sensor - White

- Bluetooth enabled PIR sensors
- Compatible with all other bluetooth OCTO devices as part of the OCTO ecosystem
- Infrared PIR dectector and photocell
- Suitable for residential and commercial applications
- Loop-in, loop-out internal connections for ease of installation
- Detection range strength:

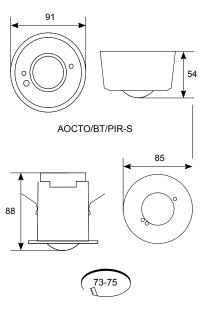
 Strong detection zone
 e. person moving arm
 walking towards PIR

 Secondary detection
 zone i.e. person walking
 perpendicular to PIR



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





AOCTO/BT/PIR-R

Input 230V



OCTO IP65 Smart PIR Sensor







part of the OCTO ecosystem Suitable for residential and commercial applications

Bluetooth enabled PIR

Compatible with all other bluetooth OCTO devices as

sensors

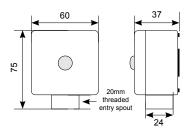
- Infrared PIR dectector and photocell
- Detection range strength: 1) Strong detection zone(5m) i.e. person walking towards PIR 2) Secondary detection zone (10m, 8m) i.e. person walking perpendicular to PIR





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







230V Input Hertz 50Hz



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





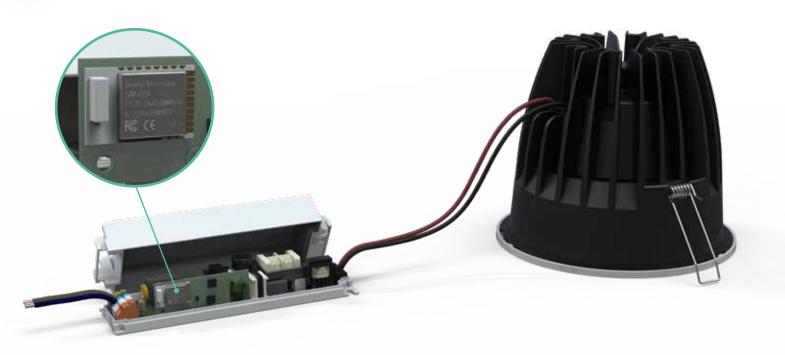
OCTO Ready Products

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 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)





- 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

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







DISPLAY

Project
Sixpad - Westfield, UK



p58



Unity 150 DHP LED p66



Unity 150 LED Wallwash p73



Cobra LED Strip

Display





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















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)















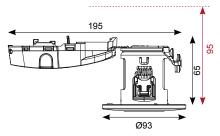




Matt White Bezel fitted as standard

Code	Lamp	Description
AORBLED/CW	LED	8W - Cool White
AORBLED/WW	LED	8W - Warm White

- 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



LLD IIIIOIIIIatioii	
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

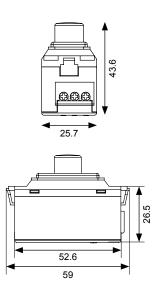






Orbio 360 Accessories

- 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



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







ALEDCP (Matt White, Chrome and Satin Chrome)



AORBLEDBZ/BR AORBLEDBZ/CH AORBLEDBZ/SC AORBLEDBZ/AB AORBLEDBZ/BLC















AORBLEDBZSQ/AB



AORBLEDBZSQ/BLC

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

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

Prism LED Fire Rated Downlight

Supplied c/w Intregral Driver















Easy wiring access



Matt White Bezel fitted as standard





Chrome Trim Bezel Accessory

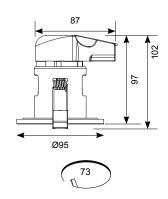
Satin Chrome Trim Bezel Accessory

	Code	Lamp	Description
	APRILED/CW	LED	7.3W - Cool White
	APRILED/WW	LED	7.3W - Warm White
Trim Bezels	APRILEDBZ/CH		Chrome Trim Bezel
	APRILEDBZ/SC		Satin Chrome Trim Bezel
Dimmer	AORBLED/DIMME	R	2 Way Push/Push

- 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 40,000 hours

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

AORBLED/DIMMER Ansell ZGRID500 Zano Varilight V-PRO



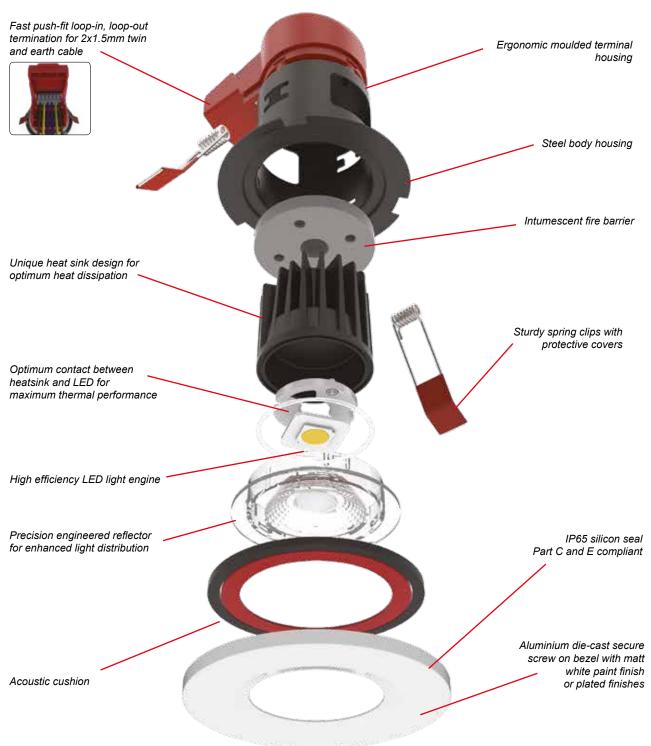
LED Information	1
Total (Watts)	7.3W
Lumens Delivere	d
Cool White	715lm
Warm White	712lm
Lm/W Cool White	98lm
Lm/W Warm White	e 96lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 25°C











Product Certification



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



Part C



Part E



Prism LED Fire Rated Downlight CCT Pack Supplied c/w Intregral Driver and Bezel Accessories

















Easy wiring access



Colour temperature select switch



Matt White Bezel fitted as standard



Chrome Trim Bezel supplied as standard





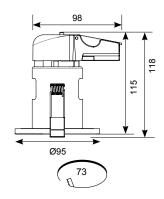
Satin Chrome Trim Bezel supplied as standard

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

- 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 :-

AORBLED/DIMMER Ansell Zano ZGRID500 Varilight V-PRO



I FD Information

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 Town 5°0	10 25°C

Operating Temp -5°C to 25°C



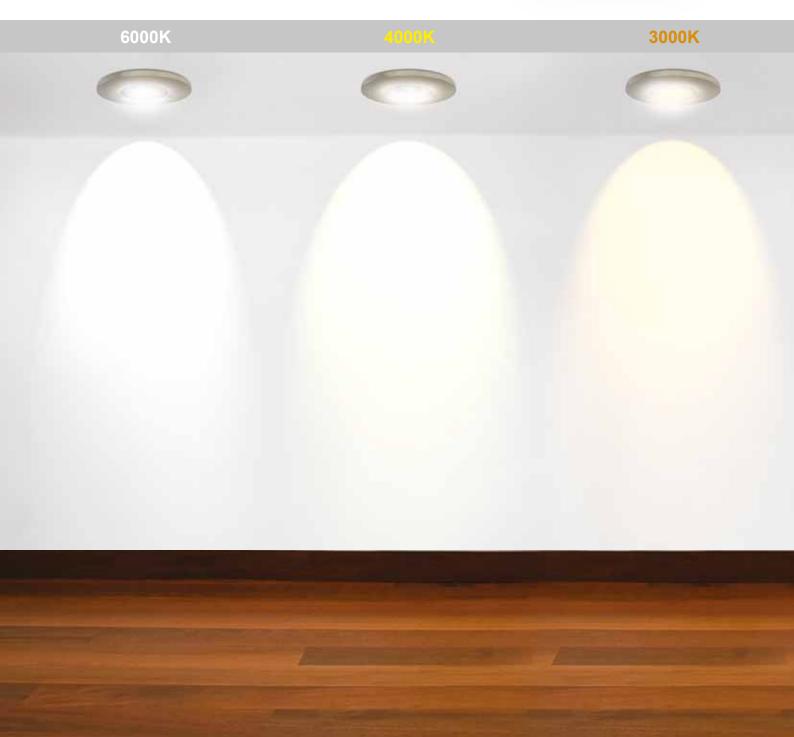




One Product... Nine Choices

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





Unity GC Pro LED Adjustable Downlight Supplied c/w Remote Driver









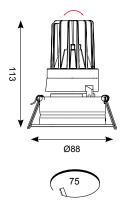




30° tilt angle adjustability

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

- 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



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

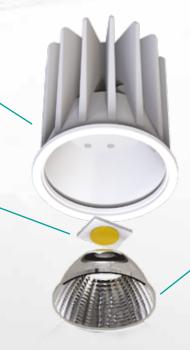






Aluminium heatsink for optimum thermal management to ensure long lifetime cycle

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













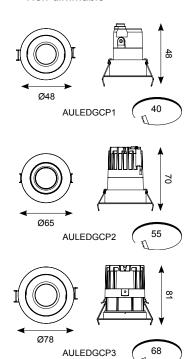




AULEDGCP3/CW

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

- 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



Cool White	Warm White
3W	
8W	
15W	
121lm	113lm
262lm	252lm
629lm	586lm
40lm	38lm
33lm	32lm
42lm	39lm
36°	
Ra 90	
4000K	
3000K	
230V	
50Hz	
-20°C to	25°C
	3W 8W 15W 121Im 262Im 629Im 40Im 33Im 42Im 36° Ra 90 4000K 3000K 230V 50Hz







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









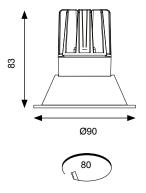




Code	Lamp	Description
AULED80D	LED	15W - Cool White
AULED80D/WW	LED	15W - Warm White

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

- 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



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









Unity 80 LED Gimbal Supplied c/w Remote Driver







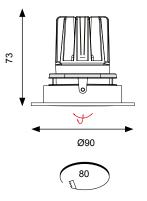




Code	Lamp	Description
AULED80GIM	LED	15W - Cool White
AULED80GIM/WW	LED	15W - Warm White

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

- 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



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











Unity 125 LED Downlight Supplied c/w Remote Driver



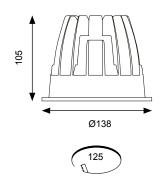








- Compact high performance professional downlight
- IP44 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Performance comparable to 2x26W PLC
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play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



LED Information

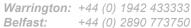
Total (Watts)	21W
Lumens Delivered	d
Cool White	1521lm
Warm White	1386lm
Lm/W Cool White	72lm
Lm/W Warm Whit	te 66lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





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

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



+44 (0) 2890 773750



Unity 150 LED Downlight Supplied c/w Remote Driver









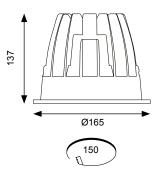




Code	Lamp	Description
AULED150D	LED	37W - Cool White
AULED150D/WW	LED	37W - Warm White

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

- 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



Total (Watts)	37W
Lumens Delivered	1
Cool White	3254lm
Warm White	2870lm
Lm/W Cool White	88lm
Lm/W Warm Whit	e 78lm
Beam Angle	70°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C









Unity 150 DHP LED Downlight Supplied c/w Remote Driver







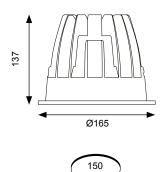






	Code	Lamp	Description
	AULED150DHP	LED	41W - Cool White
Options	/M3		Emergency
	/ОСТО		OCTO Smart Control
	/DD		Digital Dimming (DD1/DD2/DD3/DD4)

- 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





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









Unity 100 Square LED Downlight Supplied c/w Remote Driver











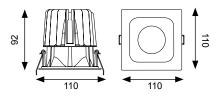




Code	Lamp	Description
AUSQLED100D/CW	LED	14W - Cool White

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

- Compact high performance professional downlight
- Circular hole cut-out for ease of installation and alignment
- IP44 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





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







Unity 125 Square LED Downlight

Supplied c/w Remote Driver



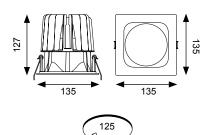








- Compact high performance professional downlight
- Circular hole cut-out for ease of installation and alignment
- IP44 rating as standard
- Die-cast aluminium construction, powder coated and 30° cut-off angle
- Performance comparable to 70W HQI
- Mirror finished anodized reflector
- Anti-glare design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





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

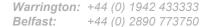






C	Code	Lamp	Description
Α	USQLED125D/CW	LED	29W - Cool White

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





Unity 150 Square LED Downlight Supplied c/w Remote Driver











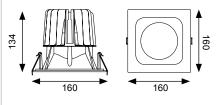




Code	Lamp	Description
AUSQLED150DHP/CW	LED	41W - Cool White

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

- Compact high performance professional downlight
- Circular hole cut-out for ease of installation and alignment
- IP44 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





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







Unity 100 LED Wallwash Supplied c/w Remote Driver

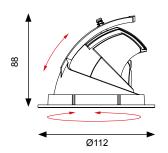








- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Exceeds performance of 100W halogen
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan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





LED Information

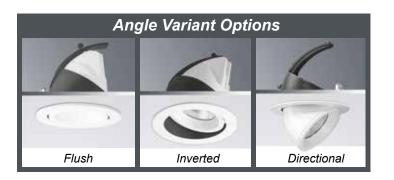
Total (Watts)	15W
Lumens Delivered	1
Cool White	1041lm
Warm White	896lm
Lm/W Cool White	74lm
Lm/W Warm Whit	e 60lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





reddot award winner lighting design





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

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



Unity 150 LED Wallwash Supplied c/w Remote Driver

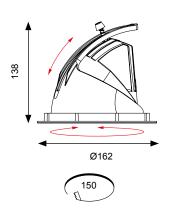








- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Comparable performance to 70W HQI
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan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



LED Information

Total (Watts)	28W
Lumens Delivered	1
Cool White	2699lm
Warm White	2497lm
Lm/W Cool White	93lm
Lm/W Warm Whit	te 86lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C









reddot award winner lighting design





Code	Lamp	Description
AULED15	0WW LED	28W - Cool White
AULED15	0WW/WW LED	28W - Warm White

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





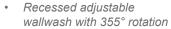
Unity 175 LED Wallwash Supplied c/w Remote Driver



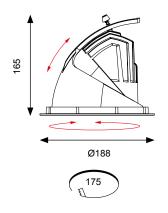








- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Comparable performance to 100W HQI
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours



LED Information

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





reddot award winner lighting design





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

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



Unity Rectangular LED Wallwash Supplied c/w Remote Driver







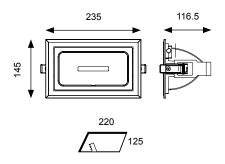




Code	Lamp	Description
AULEDRECWW	LED	35W - Cool White

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

- 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



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

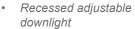




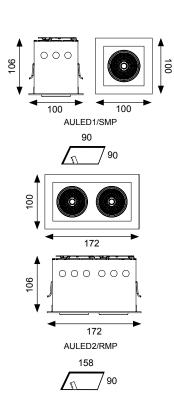


Unity S and R Retractable LED Downlights

Supplied c/w Remote Driver



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



LED Information

Total (Watts)	
Square	15W
Rectangular	2 x 15W
Lumens Delivere	d
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

















AULED1/SMP







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



AULED2/RMP



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

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

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Unity S and R LED Downlights Supplied c/w Remote Driver

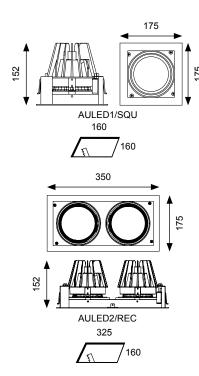








- Recessed adjustable downlight
- Fully adjustable tilt angle 30° on two axis
- Comparable performance to 50W HQI
- Black trim provides excellent glare control
- Steel housing with die-cast aluminium body for good thermal management
- Remote driver with plug and play connection
- LED lifespan L80 50,000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



LED Information

Total (Watts)	
Square	37W
Rectangular	2 x 37W
Lumens Delivere	d
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





AULED1/SQU





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

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



Comfort LED Downlight Supplied c/w Remote Driver

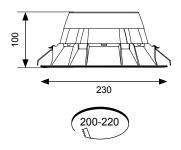








- Economic high performance IP44 downlight
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- Downlight design allows installation into existing hole cut-outs from 200mm to 220mm
- Polycarbonate housing with unique thermal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





LED Information

Total (Watts)	13W	19W
Lumens Delivered		
Cool White	1687lm	2350lm
Warm White	1502lm	2166lm
Lm/W Cool White	123lm	124lm
Lm/W Warm White	114lm	113lm
Beam Angle	55°	
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp -20	°Cto 25°C	



Code	Lamp	Description
ACOLED1/CW	LED	13W - Cool White
ACOLED2/CW	LED	19W - Cool White
ACOLED1/WW	LED	13W - Warm White
ACOLED2/WW	LED	19W - Warm White

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



Comfort LED HP Downlight Supplied c/w Remote Driver







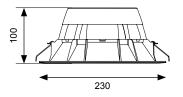




Code	Lamp	Description
ACOLED3/CW	LED	34W - Cool White
ACOLED3/WW	LED	34W - Warm White

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

- Economic high performance IP44 downlight
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- 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





Total (Watts)	34W
Lumens Delivered	1
Cool White	3830lm
Warm White	3621lm
Lm/W Cool White	112lm
Lm/W Warm Whit	e 106lm
Beam Angle	55°
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C







Comfort LED Wallwash

Supplied c/w Remote Driver

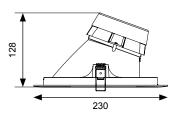








- Economic high performance IP20 wallwash
- Deep cut-off angle for glare control and comfort
- Osram LED technology and enhanced diffuser design for outstanding uniformity
- Design allows installation into existing hole-cut outs of 200mm
- Polycarbonate housing with unique thermal management for durability and optimum lifespan
- LED lifespan L70 50,000 hours





LED Information

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











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

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



Galaxy CCT LED Downlight Supplied c/w Remote Driver

















AGALED/1/CCT with drop glass attachment installed

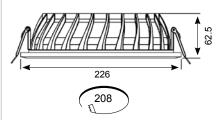
Code	Lamp	Description
AGALED/1/CCT	LED	15W - Cool White / Warm White
AGALED/2/CCT	LED	20W - Cool White / Warm White

Options	/M3	Emergency
	/ОСТО	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

- Compact IP65 LED Downlight which out performs 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

Total (Watts)	15W	20W
Lumens Delivered		
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/4	000K
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to	40°C





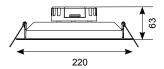
Vega LED Downlight Supplied c/w Integral Driver







- 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 36,000 hours
- Non-dimmable







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 4	5°C





AVEGLED/1/WW



Low Profile Design



AVEGLED/1/CW

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

Option	/M3	Emergency
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Freska LED Downlight Supplied c/w Remote Driver



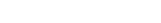












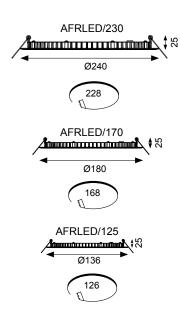


Ultra-Slim 25mm Profile Depth

Self-Test Emergency Pack

	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	
Accessory	ASBP/12	7.2V 3000mAh Ni-cd Replacement Battery	

- 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



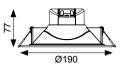
LED Information		
Total (Watts)	10W	
	13W	
	19W	
Lumens Delivered		
10W	618lm	534lm
13W	916lm	795lm
19W	1208lm	1152lm
Lm/W 10W	62lm	59lm
Lm/W 13W	70lm	61lm
Lm/W 19W	64lm	61lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-10°C to 2	25°C







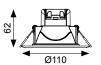
- Economic polycarbonate circular LED downlight
- Low profile design with integral driver with loop-in, loop-out terminals for ease and speed of installation
- Edge lit providing excellent uniform illumination
- 5W exceeds performance of 20W halogen
- 7W comparable performance to 35W halogen
- 12W comparable performance to 18W PLC
- 19W comparable performance to 26W PLC
- LED lifespan L70 25,000 hours
- Non-dimmable

















LED Information

	Cool White	Warm White
Total (Watts)	5W	12W
	7W	20W
Lumens Delive	ered	
5W	403lm	371lm
7W	587lm	576lm
12W	875lm	857lm
19W	1657lm	1620lm
Lm/W 5W	80lm	74lm
Lm/W 7W	84lm	82Im
Lm/W 12W	73lm	71lm
Lm/W 19W	87lm	85lm
Beam Angle	100°	
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	220V - 2	240V
Hertz	50/60Hz	
Operating Temp	-10°C to	45°C



Bexar LED Downlight Supplied c/w Integral Driver











Code	Lamp	Description
ABXLED100/CW	LED	5W - Cool White
ABXLED110/CW	LED	7W - Cool White
ABXLED140/CW	LED	12W - Cool White
ABXLED190/CW	LED	20W - Cool White
ABXLED100/WW	LED	5W - Warm White
ABXLED110/WW	LED	7W - Warm White
ABXLED140/WW	LED	12W - Warm White
ABXLED190/WW	LED	20W - Warm White
Accessory ASLED/3NM	LED	1.5W Non-Maintained

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Lodi LED Slim Downlight Supplied c/w Integral Driver









ALODLED/75/CW



ALODLED/95/WW

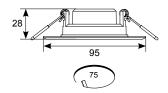


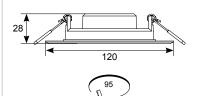
ALODLED/110/CW

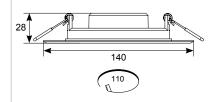
Ultra-Slim 28mm Profile Depth

	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







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 - 24	10V
Hertz	50Hz	
Operating Temp	-15°C to 2	25°C







Lodi LED Slim Downlight Supplied c/w Integral Driver







of 1x18W PL-C 22W exceeds performance of 1x26W PL-C 25W comparable to

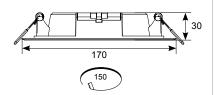
Economic polycarbonate circular LED downlight

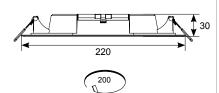
Low profile design with

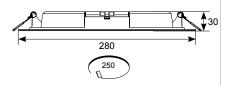
Ideal for use in areas with shallow ceiling voids 16W exceeds performance

integral driver

- 1x32W PL-T
- Supplied pre-wired with 300mm of cable
- LED lifespan L70 25,000 hours







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	72Im	66lm
Lm/W 22W	77lm	73lm
Lm/W 25W	85lm	80lm
Beam Angle	100°	
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	220V - 24	10V
Hertz	50Hz	
Operating Temp	-15°C to 2	25°C











Ultra-Slim 30mm Profile Depth

ALODLED/250/CW

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

Argo LED IP65 Downlight Supplied c/w Integral Driver





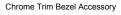




AARGD/CW









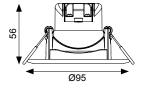
Satin Chrome Trim Bezel Accessory



Black Trim Bezel Accessory

Code	Lamp	Description
AARGD/CW	LED	5W - Cool White
AARGD/WW	LED	5W - Warm White
Accessories AARGD/IP65BEZ/CH		Chrome Trim Bezel
AARGD/IP65BEZ/	sc	Satin Chrome Trim Bezel
AARGD/IP65BEZ/BL		Black Trim Bezel

- Compact polycarbonate LED downlight
- IP65 rating as standard allows for a range of installation applications
- Low profile design with integral driver with loop-in, loop-out terminals for ease and speed of installation
- Option of chrome, satin chrome and black bezel accessories
- Exceeds performance of 35W halogen
- LED lifespan L70 25,000 hours
- Non-dimmable





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







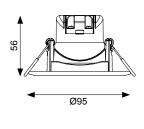
Argo LED Gimbal Supplied c/w Integral Driver







- 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







Total (Watts)	5W
Lumens Delivered	d
Cool White	460lm
Warm White	400lm
Lm/W Cool White	92lm
Lm/W Warm Whi	te 80lm
Beam Angle	36°
CRI	Ra 80
CCT	4000K
	3000K
Input	220V - 240V
Hertz	50/60Hz
Operating Temp -1:	5°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

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Capizzi LED Supplied Less Driver









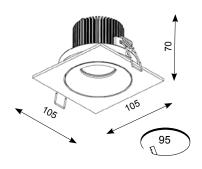
ACDLEDX1

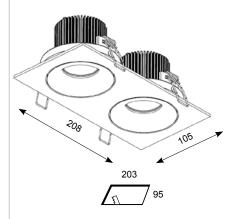


ACDLEDX2

C	Code	Lamp	Description
A	ACDLEDX1	LED	1 x 8W - Warm White
A	ACDLEDX2	LED	2 x 8W - Warm White
Accessories A	AD9W/350		9W 350mA LED Driver
A	ADK20W/350		20W 350mA LED Driver
A	AMCD25W		25W 350mA Dimmable LED Driver
A	MCD50W		50W 350mA Dimmable LED Driver

- Single and twin adjustable LED downlight with integral reflector and front glass
- Suitable for domestic and commercial applications
- Die-cast aluminium construction with matt white painted finish
- LED lifespan L70 60,000 hours





Total (Watts)	1x8W
	2x8W
Lumens Delivered	361lm
	723lm
Lm/W	45lm
Beam Angle	42°
CRI	Ra 80
CCT	3000K
Input	350mA
Hertz	50/60Hz
Operating Temp -10	°C to 40°C







Iris LEDSupplied Less Driver

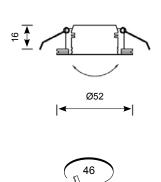






- Micro recessed adjustable downlight with 40° tilt angle.
- Multiple uses, including general illumination, retail, cabinets and furniture applications
- LED lifespan
 L70 50,000 hours

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





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





AIGLED/WW/W

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

Accessories AD3W/700	3W 700mA LED Driver
ADK12W/700	12W 700mA LED Driver
ADK20W/700	20W 700mA LED Driver
AMCD25W	25W 700mA Dimmable LED Driver
AMCD50W	50W 700mA Dimmable LED Driver



Signal Pro LED Lithium Emergency Downlight Supplied c/w Remote Driver and Battery Pack









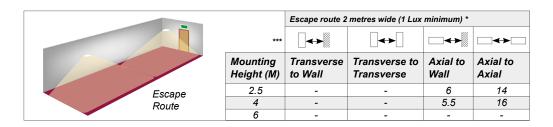


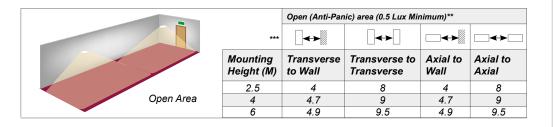


ASPRLED/LI/3M/DA Open Area Lens



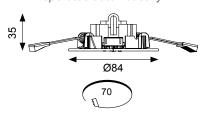
ASPRLED/LI/3M/DA Escape Route Lens





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

- Compact LED Non-Maintained fixed downliaht
- LiFePO4 Lithium battery provides enhanced product lifetime
- 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 60m², 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

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

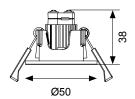






Signal LED Emergency Downlight Supplied c/w Remote Driver and Battery Pack

- Economic and compact LED Non-Maintained fixed downlight
- White and black powder coat paint finish
- LED combines power and 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 60m2, 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

Distance to wall from end of fitting Axial - Axial End to end spacing

LED Information

Axial - Wall

Total (Watts)	1.5W
Lumens Delivered E	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









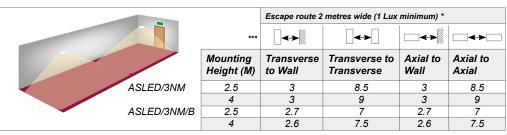


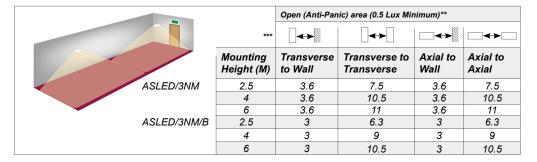












Code	Lamp	Description
ASLED/3NM	LED	1.5W Non-Maintained
ASLED/3NM/B	LED	1.5W Non-Maintained

ASBP/8 3.6V 2Ah Ni-Cd Replacement Battery Accessory

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



Beacon LED Emergency Adjustable Downlight Supplied c/w Remote Driver and Battery Pack

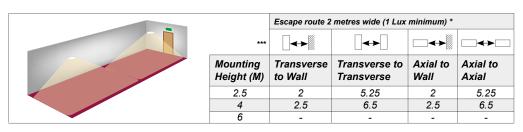


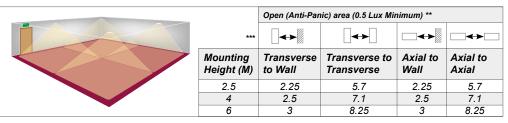






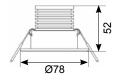






	Code	Lamp	Description
	ABLED/3NM	LED	5W Non-Maintained
Accessory	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery	

- 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
- 0.5 lux minimum must be used for areas larger than 60m², 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

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







Beacon LED Fixed Emergency Downlight Supplied c/w Remote Driver and Battery Pack

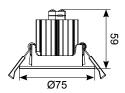








- LED Non-Maintained fixed polycarbonate downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 123° beam angle





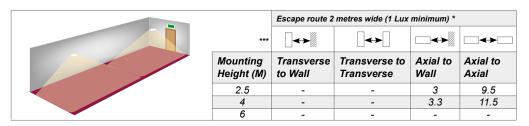
- 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route
- 0.5 lux minimum must be used for areas larger than 60m², the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- *** Explanation of the symbols:-Transverse - Wall Distance to wall from side of fitting Transverse - Transverse Side to side spacing

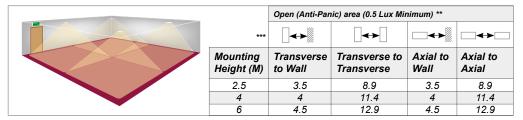
Axial - Wall Distance to wall from end of fitting Axial - Axial

End to end spacing

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





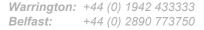


	Code	Lamp	Description
	ABFLED/3NM	LED	5W Non-Maintained
Accessory	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery	





















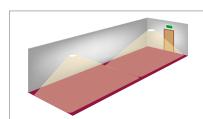
Emergency downlight with integral inverter and battery pack



Escape Route

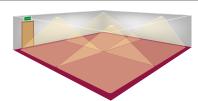


Open Area



	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	**	**	**	**		



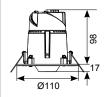
	***				□↔ □
ļ	Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
	2.5	2.5	4.88	2.5	4.88
	4	2.8	6.69	2.8	6.69
	6	2	8.5	2	8.5

Open (Anti-Panic) area (0.5 Lux Minimum) **

	Code	Lamp	Description
Self-Test	ARALED/ER/3NM/ST	LED	3W Non-Maintained - Escape Route
	ARALED/OA/3NM/ST	LED	3W Non-Maintained - Open Area

Accessory ASBP/14 3.2V 2600mA Li-FePO4 Lithium Replacement Battery

- 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



- 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 60m², 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

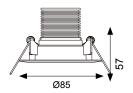
Total (Watts)	3W
Lumens Delivered	1
Emergency Mode	
Open Area	114lm
Escape Route	90lm
Beam Angle	
Open Area	43.3°
Escape Route	132°
CCT	6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	0C° to 40C°





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





- 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 60m², 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)	5V	V
Lumens Delivered		
Emergency Mode		/B
Open Area	245lm	191lm
Escape Route	206lm	229lm
Beam Angle		
Open Area	110°	108°
Escape Route	140°	140°
CCT	6500K	
Input	230V	
Hertz	50/60Hz	<u> </u>
Operating Temp	0°C to 4	5°C















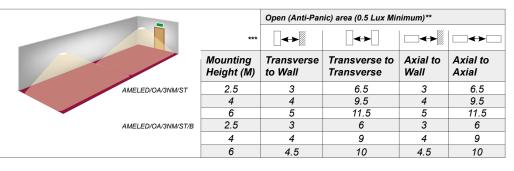




AMELED/OA/3NM/ST

AMELED/ER/3NM/ST/B





	Code	Lamp	Description
Self-Test	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

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









102

IP65 Falcon LED Surface Emergency Downlight

Supplied c/w Integral Driver and Battery Pack













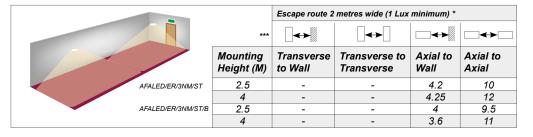
AFALED/3NM/ST/IP65/B

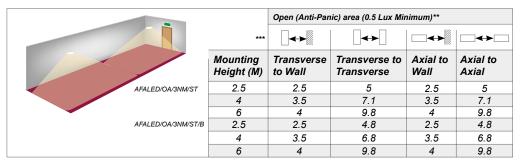






Escape Route Lens

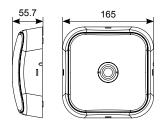




	Code	Lamp	Description
Self-Test	AFALED/3NM/ST/IP65	LED	3W Non-Maintained
	AFALED/3NM/ST/IP65/B	LED	3W Non-Maintained - Black

3.6V 3Ah Ni-Cd Replacement Battery

- Compact surface ultralow 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 19.6 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 60m², 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 fittina 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)	31/	/
Lumens Delivered		
Emergency Mode		/B
Open Area	152lm	142lm
Escape Route	138lm	116lm
Beam Angle		
Open Area	96°	96°
Escape Route	140°	135°
CCT	6500K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	0°C to 40	O°C







Accessory

ASBP/10

LED Emergency Lighting 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 Maintained / Non-Maintained - LED









Gyro Cube Surface LED Downlight Supplied c/w Integral Driver







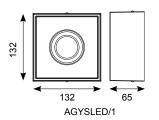


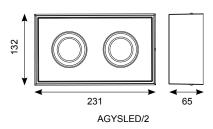




Code	Lamp	Description
AGYSLED/1	LED	8W - Warm White
AGYSLED/2	LED	2 x 8W - Warm White

- Multi-functional modern adjustable surface mounting LED fixture
- Comparable performance to 50W halogen
- 360° rotation and adjustable to 30°
- Die-cast aluminium construction with a matt white paint finish
- LED lifespan L70 50,000 hours
- Triac dimmable as standard





Total (Watts)	8W
	2 x 8W
Lumens Delivered	d
8W	540lm
2 x 8W	1060lm
Lm/W 8W	77lm
Lm/W 2 x 8W	82lm
Beam Angle	42°
CRI	Ra 90
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp -	-20°C to 50°C







Comfort CCT LED Surface Downlight Supplied c/w Integral Driver





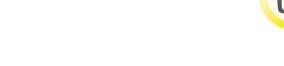














Code	Lamp	Description
ASCOLED/1/CCT	LED	21W - Cool White/Warm White
ASCOLED/2/CCT	LED	26W - Cool White/Warm White

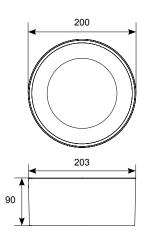
Options	/ОСТО	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)

- 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

Powered by

TRIDONIC

- 21W exceeds performance 1x32W PL
- 26W exceeds performance 2x26W PL
- 2 CCT options selectable
- LED lifespan L70 50,000 hours



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	
	40	000K
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to 50°C	











Freska Surface LED Downlight Supplied c/w Integral Driver



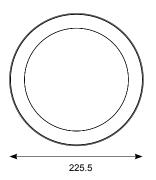






Code Description Lamp ASFRLED230/CW LED 18W - Cool White ASFRLED230/WW LED 18W - Warm White

- 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





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







Rieti Surface LED Downlight Supplied c/w Integral Driver







- 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







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°0	C to 25°C









Code	Lamp	Description
ARIELED/CW	LED	8W - Cool White
ARIELED/WW	LED	8W - Warm White

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













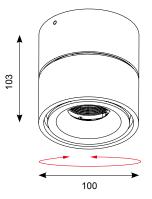




Fully adjustable to 90°

Code	Lamp	Description
AUNIVLED	LED	9W - Warm White

- 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







Novara Surface GU10

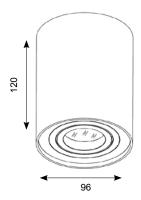
Supplied Less Lamp







- 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







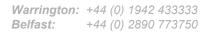


ANSGU10/SC



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.





Part C









90 Minutes Chilt/A/12231

Part B Test Nos. Part C Test Nos. 30 Minutes Chilt/A/12229 P100567 60 Minutes Chilt/A/12230



Part E





Part E Test No. BRE/254782

BEZEL OPTIONS

Fully tested in 30, 60 and 90 minute ceilings















Satin Matt White Chrome Brass Chrome

Antique Brass

Black Chrome

iCage Mini 50W GU10 Die-Cast Downlight Supplied Less Lamp















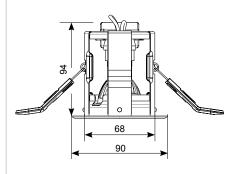


Code	Lamp	Description
AMICD/W	GU10	50W - White
AMICD/MW	GU10	50W - Matt White
AMICD/BR	GU10	50W - Brass
AMICD/CH	GU10	50W - Chrome
AMICD/SC	GU10	50W - Satin Chrome
AMICD/AB	GU10	50W - Antique Brass
AMICD/BLC	GU10	50W - Black Chrome



- 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















iCage Mini 50W GU10 Die-Cast Gimbal

Supplied Less Lamp







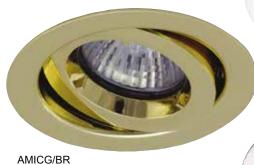
























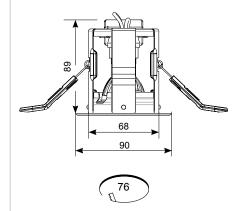






- Compact Fire Rated downlight for shallow ceiling voids
- Suitable for standard GU10 LED or halogen lamps retrofit
- Protective polycarbonate spring clip covers for ceiling protection and ease of installation
- Dedicated forward heat lamps NOT required
- Extra large terminals for fast loop-in, loop-out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











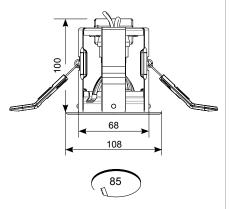
iCage Mini IP65 50W GU10 Die-Cast Downlight

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/CH





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

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GUIO/FRD

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

Spring clips for sturdy

thicknesses providing tight and lasting positioning to ceiling

fixing in variable ceiling

Twistlock operation for easy lamp installation and replacement

spring clips for ceiling protection and ease of installation

Protective sheathing

Intumescent disc

Acoustic cushion

Moisture seal

Available in matt white and plated finishes

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











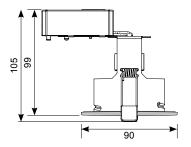






- Suitable for standard GU10 halogen or LED lamps
- Protective sheathing spring clips for ease of installation and ceiling protection
- Push fit terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement
- Ultra-slim bezel profile
- Compact Fire Rated downlight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





























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

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























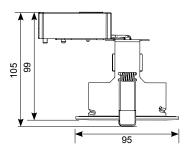
Code	Lamp	Description
AEFRG/MW	GU10	50W - Matt White
AEFRG/CH	GU10	50W - Chrome
AEFRG/SC	GU10	50W - Satin Chrome

Accessories AEFRISG Gimbal Insulation Support



- 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















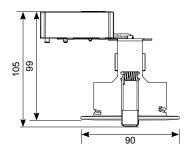
Edge GU10 IP65 Fire Rated Downlight

Supplied Less Lamp



- 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

















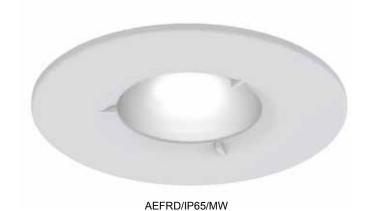
















Code	Lamp	Description
AEFRD/IP65/MW	GU10	50W - Matt White
AEFRD/IP65/CH	GU10	50W - Chrome
AEFRD/IP65/SC	GU10	50W - Satin Chrome

Accessories AEFRISD Downlight Insulation Support

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











ALGU10/1



ALGU10/1/MW



ALGU10/2/MW



ALGU10/2



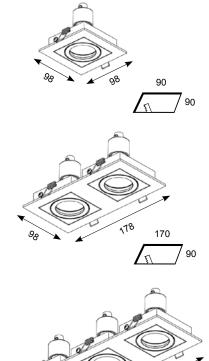
ALGU10/3



ALGU10/3/MW

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

- 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



258

250

⁷ 90





Twistlock GU10 50W Die-Cast Downlight

Supplied Less Lamp









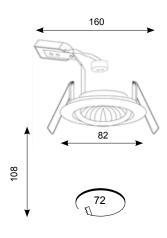
Code	Lamp	Description
ATLD/W	GU10	50W - White
ATLD/MW	GU10	50W - Matt White
ATLD/BR	GU10	50W - Brass
ATLD/CH	GU10	50W - Chrome
ATLD/SC	GU10	50W - Satin Chrome
ATLD/AB	GU10	50W - Antique Brass
ATLD/BLC	GU10	50W - Black Chrome

Accessories ATL/BA Low Glare Baffle Adaptor

- 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











Twistlock GU10 50W Die-Cast Gimbal

Supplied Less Lamp



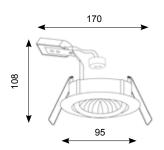




- Manufactured from high grade die-cast aluminium
- Permanent earth on stirrup bracket for GU10 mains earthing
- Generous size of terminal housing for ease of wiring
- 30 degree tilt angle



ATL/BA fitted into Twistlock Low glare baffle adaptor











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

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











ATLSQG/W



ATLSQG/CH

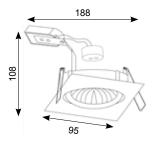


ATLSQG/SC

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

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







ATL/BA fitted into Twistlock Low glare baffle adaptor









Twistlock GU10 35W IP44 Die-Cast Downlight Supplied Less Lamp





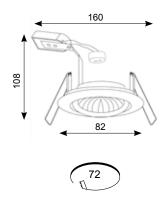




IP44 downlight suitable for bathrooms



ATLVD/IP44/W





ATLVD/IP44/CH



ATL/BA fitted into Twistlock Low glare baffle adaptor





ATLVD/IP44/SC

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

Accessory ATL/BA Low Glare Baffle Adaptor























ATLD/IP65/W





IP65 ATLD/IP65/MW



ATLD/IP65/CH





ATLD/IP65/SC

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

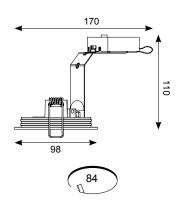
ATL/BA

Low Glare Baffle Adaptor

- IP65 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











IP65 GU10/MR16 Die-Cast Bathroom Downlight Supplied Less Lamp











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



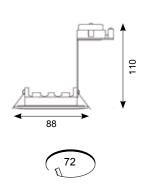
ABD/W







ABD/SC







Cod	е	Lamp	Description
ABI	D/W	GU10/MR16	50W - White
ABI	D/CH	GU10/MR16	50W - Chrome
ABI	D/SC	GU10/MR16	50W - Satin Chrome

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Twistlock GU10 / 35W IP44 Outdoor Die-Cast Gimbal

Supplied Less Lamp





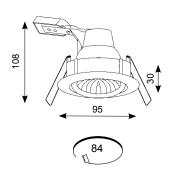






- IP44 rated for exterior applications
- DuPont paint finish with 20 year guarantee

Suitable for GU10 LED only









ATLVOG/IP44/W



Suitable for external soffit applications

ATLVOG/IP44/SG



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

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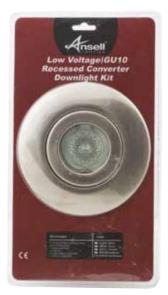




ACP/W



ACP/CH



ACP/SC

 Code
 Lamp
 Description

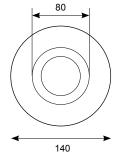
 ACP/W
 GU10 / MR16
 50W - White

 ACP/CH
 GU10 / MR16
 50W - Chrome

 ACP/SC
 GU10 / MR16
 50W - Satin Chrome

- 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









- 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

	Code	Cover Size (mm)	
Hoods	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

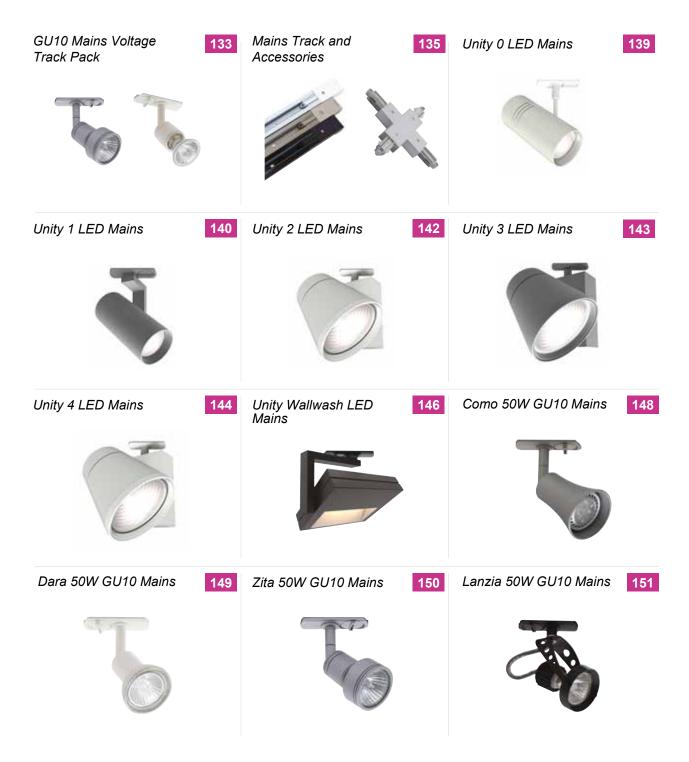
Code	Description
ASGU10L	GU10 Stirrup Lampholder with earth

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Single Circuit

Track and Surface System with Push-fit and Lock Connection



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















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

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





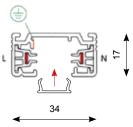
Mains Voltage 16A Single Circuit Track Supplied c/w Live and Dead End



- 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
- Maximum mechanical loading of 50N
- Track inserts can be cut to desirable lengths



