

# S11

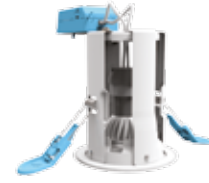
***Solutions 11***

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**1994**

Release of first catalogue



**2009**

First patented product  
(iCage - Fire Rated Technology)



**1992**

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



**2006**

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



**2009**

Ansell major expansion of Lighting Design department

**2001**

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

**1992**

First trading month £70  
(August 1992)

**2004**

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



**2006**

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

**2010**

Ansell Lighting established in Dongguan City, Southern China

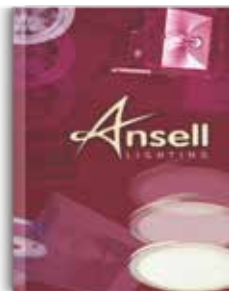


**2001**

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

**2009**

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





**2011**

Ansell Sales & Distribution re-locate to M2 Business Park, to support continued expansion

**orbio360®**  
**2013**

First AC LED Fire-Rated downlight designed



reddot award 2014 winner lighting design

**2014**

Award winning

**orbio360®**



**2017**

Ansell Lighting celebrate 25 years of trading



**2017**

Solutions 11 launched

**2012**

Became accredited member of the LIA



**2014**

ENDO Lighting Corp purchases Ansell Lighting



**2016**

Panel Pod voted best new product and marketing campaign



Panel Pod™

ewawards 2016 winner

**2017**

ENDO Lighting Corp celebrate their 50th year



# Ansell History

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



# ENDO

## LIGHTING CORP.

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

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



### Japan

Endo Lighting Corp



### Thailand

ENDO Lighting (Thailand) Public Company Limited



### Singapore

ENDO Lighting SE Asia Pte.Ltd



### Philippine

ENDO Lighting (Thailand) Public Company Limited  
Philippines Representative Office



### Delhi

Endo Lighting Accessories India Pvt.Ltd



### Pune

Endo Lighting Accessories India Pvt.Ltd



### Beijing

Endo Trade (Beijing) Shanghai Co. Ltd



### Shanghai

Endo Trade (Beijing) Shanghai Co. Ltd



### Malaysia

Endo Lighting SE Asia Pte.Ltd



### Vietnam

Endo Lighting Vietnam Co. Ltd



### USA

ICON International Inc.



### Endo Headquarters

Osaka Japan



昆山恩都照明有限公司  
KUNSHAN ENDO LIGHTING CO., LTD

**China Factory**

Opened 2004, Extended 2013 | 540,000 sq. ft



**Japan Factory**

Opened 2011 | 172,000 sq. ft



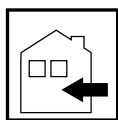
**Thailand Factory**

Opened 1991, Extended 2003, Extended 2013 | 362,000 sq. ft

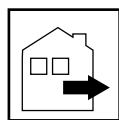
Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



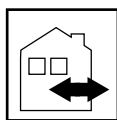
# Easy Search Icon Guide



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



Bathroom Zone 1  
BS EN 7671:2008  
Full details page 429



Bathroom Zone 2  
BS EN 7671:2008  
Full details page 429



Self-Test  
Emergency



Self-Test  
Emergency Option



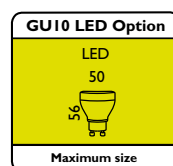
Italian Innovation  
and Design



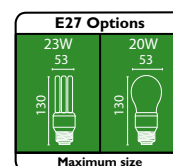
Surface Finish with the  
Appearance of Wood



Low Carbon Stainless  
Steel for Excellent  
Corrosion Resistance



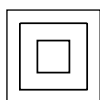
LED Energy Saving  
Lamp Options



Energy Saving  
Lamp Options



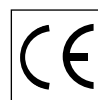
Class I  
Luminaires with  
Earth Connection



Class II  
Luminaires with  
Double Insulation



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



European Community  
Conformity

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# Ansell Lighting

## On site...



*Our website is fully optimised for use across an array of devices. Focusing on user experience we have made the site easier to navigate with improved search functionality and in-depth product information.*

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



Follow us on Twitter  
@Ansell\_Lighting



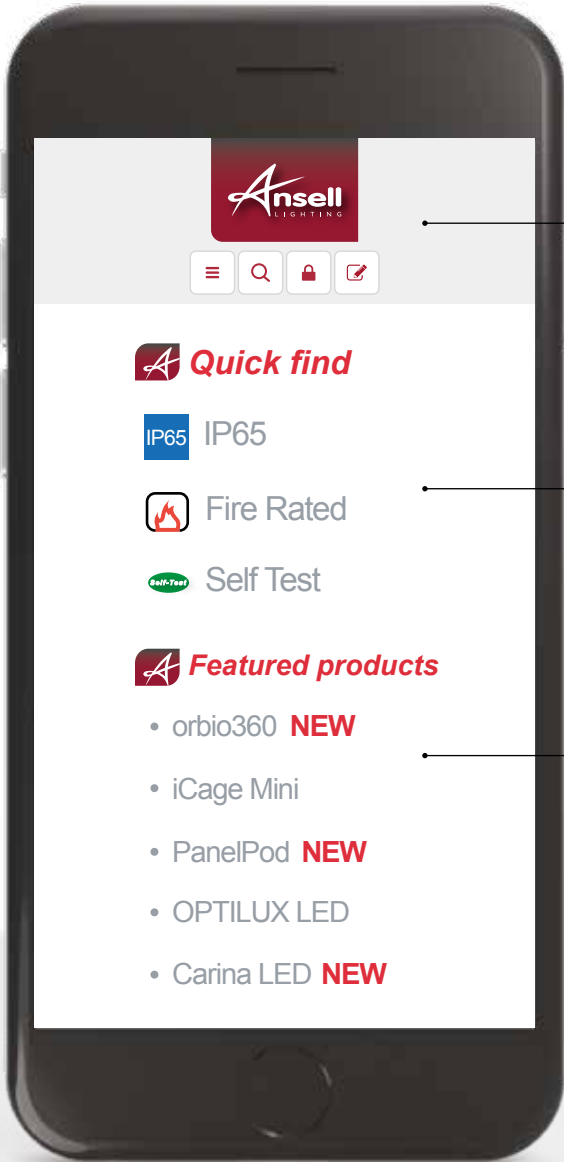
Like us on Facebook  
Search "Ansell Lighting"



Watch us on Youtube  
Search "Ansell UK"



# Ansell Lighting On the go...



## Easy Navigation

*Our responsive website can be viewed on mobile, tablet and desktop*



## Quick Find

*Find what you are looking for quick and easily*



## Featured Products

*In-depth product information for key products*

# Ansell Lighting App

*Download now from...*





**Design**



**Manufacture**



**Assembly**



**Testing**



**Next Day Delivery**

*Our extensive and efficient warehouse facilities in North West England and Belfast ensures next day delivery to most parts of the UK and Ireland. A same day collection service is also available.*

**Designed to**

# **Deliver...**

*Our commitment to product design, quality, service and stock availability are key principles of which we are extremely proud.*

*Ansell Lighting is an award-winning manufacturer of internal and external lighting solutions to the commercial, architectural, industrial and domestic markets. Our mission is to deliver innovative, energy efficient high quality lighting solutions including the very latest energy saving LED luminaires.*

*We are delighted to have won many awards, not only for our designs, but also for product reliability, value and outstanding service.*



*Our brand identity is built upon a number of key principles which include features such as:-*

- *A dynamic in-house design utilising the very latest in LED lighting technology*
- *Sustained investment in innovative product development*
- *Robust product testing to meet European lighting standards*
- *Highly trained sales and technical support teams*
- *Next day delivery to most parts of the UK through our multi-million pound stockholding*

*We trust that this latest publication will provide all the Solutions you require.*



*Final Installation Shot*



*Concept 3D Render*

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

**RELUX** member



ACCREDITED  
SUPPLIER

*A considered lighting design approach offers the opportunity to create an environment that is enhanced by energy efficient, aesthetically pleasing artificial lighting.*

*The Ansell Lighting Design Department can create the ideal solution for your project by utilising a blend of technical experience, product knowledge, aesthetic imagination and energy efficient lighting creativity.*

*The Relux lighting design programme allows us to provide a three dimensional project solution for internal and external solutions of our extensive range. Designs include illuminance plots and colour images which provide precise and accurate visual representation of the project data.*

*"We made the decision to invest in Ansell LED products when upgrading the existing fixtures in parts of our building, I can safely say we are delighted with the results. We have been able to half our energy consumption, eradicate maintenance costs and have achieved a much better light quality. The products are easy to install and I would definitely use Ansell products again".*



*Steve Wolfenden , Building Services Engineer*



## Warrington

# Visit our Showrooms

State of the art showrooms in Belfast and Warrington are available to our wholesale customers, contractors, architects and consultants. Designed for training and display, the use of leading technology provides the opportunity to see energy efficient light sources with a variety of colour temperatures and effects.

Demonstrational areas and in-situ products allows visitors to clearly identify which products have the right features for their application.

*“An opportunity not to be missed! We recently visited the Ansell showrooms and were very impressed by the comprehensive product displays and the sheer number of LED products showcased. We developed a much better understanding of Ansell’s extensive product range and it reaffirmed our decision to invest in their products”.*



## Belfast



Mike Farrell, Director

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



# New Product Overview

## Display

 <p><b>26</b></p> <p>Prism FRD Downlight Pack</p>	 <p><b>28</b></p> <p>Unity GC Pro LED Downlight</p>	 <p><b>45</b></p> <p>Unity S &amp; R Retractable LED Downlights</p>	 <p><b>50</b></p> <p>Comfort LED HP Downlight</p>
 <p><b>51</b></p> <p>Comfort LED Wallwash</p>	 <p><b>52</b></p> <p>Galaxy CCT LED Downlight</p>	 <p><b>58</b></p> <p>Bexar LED Downlight</p>	 <p><b>59</b></p> <p>Argo LED Gimbal</p>
 <p><b>60</b></p> <p>Argo LED IP65 Downlight</p>	 <p><b>72</b></p> <p>Gyro Cube LED Downlight</p>	 <p><b>83</b></p> <p>Edge GU10 FRD Downlight</p>	 <p><b>84</b></p> <p>Edge GU10 FRD Gimbal</p>
 <p><b>85</b></p> <p>Edge GU10 FRD IP65 Downlight</p>	 <p><b>105</b></p> <p>Single Circuit Unity 0 LED Mains Black</p>	 <p><b>106</b></p> <p>Single Circuit Unity 1 LED Mains Black</p>	 <p><b>107</b></p> <p>Single Circuit Unity 2 LED Mains Black</p>
 <p><b>109</b></p> <p>Single Circuit Unity 3 LED Mains Black</p>	 <p><b>110</b></p> <p>Single Circuit Unity 4 LED Mains Black</p>	 <p><b>112</b></p> <p>Single Circuit Unity Wallwash LED Mains</p>	 <p><b>119</b></p> <p>Mains Voltage 16A Three Circuit Track</p>



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Mains Voltage 16A Three  
Circuit Track Accessories



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Three Circuit Unity 0  
LED Mains



124

Three Circuit Unity 1  
LED Mains



125

Three Circuit Unity 2  
LED Mains



126

Three Circuit Unity 3  
LED Mains



127

Three Circuit Unity 4  
LED Mains



129

Druzy LED  
Pendant



130

Amber LED  
Pendant



131

Jasper LED  
Pendant



132

Jade LED  
Pendant



133

Ruby LED  
Pendant



146

Mitre LED  
Wall Light



147

Fascia LED  
Wall Light



180

Gamma LED Warm White  
Wall/Ceiling Light



182

Disco Slim LED  
Wall/Ceiling Light



183

Disco Slim Halo LED  
Wall/Ceiling Light

# New Product Overview

## Amenity





## Industrial

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## Commercial

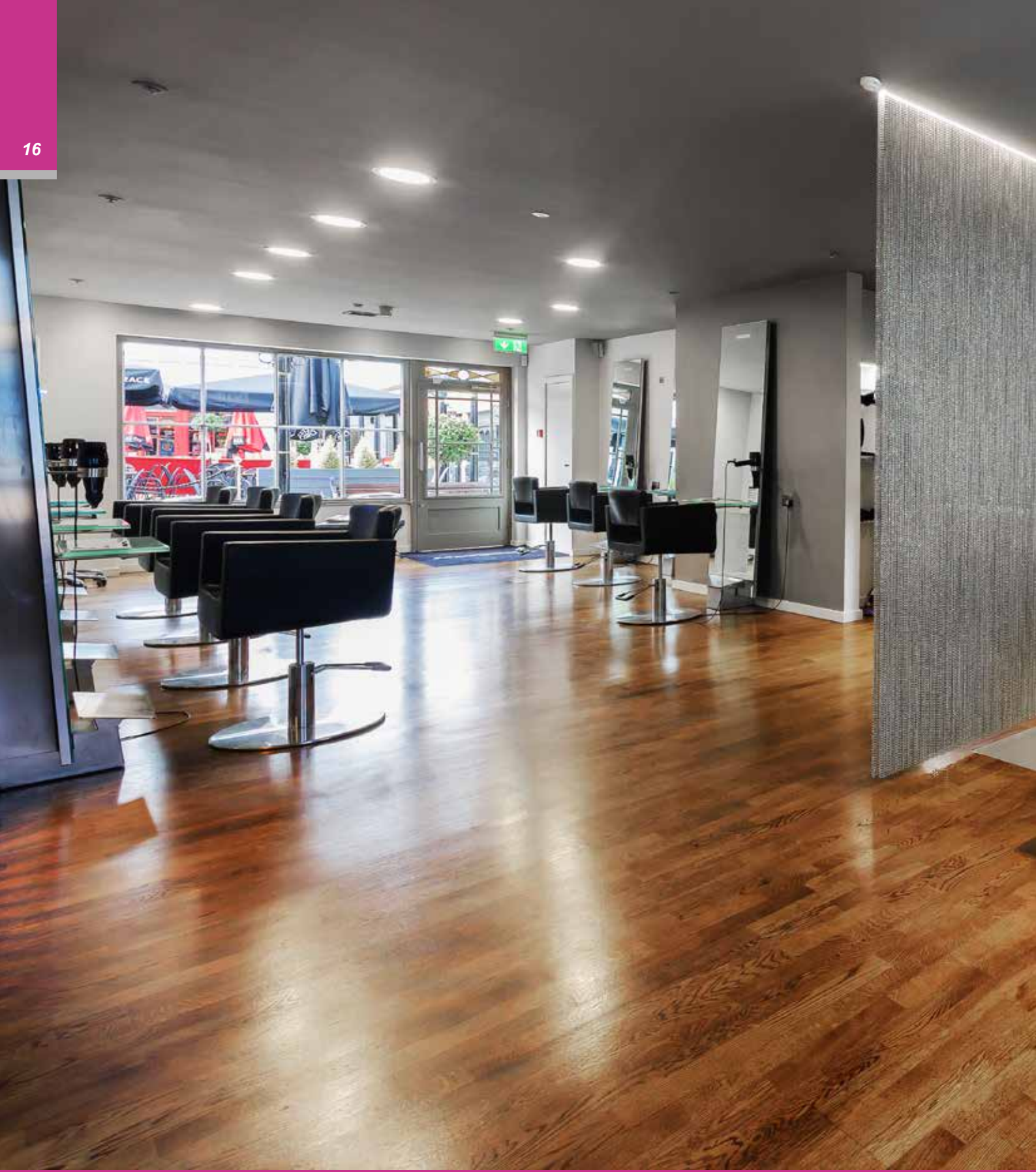
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## Emergency

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## Project

Toni & Guy Salon - Kent, UK



Comfort LED p48



Unity R LED p47



Signal LED p64



# Display

16 Product Groups | 684 Products

# Display

22



*LED Downlights*

64



*LED Emergency Downlights*

70



*Downlight Emergency Packs*

71



*LED and GU10  
Surface Downlights*

76



*Fire Rated Downlights*

86



*Die-Cast Downlights*

97



*Downlight Accessories*

98



*Single Circuit  
Track and Surface*

118



*Three Circuit  
Track and Surface*

129



Pendants

139



Wall Lights

150

LED Drivers  
and Transformers

154

LED Flexible and Rigid  
Strip Feature

166



Linklights and Cabinet

176

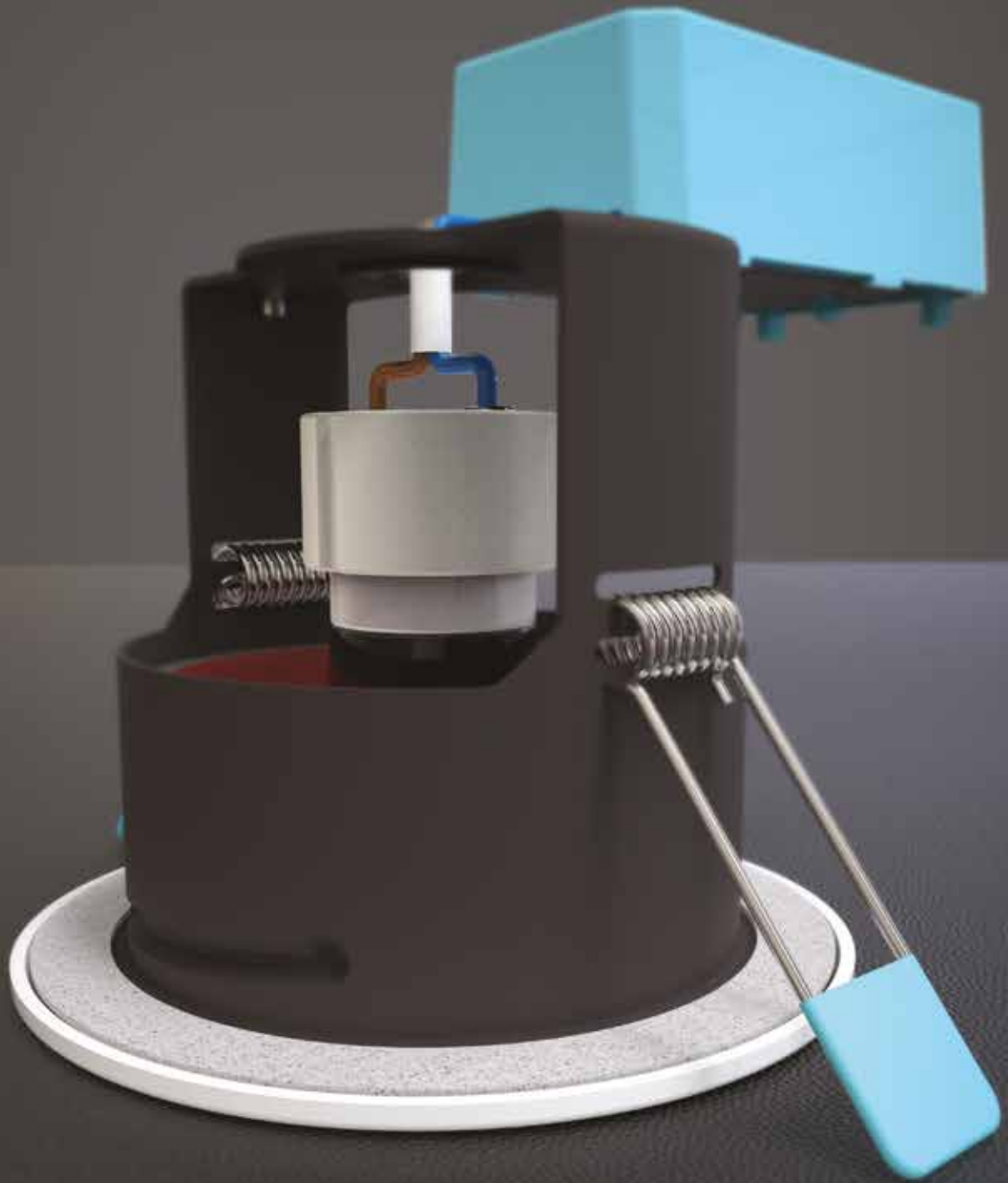


LED Plinth and Low Level

179



Bathroom Fixtures



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

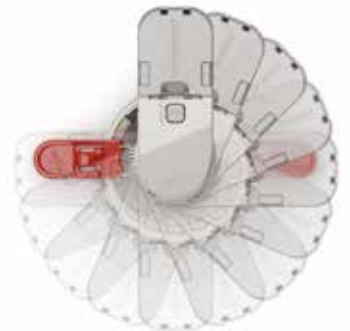


reddot award  
winner lighting design



### Low Ceiling Voids?

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



### Ceiling Joist Obstruction?

280° housing rotation allows for easy installation



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



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



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



**LIA Laboratories Verified Scheme**  
**LIA Technical Scheme Document**  
TSD-004

# Orbio 360 Downlight

AC LED (No Driver Required)



## Orbio 360 Gimbal c/w Lenses

AC LED (No Driver Required)

Advanced Directional Lens Technology allows a unique and flush unobtrusive appearance



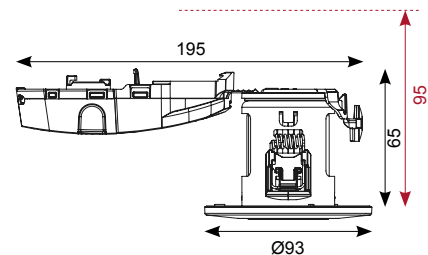
15° Beam Angle Lens Fitted



30° Beam Angle Lens Fitted



- AC230V IP65 LED fire rated downlight and gimbal 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 77 Lumens per watt exceeds the requirement of Part L and Part L2 of Building Regulations
  - LED lifespan L70 50,000 hours
- \* 7 Year Warranty applies to fittings registered online (5 Year Warranty for unregistered fittings)



95mm Overall Height with top housing attached to main body



### LED Information

Total (Watts)	9W
Lumens Delivered	
Cool White	689lm
Warm White	668lm
Lm/W Cool White	77lm
Lm/W Warm White	75lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-40°C to 45°C

	Code	Lamp	Description
Downlight	AORBLED/CW	LED	9W - Cool White
	AORBLED/WW	LED	9W - Warm White
Gimbal	AORBLED/GIM/CW	LED	9W - Cool White
	AORBLED/GIM/WW	LED	9W - Warm White





# Orbio 360 Accessories

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



AORBLED/DIMMER



ALEDCP  
(Matt White, Chrome and Satin Chrome)



ACFLP/3



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



AORBLEDZSQ/MW



AORBLEDZSQ/CH



AORBLEDZSQ/AB



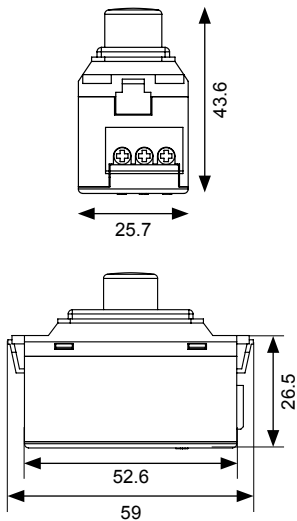
AORBLEDZSQ/BR



AORBLEDZSQ/SC



AORBLEDZSQ/BLC



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



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

Code	Description
<b>AORBLED/DIMMER</b>	2 Way Push/Push
<b>AORBLEDZ/BR</b>	Brass Trim Bezel
<b>AORBLEDZ/CH</b>	Chrome Gloss Trim Bezel
<b>AORBLEDZ/SC</b>	Satin Chrome Trim Bezel
<b>AORBLEDZ/AB</b>	Antique Brass Trim Bezel
<b>AORBLEDZ/BLC</b>	Black Chrome Trim Bezel
<b>AORBLEDZ/SQ/MW</b>	Matt White Square Trim Bezel
<b>AORBLEDZ/SQ/BR</b>	Brass Square Trim Bezel
<b>AORBLEDZ/SQ/CH</b>	Chrome Gloss Square Trim Bezel
<b>AORBLEDZ/SQ/SC</b>	Satin Chrome Square Trim Bezel
<b>AORBLEDZ/SQ/AB</b>	Antique Brass Square Trim Bezel
<b>AORBLEDZ/SQ/BLC</b>	Black Chrome Square Trim Bezel
<b>ALEDZCP/MW</b>	Matt White Converter Kit
<b>ALEDZCP/CH</b>	Chrome Converter Kit
<b>ALEDZCP/SC</b>	Satin Chrome Converter Kit
<b>ACFLP/3</b>	Maintained / Non-Maintained Remote Emergency

# Prism LED Fire Rated Downlight

Supplied c/w Integral Driver



Easy wiring access

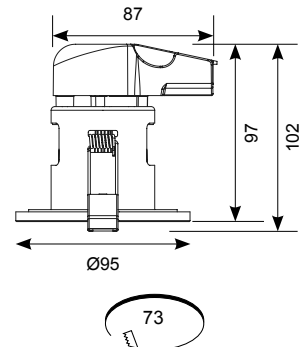
- LED dimmable fire-rated downlight for domestic applications
- Supplied with matt white bezel as standard
- Integral driver with push-fit loop-in, loop-out terminals for ease and speed of installation
- Fully tested for 30, 60 and 90 minute ceiling types to meet Part B of Building Regulations
- Fully tested to meet Part C (moisture) and Part E (acoustic) of Building Regulations
- Wide 60° beam angle for increased light distribution
- LED lifespan L70 40,000 hours

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

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



Matt White Bezel fitted as standard



Chrome Trim Bezel Accessory



Satin Chrome Trim Bezel Accessory

### LED Information

Total (Watts)	7.3W
Lumens Delivered	
Cool White	715lm
Warm White	712lm
Lm/W Cool White	98lm
Lm/W Warm White	96lm
Beam Angle	60°
CRI	Ra 80
CCT	4000K 3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 30°C

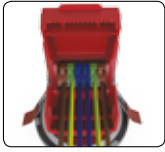
Code	Lamp	Description
<b>APRILED/CW</b>	LED	7.3W - Cool White
<b>APRILED/WW</b>	LED	7.3W - Warm White

<b>Trim Bezels</b>	<b>APRILEDBZ/CH</b>	Chrome Trim Bezel
	<b>APRILEDBZ/SC</b>	Satin Chrome Trim Bezel

<b>Dimmer</b>	<b>AORBLEDDIMMER</b>	2 Way Push/Push
---------------	----------------------	-----------------



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



Ergonomic moulded terminal housing

Steel body housing

Unique heat sink design for optimum heat dissipation

Intumescent fire barrier

Optimum contact between heatsink and LED for maximum thermal performance

Sturdy spring clips with protective covers

High efficiency LED light engine

Precision engineered reflector for enhanced light distribution

IP65 silicon seal  
Part C and E compliant

Acoustic cushion

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

## Product Certification



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



**Part C**

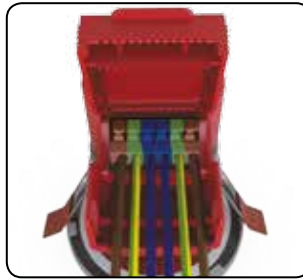


**Part E**



# Prism LED Fire Rated Downlight Pack

Supplied c/w Integral Driver and Bezel Accessories



Easy wiring access



Colour temperature select switch



Matt White Bezel fitted as standard



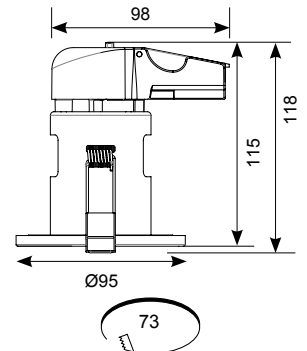
Chrome Trim Bezel supplied as standard



Satin Chrome Trim Bezel supplied as standard

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

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



### 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 Daylight	6000K
CCT Cool White	4000K
CCT Warm White	3000K
Input	230V
Hertz	50Hz
Operating Temp	-5°C to 30°C

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





# One Product... Nine Choices

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

6000K

4000K

3000K



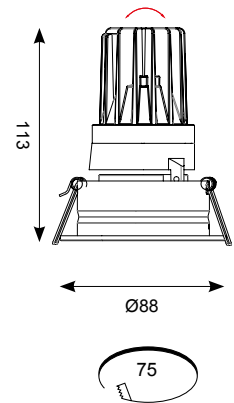
# Unity GC Pro LED Downlight

Supplied c/w Remote Driver

28



- Compact high performance professional adjustable downlight
- 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
- Deep cut-off angle for glare control and comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours



30° tilt angle adjustability

## LED Information

Total (Watts)	10W
Lumens Delivered	
Cool White	365lm
Warm White	317lm
Lm/W Cool White	37lm
Lm/W Warm White	32lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

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



Aluminium heatsink for optimum thermal management to ensure long lifetime cycle

High quality OSRAM LED Light engine

Honeycombe diffuser structure designed to provide uniform light effect and excellent uniformity

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

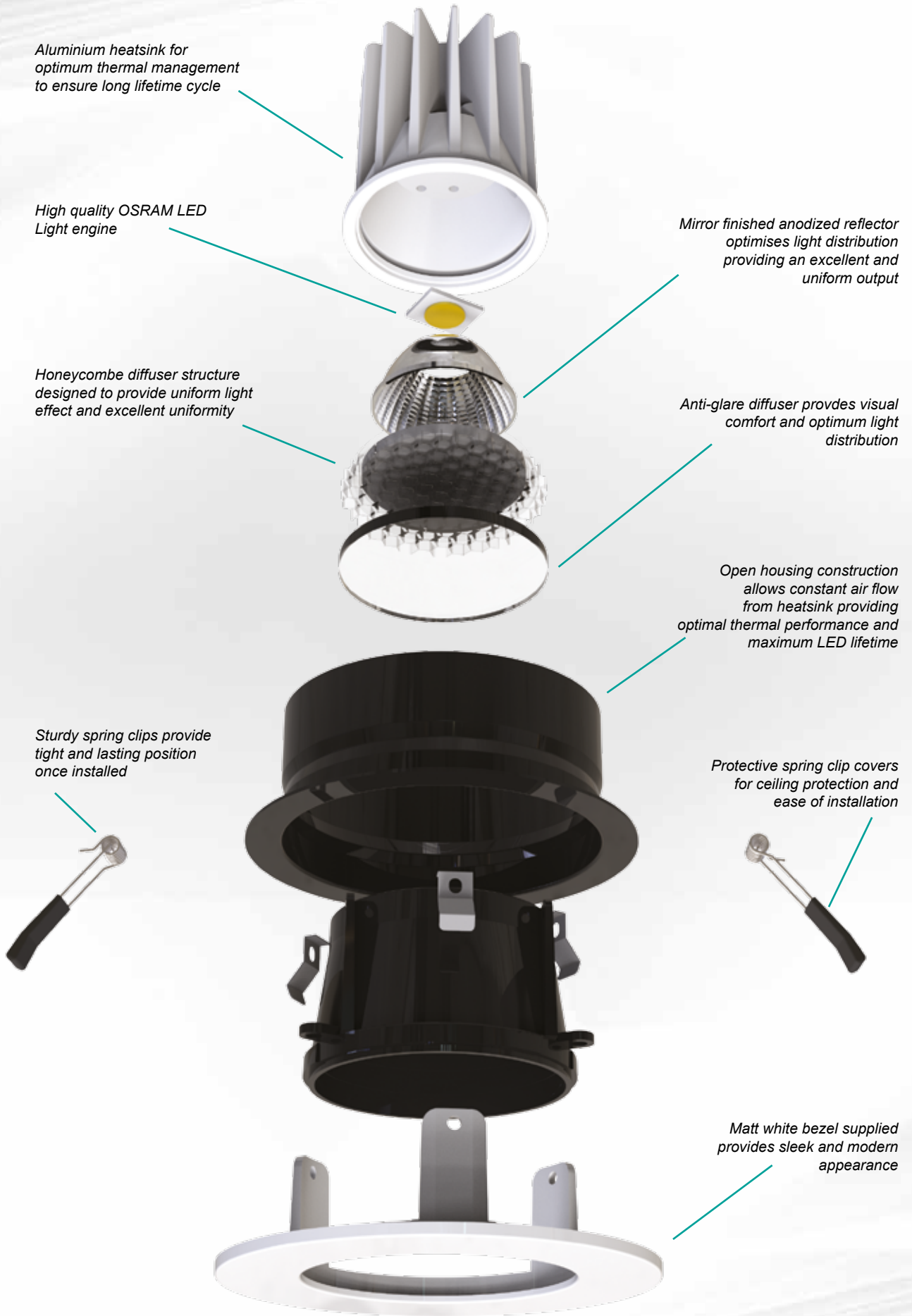
Anti-glare diffuser provides visual comfort and optimum light distribution

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



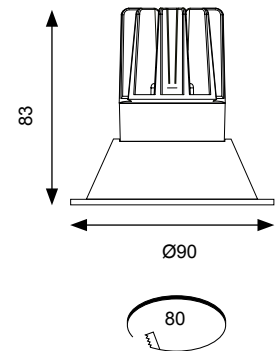
# Unity 80 LED Downlight

Supplied c/w Remote Driver



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



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

Options		
<b>/M3</b>		Emergency
<b>/DD</b>		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency

### LED Information

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



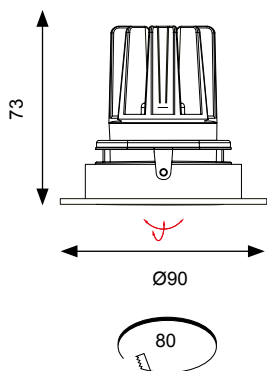


# Unity 80 LED Gimbal

Supplied c/w Remote Driver



- 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



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### LED Information

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

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

Options	Code	Description
	/M3	Emergency
	/DD	Digital Dimming
	DD/M3	Digital Dimming Emergency





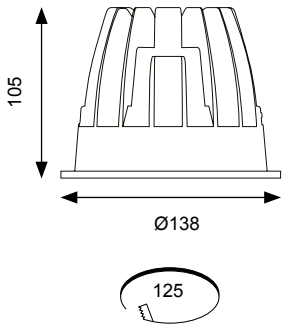
**Project - Ocean BMW**  
Falmouth, UK

# Unity 125 LED Downlight

Supplied c/w Remote Driver



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



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## LED Information

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

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

Options		
<b>/M3</b>		Emergency
<b>/DD</b>		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency



# Unity 150 LED Downlight

Supplied c/w Remote Driver

34

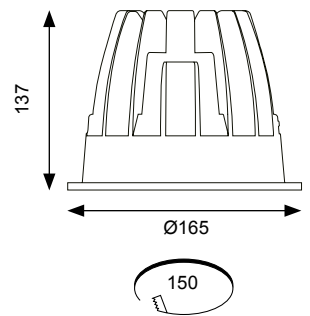


5YR

ZONE 2



- 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



## LED Information

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

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

Options		
/M3		Emergency
/DD		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency



Aluminium heatsink for optimum thermal management to ensure long lifetime cycle

Sturdy spring clips provide tight and lasting position once installed

Protective spring clip covers for ceiling protection and ease of installation

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

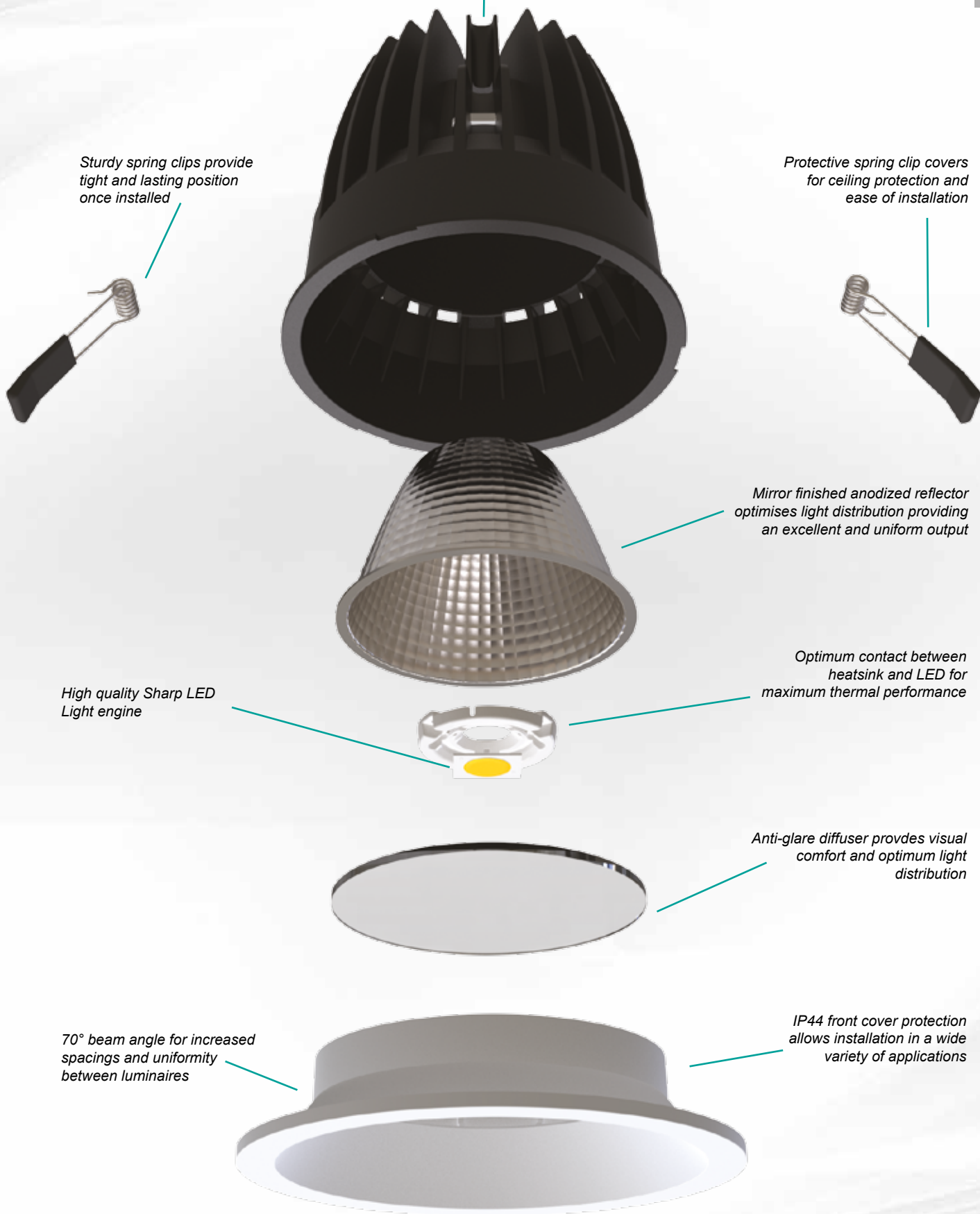
High quality Sharp LED Light engine

Optimum contact between heatsink and LED for maximum thermal performance

Anti-glare diffuser provides visual comfort and optimum light distribution

70° beam angle for increased spacings and uniformity between luminaires

IP44 front cover protection allows installation in a wide variety of applications



# Unity 150 DHP LED Downlight

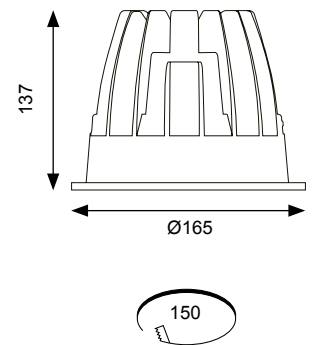
Supplied c/w Remote Driver



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



Code	Lamp	Description
<b>AULED150DHP</b>	LED	41W - Cool White

Options		
<b>/M3</b>		Emergency
<b>/DD</b>		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency

### LED Information

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

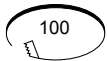
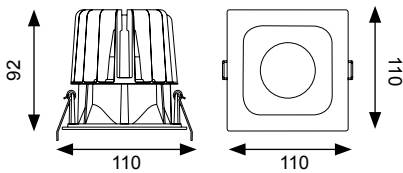


# Unity 100 Square LED Downlight

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
- 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



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## LED Information

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



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

Options		
<b>/M3</b>		Emergency
<b>/DD</b>		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency

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



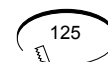
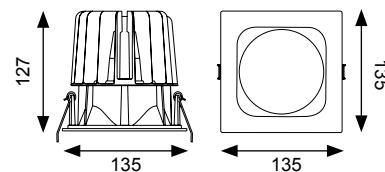
# Unity 125 Square LED Downlight

Supplied c/w Remote Driver



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



### LED Information

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

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

Options		
/M3		Emergency
/DD		Digital Dimming
DD/M3		Digital Dimming Emergency



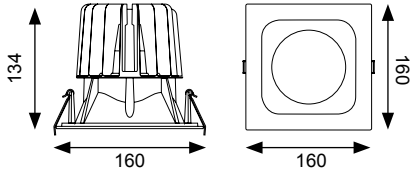


# Unity 150 Square LED Downlight

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 metal halide
- Mirror finished anodized reflector
- Anti-glare design to create visual comfort
- Remote driver with plug and play connection
- LED lifespan L70 50,000 hours
- Dimmable and emergency options



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## LED Information

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

Code	Lamp	Description
<b>AUSQLED150DHP/CW</b>	LED	41W - Cool White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/DD</b>	Digital Dimming
	<b>DD/M3</b>	Digital Dimming Emergency



# Unity 100 LED Wallwash

Supplied c/w Remote Driver

40

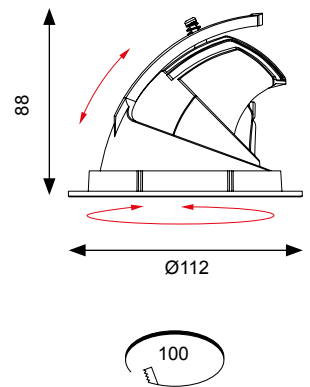


reddot award  
winner lighting design

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



### LED Information

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

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



# Unity 150 LED Wallwash

Supplied c/w Remote Driver

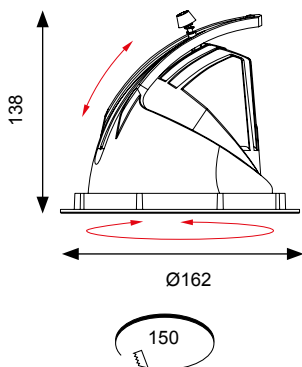


- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Comparable performance to 70W HQI
- Die-cast aluminium body and heatsink for good thermal management
- Remote driver with plug and play connection
- LED lifespan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



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### 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 50°C



### Angle Variant Options



Code	Lamp	Description
<b>AULED150WW</b>	LED	29W - Cool White
<b>AULED150WW/WW</b>	LED	29W - Warm White

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Belfast: +44 (0) 2890 773750



# Unity 175 LED Wallwash

Supplied c/w Remote Driver

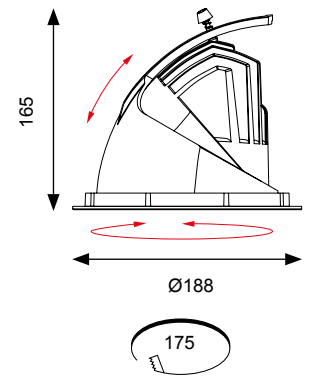


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- Recessed adjustable wallwash with 355° rotation
- Adjustable tilt angle from -15° to 45°
- 30° cut-off angle in the horizontal position
- Comparable performance to 100W HQI
- Die-cast aluminium body and heatsink for good thermal management
- Remote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



### LED Information

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

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





**Project - Bench Retail Store**  
Ashfield, UK

# Unity Rectangular LED Wallwash

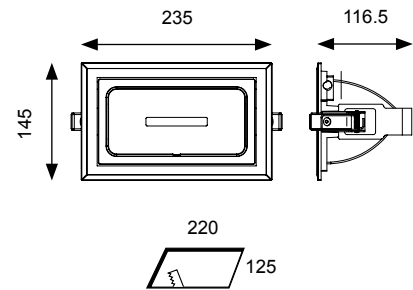
Supplied c/w Remote Driver

44



- 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
- Non-dimmable

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## LED Information

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

Code	Lamp	Description
<b>AULEDRECWW</b>	LED	35W - Cool White



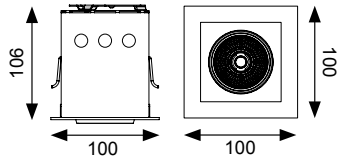
# Unity S and R Retractable LED Downlights

Supplied c/w Remote Driver

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



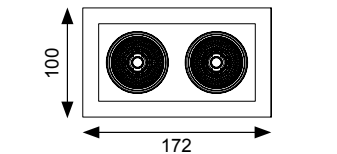
AULED1/SMP



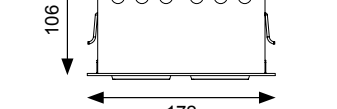
AULED1/SMP  
90



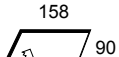
Fully retractable head with 360° rotation and 90° tilting capability



AULED2/RMP  
158



AULED2/RMP  
158



AULED2/RMP



## LED Information

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

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



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





**Project - Toni & Guy**  
Canterbury, UK

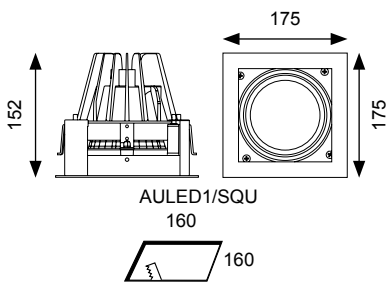


# Unity S and R LED Downlights

Supplied c/w Remote Driver

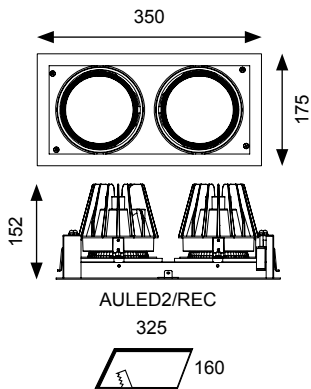


- Recessed adjustable downlight
- Fully adjustable tilt angle 30° on two axis
- Comparable performance to 50W HQI
- Black trim provides excellent glare control
- Steel housing with die-cast aluminium body for good thermal management
- Remote driver with plug and play connection
- LED lifespan L80 50,000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



AULED1/SQU

Powered by



AULED2/REC

### LED Information

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



Code	Lamp	Description
AULED1/SQU	LED	37W - Cool White
AULED2/REC	LED	2 x37W - Cool White



# Comfort LED Downlight

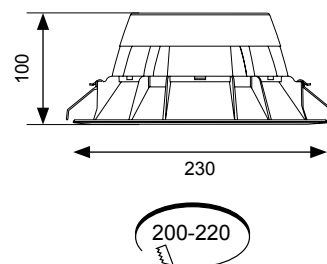
Supplied c/w Remote Driver

48



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- 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



Code	Lamp	Description
<b>ACOLED1/CW</b>	LED	21W - Cool White
<b>ACOLED2/CW</b>	LED	29W - Cool White
<b>ACOLED1/WW</b>	LED	21W - Warm White
<b>ACOLED2/WW</b>	LED	29W - Warm White

Options		
<b>/M3</b>		Emergency
<b>/DD</b>		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency

### LED Information

Total (Watts)	21W	29W
Lumens Delivered		
Cool White	2070lm	2121lm
Warm White	1666lm	2114lm
Lm/W Cool White	99lm	73lm
Lm/W Warm White	80lm	73lm
Beam Angle	80°	
CRI	Ra 80	
CCT	4000K 3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to 50°C	





**Project - The Quays Shopping Centre**  
Newry, UK

# Comfort LED HP Downlight

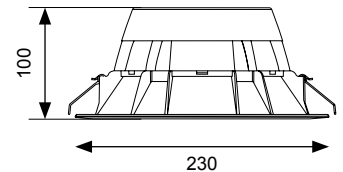
Supplied c/w Remote Driver

50



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- 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



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

Options		
<b>/M3</b>		Emergency
<b>/DD</b>		Digital Dimming
<b>DD/M3</b>		Digital Dimming Emergency

## LED Information

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

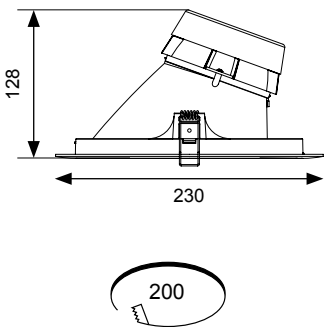


# Comfort LED Wallwash

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



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## Light Output Distribution



### LED Information

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



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

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



# Galaxy CCT LED Downlight

Supplied c/w Remote Driver

52

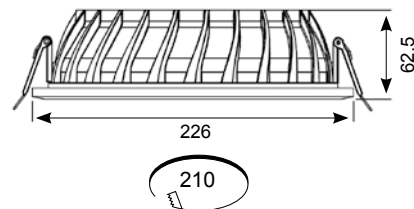


AGALED/1/W



AGALED/1/W  
with drop glass attachment installed

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



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

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

Options		
/M3	Remote Emergency	
/DD	LED Dimmable	
/DD/M3	LED Dimmable Emergency	

Trim Bezel		
AGPL/TB/CH	Twist On Trim Bezel - Chrome	
AGPL/TB/SC	Twist On Trim Bezel - Satin Chrome	

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

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

## LED Information

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



# Galaxy LED CCT Selectable

The Galaxy LED CCT Selectable Downlight houses an integrated switch which allows the installer the choice of 3000K and 4000K colour temperatures



4000K



3000K





**Project - Eddie Stobart**  
Carlisle, UK

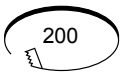
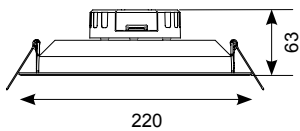


# Vega LED Downlight

Supplied c/w Integral Driver



- Economic LED replacement for higher output PLC downlights
- Low profile design with integral driver for speed of installation
- 17W LED comparable to 2x18W PLC
- 23W LED comparable to 2x26W PLC
- LED lifespan L70 36,000 hours
- Non-dimmable



AVEGLED/1/WW



Low Profile Design



AVEGLED/1/CW

## LED Information

Total (Watts)	17W	
	23W	
Lumens Delivered		
Cool White	1435lm	1946lm
Warm White	1389lm	1860lm
Lm/W Cool White	84lm	84lm
Lm/W Warm White	84lm	83lm
Beam Angle	120°	
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-20°C to 40°C	

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

Option	/M3	Emergency
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# Freska LED Downlight

Supplied c/w Remote Driver



AFRLLED230/CW



AFRLLED170/CW



AFRLLED125/CW



Self-Test Emergency Pack

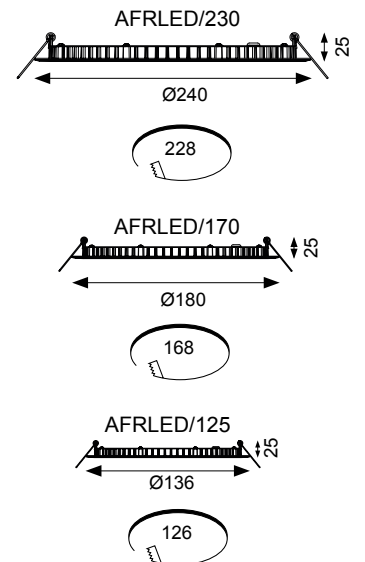
**Ultra-Slim 25mm Profile Depth**

Code	Lamp	Description
AFRLLED125/CW	LED	10W - Cool White
AFRLLED170/CW	LED	13W - Cool White
AFRLLED230/CW	LED	19W - Cool White
AFRLLED125/WW	LED	10W - Warm White
AFRLLED170/WW	LED	13W - Warm White
AFRLLED230/WW	LED	19W - Warm White

Option	AFRLLED/M3/ST	Self-Test Emergency Pack
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Accessory	ASBP/12	7.2V 3000mAh Ni-cd Replacement Battery
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- Economic ultra-slim circular LED downlight
- Ideal for use in areas with shallow ceiling void
- Remote driver with plug and play connection
- Edge lit providing excellent uniform illumination
- 10W comparable performance to 13W PLC
- 13W comparable performance to 18W PLC
- 19W comparable performance to 26W PLC
- LED lifespan L70 40,000 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	66lm	59lm	
Lm/W 13W	70lm	61lm	
Lm/W 19W	64lm	61lm	
CRI	Ra 80		
CCT Cool White	4000K		
CCT Warm White	3000K		
Input	230V		
Hertz	50/60Hz		
Operating Temp	-20°C to 40°C		





**MANGUARD**  
PLUS

**Project - Manguard Plus**  
County Kildare, Ireland

# Bexar LED Downlight

Supplied c/w Integral Driver



ABXLED190/CW



ABXLED140/CW



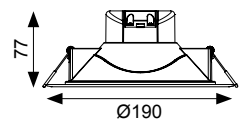
ABXLED110/CW



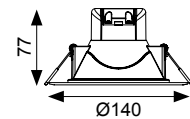
ABXLED100/WW



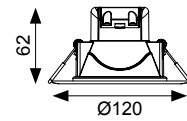
- Economic polycarbonate circular LED downlight
- Low profile design with integral driver with loop-in, loop-out terminals for ease and speed of installation
- Edge lit providing excellent uniform illumination
- 5W exceeds performance of 20W halogen
- 7W comparable performance to 35W halogen
- 12W comparable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



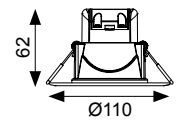
160-170  
ABXLED190



110-120  
ABXLED140



80-90  
ABXLED110



70-80  
ABXLED100

## LED Information

	Cool White	Warm White
Total (Watts)	5W 7W	12W 19W

Lumens Delivered		
5W	403lm	371lm
7W	587lm	576lm
12W	875lm	857lm
19W	1657lm	1620lm

Lm/W 5W	80lm	74lm
Lm/W 7W	84lm	82lm
Lm/W 12W	73lm	71lm
Lm/W 19W	87lm	85lm

Beam Angle 100°

CRI Ra 80

CCT Cool White 4000K

CCT Warm White 3000K

Input 220V - 240V

Hertz 50/60Hz

Operating Temp -10°C to 45°C

Code	Lamp	Description
ABXLED100/CW	LED	5W - Cool White
ABXLED110/CW	LED	7W - Cool White
ABXLED140/CW	LED	12W - Cool White
ABXLED190/CW	LED	19W - Cool White
ABXLED100/WW	LED	5W - Warm White
ABXLED110/WW	LED	7W - Warm White
ABXLED140/WW	LED	12W - Warm White
ABXLED190/WW	LED	19W - Warm White
Accessory ASLED/3NM	LED	1.5W Non-Maintained



# Argo LED IP65 Downlight

Supplied c/w Integral Driver

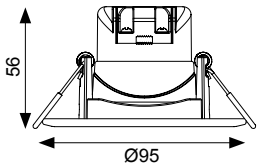
- Compact polycarbonate LED downlight
- IP65 rating as standard allows for a range of installation applications
- Low profile design with integral driver with loop-in, loop-out terminals for ease and speed of installation
- Option of chrome and satin chrome bezel accessories
- Exceeds performance of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



AARGD/CW



AARGD/WW



Chrome Trim Bezel Accessory



Satin Chrome Trim Bezel Accessory

## LED Information

Total (Watts)	5W
Lumens Delivered	
Cool White	438lm
Warm White	427lm
Lm/W Cool White	87lm
Lm/W Warm White	85lm
Beam Angle	60°
CRI	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
Input	220V - 240V
Hertz	50/60Hz
Operating Temp	- 10°C to 45°C

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

<b>Accessories</b>	<b>AARGD/IP65BEZ/CH</b>	Chrome Trim Bezel
	<b>AARGD/IP65BEZ/SC</b>	Satin Chrome Trim Bezel



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



# Argo LED Gimbal

Supplied c/w Integral Driver

60



AARG/GIM/CW/W



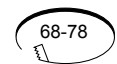
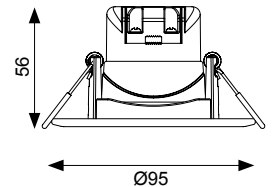
AARG/GIM/CW/CH



AARG/GIM/CW/SC



- 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



## LED Information

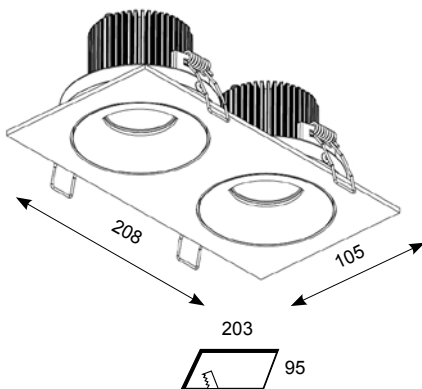
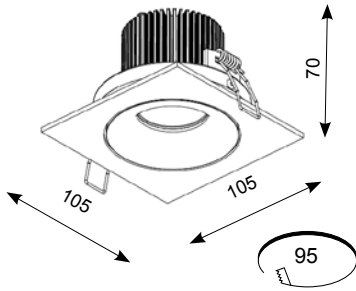
Total (Watts)	5W
Lumens Delivered	
Cool White	460lm
Warm White	400lm
Lm/W Cool White	92lm
Lm/W Warm White	80lm
Beam Angle	36°
CRI	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
Input	220V - 240V
Hertz	50/60Hz
Operating Temp	-10°C to 45°C

Code	Lamp	Description
AARG/GIM/CW/W	LED	5W - Cool White - White
AARG/GIM/CW/CH	LED	5W - Cool White - Chrome
AARG/GIM/CW/SC	LED	5W - Cool White - Satin Chrome
AARG/GIM/WW/W	LED	5W - Warm White - White
AARG/GIM/WW/CH	LED	5W - Warm White - Chrome
AARG/GIM/WW/SC	LED	5W - Warm White - Satin Chrome





- 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



ACDLEDX1



ACDLEDX2

**LED Information**

Total (Watts)	1x8W 2x8W
Lumens Delivered	361lm 723lm
Lm/W	45lm
Beam Angle	30°
CRI	Ra 80
CCT	3000K
Input	350mA
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



Code	Lamp	Description
<b>ACDLEDX1</b>	LED	1 x 8W - Warm White
<b>ACDLEDX2</b>	LED	2 x 8W - Warm White

Accessories	Code	Description
	<b>AD9W/350</b>	9W 350mA LED Driver
	<b>ADK20W/350</b>	20W 350mA LED Driver
	<b>AMCD25W</b>	15W 350mA Dimmable LED Driver
	<b>AMCD50W</b>	25W 350mA Dimmable LED Driver



# Iris LED

Supplied Less Driver



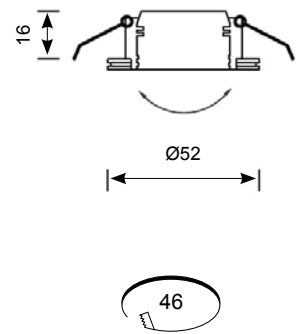
AIGLED/CW



AIGLED/WW

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

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



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

Accessories	Code	Description
	<b>AD3W/700</b>	3W 700mA LED Driver
	<b>ADK12W/700</b>	12W 700mA LED Driver
	<b>ADK20W/700</b>	20W 700mA LED Driver
	<b>ACCC350/700</b>	18W Constant Current 6 Way Connector
	<b>AMCD25W</b>	25W 700mA Dimmable LED Driver
	<b>AMCD50W</b>	50W 700mA Dimmable LED Driver

### LED Information

Total (Watts)	3W
Lumens Delivered	
Cool White	94lm
Warm White	84lm
Lm/W Cool White	31lm
Lm/W Warm White	28lm
Beam Angle	24°
CRI	Ra 80
CCT	4000K
	3000K
Input	700mA
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

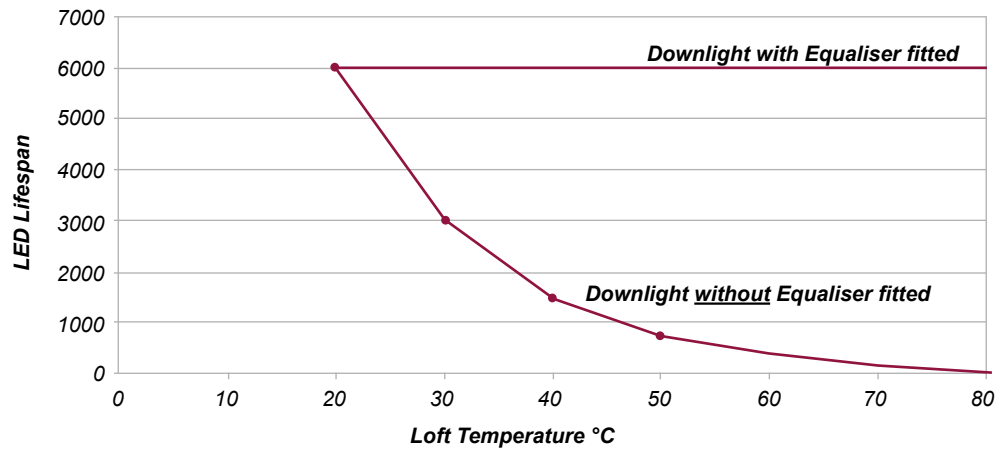
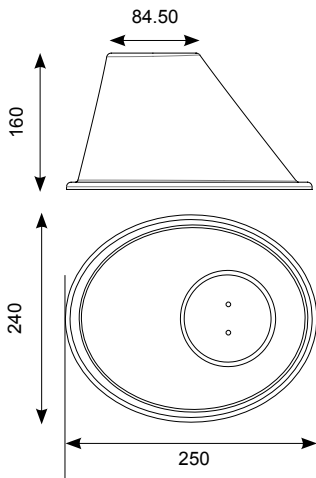
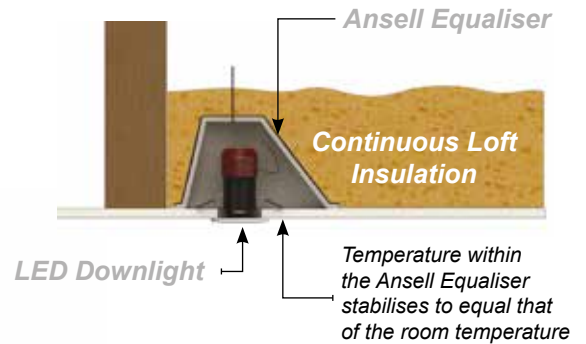




# Equaliser LED Downlight Temperature Regulator

- Equaliser regulates the running temperature of an LED downlight even when covered by insulation material
- Prevents premature LED failure from over heating
- Maximises light output and lifespan of recessed LED light source
- Allows the placing of continuous loft insulation to comply to Part L of Building Regulations **(Meets NHBC Airtightness Requirements)**
- Fire resistant to BSEN1363-1
- Air tightness testing
- IP60 particle ingress test compliant
- ECO and Greendeal compliant

## Typical Loft Installation



**This graph shows that when the LED is covered with Equaliser, the temperature of the LED remains virtually constant when subjected to varying ambient temperatures. This ensures that the LED runs at the optimum temperature and maintains its lifespan**

*Data taken from Report No: L13178 Lighting Industry Association (Environmental Testing of a Luminaire for Lumen Output)*

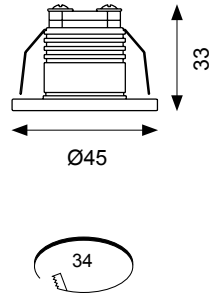


Code	Description
AEQTCC	LED Downlight Temperature Control Cover



# Signal LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack



- Economic and compact LED Non-Maintained fixed downlight
- White powder coat paint finish
- LED combines power and green charge indicator
- 3 hour emergency output
- 120° beam angle

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

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

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

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	3.3	6.5	3.3	6.5	
4	3.1	8.3	3.1	8.3	
6	-	-	-	-	

***	Open (Anti-Panic) area (0.5 Lux Minimum) **				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	3.1	6.7	3.1	6.7	
4	3.4	8.6	3.4	8.6	
6	3	9	3	9	

## LED Information

Total (Watts)	1.5W
Lumens Delivered	
Emergency Mode	124lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 45°C

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

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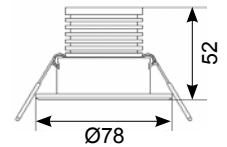


# Beacon LED Emergency Adjustable Downlight

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
- 120° beam angle



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

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

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

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.3	6.5	3.3	6.5
4	3.1	8.3	3.1	8.3
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.1	6.7	3.1	6.7
4	3.4	8.6	3.4	8.6
6	3.5	10	3.5	10

**LED Information**

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	136lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 45°C

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

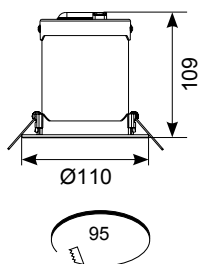
Accessory	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery
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# Raven LED Emergency Downlight

Supplied c/w Integral Driver and Battery Pack

- 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



Emergency downlight with integral inverter and battery pack



Escape Route



Open Area

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

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

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

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.5	8	3.5	8
4	3.5	8.5	3.5	8.5
**	**	**	**	**

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.3	7	3.3	7
4	3.5	8.8	3.5	8.8
6	3.5	9.5	3.5	9.5

**LED Information**

Total (Watts)	3W
Lumens Delivered	
Emergency Mode	
Open Area	176lm
Escape Route	224lm
Beam Angle	
Open Area	49.3°
Escape Route	62.4°
CCT	6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

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

<b>Accessory</b>	<b>ASBP/14</b>	3.7V 2.6Ah Li-ION Replacement Battery	
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# Merlin LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

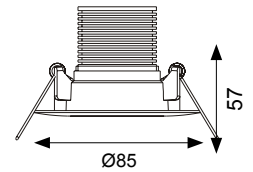


Escape Route



Open Area

- 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 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

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

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)	6	14.2	6	14.2
2.5	6	14.2	6	14.2
4	8	19.5	8	19.5
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)	2.7	6.9	2.7	6.9
2.5	2.7	6.9	2.7	6.9
4	4	10	4	10
6	4.5	10	4.5	10

### LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	
Open Area	277lm
Escape Route	227lm
Beam Angle	
Open Area	108°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 45°C

Code	Lamp	Description
<b>Self-Test</b> AMELED/ER/3NM/ST	LED	5W Non-Maintained - Escape Route
AMELED/OA/3NM/ST	LED	5W Non-Maintained - Open Area
<b>Accessory</b> ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery	

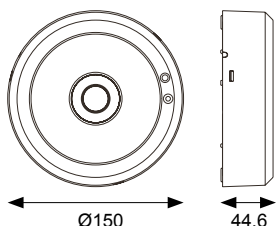


# Falcon LED Surface Emergency Downlight

Supplied c/w Integral Driver and Battery Pack



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



Escape Route



Open Area

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

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

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

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)				
2.5	-	-	6	12
4	-	-	7.8	16.8
-	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)				
2.5	3.3	7.4	3.3	7.4
4	3.9	9	3.9	9
6	4	9.5	4	9.5

**LED Information**

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	
Open Area	152lm
Escape Route	140lm
Beam Angle	
Open Area	108°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

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

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



# LED/CFL Emergency Lighting Pack

70



ACFLP/3

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

### GU10 LED Lamps

Minimum: 3W

Maximum: 8W

### GU10 CFL Lamps

Minimum: 11W

Maximum: 14W

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

# Low Voltage Emergency Lighting Pack



ALVP/3M

- 60mm cut-out aperture
- Will provide 1 hour duration on 50W lamp and 3 hours duration on 20W lamp
- For use with halogen light sources only

Code	Description
ACFLP/3	Maintained / Non-Maintained - CFL/LED
ALVP/3M	Maintained - Low Voltage



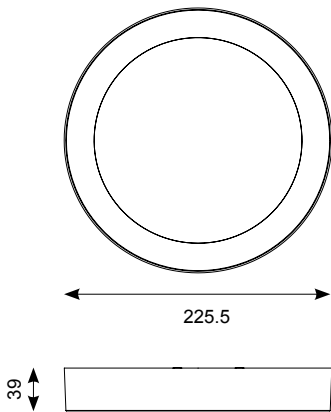


# Freska Surface LED Downlight

Supplied c/w Integral Driver



- 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 60,000 hours
- Non-dimmable



### LED Information

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



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



# Gyro Cube Surface LED Downlight

Supplied c/w Integral Driver



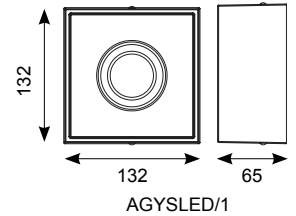
AGYSLED/1

Powered by  
**TRIDONIC**  
enlightening your ideas

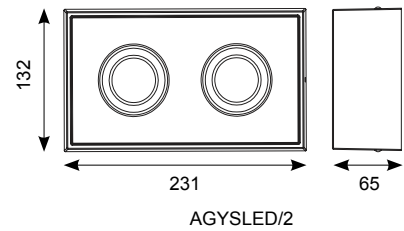


AGYSLED/2

- 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



AGYSLED/1



AGYSLED/2

### LED Information

Total (Watts)	7W
	13W
<b>Lumens Delivered</b>	
7W	540lm
13W	1060lm
Lm/W 7W	77lm
Lm/W 13W	82lm
Beam Angle	36°
CRI	Ra 90
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
AGYSLED/1	LED	7W - Warm White
AGYSLED/2	LED	13W - Warm White





# Uni LED

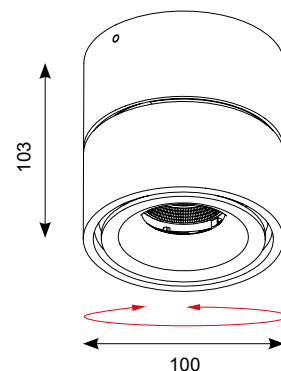
Supplied c/w Integral Driver

74



Fully adjustable to 90°

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



### LED Information

Total (Watts)	9W
Lumens Delivered	645lm
Lm/W	72lm
Beam Angle	45°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AUNIVLED	LED	9W - Warm White

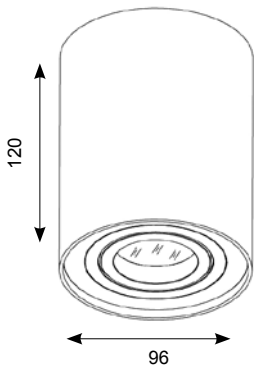


# Novara Surface GU10

Supplied Less Lamp



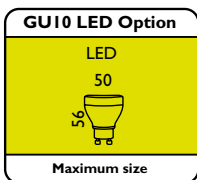
- Surface mounted GU10 downlight with tilt adjustment
- Suitable for GU10 LED, GU10 halogen and GU10 CFL lamps
- Aluminium construction
- 36° tilt angle and 355° rotation



ANSGU10/SC



ANSGU10/W



Code	Lamp	Description
<b>ANSGU10/W</b>	GU10	50W - White
<b>ANSGU10/SC</b>	GU10	50W - Satin Chrome



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

Patented intumescent disc

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

Sleeved AND double insulated high temperature cable

Supplied c/w GU10 Lampholder

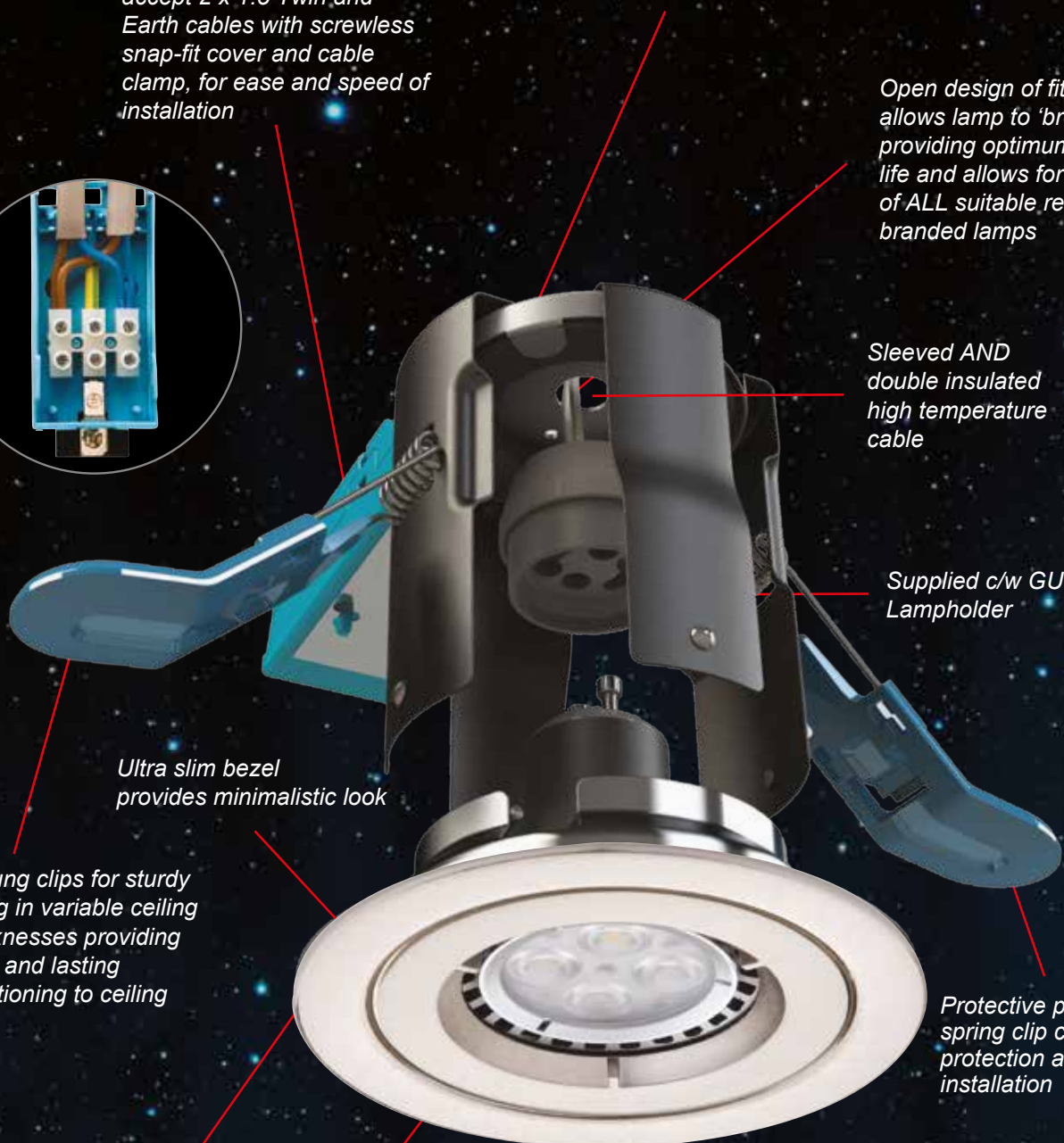
Ultra slim bezel provides minimalistic look