Generous Terminal Capacity



Track Cross Section



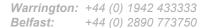
Single Circuit Track Insert



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





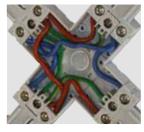




Mains Voltage 16A Single Circuit Track Accessories



- 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
			<u> </u>
		AMTLE/PL/W	White
	Live End - Earth Left	AMTLE/PL/B	Black
	Eartii Leit	AMTLE/PL/SS	Satin Silver
and the same of th			
at call			
		AMTLE/PR/W	White
•	Live End - Earth Right	AMTLE/PR/B	Black
	Luitii Rigiit	AMTLE/PR/SS	Satin Silver
181	Butt	AMTBC/W	White
The same of the sa	Connector	AMTBC/B	Black
144		AMTBC/SS	Satin Silver
	Straight	AMTSC/W	White
	Connector	AMTSC/B	Black
		AMTSC/SS	Satin Silver
A			
		AMTXC/W	White
	X-Connector	AMTXC/B	Black
		AMTXC/SS	Satin Silver
101			
		AMTDE/W	White
	Dead End	AMTDE/B	Black
1 - 1	2000 2110	AMTDE/SS	Satin Silver

=

Surface Monopoint with

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



Unity 2 LED Mains fitting		Code	Description
	L Connector - Earth Inside	AMTLC/PI/W	White
		AMTLC/PI/B	Black
		AMTLC/PI/SS	Satin Silver
W.		AMTLC/PO/W	White
•	L Connector - Earth Outside	AMTLC/PO/B	Black
		AMTLC/PO/SS	Satin Silver
ík			
111		AMTTC/PI/W	White
	T-Connector - Earth Inside	AMTTC/PI/B	Black
0 0	Latti iliside	AMTTC/PI/SS	Satin Silver
THE PERSON NAMED IN			
	T-Connector -	AMTTC/PO/W	White
	Earth Outside	AMTTC/PO/B	Black
W.		AMTTC/PO/SS	Satin Silver
		AMTA/W	White
60	6A Track Adaptor	AMTA/B	Black
	c/w cable clamp	AMTA/SS	Satin Silver
37777777777777777777777777777777777777	Flexible	AMTFC/W	White
	Connector	AMTFC/B	Black
		AMTFC/SS	Satin Silver
	Suspension Kit	AMTSK	c/w 3metre Steel Chord
	M		
	Surface Monopoint	AMON/GU10/W	White
		AMON/GU10/B	Black

AMON/GU10/SS

(Diameter 120mm x Depth 25mm)

Satin Silver

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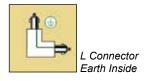
Single Circuit Track Planning System

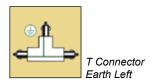
- Choice of left or right earth connection for complex installations
- Adjacent diagram provides an illustration of correct accessory selection





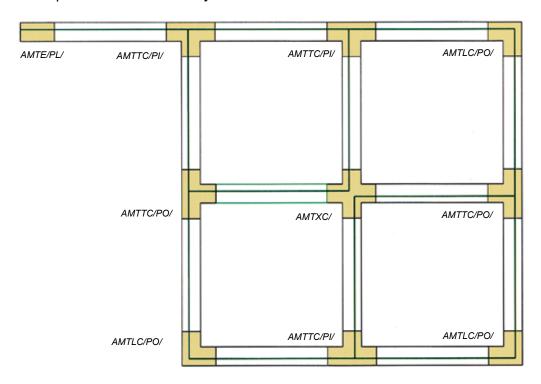






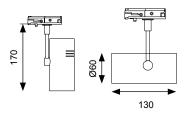


Example of correct accessory selection



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	63Im
Beam Angle	50°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp -20°	C to 25°C

















 -	

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

Single Circuit Unity 1 LED Mains Supplied c/w Integral Driver











AULEDS1/SS

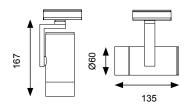


AULEDS1/B

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

- 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







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









Single Circuit Unity 2 LED Mains Supplied c/w Integral Driver













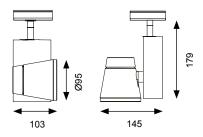


AULEDS2/B

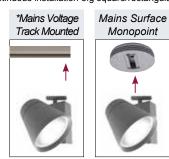
AULEDS2/SS

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

- 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





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				



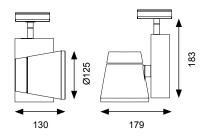




Single Circuit Unity 3 LED Mains Supplied c/w Integral Driver



- 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





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



















AULEDS3/B

AULEDS3SS

AMON/GU10/SS

	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	AMON/GU10/W	Surface Monopoint - White	
	AMON/GU10/B	Surface Mo	onopoint - Black

Surface Monopoint - Satin Silver

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Single Circuit Unity 4 LED Mains Supplied c/w Integral Driver







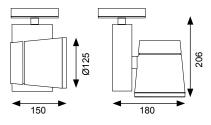


AULEDS4/SS

	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
Accessories	AMON/GU10/W	Surface Monopoint - White	
	AMON/GU10/B	Surface Mo	onopoint - Black

Surface Monopoint - Satin Silver

- 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



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







LED Information

42W
3922lm
3709lm
93lm
88lm
40°
Ra 90
4000K
3000K
230V
50/60Hz
0°C to 25°C







AMON/GU10/SS



Single Circuit Unity Wallwash LED Mains Supplied c/w Integral Driver









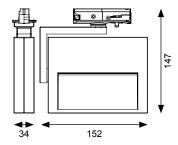






	Code	Lamp	Description
	AULEDSW/CW/W	LED	17W - Cool White - White
	AULEDSW/CW/B	LED	17W - Cool White - Black
	AULEDSW/WW/W	LED	17W - Warm White - White
	AULEDSW/WW/B	LED	17W - Warm White - Black
Accessories	AMON/GU10/W	Surface N	Monopoint - White
	AMON/GU10/B	Surface N	Monopoint - Black

- 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



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





















ACOGU10S/SS





ACOGU10S/SS



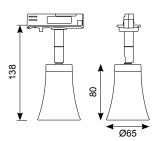
ACOGU10S/B

- Code Lamp Description ACOGU10S/W GU10 White ACOGU10S/B GU10 Black
- Accessories AMON/GU10/W Surface Monopoint - White AMON/GU10/B Surface Monopoint - Black
 - AMON/GU10/SS Surface Monopoint - Satin Silver

GU10

Satin Silver

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



Mains Voltage Track Mounted



Mains Surface Monopoint





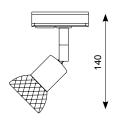






Single Circuit Dara 50W GU10 Mains Supplied Less Lamp

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







Mains Surface Monopoint





















ADGU10S/SS



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

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

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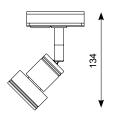






	Code	Lamp	Description
	AZGU10S/W	GU10	White
	AZGU10S/SS	GU10	Satin Silver
Accessories	AMON/GU10/W	Surface Monopoint - White	
	AMON/GU10/SS	Surface Monopoint - Satin Silver	
	AZTR/W	Trim Ring	- White
	AZTR/SS	Trim Ring	- Satin Silver

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







Mains Surface Monopoint











Single Circuit Lanzia 50W GU10 Mains Supplied Less Lamp



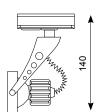












355 degree rotation, spot head tilt angle to 90° Triac Dimmable





Mains Surface Monopoint













Cod	de	Lamp	Description
ALC	GU10S/W	GU10	White
AL	GU10S/B	GU10	Black
ALC	GU10S/SS	GU10	Satin Silver

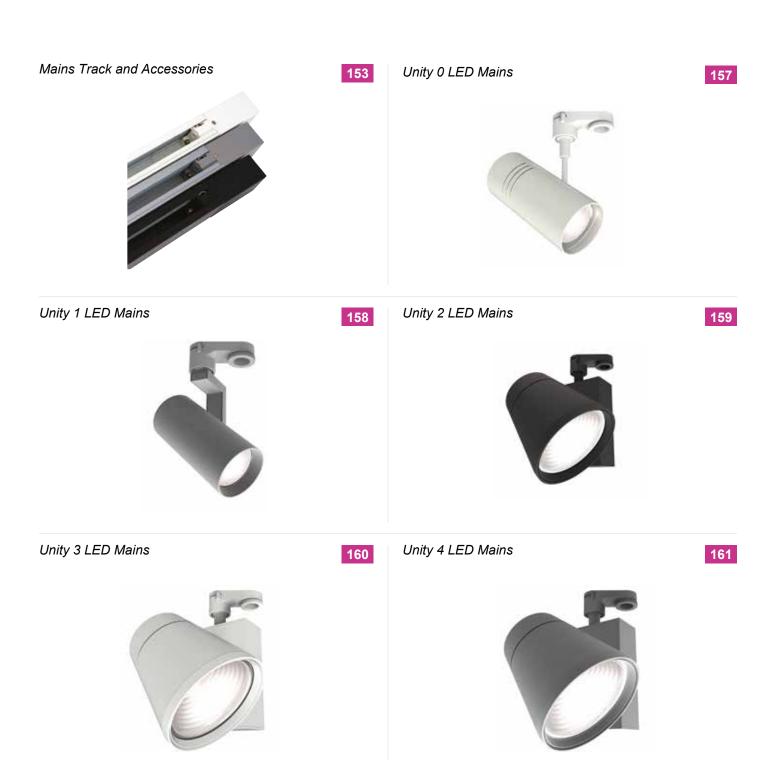
Accessories AMON/GU10/W	Surface Monopoint - White
AMON/GU10/B	Surface Monopoint - Black
AMON/GU10/SS	Surface Monopoint - Satin Silver

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Three Circuit

Track and Surface System with Push-fit and Lock Connection



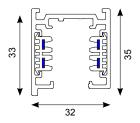
Mains Voltage 16A Three Circuit Track Supplied c/w Live and Dead End



- 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
- Maximum mechanical loading of 50N



Generous Terminal Capacity



Track Cross Section



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



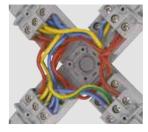




Mains Voltage 16A Three Circuit Track Accessories



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



Flexible incoming wiring access

				access
		Code	Description	
	Live End -	A/3MTLE/PL/W	White	
63	Earth Left	A/3MTLE/PL/B	Black	
		A/3MTLE/PL/SS	Satin Silver	
		A/3MTLE/PR/W	White	
	Live End - Earth Right	A/3MTLE/PR/B	Black	
		A/3MTLE/PR/SS	Satin Silver	
	Butt	A/3MTBC/W	White	
	Connector	A/3MTBC/B	Black	
- 6		A/3MTBC/SS	Satin Silver	
1	Straight	A/3MTSC/W	White	
	Connector	A/3MTSC/B	Black	
		A/3MTSC/SS	Satin Silver	
10	X-Connector	A/3MTXC/W	White	
		A/3MTXC/B	Black	
		A/3MTXC/SS	Satin Silver	
. 4.		A/3MTDE/W	White	
	Dead End	A/3MTDE/B	Black	
		A/3MTDE/SS	Satin Silver	

Mains Voltage 16A Three Circuit Track Accessories







		Code	Description
dh .	L Connector -	A/3MTLC/PI/W	White
	Earth Inside	A/3MTLC/PI/B	Black
10		A/3MTLC/PI/SS	Satin Silver
		A JORATI O JOO JAJ	Maria-
	L Connector - Earth Outside	A/3MTLC/PO/W	White
		A/3MTLC/PO/B A/3MTLC/PO/SS	Black Satin Silver
		A/SWITEC/PO/SS	Sauli Silvei
The state of the s			
		A/3MTTC/PI/W	White
	T-Connector -	A/3MTTC/PI/B	Black
	Earth Inside	A/3MTTC/PI/SS	Satin Silver
		A/3MTTC/PO/W	White
100	T-Connector - Earth Outside	A/3MTTC/PO/B	Black
Just .	Earth Outside	A/3MTTC/PO/SS	Satin Silver
A)			
(A/3MTA/W	White
	6A Track Adaptor	A/3MTA/B	Black
	c/w cable clamp	A/3MTA/SS	Satin Silver
130			
E (IIIIIIIII			
		A/3MTFC/W	White
IIIIIIIIII	Flexible	A/3MTFC/W	Black
	Connector	A/3MTFC/SS	Satin Silver
		AJUNTI O/OO	Cault Giver
/ ()			
4	Suspension	A/3MTSK	c/w 3metre Steel Chord
/-	Kit		
Call			
	_		
	Surface Monopoint	A/3MON/GU10/W	White
	p	A/3MON/GU10/B	Black
		A/3MON/GU10/SS	
		(Diameter 125mm x	Depth 32mm)



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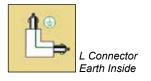
Three Circuit Track Planning System

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





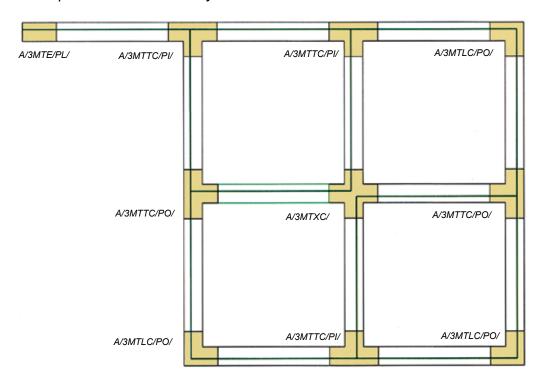






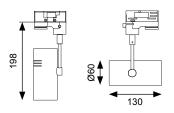


Example of correct accessory selection



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







LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	691lm
Warm White	629lm
Lm/W Cool White	69lm
Lm/W Warm White	63Im
Beam Angle	50°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp -20°0	C to 25°C









Δ/311	FDS0/CW/S	

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	

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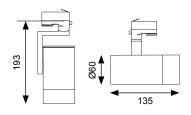
A/3ULEDS1/B

A/3ULEDS1/SS

Cod	de	Lamp	Description
A/3	BULEDS1/W	LED	15W - Cool White - White
A/3	BULEDS1/B	LED	15W - Cool White - Black
A/3	BULEDS1/SS	LED	15W - Cool White - Satin Silver
A/3	BULEDS1/WW/W	LED	15W - Warm White - White
A/3	BULEDS1/WW/B	LED	15W - Warm White - Black
A/3	BULEDS1/WW/SS	LED	15W - Warm White - Satin Silver
A /2	MONICHIAOMA	Curfoso Mo	nancint Mhita

Accessories	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	A/3MON/GU10/SS	Surface Monopoint - Satin Silver

- 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







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

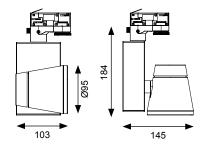






Three Circuit Unity 2 LED Mains Supplied c/w Integral Driver

- 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



*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





A/3ULEDS2/W







A/3ULEDS2/B

A/3ULEDS2/SS

	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
Accessories	A/3MON/GU10/W	Surface Mo	onopoint - White

A/3MON/GU10/B Surface Monopoint - Black A/3MON/GU10/SS Surface Monopoint - Satin Silver

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A/3ULEDS3/B

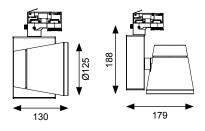






	Code	Lamp	Description
	A/3ULEDS3/W	LED	37W - Cool White - White
	A/3ULEDS3/B	LED	37W - Cool White - Black
	A/3ULEDS3/SS	LED	37W - Cool White - Satin Silver
	A/3ULEDS3/WW/W	LED	37W - Warm White - White
	A/3ULEDS3/WW/B	LED	37W - Warm White - Black
	A/3ULEDS3/WW/SS	LED	37W - Warm White - Satin Silver
Accessories	A/3MON/GU10/W	Surface Mo	pnopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black	
	A/3MON/GU10/SS	Surface Mo	onopoint - Satin Silver

- 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

*Mains Voltage Track Mounted





I FD Information

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



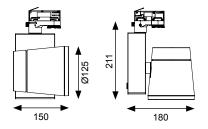




driver Three circuit functionality

LED trackspot with integral

- 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



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





LED Information

Total (Watts)	42W
, ,	4200
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









A/3ULEDS4/B



A/3ULEDS4/SS

Code	Lamp	Description
A/3ULEDS4/W	I LED	42W - Cool White - White
A/3ULEDS4/B	LED	42W - Cool White - Black
A/3ULEDS4/S	S LED	42W - Cool White - Satin Silver
A/3ULEDS4/W	W/W LED	42W - Warm White - White
A/3ULEDS4/W	W/B LED	42W - Warm White - Black
A/3ULEDS4/W	W/SS LED	42W - Warm White - Satin Silver
Accessories A/3MON/GU10	D/W Surface Mo	onopoint - White

Accessories	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	A/3MON/GU10/SS	Surface Monopoint - Satin S

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ASSULED0/CW/W



ASSULED0/CW/B

- replacement 355° rotation with 0-180° tilt on bracket Mirror finish anodised reflector
 - Anti-glare design for visual comfort

True 50W halogen

Compact Surface Mounting LED spotlight with integral

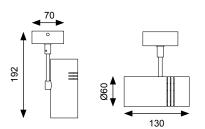
- LED lifespan L70 50,000 hours
- Non-dimmable

driver



ASSULED0/CW/SS

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



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















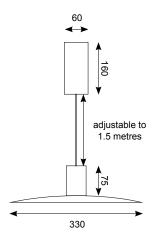




ADRLEDP/WW/B

Code	Lamp	Description
ADRLEDP/WW/W	LED	11.6W - Warm White - White
ADRLEDP/WW/B	LED	11.6W - Warm White - Black

- Decorative pendant with die-cast housing
- White and black paint finish options with white inner shade
- Suitable for hotel, restaurant and commercial applications
- Comparable performance to 75W halogen
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



11.6W
d 734lm
61lm
Ra 90
3000K
220V-240V
50/60Hz
-10°C to 30°C







Jasper LED Supplied c/w Integral Driver

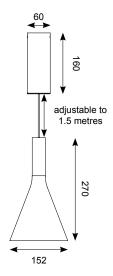








- Decorative pendant with die-cast housing
- White and black paint finish options with white inner shade
- Suitable for hotel, restaurant and commercial applications
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



LED Information

Total (Watts)	10W
Lumens Delivere	ed 452lm
Lm/W	45lm
CRI	Ra 93
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C-to 30°C









AJSLEDP/WW/B

Code	Lamp	Description
AJSLEDP/W	W/W LED	10W - Warm White - White
AJSLEDP/W	W/B LED	10W - Warm White - Black

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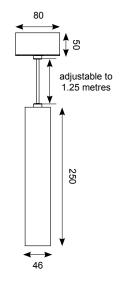






Code	Lamp	Description
AJDLEDP/WW/W	LED	7W - Warm White - White
AJDLEDP/WW/B	LED	7W - Warm White - Black

- 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
- Comparable performance to 50W halogen
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



LLD imormation	
Total (Watts)	7W
Lumens Delivered	512lm
Lm/W	73lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 25°C







Ruby LEDSupplied c/w Integral Driver



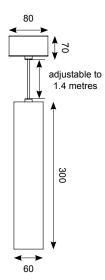






HER

- 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



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
ARULEDP/WW/W	LED	15W - Warm White - White

15W - Warm White - Black

ARULEDP/WW/B

LED

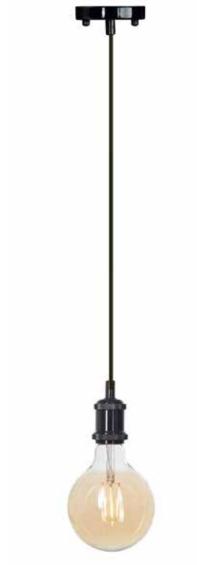
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Suspension options



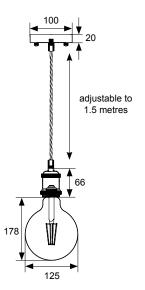




Code	Lamp	Description
ASEC/G125/BLC	LED	7.5W - Amber Coating - Black Chrome
ASEC/G125/AB	LED	7.5W - Amber Coating - Antique Brass

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

- 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



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







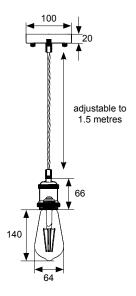
Secco LED

Supplied c/w Amber Coated LED Filament Lamp





- 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



LED Information

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







Suspension options



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







Decco LED Supplied c/w Integral Driver

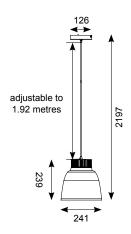








- Compact Decco pendant with die-cast housing and aluminium reflector
- Suitable for domestic, hotel, restaurant and commercial applications
- Matt white textured powder coat paint finish
- 21W exceeds performance of 35W HQI
- 40W exceeds performance of 70W HQI
- LED lifespan L70 54,000 hours
- Non-dimmable



LED Information

Total (Watts)	21W
	40W
Lumens Delivere	ed
21W	1784lm
40W	3595lm
Lm/W 21W	85lm
Lm/W 40W	90lm
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
ADEPLED/HP	LED	40W - Warm White

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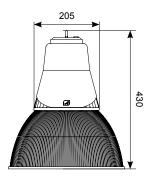


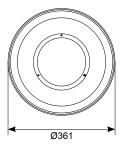




	Code	Lamp	Description
	ADHBLED1/PC	LED	41W - c/w PC Refractor
	ADHBLED2/PC	LED	96W - c/w PC Refractor
	ADHBLED1/ALU	LED	41W - c/w Aluminium Reflector
	ADHBLED2/ALU	LED	96W - c/w Aluminium Reflector
Options	/DD		Digital dimming (DD1/DD2/DD3/DD4)
Accessories	ADHBLED/PC/BC		PC Bottom Cover (360mm)
	ADHBLED/SK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

- 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





Total (Watts)	41W	96W
Lumens Delivere	ed	
/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 Tem	0°02− an	C to 25°C













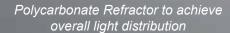
Intricate design allows heat dispersion upwards through deadicated ventilation holes





Aluminium die-cast heat sink for optimal thermal performance

Textured freznel lens to optimise light output and light uniformity





Aluminium Reflector for maximum output efficiency





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





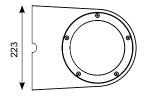


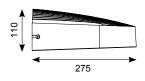




Code Lamp Description **AAROLED** LED 12W - Cool White

- Dual purpose design allows installation in either an uplight 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





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







Elite LED Supplied c/w Integral Driver

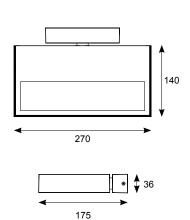








- Dual purpose design allows installation in either an uplight or downlight orientation
- Comparable to 2x24W PL-L
- Adjustable tiltable installation bracket
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



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











Adjustable tiltable installation bracket

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

















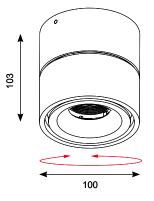




Fully adjustable to 90°

Code	Lamp	Description
AUNIVLED	LED	9W - Warm White

- 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



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







Duo LEDSupplied c/w Integral Driver

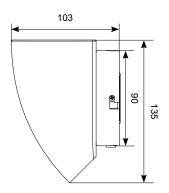


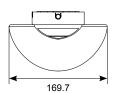






- Feature wall light with bi-directional light distribution
- Die-cast aluminium wall fixture
- Dupont polyester powder coating
- LED lifespan L70 50,000 hours
- Triac dimmable as standard







Total (Watts)	10W
Lumens Delivered	582lm
Lm/W	58lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp -10	0°C to 25°C





Light Distribution



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







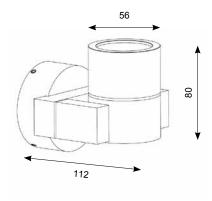








- Modern wall light with adjustable 180° head in vertical plane
- For use in both internal and external applications
- Brushed aluminium finish
- Suitable for GU10 LED or GU10 Mains halogen











Code Description Lamp ARGU10 GU10 35W

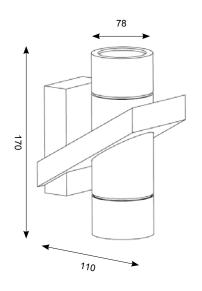
Supplied Less Lamp







- 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

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White



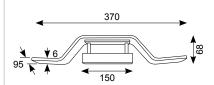


Oak Walnut

	Code	Lamp	Description
Base	AFAMIWL/BASE	LED	9W - Warm White
Covers	AMIFC/W	Front Cov	er - White
	AMIFC/OAK	Front Cov	rer - Oak
	AMIFC/WAL	Front Cov	er - 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





Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 90
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp -1	0°C to 30°C







Fascia LED Supplied c/w Integral Driver



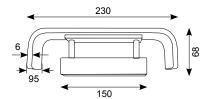






- Modern LED wall light with choice of 3 cover finishes
- Unique design creates even distribution of upward and downward light
- White, oak and walnut cover finishes available
- LED lifespan L70 30,000 hours
- Triac dimmable as standard





LED Information

Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 90
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp -1	0°C to 30°C









White





Oak Walnut

	Code	Lamp	Description
Base	AFAMIWL/BASE	LED	9W - Warm White
Covers	AFAFC/W	Front Cov	ver - White
	AFAFC/OAK	Front Cov	ver - Oak
	AFAFC/WAL	Front Cov	ver - Walnut

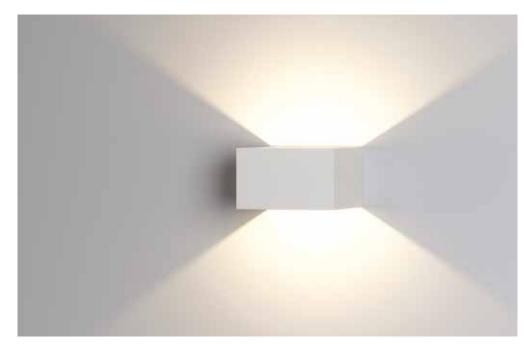
Warrington: +44 (0) 1942 433333 **Belfast:** +44 (0) 2890 773750



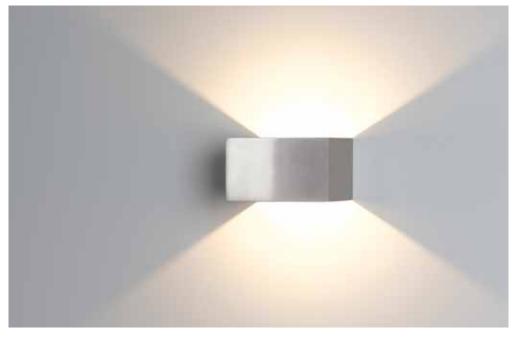






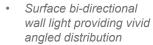


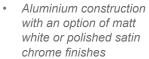
AFWLED/W



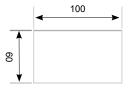
AFWLED/SC

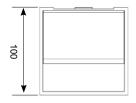
Code	Lamp	Description
AFWLED/W	LED	6.5W Warm White - White
AFWLED/SC	LED	6.5W Warm White - Satin Chrome





- LED lifespan L70 30,000 hours
- Non-dimmable





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







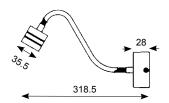
Spectrum LED Gooseneck Wall Light Supplied c/w Integral Driver







- 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	l 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/1	LED/WHI LED	2W Warm White - Satin Silver

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LED Drivers Constant Voltage Non-Dimmable



Constant Voltage 12V





Constant Voltage 24V / 48V





ADK15W/24V

ADK60W/24V



ADK120W/24V





ADK200W/24V

ADK320W/24V

	Code	Description	Α	В	С
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

 $\mathbf{A} = \text{Length} \quad \mathbf{B} = \text{Height} \quad \mathbf{C} = \text{Width}$

- Constant voltage non-dimmable drivers for 12V, 24V and 48V LED applications
- Thermal, short circuit and overload protection









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





Constant Current 700mA









	Code	Description	Α	В	С
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 = He	eight C	= Width	







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ADDIM50W/12V



ADDIM100W/12V

Code	Description	Α	В	С	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 LED 1-10V and Switch Dim Dimmable Driver





ADDIM75W/12V

Code	Description	Α	В	С	D
ADDIM75W/12V	75W	220	42	58	190
	A = Length	B = Height	C = Width	D = Fi	ixing Centres

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





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



Terminals and dimming adjustment







Multicurrent and Voltage Dimmable



- 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



Terminals and dip-switch selection



AMCD25W



AMCD50W

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	Α	В	С	D
AMCD25W	25W	103	21	67	94
AMCD50W	50W	125	22	79	111

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



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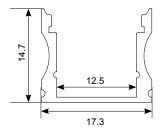
Aluminium Profiles for LED Strip (Supplied Less LED Strip)



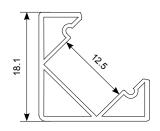




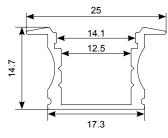
- High quality anodised aluminium profiles for installation with Boa, Krait, Adder, Cobra, Python, Viper and Mamba Ansell LED tapes
- Installation of profiles provide a professional finish to installation and enhances LED chip life through optimised heat dissipation
- Supplied with clear and opal diffusers
- 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







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.



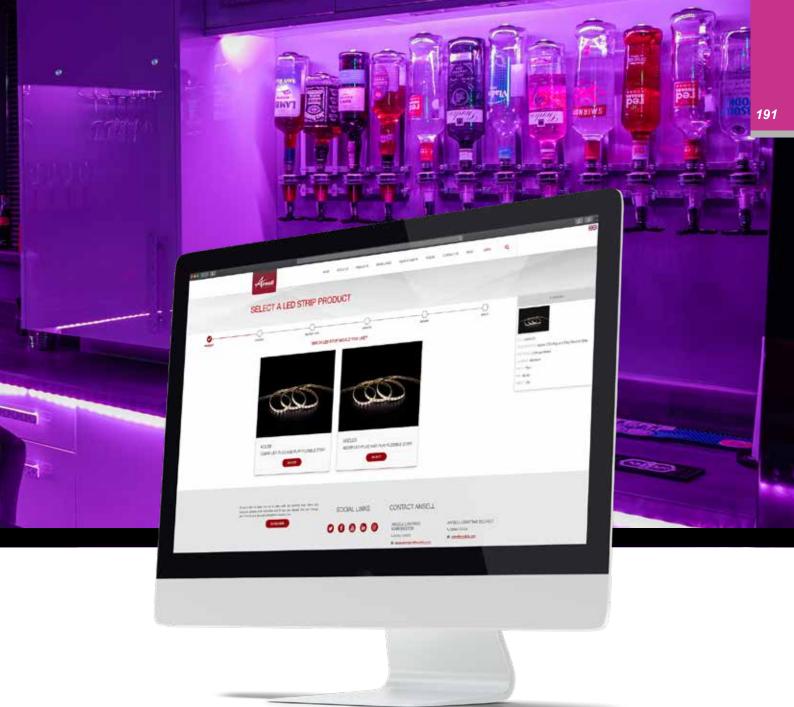
Complete Customisation

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 to find out more...

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

Supplied Less Driver











Code	Lamp	Description
AKRLED/100/CW	LED	100mm - Cool White
AKRLED/100/WW	LED	100mm - Warm White
AKRLED/100/RGB	LED	170mm - RGB
AKRLED/100/RGBW	LED	170mm - RGBW
AKRLED/100/TW	LED	170mm - Tunable White
AKRLED/300/CW	LED	300mm - Cool White
AKRLED/300/WW	LED	300mm - Warm White
AKRLED/300/RGB	LED	330mm - RGB
AKRLED/300/RGBW	LED	330mm - RGBW
AKRLED/300/TW	LED	330mm - Tunable White
AKRLED/500/CW	LED	500mm - Cool White
AKRLED/500/WW	LED	500mm - Warm White
AKRLED/500/RGB	LED	500mm - RGB
AKRLED/500/RGBW	LED	500mm - RGBW
AKRLED/500/TW	LED	500mm - Tunable White
AKRLED/1000/CW	LED	1 Metre - Cool White
AKRLED/1000/WW	LED	1 Metre - Warm White
AKRLED/1000/RGB	LED	1 Metre - RGB
AKRLED/1000/RGBW	LED	1 Metre - RGBW
AKRLED/1000/TW	LED	1 Metre - Tunable White
AKRLED/2000/CW	LED	2 Metre - Cool White
AKRLED/2000/WW	LED	2 Metre - Warm White
AKRLED/2000/RGB	LED	2 Metre - RGB
AKRLED/2000/RGBW	LED	2 Metre - RGBW
AKRLED/2000/TW	LED	2 Metre - Tunable White
AKRLED/5000/CW	LED	5 Metre - Cool White
AKRLED/5000/WW	LED	5 Metre - Warm White
AKRLED/5000/RGB	LED	5 Metre - RGB
AKRLED/5000/RGBW	LED	5 Metre - RGBW
AKRLED/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: 100mm RGB, RGBW and Tunable: 167mm (only if required)
- Joint and connection accessories sold separately
- LED lifespan L70 40,000 hours





LED IIIIOIIIIalioii	
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







Krait Accessories

JOINTS

Easy fast-fit range of plug-in connections

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

ACLED/AMP/TOUCH

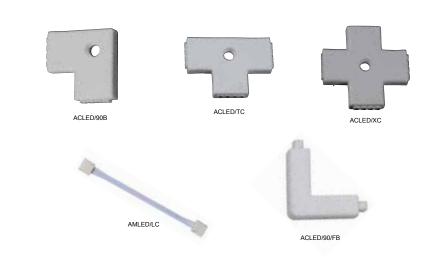
RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations

AOCTO/RGBW/BTC

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



Link Lead Connection











ACLED/RC/TOUCH

AOCTO/RGBW/BTC

	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
Accessories	ADK200W/24V	200W 24V Constant Voltage Driver
	ADK320W/24V	320W 24V Constant Voltage Driver







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Supplied Less Driver





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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





Total (Watts)	13W per metre
Lumens Delivered p	er 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

Boa Accessories

JOINTS

Easy fast-fit range of plug-in connections

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

ACLED/AMP/TOUCH

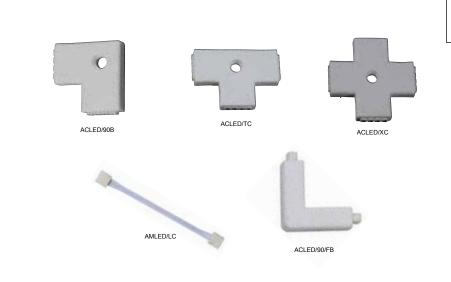
RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations

AOCTO/RGBW/BTC

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



Link Lead Connection











ACLED/RC/TOUCH

AOCTO/RGBW/BTC

	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
Accessories	ADK200W/24V	200W 24V Constant Voltage Driver
	ADK320W/24V	300W 24V Constant Voltage Driver

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

Supplied Less Driver















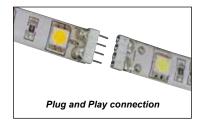
Warm White

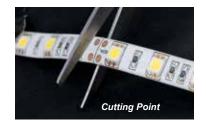




Code	е	Lamp	Description
AAD	LED/100/CW	LED	100mm - Cool White
AAD	LED/100/WW	LED	100mm - Warm White
AAD	LED/100/RGB	LED	100mm - RGB
AAD	DLED/300/CW	LED	300mm - Cool White
AAD	DLED/300/WW	LED	300mm - Warm White
AAD	LED/300/RGB	LED	300mm - RGB
AAD	LED/500/CW	LED	500mm - Cool White
AAD	DLED/500/WW	LED	500mm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

- 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)





Total (Watts)	7.2W per metre
Lumens Delivered p	oer 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





Adder Accessories

JOINTS

Easy fast-fit range of plug-in connections

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

ACLED/AMP/TOUCH

RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations (one per 10 metre length required when used with 75W driver)

AOCTO/RGBW/BTC

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



Link Lead Connection













ACLED/AMP/TOUCH







ACLED/RC/TOUCH

AOCTO/RGBW/BTC

Code	Des	cription
ACLED/90E	90°	Bend
ACLED/90/I	FB 90°	Flat Bend
ACLED/TC	TC	onnector
ACLED/XC	ХC	onnector
ACLED100/	'LL 100	mm Link Lead (White and RGB)
ACLED500/	'LL 500	mm Link Lead (White and RGB)
ACLED1000	D/LL 100	0mm Link Lead (White and RGB)
ACLED/ML	100	0mm Mains Lead
ACLED/ML/	'RGB 100	0mm Mains Lead RGB
ACLED/RC/	TOUCH Tou	ch RGB RF Remote Control
ACLED/AMI	P/TOUCH Tou	ch RGB Amplifier (Repeater)
AMLED/LC	Flex	xible Quick-fit Joint
AOCTO/RG	BW/BTC 12 -	24V Single CCT/RGBW Controller
Accessories AD30W/12V	3 0V	V 12V Constant Voltage Driver
AD75W/12V	750	V 12V Constant Voltage Driver
ADDIM75W	/12V/ 75V/	V 12V Dimmable (1-10V or Switch Dim)







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Cobra 12V LED Plug and Play Flexible Strip 14.4W per Metre

Supplied Less Driver

















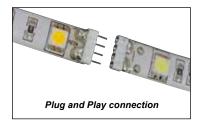
Warm White

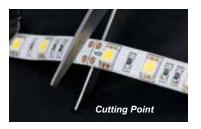




Code		Lamp	Description
ACLE	D/100/CW	LED	100mm - Cool White
ACLE	D/100/WW	LED	100mm - Warm White
ACLE	D/100/RGB	LED	100mm - RGB
ACLEI	D/300/CW	LED	300mm - Cool White
ACLE	D/300/WW	LED	300mm - Warm White
ACLEI	D/300/RGB	LED	300mm - RGB
ACLEI	D/500/CW	LED	500mm - Cool White
ACLE	D/500/WW	LED	500mm - Warm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

- 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)





14.4W per metre
er metre
1000lm
950lm
76lm
73lm
Ra 80
4000K
3000K
RGB
12V

Cobra Accessories

AOCTO/RGBW/BTC

JOINTS

Easy fast-fit range of plug-in connections

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

ACLED/AMP/TOUCH

RGB Amplifier (Repeater) for use with ACLED/RC/TOUCH. Repeater(s) can be added to synchronise larger installations (one per 5 metre length required)

AOCTO/RGBW/BTC

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



Link Lead Connection



ACLED/RC/TOUCH

	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/TOUC	Н	Touch RGB Amplifier (Repeater)
	AMLED/LC		Flexible Quick-fit Joint
	AOCTO/RGBW/BT	C	12 - 24V Single CCT/RGBW Controller
Accessories	AD30W/12V		30W 12V Constant Voltage Driver
	AD75W/12V		75W 12V Constant Voltage Driver
	ADDIM75W/12V		75W 12V Dimmable (1-10V or Switch Dim)









200









Each Kit Includes:-







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	AMLED/LC	Flexible Quick-fit Joint

- 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

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

IR Controller **Power Supply**

Receiver



LED Information

CCT RGB Input 230V Hertz 50/60Hz Operating Temp -20°C to 45°C







36W



	Code	Lamp	Description
	AVLED/KIT	LED	5M 36W RGB LED Strip Kit
Accessories	AMLED/LC	Flexible Q	uick-fit Joint

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- 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



Each Kit Includes:-







5M Tunable Strip

IR Controller

Power Supply

Receiver



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

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









IP65 AC 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



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









RGB

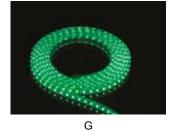
LED













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
		(1Required 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 50 metres run length
- RGB LED suitable for installations up 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

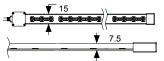
White LED Cut-Lengths

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

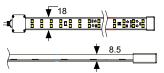
RGB LED Cut-Length

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

RGB Dimensions



White Dimensions



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









Matrix LED CCT Linklight Supplied c/w Integral Driver



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

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

- 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
- Linkable up to a maximum of twelve fittings
- LED lifespan L70 25,000 hours
- Non-dimmable

	Cool White	Warm White	
Total (Watts)	3W		
	7W		
	13W	/	
	18V	/	
Lumens Delivere	d 290lm	272lm	
	712lm	696lm	
	1320lm	1268lm	
	1844lm	1724lm	
Lm/W	97lm	91lm	
	102lm	99lm	
	102lm	98lm	
	102lm	96lm	
CRI	Ra	80	
CCT	400	0K	
	300	0K	
Input	230V		
Hertz	50/60Hz		
Operating Temp	-10°C	to 40°C	







Aspen LED Linklight Supplied c/w Integral Driver

- High performance LED Linklight with integral driver
- Suitable for commercial and domestic applications
- Output exceeds T5 fluorescent equivalent
- Metal spine fitted with integral switch and fixed diffuser
- Linkable up to a maximum of twelve fittings
- LED lifespan L70 25,000 hours
- Non-dimmable



LED Information

Cool White	Warm White	
6W		
10V	/	
16V	/	
22V	/	
d 535lm	531lm	
928lm	871lm	
1660lm	1373lm	
2205lm	2090lm	
89lm	89lm	
103lm	87lm	
111lm	92lm	
100lm	95lm	
Ra 80		
4000K		
3000K		
230V		
50/60Hz		
-5°C to	40°C	
	6W 10M 16W 22W d 535Im 928Im 1660Im 2205Im 89Im 103Im 111Im 100Im Ra 80 4000K 3000K 230V 50/60Hz	









	Code	Lamp	Description	Length	Width	Depth
Cool White	ALEDKL/30	LED	6W - Cool White	321	29	39
	ALEDKL/60	LED	10W - Cool White	550	29	39
	ALEDKL/90	LED	16W - Cool White	883	29	39
	ALEDKL/120	LED	22W - Cool White	1183	29	39
Warm White	ALEDKL/30/WW	LED	6W - Warm White	321	29	39
	ALEDKL/60/WW	LED	10W - Warm White	550	29	39
	ALEDKL/90/WW	LED	16W - Warm White	883	29	39
	ALEDKL/120/WW	LED	22W - Warm White	1183	29	39
Accessories	A250TLL/T5		250mm Link Lead			
	A500TLL/T5		500mm Link Lead			
	A1000TLL/T5		1000mm Link Lead			

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Reveal AC LED Cabinet Light No Driver Required

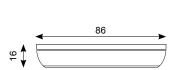








- AC 230V low profile mains surface mounted cabinet light
- No driver required
- Pre-wired with 1.5 metres of mains cable for fast installation
- Direct replacement for traditional halogen
- LED lifespan L70 54,000 hours
- Non-dimmable





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





ARCLED/CW/W



ARCLED/CW/SS

Code	Lamp	Description
ARCLED/CW/W	LED	2W - Cool White - White
ARCLED/CW/SS	LED	2W - Cool White - Silver
ARCLED/WW/W	LED	2W - Warm White - White
ARCLED/WW/SS	LED	2W - Warm White - Silver

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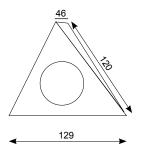
ARLEDTL/CW



ARLEDTL/WW

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

- AC 230V mains surface under cabinet downlight
- No driver required
- 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



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







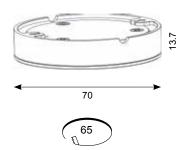
Trio LED Cabinet Light Kit Supplied c/w Remote Driver and Plug and Play Junction Box







- 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







ATCSLED/W	ATCSLED/SI
(Individual)	(Individual)

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

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Gamma Mini LED

Supplied c/w Integral Driver













AMGAMLED



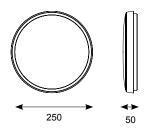
Chrome Trim Ring Fitted



Ultra slim profile

	Code	Lamp	Description
	AMGAMLED	LED	11W - Cool White
	AMGAMLED/WW	LED	11W - Warm White
Options	/M3	Emergency	
	/MWS	Internal Microwave Sensor	

- 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



LED Information

Total (Watts)	11W
Lumens Deliver	ed
Cool White	1031lm
Warm White	971 <i>lm</i>
Lm/W Cool Whi	te 94lm
Lm/W Warm WI	nite 88lm
CRI	Ra 80
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 35°C

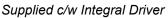






Accessories AMGAMLEDBZ/CH Chrome Trim Ring

Gamma LED





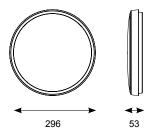








- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Outperforms 38W CFL
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3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





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







Chrome Trim Ring Fitted



Ultra slim profile

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

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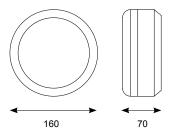








- Multi-purpose compact surface LED bulkhead
- IP44 rating and suitable for bathroom use
- All polycarbonate construction
- Comparable performance to 100W GLS and outperforms 16W CFL equivalents
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours
- Non-dimmable



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









Disco Slim LED CCT

Supplied c/w Integral Driver





















ADSILED1/CCT







fitted with chrome trim ring

Options

/M3

fitted with graphite trim ring

275	5
ADSILED1/CCT	
325	'5

Slim modern design with all polycarbonate construction with opal diffuser and white

One product provides both 3000K and 4000K colour temperature options 7W exceeds performance

13W exceeds performance

Two options of microwave sensor emergency Instant light output and unlimited switching LED lifespan L70 56,000 hours

trim ring

of 16W TC-DD

of 38W TC-DD

LED Information

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

ADSILED2/CCT



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

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)

Supplied c/w Integral Driver























fitted with chrome trim ring

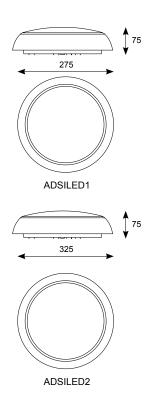
fitted with graphite trim ring

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)	

- 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



LED Information		
Co	ool 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



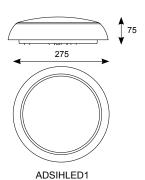


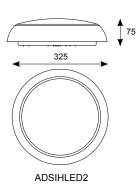






- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- Unique design creates halo light spill effect
- 8W exceeds performance of 28W TC-DD
- 13W comparable performance to 40W TC-DD
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION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





LED Information

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

















ADSIHLED1







Halo light spill effect

fitted with chrome trim ring

fitted with graphite trim ring

Code	Lamp	Description
ADSIHLED1	LED	8W - Cool White
ADSIHLED1/WW	LED	8W - Warm White
ADSIHLED2	LED	13W - Cool White
ADSIHLED2/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)

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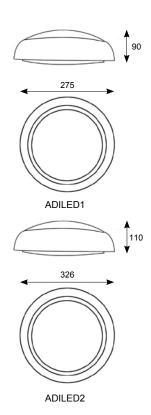


Code	Lamp	Description
ADILED1	LED	8W - Cool White
ADILED2	LED	14W - Cool White

Options	/M3	Emergency (14W only)	
	/MWS	Integral Microwave Sensor (14W only)	
	/MWS/M3/CF	Integral Microwave Sensor and Emergency CorridorFUNCTION (14W only)	
Accessorie	s ADI28BZ/BR	Brass Trim Ring (14W)	
	ADI28BZ/CH	Chrome Trim Ring (14W)	

Silver Grey Trim Ring (14W)

- 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



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







ADI28BZ/SG

Jazz LED Supplied c/w Integral Driver



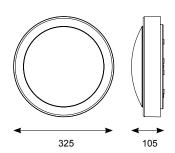








- Contemporary all polycarbonate fixture for wall/ceiling mounting
- LED performance exceeds CFL equivalents
- /MWS/M3/CF provides CorridorFUNCTION with Tridonic control gear
- Optional chrome trim ring
- LED lifespan L70 56,000 hours







Chrome Trim Ring Fitted

LED Information

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





Code	Lamp	Description
AJALED	LED	14W - Cool White

Options	/M3	Emergency
	/MWS	Internal Microwave Sensor
	/MWS/M3/CF	Integral Microwave Sensor and Emergency CorridorFUNCTION

Accessories AJALEDBZ/CH Chrome Trim Ring c/w Integral Driver







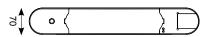






- Ultra-slim unobtrusive modern design
- Directional light output provides optimum facial illumination
- All switches SELV rated for ultimate safety
- Night light function with four minute timed override switch for full power output
- Only 1.8W power consumption in night light
- Optional wiring facility 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.