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

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

Moisture seal

Twistlock operation for easy lamp installation and replacement





# INNOVATIVE INTUMESCENT ACTION

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

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

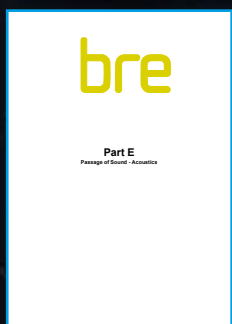
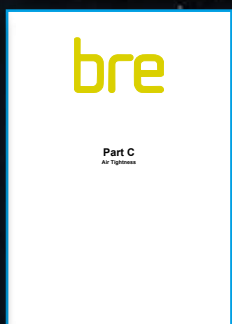
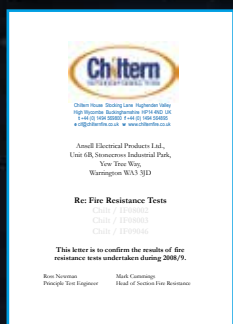
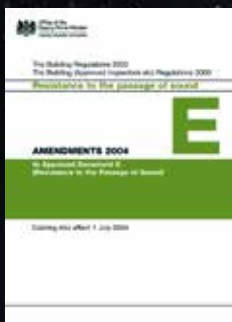
*iCage Mini offers the installer and specifier comprehensive lamp options, including Part L Compliant LED as well as traditional halogen.*



Normal Operation



Activated Intumescent



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

**Part C**  
 Test Nos.  
 P100567

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

## BEZEL OPTIONS

Fully tested in 30, 60 and 90 minute ceilings



White



Matt White



Brass



Chrome



Satin Chrome



Antique Brass



Black Chrome

# iCage Mini 50W GU10 Die-Cast Downlight

Supplied Less Lamp



AMICD/W



AMICD/MW



AMICD/BR



AMICD/CH



AMICD/SC



AMICD/AB



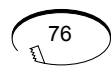
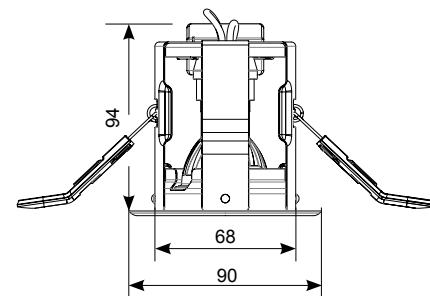
AMICD/BLC

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

Accessory AIBOX iBox Loft Protector H: 220 W: 196 L: 400-600



- 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







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

# iCage Mini 50W GU10 Die-Cast Gimbal

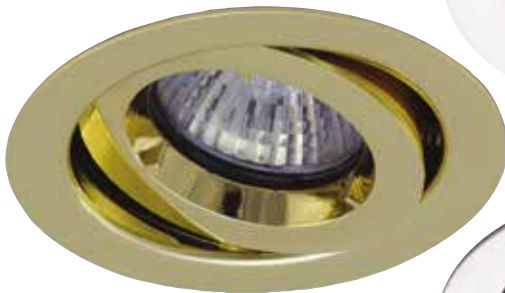
Supplied Less Lamp



AMICG/W



AMICG/MW



AMICG/BR



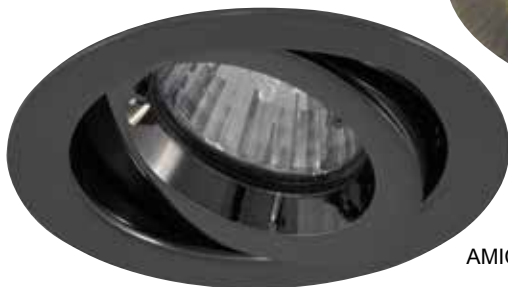
AMICG/CH



AMICG/SC



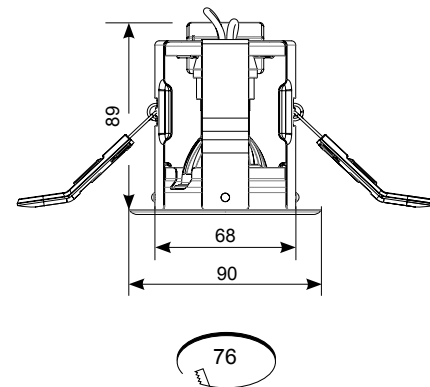
AMICG/AB



AMICG/BLC



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



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

**AIBOX** iBox Loft Protector H: 220 W: 196 L: 400-600

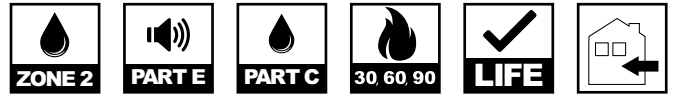


# iCage Mini IP65 50W GU10 Die-Cast Downlight

Supplied Less Lamp



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



AMICD/IP65/W



AMICD/IP65/MW



AMICD/IP65/BR



AMICD/IP65/CH



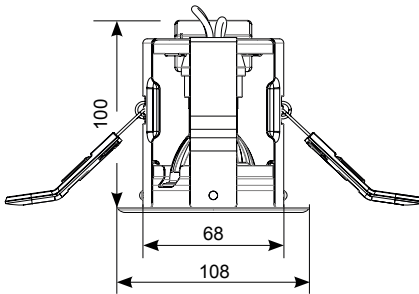
AMICD/IP65/SC



AMICD/IP65/AB



AMICD/IP65/BLC



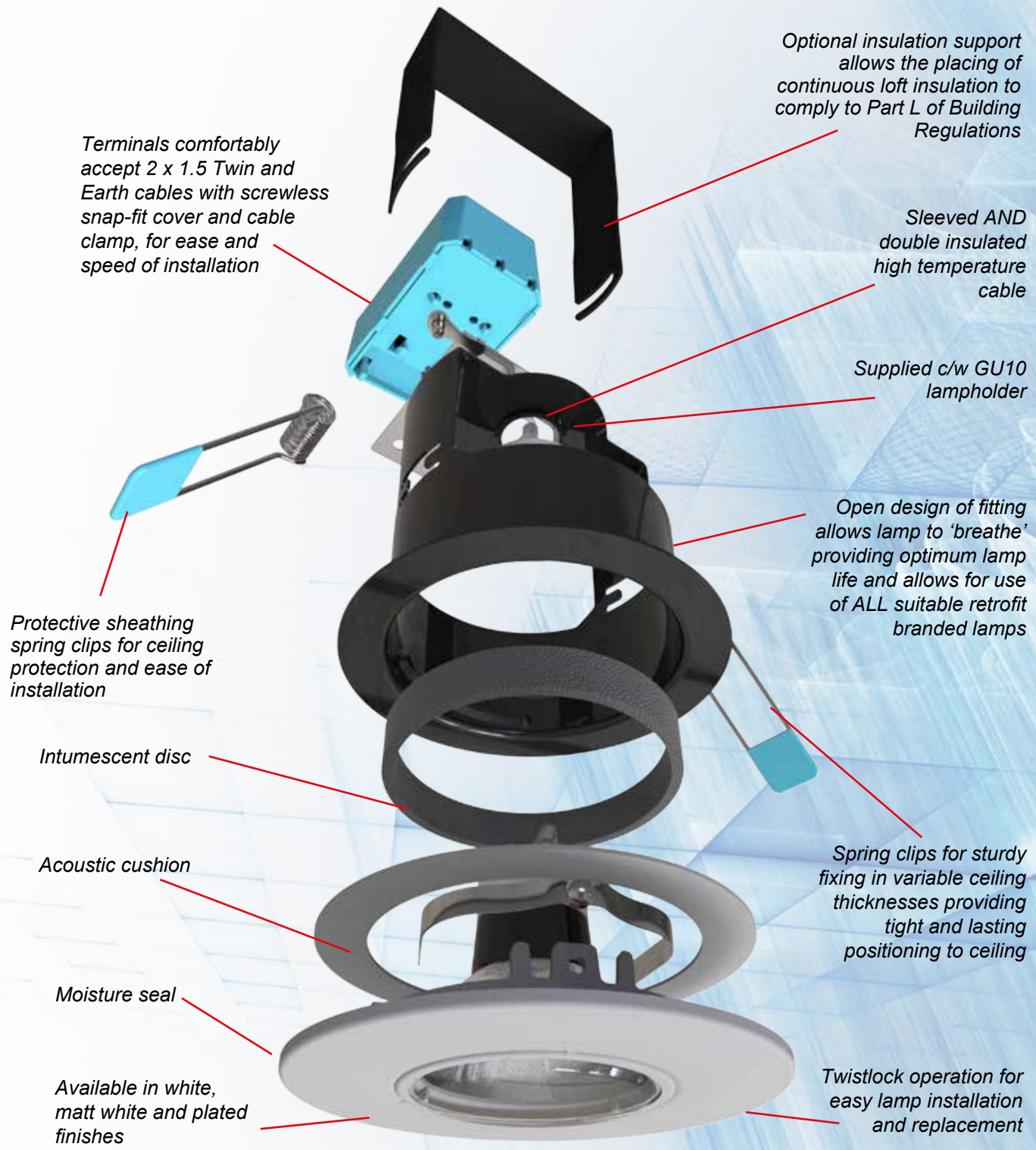
85

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



**Accessory** AIBOX iBox Loft Protector H: 220 W: 196 L: 400-600





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

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

Sleeved AND double insulated high temperature cable

Supplied c/w GU10 lampholder

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

Protective sheathing spring clips for ceiling protection and ease of installation

Intumescent disc

Acoustic cushion

Moisture seal

Available in white, matt white and plated finishes

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

Twistlock operation for easy lamp installation and replacement

### Product Certification



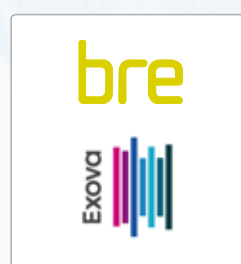
**Part B**  
Test Nos.  
30 Minutes - Exova WF383637  
60 Minutes - Exova WF383638  
90 Minutes - Exova WF383639



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

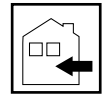


**Part E**  
Test No.  
BRE P107853-1000



# Edge GU10 Fire Rated Downlight

Supplied Less Lamp



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



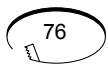
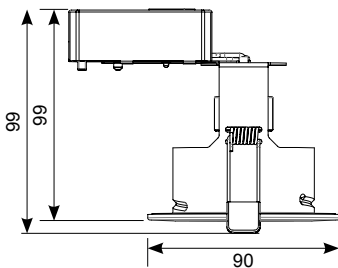
AEFRD/MW



AEFRD/CH



AEFRD/SC



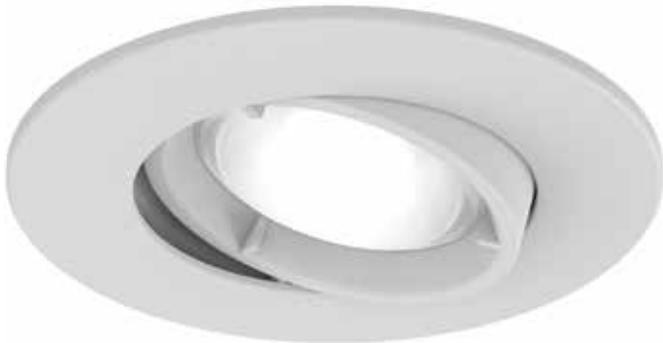
Code	Lamp	Description
<b>AEFRD/MW</b>	GU10	50W - Matt White
<b>AEFRD/CH</b>	GU10	50W - Chrome
<b>AEFRD/SC</b>	GU10	50W - Satin Chrome

**Accessories AEFRISD** Downlight Insulation Support



# Edge GU10 Fire Rated Gimbal

Supplied Less Lamp



AEFRG/MW



AEFRG/CH



AEFRG/SC

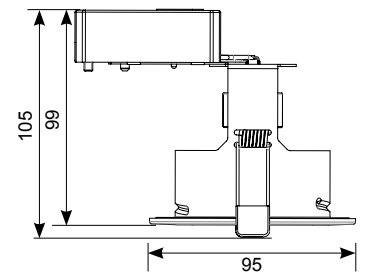
- Compact Fire Rated gimbal for shallow ceiling voids
- Suitable for standard GU10 halogen or LED lamps
- Protective sheathing spring clips for ceiling protection and ease of installation
- Push fit terminals for fast loop-in, loop-out wiring
- Twistlock lamp retaining ring for ease of lamp replacement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

## Lamp Options



GU10 LED

GU10 Halogen



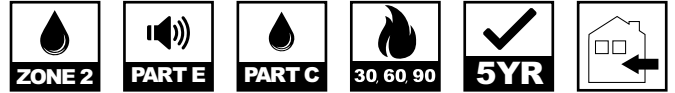
Code	Lamp	Description
AEFRG/MW	GU10	50W - Matt White
AEFRG/CH	GU10	50W - Chrome
AEFRG/SC	GU10	50W - Satin Chrome

Accessories AEFRISG Gimbal Insulation Support

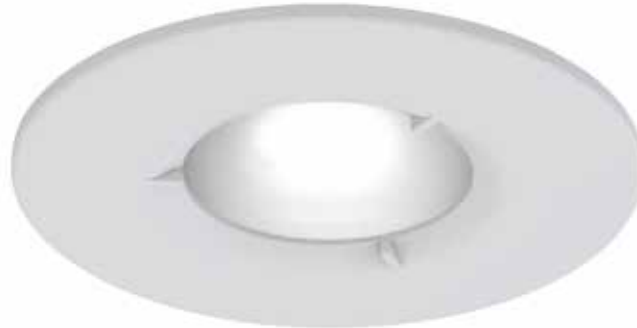


# Edge GU10 IP65 Fire Rated Downlight

Supplied Less Lamp



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



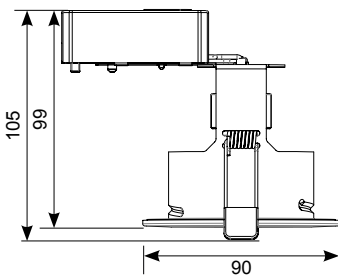
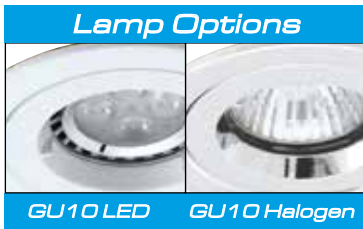
AEFRD/IP65/MW



AEFRD/IP65/CH



AEFRD/IP65/SC



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

**Accessories AEFRISD** Downlight Insulation Support



# Lyric GU10

Supplied Less Lamp



ALGU10/1



ALGU10/1/MW



ALGU10/2/MW



ALGU10/2

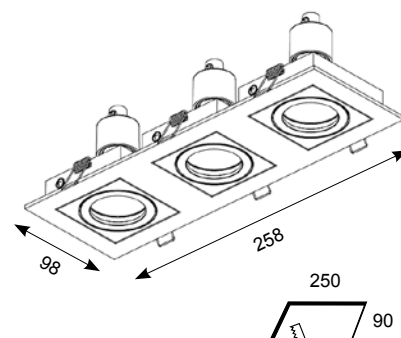
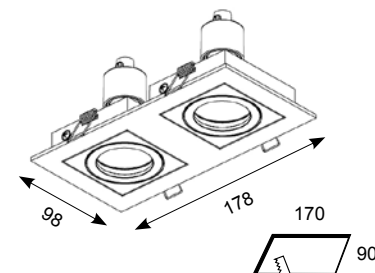
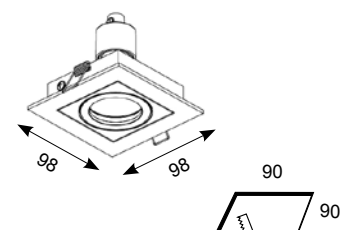


ALGU10/3

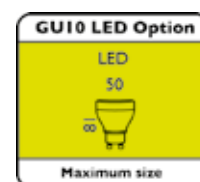


ALGU10/3/MW

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



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



Code	Lamp	Description
<b>ALGU10/1</b>	GU10	1 x 50W - Brushed Satin
<b>ALGU10/2</b>	GU10	2 x 50W - Brushed Satin
<b>ALGU10/3</b>	GU10	3 x 50W - Brushed Satin
<b>ALGU10/1/MW</b>	GU10	1 x 50W - Matt White
<b>ALGU10/2/MW</b>	GU10	2 x 50W - Matt White
<b>ALGU10/3/MW</b>	GU10	3 x 50W - Matt White



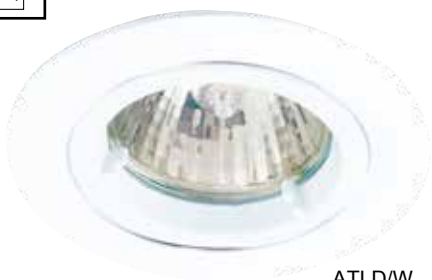




**Project - Harveys Restaurant**  
Rhuddlan, UK

# Twistlock GU10 50W Die-Cast Downlight

Supplied Less Lamp



ATLD/W



ATLD/MW



ATLD/BR



ATLD/CH



ATLD/SC



ATLD/AB



ATLD/BB



ATLD/BLC

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

<b>Accessories ATL/DG1</b>	Drop Glass Attachment - Frosted Centre
<b>ATL/DG2</b>	Drop Glass Attachment - Frosted Halo
<b>ATL/BA</b>	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



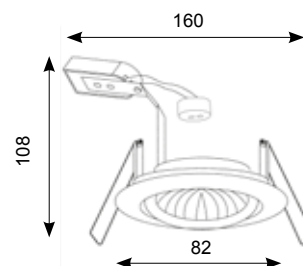
ATL/DG1 fitted into Twistlock



ATL/DG2



ATL/BA fitted into Twistlock



# 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



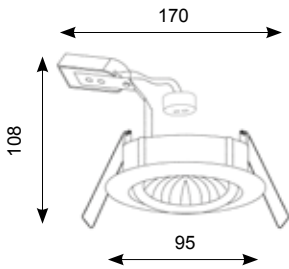
ATL/DG1 fitted into Twistlock



ATL/DG2



ATL/BA fitted into Twistlock



ATLG/W



ATLG/MW



ATLG/BR



ATLG/CH



ATLG/SC



ATLG/AB



ATLG/BB



ATLG/BLC

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

<b>Accessories ATL/DG1</b>	Drop Glass Attachment - Frosted Centre
<b>ATL/DG2</b>	Drop Glass Attachment - Frosted Halo
<b>ATL/BA</b>	Low Glare Baffle Adaptor



# Twistlock GU10 50W Die-Cast Square Gimbal

Supplied Less Lamp



ATLSQG/W

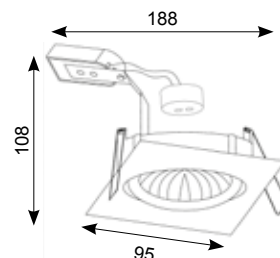


ATLSQG/CH



ATLSQG/SC

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



ATL/DG1 fitted into Twistlock



ATL/DG2



ATL/BA fitted into Twistlock



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

Accessories	Code	Description
ATL/DG1	ATL/DG1	Drop Glass Attachment - Frosted Centre
ATL/DG2	ATL/DG2	Drop Glass Attachment - Frosted Halo
ATL/BA	ATL/BA	Low Glare Baffle Adaptor

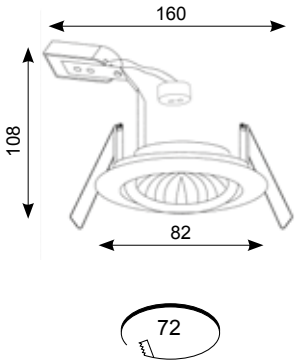


# Twistlock GU10 35W IP44 Die-Cast Downlight

Supplied Less Lamp



- IP44 downlight suitable for bathrooms



ATLVD/IP44/W



ATLVD/IP44/CH



ATLVD/IP44/SC



ATL/BA fitted into Twistlock



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

<b>Accessory</b>	<b>ATL/BA</b>	Low Glare Baffle Adaptor
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# Twistlock GU10 IP65 Downlight

Supplied Less Lamp



**IP65** ATLD/IP65/W



**IP65** ATLD/IP65/MW



**IP65** ATLD/IP65/CH

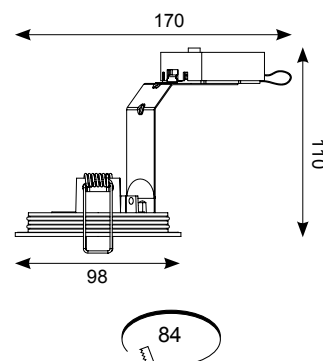


**IP65** ATLD/IP65/SC

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



ATL/BA fitted into Twistlock



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
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# IP65 GU10/MR16 Die-Cast Bathroom Downlight

Supplied Less Lamp



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



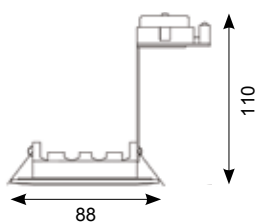
ABD/W



ABD/CH



ABD/SC



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



MR16 GU10







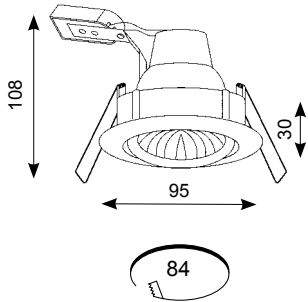
# Twistlock GU10 / 35W IP44 Outdoor Die-Cast Gimbal

Supplied Less Lamp



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

Suitable for GU10 LED only



ATLVOG/IP44/W



ATLVOG/IP44/SG

Suitable for external  
soffit applications



ATLVOG/IP44/B



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

\*GU10 LED Only

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



# Converter Kit Low Voltage and GU10

Supplied Less Lamp



ACP/W



ACP/CH



ACP/BR



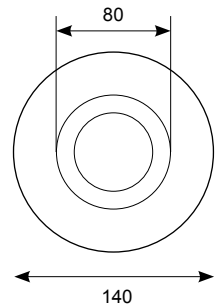
ACP/SC

Code	Lamp	Description
<b>ACP/W</b>	MR16 or GU10	50W - White
<b>ACP/BR</b>	MR16 or GU10	50W - Brass
<b>ACP/CH</b>	MR16 or GU10	50W - Chrome
<b>ACP/SC</b>	MR16 or GU10	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



Variable 70-98mm



- 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

## Fire Hoods and Tents



Fire Hood



Fire Tent

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

	Code	Cover Size (mm)		
<b>Hoods</b>	<b>Standard Cover</b>	<b>Dia.</b>	<b>Height</b>	
	ADLC/0	150 x 120		
	ADLC/1	130 x 70		
	ADLC/2	130 x 100		
	ADLC/3	130 x 140		
	ADLC/4	180 x 130		
	ADLC/5	180 x 170		
	ADLC/6	260 x 120		
	ADLC/7	260 x 230		
	ADLC/8	300 x 170		
ADLC/9	350 x 230			
<b>Tent</b>	<b>Standard Cover</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>
	AFT/2	650 x 600	x 150mm	

## Spare Lampholders

- Replacement lampholders



ASGU10L



ASLVL

Code	Description
ASGU10L	GU10 Stirrup Lampholder with earth
ASLVL	Low Voltage double contact Lampholder c/w leads

# Single Circuit

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

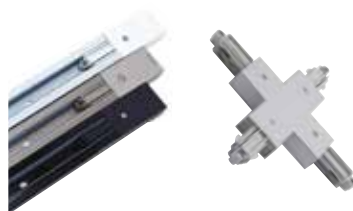
Unity LED and Primo  
GU10 Track Packs

99



Mains Track and  
Accessories

101



Unity 0 LED Mains

105



Unity 1 LED Mains

106



Unity 2 LED Mains

107



Unity 3 LED Mains

109



Unity 4 LED Mains

110



Unity Wallwash LED  
Mains

112



Como 50W GU10 Mains

114



Dara 50W GU10 Mains

115



Zita 50W GU10 Mains

116



Lanzia 50W GU10 Mains

117



# Single Circuit Unity 0 LED Mains Track Pack

Supplied c/w Integral Driver



- 1 Metre track c/w 3 x 7.5W LED trackspots 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



AULEDTP/CW/W



AULEDTP/CW/SS

## LED Information

Total (Watts)	3 x 10W
Lumens Delivered	
Cool White	3 x 691lm
Warm White	3 x 629lm
Lm/W Cool White	69lm
Lm/W Warm White	63lm
Beam Angle	50°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
<b>AULEDTP/CW/W</b>	LED	3 x 10W - Cool White - White
<b>AULEDTP/CW/SS</b>	LED	3 x 10W - Cool White - Satin Silver
<b>AULEDTP/WW/W</b>	LED	3 x 10W - Warm White - White
<b>AULEDTP/WW/SS</b>	LED	3 x 10W - Warm White - Satin Silver



# Single Circuit GU10 Mains Voltage Track Pack

Supplied c/w Lamp

100



AMTP1/W



AMTP1/SS  
Fitted Trim Ring



- 1 Metre track c/w 3 x 50W GU10 Spots and Osram Lamp
- 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



# Mains Voltage 16A Single Circuit Track

Supplied c/w Live and Dead End

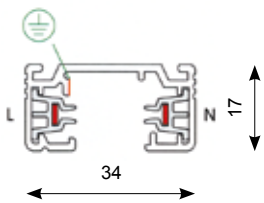


101

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



Generous Terminal Capacity



Track Cross Section



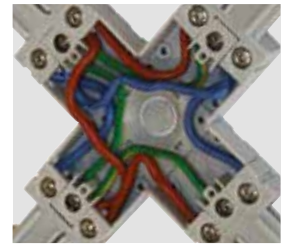
	Code	Description
<b>1 Metre</b>	<b>AMT1/W</b>	1 Metre - White
	<b>AMT1/B</b>	1 Metre - Black
	<b>AMT1/SS</b>	1 Metre - Satin Silver
<b>2 Metre</b>	<b>AMT2/W</b>	2 Metre - White
	<b>AMT2/B</b>	2 Metre - Black
	<b>AMT2/SS</b>	2 Metre - Satin Silver









# Mains Voltage 16A Single Circuit Track Accessories



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



Flexible incoming wiring access

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

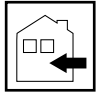










# Mains Voltage 16A Single Circuit Track Accessories



Surface Monopoint with Unity 2 LED Mains fitting

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



	Code	Description
	AMTLC/PI/W	White
	AMTLC/PI/B	Black
	AMTLC/PI/SS	Satin Silver
	AMTLC/PO/W	White
	AMTLC/PO/B	Black
	AMTLC/PO/SS	Satin Silver
	AMTTC/PI/W	White
	AMTTC/PI/B	Black
	AMTTC/PI/SS	Satin Silver
	AMTTC/PO/W	White
	AMTTC/PO/B	Black
	AMTTC/PO/SS	Satin Silver
	AMTA/W	White
	AMTA/B	Black
	AMTA/SS	Satin Silver
	AMTFC/W	White
	AMTFC/B	Black
	AMTFC/SS	Satin Silver
	AMTSK	c/w 3metre Steel Chord
	AMON/GU10/W	White
	AMON/GU10/B	Black
	AMON/GU10/SS	Satin Silver
	(Diameter 120mm x Depth 25mm)	

# Single Circuit Track Planning System

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



Live End Earth Left



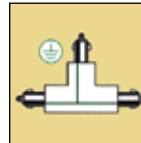
Live End Earth Right



L Connector Earth Outside



L Connector Earth Inside

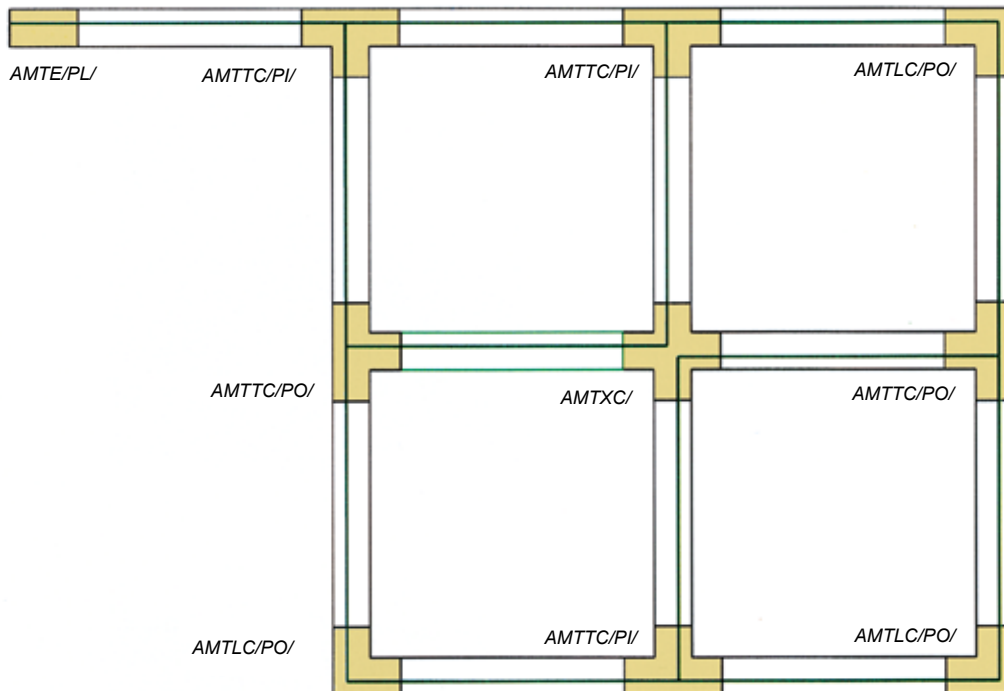


T Connector Earth Left



T Connector Earth Right

## Example of correct accessory selection

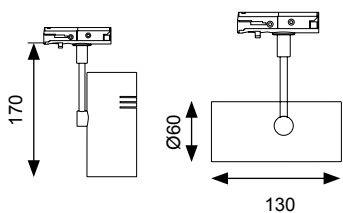


# Single Circuit Unity 0 LED Mains

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



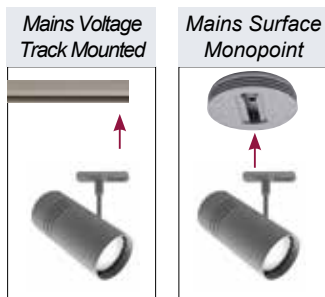
AULEDS0/CW/W



AULEDS0/CW/B



AULEDS0/CW/SS



## LED Information

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

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

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AULEDS1/W



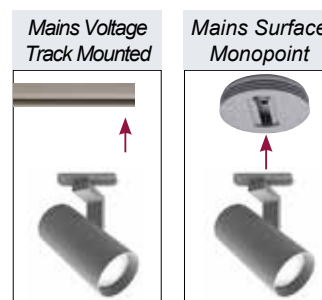
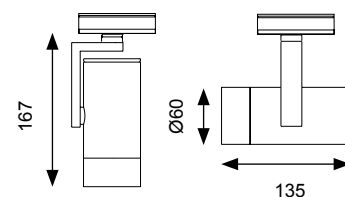
AULEDS1/B



AULEDS1/SS



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



Code	Lamp	Description
AULEDS1/W	LED	15W - Cool White - White
AULEDS1/B	LED	15W - Cool White - Black
AULEDS1/SS	LED	15W - Cool White - Satin Silver
AULEDS1/WW/W	LED	15W - Warm White - White
AULEDS1/WW/B	LED	15W - Warm White - Black
AULEDS1/WW/SS	LED	15W - Warm White - Satin Silver
<b>Accessories</b>		
AMON/GU10/W		Surface Monopoint - White
AMON/GU10/B		Surface Monopoint - Black
AMON/GU10/SS		Surface Monopoint - Satin Silver

## LED Information

Total (Watts)	15W
<b>Lumens Delivered</b>	
Cool White	946lm
Warm White	938lm
Lm/W Cool White	63lm
Lm/W Warm White	63lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K 3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



# Single Circuit Unity 2 LED Mains

Supplied c/w Integral Driver

- 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 L80 50,000 hours
- Non-dimmable



AULEDS2/W

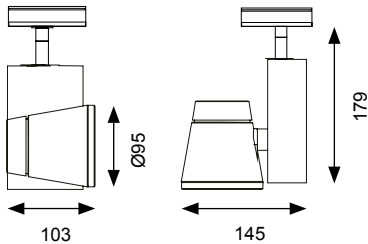


AULEDS2/B

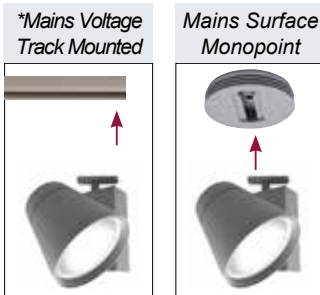


AULEDS2/SS

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\*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 50°C

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





**Project - Simply Gym**  
Cwmbran, UK

# Single Circuit Unity 3 LED Mains

Supplied c/w Integral Driver

- LED trackspot with integral driver
- Comparable performance to 100W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L80 50,000 hours
- Non-dimmable



AULEDS3/W

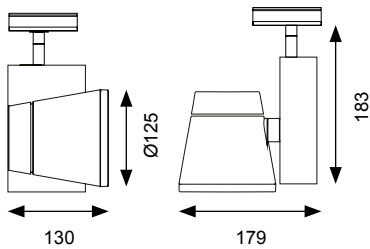


AULEDS3/B

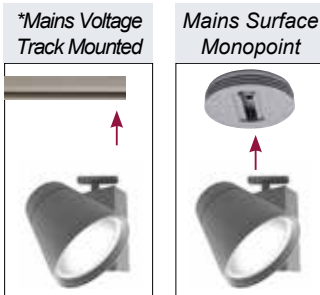


AULEDS3/SS

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enlightening your ideas



\*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 50°C

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



# Single Circuit Unity 4 LED Mains

Supplied c/w Integral Driver

110



AULEDS4/W

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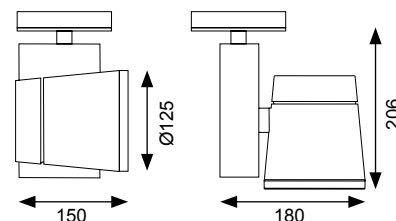


AULEDS4/B

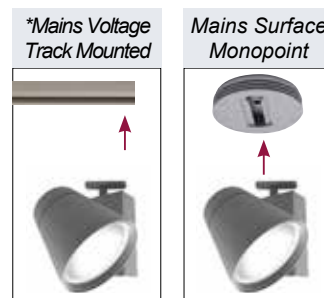


AULEDS4/SS

- 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 L80 50,000 hours
- Non-dimmable



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



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

## LED Information

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







**Project - The Fashion Parade**  
Uttoxeter, UK

# Single Circuit Unity Wallwash LED Mains

Supplied c/w Integral Driver

112



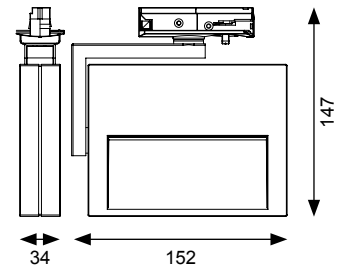
AULEDSW/CW/W

Powered by



AULEDSW/WW/B

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



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

## LED Information

Total (Watts)	17W
Lumens Delivered	
Cool White	529lm
Warm White	487lm
Lm/W Cool White	31lm
Lm/W Warm White	28lm
Beam Angle	100°
CRI	Ra 90
CCT Cool White	4000K
CCT Warm White	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C





# Single Circuit Como 50W GU10 Mains

Supplied Less Lamp

114



ACOGU10S/SS

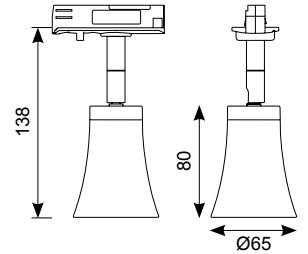


ACOGU10S/W



ACOGU10S/B

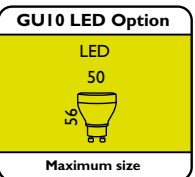
- Modern track spot
- Design of housing accommodates varied lamp lengths up to 56mm
- 355° rotation, spot head tilt angle to 90°



Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



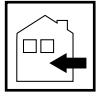
Code	Lamp	Description
<b>ACOGU10S/W</b>	GU10	50W - White
<b>ACOGU10S/B</b>	GU10	50W - Black
<b>ACOGU10S/SS</b>	GU10	50W - Satin Silver

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



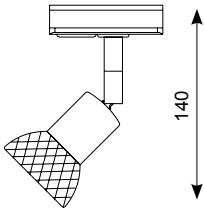
# Single Circuit Dara 50W GU10 Mains

Supplied Less Lamp



115

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



ADGU10S/SS

Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



ADGU10S/W



ADGU10S/B



Code	Lamp	Description
<b>ADGU10S/W</b>	GU10	50W - White
<b>ADGU10S/B</b>	GU10	50W - Black
<b>ADGU10S/SS</b>	GU10	50W - Satin Silver

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



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Belfast: +44 (0) 2890 773750



# Single Circuit Zita 50W GU10 Mains

Supplied Less Lamp

116

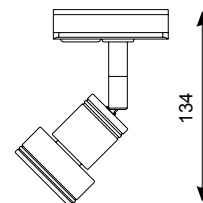


AZGU10S/W



AZGU10S/SS  
Fitted Trim Ring

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



Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



Code	Lamp	Description
AZGU10S/W	GU10	50W - White
AZGU10S/SS	GU10	50W - Satin Silver

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

AZTR/W	Trim Ring - White
AZTR/SS	Trim Ring - Satin Silver



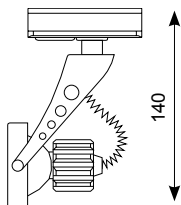
# Single Circuit Lanzia 50W GU10 Mains

Supplied Less Lamp



117

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



Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



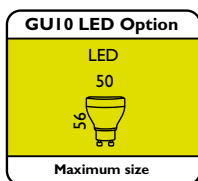
ALGU10S/B



ALGU10S/SS



ALGU10S/W



Code	Lamp	Description
ALGU10S/W	GU10	50W - White
ALGU10S/B	GU10	50W - Black
ALGU10S/SS	GU10	50W - Satin Silver

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



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# Three Circuit

118

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

Mains Track and Accessories



119

Unity 0 LED Mains



123

Unity 1 LED Mains



124

Unity 2 LED Mains



125

Unity 3 LED Mains



126

Unity 4 LED Mains



127



# Mains Voltage 16A Three Circuit Track

Supplied c/w Live and Dead End

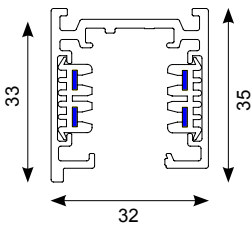


119

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



Generous Terminal Capacity



Track Cross Section



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









# Mains Voltage 16A Three Circuit Track Accessories



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

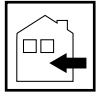










Flexible incoming wiring access

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

# Mains Voltage 16A Three Circuit Track Accessories

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



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

# Three Circuit Track Planning System

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



Live End Earth Left



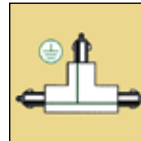
Live End Earth Right



L Connector Earth Outside



L Connector Earth Inside

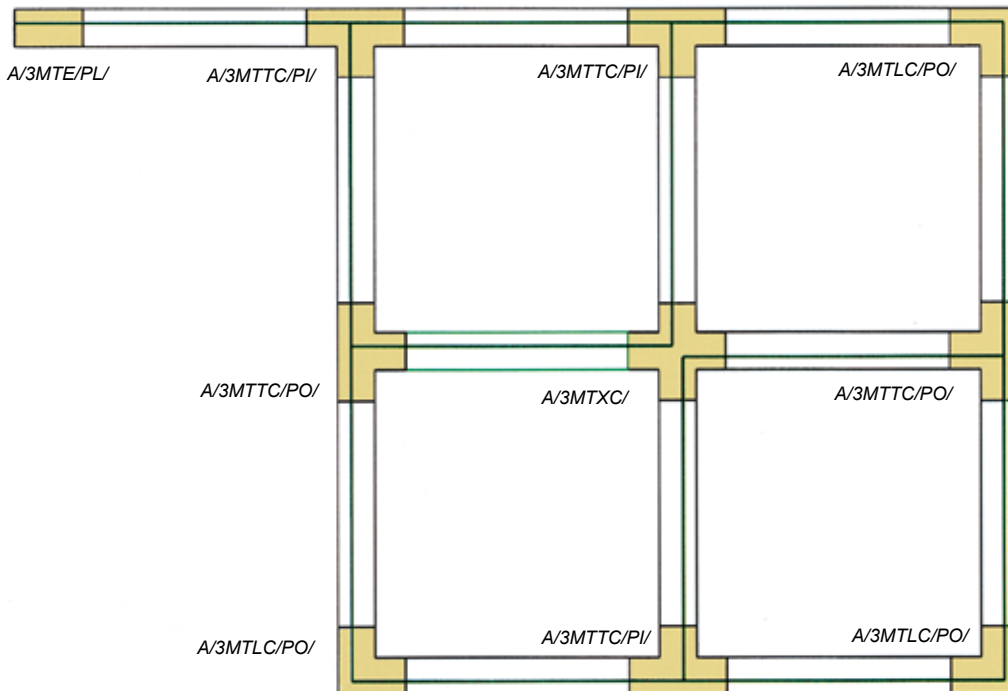


T Connector Earth Left



T Connector Earth Right

## Example of correct accessory selection

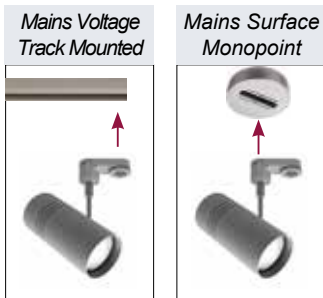
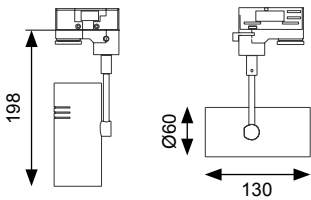


# Three Circuit Unity 0 LED Mains

Supplied c/w Integral Driver



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



A/3ULEDS0/CW/W



A/3ULEDS0/CW/B



A/3ULEDS0/CW/SS

## LED Information

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

Code	Lamp	Description
A/3ULEDS0/CW/W	LED	10W - Cool White - White
A/3ULEDS0/CW/B	LED	10W - Cool White - Black
A/3ULEDS0/CW/SS	LED	10W - Cool White - Satin Silver
A/3ULEDS0/WW/W	LED	10W - Warm White - White
A/3ULEDS0/WW/B	LED	10W - Warm White - Black
A/3ULEDS0/WW/SS	LED	10W - Warm White - Satin Silver
A/3MON/GU10/W		Surface Monopoint - White
A/3MON/GU10/B		Surface Monopoint - Black
A/3MON/GU10/SS		Surface Monopoint - Satin Silver



# Three Circuit Unity 1 LED Mains

Supplied c/w Integral Driver



A/3ULEDS1/W

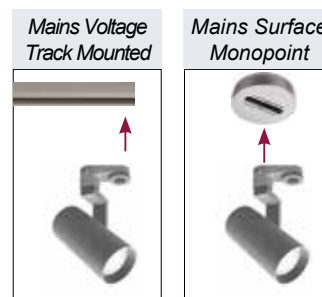
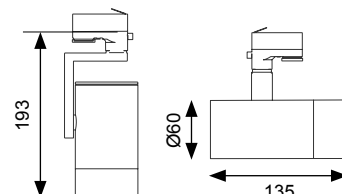


A/3ULEDS1/B



A/3ULEDS1/SS

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



Code	Lamp	Description
A/3ULEDS1/W	LED	15W - Cool White - White
A/3ULEDS1/B	LED	15W - Cool White - Black
A/3ULEDS1/SS	LED	15W - Cool White - Satin Silver
A/3ULEDS1/WW/W	LED	15W - Warm White - White
A/3ULEDS1/WW/B	LED	15W - Warm White - Black
A/3ULEDS1/WW/SS	LED	15W - Warm White - Satin Silver
<b>Accessories</b>	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	AMON/GU10/SS	Surface Monopoint - Satin Silver

### LED Information

Total (Watts)	15W
<b>Lumens Delivered</b>	
Cool White	946lm
Warm White	938lm
Lm/W Cool White	63lm
Lm/W Warm White	63lm
Beam Angle	40°
CRI	Ra 90
CCT	4000K
	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°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 L80 50,000 hours
- Non-dimmable



A/3ULEDS2/W

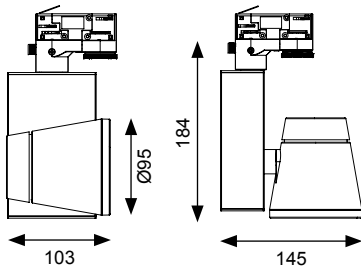


A/3ULEDS2/B

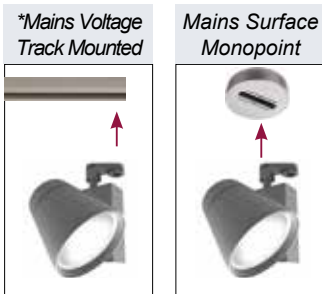


A/3ULEDS2/SS

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\*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 50°C

Code	Lamp	Description
A/3ULEDS2/W	LED	29W - Cool White - White
A/3ULEDS2/B	LED	29W - Cool White - Black
A/3ULEDS2/SS	LED	29W - Cool White - Satin Silver
A/3ULEDS2/WW/W	LED	29W - Warm White - White
A/3ULEDS2/WW/B	LED	29W - Warm White - Black
A/3ULEDS2/WW/SS	LED	29W - Warm White - Satin Silver
<b>Accessories</b>	<b>A/3MON/GU10/W</b>	Surface Monopoint - White
	<b>A/3MON/GU10/B</b>	Surface Monopoint - Black
	<b>A/3MON/GU10/SS</b>	Surface Monopoint - Satin Silver



# Three Circuit Unity 3 LED Mains

Supplied c/w Integral Driver

126



A/3ULEDS3/W

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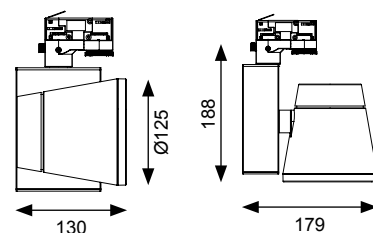


A/3ULEDS3/B

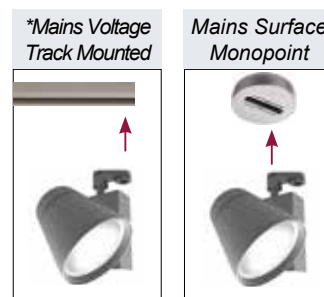


A/3ULEDS3/SS

- LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- Comparable performance to 100W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L80 50,000 hours
- Non-dimmable



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



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

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

### 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 50°C





# Three Circuit Unity 4 LED Mains

Supplied c/w Integral Driver

- LED trackspot with integral driver
- Three circuit functionality allows for installations with multi-circuit requirement
- Comparable performance to 150W HQI
- 355° rotation with 0-180° tilt on the bracket
- Mirror finish anodized reflector
- Anti-glare design to create visual comfort
- LED lifespan L80 50,000 hours
- Non-dimmable



A/3ULEDS4/W

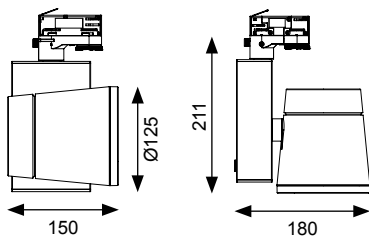


A/3ULEDS4/B



A/3ULEDS4/SS

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

\*Mains Voltage  
Track Mounted



Mains Surface  
Monopoint



### LED Information

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

Code	Lamp	Description
A/3ULEDS4/W	LED	42W - Cool White - White
A/3ULEDS4/B	LED	42W - Cool White - Black
A/3ULEDS4/SS	LED	42W - Cool White - Satin Silver
A/3ULEDS4/WWW	LED	42W - Warm White - White
A/3ULEDS4/WW/B	LED	42W - Warm White - Black
A/3ULEDS4/WW/SS	LED	42W - Warm White - Satin Silver
<b>Accessories</b>	A/3MON/GU10/W	Surface Monopoint - White
	A/3MON/GU10/B	Surface Monopoint - Black
	A/3MON/GU10/SS	Surface Monopoint - Satin Silver



# Unity 0 Surface LED Mains

Supplied c/w Integral Driver

128



ASSULED0/CW/W

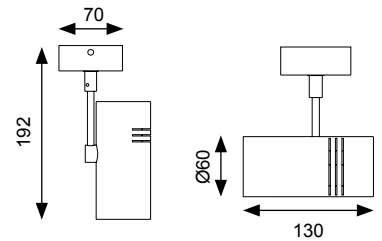


ASSULED0/CW/B



ASSULED0/CW/SS

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



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

### LED Information

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

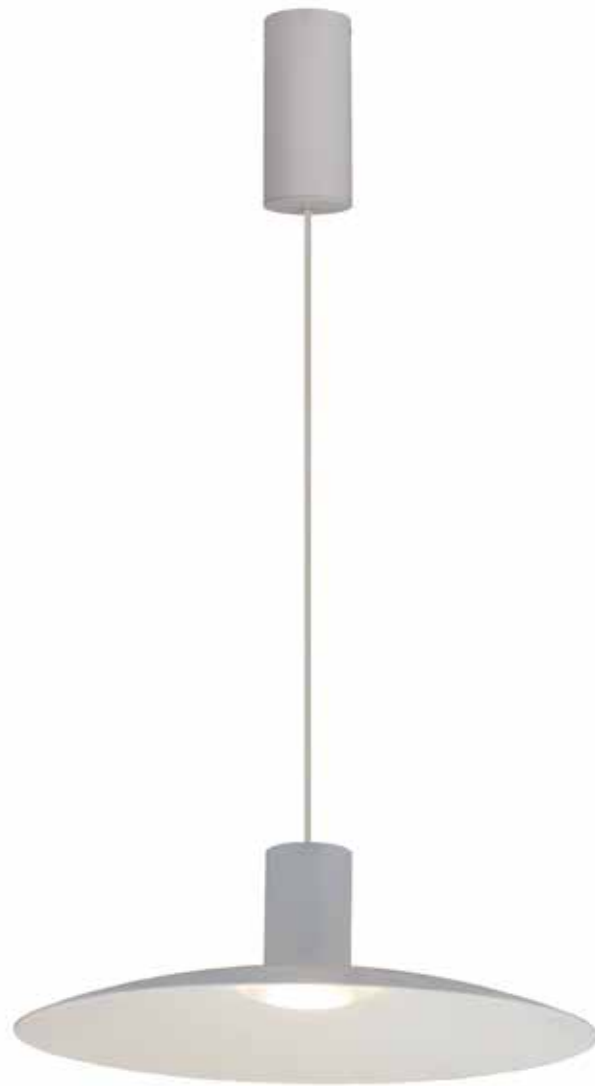
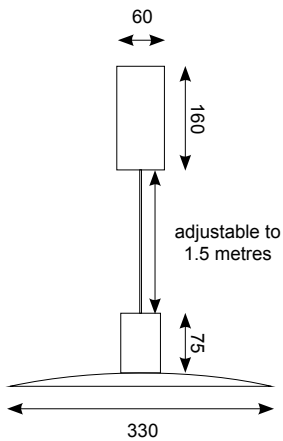


# Druzy LED

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
- Comparable performance to 75W halogen
- LED lifespan L70 50,000 hours
- Triac dimmable as standard



ADRLEDP/WWW



ADRLEDP/WW/B

### LED Information

Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 93
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
<b>ADRLEDP/WWW</b>	LED	9W - Warm White - White
<b>ADRLEDP/WW/B</b>	LED	9W - Warm White - Black



# Amber LED

Supplied c/w Integral Driver

130

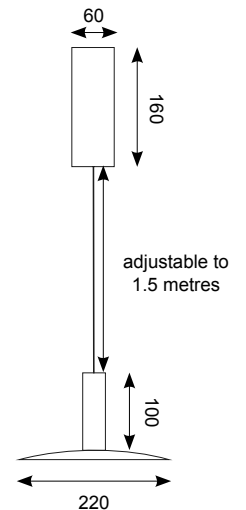


AAMLEDP/WW/W



AAMLEDP/WW/B

- 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 50,000 hours
- Triac dimmable as standard



## LED Information

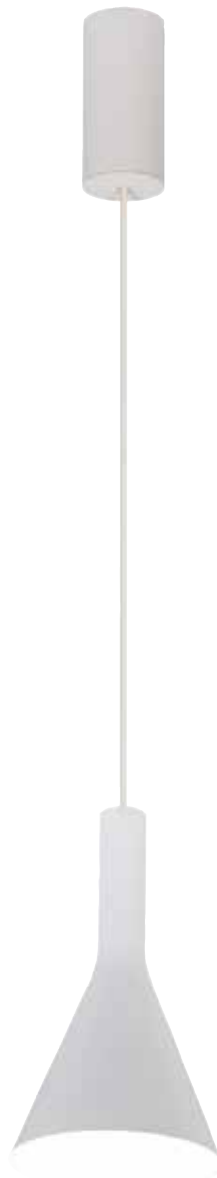
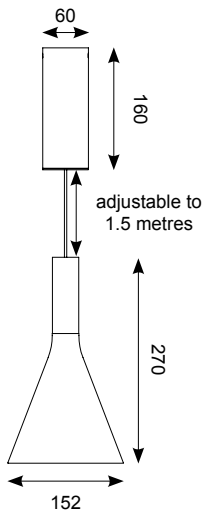
Total (Watts)	7.5W
Lumens Delivered	400lm
Lm/W	53lm
CRI	Ra 93
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
AAMLEDP/WW/W	LED	7.5W - Warm White - White
AAMLEDP/WW/B	LED	7.5W - Warm White - Black

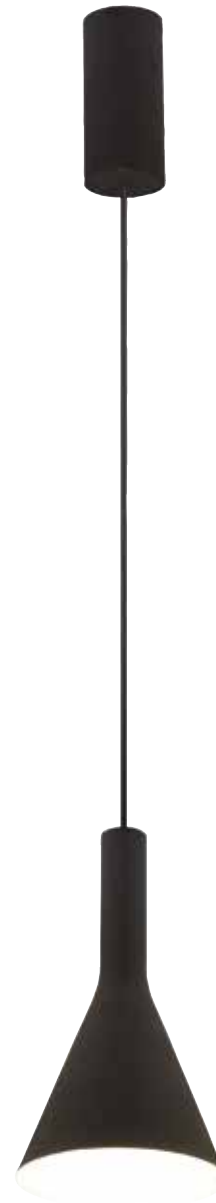




- Decorative pendant with die-cast housing
- White and black paint finish options with white inner shade
- Suitable for hotel, restaurant and commercial applications
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



AJSLEDP/WW/W



AJSLEDP/WW/B

**LED Information**

Total (Watts)	7.5W
Lumens Delivered	400lm
Lm/W	53lm
CRI	Ra 93
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
<b>AJSLEDP/WWW</b>	LED	7.5W - Warm White - White
<b>AJSLEDP/WWB</b>	LED	7.5W - Warm White - Black



# Jade LED

Supplied c/w Integral Driver

132



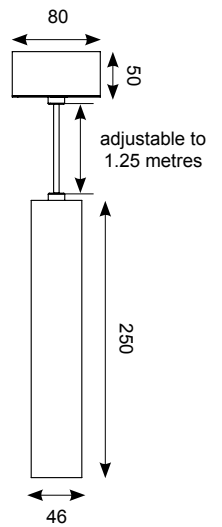
AJLEDP/WW/W

AJLEDP/WW/B

Powered by



- 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



### LED Information

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

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

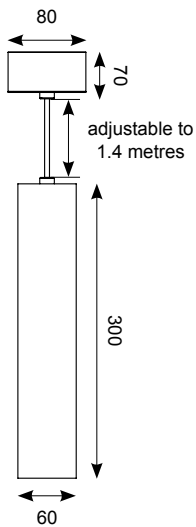


# Ruby LED

Supplied c/w Integral Driver



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



ARULEDP/WW/W



ARULEDP/WW/B

### LED Information

Total (Watts)	16W
Lumens Delivered	1029lm
Lm/W	64lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

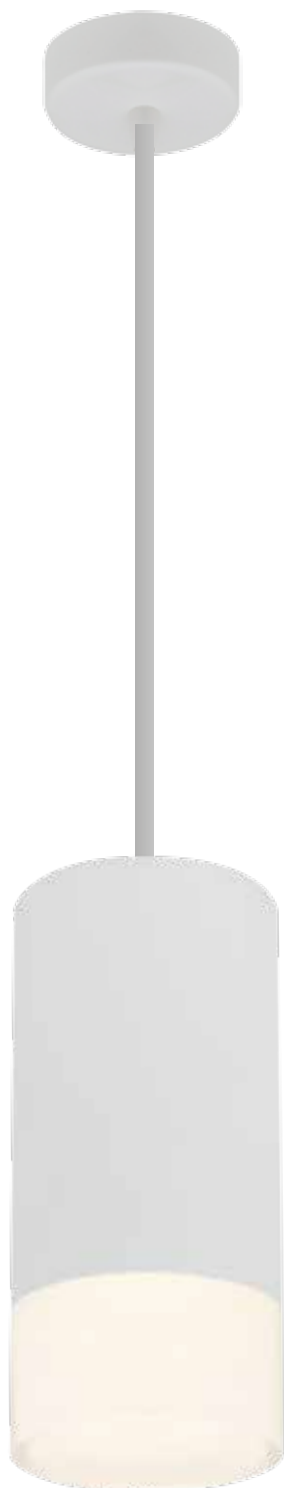
Code	Lamp	Description
ARULEDP/WW/W	LED	16W - Warm White - White
ARULEDP/WW/B	LED	16W - Warm White - Black



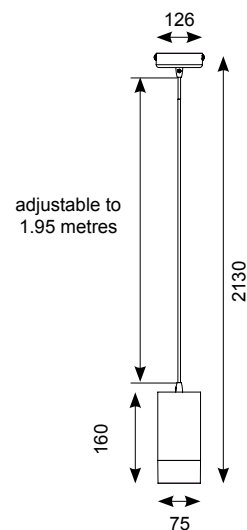
# Tuba LED

Supplied c/w Integral Driver

134



- Decorative pendant with die-cast housing
- Matt white paint finish with frosted glass bottom cover
- Suitable for hotel, restaurant and commercial applications
- Comparable performance to 75W halogen
- LED lifespan L70 30,000 hours
- Non-dimmable



## LED Information

Total (Watts)	11W
Lumens Delivered	619lm
Lm/W	57lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
ATUPLD	LED	11W - Warm White





# deli2go



Thank you  
and have a safe journey

LATEST NEWS

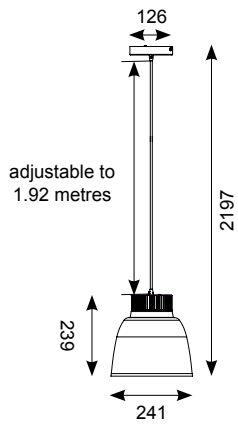
**Project - Shell**  
Corley, UK



**Project - Simply Gym**  
Cwmbran, UK



- 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
- 29W comparable performance to 35W HQI
- 50W comparable performance to 150W HQI
- LED lifespan L70 54,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	29W
	50W
Lumens Delivered	
22W	1740lm
50W	4244lm
Lm/W 22W	60lm
Lm/W 50W	85lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 35°C



Code	Lamp	Description
<b>ADEPLED</b>	LED	29W - Warm White
<b>ADEPLED/HP</b>	LED	50W - Warm White

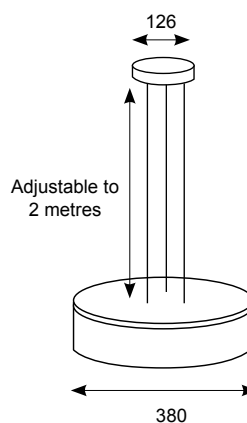


# Tamar LED

Supplied c/w Integral Driver



- Low glare LED pendant with adjustable 2 metre suspension wires and clutch for ease of installation
- Comparable performance to 42W PLC
- Brushed aluminium body with opaque polycarbonate diffuser
- LED lifespan L70 50,000 hours
- Non-dimmable



### LED Information

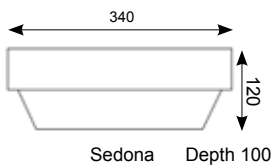
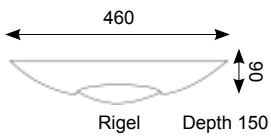
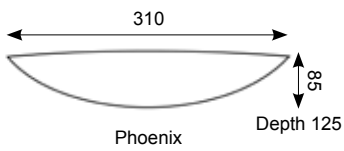
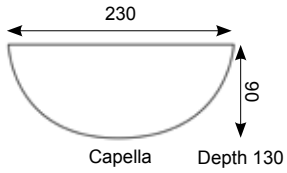
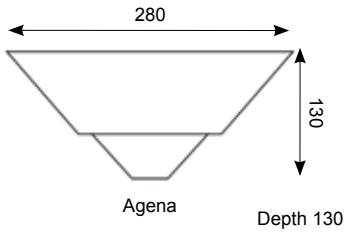
Total (Watts)	19W
Lumens Delivered	1066lm
Lm/W	56lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-30°C to 50°C

Code	Lamp	Description
ATAMLED	LED	19W - Cool White





- Wall mounted unglazed ceramic uplights suitable for painting if required



Agena



Capella



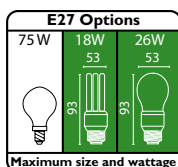
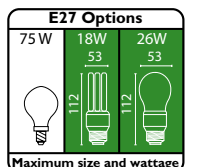
Phoenix



Rigel

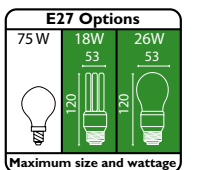


Sedona

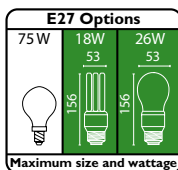


ACCUE27 / APCUE27

AACUE27



ASCUE27



ARCUE27

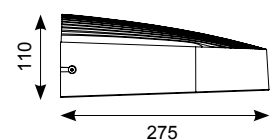
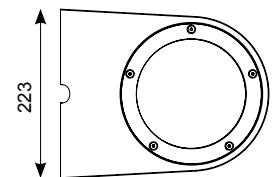
	Code	Lamp	Description
<b>Agena</b>	<b>AACU/E27</b>	E27	75W
<b>Capella</b>	<b>ACCU/E27</b>	E27	75W
<b>Phoenix</b>	<b>APCU/E27</b>	E27	75W
<b>Rigel</b>	<b>ARCU/E27</b>	E27	75W
<b>Sedona</b>	<b>ASCU/E27</b>	E27	75W



# Aero LED

Supplied c/w Integral Driver

140



- Dual purpose design allows installation in either an upright or downlight orientation
- Comparable performance to 20W HQI
- Housing is manufactured from high purity marine grade aluminium and treated with a six stage chrome plating treatment and dry polyester powder coating
- Screws manufactured from marine grade stainless steel
- Tempered glass cover
- LED lifespan L70 40,000 hours
- Non-dimmable

## LED Information

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

Code	Lamp	Description
AAROLED	LED	12W - Cool White





# Uni LED

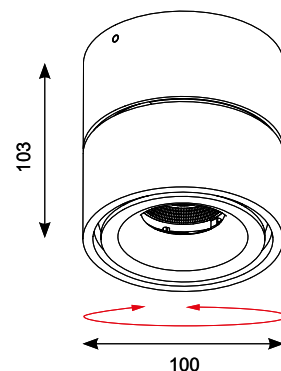
Supplied c/w Integral Driver

142



Fully adjustable to 90°

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



### LED Information

Total (Watts)	9W
Lumens Delivered	645lm
Lm/W	72lm
Beam Angle	45°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

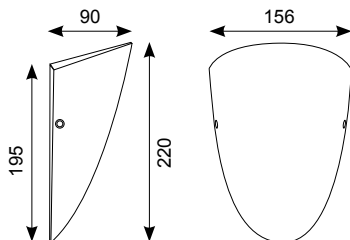
Code	Lamp	Description
AUNIVLED	LED	9W - Warm White







- Die-cast aluminium uplight with glass cover
- Comparable performance to 100W halogen and exceeds 1x26W PLC equivalent
- Black textured paint finish
- Suitable for internal and external use
- LED lifespan L70 57,000 hours
- Non-dimmable



### LED Information

Total (Watts)	14W
Lumens Delivered	824lm
Lm/W	59lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
ATULED	LED	14W - Cool White



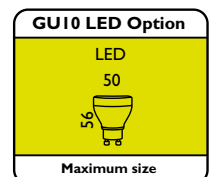
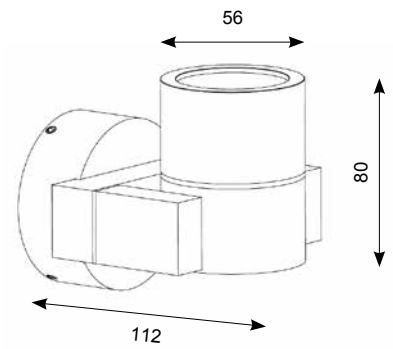
# Riola

Supplied Less Lamp

144



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

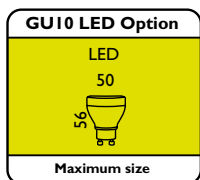
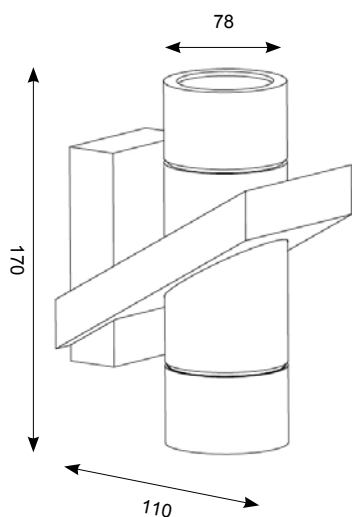


Code	Lamp	Description
ARGU10	GU10	35W





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



Code	Lamp	Description
ACO2X35	GU10	2x35W



# Mitre LED

Supplied c/w Integral Driver

146



White

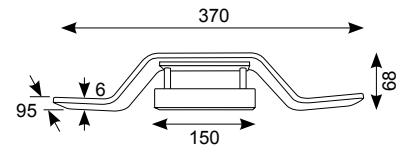


Oak



Walnut

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



### LED Information

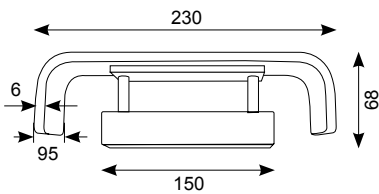
Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 93
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

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

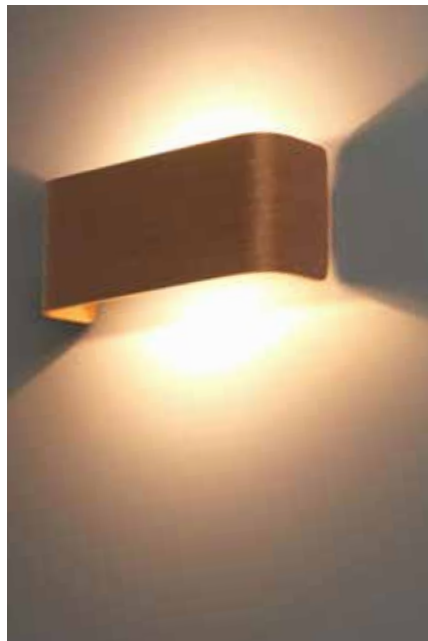




- Modern LED wall light with choice of 3 cover finishes
- Unique design creates even distribution of upward and downward light
- White, oak and walnut cover finishes available
- LED lifespan L70 30,000 hours
- Triac dimmable as standard



White



Oak



Walnut

**LED Information**

Total (Watts)	9W
Lumens Delivered	680lm
Lm/W	76lm
CRI	Ra 93
CCT	3000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



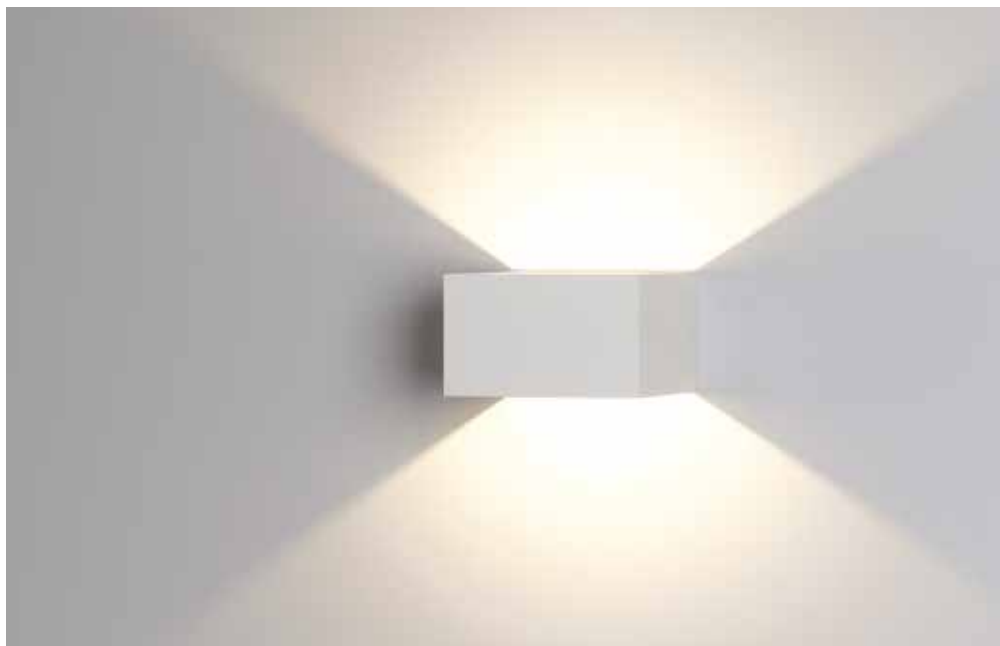
	Code	Lamp	Description
<b>Base</b>	<b>AFAMIWL/BASE</b>	LED	9W - Warm White
<b>Covers</b>	<b>AFAFC/W</b>		Front Cover - White
	<b>AFAFC/OAK</b>		Front Cover - Oak
	<b>AFAFC/WAL</b>		Front Cover - Walnut