Total (Watts)	8W
Lumens Delivere	d
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









Dual Voltage Razor Light Supplied c/w Lamp







- 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









- 115Volt and 230Volt outputs
- Supplied with screws and plastic covers



Code	Lamp	Descrip	otion
ADVRL	284mm Strip		60W - White

Dual Voltage Shaver Socket







ADVSS

Code	Lamp	Description
ADVSS		Dual Voltage Shaver Socket

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Project

he Kirktield - Newton-le-Willows, UK



Amenity









Lanterns and Half Lanterns



Bollards



Portable Lanterns



Feature Landscape Illumination



Inground Uplights and Controllers

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Acqua Inox Stainless Steel Supplied Less Lamp



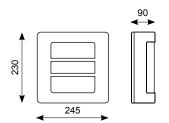








- AISI 316L grade stainless steel wall light with opal polycarbonate diffuser
- Integral E27 PIR option
- Suitable for internal and external applications











Code	Lamp	Description
AACQE27WL/SS	E27	75W E27
AACQE27WL/PIR/SS	E27	75W E27 PIR





Callisto AC LED Low Level No Driver Required











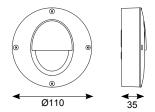
ACLPWLED/W



ACLPWLED/GR

C	ode	Lamp	Description
A	CLPWLED/W	LED	4W - Warm White - White
A	CLPWLED/GR	LED	4W - Warm White - Graphite

- Modern surface mounted ultra-slim low level light
- Die-cast aluminium construction with choice of white or graphite paint finish
- Dupont paint finish
- Tamper-proof stainless steel allen key screws
- LED lifespan L70 50,000 hours
- Non-dimmable



Total (Watts)	4W
Lumens Deliver	red 121lm
Lm/W	31 <i>lm</i>
Beam Angle	51°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-40°C to 80°C









Callisto AC LED Wall/Ceiling No Driver Required













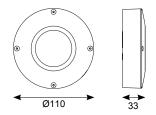
ACLLED/W



ACLLED/GR

Code Lamp Description ACLLED/W LED 4W - Warm White - White ACLLED/GR LED 4W - Warm White - Graphite

- Modern surface mounted ultra-slim wall/ceiling light
- Die-cast aluminium construction with choice of white or graphite paint finish
- Dupont paint finish
- Tamper-proof stainless steel allen key screws
- LED lifespan L70 50,000 hours
- Non-dimmable



Total (Watts)	4W
Lumens Deliver	red 181lm
Lm/W	45lm
Beam Angle	65°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-40°C to 80°C







Furia AC LED

No Driver Required





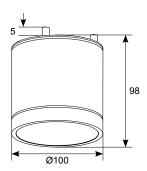








- Modern aesthetic appearance
- Exceeds performance of 1x26W PL
- 37° beam angle
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



LED Information

Total (Watts)	10W
Lumens Deliver	red 719lm
Lm/W	74lm
Beam Angle	37°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



















AFULED/GR

Code	Lamp	Description
AFULED/W	LED	10W - Warm White - White
AFULED/GR	LED	10W - Warm White - Graphite

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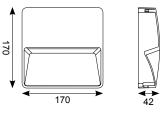






Code	Lamp	Description
AGALSQLED	LED	10W - Cool White

- 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



Total (Watts)	10W
Lumens Deliver	ed 300lm
Lm/W	30lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C







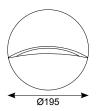
Matala LED Supplied c/w Integral Driver







- 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 Deliver	red 360lm
Lm/W	36lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C









Code	Lamp	Description
AMATROLED	LED	10W - Cool White

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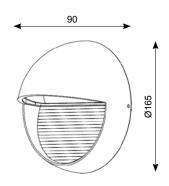
AKLED/B



AKLED/SG

Code	Lamp	Description
AKLED/B	LED	4.5W Cool White - Black
AKLED/SG	LED	4.5W Cool White - Silver Grey

- 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



Total (Watts)	4.5W
Lumens Delivere	ed 270lm
Lm/W	60lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C







Senza LED Supplied c/w Integral Driver

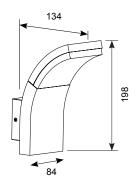






- Contemporary die-cast aluminium LED wall light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable







LED Information

Total (Watts)	6.5W
, ,	
Lumens Deliver	red 366lm
Lm/W	52lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C







ASELED/WL/PIR

	Code	Lamp	Description
Standard	ASELED/WL	LED	6.5W Cool White
PIR	ASELED/WL/PIR	LED	6.5W - PIR - Cool White

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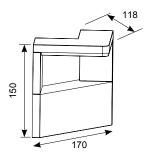




	Code	Lamp	Description
Standard	AARLED/WL	LED	11W Cool White
PIR	AARLED/WL/PIR	LED	11W - PIR - Cool White

- Ultra modern LED wall light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable







Total (Watts)	11W
Lumens Deliver	ed 643lm
Lm/W	58lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

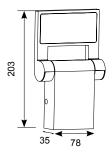






Tempo LEDSupplied c/w Integral Driver

- 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





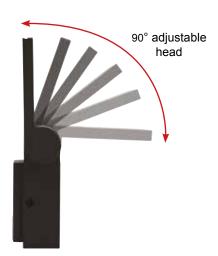


Total (Watts)	10W
Lumens Deliver	red 738lm
Lm/W	73lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

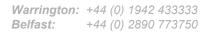




ATLED/WL/PIR



	Code	Lamp	Description
Standard	ATLED/WL	LED	10W Cool White
PIR	ATLED/WL/PIR	LED	10W - PIR - Cool White











ADOCLED/WL

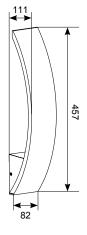


ADOCLED/WL/PIR

	Code	Lamp	Description
Standard	ADOCLED/WL	LED	10W Cool White
PIR	ADOCLED/WL/PIR	LED	10W - PIR - Cool White

- Ultra modern LED wall light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours
- Non-dimmable







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









Pavia Solar LED

Supplied c/w Integral Driver



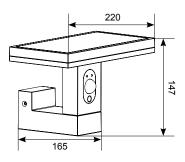






- Ultra modern die-cast solar powered aluminium LED wall light
- PIR motion sensor as standard
- Automatic day/night mode switching
- 2 operation modes:-1) 15% output after sunset, motion detected 100% output, no motion 15% for 20 hours 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours







LED Information

Lumens Delivere	d 230lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C









Code	Lamp	Description
APAVLED/WL	LED	Cool White

Accessories ASBP/17 7.4V 1500mAh Replacement Li-ION Battery

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Talana Solar LED

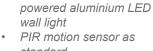
Supplied c/w Integral Driver











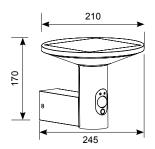
standard 2 operation modes:-1) 11% output after sunset, motion detected 100% output, no motion 11% for

Ultra modern die-cast solar

- 20 hours 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours









LED Information

Lumens Delivere	ed 210lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C









Code	Lamp	Description
ATASLED/WL	LED	Cool White

Accessories ASBP/17 7.4V 1500mAh Replacement Li-ION Battery

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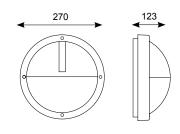




- Die-cast aluminium construction with tamperproof stainless steel allen key screws and opal polycarbonate diffuser
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description
AUNLED	LED	12W - Cool White - Black
AUNLED/SG	LED	12W - Cool White - Silver Grey



Total (Watts)	12W
Lumens Delivered	d 442lm
Lm/W	37lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C







Tridon LED CCT

Supplied c/w Integral Driver

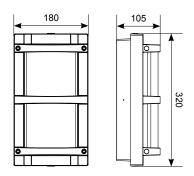








- Die-cast aluminium construction with opal polycarbonate diffuser
- Exceeds performance of 16W TC-DD
- Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K at the point of installation
- Rear fixing points allowing the option for BESA box mounting
- Horizontal 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



LED Information

Total (Watts)	7.5W
Lumens Deliver	red
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

















ATRILED/G Warm White

Code	Lamp	Description
ATRILED/B	LED	7.5W - Cool White/ Warm White - Black
ATRILED/G	LED	7.5W - Cool White/ Warm White - Graphite

Options	/PC	Electronic Photocell
	/MWS	Integral Microwave Sensor

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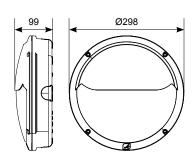
Co	ode	Lamp	Description
Al	LUCLED/B	LED	18W/27W - Cool White/ Warm White - Black
Al	LUCLED/G	LED	18W/27W - Cool White/ Warm White - Graphite

Options	/PC	Electronic Photocell
	/M3	Emergency
	/SM3	Self-Test Emergency
	/DM3	DALI Emergency
	/MWS	Integral Microwave Sensor

- Die-cast aluminium construction with tamperproof 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



Removable 20mm conduit entry cover for ease of installation



Total (Watts)	18W/27W	
Lumens Deliver	red 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	





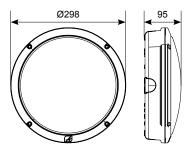


Nappa LED CCT Supplied c/w Integral Driver

- Die-cast aluminium construction with tamperproof 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



Removable 20mm conduit entry cover for ease of installation



LED Information

Total (Watts)	18W/28W	
Lumens Deliver	ed 4000K	3000K
18W	2104lm	2012lm
28W	3065lm	2924lm
Lm/W 18W	117lm	112lm
Lm/W 28W	110lm	105lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	220-240V	
Hertz	50/60Hz	
Operating Temp	-20°C to 25°C	



















Integral switches for multi-wattage

and selectable CCT options







Options	/PC	Electronic Photocell
	/M3	Emergency
	/SM3	Self-Test Emergency
	/DM3	DALI Emergency
	/MWS	Integral Microwave Sensor

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





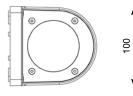


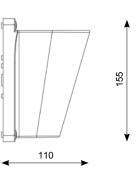




Code Description Lamp ADU50 GU10 50W

- 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













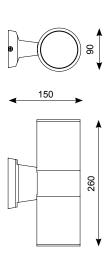
Duo Midi Supplied Less Lamp







- Bi-directional wall light with housing in die-cast aluminium with a textured paint finish
- Large diameter housing to provide heat dissipation









ADM50GU1	n

Code	Lamp	Description
ADM50GU10	GU10	2 x 50W - Black
ADM50GU10/SG	GU10	2 x 50W - Silver Grey

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



Supplied Less Lamp

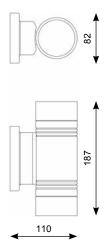








- Bi-directional wall light
- Ideal for GU10 LED or GU10 mains halogen options
- Aluminium construction with graphite textured paint finish











Code Lamp Description ATA2X50 GU10 2 x 50W





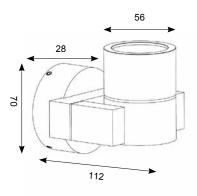








- Modern wall light with adjustable 180° head in vertical plane
- For use in both internal and external applications
- Brushed aluminium finish
- Suitable for GU10 LED or GU10 Mains halogen











Code	Lamp	Description
ARGU10	GU10	35W

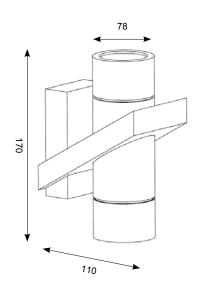
Supplied Less Lamp







- 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

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





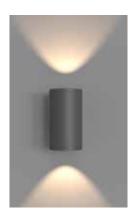


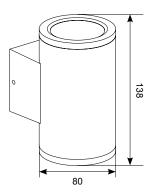




Code	Lamp	Description
ANTIALED	LED	12W - Cool White

- 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





Total (Watts)	12W
Lumens Deliver	red 406lm
Lm/W	37lm
Beam Angle	90°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C







Zart LEDSupplied c/w Integral Driver

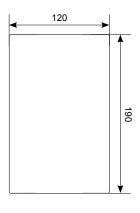






- Bi-directional LED wall light
- Die-cast aluminium construction with graphite paint finish
- 105° Beam Angle
- LED lifespan L70 30,000 hours
- Non-dimmable







Total (Watts)	12W
Lumens Deliver	red 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











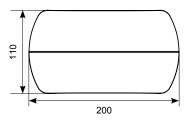


Code Description Lamp **ASEGLED** LED 13W - Cool White

- Bi-directional LED wall light
- Die-cast aluminium construction with polycarbonate diffuser
- 90° Beam Angle
- LED lifespan L70 30,000 hours
- Non-dimmable







Total (Watts)	13W
Lumens Deliver	red 610lm
Lm/W	47lm
Beam Angle	90°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C







Gila LED Supplied c/w Integral Driver





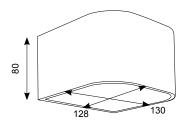




- Modern bi-directional wall light providing vivid angled light distribution
- Exceeds performance of 100W halogen
- Die-cast aluminium body with a graphite powder coated anodized paint finish for enhanced durability
- LED lifespan L70 30,000 hours
- Non-dimmable







Total (Watts)	11W
Lumens Deliver	red 202lm
Lm/W	18lm
Beam Angle	117°
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C









Cod	e	Lamp	Description
AGI	ED/WL	LED	11W - Cool White





Brock LED Wall LightSupplied c/w Integral Driver





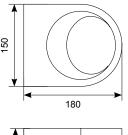




Code Lamp Description ABRLED/WL/CW LED 7.7W - Cool White ABRLED/WL/WW LED 7.7W - Warm White

- 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







Total (Watts)	7.7W
Lumens Deliver	red
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











Duo Midi LED

Supplied c/w Integral Driver

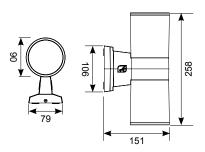






- Bi-directional LED wall light
- 19W exceeds performance of 70W CDM-T
- 42W exceeds performance of 150W CDM-T
- Die-cast aluminium construction with graphite paint finish
- 34° beam angle
- LED lifespan L70 50,000 hours
- Non-dimmable





Total (Watts)	19W
	42W
Lumens Delivered	1
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















LED IIIIOIIIIauoii	
Total (Watts)	19W
	42W
Lumens Delivered	1
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



ADMLED1/GR/CW

Code	Lamp	Description
ADMLED1/GI	R/CW LED	19W - Cool White - Graphite
ADMLED2/GI	R/CW LED	42W - Cool White - Graphite



Doppio LEDSupplied c/w Integral Driver

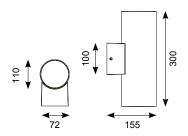








- Powerful architectural bi-directional wall light
- Exceeds performance of 50W HQI
- Die-cast aluminium construction with graphite paint finish
- 20° beam angle
- LED lifespan L70 50,000 hours
- Non-dimmable



LED Information

Total (Watts)	34W
Lumens Deliver	red 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

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



Doppio HP LEDSupplied c/w Integral Driver



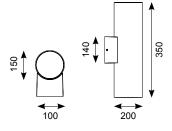






Code	Lamp	Description
ADOLED	OWL/HP LED	56.3W - Cool White

- 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



Total (Watts)	56.3W
Lumens Deliver	ed 2x2573lm
Lm/W	91lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C











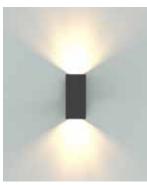






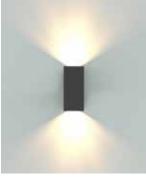






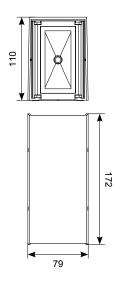
Full Open Beam Angle

Independent beam angle Adjustment



Code Lamp Description **ALTOLED** LED 6W - Cool White

- 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



Total (Watts)	6W
Lumens Deliver	ed 205lm
Lm/W	34lm
Beam Angle	0° - 90°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 50°C







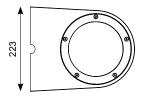
Aero LED Supplied c/w Integral Driver

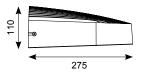






- Dual purpose design allows installation as either a canopy light or as an uplight
- Comparable performance to 20W HQI
- Aluminium housing is manufactured from high purity marine grade aluminium and treated with a six stage chrome plating treatment and dry polyester powder coating ensuring excellent corrosion resistance
- Screws manufactured from marine grade stainless steel
- LED lifespan L70 50,000 hours
- Tempered glass cover
- Non-dimmable





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













Top View

Code	Lamp	Description
AAROLED	LED	12W - Cool White

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







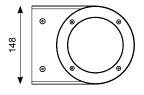


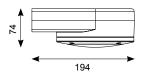




Code Description Lamp **ABEAMLED** LED 20W - Cool White

- 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
- Allen key screws manufactured from marine grade stainless steel
- LED lifespan L70 70,000 hours
- Non-dimmable





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









Eclipse MultiLED Supplied c/w Integral Driver





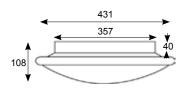








- LED wall/ceiling luminaire with adjustable power and light output option
- One product with integral driver dip-switch
- Lumen package options allow retrofit of 28W, 38W or 55W CFL luminaires
- Flexibility of performance allows suitability for multiple applications
- Spun aluminium base with dished 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
AECLED/W	LED	10W/13W/26W - White
AECLED/CH	LED	10W/13W/26W - Chrome
AECLED/SC	LED	10W/13W/26W - Satin Chrome
AECLED/WW/W	LED	10W/13W/26W - White - Warm White
AECLED/WW/CH	LED	10W/13W/26W - Chrome - Warm White
AECLED/WW/SC	LED	10W/13W/26W - Satin Chrome - Warm White

Options	/M3	Self-Test Emergency
	/DD	Digital Dimming (DD1/DD2/DD3/DD4 - 26W only)
	/MWS	Integral Microwave Sensor

Total (Watts) 10W/13W/26W		
Lumens Deliver	red 4000K	3000K
10W	1107lm	1041lm
13W	1400lm	1315lm
26W	2695lm	2521lm
Lm/W 10W	111lm	104lm
Lm/W 13W	108lm	101lm
Lm/W 26W	104lm	97lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-10°C to 40°C	









Mercury CCT LED Supplied c/w Integral Driver





















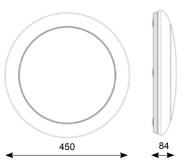
Chrome Trim Ring Fitted

Code	Lamp	Description
AMERLED/CCT	LED	19W - Matt White - Cool White/Warm White
AMERLED/HP	LED	33W - Matt White - Warm White Only

Options	/M3	Emergency
	/осто	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3)
	/MWS	Integral Microwave Sensor

Accessories AMERLEDBZ/CH Chrome Trim Ring

- 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



Total (Watts)	19W	
	33W	
Lumens Deliver	ed 4000K	3500K
19W	1655lm	1420lm
33W	N/A	2702lm
Lm/W 19W	87lm	71lm
Lm/W 33W	N/A	82Im
CRI	Ra 80	
CCT	4000K	
	3500K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-10°C to 40°C	







Beta LED

Supplied c/w Integral Driver

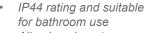








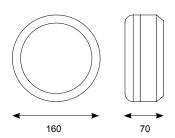




- All polycarbonate construction
- Comparable performance to 100W GLS and outperforms 16W CFL equivalents

Multi-purpose compact surface LED bulkhead

- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours
- Non-dimmable





Total (Watts)	5W
Lumens Delivered	d 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













AMGAMLED



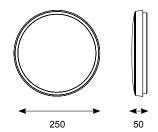
Chrome Trim Ring Fitted



Ultra slim profile

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

- 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



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







Gamma LED

Supplied c/w Integral Driver

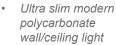




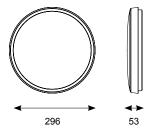








- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Outperforms 38W CFL with opal diffuser by 25% and prismatic diffuser by 52%
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- /MWS and MWS/M3 has integral photocell isolation switch
- LED lifespan L70 54,000 hours
- Non-dimmable



LED Information

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









Chrome Trim Ring Fitted



Ultra slim profile

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

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











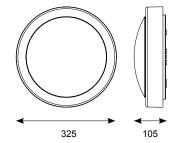






Chrome Trim Ring Fitted

- 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



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







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

Disco Slim LED CCT

Supplied c/w Integral Driver



















Two options of microwave sensor emergency Instant light output and unlimited switching

Slim modern design with all polycarbonate construction with opal diffuser and white

7W exceeds performance of

13W exceeds performance of

Internal CCT selector switch allows the installer to choose the CCT between 3000K and 4000K at the point of

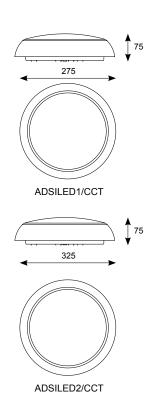


trim ring

16W TC-DD

38W TC-DD

installation



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















fitted with chrome trim ring

fitted with graphite trim ring

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	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)

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Disco Slim LED

Supplied c/w Integral Driver





















fitted with chrome trim ring

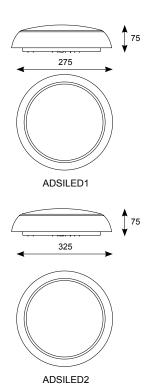
fitted with graphite trim ring

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

- 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



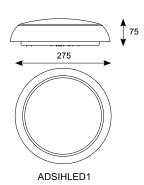
LED Information		
Co	ool White	Warm White
Total (Watts)		8W
		13W
Lumens Delivered	584lm	547lm
	1021lm	979lm
Lm/W	73Im	68lm
	79Im	75lm
CRI		Ra 80
CCT		4000K
		3000K
Input		230V
Hertz		50Hz
Operating Temp	-10°	C to 25°C

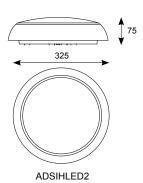






- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- Unique design creates halo light spill effect
- 8W exceeds performance of 28W TC-DD
- 13W comparable performance to 40W TC-DD
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION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





LED Information

Co	ool 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













ADSIHLED1







Halo light spill effect

fitted with chrome trim ring

fitted with graphite trim ring

Code	Lamp	Description
ADSIHLED1	LED	8W - Cool White
ADSIHLED1/WW	LED	8W - Warm White
ADSIHLED2	LED	13W - Cool White
ADSIHLED2/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)

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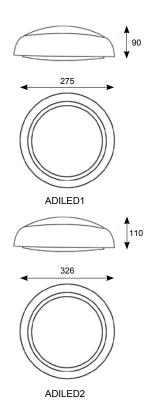


Code	Lamp	Description
ADILED1	LED	8W - Cool White
ADILED2	LED	14W - Cool White

/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)

- 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



LLD imormation	
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





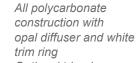


Disco CFL Supplied c/w Lamp



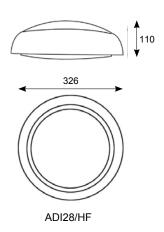






- Optional trim rings available in brass, chrome and silver grey finishes
- Suitable for bathrooms















fitted with silver grey trim ring

	Code	Lamp	Description
	ADI28/HF	TC-DD	28W
Options	/M3	Emergen	су
Accessorie	es ADI28BZ/BR	Brass Tri	m Ring (28W)
	ADI28BZ/CH	Chrome 7	Frim Ring (28W)
	ADI28BZ/SG	Silver Gre	ey Trim Ring (28W)

Belfast:



















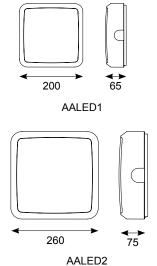


Code	Lamp	Description
AALED1/BV	LED	7W - Cool White - Black Base, Visiluxe Cover
AALED1/WV	LED	7W - Cool White - White Base, Visiluxe Cover
AALED2/BV	LED	14W - Cool White - Black Base, Visiluxe Cover
AALED2/WV	LED	14W - Cool White - White Base, Visiluxe Cover

(Fitted with Trim Attachment)

Options	/PC	Electronic Photocell			
	/M3	Emergency (14W only)			
	/MWS	Integral Microwave Sensor (14W only)			

- 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
- 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



7W
14W
1
628lm
1220lm
89lm
87lm
Ra 80
4000K
230V
50Hz
-10°C to 25°C





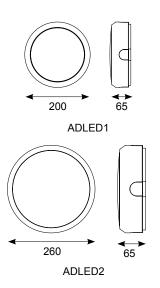




Delta LED

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
- 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



LED Information

Total (Watts)	6W
	14W
Lumens Deliver	red
6W	661lm
14W	1208lm
Lm/W	110lm
	86lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 25°C























ADLED1/BV

ADLED1/WV (Fitted with Trim Attachment)



ADLED2/BV (Fitted with Louvred Bezel Trim)

	Code	Lamp	Description	
	ADLED1/BV	LED	6W - Cool White - Black Base, Visiluxe Cover	
	ADLED1/WV	LED	6W -Cool White - White Base, Visiluxe Cover	
	ADLED2/BV	LED	14W - Cool White - Black Base, Visiluxe Cover	
	ADLED2/WV	LED	14W - Cool White - White Base, Visiluxe Cover	
Options	/PC	Electronic Photocell		
	/M3	Emergency (14W only)		
	/MWS	Integral Microwave Sensor (14W only)		
Accessories	s ADLED2/BZ/EYE/B	Black Eyelid Bezel Trim (14W Only)		
	ADLED2/BZ/EYE/W	White Eyelid Bezel Trim (14W Only)		
	ADLED2/BZ/GRILL/B	Black Louvred Bezel Trim (14W Only)		

ADLED2/BZ/GRILLW White Louvred Bezel Trim (14W Only)

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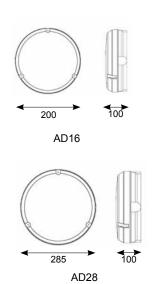


AD16/WP/HF

- Multi-purpose range of circular bulkhead fittings for both internal and external installations
- All polycarbonate construction
- Body options of black or white base with diffuser options of clear prismatic or opal



AD28/BP/HF



Code	Lamp	Description
AD16/BP/HF	TC-DD	16W - Black Base / Prismatic Cover
AD16/WO/HF	TC-DD	16W - White Base / Opal Cover
AD16/WP/HF	TC-DD	16W - White Base / Prismatic Cover
AD28/BP/HF	TC-DD	28W - Black Base / Prismatic Cover
AD28/WO/HF	TC-DD	28W - White Base / Opal Cover
AD28/WP/HF	TC-DD	28W - White Base / Prismatic Cover

Options	/M3	Emergency (28W only
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Mini Vision 3 LED

Supplied c/w Integral Driver and 3 Trim Designs

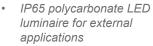




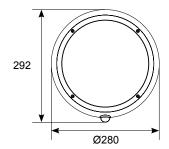








- Each fitting supplied with plain, louvred eyelid and plain eyelid covers
- Exceeds performance of 28W TC-DD
- LED lifespan L70 36,000 hours
- Non-dimmable
- PIR provides tri-level dimming option with 100%-10% output and manual override







Max 8 metres 8 seconds to 5 minutes 2 to 2000 LUX

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









AVIMLED/SG/PIR - Fitted with Louvred Eyelid

AVIMLED/W - Fitted with Plain Eyelid

	Code	Lamp	Description
Standard	AVIMLED/GR	LED	9W - Graphite
	AVIMLED/SG	LED	9W - Silver Grey
	AVIMLED/W	LED	9W - White
PIR	AVIMLED/GR/PIR	LED	9W - PIR - Graphite
	AVIMLED/SG/PIR	LED	9W - PIR - Silver Grey
	AVIMLED/W/PIR	LED	9W - PIR -White

Option /PC Electronic Photocell

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Discrete integral PIR





Fitted with Plain Eyelid



Selectable

Fitted with Louvred Eyelid

	Code	Lamp	Description
Standard	AVILED/CCT/GR	LED	17W - Graphite - Cool White/Warm White
	AVILED/CCT/SG	LED	17W - Silver Grey - Cool White/Warm White
	AVILED/CCT/W	LED	17W - White - Cool White/Warm White
PIR	AVILED/CCT/GR/PIR	LED	17W - Graphite - Cool White/Warm White - PIR
	AVILED/CCT/SG/PIR	LED	17W - Silver Grey - Cool White/Warm White - PIR
	AVILED/CCT/W/PIR	LED	17W - White - Cool White/Warm White - PIR

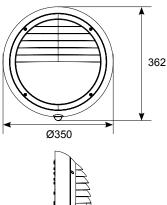
Powered by

Options	/PC	Electronic Photocell	
	/M3	Emergency	
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)	
	/MWS	Integral Microwave Sensor	

- IP65 CCT polycarbonate 3-In-1 LED luminaire for external applications
- Each fitting supplied with plain, louvred eyelid and plain eyelid covers
- CCT selectable between 3000K and 4000K
- Exceeds performance of 38W TC-DD
- LED lifespan L70 56,000 hours
- PIR provides tri-level dimming option with 100%-10% output and manual override



8 seconds to 5 minutes 2 to 2000 LUX





LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	1420lm
Warm White	1324lm
Lm/W Cool White	84lm*
Lm/W Warm White	e 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



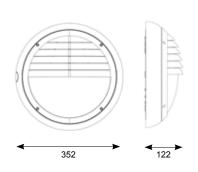




Vision 3 HP LED

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



LED Information

Total (Watts)	31W
Lumens Delivered	1
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















Powered by

TRIDONIC









Fitted with Solid Eyelid

Fitted with Louvred Eyelid

Code	Lamp	Description
AVILED/HP/GR	LED	31W - Graphite - Cool White
AVILED/HP/SG	LED	31W - Silver Grey - Cool White
AVILED/HP/W	LED	31W - White - Cool White

Options	/PC	Electronic Photocell	
	/M3	Emergency	
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)	
	/MWS	Integral Microwave Sensor	

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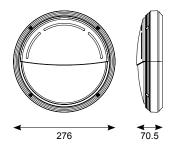




ATOPLED/W

Co	ode	Lamp	Description
AT	OPLED/B	LED	8W - Cool White - Black
AT	OPLED/W	LED	8W - Cool White - White

- All polycarbonate decorative wall light
- Feature eyelid cover
- Exceeds performance to 18W PLC
- LED lifespan L70 56,000 hours
- Non-dimmable



Total (Watts)	8W
Lumens Delivere	ed 439lm
Lm/W	55lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 25°C







Helder LED Circular Bulkhead

Supplied c/w Integral Driver



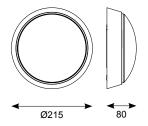






- All polycarbonate circular bulkhead for external applications
- fast loop-in / loop-out connections
- Comparable performance to 28W TC-DD
- Body options of black or white
- · Polycarbonate opal diffuser
- LED lifespan
 L70 25,000 hours
- Non-dimmable





Total (Watts)	14W
Lumens Deliver	red
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





AHELED/CB





AHELED/CW/PIR



	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

Helder LED Oval Bulkhead

Supplied c/w Integral Driver











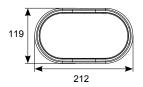
AHELED/OW/PIR



AHELED/O/B

	Code	Lamp	Description
Standard	AHELED/OB	LED	14W - Black - Cool White
	AHELED/OW	LED	14W - White - Cool White
PIR	AHELED/OB/PIR	LED	14W - Black - Cool White - PIR
	AHELED/OW/PIR	LED	14W - White - Cool White - PIR

- All polycarbonate oval bulkhead for external applications
- fast loop-in / loop-out connections
- Comparable performance to 28W TC-DD
- Body options of black or
- Polycarbonate opal diffuser
- LED lifespan L70 25,000 hours
- Non-dimmable







Total (Watts)	14W
Lumens Deliver	red
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







Sorrento 2 LED

Supplied c/w Integral Driver, Plain Cover and Eyelid Cover

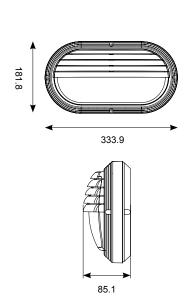








- Shallow depth IP65 polycarbonate 2-In-1 LED bulkhead for external applications
- Supplied with both plain and louvred eyelid covers
- Exceeds performance of 18W PLC
- LED lifespan L70 56,000 hours
- Non-dimmable



LED Information

Total (Watts)	8W
Lumens Delivere	d 634lm
Lm/W	79lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-0°C to 25°C











ASR2LED/B (Louvred Eyelid Cover)

ASR2LED/W (Louvred Eyelid Cover)

Code	Lamp	Description
ASR2LED/B	LED	8W - Cool White - Black
ASR2LED/W	LED	8W - Cool White - White



Sleek LED Polycarbonate Bulkhead Supplied c/w Integral Driver





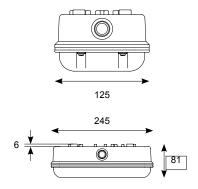








- All polycarbonate multipurpose bulkhead
- Exceeds performance of 9W PL
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Instant light output and unlimited switching
- LED lifespan L70 56,000 hours
- Non-dimmable



Total (Watts)	6W
Lumens Delivere	ed 440lm
Lm/W	73lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C







- Code Description Lamp **ASBLED** LED 6W - Cool White
- **Options** /PC Electronic Photocell /MWS Integral Microwave Sensor

Sleek LED 110V Polycarbonate Bulkhead Supplied c/w Integral Driver





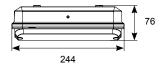






- All polycarbonate multipurpose bulkhead
- Exceeds performance of 9W PL
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Suitable for all types of site lighting
- Instant light output and unlimited switching
- Red diffuser accessory available for applications that require warning indication luminaires
- LED lifespan L70 56,000 hours
- Non-dimmable





LED Information

Total (Watts)	5W
Lumens Deliver	red 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
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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Supplied Less Lamp

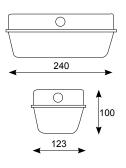


- Aluminium alloy body to prevent corrosion
- Option of vandal resistant polycarbonate or glass



(Code	Lamp	Description
,	A100PC	E27	100W - Polycarbonate Lens
	A100GC	E27	100W - Glass Lens













E27 Polycarbonate Bulkhead Supplied Less Lamp

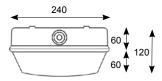








Vandal resistant all polycarbonate construction

















Code	Lamp	Description
A100POLY	E27	100W - Black Base

Options /PC	Electronic Photocell
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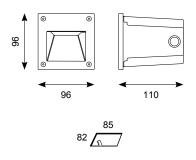








- Compact low level square LED pathway light with downward light spill
- Die-cast aluminium construction with graphite paint finish
- Supplied c/w plastic installation box and pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



Total (Watts)	3W
Lumens Delivere	d 79lm
Lm/W	22lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C









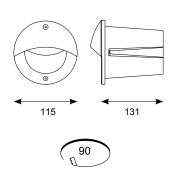
Parona LED Supplied c/w Integral Driver







- 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 Delivere	d 178lm
Lm/W	45lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

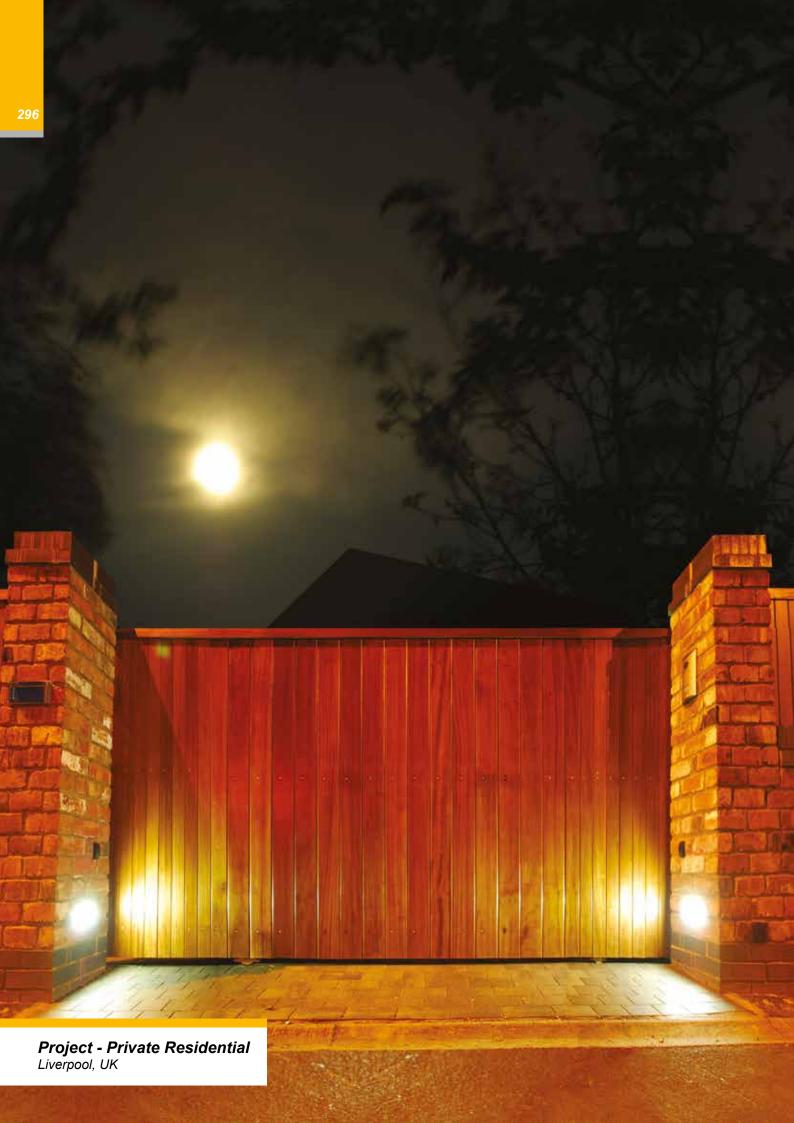






Code	Lamp	Description
APCL	EDWL LED	3W - Cool White





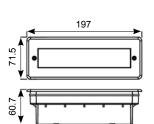
Libretto LED Bricklight Supplied c/w Integral Driver







- 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



LED Information

Total (Watts)	2W
Lumens Delivere	d
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	. La	mp Des	scription
ALIB	LED/WHI LE	D 2W	- Daylight
ALIB	LED/BLU LE	D 2W	- Blue



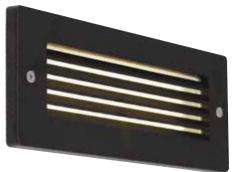
Fidenza LED Bricklight Supplied c/w Integral Driver











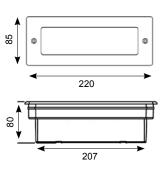
AFBL/GRILL Cover Fitted



AFBL/EYE Cover Fitted

Code	Lamp	Description
AFBLLED	LED	2.2W - Cool White
Accessories AFBL/GRILL	Front Grill Cover	
AFBL/EYE	Front Eyelid Cover	

- 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 Delivere	d 145lm
Lm/W	66lm
CRI	Ra 65
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C









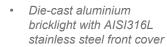
LED Inox Stainless Steel Bricklight Supplied c/w Integral Driver



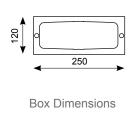


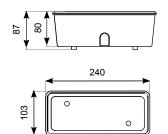






- Comparable performance to 18W PLC
- Tempered and frosted 4mm glass diffuser
- Supplied c/w polyethelyne back box for recessing
- LED lifespan L70 50,000 hours
- Non-dimmable







Total (Watts)	12W
Lumens Delivered	d 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

Volant LED Supplied c/w Integral Driver

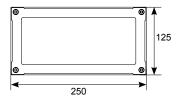






- Modern low level surface brick light/wall light
- General illumination ideal for pathway/walkway illumination
- Die-cast aluminium housing graphite powder coated anodized finish
- Tempered frosted glass
- LED lifespan L70 30,000 hours
- Non-dimmable





LED Information

Total (Watts)	7W
Lumens Delivered	d 302lm
Lm/W	43lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 50°C









Wall Mounted



Low Level Mounted

Code	Lamp	Description
AVOLEDSWL	LED	7W - Cool White





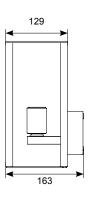


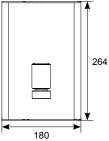






- Ultra modern exterior wall light
- Die-cast frame with tempered glass enclosure
- Textured powder coated anthracite finish
- Ideal for use with LED Filament lamps















Code	Lamp	Description
ACAL/E27	E27	40W - Sandy Anthracite





304

Supplied c/w Integral Driver









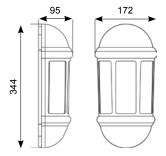
ALHLLED/BL



ALHLLED/PIR/W

Code Lamp Description Standard ALHLLED/BL LED 8W - Warm White - Black ALHLLED/WH LED 8W - Warm White - White **Photocell** ALHLLED/PC/BL LED 8W Photocell - Warm White - Black ALHLLED/PC/WH 8W Photocell - Warm White - White LED PIR ALHLLED/PIR/BL LED 8W PIR - Warm White - Black ALHLLED/PIR/WH LED 8W PIR - Warm White - White

- 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





Total (Watts)	8W
Lumens Delivered	d 400lm
Lm/W	53lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C



Latina Polycarbonate Half Lantern Supplied Less Lamp

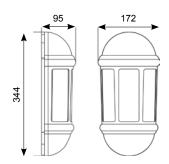








- Contemporary IP65 half lantern and resistant to corrosion
- Textured polycarbonate finish and tinted lens
- PIR option for convenience and security. Incorporates manual override option
- Colour matching PIR lens cover ensures discreet appearance









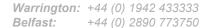


ALHL/BL



ALHL/PIR/WH

Code	Lamp	Description
ALHL/BL	E27	42W - Black
ALHL/WH	E27	42W - White
ALHL/PC/BL	E27	42W Photocell - Black
ALHL/PC/WH	E27	42W Photocell - White
ALHL/PIR/BL	E27	42W PIR - Black
ALHL/PIR/WH	E27	42W PIR - White
	ALHL/BL ALHL/WH ALHL/PC/BL ALHL/PC/WH ALHL/PIR/BL	ALHL/BL E27 ALHL/WH E27 ALHL/PC/BL E27 ALHL/PC/WH E27















ALWLLED/PIR/BL



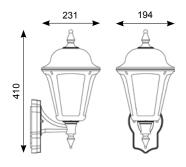


ALWL/CBW

	Code	Lamp	Description
Standard	ALWLLED/BL	LED	8W - Warm White - Black
	ALWLLED/WH	LED	8W - Warm White - White
PIR	ALWLLED/PIR/BL	LED	8W PIR - Warm White - Black
	ALWLLED/PIR/WH	LED	8W PIR - Warm White - White
Accessories	ALWL/CBB	Wall Lante	rn Corner Bracket Black

Wall Lantern Corner Bracket White

- 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





5 seconds to 5 minutes 3 LUX - Photocell Off

LED Information

Total (Watts)	8W
Lumens Delivered	d 546lm
Lm/W	68lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C



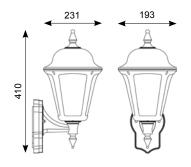




ALWL/CBW

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























ALWL/CBW

	Code	Lamp	Description
Standard	ALWL/BL	E27	42W - Black
	ALWL/WH	E27	42W - White
PIR	ALWL/PIR/BL	E27	42W PIR - Black
	ALWL/PIR/WH	E27	42W PIR - White
Accessories	ALWL/CBB	Wall Lantern Corner Bracket Black	
	ALWL/CBW	Wall Lantern Corner Bracket White	

Warrington: +44 (0) 1942 433333

Belfast: +44 (0) 2890 773750















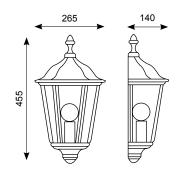
 Clear polycarbonate diffuser for E27 versions

 Opal polycarbonate diffuser for PIR versions



ARE27/HL/BL

Code	Lamp	Description
ARE27/HL/BL	E27	100W - Black
ARE27/PIR/HL/BL	E27	100W - PIR - Black









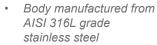
Lampara Inox Stainless Steel Supplied Less Lamp



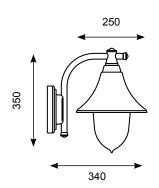




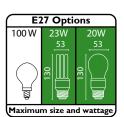




Transparent polycarbonate diffuser















Code	Lamp	Description
ALE27/WL/SS	E27	100W



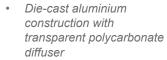


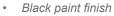




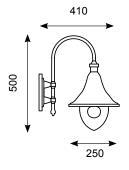






















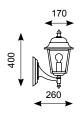








- Die-cast aluminium four sided lantern
- Black paint finish
- Smoked glass diffuser
- Full size post lanterns incorporate hinged door for easy wiring access



ANE27/WLBA/BL



ANE27/WLTA/B ANE27/PIL/BL











Belfast:



ANE27/WLBA/BL







Urano Inox Stainless Steel

Supplied Less Lamp

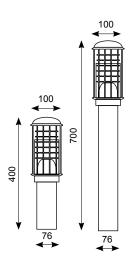








- High Grade AISI 316L stainless steel bollard
- Slim profile provides additional suitability for patio lighting
- Suitable for commercial and domestic applications



















Code	Lamp	Description
AUE27040/SS	E27	60W 400mm
AUE27070/SS	E27	60W 700mm





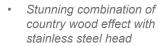








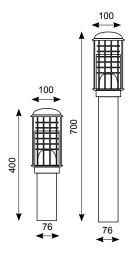




- Slim profile provides additional suitability for patio lighting
- Decorative AISI 316L stainless steel head
- Suitable for commercial and domestic applications









AUE27070/WE





Code	Lamp	Description
AUE27040/WE	E27	60W 400mm
AUE27070/WE	E27	60W 700mm













Pavia Solar LED

Supplied c/w Integral Driver





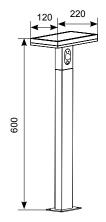






- PIR motion sensor as standard
- Automatic day/night mode switching
- 2 operation modes: 1) 15% output after sunset, motion detected 100% output, no motion 15% for 20 hours
 - 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan
 L70 36,000 hours







LED Information

Lumens Delivere	d 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



Supplied c/w Integral Driver









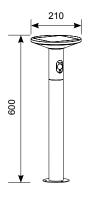


	Code	Lamp	Description
	ATASLEDB/60	LED	Cool White
Accessories	ASBP/17	7.4V 1500mAh Replacement Li-ION Battery	