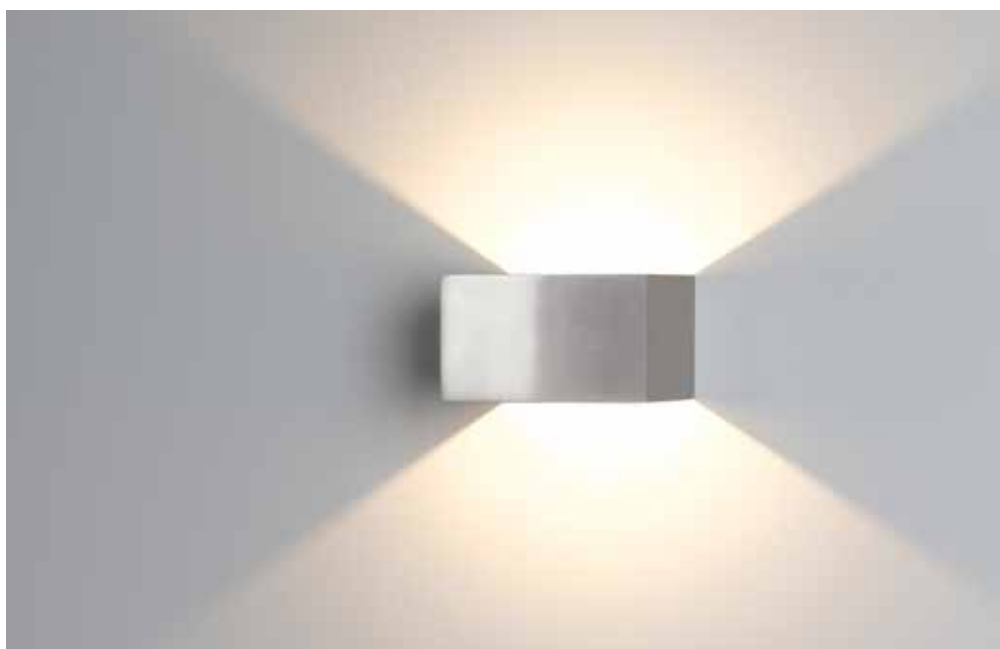
# Facet LED

c/w Integral Driver

148

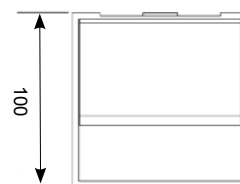
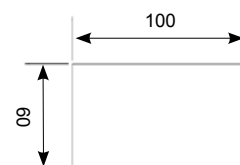


AFWLED/W



AFWLED/SC

- Surface bi-directional wall light providing vivid angled distribution
- Aluminium construction with an option of matt white or polished satin chrome finishes
- LED lifespan L70 60,000 hours
- Non-dimmable



### LED Information

Total (Watts)	4W
Lumens Delivered	183lm
Lm/W	46lm
CRI	Ra 93
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AFWLED/W	LED	4W Warm White - White
AFWLED/SC	LED	4W Warm White - Satin Chrome



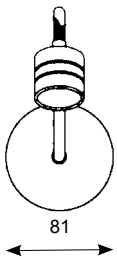
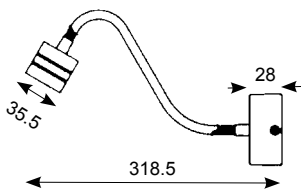
# Spectrum LED Gooseneck Wall Light

Supplied c/w Integral Driver



149

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



## LED Information

Total (Watts)	2W
Lumens Delivered	29lm
Lm/W	15lm
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



Code Lamp Description

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

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



# LED Drivers

## Constant Voltage Non-Dimmable



### Constant Voltage 12V



AD30W/12V



AD75W/12V

### Constant Voltage 24V / 48V



ADK15W/24V



ADK60W/24V



ADK120W/24V



ADK75W/48V

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

	Code	Description	A	B	C
12V	AD30W/12V	30W	166	24	52
	AD75W/12V	75W	180	30	52
24V	ADK15W/24V	15W	123	45	19
	ADK60W/24V	60W	180	52	36
	ADK120W/24V	120W	300	40	30
48V	ADK75W/48V	75W	180	52	30

A = Length B = Height C = Width





# LED Drivers

## Constant Current Non-Dimmable



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

### Constant Current 350mA



AD3W/350

AD9W/350



ADK20W/350

### Constant Current 700mA



AD3W/700



ADK12W/700



ADK20W/700

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

A = Length B = Height C = Width





## 12V 75W Dimmable



- 12V dimmable driver with minimum value dimming adjustment feature
- 0-100% dimming range
- 1-10V and switch dim
- Suitable for dimming up to 5 metres of Cobra 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



AMCD25W



AMCD50W

- 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

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

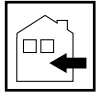


Terminals and dip-switch selection

	Code	Description	A	B	C	D
12V	ADDIM75W/12V	75W	220	42	58	190
Multi	AMCD25W	25W	103	21	67	94
Multi	AMCD50W	50W	125	22	79	111

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





- Auto reset for thermal, short circuit and overload protection
- 5 year guarantee
- Fully dimmable with most leading and trailing edge branded dimmers



ATX20/60

*Prewired Mains and secondary leads*



Code	Description	A	B	C
<b>ATX20/60</b>	20/60va	118	24	38



# Aluminium Profiles for LED Strip

(Supplied Less LED Strip)



Clear Diffuser Fitted

Opal Diffuser Fitted

Each profile supplied with



2 x Flat End Cap



2 x Wire Entry End Cap



6 x Fixing Clip



Clear Diffuser Fitted

Opal Diffuser Fitted

Each profile supplied with



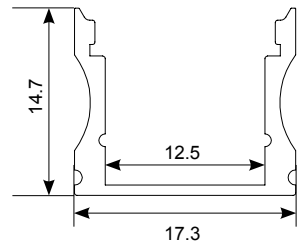
2 x Flat End Cap



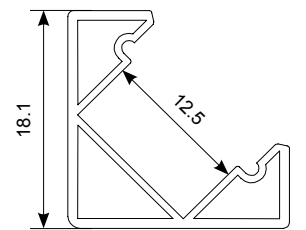
2 x Wire Entry End Cap



6 x Fixing Clip



Surface Extension



Angled Extension

- High quality anodised aluminium profiles for installation with 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

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





**Project - Trimmers Salon**  
Liverpool, UK

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

Supplied Less Driver

156



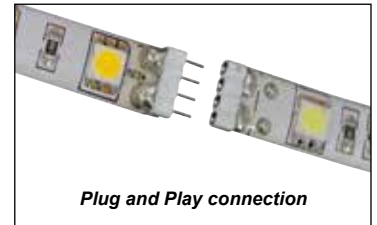
Cool White



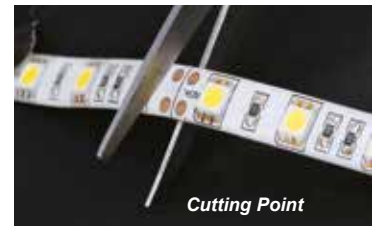
Warm White



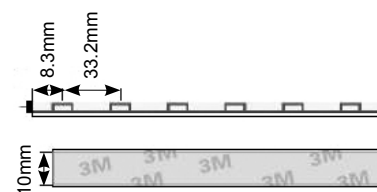
- Single colour and RGB flexible LED strip with self adhesive back
- Fast fit plug and play connections remove the need for time consuming soldering of joints
- Cutting points every 50mm (only if required)
- Joint and connection accessories sold separately
- Voltage drop of 1.5V per 5 metres
- LED lifespan L70 30,000 hours
- Dimmable with LED driver ADDIM75W/12V (see p152 for driver)



Plug and Play connection



Cutting Point



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

## LED Information

Total (Watts)	7.2W per metre
Lumens Delivered per metre	
Cool White	520lm
Warm White	495lm
Lm/W Cool White	80lm
Lm/W Warm White	75lm
CRI	Ra 80
CCT	4000K
	3000K
	RGB
Input	12V





• **JOINTS**

Easy fast-fit range of plug-in connections



ACLED/90



ACLED/TC



ACLED/90/FB



ACLED/XC

• **ACLED/RC/TOUCH**

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



ACLED/RC/TOUCH



ACLED/RC/AMP

• **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)



Link Lead Connection

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



# Cobra LED Plug and Play Flexible Strip **14.4W per Metre**

Supplied Less Driver



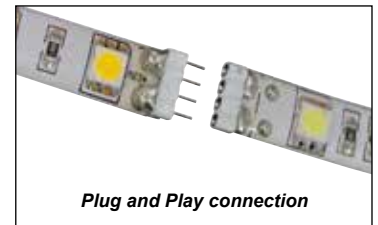
Cool White



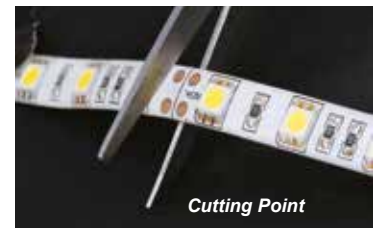
Warm White



- High density (brightness) single colour and RGB flexible LED strip with self adhesive back
- Fast fit plug and play connections remove the need for time consuming soldering of joints
- Cutting points every 50mm (only if required)
- Joint and connection accessories sold separately
- Voltage drop of 1.5V per 5 metres
- LED lifespan L70 40,000 hours
- Dimmable with LED driver ADDIM75W/12V (see p152 for driver)



Plug and Play connection



Cutting Point



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

## LED Information

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







- **JOINTS**  
Easy fast-fit range of plug-in connections



ACLED/90



ACLED/TC



ACLED/90/FB



ACLED/XC

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



ACLED/RC/TOUCH



ACLED/RC/AMP

- **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)



Link Lead Connection

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

# Python White Flexible LED Strip Kits

Supplied c/w Integral Driver

160



- 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 25,000 hours

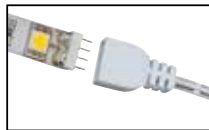
## Each Kit Includes:-



5M Strip



LED Driver



Plug-in Connection from Strip to Driver



Flexible Quick-Fit Joint

## LED Information

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

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



# Viper RGB Flexible LED Strip Kit



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



5M RGB Strip

**Each Kit Includes:-**



IR Controller



Power Supply



Receiver



Flexible Quick-Fit Joint

**LED Information**

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



Code	Lamp	Description
AVLED/KIT	LED	5M 36W RGB LED Strip Kit

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



# Mamba Tunable White Flexible LED Strip Kit

162



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



5M Tunable Strip

## Each Kit Includes:-



IR Controller



Power Supply



Receiver



Flexible Quick-Fit Joint

Code	Lamp	Description
AMLED/KIT/TUNE	LED	5M 30W Tunable White LED Strip Kit

## LED Information

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



# Concho

## 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



### MAINTENANCE FREE LED

### INSTALLATION LENGTH

- Ultra long runs
- 50 metres single colour
- 30 metres RGB

### OPTICALLY CLEAR THERMOPLASTIC SLEEVE For optimum performance



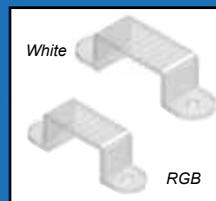
White LED Power Supply



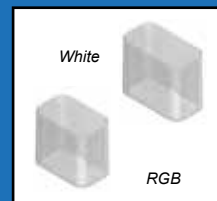
RGB LED Power Supply



RGB Flexi-Bend



Fixing Clips



End Caps

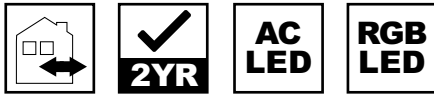


Silicon Glue

- 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)

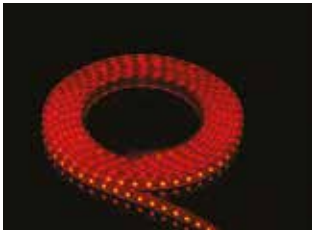
No Driver Required



Warm White



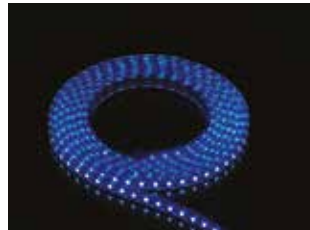
Cool White



R



G



B

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

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

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

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

## White LED 50 Metre Drums

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

## RGB LED 30 Metre Drums

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

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

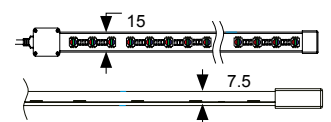
### White LED Cut-Lengths

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

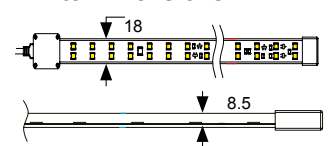
### RGB LED Cut-Length

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

### RGB Dimensions



### White Dimensions



### LED Information

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





# Axiom LED Linear Plug and Play Rigid Strip

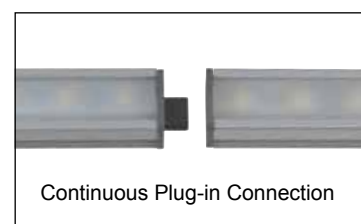
Supplied Less Driver

166



- Ultra slim profile rigid linkable LED strip
- Suitable for continuous illumination to a maximum of 5 metres
- Protective front cover
- Supplied with metal flush fixing clips
- LED lifespan L70 40,000 hours

Note:  
Mains lead (AAXLED/ML) ordered separately



	Code	Lamp	Description	Length	Width	Depth
<b>Cool White</b>	<b>AAXLED/30/CW</b>	LED	4W-Cool White	300	20	12
	<b>AAXLED/50/CW</b>	LED	7W-Cool White	500	20	12
	<b>AAXLED/90/CW</b>	LED	12W-Cool White	900	20	12
<b>Warm White</b>	<b>AAXLED/30/WW</b>	LED	4W-Warm White	300	20	12
	<b>AAXLED/50/WW</b>	LED	7W-Warm White	500	20	12
	<b>AAXLED/90/WW</b>	LED	12W-Warm White	900	20	12
<b>Accessories</b>	<b>AAXLED/ML</b>		1500mm Mains Lead			
	<b>AAXLED/250LL</b>		250mm Link Lead			
	<b>AAXLED/500LL</b>		500mm Link Lead			
	<b>AAXLED/1000LL</b>		1000mm Link Lead			
	<b>AD30W/12V</b>		30W 12V LED Driver			
	<b>AD75W/12V</b>		75W 12V LED Driver			
	<b>ADDIM75W/12V</b>		75W 12V Dimmable (1-10V or Switch Dim)			

## LED Information

	Cool White	Warm White
<b>Total (Watts)</b>	4W	7W
		12W
<b>Lumens Delivered</b>	282lm	284lm
	460lm	454lm
	791lm	830lm
<b>Lm/W 4W</b>	71lm	71lm
<b>Lm/W 7W</b>	66lm	65lm
<b>Lm/W 12W</b>	66lm	69lm
<b>CRI</b>	Ra 60	
<b>CCT</b>	5500K	
	3000K	
<b>Input</b>	12V DC	
<b>Hertz</b>	50/60Hz	
<b>Operating Temp</b>	-20°C to 45°C	







- LED linklight with integral driver for domestic applications
- Exceeds performance of T5 fluorescent equivalent
- Up to 50% energy savings compared to fluorescent equivalents
- Moulded spine fitted with integral switch and fixed diffuser
- Linkable up to a maximum of twelve fittings
- LED lifespan L70 50,000 hours
- Non-dimmable



### LED Information

	Cool White	Warm White
Total (Watts)	3W	
	7W	
	13W	
	18W	
Lumens Delivered	273lm	247lm
	710lm	646lm
	1366lm	1305lm
	1752lm	1749lm
Lm/W	91lm	82lm
	101lm	92lm
	98lm	93lm
	97lm	97lm
CRI	Ra 60	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-5°C to 40°C	

	Code	Lamp	Description	Length	Width	Depth
<b>Cool White</b>	<b>AMALED20/CW</b>	LED	3W - Cool White	220	22.8	38.4
	<b>AMALED50/CW</b>	LED	7W - Cool White	525	22.8	38.4
	<b>AMALED80/CW</b>	LED	13W - Cool White	858	22.8	38.4
	<b>AMALED120/CW</b>	LED	18W - Cool White	1158	22.8	38.4
<b>Warm White</b>	<b>AMALED20/WW</b>	LED	3W - Warm White	220	22.8	38.4
	<b>AMALED50/WW</b>	LED	7W - Warm White	525	22.8	38.4
	<b>AMALED80/WW</b>	LED	13W - Warm White	858	22.8	38.4
	<b>AMALED120/WW</b>	LED	18W - Warm White	1158	22.8	38.4
<b>Accessories</b>	<b>A250TLL/T5</b>	250mm Link Lead				
	<b>A500TLL/T5</b>	500mm Link Lead				
	<b>A1000TLL/T5</b>	1000mm Link Lead				



# WAREHOUSE



**Project - Warehouse Retail Store**  
Belfast, UK

# 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 63,000 hours
- Non-dimmable



## LED Information

Cool White      Warm White

Total (Watts)	6W	
	10W	
	16W	
	22W	
Lumens Delivered	535lm	531lm
	928lm	871lm
	1660lm	1373lm
	2205lm	2090lm
Lm/W	89lm	89lm
	103lm	87lm
	111lm	92lm
	100lm	95lm
CRI	Ra 80	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50/60Hz	
Operating Temp	-5°C to 40°C	

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



# T5 Triphosphor Linklight

Supplied c/w Lamp

170



- Fitted with integral switch and diffuser
- Linkable up to 6 fittings using optional 250mm, 500mm and 1000mm leads
- Fixing brackets supplied to allow either vertical or horizontal installation
- Lamp colour 3400k

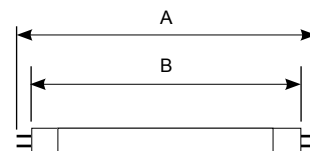


Code	Lamp	Description	Length	Width	Depth
<b>A6TP/T5</b>	T5	6W	278	22	43
<b>A8TP/T5</b>	T5	8W	358	22	43
<b>A14TP/T5</b>	T5	14W	618	22	43
<b>A21TP/T5</b>	T5	21W	916	22	43
<b>A28TP/T5</b>	T5	28W	1215	22	43
<b>A35TP/T5</b>	T5	35W	1515	22	43

## Accessories

Link Leads	Code	Length
	<b>A250TLL/T5</b>	250mm
	<b>A500TLL/T5</b>	500mm
	<b>A1000TLL/T5</b>	1000mm

			A	B
<b>Tubes</b>	<b>A6TT/T5</b>	6W	225	212
	<b>A8TT/T5</b>	8W	302	288
	<b>A14TT/T5</b>	14W	564	548
	<b>A21TT/T5</b>	21W	862	848
	<b>A28TT/T5</b>	28W	1162	1147
	<b>A35TT/T5</b>	35W	1462	1448



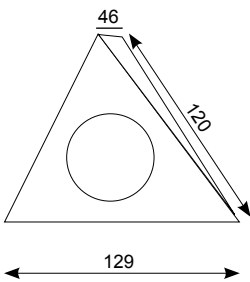
CE □ HF IP20

# Reveal AC LED Tri-Light

No Driver Required



- AC 240V 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



ARLEDTL/CW



ARLEDTL/WW

### LED Information

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



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



# Reveal AC LED Cabinet Light

No Driver Required

172

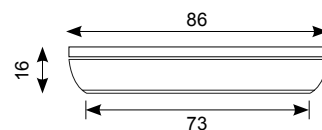


ARCLD/CW/W



ARCLD/CW/SS

- 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



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

## LED Information

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





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



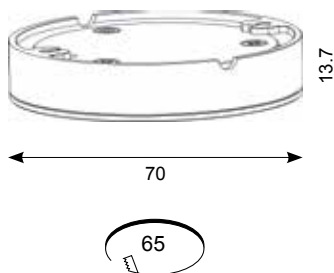


# Trio LED Cabinet Light Kit

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



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



6 Way Plug and Play Connection

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

### LED Information

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



ATCKLED/W  
(Kit)



ATCKLED/SI  
(Kit)



ATCSLED/W  
(Individual)



ATCSLED/SI  
(Individual)

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



# Edison LED

Supplied c/w Integral Driver

176



AEWLED/SG

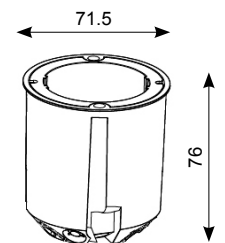
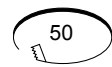
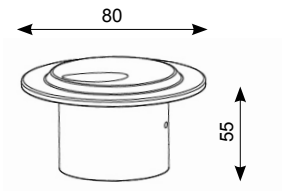


AEWLED/W

- Recessed low level wall light with integral driver for external and internal applications
- Ideal for stairways, corridors and plinths
- Die-cast aluminium construction with white or silver grey powder coated finish
- Pre-wired with 0.5 metre of rubber insulated cable
- LED lifespan L70 40,000 hours
- Non-dimmable



Supplied with wall box for installation into solid walls



Wall box dimensions



### LED Information

Total (Watts)	4W
Lumens Delivered	30lm
Lm/W	7lm
CRI	Ra 50
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
<b>AEWLED/W</b>	LED	4W Cool White - White
<b>AEWLED/SG</b>	LED	4W Cool White - Silver Grey





**Project - Hilton Hotel**  
Edinburgh, UK

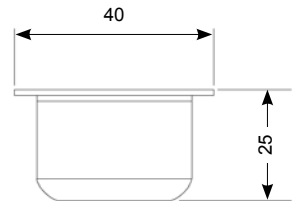
# Melita LED Plug and Play Kit

Supplied c/w Remote Driver

178



- Recessed LED 5-light kit for plinths and panelling
- Brushed aluminium bezel
- Pre-wired with 1 metre mains cable and plug-in driver
- 2 Metre plug and play connections
- LED lifespan L70 30,000 hours
- Non-dimmable



## LED Information

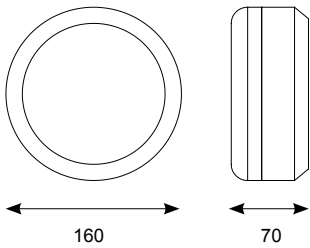
Total (Watts)	2.5W
Lumens Delivered	5x30lm
Lm/W	12lm
CRI	Ra 80
CCT	6000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
<b>AMPLED</b>	LED	5 x 0.5W Cool White





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



**LED Information**

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



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



# Gamma LED

Supplied c/w Integral Driver

180

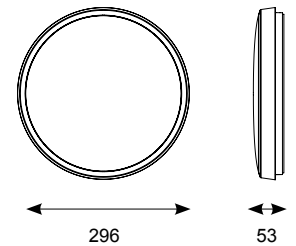


Chrome Trim Ring Fitted



Ultra slim profile

- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Outperforms 38W CFL with opal diffuser by 25% and prismatic diffuser by 52%
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- LED lifespan L70 50,000 hours
- Non-dimmable



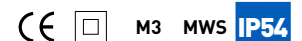
Code	Lamp	Description
<b>AGAMLED</b>	LED	18W - Cool White
<b>AGAMLED/WW</b>	LED	18W - Warm White

Options		
<b>/M3</b>	Emergency	
<b>/MWS</b>	Internal Microwave Sensor	
<b>/MWS/M3</b>	Integral Microwave Sensor and Emergency	

Accessories	AGAMLEDBZ/CH	Chrome Trim Ring
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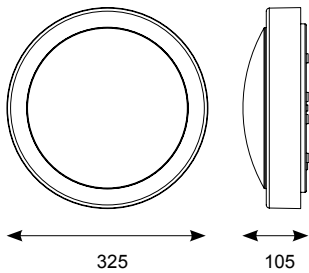
### LED Information

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





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



**IP65**

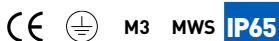
AJALED



Chrome Trim Ring Fitted

**LED Information**

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



Code	Lamp	Description
<b>AJALED</b>	LED	14W - Cool White

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

<b>Accessories</b>	<b>AJALEDDBZ/CH</b>	Chrome Trim Ring
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# Disco Slim LED

Supplied c/w Integral Driver

182



ADSILED1

IP65

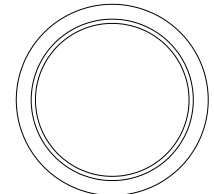
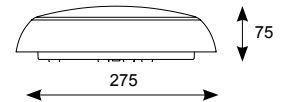


fitted with chrome trim ring

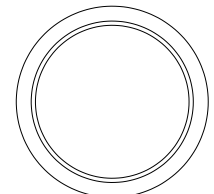
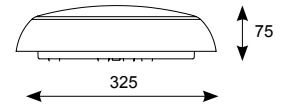


fitted with graphite trim ring

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- 8W exceeds performance of 16W CFL
- 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
- Non-dimmable



ADSILED1



ADSILED2

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

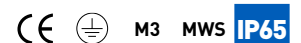
ADSILED2	LED	13W - Cool White
ADSILED2/WW	LED	13W - Warm White

Options		
/M3	Emergency (13W only)	
/MWS	Integral Microwave Sensor (13W only)	
/MWS/M3	Integral Microwave Sensor and Emergency (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 (14W)	
ADSILED/2BZ/GR	Graphite Trim Ring (14W)	

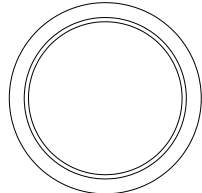
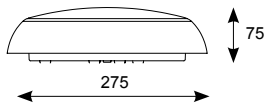
## LED Information

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

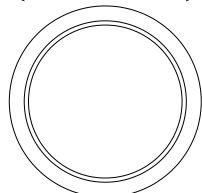
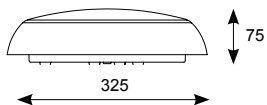




- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- Unique design creates halo light spill effect
- 8W exceeds performance of 28W TC-DD
- 13W comparable performance to 40W TC-DD
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION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



ADSIHLED1



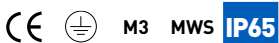
ADSIHLED2

Cool White Warm White

**LED Information**

Cool White Warm White

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



# Disco Slim Halo LED

Supplied c/w Integral Driver



ADSIHLED1

**IP65**



Halo light spill effect



fitted with chrome trim ring



fitted with graphite trim ring

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

<b>ADSIHLED2</b>	LED	13W - Cool White
<b>ADSIHLED2/WW</b>	LED	13W - Warm White

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

Accessories	Description
<b>ADSILED/1BZ/CH</b>	Chrome Trim Ring (8W)
<b>ADSILED/1BZ/GR</b>	Graphite Trim Ring (8W)
<b>ADSILED/2BZ/CH</b>	Chrome Trim Ring (14W)
<b>ADSILED/2BZ/GR</b>	Graphite Trim Ring (14W)



# Disco LED

Supplied c/w Integral Driver

184



ADILED1

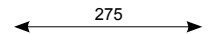
IP65



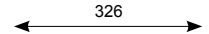
ADILED2

IP65

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



ADILED1



ADILED2

Code	Lamp	Description
<b>ADILED1</b>	LED	8W - Cool White
<b>ADILED2</b>	LED	14W - Cool White
<b>/M3</b>	Emergency (14W only)	
<b>/MWS</b>	Integral Microwave Sensor (14W only)	
<b>/MWS/M3</b>	Integral Microwave Sensor and Emergency (14W only)	
<b>/MWS/M3/CF</b>	Integral Microwave Sensor and Emergency CorridorFUNCTION (14W only)	

<b>ADI16BZ/BR</b>	Brass Trim Ring (8W)	
<b>ADI16BZ/CH</b>	Chrome Trim Ring (8W)	
<b>ADI16BZ/SG</b>	Silver Grey Trim Ring (8W)	

<b>ADI28BZ/BR</b>	Brass Trim Ring (14W)	
<b>ADI28BZ/CH</b>	Chrome Trim Ring (14W)	
<b>ADI28BZ/SG</b>	Silver Grey Trim Ring (14W)	

### LED Information

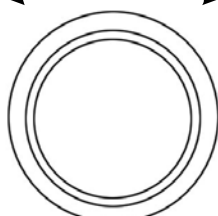
Total (Watts)	8W
	14W
Lumens Delivered	539lm
	860lm
Lm/W	67lm
	61lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 25°C

CE M3 MWS IP65

- All polycarbonate construction with opal diffuser and white trim ring
- Optional trim rings available in brass, chrome and silver grey finishes
- Suitable for bathrooms



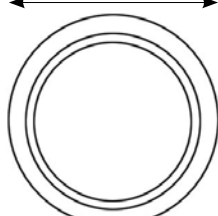
275



ADI16/HF



326



ADI28/HF



IP65



fitted with brass trim ring



fitted with chrome trim ring



fitted with silver grey trim ring

Code	Lamp	Description
<b>ADI16/HF</b>	TC-DD	16W
<b>ADI28/HF</b>	TC-DD	28W

#### Options

<b>/M3</b>	Emergency (28W only)
<b>/MWS</b>	Integral Microwave Sensor (28W only)

Accessories	Description
<b>ADI16BZ/BR</b>	Brass Trim Ring (16W)
<b>ADI16BZ/CH</b>	Chrome Trim Ring (16W)
<b>ADI16BZ/SG</b>	Silver Grey Trim Ring (16W)

<b>ADI28BZ/BR</b>	Brass Trim Ring (28W)
<b>ADI28BZ/CH</b>	Chrome Trim Ring (28W)
<b>ADI28BZ/SG</b>	Silver Grey Trim Ring (28W)

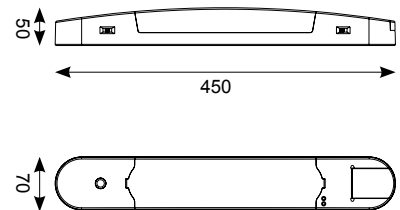
# Profile Dual Voltage LED Razor Light

c/w Integral Driver

186



- Ultra-slim unobtrusive modern design
- Directional light output provides optimum facial illumination
- All switches SELV rated for ultimate safety
- Night light function with four minute timed override switch for full power output
- Only 1.8W power consumption in night light mode
- Optional wiring facility for remote bedside operation of night light function
- USB 2A charge port
- 110/230V selectable shaver output and isolating transformer
- LED lifespan L70 40,000 hours



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



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



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

## LED Information

Total (Watts)	8W
Lumens Delivered	
Full Power	436lm
Night light	33lm
Lm/W	55lm
CRI	Ra 76
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 40°C

Code	Lamp	Description
APLEDDVRL	LED	8W - Cool White



# Dual Voltage Razor Light

Supplied c/w Lamp



187

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



Dimensions - mm

Length 493

Width 60

Depth 71



Code	Lamp	Description
ADVRL	284mm Strip	60W - White

# Dual Voltage Shaver Socket



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



ADVSS



Code	Lamp	Description
ADVSS		Dual Voltage Shaver Socket

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





## Project

Southport Flower Show



Meteor LED

p312



Flora GU10

p317



# *Amenity*

12 Product Groups

| 351 Products

# Amenity

193



*Decorative Wall*

203



*Architectural Die-Cast Wall*

219



*Directional Wall*

240



*Decorative Ceiling / Wall*

243



*Polycarbonate Ceiling / Wall*

261



*Bulkheads*



266

*Recessed Wall*

278

*Lanterns and Half Lanterns*

286

*Bollards*

308

*Architectural Projector*

310

*Feature Landscape Illumination*

319

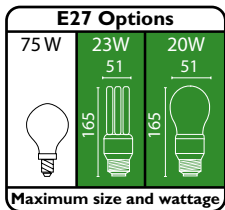
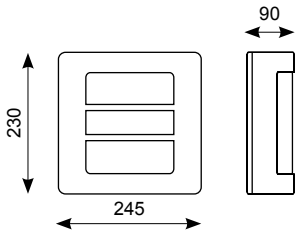
*Inground Uplights and Controllers*



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



- 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

**Accessories ASSCK** Stainless Steel Cleaning Kit (see page 428)



# Callisto AC LED Low Level

No Driver Required

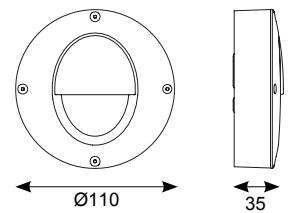


ACLPWLED/W



ACLPWLED/GR

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



### LED Information

Total (Watts)	4W
Lumens Delivered	121lm
Lm/W	31lm
Beam Angle	85°
CRI	Ra 80
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-40°C to 80°C

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





# Callisto AC LED Wall/Ceiling

No Driver Required

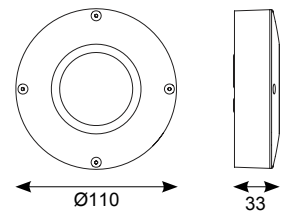


ACLED/W



ACLED/GR

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



### LED Information

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

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





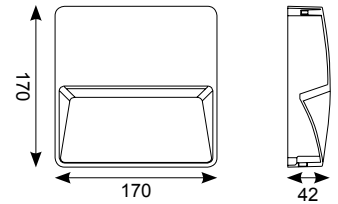
# Galia LED

Supplied c/w Integral Driver

198



- Surface mounting ultra-slim low level square pathway light with downward light-spill
- Die-cast aluminium construction with graphite paint finish
- Comparable performance to 26W PLC
- Screwless front cover with concealed allen key access
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

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

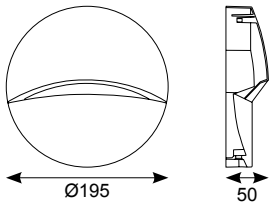
Code	Lamp	Description
<b>AGALSQLED</b>	LED	10W - Cool White







- Surface mounting ultra-slim low level circular pathway light with downward light-spill
- Die-cast aluminium construction with graphite paint finish
- Comparable performance to 26W PLC
- Screwless front cover with concealed allen key access
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	10W
Lumens Delivered	360lm
Lm/W	36lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



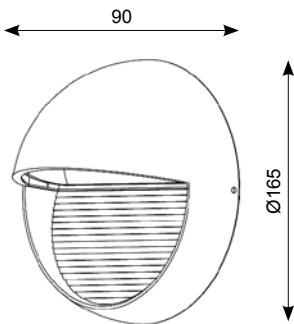
Code	Lamp	Description
<b>AMATROLED</b>	LED	10W - Cool White







- 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



AKLED/B



AKLED/SG

### LED Information

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



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



# Vela LED

Supplied c/w Integral Driver

202

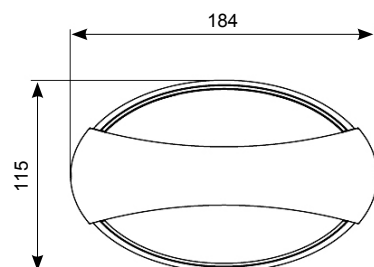
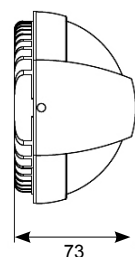


AVLED/B



AVLED/SG

- Compact wall light with integral driver
- Die-cast aluminium construction with opaque polycarbonate diffuser
- LED lifespan L70 40,000 hours
- Non-dimmable



### LED Information

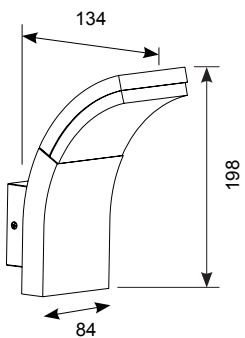
Total (Watts)	5W
Lumens Delivered	96lm
Lm/W	19lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
AVLED/B	LED	5W Cool White - Black
AVLED/SG	LED	5W Cool White - Silver Grey





- Contemporary die-cast aluminium LED wall light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 40,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	7W
Lumens Delivered	366lm
Lm/W	52lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



ASELED/WL



ASELED/WL/PIR

	Code	Lamp	Description
Standard	ASELED/WL	LED	7W Cool White
PIR	ASELED/WL/PIR	LED	7W - PIR - Cool White



# Arco LED

Supplied c/w Integral Driver

204

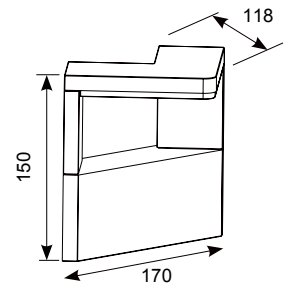


AARLED/WL



AARLED/WL/PIR

- Ultra modern LED wall light
- Standard and PIR options
- Graphite textured powder coat paint finish
- LED lifespan L70 40,000 hours
- Non-dimmable



### LED Information

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

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



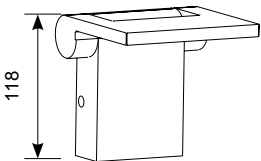
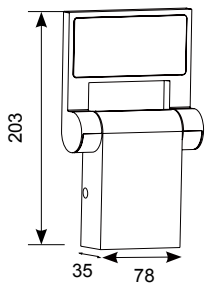
# Tempo LED

Supplied c/w Integral Driver



205

- 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 40,000 hours
- Non-dimmable



**PIR**



8 metres  
8 seconds to 8 minutes  
5 to 100 LUX

### LED Information

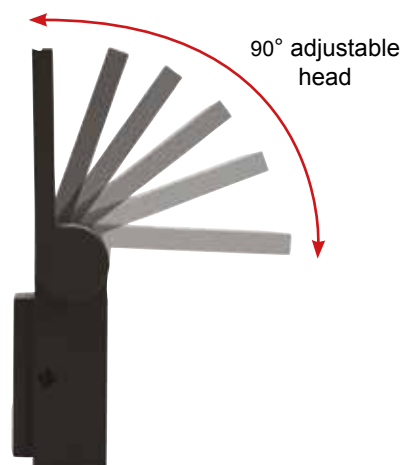
Total (Watts)	10W
Lumens Delivered	738lm
Lm/W	73lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



ATLED/WL



ATLED/WL/PIR



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

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



# Visage LED

Supplied c/w Integral Driver

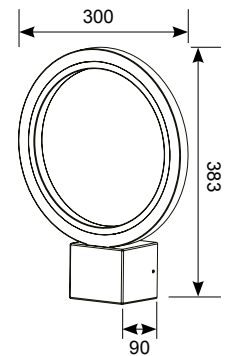


AVISLED/WL



AVISLED/WL/PIR

- Ultra modern 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)	10W
Lumens Delivered	628lm
Lm/W	63lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 55°C

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



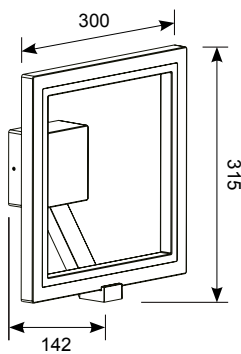


# Trim LED

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)	10W
Lumens Delivered	600lm
Lm/W	60lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 55°C



PIR



ATRLED/WL



ATRLED/WL/PIR

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

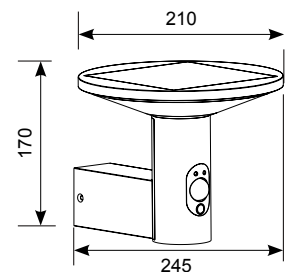


# Talana Solar LED

Supplied c/w Integral Driver



- Ultra modern die-cast solar powered aluminium LED wall light
- PIR motion sensor as standard
- 2 operation modes:-  
1) 11% output after sunset, motion detected 100% output, no motion 11% for 20 hours  
2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours



### LED Information

Lumens Delivered	210lm
CRI	Ra 80
CCT	4000K
Operating Temp	-25°C to 55°C

Code	Lamp	Description
ATASLED/WL	LED	Cool White

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



- Die-cast aluminium construction with tamper-proof stainless steel allen key screws and opal polycarbonate diffuser
- IK10 rated
- LED lifespan L70 50,000 hours
- Non-dimmable

## Uno LED

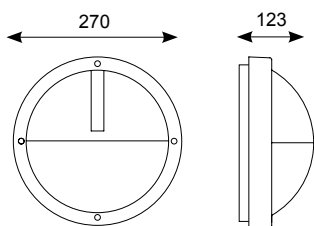
Supplied c/w Integral Driver



209



AUNLED/SG



AUNLED

### LED Information

Total (Watts)	12W
Lumens Delivered	442lm
Lm/W	37lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



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

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



# Quad LED

Supplied c/w Integral Driver

210

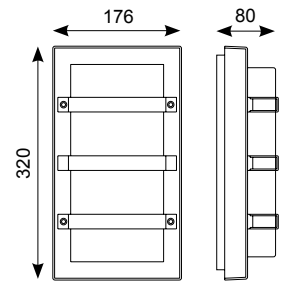


AQULED/SG



AQULED

- Die-cast aluminium construction with opal polycarbonate diffuser
- IK10 rated
- Exceeds performance of 18W PLC
- Tamper-proof stainless steel allen key screws
- LED lifespan L70 40,000 hours
- Non-dimmable



### LED Information

Total (Watts)	13W
Lumens Delivered	741lm
Lm/W	57lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C

Code	Lamp	Description
<b>AQULED</b>	LED	13W - Cool White - Black
<b>AQULED/SG</b>	LED	13W - Cool White - Silver Grey

<b>Options</b>	<b>/MWS</b>	Integral Microwave Sensor
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# Piano LED

Supplied c/w Integral Driver

212



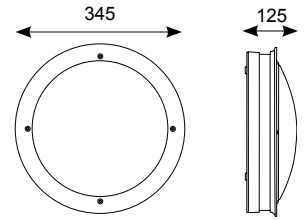
APILED

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▼ enlightening your ideas



APILED/SG

- Halo light spill effect
- Die-cast aluminium construction with tamper-proof stainless steel allen key screws retain opal polycarbonate diffuser and frame
- IK10 rated
- Exceeds performance of 2 x 26W PLC
- Removable gear tray for ease of installation
- Optional mounting frame for photocell location and /or surface conduit entry
- LED lifespan L70 50,000 hours
- Non-dimmable



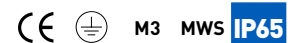
Code	Lamp	Description
<b>APILED</b>	LED	25W - Cool White - Black
<b>APILED/SG</b>	LED	25W - Cool White - Silver Grey

Options	Code	Description
	<b>/M3</b>	Emergency
	<b>/MWS</b>	Integral Microwave Sensor

Accessories	Code	Description
	<b>AQMB</b>	Mounting Frame - Black (see page 217)
	<b>AQMB/SG</b>	Mounting Frame - Silver Grey (see page 217)

### LED Information

Total (Watts)	25W
Lumens Delivered	787lm
Lm/W	32lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C











- Halo light spill effect
- Die-cast aluminium construction with tamper-proof stainless steel allen key screws retain opal polycarbonate diffuser and frame
- IK10 rated
- Exceeds performance of 2 x 26W PLC
- Removable gear tray for ease of installation
- Optional mounting frame for photocell location and /or surface conduit entry
- LED lifespan L70 50,000 hours
- Non-dimmable

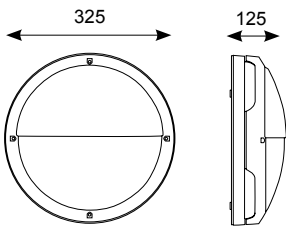


ATALED

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ATALED/SG



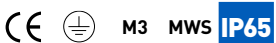
**LED Information**

Total (Watts)	25W
Lumens Delivered	417lm
Lm/W	17lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C

Code	Lamp	Description
<b>ATALED</b>	LED	25W - Cool White - Black
<b>ATALED/SG</b>	LED	25W - Cool White - Silver Grey

Options	/M3	Emergency
	/MWS	Integral Microwave Sensor

Accessories AQMB	Mounting Frame - Black (see page 217)
<b>AQMB/SG</b>	Mounting Frame - Silver Grey (see page 217)



# Canto LED

Supplied c/w Integral Driver

216



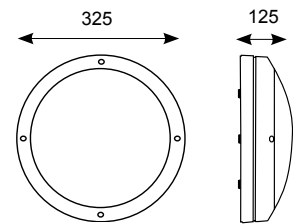
ACALED

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ACALED/SG

- Die-cast aluminium construction with tamper-proof stainless steel allen key screws retain opal polycarbonate diffuser and frame
- IK10 rated
- Exceeds performance of 2 x 26W PLC
- Removable gear tray for ease of installation
- Optional mounting frame for photocell location and /or surface conduit entry
- LED lifespan L70 50,000 hours
- Non-dimmable



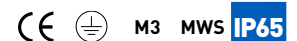
Code	Lamp	Description
<b>ACALED</b>	LED	25W - Cool White - Black
<b>ACALED/SG</b>	LED	25W - Cool White - Silver Grey

Options		
<b>/M3</b>	Emergency	
<b>/MWS</b>	Integral Microwave Sensor	

Accessories		
<b>AQMB</b>	Mounting Frame - Black (see page 217)	
<b>AQMB/SG</b>	Mounting Frame - Silver Grey (see page 217)	

### LED Information

Total (Watts)	25W
Lumens Delivered	787lm
Lm/W	32lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C





- Surface mounting frame to enable conduit entry and/or installation of photocell to Piano, Canto and Tardo (pages 212-216)
- Space within mounting frame for BESA box fixing
- Four 20mm conduit entries

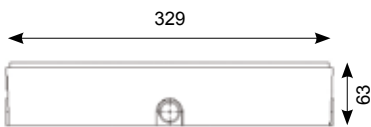
Photocell should be ordered separately as detailed below



AQMB/SG



AQMB



AQMB with dual conduit entry/exit and top photocell fitted

Code	Description
<b>Accessories AQMB</b>	Black
<b>AQMB/SG</b>	Silver Grey
<b>AMICRO2P</b>	20mm Electronic 2 Part Photocell





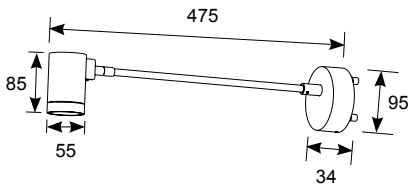
Mercure  
HOTELS

# Presto AC LED Display Light

No Driver Required



- LED display light for illumination of signs, menu boards, gardens and sides of buildings
- No driver required
- Extension arm 385mm with adjustable head to an angle of 90°
- Die-cast aluminium construction with textured graphite paint finish
- LED lifespan L70 40,000 hours
- Non-dimmable



## LED Information

Total (Watts)	8W
Lumens Delivered	440lm
Lm/W	55lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



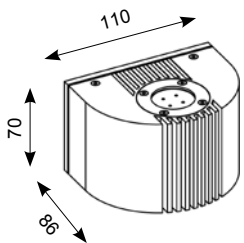
Code	Lamp	Description
APRLEDFL	LED	8W - Cool White







- Compact architectural bi-directional wall light
- Comparable performance to 20W HQI
- Die-cast aluminium construction
- LED lifespan L70 60,000 hours
- Non-dimmable



AALED/B



AALED/SG

**LED Information**

Total (Watts)	8W
Lumens Delivered	2 x 286lm
Lm/W	71lm
Beam Angle	25°
CRI	Ra 80
CCT	4000k
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
<b>AALED/B</b>	LED	8W - Cool White - Black
<b>AALED/SG</b>	LED	8W - Cool White - Silver Grey

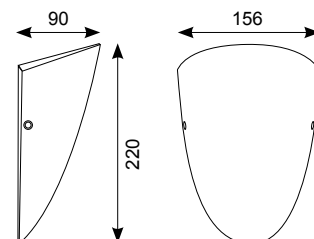


# Tulip LED

Supplied c/w Integral Driver



- Die-cast aluminium upright with glass cover
- Comparable performance to 100W halogen and exceeds 1x26W PLC equivalent
- Black textured paint finish
- Suitable for internal and external applications
- LED lifespan L70 57,000 hours
- Non-dimmable



### LED Information

Total (Watts)	14W
Lumens Delivered	824lm
Lm/W	59lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

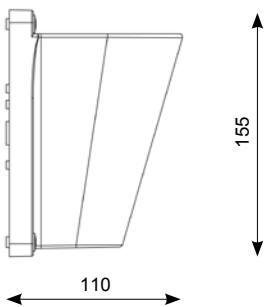
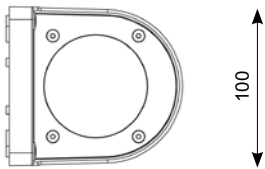
Code	Lamp	Description
ATULED	LED	14W - Cool White







- Compact die-cast aluminium wall light
- Installation in either upward or downward orientation
- Luminaire design allows for installation of GU10 LED or GU10 CFL lamps
- Graphite textured paint finish



Code	Lamp	Description
ADU50	GU10	50W



# Lyra 80

Supplied Less Lamp



224

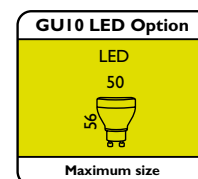
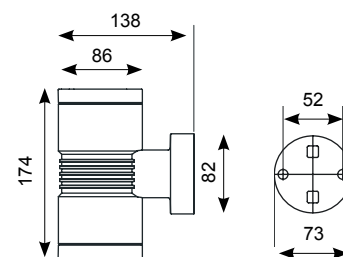


ALY2X35GU10/SI



ALY2X35GU10/GR

- Architectural bi-directional die-cast wall light
- Suitable for GU10 LED or GU10 mains halogen lamp options
- Head of fitting rotates allowing exact alignment after installation



Code	Lamp	Description
ALY2X35GU10/GR	GU10	2 x 35W - Graphite
ALY2X35GU10/SI	GU10	2 x 35W - Silver





**Project - Harveys Restaurant**  
Rhuddlan, UK

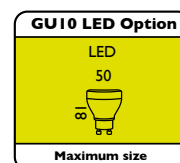
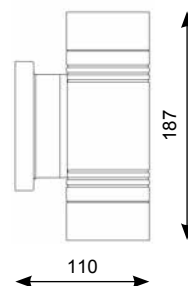
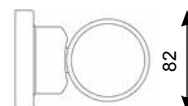
# Tandem

Supplied Less Lamp

226



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

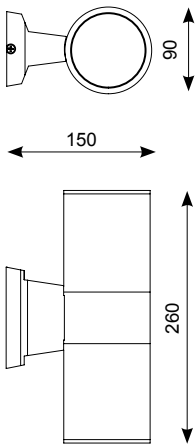


Code	Lamp	Description
ATA2X50	GU10	2 x 50W





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



ADM50GU10/SG

ADM50GU10

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



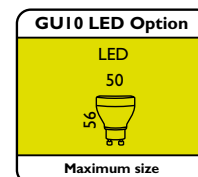
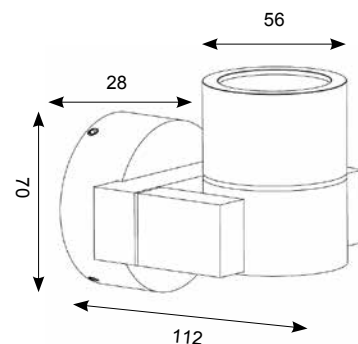
# Riola

Supplied Less Lamp

228



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

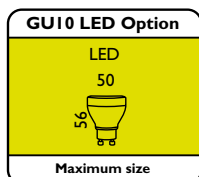
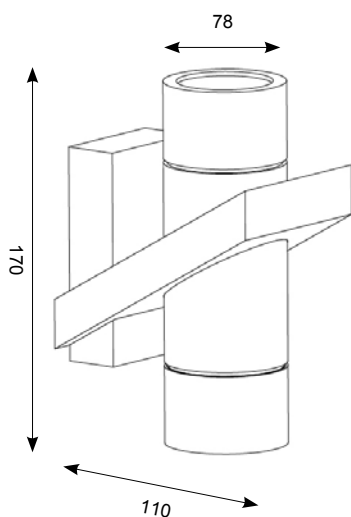


Code	Lamp	Description
ARGU10	GU10	35W





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



Code	Lamp	Description
ACO2X35	GU10	2 x 35W



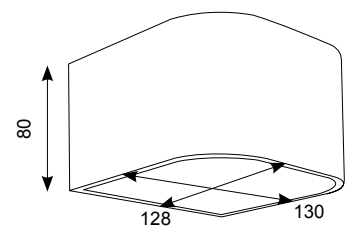
# Gila LED

Supplied c/w Integral Driver

230



- 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 60,000 hours
- Non-dimmable



## LED Information

Total (Watts)	11W
Lumens Delivered	202lm
Lm/W	18lm
Beam Angle	123°
CRI	Ra 93
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C

Code	Lamp	Description
AGLED/WL	LED	11W - Cool White



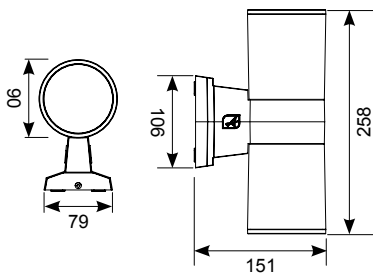


# Duo Midi LED

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 40,000 hours
- Non-dimmable



ADMLED1/GR/CW

### LED Information

Total (Watts)	19W
	42W
Lumens Delivered	
19W	1752lm
40W	3582lm
Lm/W 19W	92lm
Lm/W 40W	85lm
Beam Angle	34°
CRI	Ra 80
CCT	4000K
Input	220V-240V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



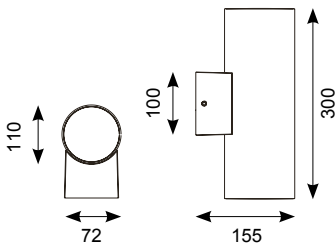
Code	Lamp	Description
<b>ADMLED1/GR/CW</b>	LED	19W - Cool White - Graphite
<b>ADMLED2/GR/CW</b>	LED	42W - Cool White - Graphite







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



**LED Information**

Total (Watts)	34W
Lumens Delivered	2 x 848lm
Lm/W	50lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
ADOLEDWL	LED	34W - Cool White



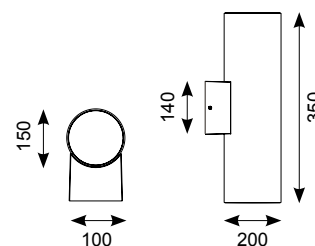
# Doppio HP LED

Supplied c/w Integral Driver

234



- High performance architectural bi-directional wall light
- Exceeds performance of 150W Metal Halide
- Die-cast aluminium construction with graphite paint finish
- 20° beam angle
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

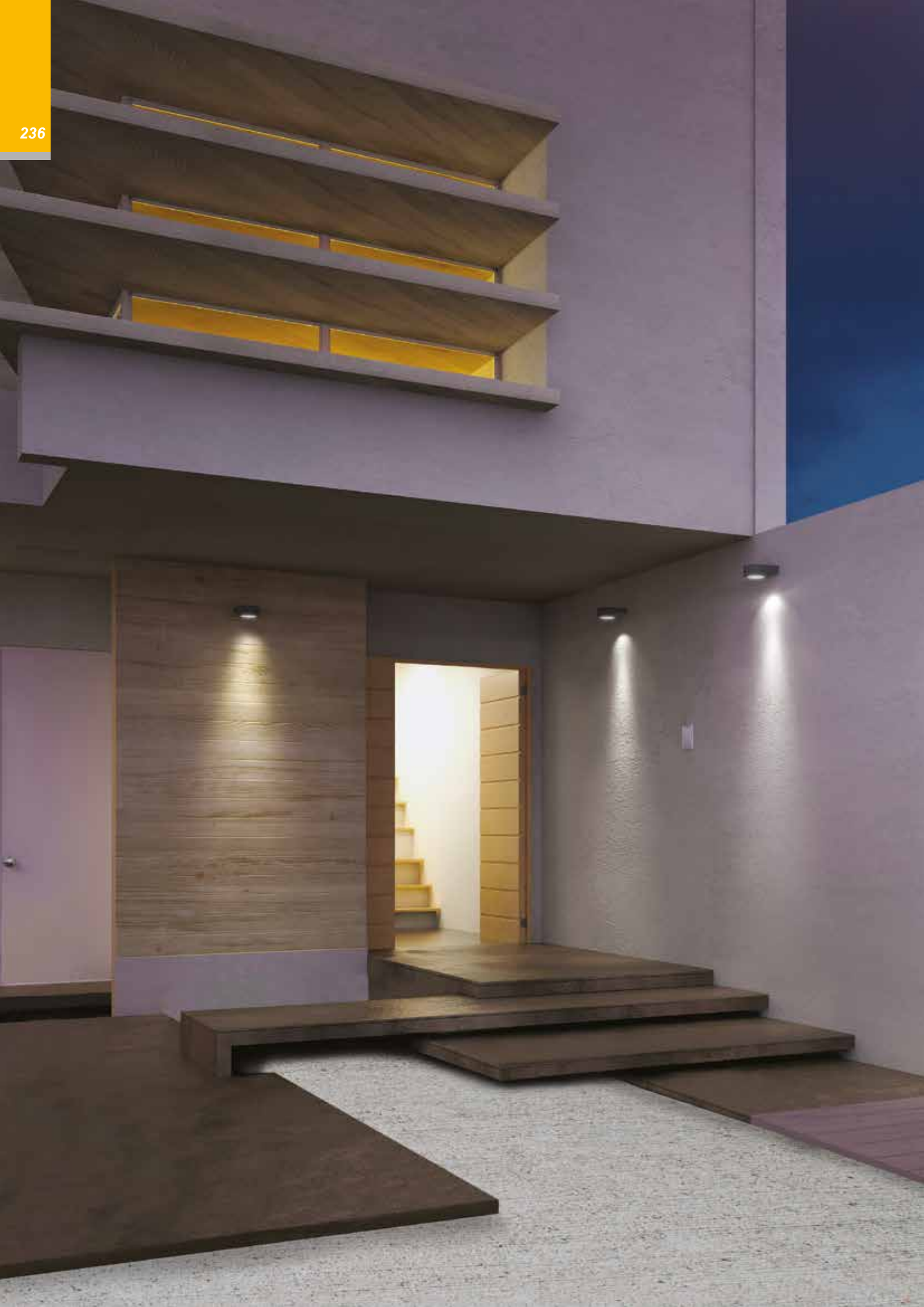
Total (Watts)	56.3W
Lumens Delivered	2x2573lm
Lm/W	91lm
Beam Angle	20°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
ADOLEDWL/HP	LED	56.3W - Cool White





**Project - Aintree University Hospital**  
Liverpool, UK



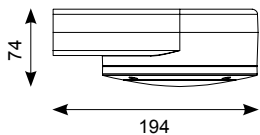
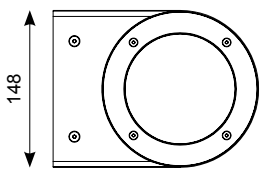
# Beam AC LED

No Driver Required



237

- 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



## LED Information

Total (Watts)	20W
Lumens Delivered	1624lm
Lm/W	81lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 35°C



Code	Lamp	Description
<b>ABEAMLED</b>	LED	20W - Cool White

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



# Aero LED

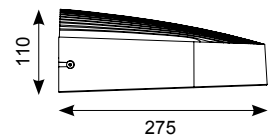
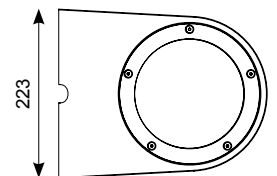
Supplied c/w Integral Driver

238



Top View

- 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 40,000 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

Code	Lamp	Description
AAROLED	LED	12W - Cool White







# Eclipse MultiLED

Supplied c/w Integral Driver

240



AECLD/CH

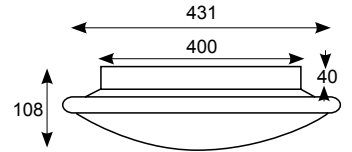


AECLD/W



AECLD/SC

- LED wall/ceiling luminaire with adjustable power and light output option
- One product with integral driver dip-switch provides option of three lumen packages :- 1220lm, 1550lm or 2600lm
- 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
- Option of White, Chrome or Satin Chrome housing
- LED lifespan L70 54,000 hours



Code	Lamp	Description
<b>AECLD/W</b>	LED	11W/14W/25W - White
<b>AECLD/CH</b>	LED	11W/14W/25W - Chrome
<b>AECLD/SC</b>	LED	11W/14W/25W - Satin Chrome

Options	Code	Description
	<b>/M3</b>	Self-Test Emergency
	<b>/DD</b>	Digital Dimming (25W only)
	<b>/DD/M3</b>	Digital Dimming Emergency (25W only)
	<b>/MWS</b>	Integral Microwave Sensor
	<b>/MWS/M3</b>	Integral Microwave Sensor Emergency

## LED Information

<b>Total (Watts)</b>	11W/14W/25W
<b>Lumens Delivered</b>	
11W	1112lm
14W	1368lm
25W	2441lm
<b>Lm/W 11W</b>	101lm
<b>Lm/W 14W</b>	98lm
<b>Lm/W 25W</b>	98lm
<b>CRI</b>	Ra 80
<b>CCT</b>	4000K
<b>Input</b>	230V
<b>Hertz</b>	50/60Hz
<b>Operating Temp</b>	-10°C to 40°C



DD M3 MWS IP20



# Mercury LED

Supplied c/w Integral Driver

242

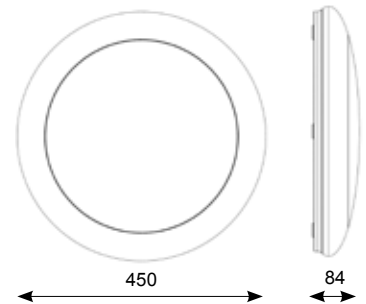


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Chrome Trim Ring Fitted

- IP44 polycarbonate wall/ ceiling light for corridors, stairwells and general amenity applications
- High output option allows for a range of installation applications
- LED performance significantly exceeds CFL equivalents
- BESA box fixing facility
- Integral laminated board heatsink provides high performance thermal management
- Digital dimming, integral emergency and microwave sensor options
- Chrome bezel accessory
- LED lifespan L70 56,000 hours



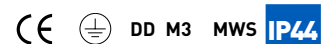
Code	Lamp	Description
<b>AMERLED</b>	LED	19W - Matt White
<b>AMERLED/HP</b>	LED	33W - Matt White

Options		
<b>/DD</b>	Digital Dimming	
<b>/DD/M3</b>	Digital Dimming Emergency	
<b>/M3</b>	Emergency	
<b>/MWS</b>	Integral Microwave Sensor	
<b>/MWS/M3</b>	Integral Microwave Sensor Emergency	

Accessories **AMERLEDBZ/CH** Chrome Trim Ring

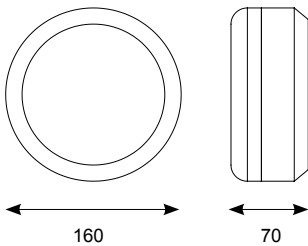
### LED Information

<b>Total (Watts)</b>	19W
	33W
<b>Lumens Delivered</b>	
19W	1397lm
33W	2702lm
Lm/W 19W	72lm
Lm/W 33W	82lm
<b>CRI</b>	<b>Ra 80</b>
<b>CCT</b>	<b>4000K</b>
<b>Input</b>	<b>220V-240V</b>
<b>Hertz</b>	<b>50/60Hz</b>
<b>Operating Temp</b>	<b>-10°C to 50°C</b>





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



**LED Information**

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



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



# Gamma LED

Supplied c/w Integral Driver



AGAMLED



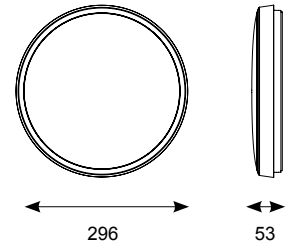
Chrome Trim Ring Fitted



53mm

Ultra slim profile

- Ultra slim modern polycarbonate wall/ceiling light
- Matt white finish to body and diffuser
- Rear fixing bracket and terminal housing for ease of installation
- Outperforms 38W CFL with opal diffuser by 25% and prismatic diffuser by 52%
- IP54 rating and suitable for bathroom use
- Microwave sensor set to 15 minutes (non-adjustable)
- /MWS and /MWS/M3 versions Masters as standard
- LED lifespan L70 50,000 hours
- Non-dimmable



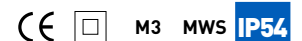
Code	Lamp	Description
<b>AGAMLED</b>	LED	18W - Cool White
<b>AGAMLED/WW</b>	LED	18W - Warm White

Options		
<b>/M3</b>	Emergency	
<b>/MWS</b>	Internal Microwave Sensor	
<b>/MWS/M3</b>	Integral Microwave Sensor and Emergency	

<b>Accessories</b>	<b>AGAMLEDBZ/CH</b>	Chrome Trim Ring
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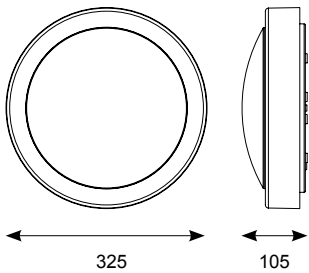
### LED Information

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





- 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
- Non-dimmable



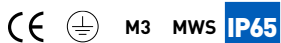
IP65



Chrome Trim Ring Fitted

**LED Information**

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



Code	Lamp	Description
<b>AJALED</b>	LED	14W - Cool White

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

<b>Accessories</b>	<b>AJALEDBZ/CH</b>	Chrome Trim Ring
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# Disco Slim LED

Supplied c/w Integral Driver

246



ADSILED1

IP65

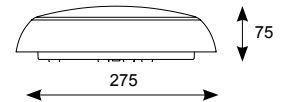


fitted with chrome trim ring

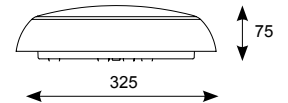


fitted with graphite trim ring

- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- 8W exceeds performance of 16W CFL
- 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
- Non-dimmable



ADSILED1



ADSILED2

Code	Lamp	Description
<b>ADSILED1</b>	LED	8W - Cool White
<b>ADSILED1/WW</b>	LED	8W - Warm White

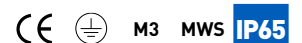
<b>ADSILED2</b>	LED	13W - Cool White
<b>ADSILED2/WW</b>	LED	13W - Warm White

Options		
/M3	Emergency (13W only)	
/MWS	Integral Microwave Sensor (13W only)	
/MWS/M3	Integral Microwave Sensor and Emergency (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 (14W)	
ADSILED/2BZ/GR	Graphite Trim Ring (14W)	

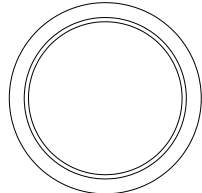
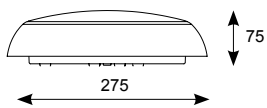
## LED Information

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

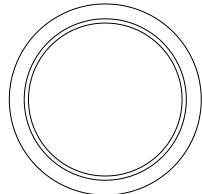
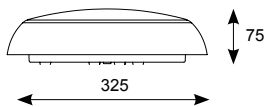




- Slim modern design with all polycarbonate construction with opal diffuser and white trim ring
- Unique design creates halo light spill effect
- 8W exceeds performance of 28W TC-DD
- 13W comparable performance to 40W TC-DD
- Two options of microwave sensor emergency
- /MWS/M3/CF provides CorridorFUNCTION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



ADSIHLED1



ADSIHLED2

Cool White Warm White

#### LED Information

Cool White Warm White

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

CE M3 MWS IP65

## Disco Slim Halo LED

Supplied c/w Integral Driver



247



ADSIHLED1

IP65



Halo light spill effect



fitted with chrome trim ring



fitted with graphite trim ring

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

<b>ADSIHLED2</b>	LED	13W - Cool White
<b>ADSIHLED2/WW</b>	LED	13W - Warm White

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

Accessories	Description
<b>ADSILED/1BZ/CH</b>	Chrome Trim Ring (8W)
<b>ADSILED/1BZ/GR</b>	Graphite Trim Ring (8W)
<b>ADSILED/2BZ/CH</b>	Chrome Trim Ring (14W)
<b>ADSILED/2BZ/GR</b>	Graphite Trim Ring (14W)

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



# Disco LED

Supplied c/w Integral Driver

248



ADILED1

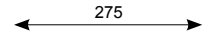
IP65



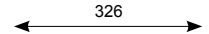
ADILED2

IP65

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



ADILED1



ADILED2

Code	Lamp	Description
<b>ADILED1</b>	LED	8W - Cool White
<b>ADILED2</b>	LED	14W - Cool White
<b>/M3</b>	Emergency (14W only)	
<b>/MWS</b>	Integral Microwave Sensor (14W only)	
<b>/MWS/M3</b>	Integral Microwave Sensor and Emergency (14W only)	
<b>/MWS/M3/CF</b>	Integral Microwave Sensor and Emergency CorridorFUNCTION (14W only)	

<b>ADI16BZ/BR</b>	Brass Trim Ring (8W)	
<b>ADI16BZ/CH</b>	Chrome Trim Ring (8W)	
<b>ADI16BZ/SG</b>	Silver Grey Trim Ring (8W)	

<b>ADI28BZ/BR</b>	Brass Trim Ring (14W)	
<b>ADI28BZ/CH</b>	Chrome Trim Ring (14W)	
<b>ADI28BZ/SG</b>	Silver Grey Trim Ring (14W)	

### LED Information

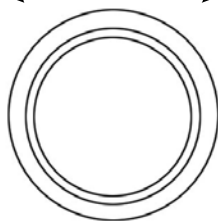
Total (Watts)	8W
	14W
Lumens Delivered	539lm
	860lm
Lm/W	67lm
	61lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 25°C

CE M3 MWS IP65

- All polycarbonate construction with opal diffuser and white trim ring
- Optional trim rings available in brass, chrome and silver grey finishes
- Suitable for bathrooms



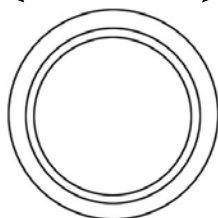
275



ADI16/HF



326



ADI28/HF



IP65



fitted with brass trim ring



fitted with chrome trim ring



fitted with silver grey trim ring

Code	Lamp	Description
<b>ADI16/HF</b>	TC-DD	16W
<b>ADI28/HF</b>	TC-DD	28W

#### Options

<b>/M3</b>	Emergency (28W only)
<b>/MWS</b>	Integral Microwave Sensor (28W only)

Accessories	Description
<b>ADI16BZ/BR</b>	Brass Trim Ring (16W)
<b>ADI16BZ/CH</b>	Chrome Trim Ring (16W)
<b>ADI16BZ/SG</b>	Silver Grey Trim Ring (16W)

<b>ADI28BZ/BR</b>	Brass Trim Ring (28W)
<b>ADI28BZ/CH</b>	Chrome Trim Ring (28W)
<b>ADI28BZ/SG</b>	Silver Grey Trim Ring (28W)

CE HF M3 MWS **IP65**

# Astro LED

Supplied c/w Integral Driver and Trim Accessory

250



AALED1/BV  
(Fitted with Trim Attachment)

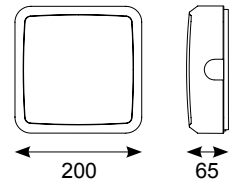


AALED1/WV

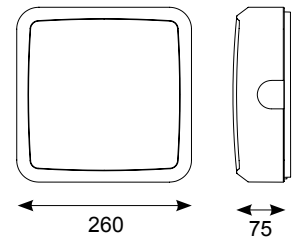


AALED2/WV  
(Fitted with Trim Attachment)

- All polycarbonate multi-purpose LED square bulkhead
- LED performance exceeds CFL equivalents
- Push fit feed-in, feed-out terminals for speed and ease of installation
- 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
- Non-dimmable



AALED1



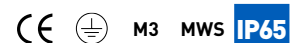
AALED2

### LED Information

Total (Watts)	7W
	14W
Lumens Delivered	
7W	628lm
14W	1220lm
Lm/W	89lm
	87lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 40°C

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

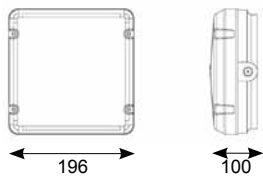
Options	/PC	Electronic Photocell
	/M3	Emergency (14W only)
	/MWS	Integral Microwave Sensor (14W standard model only)



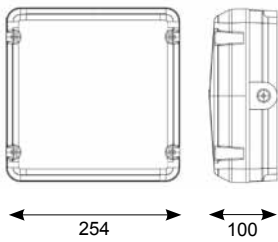
- Multi-purpose range of square bulkhead fittings for both internal and external installations
- All polycarbonate construction with hinged gear tray
- Body options of black or white base with diffuser options of clear prismatic or opal



AA16/BP/HF



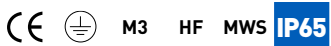
AA16



AA28



AA28/WP/HF



Code	Lamp	Description
<b>AA16/BP/HF</b>	TC-DD	16W - Black Base / Prismatic Cover
<b>AA16/WP/HF</b>	TC-DD	16W - White Base / Prismatic Cover
<b>AA28/BP/HF</b>	TC-DD	28W - Black Base / Prismatic Cover
<b>AA28/WP/HF</b>	TC-DD	28W - White Base / Prismatic Cover
<b>Options</b>	<b>/PC</b>	Photocell
	<b>/M3</b>	Emergency (28W only)
	<b>/MWS</b>	Integral Microwave Sensor (28W only)

# Delta LED

Supplied c/w Integral Driver and Trim Accessory

252



ADLED1/BV  
(Fitted with Trim Attachment)

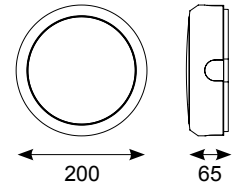


ADLED1/BV

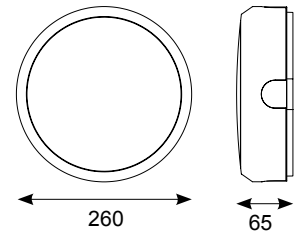


ADLED2/WV  
(Fitted with Trim Attachment)