- 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









Lumens Delivere	d 210lm
CRI	Ra 80
CCT	4000K
Operating Temp	-20°C to 45°C











Senza LED Supplied c/w Integral Driver

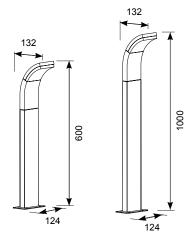






- Contemporary die-cast aluminium LED bollard
- Standard and PIR options
- Graphite textured powder coat paint finish
- Flange mounted base for surface fixing
- LED lifespan L70 36,000 hours
- Non-dimmable







6 to 9 metres 5 seconds to 8 minutes 10 to 2000 LUX

LED Information

Total (Watts)	6.5W
Lumens Delivere	d 366lm
Lm/W	52lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C













ASELEDB/10)(
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	Code	Lamp	Description
Standard	ASELEDB/060	LED	6.5W - Cool White 600mm
	ASELEDB/100	LED	6.5W - Cool White 1000mm
PIR	ASELEDB/060/PIR	LED	6.5W - PIR - Cool White 600mm
	ASELEDB/100/PIR	LED	6.5W - PIR - Cool White 1000mm



Supplied c/w Integral Driver





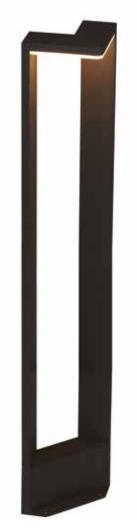




Light distribution from head of bollard





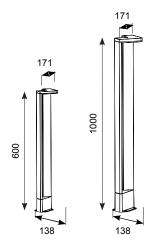


AARLEDB/100

Code	Lamp	Description
AARLEDB/060	LED	11W - Cool White 600mm
AARLEDB/100	LED	11W - Cool White 1000mm

- Ultra modern LED bollard
- Graphite textured powder coated paint finish
- Flange mounted base for surface mounting
- LED lifespan L70 36,000 hours
- Non-dimmable





ZZZ miormatic	
Total (Watts)	11W
Lumens Deliver	red 643lm
Lm/W	58lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C











Gila LED Supplied c/w Integral Driver

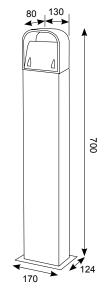






- Modern bollard with die-cast aluminium body
- Innovative bi-directional light distribution
- Equivalent performance to 26W PLC
- Powder coated anodized graphite paint finish for enhanced durability
- Flange mounted base for surface fixing
- IP66 loop-in, loop-out connection joint for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable





LED Information

Total (Watts)	11W
Lumens Deliver	red 202lm
Lm/W	18lm
CRI	Ra 90
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C









Code	Lamp	Description
AGLEDB/700	LED	11W - Cool White 700mm

Warrington: +44 (0) 1942 433333 Belfast:

+44 (0) 2890 773750







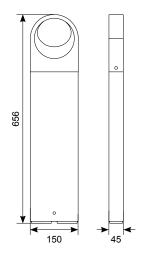




Code	Lamp	Description
ABRLEDB/650/CW	LED	7.7W - Cool White 650mm
ABRLEDB/650/WW	LED	7.7W - Warm White 650mm

- 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





Total (Watts)	7.7W
Lumens Delivere	d
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









Supplied c/w Integral Driver









Light distribution from the rear of the bollard



Light distribution from the front of the bollard





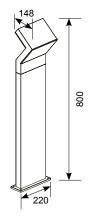


ADULEDB/080/PIR

Code	Lamp	Description
ADULEDB/080	LED	17W - Cool White 800mm
ADULEDB/080/PIR	LED	17W - PIR - Cool White 800mm

- 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







max 12 metres 8 seconds to 8 minutes 5 to 200 LUX

Total (Watts)	17W
Lumens Delivered	d 1536lm
Lm/W	90lm
CRI	Ra 80
CCT	4000K
Input	100V-240V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C













Taurus LED Supplied c/w Integral Driver







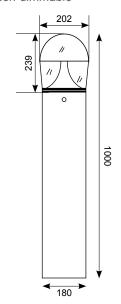
- with polycarbonate lens Comparable performance
- to 70W HQI

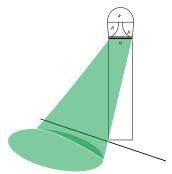
aluminium bollard with a textured graphite finish Die-cast aluminium head

- Integral emergency option
- Supplied c/w root mounting kit

Robust die-cast

- LED lifespan L70 50,000 hours
- Non-dimmable





Emergency Operation

LED Information

Total (Watts)	26W
Lumens Deliver	red 1379lm
Lm/W	53lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 50°C









Code	Lamp	Description
ATALEDE	3/1000 LED	26W - Cool White 1000mm

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



Leo CCT LED Polycarbonate Bollard

Supplied c/w Integral Driver

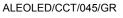














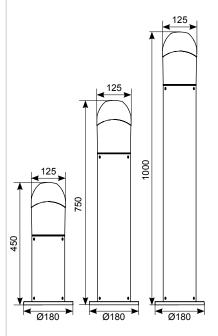
ALEOLED/CCT/075/GR



ALEOLED/CCT/100/GR

Code Lamp 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

- 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



Total (Watts)		8W
		13W
		13W
Lumens Delivered	4000K	3000K
8W	592lm	533lm
13W	922lm	880lm
13W	922lm	880lm
Lm/W		
8W	74lm	67lm
13W	77Im	73Im
13W	77Im	73Im
CRI		Ra 80
CCT		3000K
		4000K
Input		230V
Hertz	5	0/60Hz
Operating Temp	-10°C	to 40°C
Operating Temp	-10°C	to 40°C









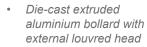
Supplied Less Lamp





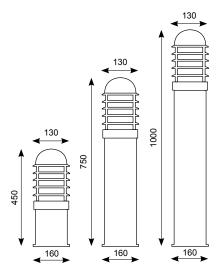






- Textured black powder coat finish
- Suitable for commercial and domestic applications























AME27045/BL









AME27100/BL

Code	Lamp	Description
AME27045/BL	E27	100W 450mm
AME27075/BL	E27	100W 750mm
AME27100/BL	E27	100W 1000mm

Accessories ARMK3 Root Mounting Kit



Monza Inox Stainless Steel

Supplied Less Lamp



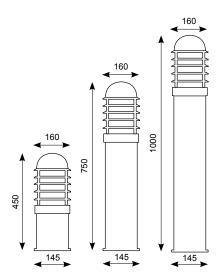


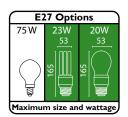




- High Grade AISI 316L stainless steel bollard
- External louvred head and opal polycarbonate diffuser
- Suitable for commercial and domestic applications

















Code	Lamp	Description
AME27045/SS	E27	75W 450mm
AME27075/SS	E27	75W 750mm
AME27100/SS	E27	75W 1000mm

Accessories ARMK3 Root Mounting Kit

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









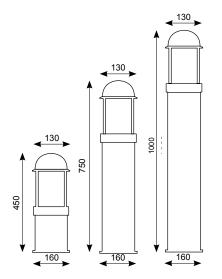






- Textured black powder coat finish
- Suitable for commercial and domestic applications





Code	Lamp	Description
AAE27045/BL	E27	75W 450mm
AAE27075/BL	E27	75W 750mm
AAE27100/BL	E27	75W 1000mm











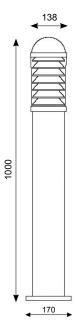
AAE27045/BL

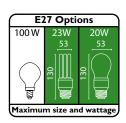






- Die-cast aluminium bollard with polycarbonate diffuser
- Internal stainless steel louvre
- Detachable head for easy access to lamp housing
- Suitable for surface mounting
- Supplied with root mounting













Code	Lamp	Description	
ALIB/100E27	E27	100W 1000mm	

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



Orno LED Portable Lantern

Supplied c/w DC Adaptor









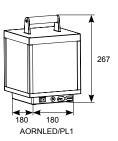
AORNLED/PL1 White LED

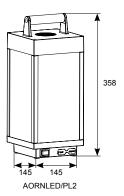


AORNLED/PL2

Code	Lamp	Description
AORNLED/PI	.1 LED	5W - Small/Cool White
AORNLED/PI	.2 LED	6W - Large/Cool White

- Modern portable lantern range suitable for domestic applications
- Anodised powder coated die-cast frame contruction, 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





Total (Watts)	5W
Lumens Deliver	red 353lm
Lm/W	71lm
CRI	Ra 80
CCT	4000K
Input	3.7VDC
Operating Temp	-20°C to 45°C











Rondo HP AC LED Surface/Spike Light No Driver Required



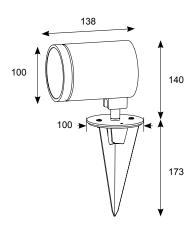








- High performance LED feature light
- Suitable for surface or spike mounting (spike accessory included)
- No driver required
- 60° beam angle
- Die-cast aluminium construction with textured graphite paint finish
- Pre-wired with 2 metres of H07RN-F cable
- LED lifespan L70 30,000 hours
- Non-dimmable



LED Information

Total (Watts)	20W
Lumens Deliver	red 1200lm
Lm/W	60lm
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

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Meteor LED Submersible

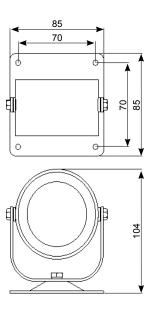
Supplied Less Driver







- 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 Deliver	red 547lm
Lm/W	91lm
CRI	Ra 75
CCT	4000K
Input	350mA
Operating Temp	-20°C to 40°C







	Code	Lamp	Description
	AMETLED	LED	6W - Cool White
Accessories	AD9W/350	9W 350mA LED Driver	
	ADK20W/350	20W 350mA LED Driver	
	AMCD25W	0-15W Multicurrent Driver	
	AMCD50W	0-20W Multi	current Driver

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Spike Fixing

Code	Lamp	Description
AFGS/GU10LED	LED	5W LED GU10

- Dual purpose garden spotlight supplied with wall mounting bracket and spike
- Manufactured from 100% recyclable materials
- Pre-wired with 2 metres of rubber insulated cable
- Suitable for GU10 LED lamps only as detailed















Subra LED Inground Uplight Supplied Less Driver

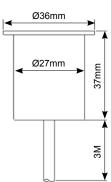






- Small recessed LED marker ground light for a variety of internal and external applications
- 316L stainless steel bezel and housing
- Pre-wired with 2 metres of rubber insulated cable
- Submersible to a depth of up to 2 metres
- LED lifespan L70 56,000 hours lifetime









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







ASUWOLED/WW

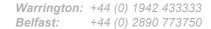
Code	Lamp	Description
ASUWOLED/CW	LED	1W - Cool White
ASUWOLED/WW	LED	1W - Warm White

Accessories	ADK15W/24V	15W 24V LED Driver
	ADK60W/24V	60W 24V LED Driver
	AMCD25W	10 - 20W Multicurrent LED Driver













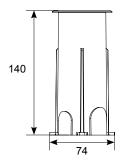


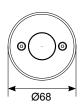




Code	Lamp	Description
ATURWOLED/70	LED	3W - Cool White

- 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





Total (Watts)	3W
Lumens Deliver	red 135lm
Lm/W	45lm
Beam Angle	23°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C













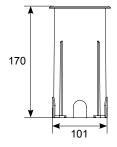


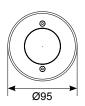




Code Lamp Description ATURWOLED/95 LED 4W - Cool White

- 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





Total (Watts)	4W
Lumens Deliver	red 390lm
Lm/W	97lm
Beam Angle	21°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





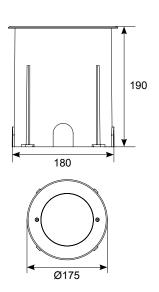








- High performance LED inground uplight
- Exceeds performance of 70W CDM-T
- Static load test to 2000kg
- Supplied c/w installation housing for additional protection and ease of installation
- Die-cast aluminium construction with 316L stainless steel top frame
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 50,000 hours





Total (Watts)	8W
Lumens Deliver	red 884lm
Lm/W	110lm
Beam Angle	18°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C







Code	Lamp	Description
ATURWOLED/175	LED	8W - Cool White

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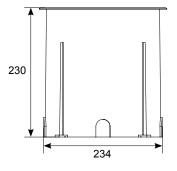


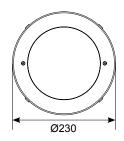


- inground uplight
- Exceeds performance of 70W CDM-T

High performance

- 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





Total (Watts)	19W
Lumens Deliver	red 2214lm
Lm/W	116lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C









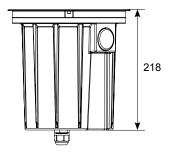
Fresno LED Adjustable Inground Uplight Supplied c/w Integral Driver

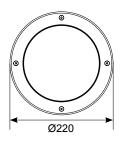






- High performance LED adjustable inground uplight
- Exceeds performance of 35W CDM-T
- 304L stainless steel bezel and powder coated aluminium housing
- Supplied c/w installation housing for additional protection and ease of installation
- Integral driver and pre-wired with 2 metres of rubber insulated cable
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 50,000 hours
- Non-dimmable





LED Information

Total (Watts)	19W
Lumens Deliver	red 998lm
Lm/W	53lm
Beam Angle	11°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C









Code	Lamp	Description
AFRWOLED/220	LED	19W - Warm White

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GU10/MR16 Inground Uplight

Supplied Less Lamp





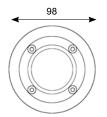


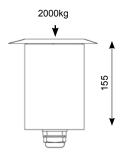




Code	Lamp	Description
AWO50	GU10/MR16	50W

- 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.











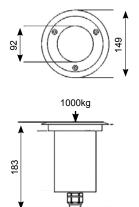
GU10 Adjustable Inground Uplight Supplied Less Lamp







- 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





135

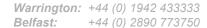
Caution: surface glass temperature will get very hot under normal halogen operation. It is recommended to use GU10 LED lamps for cooler operation.







Code	Lamp	Description
AWO/GU10	GU10	50W









Floodlighting

Project Pennington Wharf - Leigh, UK



Floodlighting



Colossus HO LED



Mira 2 LED



Polaris AC LED



Vaste LED



Mira LED



Zion LED Black



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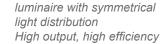


Colossus HO LED Floodlight Supplied c/w Remote LED Driver in a IP65 Enclosure



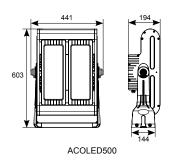


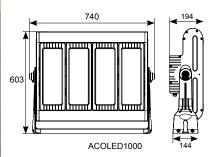




Die-cast aluminium

- 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





LED Information

Total (Watts)	500W
	1000W
Lumens Delivered	1
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



















Powered by

MEAN WELL



Remote IP65 Enclosure

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



360



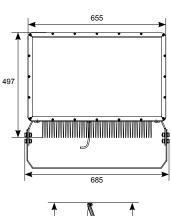


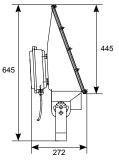


Code	Lamp	Description	Windage
AM2LED/ASY/500	LED	500W - Daylight	0.30
AM2LED/ASY/800	LED	789W - Daylight	0.30

Options	/PC	Electronic Photocell

- 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





LLD IIIIOIIIIation	
Total (Watts)	500W
	789W
Lumens Delivered	
500W	72862lm
789W	109264lm
Lm/W 500W	146lm
Lm/W 789W	138lm
CRI	Ra 70
CCT	5000K
Input	100/270V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



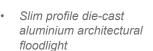




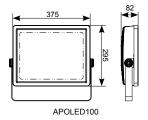
Polaris AC LED Floodlight No Driver Required

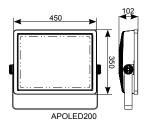






- No driver required
- 100W LED exceeds performance of 150W HQI
- 200W LED comparable performance of 250W HQI
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable







Total (Watts)	100W
	200W
Lumens Delivered	ſ
100W	8179lm
200W	15847lm
Lm/W 100W	80lm
Lm/W 200W	78lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C





















Code	Lamp	Description	Windage	
APOLED100	LED	100W - Cool White	0.12	
APOLED200	LED	200W - Cool White	0.16	

Option	/PC	Electronic Photocell
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362

Vaste LED Floodlight Supplied c/w Integral Driver









AVFLED10



AVFLED10/PIR

5 Seconds - 8 Minutes 10 - 2000 Lux



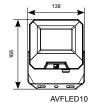
AVFLED30



	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

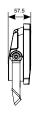
Option	/PC	Electronic Photocell (50W only)
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- Modern architectural slim die-cast LED floodlight
- 10W ideal for halogen replacement
- 30W comparable light output to 35W HQI
- 50W comparable light output to 70W HQI-TS
- Die-Cast construction and heat sink design providing optimised thermal characteristsics 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













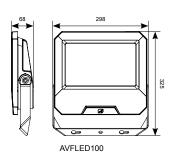
Total (Watts)	10W
	30W
	50W
Lumens Delivered	
10W	938lm
30W	2899lm
50W	4822lm
Lm/W 10W	94lm
Lm/W 30W	97lm
Lm/W 50W	96lm
CRI	Ra 80
CCT	4000K
Input	220-240V
Hertz	50/60Hz
Operating Temp	-20°C to 25°C

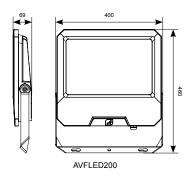






- Modern architectural slim die-cast LED floodlight
- 100W comparable performance of 150W HQI-TS
- 200W exceeds performance of 250W HQI-T
- Die-Cast construction and heat sink design providing optimised thermal characteristsics for optimum LED life and performance
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable





LED Information

Total (Watts)	100W
	200W
Lumens Delivered	1
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









Vaste LED Floodlight Supplied c/w Integral Driver











AVFLED100



Code	Lamp	Description	Windage	
AVFLED100	LED	100W - Cool White	0.07	
AVFLED200	LED	200W - Cool White	0.1	

Note: 100W and 200W versions are not suitable for interior use

Options	/PC	Electronic Photocell
Options	/PC	

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5 Lux - PC Off

AMLED10/PIR

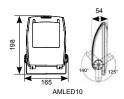


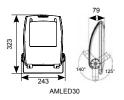


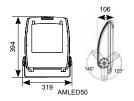
	Code	Lamp	Description	Windage
Standard	AMLED10	LED	10W - Cool White	0.03
PIR	AMLED10/PIR	LED	10W c/w PIR - Cool White	0.03
Standard	AMLED30	LED	30W - Cool White	0.08
PIR	AMLED30/PIR	LED	30W c/w PIR - Cool White	0.08
Standard	AMLED50	LED	50W - Cool White	0.13

Option	/PC	Electronic Photocell (50W only)

- Architectural slim die-cast LED floodlight
- 10W LED ideal for halogen replacement
- 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







Total (Watts)	10W
	30W
	50W
Lumens Delivered	
10W	718lm
30W	2816lm
50W	4805lm
Lm/W 10W	72lm
Lm/W 30W	91 <i>lm</i>
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

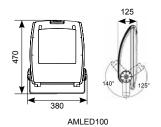


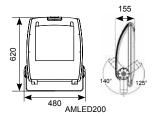






- Architectural slim die-cast LED floodlight
- 100W LED exceeds performance of 150W HQI
- 200W LED comparable performance to 400W HQI
- Optically textured glass for enhanced light output
- Heat sink design provides optimum LED life
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 30,000 hours
- Non-dimmable





LED Information

Total (Watts)	100W
	200W
Lumens Delivered	1
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	
AMLED100	LED	100W - Cool White	0.18	
AMLED200	LED	200W - Cool White	0.30	

Note: 100W and 200W versions are not suitable for interior use

Options	/PC	Electronic Photocell
Options	/PC	

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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



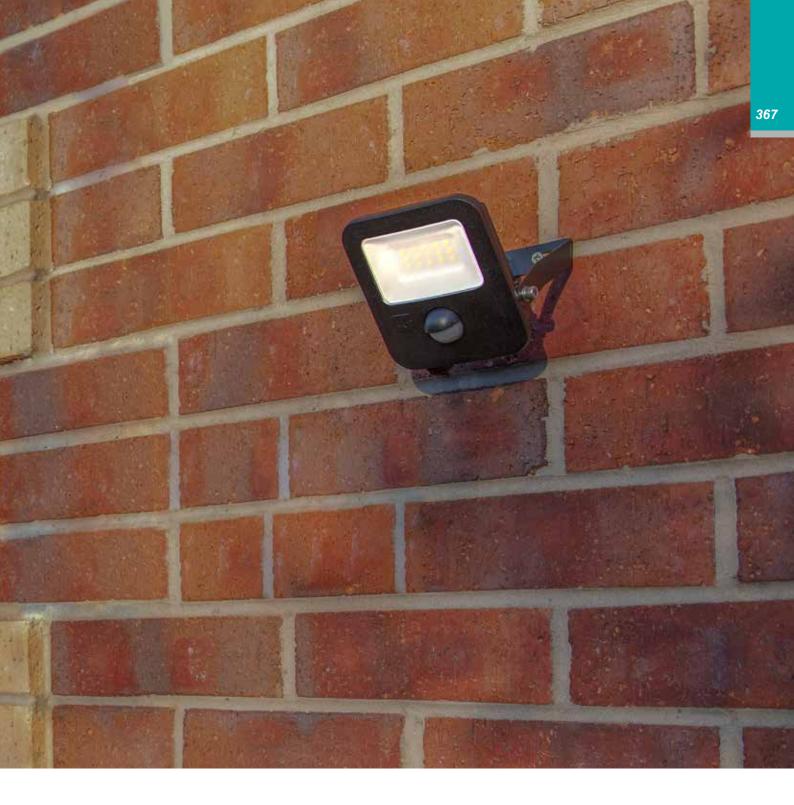
Die-cast aluminium heatsink

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









AZILED10



AZILED20



10 Seconds - 8 Minutes 3 Lux - PC Off Detection Angle - 120°



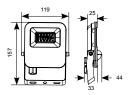
AZILED10/PIR



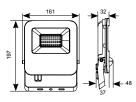
AZILED20/PIR

	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	e 0.02
Standard	AZILED20/WW	LED	20W - Warm White	0.04
PIR	AZILED20/WW/PIR	LED	20W c/w PIR - Warm Whit	e 0.04

- 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 installation without 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

on	
Cool White	Warm White
	10W
	20W
red	
843lm	771lm
1709lm	1575lm
84lm	77lm
90lm	83lm
	Ra 70
	4000K
	3000K
	230V
	50Hz
p	-10°C to 40°C
	red 843lm 1709lm 84lm 90lm





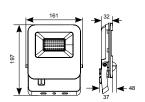


Zion LED Polycarbonate Floodlight Supplied c/w Integral Driver

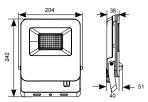
AZILED30

AZILED50

- 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



AZILED30 - AZILED30/PIR



AZILED50 - AZILED50/PIR

millionnaci	···	
	Cool White	Warm White
Total (Watts)		30W
		50W
Lumens Delive	red	
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 Tem	р	-10°C to 40°C

















5 - 12 Metres 10 Seconds - 8 Minutes 3 Lux - PC Off Detection Angle - 120°









AZILED50/PIR

	Code	Lamp	Description	Windage
Standard	AZILED30	LED	30W - Cool White	0.04
PIR	AZILED30/PIR	LED	30W c/w PIR - Cool White	0.04
Standard	AZILED50	LED	50W - Cool White	0.05
PIR	AZILED50/PIR	LED	50W c/w PIR - Cool White	0.05
Standard	AZILED30/WW	LED	30W - Warm White	0.04
PIR	AZILED30/WW/PIR	LED	30W c/w PIR - Warm White	e 0.04
Standard	AZILED50/WW	LED	50W - Warm White	0.05
PIR	AZILED50/WW/PIR	LED	50W c/w PIR - Warm White	e 0.05











AWZILED10



AWZILED20



10 Seconds - 8 Minutes 3 Lux - PC Off Detection Angle - 120°



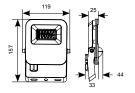
AWZILED10/PIR



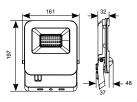
AWZILED20/PIR

	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	2 0.02
Standard	AWZILED20/WW	LED	20W - Warm White	0.04
PIR	AWZILED20/WW/PIR	LED	20W c/w PIR - Warm White	2 0.04

- 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

LLD IIIIOIIIIatioii				
	Cool White	Warm White		
Total (Watts)		10W		
		20W		
Lumens Delive	red			
10W	843Im	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 Tem	p	-10°C to 40°C		









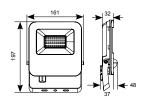
Zion LED White Polycarbonate Floodlight Supplied c/w Integral Driver

5 - 12 Metres

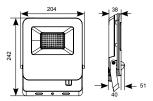
10 Seconds - 8 Minutes 3 Lux - PC Off

Detection Angle - 120°

- 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



AWZILED30 - AWZILED30/PIR



AWZILED50 - AWZILED50/PIR

LED Information

LLD IIIIOIIIIauoii					
	Cool White	Warm White			
Total (Watts)		30W			
		50W			
Lumens Delive	red				
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 Tem	р	-10°C to 40°C			











AWZILED30

AWZILED50







AWZILED50/PIR

	Code	Lamp	Description	Windage
Standard	AWZILED30	LED	30W - Cool White	0.04
PIR	AWZILED30/PIR	LED	30W c/w PIR - Cool White	9 0.04
Standard	AWZILED50	LED	50W - Cool White	0.05
PIR	AWZILED50/PIR	LED	50W c/w PIR - Cool White	9 0.05
Standard	AWZILED30/WW	LED	30W - Warm White	0.04
PIR	AWZILED30/WW/PIR	LED	30W c/w PIR - Warm White	9 0.04
Standard	AWZILED50/WW	LED	50W - Warm White	0.05
PIR	AWZILED50/WW/PIR	LED	50W c/w PIR - Warm White	9 0.05

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Calinor LED Polycarbonate Floodlight

Supplied c/w Integral Driver









ACALED10





ACALED10/PIR



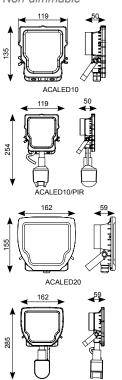
ACALED20



ACALED20/PIR

	Code	Lamp	Description	Windage
Standard	ACALED10	LED	10W - Cool White	0.02
PIR	ACALED10/PIR	LED	10W c/w PIR - Cool White	0.04
Standard	ACALED20	LED	20W - Cool White	0.03
PIR	ACALED20/PIR	LED	20W c/w PIR - Cool White	0.05
Standard	ACALED10/WW	LED	10W - Warm White	0.02
PIR	ACALED10/WW/PIR	LED	10W c/w PIR - Warm White	9 0.04
Standard	ACALED20/WW	LED	20W - Warm White	0.03
PIR	ACALED20/WW/PIR	LED	20W c/w PIR - Warm White	9 0.05

- 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



LED Information					
	Cool White	Warm White			
Total (Watts)		10W			
		20W			
Lumens Delive	red				
10W	942lm	892lm			
20W	1924lm	1807lm			
Lm/W 10W	94lm	89lm			
Lm/W 20W	96lm	90lm			
CRI		Ra 80			
CCT		4000K			
		3000K			
Input		230V			
Hertz		50Hz			
Operating Tem	р	-15°C to 40°C			

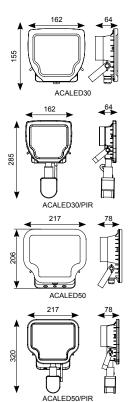






Calinor LED Polycarbonate Floodlight Supplied c/w Integral Driver

- 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



	Cool White	Warm White
Total (Watts)		30W
		50W
Lumens Delive	red	
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 Tem	р	-15°C to 40°C











10 Seconds - 8 Minutes 3 Lux - PC Off Detection Angle - 120°



ACALED30







ACALED50



ACALED50/PIR

	Code	Lamp	Description	Windage
Standard	ACALED30	LED	30W - Cool White	0.03
PIR	ACALED30/PIR	LED	30W c/w PIR - Cool White	9 0.05
Standard	ACALED50	LED	50W - Cool White	0.05
PIR	ACALED50/PIR	LED	50W c/w PIR - Cool White	0.07
Standard	ACALED30/WW	LED	30W - Warm White	0.03
PIR	ACALED30/WW/PIR	LED	30W c/w PIR - Warm White	9 0.05
Standard	ACALED50/WW	LED	50W - Warm White	0.05
PIR	ACALED50/WW/PIR	LED	50W c/w PIR - Warm White	9 0.07



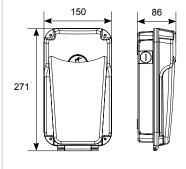








- Robust compact wall mounted luminaire for general accent illumination
- All polycarbonate vandal resistant body with fresnel
- Tamper-proof allen key screws supplied as standard
- Multiple conduit entry and BESA box fixing points
- Photocell and sensor options
- LED lifespan L70 56,000 hours



Total (Watts)	15W
Lumens Delivered	1053lm
Lm/W	70lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°Cto40°C







Code	Lamp	Description
AMLV	WPLED LED	15W - Cool White

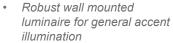
Options	/PC	Electronic Photocell
	/MWS	Integral Microwave Sensor

Lynx LED Wallpack Supplied c/w Integral Driver

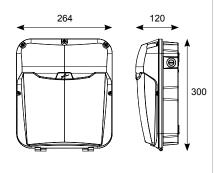








- Integral emergency option provides downward illumination with a beam angle of 60°
- Die-cast aluminium body with vandal resistant polycarbonate Fresnel lens diffuser
- Tamper-proof allen key screws supplied as standard
- Multiple conduit entry and BESA box fixing points
- Photocell and sensor options
- LED lifespan L70 56,000 hours

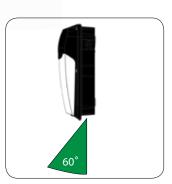












Emergency Standby

Emergency Operation

Emergency Mode Beam Angle

LED Information

Total (Watts)	29W
Lumens Delivered	1798lm
Lm/W	60lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C









	Code	Lamp	Description	
	ALWPLED	LED	29W - Cool White	
Options	/PC	Electroni	Electronic Photocell	
	/M3	Emerger	ncy	
	/DD	Digital Di	Digital Dimming (DD1/DD2/DD3/DD4)	
	/MWS	Integral N	Microwave Sensor	

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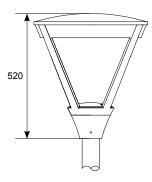


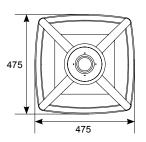


Code	Lamp	Description	Windage
ASULED/1/CW	LED	42W - Cool White	0.08
ASULED/2/CW	LED	63W - Cool White	0.08
ASULED/1/WW	LED	42W - Warm White	0.08
ASULED/2/WW	LED	63W - Warm White	0.08

Options	/PC	Electronic Photocell	
---------	-----	----------------------	--

- 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



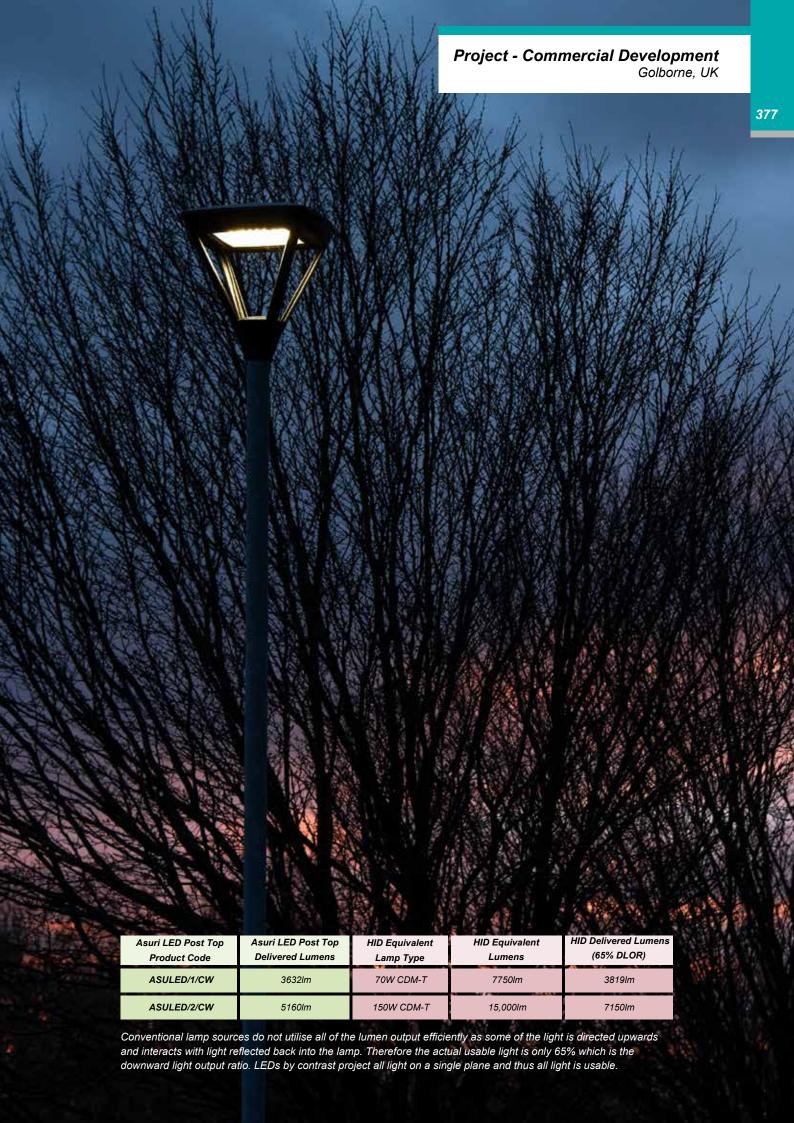


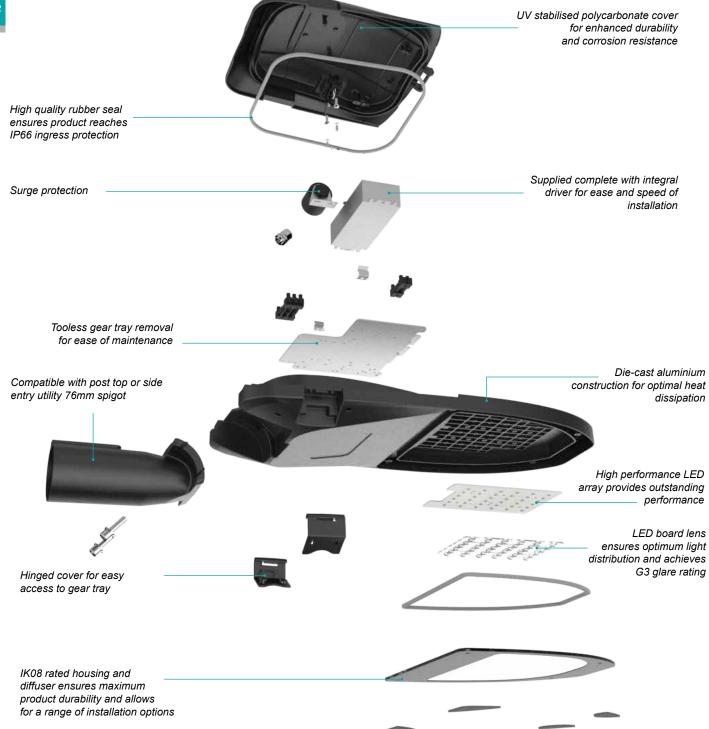
Total (Watt)	42W	63W
Lumens Delivered		
Cool White	3632lm	5160lm
Warm White	3060lm	4350lm
Lm/W		
Cool White	86lm	82Im
Warm White	77Im	73Im
CRI		Ra 70
CCT		4000K
		3000K
Input	1	00/240V
Hertz		50Hz
Operating Temp	-40°0	C to 55°C











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

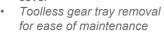
Conventional lamp sources do not utilise all of the lumen output efficiently as some of the light is directed upwards and interacts with light reflected back into the lamp. Therefore the actual usable light is only 65% which is the downward light output ratio. LEDs by contrast project all light on a single plane and thus all light is usable.

Onix LED Street Light Supplied c/w Integral Driver







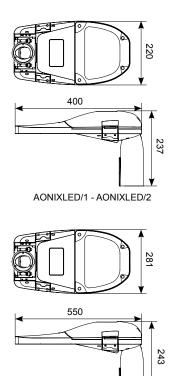


construction for optimal heat

dissipation and performance UV stabilized polycarbonate

Die-cast aluminium

- Built in anti-tamper isolation
- 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



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	1	00/240V
Hertz		50Hz
Operating Temp	-20°0	C to 50°C

AONIXLED/3 - AONIXLED/4





Code	Lamp	Description	Windage	
AONIXLED/1	LED	20W - Cool White	0.04	
AONIXLED/2	LED	40W - Cool White	0.04	
AONIXLED/3	LED	60W - Cool White	0.07	
AONIXLED/4	LED	80W - Cool White	0.07	

Options /PC Electronic Photocell

Accessories AONIXLED/SBA 48-60mm Spigot Bracket

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





(VIXIL) 1 0

Industrial

Project Skynet - Wilmslow, UK



Z LED High Bay UFO p387



Deco LED High Bay



Z LED High Bay UFO



ForceLINE LED



Opti-Lux LED Linear



Pre-Wired T8 Non-Corrosive for LED Tubes

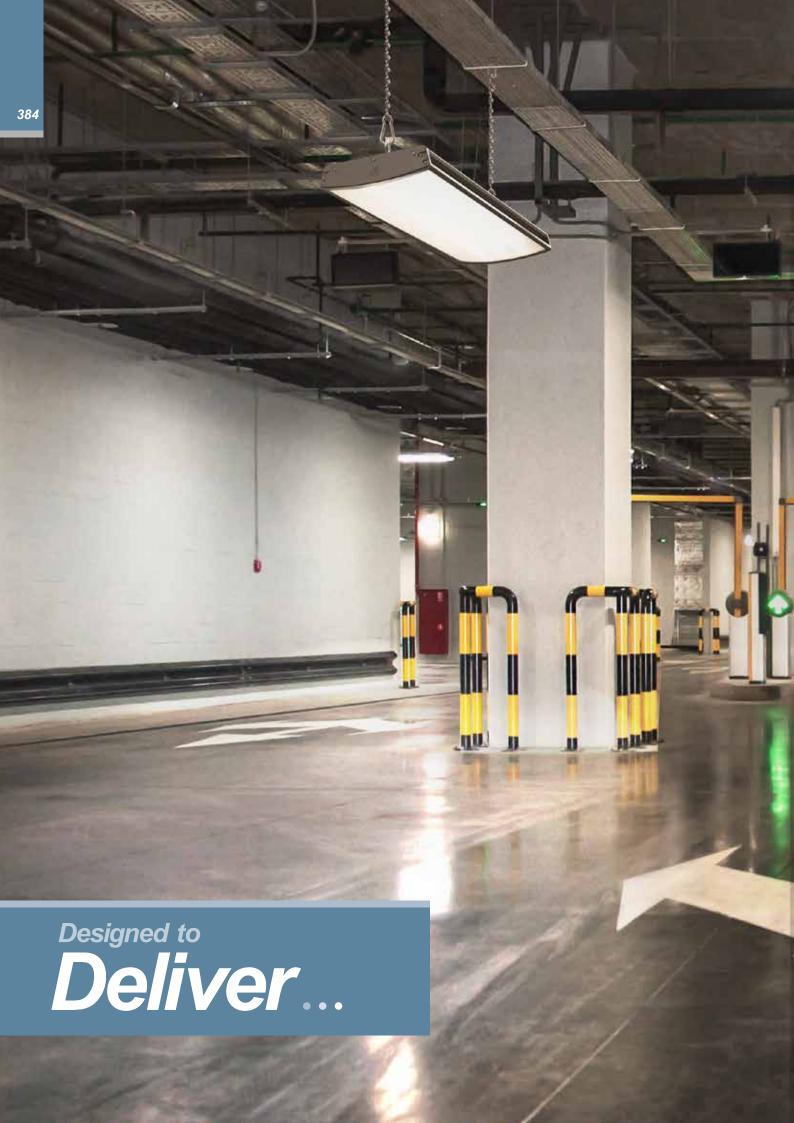


Stormloc LED Non-Corrosive





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



Deco High Bay LED Supplied c/w Integral Driver



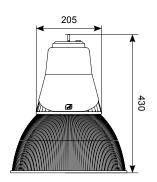


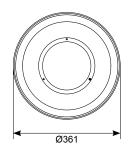


- Decorative modern LED pendant supplied with either polycarbonate refractor or aluminium
- Suitable for industrial. commercial and retail applications

reflector

- 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 Delivere	d	
/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 Tem	p -20°0	C to 25°C









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

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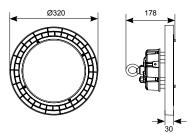
LED



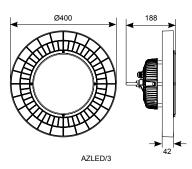
Z LED UFO Product Code	Z LED UFO (4000K) Delivered Lumens	HID Equivalent Lamp Type	HID Equivalent Lumens	HID Delivered Lumens (65% DLOR)
AZLED/1	11858lm	150W HQI-E	13,300lm	8645lm
AZLED/2	18443lm	250W HQI-E	23,800lm	15470lm
AZLED/3	23965lm	400W HQI-E	41,000lm	26650lm

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
- Pre-wired with 3m of H07RN-F cable for ease and speed of installation
- Alternative installation options by means of drop rods, jack chain / catenary wire
- 98W comparable to 150W HQI
- 151W comparable to 250W HQI
- 198W 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
- 1-10V dimmable as standard



AZLED/1 + AZLED/2



I ED Information

1	
98W	
151W	
198W	
4000K	6500K
11858lm	12593lm
18443lm	19064lm
23965lm	26409Im
121lm	130lm
122lm	127lm
121lm	129lm
	Ra 80
	4000K
	6500K
20	00V-240V
	50/60Hz
-40°	C to 40°C
	98W 151W 198W 4000K 11858Im 18443Im 23965Im 121Im 122Im 121Im









Z LED High Bay UFO Supplied c/w Integral Driver













AZLED/REF -Aluminium Reflector



AZLED/FB1 -Mounting Bracket Accessory

Code	e Lamp	Description	
AZLI	ED/1 LED	98W - Cool White	
AZLI	ED/2 LED	151W - Cool White	
AZLI	ED/3 LED	198W - Cool White	
AZLI	ED/1/DL LED	98W - Daylight	
AZLI	ED/2/DL LED	151W - Daylight	
AZLI	ED/3/DL LED	198W - Daylight	

Ontions	/3.50	F
Options	/M3	Emergency
	/MWS	Integral Microwave Sensor
Accessories	AZLED/REF	Aluminium Reflector
	AZLED/FB1	Mounting Bracket Accessory Z-LED LED Highbay

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

388

Supplied c/w Integral Driver



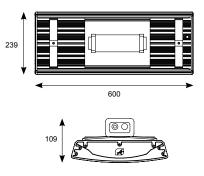








- Powerful and robust IP65 low/high bay, perfect for the demands of industrial applications
- Mounting brackets supplied as standard for droprod or chain/wire installation
- Comparable to 4 x 55W PL
- Die-cast aluminium construction provides enhanced thermal performance for longer LED lifespan
- Anti-glare polycarbonate diffuser maximises performance and light output
- LED lifespan L70 51,000 hours



	Code	Lamp	Description
	AFLLED2	LED	156W - Cool White
Options	/M3	Emergen	су
	/SM3	Self-Test	emergency
	/DM3	DALI eme	ergency
	/DD	Digital Di	mming (DD1/DD3/DD4)
	/MWS	Integral N	flicrowave Sensor

Total (Watts)	156W
Lumens Delivered	15474lm
Lm/W	99 <i>lm</i>
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

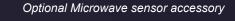








FORCE



Hytronik high frequency motion sensor

Hold time: 5secs - 30mins

LUX: 2 - 50 lux

Detection Range: 12m





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

Silcone gasket provides IP65 ingress protection

Anti glare polycarbonate diffuser maximises performance and light distribution











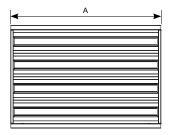


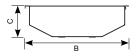
Code	Lamp	Description	Α	В	С	
AOLEDI	.55 LED	92W - Cool White	615	410	120	
AOLEDL	.80 LED	160W - Cool White	1455	410	120	
AOCON	TROLLER	Sensor Hand Contr	oller			
AOCOM	MISSION	On-site Commision	ing per da	y		

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 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 95,000 hours
- On site commissioning recommended for all installations incorporating sensors





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

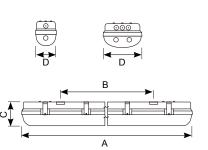
Non Corrosive supplied Less Control Gear and Lamp







- Mains Voltage Non Corrosive for Ansell T8 LED Tubes
- Fixture supplied with lockable stainless steel clips as standard





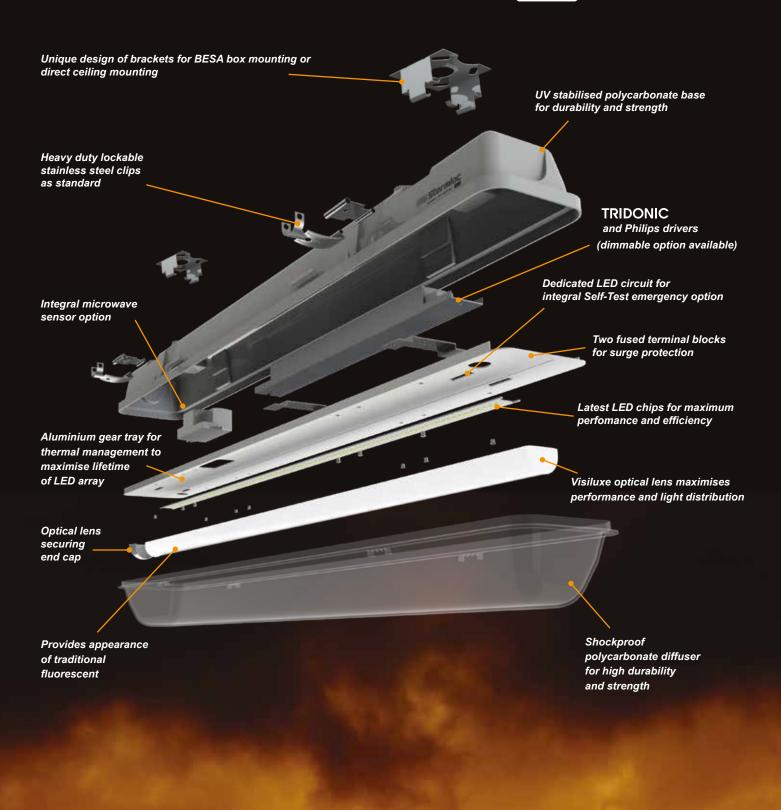
Code	Lamp	Description	Α	В	С	D	Clips
ADP2	LED	1 x 600mm for LED Tube	655	478	110	105	4
ADP4	LED	1 x 1200mm for LED Tube	1265	907	110	105	8
ADP5	LED	1 x 1500mm for LED Tube	1565	907	110	105	10
ADP2X2	LED	2 x 600mm for LED Tube	655	478	110	165	4
ADP2X4	LED	2 x 1200mm for LED Tube	1265	907	110	165	8
ADP2X5	LED	2 x 1500mm for LED Tube	1565	907	110	165	10