- 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
- Non-dimmable



AALED1



AALED2

### LED Information

Total (Watts)	6W
	14W
Lumens Delivered	
6W	661lm
14W	1208lm
Lm/W	110lm
	86lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 25°C

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

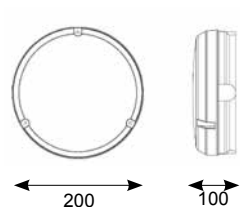
Options	/PC	Electronic Photocell
	/M3	Emergency (14W only)
	/MWS	Integral Microwave Sensor (14W standard model only)



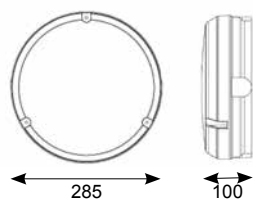
- Multi-purpose range of circular bulkhead fittings for both internal and external installations
- All polycarbonate construction
- Body options of black or white base with diffuser options of clear prismatic or opal



AD16/WP/HF



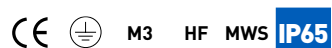
AD16



AD28



AD28/BP/HF



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

<b>Options</b>	<b>/PC</b>	Photocell
	<b>/M3</b>	Emergency (28W only)
	<b>/MWS</b>	Integral Microwave Sensor (28W only)





**Project - Newbridge School**  
Oldham, UK



# Vision 3 LED

Supplied c/w Integral Driver and 3 Trim Designs

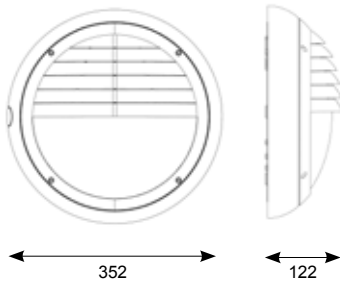


- IP65 polycarbonate 3-In-1 LED luminaire for external applications
- Each fitting supplied with plain, louvred eyelid and plain eyelid covers
- Exceeds performance of CFL equivalents
- Four conduit entry points
- Integral die-cast aluminium heatsink provides thermally managed high performance
- 20W LED lifespan L70 56,000 hours
- 31W LED lifespan L70 36,000 hours
- Non-dimmable



Removable conduit entry cap for ease of installation

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Fitted with Solid Eyelid



Fitted with Louvred Eyelid

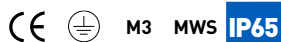
### LED Information

Total (Watts)	20W 31W
Lumens Delivered	
20W	1228lm
32W	2426lm
Lm/W 20W	61lm*
Lm/W 32W	78lm*
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C

\* Please note that Lm/W rating reduces for eyelid versions

Code	Lamp	Description
<b>AVILED/GR</b>	LED	20W - Graphite
<b>AVILED/SG</b>	LED	20W - Silver Grey
<b>AVILED/W</b>	LED	20W - White
<b>AVILED/HP/GR</b>	LED	31W - Graphite
<b>AVILED/HP/SG</b>	LED	31W - Silver Grey
<b>AVILED/HP/W</b>	LED	31W - White

Options	/M3	Emergency
	/MWS	Integral Microwave Sensor
	/MWS/M3	Integral Microwave Sensor Emergency

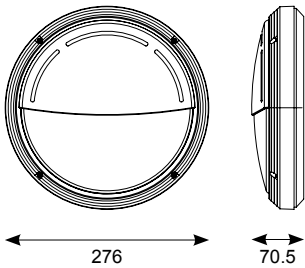




**Project - Private Residential**  
County Wicklow, Ireland



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



ATOPLED/B



ATOPLED/W

**LED Information**

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



Code	Lamp	Description
<b>ATOPLED/B</b>	LED	8W - Cool White - Black
<b>ATOPLED/W</b>	LED	8W - Cool White - White





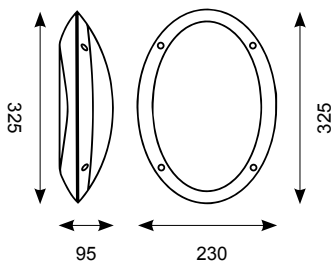
**Project - Stonecross Industrial Park**  
Warrington, UK

# Ancona Oval LED

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



- All polycarbonate oval bulkhead suitable for wall and ceiling applications
- Supplied with both plain and eyelid diffusers
- Comparable performance to 2x18W PLC
- Body options of black or white
- LED lifespan L70 56,000 hours
- Non-dimmable



AANCLED/B



Fitted with Plain Cover



AANCLED/W



Fitted with Eyelid Cover

### LED Information

Total (Watts)	11W
Lumens Delivered	862lm
Lm/W	78lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 45°C



Code	Lamp	Description
<b>AANCLED/B</b>	LED	11W - Cool White - Black
<b>AANCLED/W</b>	LED	11W - Cool White - White



# Pesaro Circular LED

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

260



APESLED/B



Fitted with Plain Cover

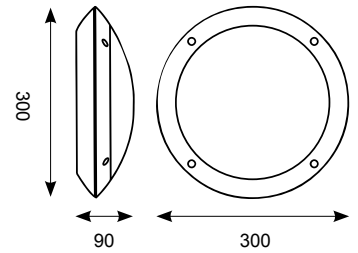


APESLEDW



Fitted with Eyelid Cover

- All polycarbonate circular bulkhead suitable for wall and ceiling applications
- Supplied with both plain and eyelid diffusers
- Exceeds performance of 2x18W PLC
- Body options of black or white
- LED lifespan L70 56,000 hours
- Non-dimmable



## LED Information

Total (Watts)	11W
Lumens Delivered	931lm
Lm/W	85lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 45°C

Code	Lamp	Description
APESLED/B	LED	11W - Cool White - Black
APESLED/W	LED	11W - Cool White - White



# 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



ASR2LED/W  
(Plain Cover)



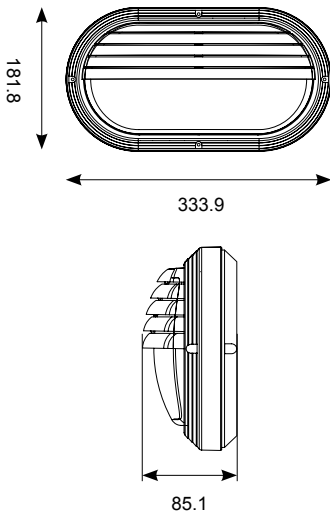
ASR2LED/B  
(Plain Cover)



ASR2LED/B  
(Louvred Eyelid Cover)



ASR2LED/W  
(Louvred Eyelid Cover)



### LED Information

Total (Watts)	7W
Lumens Delivered	794lm
Lm/W	99lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 25°C



Code	Lamp	Description
ASR2LED/B	LED	7W - Cool White - Black
ASR2LED/W	LED	7W - Cool White - White



# E27 Sorrento

Supplied Less Lamp

262



ASCO75/B



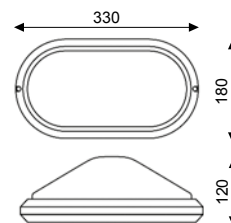
ASCO75/W



ASCOEYE/B

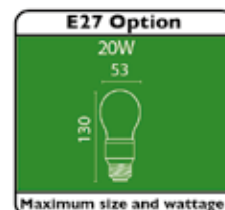
ASCOEYE/W

- Injection moulded thermoplastic bulkhead with opal polycarbonate diffuser
- Optional eyelid cover accessory replaces plain frame



Code	Lamp	Description
ASCO75/B	E27	60W - Black
ASCO75/W	E27	60W - White

<b>Accessories</b>	ASCOEYE/B	Eyelid Cover - Black
	ASCOEYE/W	Eyelid Cover - White



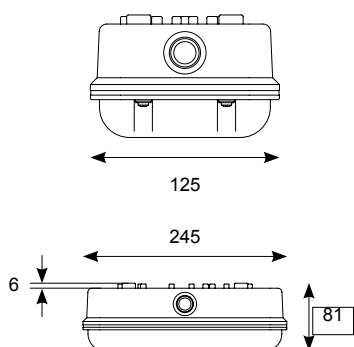


# Sleek LED Polycarbonate Bulkhead

Supplied c/w Integral Driver



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



## LED Information

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



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



# E27 Polycarbonate Bulkhead

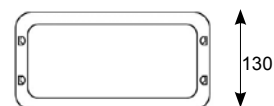
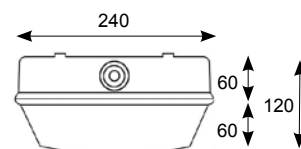
Supplied Less Lamp

264



A100POLY

- Vandal resistant all polycarbonate construction



E27 Options		
100W	23W 53	20W 53
Maximum size and wattage		

Code	Lamp	Description
A100POLY	E27	100W - Black Base



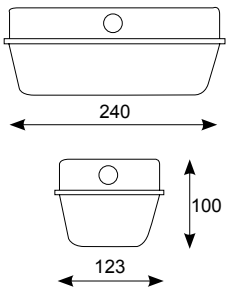
# E27 Aluminium Bulkhead

Supplied Less Lamp



265

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



A100PC



A100GC



A100PR

E27 Options		
100W	23W	20W
	53	53
	130	130
Maximum size and wattage		



Code	Lamp	Description
<b>A100PC</b>	E27	100W - Polycarbonate Lens
<b>A100GC</b>	E27	100W - Glass Lens
<b>A100PR</b>	E27	100W - Red Polycarbonate Lens

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



# Pavo LED Panel Mount Submersible

Supplied Less Driver

266

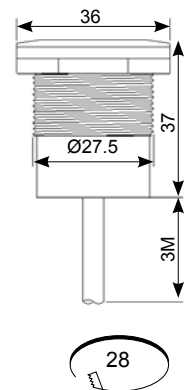


APLED/CW



APLED/WW

- Small recessed LED marker light for a variety of panel mounted internal and external applications
- Suitable for panels, water features, spa baths and pools
- 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 50,000 hours



## LED Information

Total (Watts)	1W
Lumens Delivered	
Cool White	35lm
Warm White	35lm
Lm/W Cool White	35lm
Lm/W Warm White	35lm
CRI Cool White	Ra 75
CRI Warm White	Ra 80
CCT Cool White	6000K
CCT Warm White	3000K
Input	12V/24V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

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

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

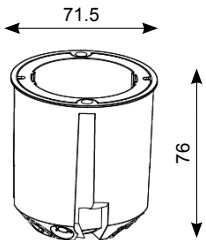
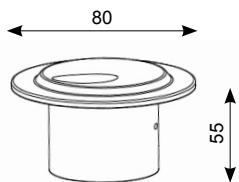




- Recessed low level wall light with integral driver for external and internal applications
- Ideal for stairways, corridors and plinths
- Die-cast aluminium construction with white or silver grey powder coated finish
- Pre-wired with 0.5 metre of rubber insulated cable
- LED lifespan L70 40,000 hours



Supplied with wall box for installation into solid walls



Wall box dimensions



### LED Information

Total (Watts)	4W
Lumens Delivered	30lm
Lm/W	7lm
CRI	Ra 50
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C



AEWLED/SG



AEWLED/W

Code	Lamp	Description
<b>AEWLED/W</b>	LED	4W Cool White - White
<b>AEWLED/SG</b>	LED	4W Cool White - Silver Grey



# LED Square

Supplied c/w Integral Driver

268



AWL/4LED/WHI

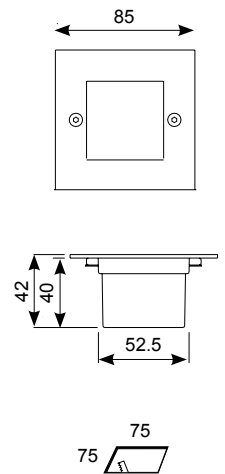


AWL/4LED/WP



AWL/4LED/PP

- Recessed wall light with aluminium body and stainless steel front plate
- Installs directly into a 47mm deep galvanised or "fast-a-fix" recessed box
- LED lifespan L70 40,000 hours
- Non-dimmable



## LED Information

Total (Watts)	2.6W
Lumens Delivered	29lm
Lm/W	11lm
CRI Cool White	Ra 70
CCT	5500K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 55°C

Code	Lamp	Description
AWL/4LED/WHI	LED	2.6W - Cool White

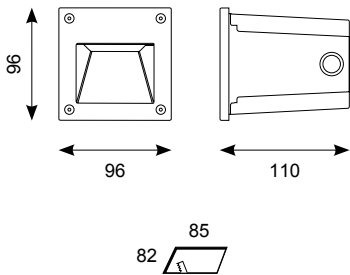
**Accessories AWL/4LED/WP** Window Style Front Plate for AWL/4LED

**AWL/4LED/PP** Plain Framed Front Plate for AWL/4LED





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



**LED Information**

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



Code	Lamp	Description
ACSQLEDWL	LED	3W - Cool White

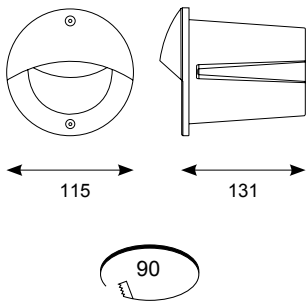








- Compact low level circular LED pathway light with downward light spill
- Die-cast aluminium construction with graphite paint finish
- Supplied c/w plastic installation box and pre-wired with 1 metre of rubber insulated cable for ease of installation
- LED lifespan L70 50,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	4W
Lumens Delivered	178lm
Lm/W	45lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



Code	Lamp	Description
APCLEDWL	LED	4W - Cool White





**Project - Private Residential**  
Liverpool, UK

# Libretto LED Bricklight

Supplied c/w Integral Driver



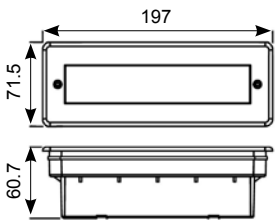
- Stainless steel front cover with clear polycarbonate front lens and recessed housing
- Integral driver with loop-in, loop-out connections
- LED lifespan L70 40,000 hours
- Non-dimmable



ALIBLED/BLU



ALIBLED/WHI



### LED Information

Total (Watts)	2W
Lumens Delivered	
Cool White	126lm
Blue	48lm
Lm/W White	60lm
Lm/W Blue	24lm
CRI Cool White	Ra 65
CCT	6000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 25°C



Code	Lamp	Description
ALIBLED/WHI	LED	2W - Cool White
ALIBLED/BLU	LED	2W - Blue



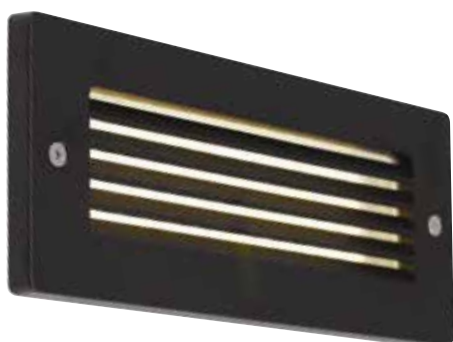
# Fidenza LED Bricklight

Supplied c/w Integral Driver

274



AFBLLED

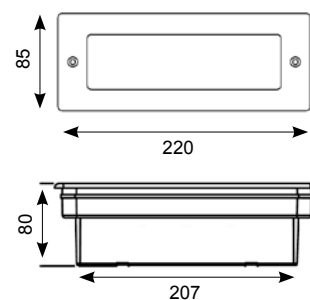


AFBL/GRILL Cover Fitted



AFBL/EYE Cover Fitted

- Die-cast aluminium housing and front cover
- Toughened front frosted glass
- Metal back box with cable entries for ease of installation
- Optional grill and hood front covers
- LED lifespan L70 50,000 hours
- Non-dimmable



## LED Information

Total (Watts)	2.2W
Lumens Delivered	145lm
Lm/W	66lm
CRI	Ra 65
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description
AFBLLED	LED	2.2W - Cool White

<b>Accessories AFBL/GRILL</b>	Front Grill Cover
<b>AFBL/EYE</b>	Front Eyelid Cover





**Project - Private Residential**  
Warrington, UK

# LED Inox Stainless Steel Bricklight

Supplied c/w Integral Driver

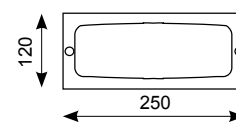


276

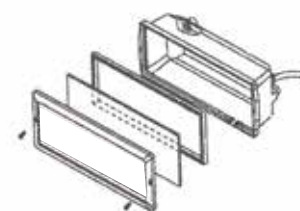
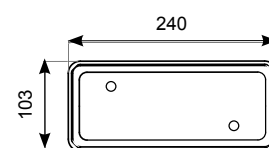
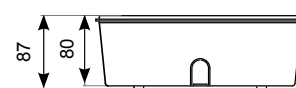


Stainless Steel **AISI 316L**

- Die-cast aluminium bricklight with AISI316L stainless steel front cover
- Comparable performance to 18W PLC
- Tempered and frosted 4mm glass diffuser
- Supplied c/w polyethelyne back box for recessing
- LED lifespan L70 50,000 hours
- Non-dimmable



Box Dimensions



## LED Information

Total (Watts)	12W
Lumens Delivered	270lm
Lm/W	23lm
CRI	Ra 70
CCT	3000K
Input	230V
Hertz	50Hz
Operating Temp	-25°C to 35°C

Code	Lamp	Description
<b>ABLFLED/SS</b>	LED	12W - Warm White

**ASSCK** Stainless Steel Cleaning Kit (see page 428)



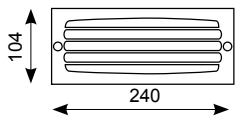
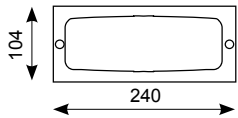


# Inox Stainless Steel Bricklight

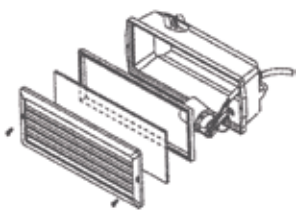
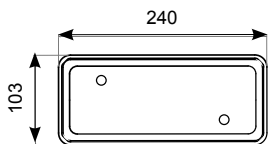
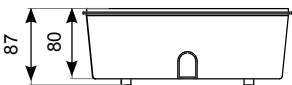
Supplied Less Lamp



- AISI 316L grade stainless steel recessed brick light / wall light
- Frosted Glass diffuser
- Supplied with back box for recessing



### Box Dimensions



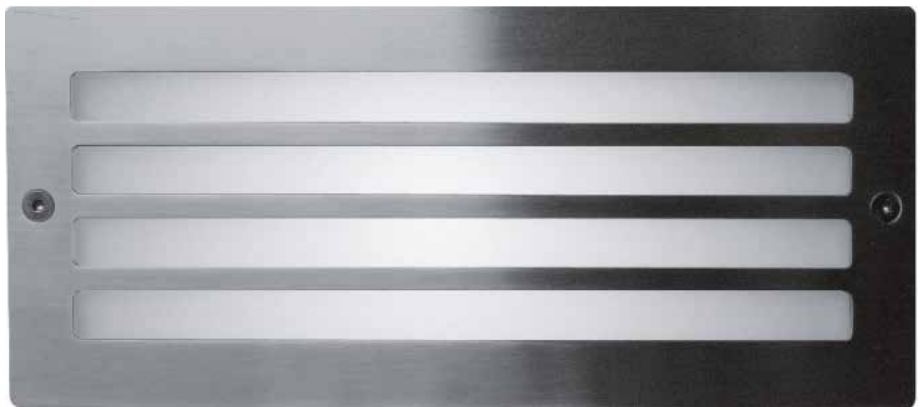
**E27 Options**

40W	23W
	53
	165

Maximum size and wattage



ABLF40/SS



ABLG40/SS



Code	Lamp	Description
ABLF40/SS	E27	40W Plain Frame
ABLG40/SS	E27	40W Grill
ASSCK		Stainless Steel Cleaning Kit (see page 428)



# Roma

Supplied Less Lamp



278



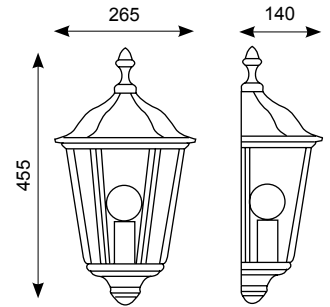
Transparent Lens  
for E27 versions  
(excluding  
PIR versions)



Opal Lens  
for PIR versions

ARE27/HL/BL

- Die-cast aluminium half-lantern in black
- Clear polycarbonate diffuser for E27 versions
- Opal polycarbonate diffuser for PIR versions



1 to 8 metres  
5 seconds to 15 minutes  
2 to 2000 LUX

E27 Options		
100W	23W 53	20W 53
165	53	165
Maximum size and wattage		

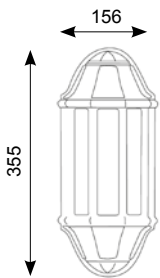
Code	Lamp	Description
ARE27/HL/BL	E27	100W - Black
ARE27/PIR/HL/BL	E27	100W - PIR - Black







- Die-cast aluminium housing and frame with smoked polycarbonate diffuser



E27 Options		
60W	23W	20W
	53	53
130	130	
Maximum size and wattage		



Code	Lamp	Description
<b>ASOE27</b>	E27	60W



# Latina Polycarbonate Half Lantern

Supplied Less Lamp

280

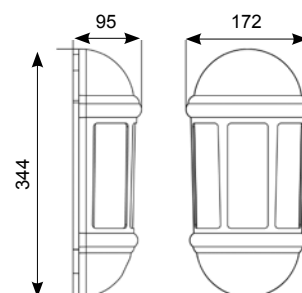


ALHL/BL



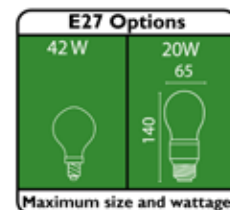
ALHL/PIR/WH

- 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



4 to 8 metres  
5 seconds to 5 minutes  
30 LUX

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



# Latina Polycarbonate Wall Lantern

Supplied Less Lamp



281

- 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/WH



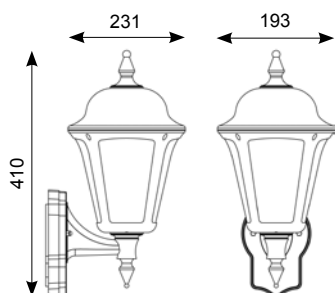
ALWL/PIR/BL



ALWL/CBB



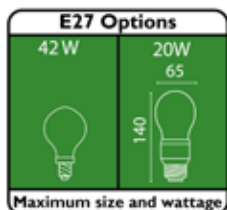
ALWL/CBW



**PIR**



4 to 8 metres  
5 seconds to 5 minutes  
30 LUX



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

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



# Lampara Inox Stainless Steel

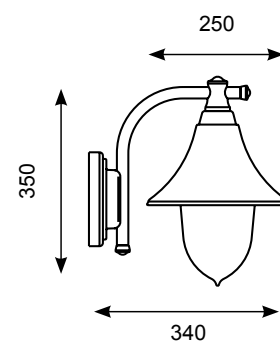
Supplied Less Lamp



282



- Body manufactured from AISI 316L grade stainless steel
- Transparent polycarbonate diffuser

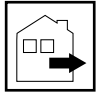


E27 Options		
100W	23W 53	20W 53
	130	130
Maximum size and wattage		

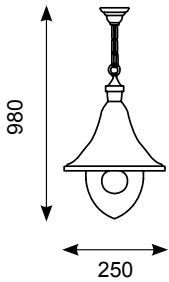
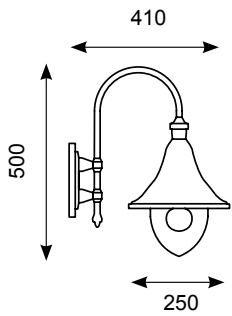
Code	Lamp	Description
ALE27/WL/SS	E27	100W

<b>Accessories</b> ASSCK	Stainless Steel Cleaning Kit (see page 428)
--------------------------	---








- Die-cast aluminium construction with transparent polycarbonate diffuser
- Black or Black Copper paint finishes



ALE27/WL/BL



ALE27/HL/BCO

E27 Options		
100W	23W 53	20W 53
		
165	165	165
Maximum size and wattage		



	Code	Lamp	Description
Wall Lantern	ALE27/WL/BL	E27	100W - Black
	ALE27/WL/BCO	E27	100W - Black Copper
Hanging Lantern	ALE27/HAL/BL	E27	100W - Black
	ALE27/HAL/BCO	E27	100W - Black Copper

# Augusta

Supplied Less Lamp

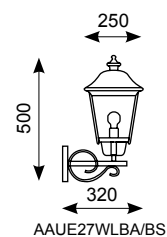


284



AAUE27WLBA/BS

- Classic die-cast aluminium lantern with transparent polycarbonate diffuser
- Aged black silver with copper top



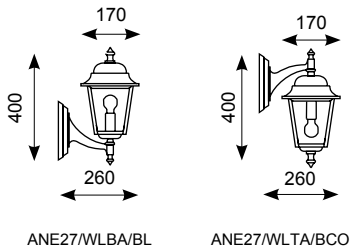
E27 Options		
100W	23W 53	20W 53
	165	165
Maximum size and wattage		

Code	Lamp	Description
AAUE27WLBA/BS	E27	100W Bottom Arm - Black Silver/Copper



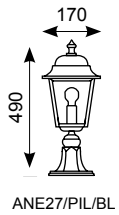


- Die-cast aluminium four sided lantern
- Black and Black Copper finishes
- Smoked glass diffuser
- Full size post lanterns incorporate hinged door for easy wiring access

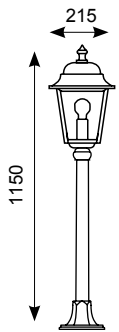


ANE27/WLBA/BL

ANE27/WLTA/BCO



ANE27/PIL/BL



ANE27/MPTL/BCO

E27 Options		
60W to 100W	23W 53	20W 53
130	130	130
Maximum size and wattage		



ANE27/MPTL/BCO



ANE27/WLBA/BL



ANE27/WLTA/BCO



ANE27/PIL/BL

	Code	Lamp	Description
<b>Wall Lantern</b>	ANE27/WLTA/BL	E27	60W Top Arm - Black
	ANE27/WLTA/BCO	E27	60W Top Arm - Black Copper
	ANE27/WLBA/BL	E27	60W Bottom Arm - Black
	ANE27/WLBA/BCO	E27	60W Bottom Arm - Black Copper
<b>Pillar Lantern</b>	ANE27/PIL/BL	E27	60W - Black
	ANE27/PIL/BCO	E27	60W - Black Copper
<b>Mini Post Lantern</b>	ANE27/MPTL/BL	E27	100W - Black
	ANE27/MPTL/BCO	E27	100W - Black Copper
<b>Accessories</b>	ALCB	Corner Bracket For Wall Lanterns	



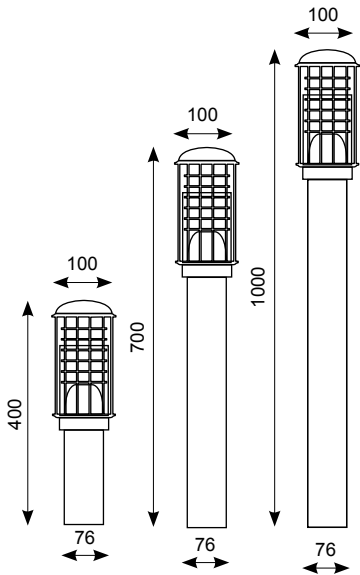


**Project - Private Residential**  
Bangor, Ireland





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



AUE27040/SS






AUE27070/SS



AUE27100/SS



E27 Options		
60W	23W 53	20W 53
		
Maximum size and wattage		



Code	Lamp	Description
AUE27040/SS	E27	60W 400mm
AUE27070/SS	E27	60W 700mm
AUE27100/SS	E27	60W 1000mm

ASSCK	Stainless Steel Cleaning Kit (see page 428)
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# Urano Inox Country

Supplied Less Lamp



288



AUE27040/WE

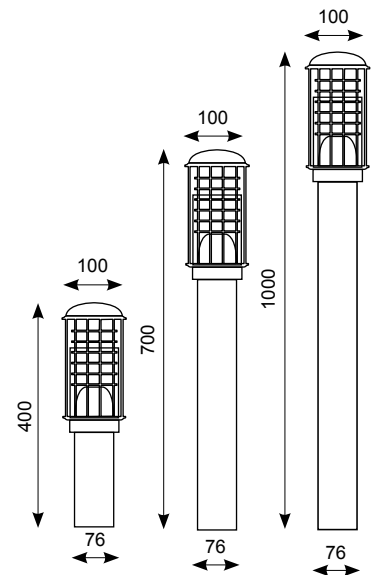


AUE27070/WE



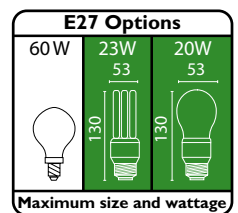
AUE27100/WE

- Stunning combination of country wood effect with stainless steel head
- Slim profile provides additional suitability for patio lighting
- Decorative AISI 316L stainless steel head
- Suitable for commercial and domestic applications



Code	Lamp	Description
AUE27040/WE	E27	60W 400mm
AUE27070/WE	E27	60W 700mm
AUE27100/WE	E27	60W 1000mm

**Accessories ASSCK** Stainless Steel Cleaning Kit (see page 428)





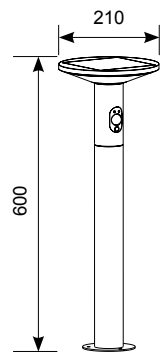
**Project - Private Residential**  
County Antrim, Ireland

# Talana Solar LED

Supplied c/w Integral Driver



- Ultra modern die-cast solar powered aluminium LED bollard
- PIR motion sensor as standard
- 2 operation modes:-
  - 1) 11% output after sunset, motion detected 100% output, no motion 11% for 20 hours
  - 2) Motion detected 100% output, no motion off
- Graphite textured powder coat paint finish
- LED lifespan L70 36,000 hours



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

**LED Information**

Lumens Delivered	210lm
CRI	Ra 80
CCT	4000K
Operating Temp	-25°C to 55°C





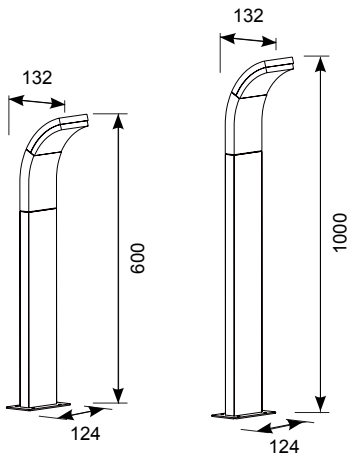
**Project - Private Residential**  
Belfast, UK



**Project - Private Residential**  
Chester, UK



- 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 40,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	7W
Lumens Delivered	366lm
Lm/W	52lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



ASELEDB/060/PIR

ASELEDB/100

	Code	Lamp	Description
<b>Standard</b>	<b>ASELEDB/060</b>	LED	7W - Cool White 600mm
	<b>ASELEDB/100</b>	LED	7W - Cool White 1000mm
<b>PIR</b>	<b>ASELEDB/060/PIR</b>	LED	7W - PIR - Cool White 600mm
	<b>ASELEDB/100/PIR</b>	LED	7W - PIR - Cool White 1000mm



# Arco LED

Supplied c/w Integral Driver

294



Light distribution from head of bollard

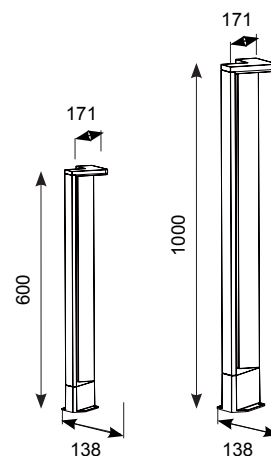


AARLEDB/060



AARLEDB/100

- Ultra modern LED bollard
- Graphite textured powder coated paint finish
- Flange mounted base for surface mounting
- LED lifespan L70 40,000 hours
- Non-dimmable



### LED Information

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

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







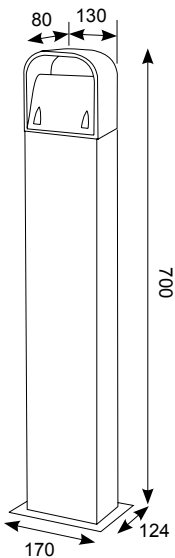
***Project - Private Residential***  
*York, UK*



**Project - Private Residential**  
Surrey, UK



- Modern bollard with die-cast aluminium body
- Innovative bi-directional light distribution
- Equivalent performance to 26W PLC
- Powder coated anodized graphite paint finish for enhanced durability
- Flange mounted base for surface fixing
- IP66 loop-in, loop-out connection joint for ease of installation
- LED lifespan L70 60,000 hours
- Non-dimmable



**LED Information**

Total (Watts)	11W
Lumens Delivered	202lm
Lm/W	18lm
CRI	Ra 93
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



Code	Lamp	Description
<b>AGLEDB/700</b>	LED	11W - Cool White



# Duet LED

Supplied c/w Integral Driver

298



Light distribution from the rear of the bollard



Light distribution from the front of the bollard

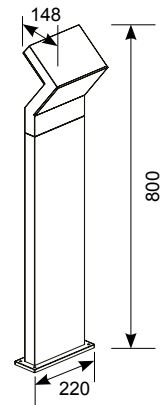


ADULEDB/080



ADULEDB/080/PIR

- 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 10 metres  
5 seconds to 8 minutes  
10 to 1000 LUX

### LED Information

Total (Watts)	17W
Lumens Delivered	1536lm
Lm/W	90lm
CRI	Ra 80
CCT	4000K
Input	100V-240V
Hertz	50/60Hz
Operating Temp	-25°C to 45°C

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





**Project - Private Residential**  
Bath, UK



**Project - Private Residential**  
Bristol, UK

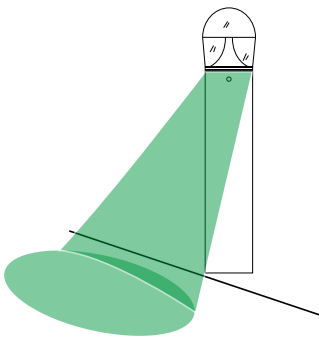
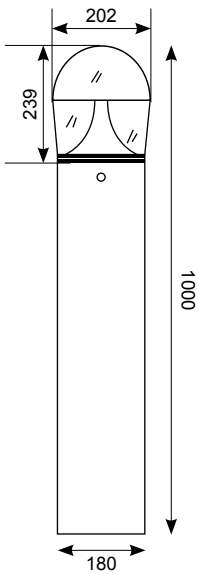
# Taurus LED

Supplied c/w Integral Driver



301

- Robust die-cast aluminium bollard with a textured graphite finish
- Die-cast aluminium head with polycarbonate lens
- Comparable performance to 70W HQI
- Integral emergency option
- Supplied c/w root mounting kit
- LED lifespan L70 57,000 hours
- Non-dimmable



Emergency Operation



### LED Information

Total (Watts)	26W
Lumens Delivered	1379lm
Lm/W	53lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 50°C



Code	Lamp	Description
<b>ATALEDB/1000</b>	LED	26W - Cool White
<b>Option</b>	<b>/M3</b>	<b>Emergency</b>

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



# Neway LED

c/w Integral Driver

302

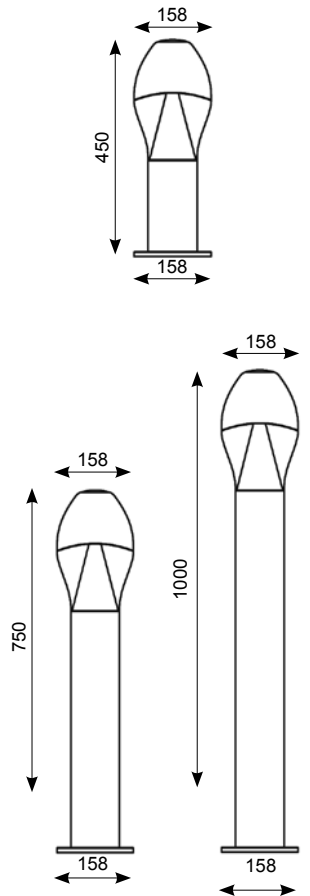


ANLED/045/SI

ANLED/075/GR

ANLED/100/SI

- Modern styled bollard with body in die-cast and extruded aluminium
- White reflector with clear polycarbonate diffuser
- LED lifespan L70 50,000 hours
- Non-dimmable