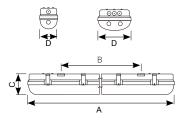
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SCORNOC TM SLED ELEMENT PROTECTION LED



- 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



LED Information

Total (Watts)	27W	57W
	37W	73W
	46W	86W
Lumens Delivered	2218lm	4474lm
	3143lm	6103lm
	3652lm	7109lm
Lm/W	82Im	79lm
	84lm	84lm
	79lm	83lm
CRI		Ra 80
CCT		4000K
Input		230V
Hertz		50Hz
Operating Temp	-20°	°C to 40°C









Stormloc IP65 LED Non-Corrosive

Supplied c/w Integral Driver











Code	Lamp	Description	Α	В	С	D	
ASLED4	LED	27W	1265	907	110	105	
ASLED5	LED	37W	1565	907	110	105	
ASLED6	LED	46W	1858	1170	110	105	
ASLED2X4	LED	57W	1265	907	110	165	
ASLED2X5	LED	73W	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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Code	Lamp	Description	Α	В	С	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

1865

1200

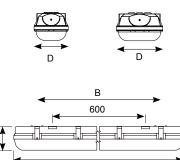
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115

Options	/M3	Self-Test emergency	
	/DM3	DALI emergency	
	/осто	OCTO Smart Control	
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)	
	/MWS	Integral Microwave Sensor	

78W

- Exceeds performance of standard T5 fluorescent
- Ultra slim IP65 LED NCF
- 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 L70 30,000 hours



LED Information

enlightening your ideas

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	







ATORPLED2X6 LED



Tornado IP65 LED Non-Corrosive

Supplied c/w Integral Driver











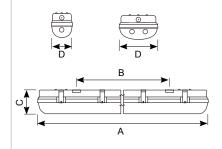






- LED Performance allows point-to-point replacement of existing fluorescent luminaires
- Light output exceeds performance of T8 and T5 fluorescent
- Unique luminaire fixing clip design allows option of mounting onto BESA box
- Lockable heavy-duty stainless steel clips supplied as standard for added safety and security
- Self-test emergency as standard
- LED lifespan L70 30,000 hours





Code	Lamp	Description	Α	В	С	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		
	/осто	OCTO Smart Control		
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)		
	/MWS	Integral Microwave Sensor		

20W	40W
28W	58W
35W	71W
2088lm	4425lm
3230lm	6353lm
3823lm	7320lm
104lm	110lm
115lm	110lm
109lm	103lm
	Ra 80
	4000K
	230V
	50Hz
-10°C	to 40°C
	28W 35W 2088lm 3230lm 3823lm 104lm 115lm 109lm



















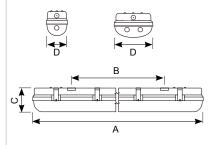




Code	Lamp	Description	Α	В	С	D
ATORLED2/110V	LED	10W	656	360	75	85
ATORLED4/110V	LED	20W	1266	860	75	85
ATORLED5/110V	LED	28W	1566	960	75	85
ATORLED2X2/110V	LED	20W	656	360	75	118
ATORLED2X4/110V	LED	40W	1266	860	75	118
ATORLED2X5/110V	LED	58W	1566	960	75	118

Options	/M3	Self-Test Emergency
	/MWS	Integral Microwave Sensor

- 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



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

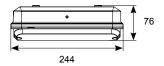






- All polycarbonate multipurpose bulkhead
- Exceeds performance of 9W PL
- Unique Visiluxe diffuser allows 90% light transmission from LED source for increased performance
- Suitable for all types of site lighting
- Instant light output and unlimited switching
- Red diffuser accessory available for applications that require warning indication luminaires
- LED lifespan L70 56,000 hours
- Non-dimmable





LED Information

Total (Watts)	5W
Lumens Deliver	red 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
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



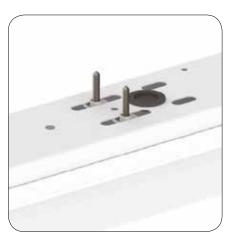
20mm Conduit Entry Facility

- 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



End Cap Fixing Option



Ceiling Mounting Continuous Fixings

 Unique ceiling mounting 'shunt' facility provides installer with flexibility and ease of adjustment when continuous mounting

Airbeam LED Batten

Supplied c/w Integral Driver





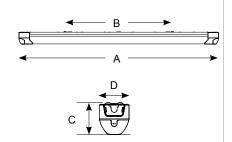








- Up to 56% energy saving compared to T8 fluorescent
- Steel body construction with powder coat finish
- Polycarbonate reeded diffuser and end caps
- Instant light output with unlimited switching
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor models
- LED lifespan L70 56,000 hours



Total (Watts)	24W 33W 42W	52W 61W 84W
Lumens Delivered	2778lm 3608lm 4189lm	5517lm 6407lm 7910lm
Lm/W	116lm 109lm 100lm	106lm 105lm 94lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	0°C to 25	°C



























End Cap Fixing Option

Ceiling Mounting Continuous Fixings

	Code	Lamp	Description	Α	В	С	D
Standard	ABLED4	LED	1 x 24W	1220	600	77	76
	ABLED5	LED	1 x 33W	1525	600	77	76
	ABLED6	LED	1 x 42W	1820	600	77	76
	ABLED2X4	LED	1 x 52W	1220	600	77	76
	ABLED2X5	LED	1 x 61W	1525	600	77	76
	ABLED2X6	LED	1 x 84W	1820	600	77	76

Options	/M3	Self-Test Emergency
	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4 - ABLED2X6 Not Available)
	/MWS	Integral Microwave Sensor











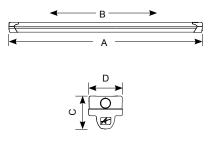




Code	Lamp	Description	Α	В	С	D
ATLLED4	LED	29W - Cool White	1220	600	65	65
ATLLED5	LED	35W - Cool White	1525	600	65	65
ATLLED6	LED	41W - Cool White	1745	600	65	65
ATLLED2X4	LED	49W - Cool White	1220	600	65	65
ATLLED2X5	LED	66W - Cool White	1525	600	65	65
ATLLED2X6	LED	83W - Cool White	1745	600	65	65

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

- 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



Total (Watts)	29W	49W
	35W	66W
	41W	83W
Lumens Delivered	2874lm	5085lm
	3745lm	6514lm
	4372lm	9003lm
Lm/W	99lm	104lm
	107lm	99lm
	107lm	108lm
CRI	Ra 80	
CCT	4000K	
Input	220/240\	/
Hertz	50Hz	
Operating Temp	-10°C to	40°C







TOPE Batten







Commercial

Project Dudley College of Technology West Midlands, LIK



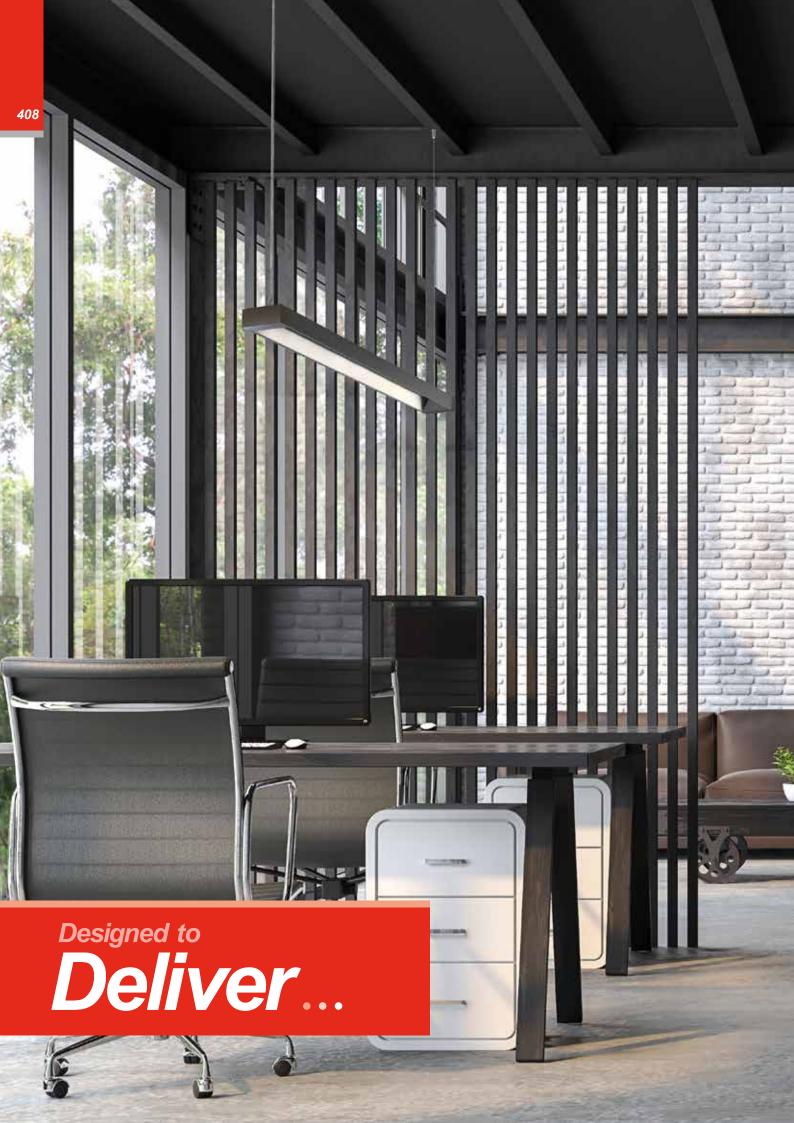
Commercial





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Selectable

Otto LED CCT Suspended Linear Supplied c/w Integral Driver and Suspension Kit







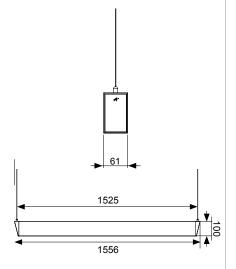








- Architectural suspended linear for office, retail and educational applications
- Die-Cast aluminum end caps
- Slim profile available in White (RAL9010) and Aluminium (RAL9006)
- Selectable CCT between 3000K and 4000K output
- Supplied bi-directional light output as standard (directional only option 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
- Through wiring as standard
- LED lifespan LM80 42,000 hours



LED Information

Total (Watts)	45W	86W
Lumens Delivered	1	
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	5	0/60Hz
Operating Temp	-25°C to	o 50°C











	Code	Lamp	Description
Bi-Directional	AOTLED5/CCT	LED	45W - Cool White/Warm White - Aluminium
	AOTLED2X5/CCT	LED	86W - Cool White/Warm White - Aluminium
	AOTLED5/W/CCT	LED	48W - Cool White/Warm White - Matt White
	AOTLED2X5/W/CCT	LED	84W - Cool White/Warm White - Matt White

Options	/M3	Self-Test Emergency
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)
	/MWS	Integral Microwave Sensor
Accessory	AOTLED/90B	90° Corner Connector

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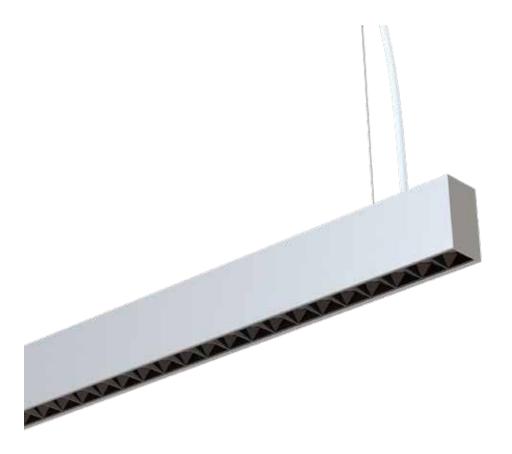














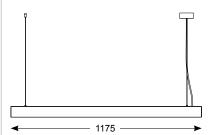
Easy connection for continuous applications

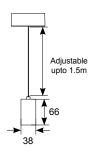


Supplied c/w 1.5m suspension kit

Code	Lamp	Description
ASIDLED/CW	LED	49W - Cool White

- 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)
- Exceeds performance of 2x28W 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





Total (Watts)	49W
Lumens Delivered	5209lm
Lm/W	106lm
CRI	Ra 80
CCT	4000K
Input	100/240V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C







Vasco LED Suspended Linear Supplied c/w Integral Driver and Suspension Kit

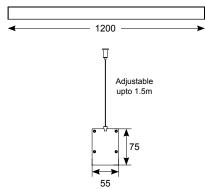






- Suspended linear for commercial applications
- Aluminium extruded construction with integral driver
- Exceeds performance of 2 x 28W T5
- Opal diffuser provides optimal light uniformity
- Pre-wired with 1.5 metre cable
- Adjustable suspension points c/w suspension kit
- LED lifespan L70 50,000 hours





Total (Watts)	23W
Lumens Delivered	2014lm
Lm/W	88lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C







Code	Lamp	Description
AVASLED	LED	23W - Cool White - Aluminium
AVASLED/B	LED	23W - Cool White - Black



Millau LED CCT Suspended Linear Supplied c/w Integral Driver and Suspension Kit







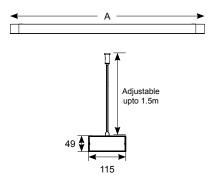




Intergrated switch for choice between Warm White, Cool White and Daylight

Code	Lamp	Description	Α
AMILLED4	LED	38W - 3000K/4000K/6000K	1222
AMILLED5	LED	58W - 3000K/4000K/6000K	1622

- 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



Total (Watts)	38W	58W
Lumens Delivered	1	
Cool White	3280lm	5317lm
Warm White	3153lm	5157lm
Daylight	3292lm	5334lm
Lm/W		
Cool White	88lm	96lm
Warm White	82Im	90lm
Daylight	87Im	94lm
CRI	Ra 80	
CCT	4000K	
	3000K	
	6000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-20°C to	45°C







Gemini LED Linear

Supplied c/w Integral Driver

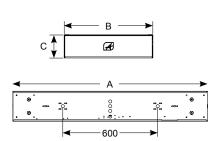








- High specification fully enclosed linear luminaire
- Microprism diffuser for enhanced photometric performance
- Robust steel construction
- Suitable for surface and suspension
- Ideal for most commercial and educational applications
- LED lifespan
 L70 65,000 hours



LED Information

LLD IIIIOIIIIation	
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









TRIDONIC

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C	ode	Lamp	Description	Α	В	С
Α	GELED2X4	LED	40W	1230	190	55
A	GELED2X5	LED	54W	1510	190	55

Option	/M3 /DD	Emergency Digital Dimming (DD1/DD2/DD3/DD4)
Accessor	y ASK1	Suspension Kit 1.3m

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Push fit loop-in, loop-out terminals provides a fast fit 414 installation Steel powder coated base for enhanced durability Powered by 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

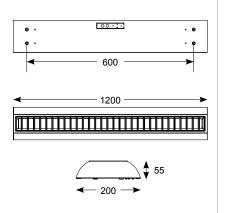








- High specification fully enclosed linear luminaire
- Steel powder coated body for enhanced durability
- Polycarbonate diffuser and polished louvre for excellent photometric performance
- Suitable for surface mounting and suspension
- Exceeds performance of 2x35W T5
- Ideal for most commercial and educational applications
- LED lifespan L70 54,000 hours





LED Information

Total (Watts)	42W
Lumens Delivered	4497lm
Lm/W	107lm
CRI	Ra 80
CCT	4000K
Input	220V-240V
Hertz	50Hz
Operating Temp	-20°C to 50°C







	Code	Lamp	Description	FPL	
	ACRESLED2X4	LED	42W - Cool White	600	
Option	/M3	Emergency			
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)			

Accessory ASK1 Suspension Kit 1.3m

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Supplied c/w Integral Driver



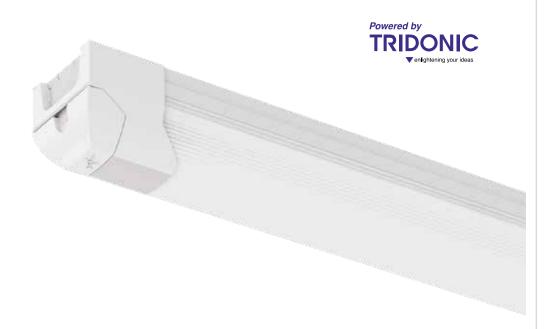












- High performance LED batten for multi-purpose applications
- Up to 56% energy saving compared to T8 fluorescent
- Steel body construction with powder coat finish
- Polycarbonate reeded diffuser and end caps
- Instant light output with unlimited switching
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor models
- LED lifespan L70 56,000 hours







20mm Conduit Entry Facility



End Cap Fixing Option



Ceiling Mounting Continuous Fixings

Standard	Code	Lamp	Description	Α	В	С	D
	ABLED4	LED	1 x 25W	1220	600	77	76
	ABLED5	LED	1 x 34W	1525	600	77	76
	ABLED6	LED	1 x 37W	1820	600	77	76
	ABLED2X4	LED	1 x 48W	1220	600	77	76
	ABLED2X5	LED	1 x 55W	1525	600	77	76

Options

/M3	Self-Test Emergency
/OCTO	OCTO Smart Control
/DD	Digital Dimming (DD1/DD2/DD3/DD4 - ABLED2X6 Not Available)
/MWS	Integral Microwave Sensor

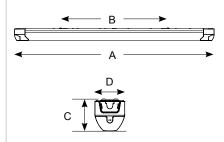
1820

600

77

76

1 x 70W



LED Information

Total (Watts)	25W 34W 37W	48W 55W 70W
Lumens Delivered	2778lm 3608lm 4189lm	5517lm 6407lm 7910lm
Lm/W	116lm 109lm 100lm	106lm 105lm 94lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	0°C to 25	s°C







ABLED2X6

LED

Proline LED Surface Linear

Supplied c/w Integral Driver





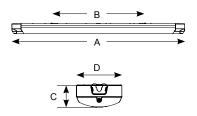








- Modern contemporary fully enclosed high performance surface luminaire
- Up to 56% energy savings compared to T8 fluorescent
- Steel powder coated body with reeded opal polycarbonate diffuser and retained end caps
- Low glare and uniform light distribution
- Ideal for most commercial and educational applications
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor options
- LED lifespan L70 56,000 hours



Total (Watts)	25W	49W
	33W	55W
	36W	70W
Lumens Delivered	2496lm	5097lm
	3440lm	6090lm
	4316lm	8029Im
Lm/W	100lm	98lm
	104lm	100lm
	114lm	101lm
CRI		Ra 80
CCT		4000K
Input		230V
Hertz		50Hz
Operating Temp	0°C	to 25°C





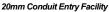














End Cap Fixing Option



Ceiling Mounting Continuous Fixings

	Code	Lamp	Description	Α	В	С	D	
Standard	APRLED4	LED	1 x 25W	1220	600	73	148	
	APRLED5	LED	1 x 33W	1525	600	73	148	
	APRLED6	LED	1 x 36W	1820	600	73	148	
	APRLED2X4	LED	1 x 49W	1220	600	73	148	
	APRLED2X5	LED	1 x 55W	1525	600	73	148	
	APRLED2X6	LED	1 x 70W	1820	600	73	148	

Options	/M3	Self-Test Emergency
	/ОСТО	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4 - APRLED2X6 Not Available)
	/MWS	Integral Microwave Sensor







Oxford LED Surface Linear

Supplied c/w Integral Driver

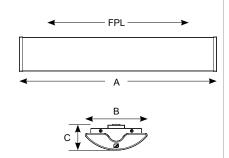








- Modern fully enclosed surface luminaire with curved low profile appearance
- This is a widely used style of fitting within the educational sector
- Steel body with polycarbonate diffuser and plastic end caps
- 23W exceeds performance of 1x35W T5
- 34W exceeds performance of 1x49W T5
- 38W exceeds performance of 2x28W T5
- 60W exceeds performance of 2x49W T5
- LED lifespan L70 54,000 hours
- Dimmable options





Total (Watts)	23W	34W			
	38W	60W			
Lumens Delivered	2944lm	3668lm			
	4248lm	6552lm			
Lm/W	128lm	108lm			
	111Im	109lm			
CRI		Ra 80			
CCT	4000K				
Input	230V				
Hertz	50/60Hz				
Operating Temp	-20°C	to 50°C			









Code	Lamp	Description	Α	В	С	FPL
AOXLED4	LED	23W - Cool White	1190	165	70	1084
AOXLED5	LED	34W - Cool White	1470	165	70	1384
AOXLED2X4	LED	38W - Cool White	1190	165	70	1084
AOXLED2X5	LED	60W - Cool White	1470	165	70	1364

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

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Brooklyn LED Bi-Directional PanelSupplied c/w Integral Driver and Suspension Kit

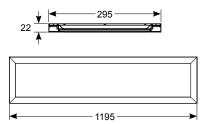








- High performance bi-directional suspendable LED panel
- Integral LED driver provides a unique aesthetically pleasing design
- White anodised aluminium frame
- Supplied c/w 1.2m suspension kit as standard
- LED lifespan L70 50,000 hours
- 1-10V dimmable as standard



Total (Watts)	36W
Lumens Delivered	3788lm
Lm/W	105lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°Cto40°C







Spektrum LED CCT Panel Frame

Supplied c/w Integral Driver

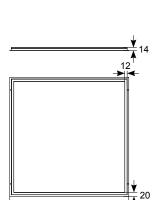








- High performance minimalist LED panel frame for commercial and architectural applications
- Hollow illuminated frame allows installation of standard ceiling panel to sit inside frame and level with grid
- Integral switch allows the installer a choice of 3000K, 4000K and 6500K colour temperature options
- LED lifespan L70 50,000 hours



595

LED Information

Total (Watts)	28W
Lumens Delivered	1
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°Cto 45°C









Cool White



Daylight



Warm White

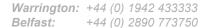
Lamp

Code

			·
	ASPELED/60/CCT	LED	28W - Warm White/ Cool white / Daylight
Options	/M3	Emergency	

Description

Options	/M3	Emergency
	/SM3	Self-Test Emergency
	/DM3	Dali Emergency
	/OCTO	OCTO Smart Control
	/DD	Digtial Dimming (DD1/DD2/DD3/DD4)





Supplied c/w Remote Driver























	Code	Lamp	Description
	AIRMLED/CW	LED	35W - Cool White
	AIRMLED/WW	LED	35W - Warm White
Emergency	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
Sensor	AIRMLED/POD/MWS		1W - Microwave Sensor
Option	/ОСТО	OCTO Sma	art Control
	/DD	Digital Dimming (DD1/DD2/DD3/DD4)	
Accessories	AIRMLED/SMF	Surface Mou	unting Frame (L600mm x W600mm x D75mm)
	AIRMLED/PRK	Plasterboa	rd Recessing Kit (Cut-out 615x615mm)
	AIRMLED/SK	2 Metre Su	spension Kit
	AEQTCC/600	Equaliser 60	00x600 Temperature Regulator

- 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

Total (Watts)	35W
Lumens Delivered	
Cool White	3300lm
Warm White	3100lm
Lm/W Cool White	94lm
Lm/W Warm White	88lm
CRI Cool White	Ra 80
CCT Cool White	4750K
CCT Warm White	3500K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 40°C







^{*} Subject to ceiling/installation types

^{*} Not applicable to surface/suspended applications



Supplied c/w Remote Driver





















Lamp



Surface Mounting Frame for **LED Panel** (shown with Panel Pod Emergency installed)

Code



Description

	AERMLED3/60/CW	LED	30W - Cool White
	AERMLED3/60/WW	LED	30W - Warm White
	AERMLED3/60/DL	LED	30W - Daylight
High Output	AERMLED3/HO/60/CW	LED	30W - Cool White
	AERMLED3/HO/60/WW	LED	30W - Warm White
	AERMLED3/HO/60/DL	LED	30W - Daylight
Emergency	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
Sensor	AIRMLED/POD/MWS		1W - Microwave Sensor
Options	/ОСТО	осто:	Smart Control
	/DD	Digital [Dimming (DD1/DD3)*
		* DD2/[DD4 available with alternative control gear
Accessories	AIRMLED/SMF	Surface N	nounting Frame (L600mm x W600mm x D75mm)
	AIRMLED/PRK	Plaster	board Recessing Kit (Cut-out 615x615mm)
	AERMLED/SK	2 Metre S	Suspension Kit

Equaliser 600x600 Temperature Regulator

- High performance maintenance free LED panel
- TPa as standard
- UGR<19 (unified glare rating) compliant luminaire assiating to elliminate 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
- Supplied c/w Philips LED driver
- LED lifespan L70 60,000 hours

AERMLED3/60 Dimensions (mm) L595 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

LED Information

Total (Watts)	30W	НО
Lumens Delivered		
Cool White	2953lm	3742lm
Warm White	2873lm	3610lm
Daylight	2938lm	3725lm
Lm/W Cool White	102lm	125lm
Lm/W Warm White	99lm	125lm
Lm/W Daylight	101lm	129lm
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

AEQTCC/600



coated frame for added

rigidity

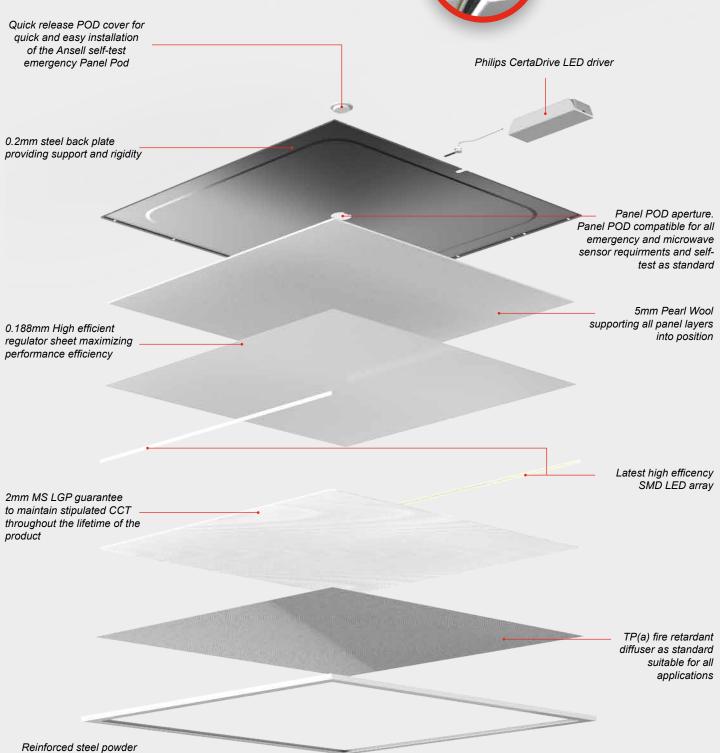




Panel Pod Compatible
Quickly and easily convert standard panel to
either Self-Test Emergency or Microwave Sensor



LED board placement creates a more uniform distribution of light with no dark spots or shadowing. LED lifespan L70 30,000 hours



Supplied c/w Remote Driver























Surface Mounting Frame for LED Panel (shown with Panel Pod Emergency installed)

Sensor

AIRMLED/POD/MWS



1W - Microwave Sensor

	Code	Lamp	Description
	AERMLED2/60/CW	LED	30W - Cool White
	AERMLED2/60/WW	LED	30W - Warm White
	AERMLED2/60/DL	LED	30W - Daylight
Emergency	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency

Options	/OCTO	OCTO Smart Control
	/DD	Digital Dimming (DD1/DD3)*
		* DD2/DD4 available with alternative control gear
Accessory	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

- 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
- Supplied c/w Philips LED driver
- LED lifespan L70 60,000 hours

AERMLED/260 Dimensions (mm) L595 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

Total (Watts)	30W
Lumens Delivered	
Cool White	3092lm
Warm White	2891lm
Daylight	3046lm
Lm/W Cool White	107lm
Lm/W Warm White	100lm
Lm/W Daylight	102lm
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



Supplied c/w Remote Driver























	Code	Lamp	Description
	AERMLED2/120/CW	LED	58W - Cool White
	AERMLED2/120/WW	LED	58W - Warm White
	AERMLED2/120/DL	LED	58W - Daylight
Emergency	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
Sensor	AIRMLED/POD/MWS		1W - Microwave Sensor

Option	/DD	Digital Dimming (DD1/DD2/DD3)
		9

- 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
- Supplied c/w Philips LED driver
- LED lifespan L70 60,000 hours

AERMLED/120 Dimensions (mm) L1195 x W595 x H10

See p430 for more information on Panel Pod Emergency and Panel Pod Sensor

58W
5780lm
5363lm
5646lm
100lm
93lm
97lm
Ra 80
4000K
3000K
6500K
230V
50/60Hz
-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
- 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
- Supplied c/w Philips LED driver
- LED lifespan
 L70 60,000 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)	30W
Lumens Delivered	
Cool White	3234lm
Warm White	3187lm
Daylight	3211lm
Lm/W Cool White	104lm
Lm/W Warm White	103lm
Lm/W Daylight	107lm
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



^{*} Subject to ceiling/installation types



Code	Lamp	Description
AERMLED2/30/CW	LED	30W - Cool White
AERMLED2/30/WW	LED	30W - Warm White
AERMLED2/30/DL	LED	30W - Daylight

Emergency	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
Sensor	AIRMLED/POD/MWS		1W - Microwave Sensor

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

Accessory	AERMLED/SK	2 Metre Suspension Kit
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Not applicable to surface/suspended applications









Panel Pod **Emergency**

AIRMLED/POD/3NM/ST



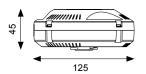


AIRMLED/POD/MWS

	Code	Lamp	Description
Emergency	AIRMLED/POD/3NM/ST	LED	5W - Panel Pod Self-Test Emergency
Sensor	AIRMLED/POD/MWS		1W - Microwave Sensor

Emergency Panel Pod

- Integral Self-Test emergency pod to convert any new Infinite LED and Endurance LED panel to emergency, instantly
- 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

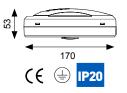


LED Information

Total (Watts)	5W
	1001
Lumens Delivered	189lm
D 4 /	1000
Beam Angle	120°
COT	05001/
CCT	6500K
Innut	230V
Input	230V
Operating Tomp	0°C to 45°C
Operating Temp	0 C 10 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



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

360° detection area with 120° detection angle ensures



Supplied c/w Integral Driver



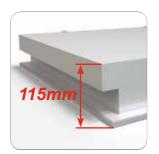






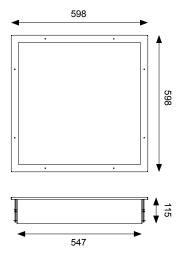


Easy Fix style bracket



115mm depth

- 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



Total (Watts)	49W
Lumens Delivered	4660lm
Lm/W	95lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°Cto 50°C









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

Lota LED CCT Troffer

Supplied c/w Integral Driver



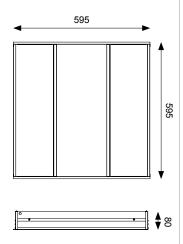








- UGR<19 (unified glare rating) compliant luminaire ideal for most interior lighting applications
- Ideal for office or commercial applications
- Selectable CCT between 3000K, 4000K and 6000K output
- Exceeds performance of 2x40W PL-L
- Powder coated steel construction
- LED lifespan L70 30,000 hours
- TP(a) as Standard



LED Information

Total (Watts)	29W
Lumens Delivered	
Warm White	3051lm
Cool White	3178lm
Daylight	3174lm
Lm/W	
Warm White	98lm
Cool White	106lm
Daylight	103lm
CRI	Ra 80
CCT	
Warm White	3000K
Cool White	4000K
Daylight	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C









Cool White







Warm White

Lamp

Code

/DD

	ALOTLED	LED	29W - Cool White/ Warm White/ Daylight	
Options	/M3	Emergenc	у	
	/SM3	Self-Test E	Emergency	
	/DM3	DALI Emer	DALI Emergency	
	/OCTO	OCTO Sm	OCTO Smart Control	

Digital Dimming (DD1/DD2/DD3/DD4)

Description

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Gridline Duo LED Indirect Recessed Modular

Supplied c/w Integral Driver, Louvre and Opal Diffuser











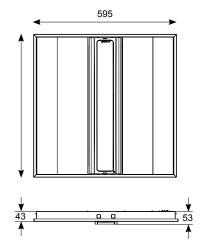






	Code	Lamp	Description
	AGDLED	LED	37W - Cool White
Options	/M3		Self-Test Emergency
	/DD		Digital Dimming (DD1/DD2/DD3/DD4)
	/MWS		Integral Microwave Sensor
Accessories	s AGDLED/WLA		High Gloss White Louvre Trim
	AGDLED/BLA		High Gloss Black Louvre Trim
	AIRMLED/PRK		Plasterboard Recessing Kit (Cut-out 608x608mm)

- 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



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

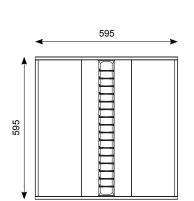








- High performance indirect recessed luminaire with outstanding efficiency characteristics
- Comparable performance to 3x14W T5
- Instant light output and unlimited switching
- Quick access termination point for ease of installation
- Powder coated welded steel box construction for lay in applications only
- LED lifespan L70 54,000 hours





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









Powered by

TRIDONIC





Quick Access Termination Point (Push Fit Terminals)



Mirrored Internal Reflector For Enhanced Distribution

	Code	Lamp	Description	
	AVENLED	LED	40W - Cool White	
Options	/M3	Emergen	Emergency	
	/осто	OCTO Si	OCTO Smart Control	
	/DD	Digital Di	Digital Dimming (DD1/DD2/DD3/DD4)	

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recessed luminaire Selectable CCT between

High performance indirect

- 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







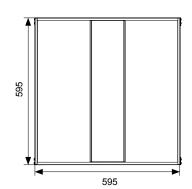


Warm White

	Code	Lamp	Description
	ANEPLED	LED	36W - Warm White/Cool White/Daylight
Options	/M3	Emergency	

Digital Dimming (DD1/DD2/DD3/DD4)

OCTO Smart Control





LED Information

Total (Watts)	36W
Lumens Delivered	1
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
	Lumens Delivered Warm White Cool White Daylight Lm/W Warm White Cool White Daylight CRI CCT Warm White Cool White Daylight Hertz







/OCTO

/DD

Pluto LED Supplied c/w Integral Driver

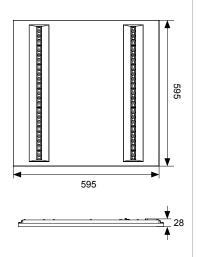








- Stylish LED recessed modular
- UGR>14 (unified glare rating) compliant Ideal for office, school, retail and commercial applications
- Exceeds performance of 2 x 55W PL-L
- LED lifespan L70 50,000 hours





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
	APLULED	LED	35W - Cool White
Options	/M3	Emergency	
	/OCTO	OCTO Smart Control	

Digital Dimming (DD1/DD2/DD3/DD4)

/DD

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







Emergency

Project Coxmoor Golf Club Sutton-in-Ashfield, UK



Emergency



IP65 Bulkheads



Exit Boxes



Suspended Edge



IP65 Surface/Recessed Edge







LED Emergency Downlights



Panel Pod Emergency

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

Swift LED Bulkhead

Supplied c/w Legend and Integral Driver



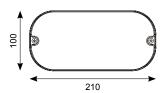








- Small and unobtrusive LED bulkhead
- Supplied with self-adhesive legend
- Optic design provides optimum performance for escape route lighting
- Side and rear cable entries
- Screwless gear tray for ease of installation
- Viewing distance 17 metres





- 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 60m2, 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,

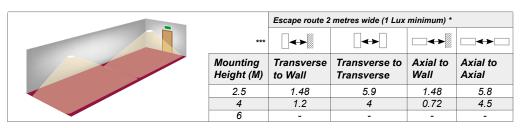
Axial - axial end to end spacing.

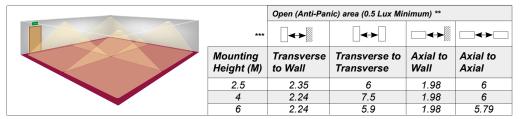


Total (W)	3W
Lumens Delivered	
Emergency Mode	69lm
Standard Mode	163lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

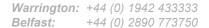








	Code	Lamp	Description
	ASWTLED/3M	LED	3W Maintained / Non-Maintained
Accessory	ASBP/1		3.6V 600mAh Ni-Cd Replacement Battery





Supplied with Legend and Integral Driver



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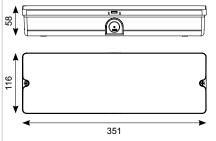


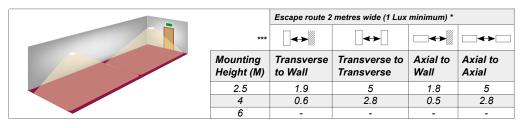


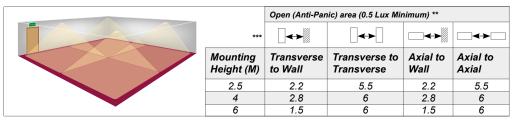




- Ultra-slim profile LED polycarbonate self-test bulkhead
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Supplied with selfadhesive legend
- 20mm side, end and rear cable entries
- Hinged screwless gear tray for ease of installation
- Viewing distance 18 metres







	Code	Lamp	Description
Self-Test	AMOLED/LI/3M/ST	LED	3W Maintained / Non-Maintained
Accessory	ASBP/18	3.2V 1500	mAh Li-FePO4 Lithium Replacement Battery

Total (W)	3W
Lumens Delivered	
Emergency Mode	119lm
Standard Mode	77lm
CCT	6000K
Input	220-240V
Hertz	50Hz
Operating Temp	5C° to 40C°





Guardian LED Bulkhead

Supplied c/w Legend and Integral Driver

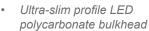








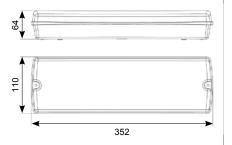




- Supplied with self-adhesive legend
- 20mm side, end and rear cable entries
- Hinged screwless gear tray for ease of installation
- · Viewing distance 18 metres



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 60m², 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

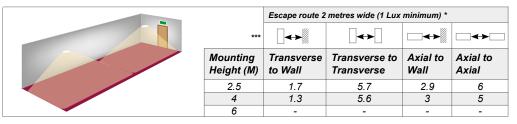
End to end spacing

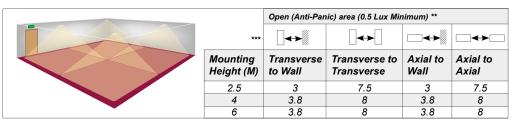
LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	144lm
Standard Mode	180lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°









Code		Lamp	Description
AGLE	ED/3M	LED	3W Maintained / Non-Maintained
Accessories AGLE	D/KIT		Semi-Recessing Kit - White
ASBF	2/2		3.6V 1500mAh Replacement Ni-Cd Battery

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Kite LED Emergency Bulkhead Supplied with Legend and Integral Driver





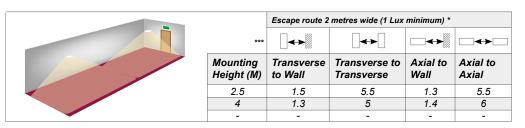


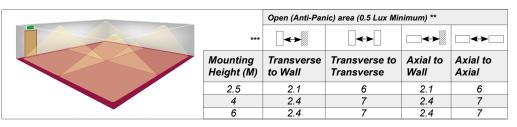






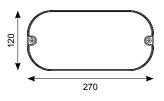






	Code	Lamp	Description
Self-Test	AKTLED/3M/ST	LED	4W Maintained / Non-Maintained
Accessory	ASBP/1		3.6V 600mAh Ni-Cd Replacement Battery

- Modern ultra-slim profile IP65 LED polycarbonate bulkhead
- Self-test as standard
- Aesthetically designed for modern appearance
- Supplied with selfadhesive legend
- 20mm side and rear cable
- Hinged screwless gear tray for ease of installation
- Viewing distance 20 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 60m², 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

EED miormation	
Total (W)	4W
Lumens Delivered	
Emergency Mode	79lm
Standard Mode	182lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°









Centurion LED Bulkhead

Supplied c/w Legend and Integral Driver





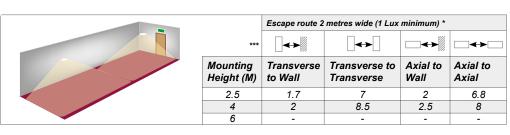


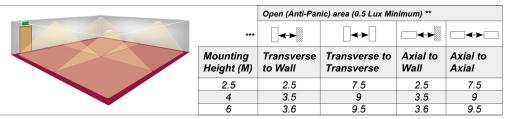






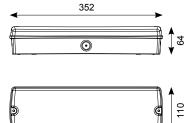






	Code	Lamp	Description
Self-Test	ACELED/3M/ST	LED	7W Maintained / Non-Maintained
Accessory	ASBP/2		3.6V 1500mAh Ni-Cd Replacement Battery

- High lumen performance LED polycarbonate bulkhead for increased spacings
- Supplied with selfadhesive 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 60m², 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

ZZZ miormation	
Total (W)	7W
Lumens Delivered	
Emergency Mode	151lm
Standard Mode	254lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°









Osprey High Rack LED Bulkhead Supplied c/w Integral Driver





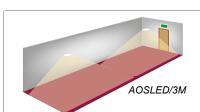




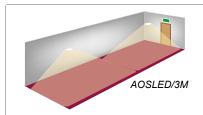








	Escape route 2 metres wide (1 Lux minimum) *				
***				□ ◆◆□	
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
10	-	-	5	20	
15	-	-	1.2	15.5	
	_	<u>-</u>	1.2	70.0	



ASBP/16

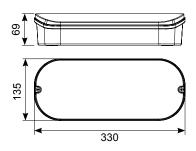
	Open (Anti-Panic) area (0.5 Lux Minimum)**				
***				+>	
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
10	5.2	14.5	5.2	18	
15	5	17	5	22	
,,,					

	Code	Lamp	Description
Self-Test	AOSLED/3M/ST	LED	9W Maintained / Non-Maintained - Self-Test
Cold Store	AOSLED/3M/CS	LED	22W Maintained / Non-Maintained - Self-Test
Accessories	ASBP/15	4.8V 4Ah Ni-Cd Replacement Battery	

Description

4.8V 4Ah Ni-Cd Replacement Battery (for use with Cold Store fitting)

- Modern slim profile IP65 LED polycarbonate bulkhead
- Compact high polished reflector design to provide required light level from high mounting heights
- High performance LED's and optical performance allows increased spacing ratios
- Cold store option incorporates an intelligent integral heat management system to operate in cold store applications down to -30°C
- Self-test as standard
- Aesthetically designed for modern appearance
- 20mm side and rear cable entries



- 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 60m², 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

Total (W)	9W
	22W
Lumens Delivered	
Emergency Mode	380lm
Standard Mode	438lm
Lumens Delivered	Cold Store
Emergency Mode	383lm
Standard Mode	554lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°
Cold Store	-30C° to 5C°



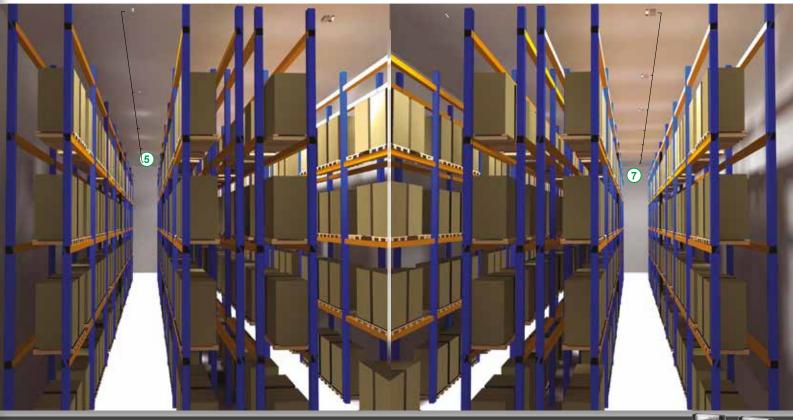






High Rack Bulkhead vs. Traditional Halogen Twin Spot

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







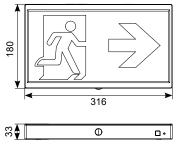








- Low profile compact and modern polycarbonate LED exit sign
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Self-test emergency as standard
- Supplied with all legend options - arrow down, arrow up and arrow left/right
- 20mm top and rear cable entries
- Viewing distance 30 metres



Code	Lamp	Description

AENLED/LI/3M/ST LED 4.5W - Maintained / Non-Maintained **Self-Test**

Accessory ASBP/18 3.2V 1500mAh Li-FePO4 Lithium Replacement Battery

Total (W)	4.5W
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



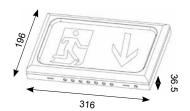








- Ultra slim modern LED exit sign
- Self-test option
- Neat picture frame appearance compared to conventional fluorescent exit signs
- Supplied with all legend options - arrow down, arrow up and arrow left/right
- Viewing distance 29 metres





AENLED/3M/W



AENLED/3M/SG

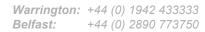
	Code	Lamp	Description
Standard	AENLED/3M/W	LED	2.6W Maintained/Non-Maintained - White
	AENLED/3M/SG	LED	2.6W Maintained/Non-Maintained - Silver Grey
Self-Test	AENLED/3M/W/ST	LED	2.6W Maintained/Non-Maintained - White
Accessory	ASBP/2		3.6V 1500mAh Ni-Cd Replacement Battery

Total (W)	2.6W
Lumens Delivered	
Emergency mode	27lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°











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Watchman LED Lithium Exit Sign Supplied c/w Legend and Integral Driver







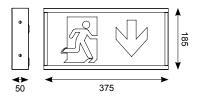








- Slim white steel LED exit box sign with legend
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- Larger dimensions enables easy retrofit replacement of fluorescent products
- Viewing distance 37 metres



	Code	Lamp	Description
Self-Test	AWLED/LI/3M/ST	LED	3.5W Maintained / Non-Maintained
Legends	AWLED/L/AD	Lithium Le	egend - Arrow Down
	AWLED/L/AR	Lithium Le	egend - Arrow Right
	AWLED/L/AL	Lithium Le	egend - Arrow Left
	AWLED/L/AU	Lithium Le	egend - Arrow Up
Battery	ASBP/18	3.2V 1500	mAh Li-FePO4 Lithium Replacement Battery

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



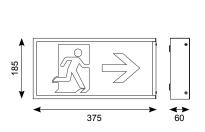








- White steel LED exit box sign with legend
- Larger dimensions enables easy retrofit replacement of fluorescent products
- Viewing distance 37 metres





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
	AWLED/3M	LED	3W Maintained / Non-Maintained
Legends	AG8/L/AD		Legend - Arrow Down
	AG8/L/AR		Legend - Arrow Right
	AG8/L/AL		Legend - Arrow Left
	AG8/L/AU		Legend - Arrow Up
Battery	ASBP/3		3.6V 1800mAh Ni-Cd Replacement Battery

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



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AE3LED/3M/SI Semi Recessed



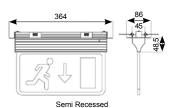


AE3LED/3M/W Side Arm Wall Mounted

	Code	Lamp	Description
Standard	AE3LED/3M/W	LED	2.5W Maintained/Non-Maintained - White
	AE3LED/3M/SI	LED	2.5W Maintained/Non-Maintained - Silver
Self-Test	AE3LED/3M/W/ST	LED	2.5W Maintained/Non-Maintained - White
Legends	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
Battery	ASBP/4		3.6V 800mAh Replacement Ni-Cd Battery

- 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









Side Arm Wall Mounted

Total (W)	2.5W
Lumens Delivered	
Emergency mode	21lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°









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Razzo LED Lithium Recessed Exit Sign Supplied c/w Integral Driver and Legend





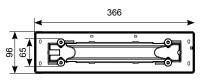


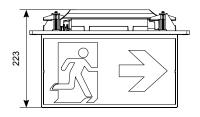






- Slim low profile recessed LED exit sign
- LiFePO4 Lithium battery provides improved energy consumption, product reliability and lifetime
- DALI emergency as standard
- Supplied c/w all legends
- If not connected to DALI network self-test mode operates automatically
- Viewing distance 24 metres









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)



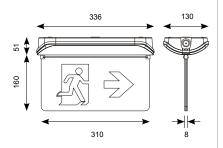








- Compact high performance IP65 polycarbonate surface emergency luminaire
- Self-test as standard
- Optional hanging blade legends (supplied with self-adhesive legend as standard) for enhanced appearance
- Aesthetically designed for modern appearance
- 20mm side and rear cable entries
- High output LED 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 60m², 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

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
Self-Test	AHARLED/3M/ST	LED	5W Maintained/Non-Maintained
Legends	AHARLED/ALAR	Harrier L	.ED Double Sided Legend - Arrow Left and Right
	AHARLED/L/AD	Harrier LED Double Sided Legend - Arrow Down	
	AHARLED/L/AU	Harrier LED Double Sided Legend - Arrow Up	
Battery	ASBP/5	7.2V 1500	0mAh Ni-Cd Replacement Battery







IP65 Owl LED Twin Spot Supplied c/w Integral Driver



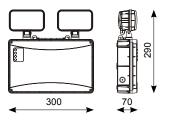








- Self-test Twin LED emergency floodlight for industrial applications
- Robust white moulded enclosure
- Exceeds performance of 2x20W halogen equivalent
- Moulded polycarbonate heads





Total (W)	5W
Lumens Delivered	
Emergency Mode	440lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 40C°



	Code	Lamp	Description
Self-Test	ATSLED/3NM/IP65/ST	LED	5W Non-Maintained
Battery	ASBP/6		3.6V 6Ah Ni-Cd Replacement Battery









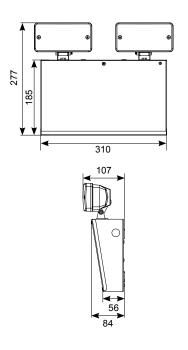






	Code	Lamp	Description
	ATSLED/3NM	LED	3W Non-Maintained
Battery	ASBP/7		3.6V 4Ah Ni-Cd Replacement Battery

- Twin LED emergency floodlighting for industrial applications
- Exceeds performance of 2x20W halogen equivalent Robust metal enclosure in
- an opal colour
- Moulded polycarbonate heads



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



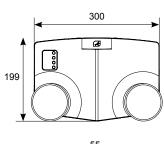








- Sleek modern polycarbonate moulded decorative twin spot
- Individual adjustable LED array's allowing the end user to aim output into the desired location
- Decorative design suitable for retail application
- Self-test as standard





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
Self-Test	ACTSLED/W/3NM	LED	5W - White
Self-Test	ACTSLED/B/3NM	LED	5W - Black

ASBP/6 3.6V 6Ah Ni-Cd Replacement Battery

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



Signal LED Pro Lithium Emergency Downlight Supplied c/w Remote Driver and Battery Pack









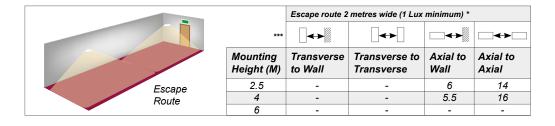


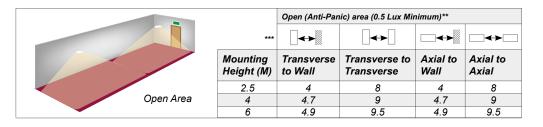


ASPRLED/LI/3M/DA



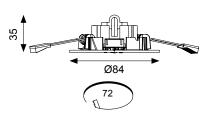
ASPRLED/LI/3M/DA Escape Route Lens





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

- Compact LED Non-Maintained fixed downliaht
- LiFePO4 Lithium battery provides enhanced product lifetime
- 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 60m2, 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

Total (Watts)	2.5W
Lumens Delivered E	Emergency Mode
Open Area	209lm
Escape Route	201lm
Beam Angle	
Open Area	144°
Escape Route	143°
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











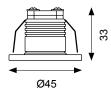








- White and black powder coat paint finish
- LED combines power and green charge indicator
- 3 hour emergency output





- 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 60m², 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

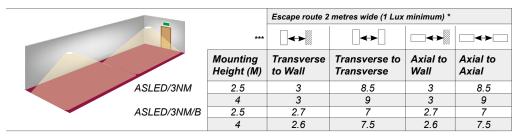
LED Information

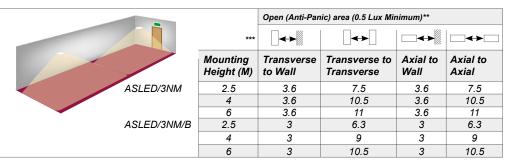
Total (Watts)	1.5W		
Lumens Delivered Emergency Mode			
ASLED/3NM	137lm		
ASLED/3NM/B	107lm		
Beam Angle			
ASLED/3NM	128°		
ASLED/3NM/B	115°		
CCT	6500K		
Input	230V		
Hertz	50/60Hz		
Operating Temp	0°C to 40°C		











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

Accessory ASBP/8 3.6V 2Ah Ni-Cd Replacement Battery

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



Beacon LED Emergency Fixed Downlight Supplied c/w Remote Driver and Battery Pack

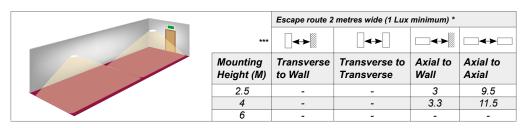


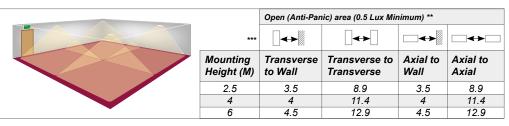






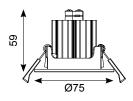






	Code	Lamp	Description
	ABFLED/3NM	LED	5W Non-Maintained
Accessory	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery	

- 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 60m², 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

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







Beacon LED Emergency Adjustable Downlight Supplied c/w Remote Driver and Battery Pack

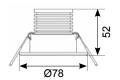








- LED Non-Maintained adjustable die-cast aluminium downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 22° beam angle





- 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 60m², 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

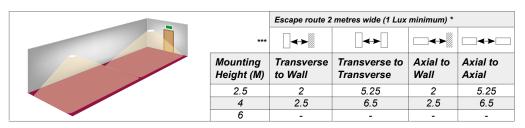
End to end spacing

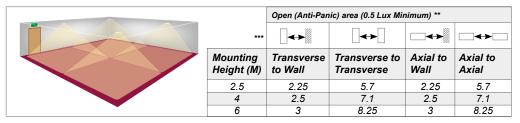
LED Information

Total (Watts)	5W
Lumens Delivered	1
Emergency Mode	248lm
Beam Angle	22°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

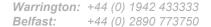








	Code	Lamp	Description
	ABLED/3NM	LED	5W Non-Maintained
Accessory	ASBP/9		3.6V 4.5Ah Ni-Cd Replacement Battery

















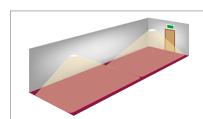
Emergency downlight with integral inverter and battery pack



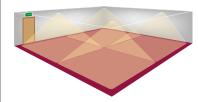
Escape Route



Open Area



	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	**	**	**	**		



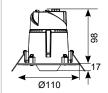
***				□↔ □
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	2.5	4.88	2.5	4.88
4	2.8	6.69	2.8	6.69
6	2	8.5	2	8.5

Open (Anti-Panic) area (0.5 Lux Minimum) **

	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 2600mA Li-FePO4 Lithium Replacement Battery

- 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





Open Area

Escape Route



- 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 60m², 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	1
Emergency Mode	
Open Area	114lm
Escape Route	90lm
Beam Angle	
Open Area	43.3°
Escape Route	132°
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







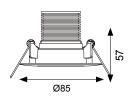








- Self-test as standard
- Option of escape route or open area models
- High specification optic design and performance allows increased spacing providing reduced cost
- Up to 17.8 metres spacing between luminaires





- 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 60m², 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)	5V	V
Lumens Delivered		
Emergency Mode		/B
Open Area	259lm	191lm
Escape Route	247lm	229lm
Beam Angle		
Open Area	110°	108°
Escape Route	140°	140°
CCT	6500K	
Input	230V	
Hertz	50/60Hz	2
Operating Temp	0°C to 40	O°C













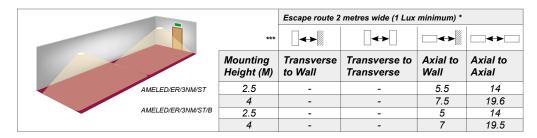


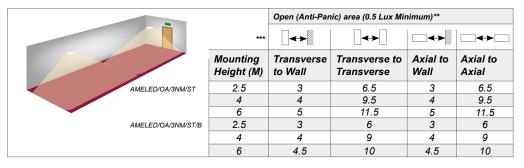




AMELED/OA/3NM/ST

AMELED/ER/3NM/ST/B





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

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

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





IP65 Falcon LED Surface Emergency Downlight Supplied c/w Integral Driver and Battery Pack



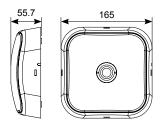








- Compact surface ultra-low profile recessed self-test emergency downlight
- Self-test as standard
- Supplied with open area and escape route interchangeable lenses
- High specification optic design and performance allows increased spacing providing reduced cost
- Up to 19.6 metres spacing between luminaires
- BESA mounting option



- 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 60m², 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)	31/	V
Lumens Delivered		
Emergency Mode	White	Black
Open Area	152lm	142lm
Escape Route	138lm	116lm
Beam Angle		
Open Area	96°	96°
Escape Route	140°	135°
CCT	6500K	
Input	230V	
Hertz	50/60Hz	Z
Operating Temp	0°C to 40	0°C





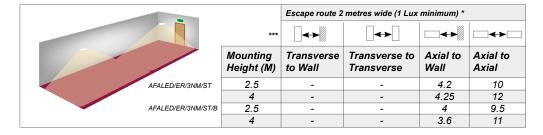


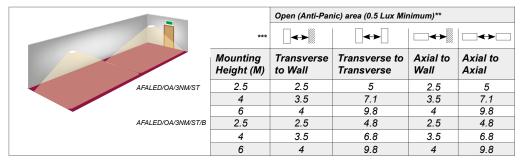


AFALED/3NM/ST/IP65/B

Open Area Lens

Escape Route Lens





	Code	Lamp	Description
Self-Test	AFALED/3NM/ST/IP65	LED	3W Non-Maintained
Self-Test	AFALED/3NM/ST/IP65/B	LED	3W Non-Maintained - Black
Accessory	ASBP/10	3.6V 3Ah Ni-Cd Replacement Battery	

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



LED Panel Pod Emergency for Infinite and **Endurance LED Panels**





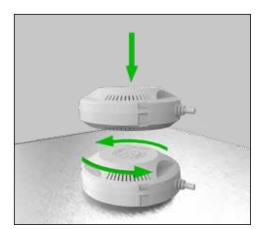








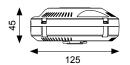
STEP 1 Unscrew coin plug from back of Ansell LED Panels



STEP 2 Locate and twist Panel Pod into position. Connect incoming supply to pre-leaded cable

	Code	Lamp	Description
Self-Test	AIRMLED/POD/3NM/ST	LED	5W - Cool White
Accessory	ASBP/11	3.6V 4.5Ah Ni-	Cd Replacement Battery

- Integral emergency pod to convert any new Ansell Infinite LED and Endurance LED panel to emergency, instantly
- 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	
Emergency Mode	189lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°







GU10 LED Emergency Lighting 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 Maintained / Non-Maintained - CFL/LED



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.			
Stainless Steel 316L	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 Ta	ask or Accent lighting.		
Ambient Temperature	Surrounding - the ambient temperature is the temperature of the ai A critical criterion for fixture selection especially in extreme temper			
Anti-Ligature	This is a luminaire that is free from points where a cord could be fitting is classed as Anti-Ligature the ligature risk is eliminated by 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 pronounced in one direction. Commonly found on floodlights to keeping unwanted upward light spillage to a minimum.			
Azimuth	The orientation angle in the horizontal plane, commonly referred to	o in floodlighting schemes.		
Bathroom Zones	Bathroom luminaire installations must comply with legislation; plea	se refer to latest building 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.	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 zo of IPX4 is required. It is also recommended to have luminaires with basin (with 0.6m radius of the tap). Outside Zones - Anywhere outside Zones 0, 1 and 2 are classed specific areas) providing water jets are not used, so the minimum of are to be used a minimum of IPX5 is required. Full details can be found in the IEE Wiring Regulations.	one a minimum rating n a rating of IPX4 around the wash as outside zones (excluding		
Ballast	A device used to operate fluorescent and HID lamps. The ballast, current during operation, provides the necessary voltage to the land			
Ballast Losses	Power, which is supplied to ballast but is not converted into lamber heat. There are strict guidelines to ensure only efficient ballasts a consumption.	,		
Ballast Lumen Factor	The ballast lumen factor (BLF) is the ratio of the light output of the emergency lighting conditions compared to normal mains supply.	lamp when operated under		
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 parameters (normally colour and lumens). This allows design engi and it allows the manufacturer to order LED's that function consist Binning also makes it possible to re-order LED's that match the order LED's the order LED's that match the order LED's	neers to systematically specify an LED ently.		

Brightness	What the eye actually sees. Not to be confused with luminance, which is what a lightmeter, reads.	
BSI	British Standards Institute. The UK National Standards Body - www.bsigroup.com Key Standards applicable include 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, In-built Transformers BS EN 60598-2-22 Luminaires - Specific requirements, Emergency Lighting BS EN 61047 Electronic Transformers	
Building Regulations	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.	
Candela (CD)	The SI unit of luminous intensity. The intensity of a light source in a Specific direction.	
Capacitor	Component that stores electrical energy. Often used for power factor correction and lamp regulation.	
ССТ	Correlated Colour Temperature (CCT) defines the colour appearance of a white LED. CCT is defined in degrees Kelvin. See also Colour Temperature	
CE	European Community conformity mark. This denotes that the item conforms with the requirements relevant EU Directives	
CELMA	Federation of National Manufactures for Luminaires and Electrotechnical Components for Luminaires. A European body committed to improving standards within the lighting industry. www.celma.org	
CIBSE	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. www.cibse.org	
Class I	Luminaires in this class are electrically insulated and provided with connection with earth.	
Class II	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.	
Class III	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).	
Colour Rendering Index (CRI/Ra)	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.	
Colour Temperature (Light sources)	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	
Compact Fluorescent	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.	
Corridor Function	Corridor Function is a setting of DD Dimmable control gear for operation with a PIR (standard on/off). Dimmable ballasts reduces light output to approxiamately 10% when the area is unoccupied and increases to full light output when presence detector (MWS / PIR) is activated.	
Data Sheets	Are available for Ansell products to enable Operation and Maintenance manuals to be completed. These can be obtained via www.anselluk.com.	



DC Direct Current	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.
DD1 (Switch Dim)	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 (<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.
	For full operation the circuit should be as shown below, using a 4 core installation (switched live, permanent live supply, neutral and earth).
DD2 (DSI)	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.
	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.
	Each luminaire requires a 3 core mains supply (L E N) and an additional DSI signal cable, normally a 2 core 0.75mm2 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.
DD3 (DALI)	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.
	The DALI system offers 64 individual addresses, 16 group addresses and the ability to program each ballast with up to 16 scenes.
DD4 (Analogue Dimming 1-10V)	1-10V control gear requires an analogue (1-10V) signal from an external source to instruct the ballast / LED Driver to dim.
	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.
	Each luminaire requires a 3 core mains supply (L E N) and an additional 1-10V signal cable, normally a 2 core 0.75mm2 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).
DD5 (OCTO Smart Dim)	Mains / triac dimming option; allowing detailed products to be used in conjunction with OCTO controllers (AOCTO/IC/200 or AOCTO/OC/IP65/200)
Dimmers & Dimming	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.
Direct Lighting	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.
Directional Lighting	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.
Discharge Lamps	Fluorescent lamps are medium pressure discharge lamps but high-pressure lamps include Metal Halide, Ceramic Metal Halide, and High-pressure Sodium lamps.

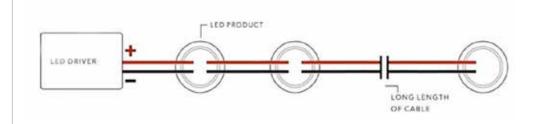
Technical A-Z

21.02				
DLOR	Downward Light Output Ratio. The ratio of the total light output of a luminaire below the horizontal.			
DMX	(Digital Multiplex) is a standard for digital communication networks that are commonly used to control stallighting 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 prima method for linking controllers (such as a lighting console) to dimmers and special effects devices such fog machines and intelligent lights.			
	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.			
Double Insulation	Insulation comprising both basic insulation and supplementary insulation. Also referred to as Class II			
Edge Lit	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.			
Efficiency	Ratio of power supplied to wattage dissipated.			
Efficacy	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			
Electromagnetic Ballast (Magnetic Ballast)	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.			
Electronic Ballasts (High Frequency)	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.			
EMC	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.			
Emergency Lighting	Lighting provided for use when the main lighting installation fails enabling safe exit from a building.			
Emergency Lighting test	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 Daily – Visual Check that the charge indicator LED is illuminated Monthly – A Functional test, that the luminaire operates when mains supply is disconnected Annually – As Monthly test but for the full rated duration of the luminaire (3hrs)			
Escape Route Lighting	Emergency lighting provided on a defined route to ensure that the means of escape from a point in a building to the final exit.			
E27 (ES)	Edison Screw (lampholder or lamp cap).			
E40 (GES)	Giant Edison Screw (lampholder or lamp cap) common on larger wattage HID lamps.			
Filament	The tungsten coil that glows to incandescence when an electric current passes through it.			
Fire-Rated	A luminaire, usually a downlight, which has been designed to function also as a fire barrier when installed into a building.			
Flicker	A visible oscillation in the luminous flux/light output.			
Flood Beam	Reflector lamps and luminaires with in built reflectors having a beam spread of more than 60°			
Fluorescent lamps	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.			
Fluorescent Tubes T12, T8, T5 etc	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.			



Flux	(Lumens) falling on to a surface.			
Frequency General Lighting	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.			
Glare	Refers to the difficulty seeing in the presence of bright light such as direct or reflected sunlight or artificial light such as direct LED ouput. Because of this, some luminaires include opal diffusers or reflectors to provide an anti-glare function.			
Hazardous Area		exists. Commonly referred to as Zone 1, Zone 2 etc, but hroom areas. Ansell do not offer any equipment suitable		
Hertz (Hz)	Cycles (frequency) per second.			
High Risk Task Area		g provided to ensure the safety of people involved in a enable proper shut down procedures for the safety of the		
High Power LED	A high power LED, one that is driven at a current	of 350mA or higher.		
Illuminance	A photometric term that quantifies the light on a s This can be calculated or measure with a lightmet	surface or plane. It is expressed in lumens per m² (lux). ter.		
Illumination	The density of luminous flux on a surface this parameter shows how "bright" the surface point appears to the human eye.			
Incandescent Lamp	A lamp which produces light by electrically heating a filament.			
Indirect Lighting	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.			
IP Ratings	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:			
Classification of Ingress Protection	Protection Against Solid Objects IP20 Greater than 12mm IP21 Greater than 12mm IP22 Greater than 12mm IP23 Greater than 12mm IP40 Greater than 1mm IP44 Greater than 1mm IP44 Greater than 1mm IP54 Dust-protected IP55 Dust-protected IP65 Dust-tight IP65 Dust-tight IP66 Dust-tight IP67 Dust-tight IP68 Dust-tight IP68 Dust-tight IP68 Dust-tight	Protection Against ingress of Water Non-protected Dripping water Dripping water (up to 15° angle) Spraying water (up to 60° angle) Non-protected Spraying water (up to 60° angle) Splashing water Splashing water Water jets Splashing water Water jets Powerful water jets Water immersion Submersion to declared depth Powerful high temperature water jets		
Initial Lumens	Lumen output of a lamp after it has been operatin	g 100 hours.		
Input Voltage	Voltage provided to a ballast/luminaire by the pow	ver supply.		
Inrush Current	Components such as LED drivers can have high inrush currents for milliseconds; this should be considered when specifying switching and breaker ratings.			

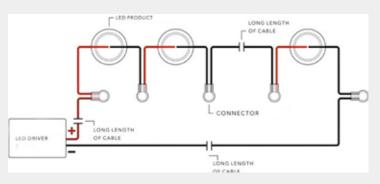
Illuminance	The amount of light.
Illumination Level	Refers to light levels of a space at other than initial or rated conditions. This term considers light loss factors such as lamp lumen depreciation, luminaire dirt depreciation, and room surface dirt depreciation.
Isolux Diagram	A diagram showing contours of equal illuminance. Can be used to determine the direct illuminance on a plane.
Kelvin	A measurement of temperature. 1° F = 256° Kelvin. 1° C = 274° 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 (°C) plus 273.
Kwh	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.
Lamp	A device which converts electrical energy into light.
LED	Light-emitting Diode. An LED is a solid-state semiconductor device that converts electrical energy directly into light.
LED Driver / Converter	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.
LED Parallel Wiring	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.

LED Series Wiring

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. Please note that incorrect wiring of an LED can result in irreparable damage to the LED and associated power supplies.



LED White

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



LIA	Ansell Lighting is an accredited member of this leading UK trade organisation. All Ansell manufacturing facilities are audited on an annual basis to ensure compliance and quality.			
	www.thelia.org.uk			
Lighting Design	Ansell offer a lighting design service provided by a team of vastly experienced and industry qualified staff. A simple to complete form is available to ensure designs are prepared with all of the correct criteria taken into consideration.			
	Contact: E: lightingdesign@anselluk.com T: 01942 433 537			
Light Meter	or exposure meter. A device use for the measurement of light intensity. This should have a cosine corrected sensor, usually a convex shape, to measure light falling on to it from all directions and a digital readout for accuracy.			
Light Spillage/Trespass	Unwanted or nuisance light which is spilled beyond the boundry of the illuminated property or area.			
Lm/W	Lm/W can be separated into two categories: Lumens per Watt and Luminaire Lumens per Watt. Each can be used dependent upon the requirement and application type.			
	Lumen per Circuit Watt is a measure of the efficacy of a light source in terms of the total lamp lumens compared to the power consumed. For example, a 100-watt fixture producing 1750 lumens gives 17.5 lumens per watt.			
	Luminaire Lumens per Circuit Watt is a measure of the total lamp lumens and how the luminaire manipulates this light (L.O.R.) compared to the power consumed. For example, a 100-watt fixture producing 1750 lumens with a L.O.R. of 0.50 gives 35 luminaire lumens per watt.			
LOR	Light Output Ratio. The ratio of the total light output of a luminaire under stated conditions to that of the lamp or lamps under reference conditions. The higher the figure, the more efficient the luminaire is. LOR may consist of any ratio of DLOR and/or ULOR.			
Lumen	Standard unit of luminous flux. Describes the quantity of light emitted by a light source or received by a surface.			
Lumen Depreciation	Figures published refer to the L50, L70 or L80 classification system where the number relates to the percentage of light output. So a 30,000hr L70 LED would be expected to have 70% of its rated output at 30,000hrs. LED's are subject to very small operating temperature parameters and figures quoted are typically at 25°C.			
Luminance	The physical measure of brightness measured by the luminous intensity of the light emitted or reflected in a given direction from a surface element dived by the area of the element in the same direction. The SI unit of luminance is the candela per square metre (Cd/m2) It is very difficult to determine other than with a luminance meter.			
Luminous Efficiency	The ratio of the luminous flux emitted by a lamp to the power consumed by the lamp. When the power consumed by the control gear is taken into account this term is sometimes known as lamp circuit luminous efficacy and is expressed in lumens/circuit watts.			
Lux	The metric unit of measure for illuminance of a surface. One lux is equal to one lumen per metre-squared.			
Maintained Luminaire	A luminaire containing one or more lamps all of which operate from the normal supply or from the emergency supply when required.			
Metal Halide Lamp	A high intensity discharge (HID) lamp, which uses a mercury discharge modulated by other additives to give, enhance colour and efficiency.			
Mercury Lamp	A type of high intensity discharge (HID) lamp in which most of the light is produced by radiation from mercury vapour. Available in clear and phosphor-coated lamps.			
Microwave Sensor (MWS)	Microwave Sensor(MWS) Sophisticated presence detector that uses low power Microwave signals which are then reflected by moving persons and measured using the "Doppler effect" method. As lamps will have life expectancy affected by frequent switching, sensors integral to Ansell luminaires have been configured to maximise lamp life.			

М3	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.				
Night Light (NL)	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.				
NiCd	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)				
NiMh	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.				
Non-Maintained Luminaire	Luminaire is off when the mains power is available to charge the batteries. Upon supply failure the luminaire is energised from the battery pack.				
Open (anti-panic) Area Lighting	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.				
Operating Frequency	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.				
PIR	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. 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.				
Phosphor	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.				
Photocell	A light-sensing device used to control luminaires and dimmers in response to detected light levels.				
Phase Cut Off / Resistive Dimmers	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.				
Photometrics	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 www.anselluk.com/downloads				
Ra	See Colour Rendering				
REACH	Registration, Evaluation, Authorisation & restriction of Chemicals. An EU Directive covering the use of hazardous chemicals used in the maufacturing process and supply of products.				
Relux	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 www.relux.biz				



RoHS	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.
Self-Contained	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.
Self Test Emergency	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 preprogrammed 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).
SELV	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.
Stroboscopic Effect	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.
Symmetrical Distribution	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.
Task lighting	Localised lighting intended for a specific task, examples include bedhead reading lights, desk lamps and inspection bench lighting.
t°C	Rated value of the casing's maximum operating temperature. Typically marked on control gear components.
Thermal Cut-out	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.
Thermal Performance	This term refers to the design / thermal management of a luminaire.
TP(a), TP(b)	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.
Transformer	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.
ULOR	Upward Light Output Ratio The ratio of the total light output of a luminaire above the horizontal.
Unified Glare Rating	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 perciptible the glare effect.
Utilisation Factor	The proportion of the luminous flux emitted by a light source, which reaches the working plane.
UV Ultra Violet	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, particulary 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.

Voltage	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.
Watt (W)	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.)
WEEE	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) - WEE/FH0429XT Ansell Sales and Distribution (Belfast) - WEE/GJ0292UQ When supplied as B2B EEE the producer invokes regulation 12.2 and passes all WEEE obligations to the end user.
Zenith	The direction directly above the luminaire (180° angle). Term used in floodlighting designs.



Technical Lamp Types

Lamp Type Voltage(V)	Rating (W)	Light Flux (lm)	Illustration	Cap/Base Type	Colour Temperature	
PL-S	5	250		G23	4000K	230
	7	400	1	020	100011	200
	9	600				
	11	900				
PL-C (2-Pin)	10	600		G24 d-1		
	13	900	4	G24 d-1	4000K	230
	18	1,200		G24 d-2		
	26	1,800		G24 d-3		
PL-C (4-Pin)	10	600		G24 q-1		
	13	900	1	G24 q-1	4000K	230
	18	1,200		G24 q-2		
	26	1,800		G24 q-3		
PL-T	13	900	mess)	GX24 q-1		
	18	1,200	-	GX24 q-2		
	26	1,800		GX24 q-3		
	32	2,400		GX24 q-3	4000K	230
	42	3,200	-	GX24 q-4		
	57	4,300		GX24 q-5		
	70	5,200		GX24 q-6		
Megaman Clusterlite	60W	4,000		E27	4000K	230
PL-L	18	1,200				
	24	1,800				
	36	2,900				
	40	3,500		2G11	4000K	230
	55	4,800	4			
	80	6,000				
TC-DD (2 Pin)	16	1,050				
, ,	28	2,050	U [®] U	GR8	3500K	230
TC-DD (4 Pin)	16 28	1,050 2,050		GR10q	3500K	230
	38	2,700	0.0	·		
T5c	40 55	3,400 4,300		2GX13	4000K	230
GX53	7	350				
GASS						
	9	450 570		GX53	2700K/4000K	230
	13	570 650				
T5 Miniature	4	150				
i 5 Milliature	6	260				
	8	420	- William and	G5	3500K	230
		850				
T5 High Efficency	13					
is might Enlicency	14	1,350				
	21	2,100	Charles in	G5	4000K	230
	28	2,900	*			
	35	3,650				
T5 High Output	24 39	2,000 3,500				
	49	4,900	40	G5	4000K	230
	54 80	5,000 7,000	1			
T8 Triphosphor	18	1,350				
J J	36	3,350				
	58	5,200	112	G13	4000K	230
	70	6,000	1900			

Lamp Type	Rating (W)	Light Flux (lm)	Illustration	Cap/Base Type	Colour Temperature	Voltage (V
T8 Halophosphor	15 18 30 36 58 70	950 1,150 2,175 2,850 4,600 5,500	123	G13	3500K	230
T8 LED Tubes	10 18 22	1050 2000 2350	The state of	G13	4500K	230
SONE-I	70	5,300	0	E27	2000K	230
SONT	150 250 400	15,000 27,500 50,000	4	E40	2000K	230
SONT	1,000	130,000	1350	E40	2050K	230
SONE	250 400	26,000 47,500	0	E40	2000K	230
MBF	80 125	3,800 6,500	0	E27	4100K 4000K	230
MBF	250 400	15,000 22,500	•	E40	3500K	230
HQI-TS	70 150	5,500 10,000	SE SE	RX-7	4200K	230
HQI-E	70 150	5,300 13,300	0	E27	4000K	230
HQI-E	250 400	23,800 41,000	0	E40	4000K	230
HQI/T (MBI/T)	200 250 320 400	20,000 18,900 30,000 32,400	03 5	E40	4000K	230
HPI/T	250 400	19,000 33,000	China San	E40	4000K	230
HQI/T (MBI/T)	1,000 2,000	85,000 240,000	53	E40	6000K	230 415
CDM-T	35 70 150	4,000 7,750 15,000	100	G12	3000K	230
CDM-TC	35 70	4,000 7,650	-	G8.5	3000K	230
GLS Halogen	30 46 70	405 700 1,200		B22	2700K	230
Striplight	60	710	e ,	S19	2700K	230
G4	20	260	20	G4	2900K	12
G 9	40 60	490 820		G9	2900K	230



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N/3MON/GU10/B	155	N/A	0.16		A/3ULEDS4/B	161	93	1.4		ABD/W	127	N/A	0.26	
V3MON/GU10/SS	155	N/A	0.16		A/3ULEDS4/SS	161	93	1.4		ABEAMLED	266	81	1.3	
/3MON/GU10/W	155	N/A	0.16		A/3ULEDS4/W	161	93	1.4		ABELED/WV	271	87	0.33	
/3MT1/B	153	N/A	0.10		A/3ULEDS4/WW/B	161	88	1.4		ABFLED/3NM	99	N/A	0.656	
/3MT1/SS	153	N/A	0.88		A/3ULEDS4/WW/SS	161	88	1.4		ABLED/3NM	98	N/A	0.00	
/3MT1/W	153	N/A			A/3ULEDS4/WW/W	161	88	1.4			401	106		
	153		0.88							ABLED2X4			2.5	
V3MT2/B		N/A	1.79		A1000TLL/T5	206, 207	N/A	N/A		ABLED2X4/DD	401	106	2.5	
V3MT2/SS	153	N/A	1.79		A100GC	292	N/A	1.5		ABLED2X4/DD/M3	401	106	3.09	
V3MT2/W	153	N/A	1.79		A100GC/PC	292	N/A	1.5		ABLED2X4/DD/MWS	401	106	2.54	
V3MTA/B	155	N/A	0.07		A100PC	292	N/A	0.6		ABLED2X4/DD/MWS/M	3 401	106	3.13	
V3MTA/SS	155	N/A	0.07		A100POLY	293	N/A	0.6		ABLED2X4/M3	401	106	3.09	
V3MTA/W	155	N/A	0.07		A100POLY/PC	293	N/A	0.6		ABLED2X4/MWS	401	106	2.54	
V3MTBC/B	154	N/A	0.06		A250TLL/T5	206, 207	N/A	N/A		ABLED2X4/MWS/M3	401	106	3.13	
V3MTBC/SS	154	N/A	0.06		A500TLL/T5	206, 207	N/A	N/A		ABLED2X4/OCTO	401	106	2.5	
V3MTBC/W	154	N/A	0.06		AACQE27WL/PIR/SS	227	N/A	1.77		ABLED2X4/OCTO/M3	401	106	3.09	
V3MTDE/B	154	N/A	0.01		AACQE27WL/SS	227	N/A	1.77		ABLED2X5	401	105	3	
/3MTDE/SS	154	N/A	0.01		AADLED/100/CW	196	80	N/A		ABLED2X5/DD	401	105	3	
/3MTDE/W	154	N/A	0.01		AADLED/100/RGB	196	N/A	N/A		ABLED2X5/DD/M3	401	105	3.59	
V3MTFC/B	155	N/A	0.08		AADLED/100/WW	196	75	N/A		ABLED2X5/DD/MWS	401	105	3.04	
V3MTFC/SS	155	N/A	0.08		AADLED/1000/CW	196	80	N/A		ABLED2X5/DD/MWS/M	•	105	3.62	
/3MTFC/W	155	N/A	0.08		AADLED/1000/RGB	196	N/A	N/A		ABLED2X5/M3	401	105	3.59	
/3MTLC/PI/B	155	N/A	0.15		AADLED/1000/WW	196	75	N/A		ABLED2X5/MWS	401	105	3.04	
V3MTLC/PI/SS	155	N/A	0.15		AADLED/2000/CW	196	80	N/A		ABLED2X5/MWS/M3	401	105	3.62	
/3MTLC/PI/W	155	N/A	0.15		AADLED/2000/RGB	196	N/A	N/A		ABLED2X5/OCTO	401	105	3	
V3MTLC/PO/B	155	N/A	0.15		AADLED/2000/WW	196	75	N/A		ABLED2X5/OCTO/M3	401	105	3.59	
/3MTLC/PO/SS	155	N/A	0.15		AADLED/300/CW	196	80	N/A		ABLED2X6	401	94	3.15	
V3MTLC/PO/W	155	N/A	0.15			196	N/A	N/A			401	94		
					AADLED/300/RGB					ABLED2X6/M3			3.74	
V3MTLE/PL/B	154	N/A	0.05		AADLED/300/WW	196	75	N/A		ABLED2X6/MWS	401	94	3.19	
V3MTLE/PL/SS	154	N/A	0.05		AADLED/500/CW	196	80	N/A		ABLED2X6/MWS/M3	401	94	3.77	
V3MTLE/PL/W	154	N/A	0.05		AADLED/500/RGB	196	N/A	N/A		ABLED2X6/OCTO	401	94	3.15	
/3MTLE/PR/B	154	N/A	0.05		AADLED/500/WW	196	75	N/A		ABLED2X6/OCTO/M3	401	94	3.74	
/3MTLE/PR/SS	154	N/A	0.05		AADLED/5000/CW	196	80	N/A		ABLED4	401	116	2.3	
V3MTLE/PR/W	154	N/A	0.05		AADLED/5000/RGB	196	N/A	N/A		ABLED4/DD	401	116	2.3	
V3MTSC/B	154	N/A	0.09		AADLED/5000/WW	196	75	N/A		ABLED4/DD/M3	401	116	2.89	
V3MTSC/SS	154	N/A	0.09		AAE27045/BL	336	N/A	2.2		ABLED4/DD/MWS	401	116	2.34	
	154	N/A	0.09		AAE27075/BL	336	N/A	3.04		ABLED4/DD/MWS/M3	401	116	3.29	
V3MTSC/W														
A/3MTSK	155	N/A	0.05		AAE27100/BL	336	N/A	3.69		ABLED4/M3	401	116	2.89	
A/3MTTC/PI/B	155	N/A	0.25		AALED1/BV	280	89	0.56		ABLED4/MWS	401	116	2.34	
A/3MTTC/PI/SS	155	N/A	0.25		AALED1/BV/PC	280	89	0.66		ABLED4/MWS/M3	401	116	3.29	
A/3MTTC/PI/W	155	N/A	0.25		AALED1/WV	280	89	0.56		ABLED4/OCTO	401	116	2.3	
A/3MTTC/PO/B	155	N/A	0.25		AALED1/WV/PC	280	89	0.66		ABLED4/OCTO/M3	401	116	2.89	
V/3MTTC/PO/SS	155	N/A	0.25		AALED2/BV	280	87	0.96		ABLED5	401	109	2.8	
V3MTTC/PO/W	155	N/A	0.25		AALED2/BV/M3	280	87	1.29		ABLED5/DD	401	109	2.8	
V3MTXC/B	154	N/A	0.3		AALED2/BV/M3/PC	280	87	1.39		ABLED5/DD/M3	401	109	3.39	
V3MTXC/SS	154	N/A	0.3		AALED2/BV/MWS	280	87	1.11		ABLED5/DD/MWS	401	109	2.84	
		N/A	0.3							ABLED5/DD/MWS/M3				
/3MTXC/W	154				AALED2/BV/MWS/M3	280	87	1.44			401	109	3.79	
V3ULEDS0/CW/B	157	69	0.37		AALED2/BV/PC	280	87	1.06		ABLED5/M3	401	109	3.39	
V3ULEDS0/CW/SS	157	69	0.37		AALED2/WV	280	87	0.96		ABLED5/MWS	401	109	2.84	
V3ULEDS0/CW/W	157	69	0.37		AALED2/WV/M3	280	87	1.29		ABLED5/MWS/M3	401	109	3.79	
/3ULEDS0/WW/B	157	63	0.37		AALED2/WV/M3/PC	280	87	1.39		ABLED5/OCTO	401	109	2.8	
/3ULEDS0/WW/SS	157	63	0.37		AALED2/WV/MWS	280	87	1.11		ABLED5/OCTO/M3	401	109	3.39	
/3ULEDS0/WW/W	157	63	0.37		AALED2/WV/MWS/M3		87	1.44		ABLED6	401	100	2.95	
/3ULEDS1/B	158		0.6		AALED2/WV/PC	280	87	1.06		ABLED6/DD	401	100	2.95	
										ABLED6/DD/M3				
V3ULEDS1/SS	158	63	0.6		AALU/AP/CO	188	N/A	0.13			401	100	3.54	
V3ULEDS1/W	158		0.6		AALU/RP/CO	188	N/A	0.14		ABLED6/DD/MWS	401	100	2.99	
/3ULEDS1/WW/B	158	63	0.6		AALU/SP/CO	188	N/A	0.14		ABLED6/DD/MWS/M3	401	100	3.57	
V3ULEDS1/WW/SS	158	63	0.6		AARG/GIM/CW/W	93	92	0.1		ABLED6/M3	401	100	3.54	
/3ULEDS1/WW/W	158	63	0.6		AARG/GIM/WW/W	93	80	0.1		ABLED6/MWS	401	100	2.99	
/3ULEDS2/B	159	93	0.8		AARGD/CW	92	87	0.11		ABLED6/MWS/M3	401	100	3.57	
/3ULEDS2/SS	159	93	0.8		AARGD/IP65BEZ/BL	92	N/A	0.01		ABLED6/OCTO	401	100	2.95	
/3ULEDS2/W	159		0.8		AARGD/IP65BEZ/CH	92	N/A	0.01		ABLED6/OCTO/M3	401	100	3.54	
	159	86	0.8							ABLFLED/SS				
/3ULEDS2/WW/B					AARGD/IP65BEZ/SC	92	N/A	0.01			300	23	1.28	
/3ULEDS2/WW/SS	159		0.8		AARGD/WW	92	85	0.11		ABOLED/100/CW	194	93	N/A	
/3ULEDS2/WW/W	159	86	0.8		AARLED/WL	236	58	0.72		ABOLED/100/RGB	194	N/A	N/A	
/3ULEDS3/B	160	88	1.22		AARLED/WL/PIR	236	58	0.73		ABOLED/100/RGBW	194	N/A	N/A	
/3ULEDS3/SS	160	88	1.22		AARLEDB/060	322	58	1.26		ABOLED/100/TW	194	N/A	N/A	
/3ULEDS3/W	160	88	1.22		AARLEDB/100	322	58	1.8		ABOLED/100/WW	194	87	N/A	
/3ULEDS3/WW/B	160	78	1.22		AAROLED	174	75	3.53		ABOLED/1000/CW	194	93	N/A	
/3ULEDS3/WW/SS	160		1.22			127	N/A	0.26		ABOLED/1000/RGB	194	N/A		
					ABD/CH								N/A	
/3ULEDS3/WW/W	160	78	1.22		ABD/SC	127	N/A	0.26		ABOLED/1000/RGBW	194	N/A	N/A	

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Product Code	Page	Lm/W	Kg	Trade Prod	ct Code	e Page	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trade
ABOLED/1000/TW	194	N/A	N/A	ACLED	300/WW	198	73	N/A		ACONLED/30/RGB	204	N/A	3.91	
ABOLED/1000/WW	194	87	N/A		500/CW	198	76	N/A		ACONLED/30/RGB/PS		N/A	0.5	
ABOLED/2000/CW	194	93	N/A		500/RGB	198	N/A	N/A		ACONLED/50/CW	204		8.23	
ABOLED/2000/GW	194	N/A	N/A		500/WW	198	73	N/A		ACONLED/50/PS	204		0.13	
ABOLED/2000/RGBW	194	N/A	N/A			198	76	N/A			204	N/A	8.23	
		N/A			5000/CW	198				ACONLED/50/WW				
ABOLED/2000/TW	194		N/A		5000/RGB		N/A	N/A		ACONLED/CL/CW	204		N/A	
ABOLED/2000/WW	194	87	N/A		5000/WW	198	73	N/A		ACONLED/CL/PS	204		N/A	
ABOLED/300/CW	194	93	N/A	ACLEDA		193, 195, 197, 199	N/A	N/A		ACONLED/CL/RGB	204	N/A	N/A	
ABOLED/300/RGB	194	N/A	N/A	ACLEDA		193, 195, 197, 199	N/A	N/A		ACONLED/CL/RGB/PS			N/A	
ABOLED/300/RGBW	194	N/A	N/A	ACLED/A		193, 195, 197, 199	N/A	0.22		ACONLED/CL/WW	204	N/A	N/A	
ABOLED/300/TW	194	N/A	N/A	ACLEDM	L '	193, 195, 197, 199	N/A	N/A		ACONLED/CLIPS	204	N/A	0.06	
ABOLED/300/WW	194	87	N/A	ACLED/	L/RGB '	193, 195, 197, 199	N/A	N/A		ACONLED/END	204	N/A	0.02	
ABOLED/500/CW	194	93	N/A	ACLEDIF	C/TOUCH '	193, 195, 197, 199	N/A	0.46		ACONLED/FBEND	204	N/A	0.05	
ABOLED/500/RGB	194	N/A	N/A	ACLED/	· ·	193, 195, 197, 199	N/A	N/A		ACONLED/RGB/CLIPS	3 204	N/A	0.05	
ABOLED/500/RGBW	194	N/A	N/A	ACLED/2	•	193, 195, 197, 199	N/A	N/A		ACONLED/RGB/END	204	N/A	0.02	
ABOLED/500/TW	194	N/A	N/A	ACLED1	OLL '	193, 195, 197, 199	N/A	N/A		ACONLED/RGB/FBEN	ID 204	N/A	0.06	
ABOLED/500/WW	194	87	N/A	ACLED1	00LL -	193, 195, 197, 199	N/A	N/A		ACONLED/SILG	204	N/A	0.06	
ABOLED/5000/CW	194	93	N/A	ACLED5	OLL 1	193, 195, 197, 199	N/A	N/A		ACP/CH	130	N/A	0.2	
ABOLED/5000/RGB	194	N/A	N/A	ACLLE		230	45	0.26		ACP/SC	130		0.2	
ABOLED/5000/RGBW	194	N/A	N/A	ACLLE		230	45	0.26		ACP/SC ACP/W	130	N/A	0.2	
	194	N/A												
ABOLED/5000/TW		_	N/A		LED/GR	228	31	0.26		ACRESLED2X4	415		4.8	
ABOLED/5000/WW	194	87	N/A	ACLPV		228	31	0.26		ACRESLED2X4/DA/M			7.78	
	93, 195	N/A	N/A	ACO2X	15	179	N/A	0.76		ACRESLED2X4/DD	415		4.8	
ABOLED/ML/RGBW 1	93, 195	N/A	N/A	ACOG	10S/B	148	N/A	0.23		ACRESLED2X4/DD/M	3 415	107	7.78	
ABOLED/ML/TW 1	93, 195	N/A	N/A	ACOG	10S/SS	148	N/A	0.23		ACRESLED2X4/M3	415	107	7.78	
ABRLED/WL/CW	256	57	0.9	ACOG	10S/W	148	N/A	0.23		ACSQLEDWL	294	22	0.62	
ABRLED/WL/WW	256	56	0.9	ACOLE	01/CW	81	100	0.4		ACTSLED/B/3NM	463	N/A	1.3	
ABRLEDB/650/CW	326	57	2.18	ACOLE	01/CW/DD	81	100	0.4		ACTSLED/W/3NM	463	N/A	1.3	
ABRLEDB/650/WW	326	56	2.18		01/CW/DD		100	0.44		AD16/BP/HF	262		1	
ABROLED	421	105	3.3		01/CW/M3	81	100	0.44		AD16/WO/HF	262		1	
	89	80	0.08										1	
ABXLED100/CW					01/CW/OC		100	0.4		AD16/WP/HF	262			
ABXLED100/WW	89	74	80.0		01/CW/OC		100	0.44		AD28/BP/HF	262		1.8	
ABXLED110/CW	89	84	0.09	ACOLE	01/WW	81	101	0.4		AD28/BP/HF/M3	262		2.5	
ABXLED110/WW	89	82	0.09	ACOLE	01/WW/DE	81	101	0.4		AD28/WO/HF	262	N/A	1.8	
ABXLED140/CW	89	73	0.16	ACOLE)1/WW/DE	D/M3 81	101	0.44		AD28/WO/HF/M3	262	N/A	2.5	
ABXLED140/WW	89	71	0.16	ACOLE	01/WW/M3	81	101	0.44		AD28/WP/HF	262	N/A	1.8	
ABXLED190/CW	89	87	0.25	ACOLE	01/WW/OC	CTO 81	101	0.4		AD28/WP/HF/M3	262	N/A	2.5	
ABXLED190/WW	89	85	0.25	ACOLE	01/WW/OC	CTO/M3 81	101	0.44		AD30W/12V	184	N/A	N/A	
ACAL/E27	303	N/A	2.08	ACOLE	02/CW	81	92	0.57		AD3W/350	185	N/A	N/A	
ACALED10	372	94	0.29	ACOLE	02/CW/DD	81	92	0.57		AD3W/700	185	N/A	N/A	
ACALED10/PIR	372	94	0.34		02/CW/DD	/M3 81	92	1.16		AD75W/12V	184		N/A	
ACALED10/WW	372	89	0.29		02/CW/M3	81	92	1.16		AD9W/350	185		N/A	
ACALED10/WW/PIR	372	89									186		0.36	
		_	0.34		02/CW/OC			0.57		ADDIM100W/12V				
ACALED20	372	96	0.64		02/CW/OC		92	1.16		ADDIM50W/12V	186		0.2	
ACALED20/PIR	372	96	0.79	ACOLE		81	94	0.57		ADDIM75W/12V	186		N/A	
ACALED20/WW	372	90	0.64	ACOLE	02/WW/DE	81	94	0.57		ADELED	432	95	8.81	
ACALED20/WW/PIR	372	90	0.79	ACOLE)2/WW/DE	D/M3 81	94	1.16		ADELED/DD	432	95	8.81	
ACALED30	372	97	0.68	ACOLE	02/WW/M3	81	94	1.16		ADELED/DD/M3	432	95	11.81	
ACALED30/PIR	372	97	0.83	ACOLE)2/WW/OC	CTO 81	94	0.57		ADELED/M3	171	95	11.81	
ACALED30/WW	372	97	0.68	ACOLE)2/WW/OC	CTO/M3 81	94	1.16		ADEPLED	171	85	2.04	
ACALED30/WW/PIR	372	97	0.83	ACOLE		82		0.57		ADEPLED/HP	171	90	2.04	
ACALED50	372	99	1.06		03/CW/DD		112	0.57		ADGU10S/B	149		0.11	
ACALED50/PIR	372	99	1.2		03/CW/DD			1.16		ADGU10S/SS	149		0.11	
ACALED50/FIX	372	94	1.06		03/CW/M3	7NIS 62 82	112	1.16		ADGU10S/W	149		0.11	
		94								ADHBLED/PC/BC			0.11	
ACALED50/WW/PIR	372	-	1.2		03/CW/OC			0.57			172, 385			
ACDLEDX1	94	45	0.27		03/CW/OC			1.16		ADHBLED/SK	172, 385		0.2	
ACDLEDX2	94	45	0.67	ACOLE		82	106	0.57		ADHBLED1/ALU	172, 385		2.76	
ACELED/3M/ST	448	N/A	0.9	ACOLE	03/WW/DE	82	106	0.57		ADHBLED1/ALU/DD	172, 385		2.76	
ACFLP/3 10	03, 473	N/A	8.0	ACOLE	03/WW/DE)/M3 82	106	1.16		ADHBLED1/PC	172, 385	116	3.01	
ACLED/100/CW	198	76	N/A	ACOLE	03/WW/M3	82	106	1.16		ADHBLED1/PC/DD	172, 385	116	3.01	
ACLED/100/RGB	198	N/A	N/A	ACOLE	03/WW/OC	CTO 82	106	0.57		ADHBLED2/ALU	172, 385	109	2.88	
ACLED/100/WW	198	73	N/A		03/WW/OC		106	1.16		ADHBLED2/ALU/DD	172, 385		2.88	
ACLED/1000/CW	198	76	N/A		DWW/CW	83	70	0.45		ADHBLED2/PC	172, 385		3.13	
ACLED/1000/GW	198	N/A	N/A		DWW/CW/I		70	0.45		ADHBLED2/PC/DD	172, 385		3.13	
	198	73								ADI28/HF			2.18	
ACLED/1000/WW			N/A		DWW/CW/			0.45			279			
ACLED/2000/CW	198	76	N/A		WW/WW	83	66	0.45		ADI28/HF/M3	279		2.18	
ACLED/2000/RGB	198	N/A	N/A	ACOLE)WW/WW			0.45			3, 278, 279		N/A	
ACLED/2000/WW	198	73	N/A	ACOLE	ww/ww	OCTO 83	66	0.45		ADI28BZ/CH 218	3, 278, 279	N/A	N/A	
ACLED/300/CW	198	76	N/A	ACOLO	ED1000	359	133	29.5		ADI28BZ/SG 218	3, 278, 279	N/A	N/A	
		N/A	N/A	ACOLO						ADILED1	278	67	0.69	



Product Code	Page	Lm/W	Kg	Trade	Product Cod	le Pag	e Lm/V	/ Kg	Trade	Product Code	Page	Lm/W	Kg	Trad
ADILED2	278	61	1.13		ADSILED/1BZ/GR	215-217,275-2	77 N/A	0.14		AECLED/WW/SC/MWS	268	82-97	1.69	
ADILED2/M3	278	61	1.56		ADSILED/2BZ/CH	215-217,275-2		0.14		AECLED/WW/SC/MWS/M3		82-97	4.19	
ADILED2/MWS	278	61	1.23		ADSILED/2BZ/GR	215-217,275-2		0.19		AECLED/WW/W	268	82-97	1.59	
ADILED2/MWS/M3	278	61	1.5		ADSILED1		76 73	0.19		AECLED/WW/W/DD	268	82-97	1.59	
ADILED2/MWS/M3/CF	278	61					75 82-92	-			268	82-97	4.09	
	184	N/A	1.5		ADSILED1/CCT					AECLEDWW/W/DD/M3				
ADK120W/24V			0.4		ADSILED1/WW		76 68	0.22		AECLED/WW/M/DD/MWS	268	82-97	1.69	
DK12W/700	185	N/A	0.06		ADSILED2		76 79	0.29		AECLEDWWW/DD/MWS/MX		82-97	4.19	
ADK15W/24V	184	N/A	0.06		ADSILED2/CCT	-	75 79-83			AECLED/WW/W/M3	268	82-97	4.09	
ADK200W/24V	184	N/A	1		ADSILED2/CCT/N		75 79-83			AECLED/WW/W/MWS	268	82-97	1.69	
ADK20W/350	185	N/A	0.07		ADSILED2/CCT/N	MWS 2	75 79-83	1.15		AECLED/WW/W/MWS/M3	268	82-97	4.19	
ADK20W/700	185	N/A	0.07		ADSILED2/CCT/N	//WS/M3 2	75 79-83	1.23		AEFRD/CH	117	N/A	0.18	
ADK320W/24V	184	N/A	1.8		ADSILED2/M3	2	76 79	1.28		AEFRD/IP65/CH	119	N/A	0.19	
ADK60W/24V	184	N/A	0.31		ADSILED2/MWS	2	76 79	1.13		AEFRD/IP65/MW	119	N/A	0.19	
ADLC/0	131	N/A	N/A		ADSILED2/MWS/	M3 2	76 79	1.43		AEFRD/IP65/SC	119	N/A	0.19	
ADLC/1	131	N/A	N/A		ADSILED2/MWS/	M3/CF 2	76 79	1.43		AEFRD/MW	117	N/A	0.18	
ADLC/2	131	N/A	N/A		ADSILED2/WW	2	76 75	0.22		AEFRD/SC	117	N/A	0.18	
ADLC/4	131	N/A	N/A		ADSILED2/WW/M	13 2	76 75	0.29		AEFRG/CH	118	N/A	0.19	
ADLC/6	131	N/A	N/A		ADSILED2/WW/M		76 75	1.28		AEFRG/MW	118	N/A	0.19	
ADLC/7	131	N/A	N/A		ADSILED2/WW/M		76 75				118	N/A		
	131							1.13		AEFRG/SC			0.19	
ADLC/8		N/A	N/A		ADSILED2/WW/MV		76 75	1.43		AEFRISD	119	N/A	0.02	
ADLC/9	131	N/A	N/A		ADU50		16 N/A	0.71		AEFRISG	118	N/A	0.02	
ADLED1/BV	281	110	0.5		ADULED/W	17		0.49		AELLED/WL/CW	175	77	1.27	
ADLED1/BV/PC	281	110	0.6		ADULEDB/080	3:	28 90	3.7		AELLED/WL/WW	175	64	1.27	
ADLED1/WV	281	110	0.5		ADULEDB/080/PI	R 3	28 90	3.7		AENLED/3M/SG	453	N/A	0.7	
ADLED1/WV/PC	281	110	0.6		ADVRL	2:	21 N/A	1.12		AENLED/3M/W	453	N/A	0.7	
ADLED2/BV	281	86	0.91		ADVSS	2:	22 N/A	0.6		AENLED/3M/W/ST	453	N/A	0.7	
ADLED2/BV/M3	281	86	1.2		AE3LED/3M/SI	4	56 N/A	1.36		AENLED/LI/3M/ST	452	N/A	0.59	
ADLED2/BV/M3/PC	281	86	1.3		AE3LED/3M/W		56 N/A	1.36		AEQTCC/600	422	N/A	1.25	
ADLED2/BV/MWS	281	86	1.02		AE3LED/3M/W/S		56 N/A	1.36		AERMLED/SK 422, 42		N/A	6.3	
ADLED2/BV/MWS/M3	281	86	1.35		AE3LED/ALAR	4		N/A		AERMLED2/120/CW	429	100	5.5	
DLED2/BV/PC	281	86	0.6		AE3LED/L/AD		56 N/A	N/A		AERMLED2/120/CW/DD	429	100	5.55	
ADLED2/BZ/EYE/B	281	N/A	0.2		AE3LED/L/AU	4	66 N/A	N/A		AERMLED2/120/DL	429	97	5.5	
DLED2/BZ/EYE/W	281	N/A	0.2		AECLED/CH	20	88 90-10	1 1.59		AERMLED2/120/DL/DD	429	97	5.55	
ADLED2/BZ/GRILL/B	281	N/A	0.193		AECLED/CH/DD	20	88 90-10	1 1.59		AERMLED2/120/WW	429	93	5.5	
ADLED2/BZ/GRILL/W	281	N/A	0.193		AECLED/CH/DD/	M3 20	8 90-10	1 4.09		AERMLED2/120/WW/DD	429	93	5.55	
ADLED2/WV	281	86	0.91		AECLED/CH/DD/	MWS 20	8 90-10	1 1.69		AERMLED2/30/CW	428	104	5.5	
ADLED2/WV/M3	281	86	1.2		AECLED/CH/DD/		8 90-10			AERMLED2/30/CW/DD	428	104	5.55	
ADLED2/WV/M3/PC	281	86	1.3		AECLED/CH/M3		88 90-10			AERMLED2/30/CW/OCTO	428	104	5.5	
	281	86					58 90-10				428	107	3.1	
ADLED2/WV/MWS			1.02		AECLED/CH/MW					AERMLED2/30/DL				
ADLED2/WV/MWS/M3	281	86	1.35		AECLED/CH/MW		90-10			AERMLED2/30/DL/DD	428	107	3.15	
ADLED2/WV/PC	281	86	0.6		AECLED/SC	20	90-10	1 1.59		AERMLED2/30/DL/OCTO	428	107	3.1	
ADM50GU10	247	N/A	1.16		AECLED/SC/DD	20	90-10	1 1.59		AERMLED2/30/WW	428	103	3.1	
ADM50GU10/SG	247	N/A	1.16		AECLED/SC/DD/I	M3 20	88 90-10	4.09		AERMLED2/30/WW/DD	428	103	3.15	
ADMLED1/GR/CW	259	92	1.55		AECLED/SC/DD/I	MWS 20	88 90-10	1 1.69		AERMLED2/30/WW/OCTO	428	103	3.1	
ADMLED2/GR/CW	259	85	1.56		AECLED/SC/DD/M	NS/M3 20	8 90-10	1 4.19		AERMLED2/60/CW	426	107	2.07	
ADOCLED/WL	238	76	1.2		AECLED/SC/M3	20	8 90-10	1 4.09		AERMLED2/60/CW/DD	426	107	2.07	
ADOCLED/WL/PIR	238	76	1.22		AECLED/SC/MW	s 20	8 90-10			AERMLED2/60/CW/OCTO	426	107	2.07	
ADOLEDWL	261	50	2.5		AECLED/SC/MW		30-10 38 90-10			AERMLED2/60/DL	426	102	2.07	
	262						38 90-10			AERMLED2/60/DL/DD	426	102	2.07	
ADOLEDWL/HP			3.71		AECLED/W									
DP2	391	N/A	0.88		AECLED/W/DD		90-10			AERMLED2/60/DL/OCTO	426	102	2.07	
ADP2X2	391	N/A	1.32		AECLED/W/DD/M		88 90-10			AERMLED2/60/WW	426	100	2.07	
DP2X4	391	N/A	2.47		AECLED/W/DD/M	IWS 20	90-10	1 1.69		AERMLED2/60/WW/DD	426	100	2.07	
DP2X5	391	N/A	3.02		AECLED/W/DD/M	IWS/M3 20	88 90-10	4.19		AERMLED2/60/WW/OCTO	426	100	2.07	
ADP4	391	N/A	1.72		AECLED/W/M3	20	90-10	1 4.09		AERMLED3/60/CW	424	102	2.52	
ADP5	391	N/A	2.13		AECLED/W/MWS	20	88 90-10	1 1.69		AERMLED3/60/CW/DD	424	102	2.52	
DRLEDP/WW/B	164	61	1.62		AECLED/W/MWS		8 90-10			AERMLED3/60/CW/OCTO	424	102	2.52	
DRLEDP/WW/W	164	61	1.62		AECLED/WW/CH		88 82-97			AERMLED3/60/DL	424	101	2.52	
ADSIHLED1	277	86	0.22		AECLED/WW/CH/E		88 82-97			AERMLED3/60/DL/DD	424	101	2.52	
	277	92	0.22							AERMLED3/60/DL/OCTO	424	101	2.52	
DSIHLED1/WW					AECLED/WW/CH/D									
DSIHLED2	277	87	0.29		AECLED/WW/CH/D		82-97			AERMLED3/60/WW	424	99	2.52	
DSIHLED2/M3	277	87	1.28		AECLED/WW/CH/DE					AERMLED3/60/WW/DD	424	99	2.52	
DSIHLED2/MWS	277	87	1.13		AECLED/WW/CH	/M3 20	82-97			AERMLED3/60/WW/OCTO	424	99	2.52	
DSIHLED2/MWS/M3	277	87	1.43		AECLED/WW/CH	/MWS 20	82-97	1.69		AERMLED3/HO/60/CW	424	125	2.52	
DSIHLED2/MWS/M3/C	F 277	87	1.43		AECLED/WW/CH	/MWS/M3 2	82-97	4.19		AERMLED3/HO/60/CW/DD	424	125	2.52	
DSIHLED2/WW	277	82	0.22		AECLED/WW/SC		82-97	1.59		AERMLED3/HO/60/CW/OCTO	424	125	2.52	
DSIHLED2/WW/M3	277	82	0.29		AECLED/WW/SC/D		82-97			AERMLED3/HO/60/DL	424	129	2.52	
DSIHLED2WW/MWS	277		1.28		AECLED/WW/SC/D		88 82-97			AERMLED3/HO/60/DL/D		129	2.52	
													2.52	
DSIHLED2WW/MWS/M3	277	82	1.13		AECLED/WW/SC/D		82-97			AERMLED3/HO/60/DL/OCTO		129		
DSIHLED2WW/MWS/M3/C		82	1.43		AECLED/WW/SC/DE		82-97			AERMLED3/HO/60/WW	424	125	2.52	
DSILED/1BZ/CH 215-21	7,275-277	N/A	0.14		AECLED/WW/SC/N	vi3 20	82-97	4.09		AERMLED3/HO/60/WW/DD	424	125	2.52	

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Product Code	Page	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trade
AERMLED3/HO/60WW/OCTO) 424	125	2.52		AGDLED/DD/MWS/M3	434	89	5.86		AKRLED/1000/RGB	192	N/A	N/A	
AFAFC/OAK	181	N/A	0.14		AGDLED/M3	434	89	5.82		AKRLED/1000/RGBW	192	N/A	N/A	
AFAFC/W	181	N/A	0.33		AGDLED/MWS	434	89	5.27		AKRLED/1000/TW	192	N/A	N/A	
AFAFC/WAL	181	N/A	0.14		AGDLED/MWS/M3	434	89	5.86		AKRLED/1000/WW	192	88	N/A	
AFALED/3NM/ST/IP65 10	02, 471	N/A	0.58		AGDLED/WLA	434	N/A	N/A		AKRLED/2000/CW	192	99	N/A	
AFALED/3NM/ST/IP65/B 1	102,471	N/A	0.58		AGELED2X4	413	108	4.82		AKRLED/2000/RGB	192	N/A	N/A	
AFAMIWL/BASE	180	76	0.44		AGELED2X4/DD	413	108	4.82		AKRLED/2000/RGBW	192	N/A	N/A	
AFBL/EYE	298	N/A	0.1		AGELED2X4/DD/M3	413	108	7.8		AKRLED/2000/TW	192	N/A	N/A	
AFBL/GRILL	298	N/A	0.16		AGELED2X4/M3	413	108	7.8		AKRLED/2000/WW	192	88	N/A	
AFBLLED	298	66	0.84		AGELED2X5	413	98	5.76		AKRLED/300/CW	192	99	N/A	
AFGS/GU10LED	344	N/A	0.38		AGELED2X5/DD	413	98	5.76			192	N/A	N/A	
	388	99								AKRLED/300/RGB				
AFLLED2			4.82		AGELED2X5/DD/M3	413	98	8.74		AKRLED/300/RGBW	192	N/A	N/A	
AFLLED2/DD	388	99	4.82		AGELED2X5/M3	413	98	8.74		AKRLED/300/TW	192	N/A	N/A	
AFLLED2/DD/DM3	388	99	5.42		AGLED/3M	445	N/A	0.71		AKRLED/300/WW	192	88	N/A	
AFLLED2/DD/M3	388	99	5.42		AGLED/KIT	445	N/A	N/A		AKRLED/500/CW	192	99	N/A	
AFLLED2/DD/MWS	388	99	5.08		AGLED/WL	255	18	1.02		AKRLED/500/RGB	192	N/A	N/A	
AFLLED2/DD/MWS/DM3	388	99	5.68		AGLEDB/700	325	18	3.98		AKRLED/500/RGBW	192	N/A	N/A	
AFLLED2/DD/MWS/M3	388	99	5.68		AGPL/DG1/W	84	N/A	N/A		AKRLED/500/TW	192	N/A	N/A	
AFLLED2/DD/MWS/SM3	388	99	5.68		AGPL/DG3/W	84	N/A	N/A		AKRLED/500/WW	192	88	N/A	
AFLLED2/DD/SM3	388	99	5.42		AGYSLED/1	104	77	0.75		AKRLED/5000/CW	192	99	N/A	
AFLLED2/DM3	388	99	5.42		AGYSLED/2	104	82	1.18		AKRLED/5000/RGB	192	N/A	N/A	
AFLLED2/M3	388	99	5.42		AHARLED/3M/ST	459	N/A	0.81		AKRLED/5000/RGBW	192	N/A	N/A	
AFLLED2/MWS	388	99	5.08		AHARLED/ALAR	459	N/A	N/A		AKRLED/5000/TW	192	N/A	N/A	
AFLLED2/MWS/DM3	388	99	5.68		AHARLED/L/AD	459	N/A	N/A		AKRLED/5000/WW	192	N/A	N/A	
AFLLED2/MWS/M3	388	99	5.68		AHARLED/L/AU	459	N/A	N/A		AKTLED/3M/ST	446	N/A	0.5	
AFLLED2/MWS/M3	388	99	5.68		AHELED/CB	287	70	0.38		AKTLED/3M/ST ALE27/WL/BL	310	N/A	2.15	
		99											2.13	
AFLLED2/SM3	388		5.42		AHELED/CB/PIR	287	72	0.42		ALE27/WL/SS	309	N/A		
AFRLED/M3/ST	88	N/A	0.95		AHELED/CW	287	70	0.38		ALED/6W/G125/2500K		N/A	0.1	
AFRLED125/CW	88	62	0.26		AHELED/CW/PIR	287	72	0.42		ALED/6W/ST64/2500K		N/A	0.05	
AFRLED125/WW	88	59	0.26		AHELED/EB	287	38	0.4		ALEDCP/CH	49	N/A	0.26	
AFRLED170/CW	88	70	0.34		AHELED/EB/PIR	287	38	0.44		ALEDCP/MW	49	N/A	0.23	
AFRLED170/WW	88	61	0.34		AHELED/EW	287	38	0.4		ALEDCP/SC	49	N/A	0.23	
AFRLED230/CW	88	64	0.7		AHELED/EW/PIR	287	38	0.44		ALEDKL/120	207	100	0.79	
AFRLED230/WW	88	61	0.7		AHELED/OB	288	63	0.29		ALEDKL/120/WW	207	95	0.79	
AFRWOLED/220	351	53	4.5		AHELED/OB/PIR	288	66	0.31		ALEDKL/30	207	89	0.31	
AFULED/GR	231	74	0.59		AHELED/OW	288	63	0.29		ALEDKL/30/WW	207	89	0.31	
AFULED/W	231	74	0.59		AHELED/OW/PIR	288	66	0.31		ALEDKL/60	207	103	0.44	
AFWLED/SC	231	46	0.43		AIGLED/CW	95	31	0.07		ALEDKL/60/WW	207	87	0.44	
AFWLED/W	182	46	0.43		AIGLED/CW/W	95	31	0.07		ALEDKL/90	207	111	0.63	
AG8/L/AD	455	N/A	N/A		AIGLED/WW	95	28	0.07		ALEDKL/90/WW	207	92	0.63	
AG8/L/AL	455	N/A	N/A		AIGLED/WW/W	95	28	0.07		ALEOLED/CCT/045/GI		84-94	1.5	
	455	N/A				422	94			ALEOLED/CCT/075/GI	-	80-85	2	
AG8/L/AR	455		N/A		AIRMLED/CW			3.8					2.5	
AG8/L/AU		N/A	N/A		AIRMLED/CW/DD	422	94	3.8		ALEOLED/CCT/100/GF		80-85		
AGALED/1/CCT		98-103	1		AIRMLED/CW/OCTO	422	94	3.8		ALGU10/1	120	N/A	0.24	
AGALED/1/CCT/DD		98-103	1		AIRMLED/POD/3NM/S		N/A	0.95		ALGU10/1/MW	120	N/A	0.24	
AGALED/1/CCT/DD/M3			4.12		AIRMLED/POD/MWS	430	N/A	0.21		ALGU10/2	120	N/A	0.44	
AGALED/1/CCT/M3			4.12		AIRMLED/PRK 422,424,4	26,429,434	N/A	2.05		ALGU10/2/MW	120	N/A	0.44	
AGALED/1/CCT/OCTO	84	98-103	1		AIRMLED/SK	422	N/A	0.17		ALGU10/3	120	N/A	0.67	
AGALED/1/CCT/OCTO/M3	84	98-103	4.12		AIRMLED/SMF 422,	424, 426	N/A	4.28		ALGU10/3/MW	120	N/A	0.67	
AGALED/2/CCT	84	112	1		AIRMLED/WW	422	88	3.8		ALGU10S/B	151	N/A	0.13	
GALED/2/CCT/DD	84	112	1		AIRMLED/WW/DD	422	88	3.8		ALGU10S/SS	151	N/A	0.13	
AGALED/2/CCT/DD/M3	84	112	4.12		AIRMLED/WW/OCTO	422	88	3.8		ALGU10S/W	151	N/A	0.13	
AGALED/2/CCT/M3	84	112	4.12		AJALED	274	66	1.09		ALHL/BL	305	N/A	0.76	
AGALED/2/CCT/OCTO	84	112	1		AJALED/M3	274	66	1.54		ALHL/PC/BL	305	N/A	0.79	
AGALED/2/CCT/OCTO/M3	84	112	4.12		AJALED/MWS	274	66			ALHL/PC/WH	305	N/A	0.79	
								1.11					0.79	
AGALSQLED	232	30	0.72		AJALED/MWS/M3	274	66	1.56		ALHL/PIR/BL	305	N/A		
	13,273	93	1.28		AJALED/MWS/M3/CF	274	66	1.56		ALHL/PIR/WH	305	N/A	0.79	
	13,273	93	1.51		AJALEDBZ/CH	274	N/A	0.26		ALHL/WH	305	N/A	0.76	
	13,273	93	1.3		AJDLEDP/WW/B	166	73	0.48		ALHLLED/BL	304	53	0.65	
GAMLED/MWS/M3 2	13,273	93	1.53		AJDLEDP/WW/W	166	73	0.48		ALHLLED/PC/BL	304	53	0.68	
GAMLED/WW 2	13,273	86	1.28		AJSLEDP/WW/B	165	45	0.48		ALHLLED/PC/WH	304	53	0.68	
GAMLED/WW/M3 2	13,273	86	1.51		AJSLEDP/WW/W	165	45	0.48		ALHLLED/PIR/BL	304	53	0.68	
AGAMLED/WW/MWS 2	13,273	86	1.3		AKLED/B	234	60	0.75		ALHLLED/PIR/WH	304	53	0.68	
GAMLEDWW/MWS/M3 2		86	1.53		AKLED/SG	234	60	0.75		ALHLLED/WH	304	53	0.65	
	13,273	N/A	0.13		AKRLED/100/CW	192	99	N/A		ALIB/100E27	337	N/A	3	
AGDLED	434	89	5.23		AKRLED/100/CW	192	N/A			ALIBLED/BLU	296	24	0.43	
								N/A						
GDLED/BLA	434	N/A	N/A		AKRLED/100/RGBW	192	N/A	N/A		ALIBLED/WHI	296	63	0.43	
AGDLED/DD	434	89	5.23		AKRLED/100/TW	192	N/A	N/A		ALODLED/110/CW	90	68	0.105	
GDLED/DD/M3	434	89	5.82		AKRLED/100/WW	192	88	N/A		ALODLED/110/WW	90	62	0.105	
	434	89	5.27		AKRLED/1000/CW	192	99	N/A		ALODLED/150/CW	91	72	0.152	

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

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ALODLED/200/CW 91 73 0 ALODLED/250/CW 91 85 0 ALODLED/250/CW 91 85 0 ALODLED/75/CW 90 77 0 ALODLED/75/CW 90 77 0 ALODLED/95/CW 90 79 0 ALODLED/95/CW 90 79 0 ALODLED/95/CW 90 76 0 ALOTLED 433 88-103 3 ALOTLED/DD 433 88-103 3 ALOTLED/DD/M3 433 88-103 3 ALOTLED/DD/SM3 433 88-103 3 ALOTLED/DOYSM3 433 88-103 3 ALOTLED/OCTO 433 88-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 434 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 98-103 3 ALOTLED/OCTO/M3 437 98-103 3 ALOTLED/OCTO/M3 434 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 98-103 3 ALOTLED/OCTO/M3 437 98-103 3 ALOTLED/OCTO/M3 438 98-103 3 ALOTLED/OCTO/M3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244	3 5 5 5	ALWPLED/MWS ALWPLED/PC AM2LED/ASY/500 AM2LED/ASY/500/PC AM2LED/ASY/800 AM2LED/ASY/800/PC AMALED120/CCT AMALED20/CCT AMALED20/CCT	375 375 360 360 360 360	60 60 146	2 2.2 2.37	AMICG/SC AMICG/W	114 114	N/A	0.26	
ALODLED/200/CW 91 77 0 ALODLED/200/WW 91 73 0 ALODLED/250/CW 91 85 0 ALODLED/250/CW 91 85 0 ALODLED/250/WW 91 80 0 ALODLED/75/CW 90 77 0 ALODLED/75/CW 90 77 0 ALODLED/95/CW 90 79 0 ALODLED/95/CW 90 76 0 ALODLED/95/WW 90 76 0 ALOTLED 433 98-103 3 ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DO/TOM3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 434 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 98-103 3 ALOTLED/OCTO/M3 437 98-103 3 ALOTLED/OCTO/M3 434 98-103 3 ALOTLED/OCTO/M3 435 98-103 44 58-64 2 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 24	45 45 88 88 55 55 81 81 33 3 3 15	ALWPLED/PC AM2LED/ASY/500 AM2LED/ASY/500/PC AM2LED/ASY/800 AM2LED/ASY/800/PC AMALED120/CCT AMALED20/CCT	375 360 360 360	60 146	2.2	AMICG/W				
ALODLED/200/WW 91 85 60 ALODLED/250/CW 91 86 60 ALODLED/250/CW 91 80 77 00 ALODLED/75/CW 90 77 00 ALODLED/75/CW 90 77 00 ALODLED/75/CW 90 77 00 ALODLED/95/CW 90 79 00 ALODLED/95/CW 90 76 00 ALOTLED 433 98-103 3 ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DOTO 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/BOM3 434 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MWS/MS/SM3 244 58-64 2 ALUCLED/B/MWS/M	45 48 48 55 55 81 81 33 33 35 55	AM2LED/ASY/500/PC AM2LED/ASY/800 AM2LED/ASY/800/PC AMALED120/CCT AMALED20/CCT	360 360 360	146				N/A	0.26	
ALODLED/250/WW 91 80 0 ALODLED/75/CW 90 77 0 ALODLED/75/CW 90 77 0 ALODLED/75/WW 90 76 0 ALODLED/95/CW 90 79 0 ALODLED/95/WW 90 76 0 ALOTLED 433 98-103 3 ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 43-10 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244	88 55 55 81 81 83 3 3 55 55 55 55 55 55 55 55 55 55 55 5	AM2LED/ASY/800 AM2LED/ASY/800/PC AMALED120/CCT AMALED20/CCT	360	140		AMIFC/OAK	180	N/A	0.16	
ALODLED/75/CW 90 77 0 ALODLED/75/WW 90 76 0 ALODLED/95/CW 90 79 0 ALODLED/95/WW 90 76 0 ALOTLED 433 98-103 3 ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 43 98-103 3 ALOTLED/OCTO/M3 436 43-100 458-64 2 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 AL	55 55 81 81 3 3 3 5 5	AM2LED/ASY/800/PC AMALED120/CCT AMALED20/CCT		146	22.37	AMIFC/W	180	N/A	0.42	
ALODLED/75/WW 90 71 0 ALODLED/95/CW 90 79 0 ALODLED/95/CW 90 76 0 ALOTLED 433 98-103 3 ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/OTO 433 98-103 3 ALOTLED/OTO 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 43-10 ALUCLED/B/M3 445 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/M3/PC	55 81 81 3 3 3 95 55	AMALED120/CCT AMALED20/CCT	360	138	24.78	AMIFC/WAL	180	N/A	0.16	
ALODLED/95/CW 90 79 0 ALODLED/95/CW 90 76 0 ALOTLED 433 98-103 3 ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/SM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 435 98-103 3 ALOTLED/OCTO/M3 436 43-103 44 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MW	81 81 3 3 3 5 5 5 5	AMALED20/CCT		138	24.78	AMILLED4	412	93-89	1.86	
ALODLED/95/WW ALOTLED ALOTLED/DD ALOTLED/DD/M3 ALOTLED/DD/M3 ALOTLED/DD/M3 ALOTLED/DD/M3 ALOTLED/DD/M3 ALOTLED/DD/M3 ALOTLED/DD/M3 ALOTLED/DM3 ALOTLED/DM3 ALOTLED/M3 ALOTLED/M3 ALOTLED/M3 ALOTLED/OCTO ALOTLED/OCTO/M3 ALOTL	81 3 3 3 3 5 5 5 5		206	102-96	0.355	AMILLED5	412	79-76	2.47	
ALOTLED	3 3 15 5 5	AMALED50/CCT	206	97-91	0.131	AMLED/KIT/TUNE	202	N/A	0.4	
ALOTLED/DD 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/SM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/B/SM3 434 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC	3 5 5 5		206	102-99	0.207	AMLED/LC	199	N/A	0.01	
ALOTLED/DD/DM3 433 98-103 3 ALOTLED/DD/SM3 433 98-103 3 ALOTLED/DD/SM3 433 98-103 3 ALOTLED/DM3 433 98-103 3 ALOTLED/DCTO 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 434 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 5	95 95 95	AMALED80/CCT	206	102-98	0.293	AMLED10	364	72	1.3	
ALOTLED/DD/M3 433 98-103 3 ALOTLED/DD/SM3 433 98-103 3 ALOTLED/M3 433 98-103 3 ALOTLED/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 434 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-	95 95	AMATROLED	233	36	0.66	AMLED10/PIR	364	72	1.4	
ALOTLED/DD/SM3 433 98-103 3 ALOTLED/M3 433 98-103 3 ALOTLED/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 434 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 24	95	AMCD25W	187	N/A	N/A	AMLED100	365	96	9	
ALOTLED/DM3 433 98-103 3 ALOTLED/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 434 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3 244 58-64 2 ALUCLED/G/MMS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/WS/SM3/		AMCD50W	187	N/A	N/A	AMLED100/PC	365	96	9.6	
ALOTLED/M3 433 98-103 3 ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/BM3 434 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/		AME27045/BL	334	N/A	2.5	AMLED200	365	101	13.5	
ALOTLED/OCTO 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALOTLED/SM3 433 98-103 3 ALUCLED/B 264 34 1 ALUCLED/B 264 34 1 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3		AME27045/SS	335	N/A	3.28	AMLED200/PC	365	101	14.1	
ALOTLED/OCTO/DM3 433 98-103 3 ALOTLED/OCTO/M3 433 98-103 3 ALOTLED/OCTO/SM3 433 98-103 3 ALOTLED/SM3 445 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 A	95	AME27075/BL	334	N/A	2.7	AMLED30	364	91	3.6	
ALUCLED/B/MWS/BM3 244 58-64 2 ALUCLED/B/B/MS/SM3 244 58-64 2 ALUCLED/B/MWS/BM3 244 58-64 2 ALUCLED/B/B/BWS/BM3 244 58-64 2 ALUCLED/B/B/BWS/BM3 244 58-64 2 ALUCLED/B/B/BWS/BW3 244 58-64 2 ALUCLED/B/B/BWS/BW3 244 58-64 2 ALUCLED/B/BWS/BW3 244 58-64 2 ALUCLED/B/BWS/BW3/PC 244 58-64 2 ALU	3	AME27075/SS	335	N/A	3.34	AMLED30/PIR	364	91	3.7	
ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/M3 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MS/SM3 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/		AME27100/BL	334	N/A	4	AMLED50	364	96	5.88	
ALUCLED/B/MWS/DM3 ALUCLED/B/SM3 ALUCLED/B/MS/PC ALUCLED/B/MS/PC ALUCLED/B/MS/PC ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/MS/SM3 ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MWS/M3 ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MWS/M3 ALUCLED/G/	95	AME27100/SS	335	N/A	6.7	AMLED50/PC	364	96	6.48	
ALTOLED 264 34 1 ALUCLED/B 244 58-64 2 ALUCLED/B/DM3 244 58-64 2 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/MS/M3/PC 244 58-64 2 ALUCLED/G/MWS/MS/M3/PC 244 58-64 2 ALUCLED/G/MWS/MS/M3/PC 244 58-64 2 ALUCLED/G/MWS/MS/M3/PC 244 58-64 2 ALUCLED/G/MWS/MS/MS/MS/MS		AMELED/ER/3NM/ST	101	N/A	0.81	AMLWPLED	374	70	1.1	
ALUCLED/B/MS/PC 244 58-64 2 ALUCLED/B/MS/PC 244 58-64 2 ALUCLED/B/MS/PC 244 58-64 2 ALUCLED/B/MS/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/MS/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SMS/PC 244 58-64 2 ALUCLED/G/DM3 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 344 58-64 2 ALUCLED/G/MWS/SM3/PC 345 58-64 2 ALUCLED/G/MWS/BM3/PC 345 58-64 2 ALUCLED/	95	AMELED/ER/3NM/ST/B	101	N/A	0.81	AMLWPLED/MWS	374	70	1.5	
ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/M3 ALUCLED/	75	AMELED/OA/3NM/ST	101	N/A	0.81	AMCUED/PC	374	70	1.7	
ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/SM3 ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/G/MM3 ALUCLED/G/DM3 ALUCLED/G/MMS/DC ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/MS ALUCLED/G/MS/MS A		AMERI ED/CCT	101	N/A	0.81	AMON/CU10/B	444	N/A	0.413	
ALUCLED/B/M3/PC 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MS/DM3 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MS/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/MS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/MS/MS/MS/MS/MS/MS/MS/MS/MS/MS/MS/MS/MS		AMERIED/CCT/M3	270 270	71-87 71-87	1.97	AMON/GU10/B	137 137	N/A N/A	0.11	
ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/PC ALUCLED/B/PC ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/G/DM3 ALUCLED/G/DM3 ALUCLED/G/DM3/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MWS/M3/PC ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3/PC ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3/PC ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3/PC ALUCLED/G		AMERLED/CCT/M3	270	71-87	2.24	AMON/GU10/SS			-	
ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MS/DM3/PC 244 58-64 2 ALUCLED/G/MS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2		AMERLED/CCT/MWS		71-87	2.34	AMON/GU10/W	137 135	N/A N/A	0.11	
ALUCLED/B/MWS/DM3 ALUCLED/B/MWS/DM3/PC ALUCLED/B/MWS/DM3/PC ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3 ALUCLED/B/MWS/M3/PC ALUCLED/B/MWS/SM3 ALUCLED/B/MWS/SM3 ALUCLED/B/PC ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/G/DM3 ALUCLED/G/DM3/PC ALUCLED/G/M3/PC ALUCLED/G/M3/PC ALUCLED/G/MS/DM3 ALUCLED/G/MS/DM3 ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MS/PC ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3/PC ALUCLED/G/MWS/M3/PC ALUCLED/G/MWS/SM3 ALUCLED/G/		AMERLED/CCT/MWS/M3 AMERLED/CCT/OCTO	270	71-87	1.97	AMT1/B AMT1/SS	135	N/A	0.5	
ALUCLED/B/MWS/DM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MWS/SM3 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 345 58-64 2 ALUCLED/G/SM3/PC 347 58-64 2 ALUCLED/G/SM3/PC		AMERLED/CCT/OCTO/M3		71-87	2.24	AMT1/W	135	N/A	0.5	
ALUCLED/B/MWS/M3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/B/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 245 58-64 2 ALUCLED/G/MWS/DM3/PC 246 58-64 2 ALUCLED/G/MWS/DM3/PC 247 58-64 2 ALUCLED/G/MWS/DM3/PC 247 58-64 2 ALUCLED/G/MWS/SM3/PC 247 58-64 2 ALUCLED/G/SM3/PC 248 58-64 2 ALUCLED/G/SM3/PC 249 58-64 2 ALUCLED/G/SM3/PC		AMERLED/HP	270	82	2.45	AMT2/B	135	N/A	1	
ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/M3/PC ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/B/SM3/PC ALUCLED/G/SM3/PC ALUCLED/G/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/M3/PC ALUCLED/G/M3/PC ALUCLED/G/M3/PC ALUCLED/G/M3/PC ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/MWS/SM3/PC ALUCLED/G/SM3 ALUCLED/G/SM3/PC ALUCLED/G/SM3 ALUCLED/G/SM3/PC ALUCLED/G/SM3 ALUCLED/G/SM3/PC ALUCLED/G/SM3 ALUCLED/G/SM3 ALUCLED/G/SM3 ALUCLED/G/SM3/PC ALUCLED/G/SM3 ALUCLED/G		AMERLED/HP/DD	270	82	2.45	AMT2/SS	135	N/A	1	
ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MS/PC ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/SM3 ALUCLED/G/SM3 ALUC	86	AMERLED/HP/DD/M3	270	82	2.72	AMT2/W	135	N/A	1	
ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3/PC ALUCLED/B/SM3 ALUCLED/B/SM3 ALUCLED/G/SM3/PC ALUCLED/G/DM3/PC ALUCLED/G/DM3/PC ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/SM3 ALUCLED/G/SM3 AL		AMERLED/HP/DD/M3/ST		82	2.98	AMTA/B	137	N/A	N/A	
ALUCLED/B/MWS/SM3/PC 244 58-64 2 ALUCLED/B/SM3 244 58-64 2 ALUCLED/B/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/MS/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 247 58-64 2	86	AMERLED/HP/DD/MWS	270	82	2.55	AMTA/SS	137	N/A	N/A	
ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/SM3 ALUCLED/G/SM3 A	86	AMERLED/HP/DD/MWS/N		82	2.83	AMTA/W	137	N/A	N/A	
ALUCLED/B/SM3 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 247 58-64 2 ALUCLED/G/S/M3/PC 247 58-64 2 ALUCLED/G/S/M3/PC 247 58-64 2 ALUCLED/G/S/M3/PC 247 58-64 2 ALUCLED/G/S/M3/PC 247 58-64 2 ALUCL	81	AMERLED/HP/M3	270	82	2.72	AMTBC/B	136	N/A	N/A	
ALUCLED/G ALUCLED/G/DM3 ALUCLED/G/DM3/PC ALUCLED/G/DM3/PC ALUCLED/G/M3/PC ALUCLED/G/MWS ALUCLED/G/MWS ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/DM3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/M3 ALUCLED/G/MWS/PC ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3 ALUCLED/G/MWS/SM3/PC ALUCLED/G/SM3 ALUCLED	86	AMERLED/HP/MWS	270	82	2.55	AMTBC/SS	136	N/A	N/A	
ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/MM3/PC 244 58-64 2 ALUCLED/G/MM3/PC 244 58-64 2 ALUCLED/G/MWS 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 24	86	AMERLED/HP/MWS/M3	270	82	2.83	AMTBC/W	136	N/A	N/A	
ALUCLED/G/DM3/PC 244 58-64 2 ALUCLED/G/M3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/S/MS/SM3/PC 244 58-64 2 ALUCLED/G/SM	75	AMERLED/HP/OCTO	270	82	2.45	AMTDE/B	136	N/A	N/A	
ALUCLED/G/M3 244 58-64 2 ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/	86	AMERLED/HP/OCTO/M3	270	82	2.72	AMTDE/SS	136	N/A	N/A	
ALUCLED/G/M3/PC 244 58-64 2 ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 245 58-64 2 ALUCLED/G/SM3/PC 246 58-64 2 ALUCLED/G/SM3/PC 247 58-64 2 ALUCLED/G/MWS/SM3/PC 247 58-64 2 ALUCLED/G/SM3/PC 247 58-64 2 A	86	AMERLEDBZ/CH	270	N/A	0.25	AMTDE/W	136	N/A	N/A	
ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-	86	AMETLED	343	91	1.11	AMTFC/B	137	N/A	N/A	
ALUCLED/G/MWS/DM3 244 58-64 2 ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUC	86	AMGAMLED 2	212,272	94	1.31	AMTFC/SS	137	N/A	N/A	
ALUCLED/G/MWS/DM3/PC 244 58-64 2 ALUCLED/G/MWS/M3 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCL	81	AMGAMLED/M3 2	212,272	94	1.54	AMTFC/W	137	N/A	N/A	
ALUCLED/G/MWS/M3 244 58-64 2 ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 307 N/A 0 ALWL/CBB 306 N/A 1 ALWL/CBW 307 N/A 0 ALWL/PIR/WH 306 68 0	86	AMGAMLED/MWS 2	212,272	94	1.33	AMTINS/B	135	N/A	0.085	
ALUCLED/G/MWS/M3/PC 244 58-64 2 ALUCLED/G/MWS/PC 244 58-64 2 ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/MS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 307 N/A 0 ALWL/CBB 306 N/A 1 ALWL/CBW 307 N/A 0 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 307 N/A 0	86	AMGAMLED/MWS/M3 2	212,272	94	1.56	AMTINS/SS	135	N/A	0.085	
ALUCLED/G/MWS/PC 244 58-64 2 ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 307 N/A 0 ALWL/BL 307 N/A 1 ALWL/CBB 306 N/A 1 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 306 68 0 ALWL/PIR/BL 306 68 0	86	AMGAMLED/WW 2	212,272	88	1.31	AMTINS/W	135	N/A	0.085	
ALUCLED/G/MWS/SM3 244 58-64 2 ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 307 N/A 0 ALWL/BL 307 N/A 1 ALWL/CBB 306 N/A 1 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 307 N/A 0 ALWL/WH 307 N/A 0 ALWL/PIR/WH 306 68 0 ALWL/PIR/BL 306 68 0	86	AMGAMLED/WW/M3 2	212,272	88	1.54	AMTLC/PI/B	137	N/A	N/A	
ALUCLED/G/MWS/SM3/PC 244 58-64 2 ALUCLED/G/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 307 N/A 0 ALWL/BL 307 N/A 1 ALWL/CBB 306 N/A 1 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 306 68 0	81	AMGAMLED/WW/MWS 2	212,272	88	1.33	AMTLC/PI/SS	137	N/A	N/A	
ALUCLED/G/PC 244 58-64 2 ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALWL/BL 307 N/A 0 ALWL/CBB 306 N/A 1 ALWL/CBW 306 N/A 1 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 306 68 0	86		212,272	88	1.56	AMTLC/PI/W	137	N/A	N/A	
ALUCLED/G/SM3 244 58-64 2 ALUCLED/G/SM3/PC 244 58-64 2 ALWL/BL 307 N/A 0 ALWL/CBB 306 N/A 1 ALWL/CBW 306 N/A 1 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 306 68 0	86	AMGAMLEDBZ/CH 2	212,272	N/A	0.29	AMTLC/PO/B	137	N/A	N/A	
ALUCLED/G/SM3/PC 244 58-64 2 ALWL/BL 307 N/A 0 ALWL/CBB 306 N/A 1 ALWL/CBW 306 N/A 1 ALWL/PIR/BL 307 N/A 0 ALWL/PIR/WH 307 N/A 0 ALWL/WH 306 68 0 ALWLLED/PIR/BL 306 68 0		AMICD/AB	112	N/A	0.24	AMTLC/PO/SS	137	N/A	N/A	
LWL/BL 307 N/A 0 LWL/CBB 306 N/A 1 LWL/CBW 306 N/A 1 LWL/PIR/BL 307 N/A 0 LWL/PIR/WH 307 N/A 0 LWL/WH 307 N/A 0 LWLLED/BL 306 68 0 LWLLED/PIR/BL 306 68 0	86	AMICD/BLC	112	N/A	0.24	AMTLC/PO/W	137	N/A	N/A	
ALWL/CBB 306 N/A I ALWL/CBW 306 N/A I ALWL/PIR/BL 307 N/A C ALWL/PIR/WH 307 N/A C ALWL/WH 307 N/A C ALWLLED/BL 306 68 C ALWLLED/PIR/BL 306 68 C	86	AMICD/BR	112	N/A	0.24	AMTLE/PL/B	136	N/A	N/A	
ALWL/CBW 306 N/A I ALWL/PIR/BL 307 N/A C ALWL/PIR/WH 307 N/A C ALWL/WH 307 N/A C ALWLLED/BL 306 68 C ALWLLED/PIR/BL 306 68 C	9	AMICD/CH	112	N/A	0.24	AMTLE/PL/SS	136	N/A	N/A	
ALWL/PIR/BL 307 N/A C ALWL/PIR/WH 307 N/A C ALWL/WH 307 N/A C ALWLLED/BL 306 68 C ALWLLED/PIR/BL 306 68 C		AMICD/IP65/AB	115	N/A	0.33	AMTLE/PL/W	136	N/A	N/A	
ALWL/PIR/WH 307 N/A C ALWLLWH 307 N/A C ALWLLED/BL 306 68 C ALWLLED/PIR/BL 306 68 C	A	AMICD/IP65/BLC	115	N/A	0.33	AMTLE/PR/B	136	N/A	N/A	
LWL/WH 307 N/A 0 LWLLED/BL 306 68 0 LWLLED/PIR/BL 306 68 0		AMICD/IP65/BR	115	N/A	0.33	AMTLE/PR/SS	136	N/A	N/A	
ALWLLED/BL 306 68 0	2	AMICD/IP65/CH	115	N/A	0.33	AMTLE/PR/W	136	N/A	N/A	
LWLLED/PIR/BL 306 68 C		AMICD/IP65/MW	115	N/A N/A	0.33	AMTP1/SS AMTP1/W	133 133	N/A N/A	N/A N/A	
		AMICD/IP65/SC	115 115	N/A N/A	0.33	AMTSC/B	133	N/A N/A	N/A	
	1	AMICD/IP65/W AMICD/MW	112	N/A N/A	0.33	AMTSC/SS	136	N/A N/A	N/A	
	69	AMICD/MW AMICD/SC	112	N/A N/A	0.24	AMTSC/W	136	N/A N/A	N/A	
			112	N/A N/A	0.24	AMTSK	136	N/A N/A	N/A	
	6	AMICD/W AMICG/AB	114	N/A N/A		AMTTC/PI/B		N/A N/A	N/A	
	3		114	N/A N/A	0.26	AMTTC/PI/SS	137 137	N/A N/A	N/A	
	6	AMICG/BLC	114	N/A N/A	0.26	AMTTC/PI/W	137	N/A N/A	N/A	
	3	AMICG/BR				AMTTC/PO/B	137	N/A N/A	N/A	
ALWPLED/DD/MWS/M3 375 60 :		AMICG/CH	114	N/A	0.26	AMTTC/PO/SS	137	N/A N/A	N/A N/A	

										•	roduct		CE	"""	
Product Code	Page	Lm/W	Kg	Trade Product Co	ode Pa	ge 🏻	m/W	Kg	Trade		Product Code	Page	Lm/W	Kg	1
AMTTC/PO/W	137	N/A	N/A	AOLEDL55/DD	/M2 3	390	135	4.33			AOTLED5/CCT/MWS	409	86-92	2.2	
AMTXC/B	136	N/A	N/A	AOLEDL55/DD		390	135	4.73			AOTLED5/CCT/MWS/N			3.3	
AMTXC/SS	136	N/A	N/A	AOLEDL55/DD/		390	135	5.23				409		3.3	
AMTXC/W	136	N/A	N/A	AOLEDL55/M3		390	135	4.33			AOTLED5/W/CCT AOTLED5/W/CCT/DD	409			
ANAPLED/B	245	105-117	2.01			390	135							3.3	
	245	105-117		AOLEDL55/SE		390		4.73			AOTLED5/W/CCT/DD/I				
ANAPLED/B/DM3				AOLEDL55/SE			135	5.23			AOTLED5W/CCT/DDMWS	409		3.3	
NAPLED/B/DM3/PC	245	105-117	2.43	AOLEDL55/SE		390	135	4.73			AOTLED5W/CCT/DDMWS/			3.3	
ANAPLED/B/M3	245	105-117		AOLEDL55/SE		390	135	5.23			AOTLED5/W/CCT/M3	409		3.3	
ANAPLED/B/M3/PC	245	105-117		AOLEDL55/Wo			N/A	1.33			AOTLED5/W/CCT/MW			3.3	
ANAPLED/B/MWS	245	105-117	2.221	AOLEDL80		390	120	2.91			AOTLED5/W/CCT/MWS/N			3.3	
NAPLED/B/MWS/DM3	245	105-117	2.43	AOLEDL80/DE	3	390	120	2.91			AOXLED2X4	419	111	2.57	
ANAPLED/B/MWS/DM3/PC	245	105-117	2.64	AOLEDL80/DE	/M3 3	390	120	8.91			AOXLED2X4/DD	419	111	2.57	
ANAPLED/B/MWS/M3	245	105-117	2.43	AOLEDL80/DE	/SEN1 3	390	120	8.86			AOXLED2X4/DD/M3	419	111	3.15	
NAPLED/B/MWS/M3/PC	245	105-117	2.64	AOLEDL80/DE	/SEN1/M3 3	390	120	9.26			AOXLED2X4/M3	419	111	3.15	
NAPLED/B/MWS/PC	245	105-117	2.43	AOLEDL80/M3	3	390	120	8.91			AOXLED2X4/M3/OCTO	419	111	3.15	
NAPLED/B/MWS/SM3	245	105-117	2.43	AOLEDL80/SE	N1 3	390	120	8.86			AOXLED2X4/OCTO	419	111	2.57	
NAPLED/B/MWS/SM3/PC	245	105-117	2.64	AOLEDL80/SE	N1/M3 3	390	120	9.26			AOXLED2X4/OCTO/M3	419	111	3.15	
NAPLED/B/PC	245	105-117	2.221	AOLEDL80/SE	N3 3	390	120	8.86			AOXLED2X5	419	109	3.24	
NAPLED/B/SM3	245	105-117	2.221	AOLEDL80/SE		390	120	9.26			AOXLED2X5/DD	419		3.24	
NAPLED/B/SM3/PC	245	105-117		AOLEDL80/W		390	N/A	2.91			AOXLED2X5/DD/M3	419		3.82	
ANAPLED/G	245	105-117		AONIXLED/1		379	104	3.6			AOXLED2X5/DD/M3/S			3.84	
ANAPLED/G/DM3	245	105-117		AONIXLED/1/F		379	104	4.2			AOXLED2X5/DD/M5/S	419		3.82	
ANAPLED/G/DM3/PC	245	105-117	2.43	AONIXLED/1/F		379	98	3.7			AOXLED2X5/M3 AOXLED2X5/OCTO	419		3.82	
ANAPLED/G/DM3/PC	245	105-117				379 379	98							3.24	
				AONIXLED/2/F				4.3			AOXLED2X5/OCTO/M3				
ANAPLED/G/M3/PC	245	105-117	2.43	AONIXLED/3		379	103	5.2			AOXLED4	419		2.42	
ANAPLED/G/MWS	245	105-117		AONIXLED/3/F	-	379	103	5.8			AOXLED4/DD	419	_	2.42	
ANAPLED/G/MWS/DM3	245	105-117		AONIXLED/4		379	103	5.5			AOXLED4/DD/DM3	419		2.89	
ANAPLED/G/MWS/DM3/PC		105-117		AONIXLED/4/F		379	103	6.1			AOXLED4/DD/M3	419		2.89	
ANAPLED/G/MWS/M3	245	105-117	2.43	AONIXLED/SE	A 3	379	N/A	11.28			AOXLED4/DD/SM3	419	-	2.89	
NAPLED/G/MWS/M3/PC	245	105-117	2.64	AORBLED/CW		48	92	0.3			AOXLED4/M3	419	128	2.89	
NAPLED/G/MWS/PC	245	105-117	2.43	AORBLED/DIN	IMER	49	N/A	0.32			AOXLED4/OCTO	419	128	2.42	
NAPLED/G/MWS/SM3	245	105-117	2.43	AORBLED/WV	I	48	82	0.3			AOXLED4/OCTO/M3	419	128	2.89	
NAPLED/G/MWS/SM3/PC	245	105-117	2.64	AORBLEDBZ/	AΒ	49	N/A	0.04			AOXLED5	419	108	2.93	
ANAPLED/G/PC	245	105-117	2.221	AORBLEDBZ/I	BLC	49	N/A	0.04			AOXLED5/DD	419	108	2.93	
NAPLED/G/SM3	245	105-117	2.221	AORBLEDBZ/I	3R	49	N/A	0.04			AOXLED5/DD/M3	419	108	3.4	
NAPLED/G/SM3/PC	245	105-117	2.43	AORBLEDBZ/	CH	49	N/A	0.04			AOXLED5/M3	419	108	3.4	
NE27/MPTL/BL	311	N/A	2.66	AORBLEDBZ/S	SC SC	49	N/A	0.04			AOXLED5/OCTO	419	108	2.93	
ANE27/PIL/BL	311	N/A	2.23	AORBLEDBZ/S	SQ/AB	49	N/A	0.04			AOXLED5/OCTO/M3	419	108	3.4	Г
ANE27/WLBA/BL	311	N/A	2.14	AORBLEDBZ/S	SQ/BLC	49	N/A	0.04			APAVLED/WL	239	N/A	1.17	
ANE27/WLTA/BL	311	N/A	2.19	AORBLEDBZ/S		49	N/A	0.04			APAVLEDB/60	317	N/A	1.48	Г
ANEPLED	436	99-108	3.6	AORBLEDBZ/S		49	N/A	0.04			APCLEDWL	295	45	0.67	
ANEPLED/DD	436	99-108	3.6	AORBLEDBZ/S		49	N/A	0.04			APLEDDVRL	220	-	0.53	г
ANEPLED/DD/M3	436	99-108	4.11	AORBLEDBZ/S			N/A	0.04			APLULED	437		3	
ANEPLED/M3	436	99-108	4.11	AORNLED/PL		338	71	2.38			APLULED/DD	437	112	3	
	436	99-108	3.6				N/A				APLULED/DD/M3	437		3.49	
ANEPLED/OCTO/M3	436			AORNLED/PL:				2.43			APLULED/M3			3.49	
ANEPLED/OCTO/M3		99-108 N/A	4.11	AOSLED/3M/C			N/A	1.1				437	112		
ANSGU10/SC	109	N/A	0.45	AOSLED/3M/S			N/A	1.06			APLULED/OCTO/M3	437		3	
ANSGU10/W	109	N/A	0.45	AOTLED/90B			N/A	0.52			APLULED/OCTO/M3	437	112	3.49	
ANTIALED	252	37	0.58	AOTLED2X5/C			84-86	3.3			APOLED100	361	80	4.2	
AOCOMMISSION	390	N/A	N/A	AOTLED2X5/C			84-86	3.3			APOLED100/PC	361	80	4.26	
OCONTROLLER	390	N/A	N/A	AOTLED2X5/0			84-86	3.3			APOLED200	361	78	6.45	
AOCTO/BT/PIR/IP65-S	39	N/A	0.11	AOTLED2X5/CC			84-86	3.3			APOLED200/PC	361	78	7.05	
AOCTO/BT/PIR-R	38	N/A	0.01	AOTLED2X5/CCT	DDMWSM3 4	109 8	84-86	3.3			APRILED/CCTPACK	52	67-85	0.38	
AOCTO/BT/PIR-S	38	N/A	0.18	AOTLED2X5/C	CT/M3 4	109 8	84-86	3.3			APRILED/CW	50	98	0.38	
AOCTO/BT/WS	33	N/A	0.06	AOTLED2X5/0	CT/MWS 4	109 8	84-86	3.3			APRILED/WW	50	96	0.38	
AOCTO/BT/WS/IP65	35	N/A	0.06	AOTLED2X5/CC	T/MWS/M3 4	109 8	84-86	3.3			APRILEDBZ/CH	50	N/A	0.04	
AOCTO/IC/200	26	N/A	0.15	AOTLED2X5/V	I/CCT 4	109 8	84-86	3.3			APRILEDBZ/SC	50	N/A	0.04	
AOCTO/IC/50	26	N/A	0.15	AOTLED2X5/V	//CCT/DD 4	109 8	84-86	3.3			APRLED2X4	417	98	3.7	
OCTO/OC/IP65/200	31	N/A	0.32	AOTLED2X5WOO		109 8	84-86	3.3			APRLED2X4/DD	417	98	3.7	
OCTO/RGBW/BTC	27	N/A	0.23	AOTLED2X5WICC		109 8	84-86	3.3			APRLED2X4/DD/M3	417		4.29	
OCTO/SR	36	N/A	0.05	AOTLED2X5WCC			84-86	3.3			APRLED2X4/DD/MWS	417		3.72	
OCTO/WS/B	32	N/A	0.05	AOTLED2X5/W			84-86	3.3			APRLED2X4/DD/MWS/M			4.33	
AOCTO/WS/M	32	N/A	0.05	AOTLED2X5/W			84-86	3.3			APRLED2X4/M3	417		4.29	
	32	N/A	0.05	AOTLED2X5/W			84-86	3.3			APRLED2X4/MWS	417		3.72	
AOCTO/WS/W															
AOCTO/XP/WS/B	34	N/A	0.09	AOTLED5/CC			86-92	3.3			APPLED2X4/MWS/M3	417		4.33	
AOCTO/XP/WS/W	34	N/A	0.09	AOTLED5/CC			86-92	3.3			APRLED2X4/OCTO	417		3.7	
AOCTOBTL/8W/E27	25	N/A	0.07	AOTLED5/CC			86-92	3.3			APRLED2X4/OCTO/M3			4.29	
AOCTOBTL/ADAPTOR/B22		N/A	0.4	AOTLED5/CC			86-92	3.3			APRLED2X5	417		4.5	
AOLEDL55	390	135	3.83	AOTLED5/CCT/L	D/MWS/M3 4	109 8	86-92	3.3			APRLED2X5/DD	417	100	4.5	
AOLEDL55/DD	390	135	3.83	AOTLED5/CC	/M3 4	109 8	86-92	3.3			APRLED2X5/DD/M3	417	100	5.09	



Product Code P	age	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trad
APRLED2X5/DD/MWS	417	100	4.54		ASBLED/110V/PC	291	85	0.37		ASLED4	393	82	2.1	
APRLED2X5/DD/MWS/M3		100	5.13		ASBLED/DIFF/RED	291	N/A	0.37		ASLED4/DD	393	82	2.1	
PRLED2X5/M3	417	100	5.09		ASBLED/MWS	291	73	0.49		ASLED4/DD/M3	393	82	2.68	
PRLED2X5/MWS	417	100	4.54		ASBLED/PC	291	73	0.49		ASLED4/DD/MWS	393	82	2.12	
PRLED2X5/MWS/M3	417	100	5.13		ASBP/1	443, 446		0.49		ASLED4/DD/MWS/M3	393	82	2.12	
PRLED2X5/OCTO	417	100	4.5		ASBP/10	102, 471	N/A	0.00			393	82		
	417	100				472		0.23		ASLED4/M3	393	82	2.68	
PRLED2X5/OCTO/M3	417		5.09		ASBP/11					ASLED4/MWS			2.12	
APRLED2X6		101	5.3		ASBP/12	88		0.86		ASLED4/MWS/M3	393	82	2.7	
APRLED2X6/DD	417	101	5.3		ASBP/14	100, 468		0.06		ASLED5	393	84	2.62	
APRLED2X6/DD/M3	417	101	5.89		ASBP/15	450	N/A	0.07		ASLED5/DD	393	84	2.62	
APRLED2X6/DD/MWS	417	101	5.34		ASBP/16	450	N/A	0.34		ASLED5/DD/M3	393	84	3.2	
APRLED2X6/DD/MWS/M3		101	5.93		ASBP/17 239, 241	, 317, 318	N/A	0.38		ASLED5/DD/MWS	393	84	2.64	
APRLED2X6/M3	417	101	5.89		ASBP/18	444, 452	N/A	0.086		ASLED5/DD/MWS/M3	393	84	3.22	
APRLED2X6/MWS	417	101	5.34		ASBP/19	96, 464	N/A	0.042		ASLED5/M3	393	84	3.2	
APRLED2X6/MWS/M3	417	101	5.93		ASBP/2 445	, 448, 453	N/A	0.15		ASLED5/MWS	393	84	2.64	
APRLED2X6/OCTO	417	101	5.3		ASBP/3	455	N/A	0.16		ASLED5/MWS/M3	393	84	3.22	
APRLED2X6/OCTO/M3	417	101	5.89		ASBP/4	456	N/A	0.06		ASLED6	393	79	3.1	
PRLED4	417	100	3.5		ASBP/5	459	N/A	0.15		ASLED6/DD	393	79	3.1	
APRLED4/DD	417	100	3.5		ASBP/6	461, 463	N/A	0.54		ASLED6/DD/M3	393	79	3.8	
APRLED4/DD/M3	417	100	4.09		ASBP/7	462		0.35		ASLED6/DD/MWS	393	79	3.12	
APRLED4/DD/MWS	417	100	3.54		ASBP/8	97, 465		0.2		ASLED6/DD/MWS/M3	393	79	3.82	
APRLED4/DD/MWS/M3	417	100	4.13		ASBP/9 98,99,101,4		N/A	0.42		ASLED6/M3	393	79	3.8	
APRLED4/M3	417	100	4.09		ASCOLED/1/CCT	105		0.66		ASLED6/MWS	393	79	3.12	
APRLED4/MWS	417	100	3.54		ASCOLED/1/CCT/DD	105		0.66		ASLED6/MWS/M3	393	79	3.82	
APRLED4/MWS/M3	417	100			ASCOLED/1/CCT/DD			0.66			421	111-103	0.4	
APRLED4/MWS/M3	417	100	4.13 3.5			105		0.66		ASPELED/60/CCT	421	111-103	0.4	
					ASCOLED/2/CCT					ASPELED/60/CCT/DD				
APRLED4/OCTO/M3	417	100	4.09		ASCOLED/2/CCT/DD	105		0.66		ASPELED/60/CCT/DD/DM3	421	111-103	1.2	
APRLED5	417	104	4.3		ASCOLED/2/CCT/OCT			0.66		ASPELED/60/CCT/DD/M3	421	111-103	1.2	
APRLED5/DD	417	104	4.3		ASEC/G125/AB	168		0.4		ASPELED/60/CCT/DD/SM3	421	111-103	1.2	
APRLED5/DD/M3	417	104	4.89		ASEC/G125/BLC	168		0.4		ASPELED/60/CCT/DM3	421	111-103	1.2	
PRLED5/DD/MWS	417	104	4.43		ASEC/ST65/AB	169	N/A	0.35		ASPELED/60/CCT/M3	421	111-103	1.2	
APRLED5/DD/MWS/M3	417	104	4.93		ASEC/ST65/BLC	169	N/A	0.35		ASPELED/60/CCT/OCTO	421	111-103	0.4	
APRLED5/M3	417	104	4.89		ASEGLED	254	47	0.67		ASPELED/60/CCT/OCTO/M3	3 421	111-103	1.2	
APRLED5/MWS	417	104	4.43		ASELED/WL	235	52	0.5		ASPELED/60/CCT/SM3	421	111-103	1.2	
APRLED5/MWS/M3	417	104	4.93		ASELED/WL/PIR	235	52	0.55		ASPGN/1LEDWHI	183	15	0.41	
APRLED5/OCTO	417	104	4.3		ASELEDB/060	321	52	1.09		ASPRLED/LI/3M/DA	96	N/A	0.458	
APRLED5/OCTO/M3	417	104	4.89		ASELEDB/060/PIR	321	52	1.18		ASR2LED/B	289	79	0.75	
APRLED6	417	114	5.1		ASELEDB/100	321	52	1.7		ASR2LED/W	289	79	0.75	
APRLED6/DD	417	114	5.1		ASELEDB/100/PIR	321	52	1.75		ASSULED0/CW/B	162	69	0.41	
APRLED6/DD/M3	417	114	5.69		ASFRLED230/CW	106	76	0.86		ASSULED0/CW/SS	162	69	0.41	
APRLED6/DD/MWS	417	114	5.14		ASFRLED230/WW	106	70	0.86		ASSULED0/CW/W	162	69	0.41	
APRLED6/DD/MWS/M3	417	114	5.73		ASGU10L	131	N/A	N/A		ASULED/1/CW	376	86	12	
APRLED6/M3	417		5.69		ASIDLED/CW	410		2.9		ASULED/1/CW/PC	376	86	12.3	
APRLED6/MWS	417	114	5.14		ASK1	413				ASULED/1/WW	376	82	12	
APRLED6/MWS/M3	417	114	5.73		ASLED/3NM	97, 465		N/A 0.36		ASULED/1/WW/PC	376	82	12.3	
		114								ASULED/2/CW			12.3	
APRLED6/OCTO/M3	417		5.1		ASLED/3NM/B	97, 465		0.36			376	77		
APRLED6/OCTO/M3	417	114	5.69		ASLED2X4	393		3.14		ASULED/2/CW/PC	376	77	12.3	
PYLED/KIT/CW	200	80	0.36		ASLED2X4/DD	393		3.14		ASULED/2/WW	376	73	12	
APYLED/KIT/WW	200		0.36		ASLED2X4/DD/M3	393		3.66		ASULED/2/WW/PC	376	73	12.3	
RALED/ER/3NM/ST 100		N/A	0.37		ASLED2X4/DD/MWS	393		3.16		ASUWOLED/CW	345	35	0.31	
	0, 468		0.37		ASLED2X4/DD/MWS/M			3.68		ASUWOLED/WW	345	35	0.31	
RAZLED/LI/3M/DA	458	N/A	1.155		ASLED2X4/M3	393		3.66		ASWTLED/3M	443	N/A	0.4	
ARCLED/CW/SS	209	73	0.09		ASLED2X4/MWS	393	79	3.16		ATA2X50	248	N/A	0.4	
ARCLED/CW/W	209	73	0.09		ASLED2X4/MWS/M3	393	79	3.68		ATALEDB/1000	331	53	3.65	
RCLED/WW/SS	209	66	0.09		ASLED2X5	393	84	4		ATALEDB/1000/M3	331	53	2.91	
RCLED/WW/W	209	66	0.09		ASLED2X5/DD	393	84	4		ATASLED/WL	241	N/A	4.82	
RE27/HL/BL	308	N/A	2.17		ASLED2X5/DD/M3	393	84	4.57		ATASLEDB/60	318	N/A	3.9	
RE27/PIR/HL/BL	308	N/A	2.17		ASLED2X5/DD/MWS	393	84	4.02		ATCKLED/SI	211	27	0.64	
RGU10	178	N/A	0.6		ASLED2X5/DD/MWS/M	из 393	84	4.59		ATCKLED/W	211	27	0.64	
RIELED/CW	107	82	0.25		ASLED2X5/M3	393	84	4.57		ATCSLED/SI	211	27	0.09	
RIELED/WW	107	76	0.25		ASLED2X5/MWS	393		4.02		ATCSLED/W	211	27	0.09	
RLEDTL/CW	210	61	0.09		ASLED2X5/MWS/M3	393		4.59		ATL/BA	124	N/A	N/A	
RLEDTL/WW	210		0.09		ASLED2X6	393		4.91		ATLD/AB	124	N/A	0.2	
	334	N/A				393		4.91		ATLD/BLC	124	N/A	0.2	
RMK3			N/A		ASLED2X6/DD									
ROLEDSSS	339	60	1.29		ASLED2X6/DD/M3	393		5.48		ATLD/BR	124	N/A	0.2	
RULEDP/WW/B	167	64	0.76		ASLED2X6/DD/MWS	393		4.93		ATLD/CH	124	N/A	0.2	
RULEDP/WW/W	167	64	0.76		ASLED2X6/DD/MWS/N			5.5		ATLD/IP65/CH	126	N/A	0.25	
ASBLED	290	73	0.47		ASLED2X6/M3	393	83	5.48		ATLD/IP65/MW	126	N/A	0.25	
ASBLED/110V	291	85	0.35		ASLED2X6/MWS	393	83	4.93		ATLD/IP65/SC	126	N/A	0.25	
SBLED/110V/MWS	291	85	0.37		ASLED2X6/MWS/M3	393	83	5.5		ATLD/IP65/W	126	N/A	0.25	

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Product Code	Page	Lm/W	Kg	Trade Product Code	Page	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trad
ATLD/MW	122	N/A	0.2	ATORLED2X4/DD/MWS	396	110	1.12		ATORPLED2X4/DD	396	109	2.27	
ATLD/SC	122	N/A	0.2	ATORLED2X4/DD/MWS			1.9		ATORPLED2X4/DD/DI		109	3.27	
ATLD/W	122	N/A	0.2	ATORLED2X4/M3	396		1.68		ATORPLED2X4/DD/M		109	3.27	
ATLED/WL	237	73	0.99	ATORLED2X4/MWS	396		1.12		ATORPLED2X4/DD/M			2.77	
TLED/WL/PIR	237	73	0.2	ATORLED2X4/MWS/	/M3 396	110	1.9		ATORPLED2X4/DDMWS/E		109	3.77	
ATLG/AB	123	N/A	0.2	ATORLED2X4/OCTO	396	110	1.1		ATORPLED2X4/DD/MWS/	M3 396	109	3.77	
ATLG/BLC	123	N/A	0.2	ATORLED2X4/OCTO)/M3 396	110	1.68		ATORPLED2X4/DM3	394	109	3.27	
ATLG/BR	123	N/A	0.2	ATORLED2X5	396	110	2		ATORPLED2X4/M3	394	109	3.27	
ATLG/CH	123	N/A	0.2	ATORLED2X5/110V	396	110	1.71		ATORPLED2X4/MWS	394	109	2.77	
ATLG/MW	123	N/A	0.2	ATORLED2X5/110V/	M3 396	110	2.39		ATORPLED2X4/MWS/DI	vi3 394	109	3.77	
ATLG/SC	123	N/A	0.2	ATORLED2X5/110V/	MWS 396	110	1.73		ATORPLED2X4/MWS/	M3 394	109	3.77	
ATLG/W	123	N/A	0.22	ATORLED2X5/110V/MM	/S/M3 396	110	2.41		ATORPLED2X4/OCTO	394	109	2.27	
ATLLED2X4	403	104	1.37	ATORLED2X5/DD	396	110	2		ATORPLED2X4/OCTO/D	M3 394	109	3.27	
ATLLED2X4/DD	403	104	1.37	ATORLED2X5/DD/M	3 396	110	2.58		ATORPLED2X4/OCTO/N	13 394	109	3.27	
ATLLED2X4/DD/M3	403	104	1.95	ATORLED2X5/DD/M	WS 396	110	2.02		ATORPLED2X5	394	104	3.05	
ATLLED2X4/M3	403	104	1.95	ATORLED2X5/DD/MW		110	2.8		ATORPLED2X5/DD	394	104	3.05	
ATLLED2X4/OCTO	403	104	1.37	ATORLED2X5/M3	396	110	2.58		ATORPLED2X5/DD/DI		104	4.05	
ATLLED2X4/OCTO/M3	403	104	1.95	ATORLED2X5/MWS	396		2.02		ATORPLED2X5/DD/M		104	4.05	
ATLLED2X5	403	99	1.69	ATORLED2X5/MWS/			2.8		ATORPLED2X5/DD/M		104	3.55	
ATLLED2X5/DD	403	99	1.69	ATORLED2X5/NWS/			2.6		ATORPLED2X5/DD/MWS/		104	4.55	
ATLLED2X5/DD/M3	403	99	2.27	ATORLED2X5/OCTO			2.58		ATORPLED2X5/DD/MWS/		104	4.55	
ATLLED2X5/M3	403	99	2.27	ATORLED2X6	7/10/3 390 396		2.56		ATORPLED2X5/DM3	394	104	4.05	
ATLLED2X5/M3 ATLLED2X5/OCTO	403	99	1.69	ATORLED2X6/DD	396		2.4		ATORPLED2X5/DM3	394	104	4.05	
ATLLED2X5/OCTO/M3	403	99	2.27				2.98			394	104	3.55	
ATLLED2X6	403	108	1.93	ATORLED2X6/DD/M					ATORPLED2X5/MWS		104	4.55	
		108		ATORLED2X6/DD/M			2.42		ATORPLED2X5/MWS/D				
ATLLED2X6/DD	403		1.93	ATORLED2X6/DD/MW			3.2		ATORPLED2X5/MWS/N		104	4.55	
ATLLED2X6/DD/M3	403	108	2.51	ATORLED2X6/M3	396		2.98		ATORPLED2X5/OCTO		104	3.05	
ATLLED2X6/M3	403	108	2.51	ATORLED2X6/MWS	396		2.42		ATORPLED2X5/OCTO/D		104	4.05	
ATLLED2X6/OCTO	403	108	1.93	ATORLED2X6/MWS/			3.2		ATORPLED2X5/OCTO/N		104	4.05	
ATLLED2X6/OCTO/M3	403	108	2.51	ATORLED2X6/OCTO			2.4		ATORPLED2X6	394	105	3.2	
ATLLED4	403	99	1.35	ATORLED2X6/OCTO			2.98		ATORPLED2X6/DD	394	105	3.2	
ATLLED4/DD	403	99	1.35	ATORLED4	396		0.78		ATORPLED2X6/DD/DI		105	4.3	
ATLLED4/DD/M3	403	99	1.93	ATORLED4/110V	396		1.85		ATORPLED2X6/DD/M		105	4.3	
ATLLED4/M3	403	99	1.93	ATORLED4/110V/M3			2.43		ATORPLED2X6/DD/M	WS 394	105	3.7	
ATLLED4/OCTO	403	99	1.35	ATORLED4/110V/MV			1.87		ATORPLED2X6/DD/MWS		105	4.8	
ATLLED4/OCTO/M3	403	99	1.93	ATORLED4/110V/MV			2.45		ATORPLED2X6/DD/MWS		105	4.8	
ATLLED5	403	107	1.68	ATORLED4/DD	396	104	0.78		ATORPLED2X6/DM3	394	105	4.3	
ATLLED5/DD	403	107	1.68	ATORLED4/DD/M3	396	104	1.36		ATORPLED2X6/M3	394	105	4.3	
ATLLED5/DD/M3	403	107	2.26	ATORLED4/DD/MWS	396	104	8.0		ATORPLED2X6/MWS	394	105	3.7	
ATLLED5/M3	403	107	2.26	ATORLED4/DD/MWS	S/M3 396	104	1.58		ATORPLED2X6/MWS/DI	vi3 394	105	4.8	
ATLLED5/OCTO	403	107	1.68	ATORLED4/M3	396	104	1.36		ATORPLED2X6/MWS/M	3 394	105	4.8	
ATLLED5/OCTO/M3	403	107	2.26	ATORLED4/MWS	396	104	0.8		ATORPLED2X6/OCTO	394	105	3.2	
ATLLED6	403	107	1.88	ATORLED4/MWS/M3	3 396	104	1.58		ATORPLED2X6/OCTO/D	M3 394	105	4.3	
ATLLED6/DD	403	107	1.88	ATORLED4/OCTO	396	104	0.78		ATORPLED2X6/OCTO/N	13 394	105	4.3	
ATLLED6/DD/M3	403	107	2.46	ATORLED4/OCTO/M	13 396	104	1.36		ATORPLED4	394	117	2.13	
ATLLED6/M3	403	107	2.46	ATORLED5	396	115	1.5		ATORPLED4/DD	394	117	2.13	
ATLLED6/OCTO	403	107	1.88	ATORLED5/110V	398	115	2.41		ATORPLED4/DD/DM3	394	117	3.13	
ATLLED6/OCTO/M3	403	107	2.46	ATORLED5/110V/M3	398	115	2.99		ATORPLED4/DD/M3	394	117	3.13	
ATLSQG/CH	124	N/A	0.22	ATORLED5/110V/MV	VS 398	115	2.43		ATORPLED4/DD/MWS	394	117	2.85	
ATLSQG/SC	124	N/A	0.22	ATORLED5/110V/MV	VS/M3 398	115	3.01		ATORPLED4/DD/MWS/E	M3 394	117	3.63	
ATLSQG/W	124	N/A	0.15	ATORLED5/DD	396	115	1.5		ATORPLED4/DD/MWS/N	13 394	117	3.63	
ATLVD/IP44/CH	125	N/A	0.15	ATORLED5/DD/M3	396	115	2.08		ATORPLED4/DM3	394	117	3.13	
ATLVD/IP44/SC	125	N/A	0.15	ATORLED5/DD/MWS	396	115	1.52		ATORPLED4/M3	394	117	3.13	
ATLVD/IP44/W	125	N/A	0.15	ATORLED5/DD/MWS			2.3		ATORPLED4/MWS	394	117	2.85	
ATLVOG/IP44/B	129	N/A	0.2	ATORLED5/M3	396		2.08		ATORPLED4/MWS/DN			3.63	
ATLVOG/IP44/SG	129	N/A	0.2	ATORLED5/MWS	396		1.52		ATORPLED4/MWS/M3		117	3.63	
ATLVOG/IP44/W	129	N/A	0.2	ATORLED5/MWS/M3			2.3		ATORPLED4/OCTO	394	117	2.13	
ATOPLED/B	286	55	0.2	ATORLED5/OCTO	396		1.5		ATORPLED4/OCTO/D		117	3.13	
ATOPLED/W	286	55	0.9	ATORLED5/OCTO/M			2.08		ATORPLED4/OCTO/M		117	3.13	
ATORLED/W	398	118	0.9	ATORLEDS/OCTO/M	13 396 396				ATORPLED5	394	111	2.38	
	398	118			396		1.8		ATORPLED5/DD	394		2.38	
ATORLED2/110V/MWS		_	0.77	ATORLED6/DD			1.8					3.38	
ATORLED2X2/110V	398	118	0.98	ATORLED6/DD/M3	396		2.38		ATORPLED5/DD/DM3	394	111		
ATORLED2X2/110V/MWS	398	118	1	ATORLED6/DD/MWS			1.82		ATORPLED5/DD/M3	394	111	3.38	
ATORLED2X4	396	110	1.1	ATORLED6/DD/MWS			2.6		ATORPLED5/DD/MWS		111	2.63	
ATORLED2X4/110V	396	110	1.29	ATORLED6/M3	396		2.38		ATORPLED5/DD/MWS/D		111	3.88	
ATORLED2X4/110V/M3		110	1.87	ATORLED6/MWS	396		1.82		ATORPLED5/DD/MWS/N		111	3.88	
ATORLED2X4/110V/MWS	396	110	1.31	ATORLED6/MWS/M3			2.6		ATORPLED5/DM3	394		3.38	
ATORLED2X4/110V/MWS/MX		110	1.89	ATORLED6/OCTO	396		1.8		ATORPLED5/M3	394	111	3.38	
ATORLED2X4/DD	396	110	1.1	ATORLED6/OCTO/M	13 396	109	2.38		ATORPLED5/MWS	394	111	2.63	
ATORLED2X4/DD/M3	396	110	1.68	ATORPLED2X4	396	109	2.27		ATORPLED5/MWS/DN	13 394	111	3.88	



Product Code P	age	Lm/W	Kg	Trade	Product Code	Page	Lm/W	Kg	Trade	Product Code	Page L	.m/W	Kg	Trade
ATORPLED5/MWS/M3	394	111	3.88		AULED150D/WW	64	78	1.11		AULEDRECWW/OCTO	76	85	1.5	
TORPLED5/OCTO	394	111	2.38		AULED150D/WW/DD	64		1.11		AULEDS0/CW/B	139	69	0.32	
TORPLED5/OCTO/DM3	394	111	3.38		AULED150D/WW/DD/M3			1.46		AULEDS0/CW/SS	139	69	0.32	
TORPLED5/OCTO/M3	394	111	3.38		AULED150D/WW/M3	64		1.46		AULEDS0/CW/W	139	69	0.32	
TORPLED6	394	105	2.8		AULED150D/WW/OCTO			1.40		AULEDS0/WW/B	139	63	0.32	
	394	105												
TORPLED6/DD			2.8		AULED150D/WW/OCTO		78	1.46		AULEDS0/WW/SS	139	63	0.32	
TORPLED6/DD/DM3	394	105	3.8		AULED150DHP	66		1.19		AULEDS0/WW/W	139	63	0.32	
TORPLED6/DD/M3	394	105	3.8		AULED150DHP/DD	66		1.19		AULEDS1/B	140	63	0.67	
TORPLED6/DD/MWS	394	105	2.85		AULED150DHP/DD/M3	66		2.07		AULEDS1/SS	140	63	0.67	
TORPLED6/DD/MWS/DM3	394	105	4.3		AULED150DHP/M3	66		2.07		AULEDS1/W	140	63	0.67	
TORPLED6/DD/MWS/M3	394	105	4.3		AULED150DHP/OCTO	66	95	1.19		AULEDS1/WW/B	140	63	0.67	
ATORPLED6/DM3	394	105	3.8		AULED150DHP/OCTO/N	13 66	95	2.07		AULEDS1/WW/SS	140	63	0.67	
ATORPLED6/M3	394	105	3.8		AULED150WW	73	93	0.86		AULEDS1/WW/W	140	63	0.67	
ATORPLED6/MWS	394	105	2.85		AULED150WW/DD	73	93	0.86		AULEDS2/B	142	93	0.78	
ATORPLED6/MWS/DM3	394	105	4.3		AULED150WW/OCTO	73	93	0.86		AULEDS2/SS	142	93	0.78	
TORPLED6/MWS/M3	394	105	4.3		AULED150WW/WW	73	86	0.86		AULEDS2/W	142	93	0.78	
TORPLED6/OCTO	394	105	2.8		AULED150WW/WW/DD	73	86	0.86		AULEDS2/WW/B	142	86	0.78	
TORPLED6/OCTO/DM3	394	105	3.8		AULED150WW/WW/OC	TO 73	86	0.86		AULEDS2/WW/SS	142	86	0.78	
TORPLED6/OCTO/M3	394	105	3.8		AULED175WW	75		1.21		AULEDS2/WW/W	142	86	0.78	
TRILED/B	243	87-88	1.52		AULED175WW/DD	75		1.21		AULEDS3/B	143	88	1.15	
TRILED/B/MWS	243	87-88	1.58		AULED175WW/DCTO	75		1.21		AULEDS3/SS	143	88	1.15	
TRILED/B/MWS/PC	243	87-88	1.64		AULED175WW/OCTO	75		1.21		AULEDS3/W	143	88	1.15	
TRILED/B/MWS/PC	243	87-88	1.58		AULED175WW/WW/DD	75 75		1.21		AULEDS3/WW/B	143	78		
	243	87-88			AULED175WW/WW/DD AULED175WW/WW/OC					AULEDS3/WW/SS		78 78	1.15 1.15	
TRILED/G	243	87-88	1.52		AULED175WW/WW/OC AULED2/REC	10 75 79		1.21			143		1.15	
TRILED/G/MWS			1.58					2.4		AULEDS3/WW/W	143	78		
TRILED/G/MWS/PC	243	87-88	1.64		AULED2/REC/DD	79		2.4		AULEDS4/B	144	93	1.45	
TRILED/G/PC	243	87-88	1.58		AULED2/REC/DD/M3	79		3.3		AULEDS4/SS	144	93	1.45	
TSLED/3NM	462	N/A	3.25		AULED2/REC/OCTO	79		2.4		AULEDS4/W	144	93	1.45	
TSLED/3NM/IP65/ST	461	N/A	1.8		AULED2/REC/OCTO/M3	79	88	3.3		AULEDS4/WW/B	144	88	1.45	
TURWOLED/175	349	110	2.1		AULED2/RMP	77	49	1.09		AULEDS4/WW/SS	144	88	1.45	
TURWOLED/230	350	116	2.85		AULED2/RMP/DD	77	49	1.09		AULEDS4/WW/W	144	88	1.45	
TURWOLED/70	346	45	0.45		AULED2/RMP/DD/M3	77	49	2		AULEDSW/CW/B	146	31	0.58	
TURWOLED/95	348	97	0.45		AULED2/RMP/OCTO	77	49	1.09		AULEDSW/CW/W	146	31	0.58	
UE27040/SS	313	N/A	2.04		AULED2/RMP/OCTO/M3	3 77	49	2		AULEDSW/WW/B	146	28	0.58	
AUE27040/WE	314	N/A	1.7		AULED80D	58	70	0.29		AULEDSW/WW/W	146	28	0.58	
UE27070/SS	313	N/A	3.08		AULED80D/DD	58	70	0.29		AUNIVLED	108	72	0.74	
UE27070/WE	314	N/A	2.44		AULED80D/DD/M3	58	70	1.4		AUNLED	242	37	1.7	
AULED1/SMP	77	49	0.6		AULED80D/M3	58	70	1.4		AUNLED/SG	242	37	1.7	
AULED1/SMP/DD	77	49	0.6		AULED80D/OCTO	58		0.29		AUSQLED100D/CW	68	82	0.34	
AULED1/SMP/OCTO	77	49	0.6		AULED80D/OCTO/M3	58		1.4		AUSQLED100D/CW/DD	68	82	0.34	
AULED1/SMP/OCTO/M3	77	49	1.5		AULED80D/WW	58		0.29		AUSQLED100DICW/DD/M3	68	82	0.34	
	79	88										82	0.34	
AULED1/SQU			1.22		AULED80D/WW/DD	58		0.29		AUSQLED100D/CW/M3	68			
AULED1/SQU/DD	79	88	1.22		AULED80D/WW/DD/M3	58		1.4		AUSQLED100D/CW/OCTO	68	82	0.34	
AULED1/SQU/DD/M3	79	88	2.12		AULED80D/WW/M3	58		1.4		AUSQLED100D/CW/OCTOM		82	0.34	
AULED1/SQU/OCTO	79	88	1.22		AULED80D/WW/OCTO	58		0.29		AUSQLED125D/CW	69	91	0.7	
AULED1/SQU/OCTO/M3	79	88	2.12		AULED80D/WW/OCTO/I	M3 58	60	1.4		AUSQLED125D/CW/DD	69	91	0.7	
ULED100WW	71	74	0.36		AULED80GIM	60	70	0.32		AUSQLED125D/CW/DD/M3	69	91	0.7	
ULED100WW/DD	71	74	0.36		AULED80GIM/DD	60	70	0.32		AUSQLED125D/CW/M3	69	91	0.7	
AULED100WW/OCTO	71	74	0.36		AULED80GIM/DD/M3	60	70	1.42		AUSQLED125D/CW/OCTO	69	91	0.7	
ULED100WW/WW	71	60	0.36		AULED80GIM/M3	60	70	1.42		AUSQLED125D/CW/OCTO/M	3 69	91	0.7	
ULED100WW/WW/DD	71	60	0.36		AULED80GIM/OCTO	60	70	0.32		AUSQLED150DHP/CW	70	92	0.75	
AULED100WW/WW/OCTO	71	60	0.36		AULED80GIM/OCTO/M3	60	70	1.42		AUSQLED150DHP/CW/DD	70	92	0.75	
ULED125D	63	72	0.62		AULED80GIM/WW	60	60	0.32		AUSQLED150DHP/CW/DDM/	3 70	92	0.75	
AULED125D/DD	63	72	0.62		AULED80GIM/WW/DD	60		0.32		AUSQLED150DHP/CW/M3	70	92	0.75	
AULED125D/DD/M3	63	72	1.5		AULED80GIM/WW/DD/N			1.42		AUSQLED150DHP/CW/OCTO		92	0.75	
AULED125D/DD/M3	63	72	1.5							AUSQLED150DHPCWOCTON		92	0.75	
	63	72			AULED80GIM/WW/M3	60		1.42						
ULED125D/OCTO			0.62		AULED80GIM/WW/OCT			0.32		AVASLED/B	411	88	2.15	
ULED125D/OCTO/M3	63	72	1.5		AULED80GIMWW/OCTO/N			1.42		AVASLED/B	411	88	2.15	
ULED125D/WW	63	66	0.62		AULEDGCP/CW	54		0.13		AVEGLED/1/CW	87	84	0.5	
ULED125D/WW/DD	63	66	0.62		AULEDGCP/CW/OCTO	54		0.13		AVEGLED/1/CW/M3	87	84	2.52	
ULED125D/WW/DD/M3	63	66	1.5		AULEDGCP/WW	54	32	0.13		AVEGLED/1/WW	87	82	0.5	
ULED125D/WW/M3	63	66	1.5		AULEDGCP/WW/OCTO	54	32	0.13		AVEGLED/1/WW/M3	87	82	2.52	
ULED125D/WW/OCTO	63	66	0.62		AULEDGCP1/CW	56	40	0.08		AVEGLED/2/CW	87	84	0.5	
ULED125DWW/OCTO/M3	63	66	1.5		AULEDGCP1/WW	56	38	0.08		AVEGLED/2/CW/M3	87	84	2.52	
ULED150D	64	88	1.11		AULEDGCP2/CW	56	33	0.13		AVEGLED/2/WW	87	83	0.5	
ULED150D/DD	64	88	1.11		AULEDGCP2/WW	56		0.13		AVEGLED/2/WW/M3	87	83	2.52	
ULED150D/DD/M3	64	88	1.46		AULEDGCP3/CW	56		0.13		AVENLED	435	98	4.22	
ULED150D/M3	64	88	1.46			56		0.26		AVENLED/DD	435	98	4.22	
					AULEDGCP3/WW									
ULED150D/OCTO	64	88	1.11		AULEDRECWW	76		1.5		AVENLED/DD/M3	435	98	5.31	
AULED150D/OCTO/M3	64	88	1.46		AULEDRECWW/DD	76	85	1.5		AVENLED/M3	435	98	5.31	

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Page	Lm/W	Kg	Trade
387	129	5.2	
387	129	6.9	
387	121	6.6	
387	121	4.96	
387	121	6.9	
387	N/A	0.63	
387	N/A	0.34	
150	N/A	N/A	
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Terms & Conditions

Conditions of Sale

. 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.

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.
- 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;
 - 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.
- The Customer's right to possession of the Goods shall terminate immediately if:
 - 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
- 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.
- 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

P.1 The Company warrants that (subject to the other provisions of these conditions) on

Terms & Conditions

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

- 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:
 - the Customer makes any further use of such Goods after giving such notice;
 or
 - 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:
 - for death or personal injury caused by the Company's negligence; or
 - 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.
- 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

- 8.1 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) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and repealing Directive 95/46/EC (General Data Protection Regulation) OJ L 119/1, 4.5.2016 (and any successor legislation).



Warranty Information

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, compatability 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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