Code	Lamp	Description
ANLED/045/GR	LED	10W Cool White 450mm - Graphite
ANLED/045/SI	LED	10W Cool White 450mm - Silver
ANLED/075/GR	LED	10W Cool White 750mm - Graphite
ANLED/075/SI	LED	10W Cool White 750mm - Silver
ANLED/100/GR	LED	10W Cool White 1000mm - Graphite
ANLED/100/SI	LED	10W Cool White 1000mm - Silver

Accessories **ARMK2** Root Mounting Kit

### LED Information

Total (Watts)	10W
Lumens Delivered	838lm
Lm/W	84lm
CRI	Ra 65
CCT	5000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 35°C







**Project - Private Residential**  
Hale Barns, UK

# Monza

Supplied Less Lamp



304



AME27045/BL

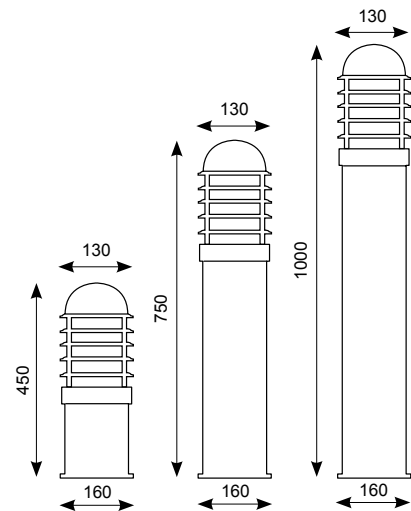


AME27075/BL



AME27100/BL

- Die-cast extruded aluminium bollard with external louvred head
- Textured black powder coat finish
- Suitable for commercial and domestic applications



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

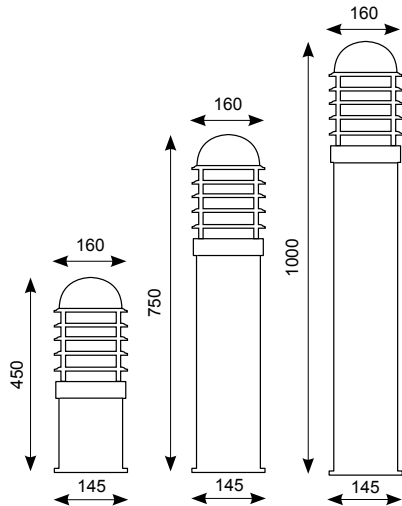
**Accessories** ARMK3 Root Mounting Kit

E27 Options		
100 W	23W 53	20W 53
165	165	165
Maximum size and wattage		





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



AME27045/SS

AME27075/SS

AME27100/SS



E27 Options		
75W	23W	20W
165	53	53
165	53	53

Maximum size and wattage

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

<b>Accessories ASSCK</b>	Stainless Steel Cleaning Kit (see page 428)
<b>ARMK3</b>	Root Mounting Kit



# Aquila

Supplied Less Lamp



306



AAE27045/BL

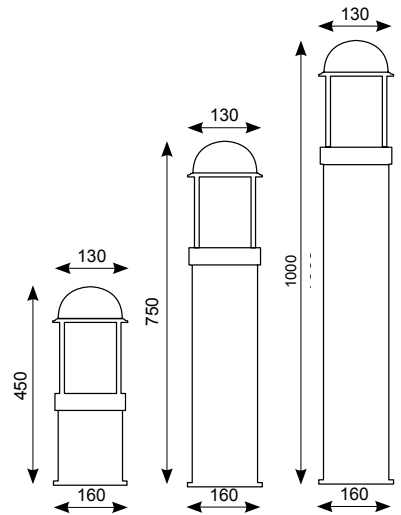


AAE27075/BL



AAE27100/BL

- Die-cast aluminium bollard with four pillars and opal polycarbonate diffuser
- 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

**Accessories** ARMK3 Root Mounting Kit

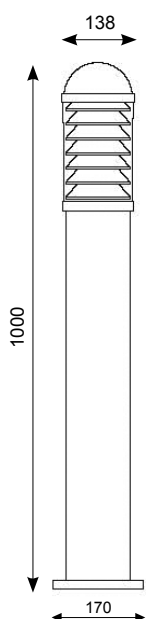
E27 Options		
100W	23W	20W
	53	53
165	165	165

Maximum size and wattage





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



E27 Options		
100 W	23W	20W
	53	53
	130	130
Maximum size and wattage		



Code	Lamp	Description
ALIB/100E27	E27	100W





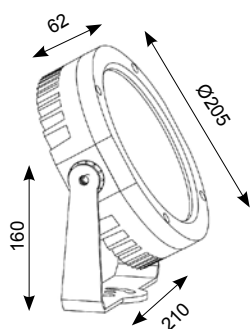
**Project - Eddie Rocket's Restaurant**  
Tullamore, Ireland

# Vulcan LED RGB Projector

Supplied Less Driver



- High output projector for the illumination of large surface areas
- Suitable for internal and external applications
- Pre-wired with 2 metres of rubber insulated cable
- *Please note that this product requires controller and driver detailed on this page.*
- *Each DMX controller will operate a maximum of 3 Vulcan projectors*



ARGBC/24V  
See Page 332



### LED Information

Total (Watts)	36W
Total (Amps)	1.5A
Lumens Delivered	
Red	383lm
Green	691lm
Blue	168lm
Input	24V
Operating Temp	-20°C to 40°C



Code	Lamp	Description
AVPLED/RGB	LED	36W - RGB
<b>Accessories</b> ARGBC/24V		LED RGB 24V DMX Controller
ARGBC/R/24V		LED RGB 24V DMX Repeater
ADK120W/24V		120W 24V LED Driver







# 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 40,000 hours
- Non-dimmable



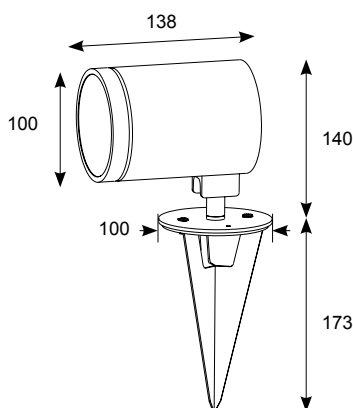
Wall Mounting



Spike Mounting



Surface Mounting



### LED Information

Total (Watts)	20W
Lumens Delivered	1200lm
Lm/W	60lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 45°C



Code	Lamp	Description
<b>AROLEDSSS</b>	LED	20W - Cool White



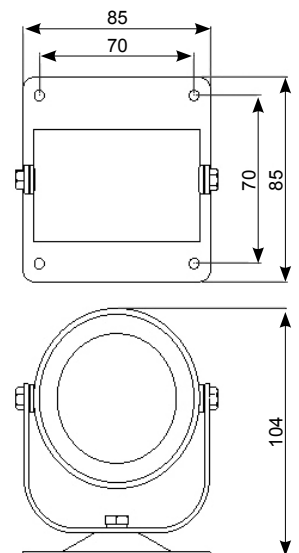
# Meteor LED Submersible

Supplied Less Driver

312



- 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



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

## LED Information

Total (Watts)	6W
Lumens Delivered	547lm
Lm/W	91lm
CRI	Ra 75
CCT	4000K
Input	350mA
Operating Temp	-20°C to 40°C





**Project - Southport Flower Show**  
Southport, UK

# Lyras 67 AC LED

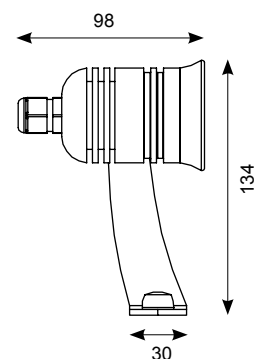
No Driver Required



314



- Powerful compact mini-projector with single stirrup arm
- Die-cast aluminium body with anodised bronze finish
- Exceeds performance of 50W halogen
- 5mm tempered transparent glass
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 40,000 hours
- Non-dimmable



### LED Information

Total (Watts)	5W
Lumens Delivered	310lm
Lm/W	62lm
CRI	Ra 70
CCT	3000K
Input	230V
Hertz	50/60Hz
Operating Temp	-25°C to 35°C

Code	Lamp	Description
ALY67LED	LED	5W - Warm White

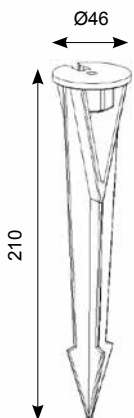
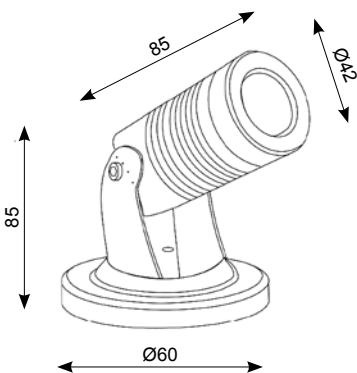


# Mirage LED

Supplied c/w Wall Bracket, Spike and Integral Driver



- Compact garden light with integral driver
- Suitable for spike fixing or wall mounting (spike attachment supplied)
- Aluminium housing with matt black powder coat finish
- Pre-wired with 2 metres of rubber insulated cable
- LED lifespan L70 60,000 hours
- Non-dimmable



### LED Information

Total (Watts)	3.4W
Lumens Delivered	81lm
Lm/W	24lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Floor Mounting



Wall Mounting



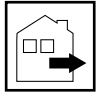
Spike Fixing

Code	Lamp	Description
AMWSLED	LED	3.4W - Cool White

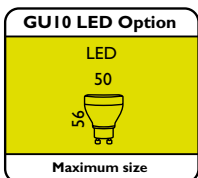
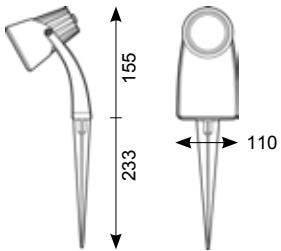




**Project - Southport Flower Show**  
Southport, UK



- 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



Spike Fixing

Wall Mounting

Code	Lamp	Description
AFGS/GU10LED	LED	5W LED GU10



# Duo

Supplied Less Lamp

318

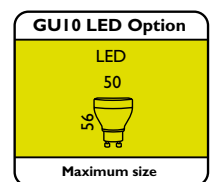
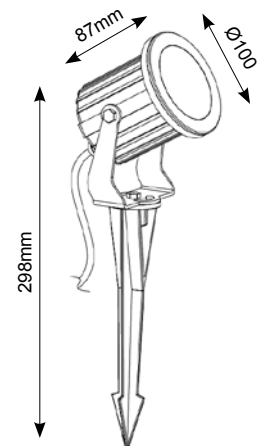


Floor or Wall Mounting



Spike Fixing

- Dual purpose garden spotlight supplied with wall mounting bracket and spike
- 316L stainless steel bezel with powder coated die-cast aluminium body
- Pre-wired with 2 metres of rubber insulated cable



Code	Lamp	Description
AD50WS/GU10	GU10	50W



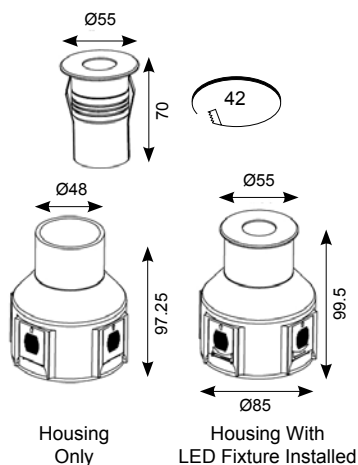


# Rebel LED Inground Uplight

Supplied c/w Integral Driver



- 316L stainless steel bezel and powder coated aluminium housing
- Integral driver and pre-wired with 1 metre of rubber insulated cable
- Static load test to 2000kg (when housing installed) and therefore suitable for vehicular and pedestrian traffic
- Spring fixings allow installation into both walls and decking applications
- LED lifespan L70 60,000 hours
- Non-dimmable



ARWOLED



ARWOLED Installed into housing



ARWOLED/BLU

## LED Information

Total (Watts)	3W
Lumens Delivered	
Cool White	81lm
Blue	19lm
Lm/W Cool White	27lm
Lm/W Blue	6lm
CRI	Ra 70
CCT Cool White	4000K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
ARWOLED	LED	3W - Cool White
ARWOLED/BLU	LED	3W - Blue



# Subra LED Inground Uplight

Supplied Less Driver

320

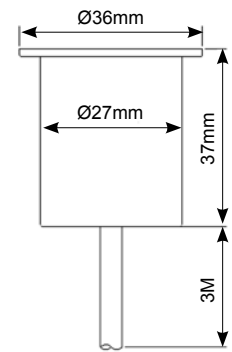


ASUWOLED/CW



ASUWOLED/WW

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



## LED Information

Total (Watts)	1W
Lumens Delivered	
Cool White	35lm
Warm White	35lm
Lm/W Cool White	35lm
Lm/W Warm White	35lm
CRI Cool White	Ra 75
CRI Warm White	Ra 80
CCT Cool White	6000K
CCT Warm White	3000K
Input	12V/24V
Operating Temp	-20°C to 40°C

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

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





**Project - Private Residential**  
Liverpool, UK

# LED Decking Uplight

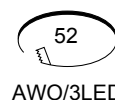
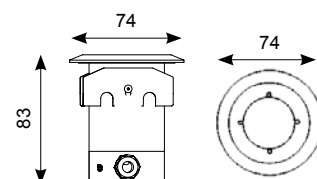
Supplied c/w Integral Driver

322

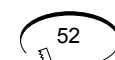
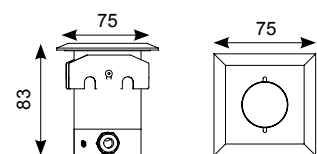


AWOSQ/3LED/WHI

- Housing in die-cast aluminium with a 316 stainless steel trim and tamperproof cover
- Integral driver
- 6mm safety glass
- Pre-wired with 1metre of flex
- Suitable for pedestrian traffic only
- LED lifespan L70 40,000 hours
- Non-dimmable



AWO/3LED



AWOSQ/3LED

## LED Information

Total (Watts)	2W
Lumens Delivered	7lm
Lm/W	3lm
CRI Cool White Circular	Ra 70
CRI Cool White Square	Ra 65
CCT	5500K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

	Code	Lamp	Description
<b>Circular</b>	<b>AWO/3LED/WHI</b>	LED	2W - Cool White
<b>Square</b>	<b>AWOSQ/3LED/WHI</b>	LED	2W - Cool White



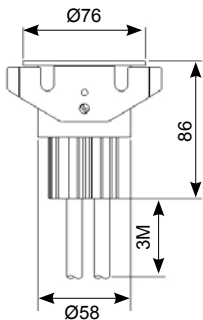
# Gemini LED RGB Inground Uplight

Supplied Less Driver

- Powerful RGB inground uplight for internal and external applications
- 316L stainless steel bezel and housing
- Pre-wired with 2 metres of rubber insulated cable
- Fixing clips allow installation into flooring, decking or walls
- Supplied with extruded housing to enable easy installation and protection in solid ground surfaces
- Requires RGB controller as detailed (see accessories)
- *Please note that this product requires controller and driver detailed on this page.*
- *Each ADK75W/48V and controller will operate a maximum of 4 Gemini fittings*



Supplied with optional extruded housing



ARGBC/350  
See Page 333

## LED Information

Total (Watts)	9W
Lumens Delivered	
Red	97lm
Green	163lm
Blue	30lm
Input	350mA
Operating Temp	-20°C to 40°C

	Code	Lamp	Description
	<b>AGWOLED/RGB</b>	LED	9W - RGB
<b>Accessories</b>	<b>ARGBC/350</b>	LED RGB 350mA Controller	
	<b>ARGBC/R/350</b>	LED RGB 350mA Repeater	
	<b>ADK75W/48V</b>	75W 48V LED Driver	





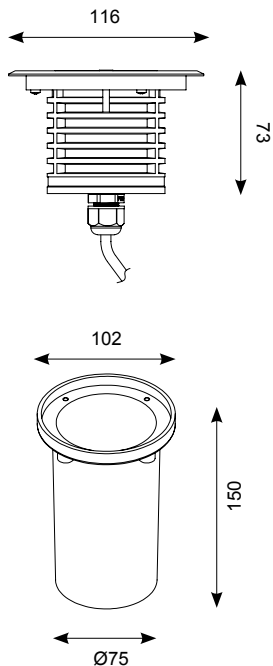
# Aspect LED Square

Supplied c/w Integral Driver



325

- Powerful compact LED inground uplight
- Exceeds performance of halogen
- Die-cast aluminium construction with 316L stainless steel top frame and allen key screws
- Supplied c/w plastic sleeve to enable easy installation and protection in solid ground surfaces
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 57,000 hours
- Non-dimmable



## LED Information

Total (Watts)	7W
Lumens Delivered	482lm
Lm/W	69lm
Beam Angle	25°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
AASSQWOLED	LED	7W - Cool White

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



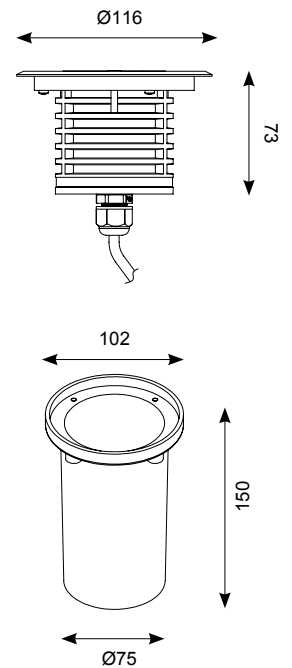
# Aspect LED Circular

Supplied c/w Integral Driver

326



- Powerful compact LED inground uplight
- Exceeds performance of halogen
- Die-cast aluminium construction with 316L stainless steel top frame and allen key screws
- Supplied c/w plastic sleeve to enable easy installation and protection in solid ground surfaces
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 57,000 hours
- Non-dimmable



## LED Information

Total (Watts)	7W
Lumens Delivered	482lm
Lm/W	69lm
Beam Angle	25°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
AASWOLED	LED	7W - Cool White





# Phantom LED Inground Uplight/Recessed Wall Light

Supplied c/w Integral Driver



327

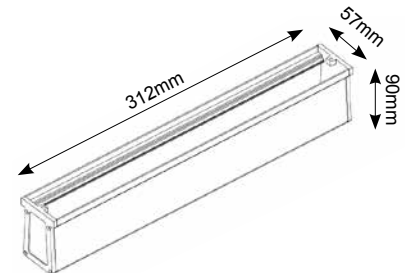
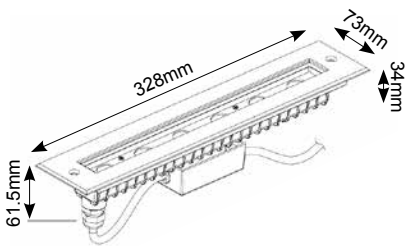
- Architectural linear fixture for recessed inground and wall applications
- 316L stainless steel bezel and powder coated aluminium housing
- Integral driver and pre-wired with 1 metre of rubber insulated cable
- Supplied c/w recessed mounting box for ease of installation and protection in solid surfaces
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 40,000 hours
- Non-dimmable



Inground



Wall Mounting



## LED Information

Total (Watts)	8W
Lumens Delivered	628lm
Lm/W	79lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
APWOLED	LED	8W - Cool White

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



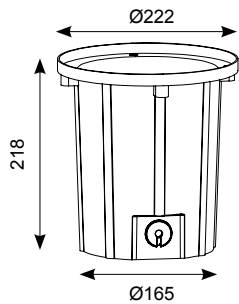
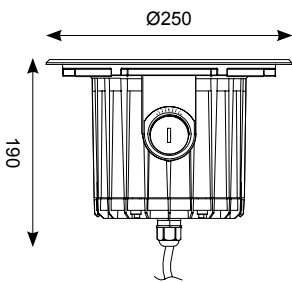


# Highlight LED Adjustable Inground Uplight

Supplied c/w Integral Driver



- Inground uplight with variable beam direction
- 316L stainless steel bezel and powder coated aluminium housing
- Comparable performance to 70W HQI
- Integral driver and pre-wired with 1 metre of rubber insulated cable
- Honeycombe accessory included for optional increased glare control
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 60,000 hours
- Non-dimmable



## LED Information

Total (Watts)	18W
Lumens Delivered	1389lm
Lm/W	73lm
Beam Angle	15°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Adjustable Beam Angle



Honeycombe Anti-glare Accessory



Code	Lamp	Description
AHAWOLED	LED	18W - Cool White



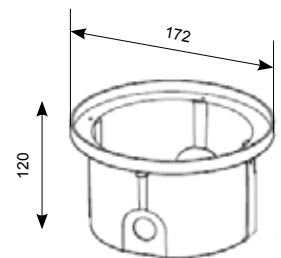
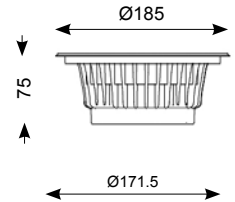
# Citizen LED Inground Uplight

Supplied c/w Integral Driver

330



- 316L stainless steel bezel and powder coated aluminium housing
- Comparable performance to 32W PLC
- Integral driver and pre-wired with 1 metre of rubber insulated cable
- Supplied with plastic housing to enable easy installation and protection in solid ground surfaces
- Static load test to 2000kg and therefore suitable for vehicular and pedestrian traffic
- LED lifespan L70 60,000 hours
- Non-dimmable



## LED Information

Total (Watts)	12W
Lumens Delivered	725lm
Lm/W	60lm
CRI	Ra 70
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C

Code	Lamp	Description
ACWOLED	LED	12W - Cool White

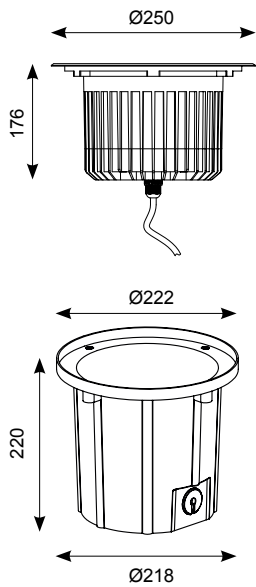


# Laser LED

Supplied c/w Integral Driver



- High performance LED inground uplight
- Die-cast aluminium construction with 316L stainless steel top frame and allen key screws
- Exceeds performance of 70W HQI
- Supplied c/w plastic sleeve to enable easy installation and protection in solid ground surfaces
- Static load test to 3000kg and therefore suitable for pedestrian and vehicular traffic
- Pre-wired with 1 metre of rubber insulated cable
- LED lifespan L70 56,000 hours
- Non-dimmable



### LED Information

Total (Watts)	31W
Lumens Delivered	1809lm
Lm/W	58lm
Beam Angle	24°
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 40°C



Code	Lamp	Description
ALWOLED	LED	31W - Cool White



# DMX RGB LED Controller 24V Constant Voltage



ARGBC/24V



IR Remote Control

ARGBC/R/24V

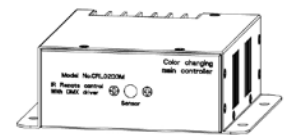
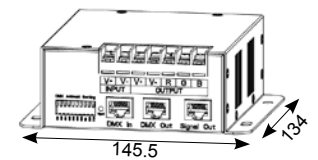
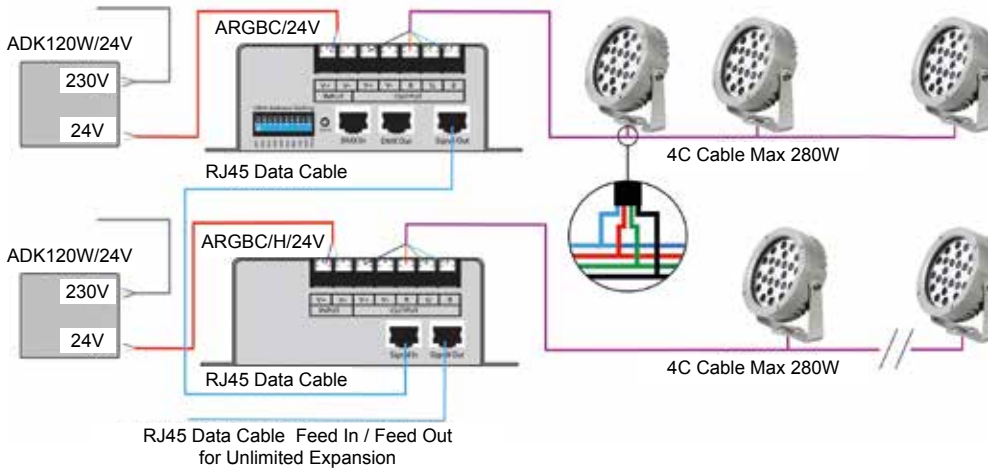


### ARGBC/24V

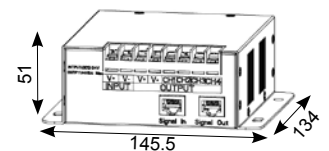
- RGB Controller for 24V RGB products.
- RGB control allows a variety of colour changing modes to suit all applications.
- DMX compatible
- Synchronise a number of colour changing products through one controller.
- RJ45 connections for unlimited optional expansion.
- Remote control range of 5M
- Parallel wiring
- Requires driver as detailed

### ARGBC/R/24V

- Repeater for ARGBC/24V
- Repeaters can be installed to synchronise large installations.
- Output of 24V.
- Parallel wiring
- Requires driver as detailed



ARGBC/24V



ARGBC/R/24V

Code	Description
<b>ARGBC/24V</b>	LED RGB DMX Controller - 24V
<b>ARGBC/R/24V</b>	LED RGB DMX Repeater - 24V

<b>Accessory</b>	<b>ADK120W/24V</b>	120W 24V LED Driver
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### ARGBC/350

- RGB Controller for 350mA V RGB products.
- RGB control allows a variety of colour changing modes to suit all applications.
- Synchronise a number of colour changing products through one controller.
- Option expansion
- Remote control range of 5M
- Series wiring
- Requires driver as detailed



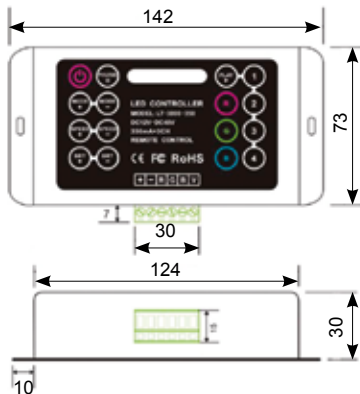
ARGBC/350

### ARGBC/R/350

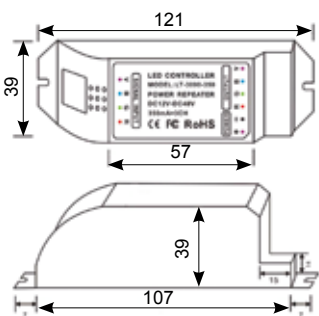
- Repeater for ARGBC/350
- Repeaters can be installed to synchronise large installations.
- Output of 350mA.
- Series wiring
- Requires driver as detailed



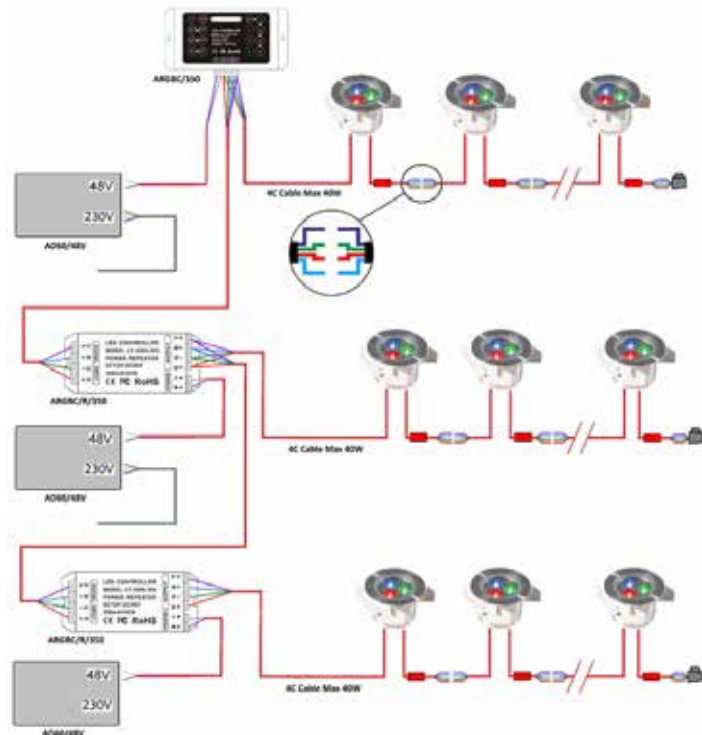
ARGBC/R/350



ARGBC/350



ARGBC/R/350



Code Description

**ARGBC/350** LED RGB Controller - 350mA

**ARGBC/R/350** LED RGB Repeater - 350mA

**Accessory** **ADK75W/48V** 75W 48V LED Driver

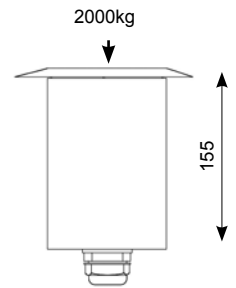
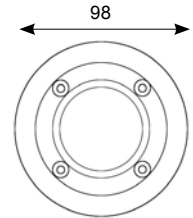
# GU10/MR16 Inground Uplight

Supplied Less Lamp

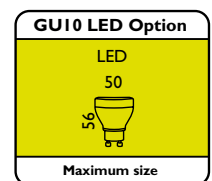
334



- 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



**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
<b>AWO50</b>	GU10/MR16	50W





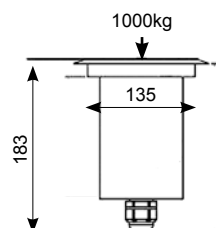
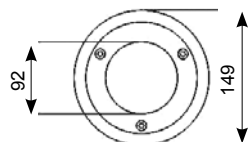
# GU10 Adjustable Inground Uplight

Supplied Less Lamp



335

- Die-cast aluminium housing with a clear toughened glass diffuser of 8mm thickness
- 316 stainless steel top ring and stainless steel allen key screws
- Adjustable lampholder to allow up to 15° vertical inclination of lamp
- Suitable for pedestrian traffic with a static impact resistance of up to 1000kgs



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



Code	Lamp	Description
<b>AWO/GU10</b>	GU10	50W

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





## Project

The Barge Gastro Pub - Dublin



Vulcan LED p350



Calinor LED p346



# *Floodlighting*

6 Product Groups

| 67 Products

# Floodlighting

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342

*Polaris AC LED*

344

*Mira LED*

346

*Calinor LED*

348

*Calinor LED White*

350

*Vulcan LED*

351

*Lynx LED Wallpack*



**Project - The Bleeding Horse**  
Dublin, Ireland



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



**Project - Sudeley Castle**  
Winchcombe, UK

# Polaris AC LED Floodlight

No Driver Required

342

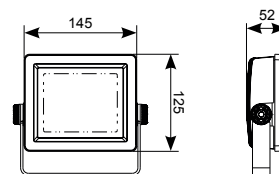


APOLED10

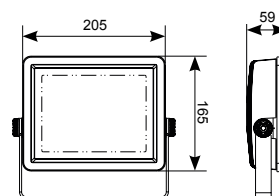


APOLED30

- Slim profile die-cast aluminium architectural floodlight
- No driver required
- IK10 rated
- 10W LED exceeds performance of halogen
- Pre-wired with 1 metre of rubber insulated cable for ease of installation (500mm for 10W)
- LED lifespan L70 40,000 hours
- Non-dimmable



APOLED10



APOLED30

## LED Information

Total (Watts)	10W
	30W
Lumens Delivered	
10W	852lm
30W	2272lm
Lm/W 10W	85lm
Lm/W 30W	71lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	
10W	-20°C to 40°C
30W	-40°C to 40°C

Code	Lamp	Description
APOLED10	LED	10W - Cool White
APOLED30	LED	30W - Cool White

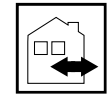




# Polaris AC LED Floodlight

No Driver Required

- Slim profile die-cast aluminium architectural floodlight
- No driver required
- IK10 rated
- 50W LED comparable light output to 70W HQI
- 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 40,000 hours
- Non-dimmable



100W  
200W

50W



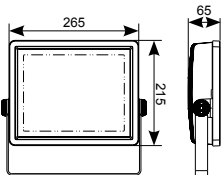
APOLED50



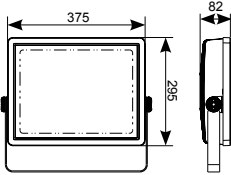
APOLED100



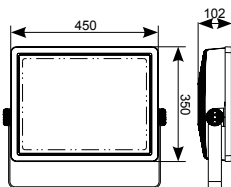
APOLED200



APOLED50



APOLED100



APOLED200

## LED Information

Total (Watts)	50W
	100W
	200W

Lumens Delivered	
50W	4158lm
100W	8179lm
200W	15847lm

Lm/W 50W	80lm
Lm/W 100W	80lm
Lm/W 200W	78lm

CRI Ra 80

CCT 4000K

Input 230V

Hertz 50/60Hz

Operating Temp -40°C to 40°C

Code	Lamp	Description
<b>APOLED50</b>	LED	50W - Cool White
<b>APOLED100</b>	LED	100W - Cool White
<b>APOLED200</b>	LED	200W - Cool White

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

Option	/PC	Electronic Photocell ( 50W/100W/200W Only)
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Warrington: +44 (0) 1942 433333  
Belfast: +44 (0) 2890 773750



# Mira LED Floodlight

Supplied c/w Integral Driver

344



AMLED10



AMLED10/PIR



6 Metres  
10 Seconds - 10 Minutes  
5 Lux - PC Off

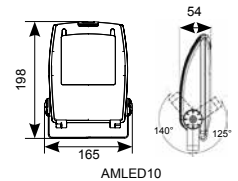


AMLED30

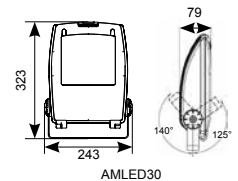


AMLED50

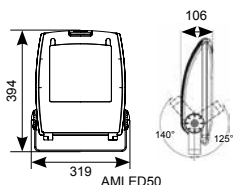
- Architectural slim die-cast LED floodlight
- 10W LED ideal for halogen replacement
- 30W LED comparable light output to 35W HQI
- 50W LED comparable light output to 70W HQI
- Optically textured glass for enhanced light output
- Heat sink design provides optimum LED life
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 50,000 hours
- Non-dimmable



AMLED10



AMLED30



AMLED50

## LED Information

Total (Watts)	10W
	30W
	50W

Lumens Delivered	
10W	718lm
30W	2816lm
50W	4805lm

Lm/W 10W 72lm

Lm/W 30W 91lm

Lm/W 50W 96lm

CRI Ra 70

CCT 4750K

Input 230V

Hertz 50Hz

Operating Temp -20°C to 50°C

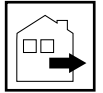
	Code	Lamp	Description	Windage
Standard	AMLED10	LED	10W - Cool White	0.03
PIR	AMLED10/PIR	LED	10W c/w PIR - Cool White	0.03
Standard	AMLED30	LED	30W - Cool White	0.08
PIR	AMLED30/PIR	LED	30W c/w PIR - Cool White	0.08
Standard	AMLED50	LED	50W - Cool White	0.13

Option	/PC	Electronic Photocell (50W only)
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# Mira LED Floodlight

Supplied c/w Integral Driver



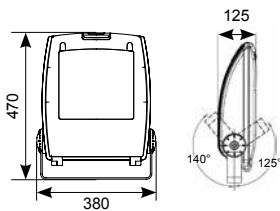
- Architectural slim die-cast LED floodlight
- 100W LED exceeds performance of 150W HQI
- 200W LED comparable performance to 400W HQI
- Optically textured glass for enhanced light output
- Heat sink design provides optimum LED life
- Graphite textured paint finish
- Pre-wired with 1 metre of rubber insulated cable for ease of installation
- PIR versions complete with manual override facility
- LED lifespan L70 50,000 hours
- Non-dimmable



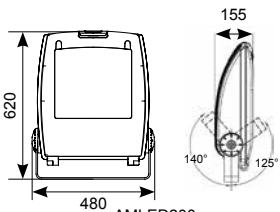
AMLED100



AMLED200



AMLED100



AMLED200

### LED Information

Total (Watts)	100W 200W
Lumens Delivered	
100W	9390lm
200W	19712lm
Lm/W 100W	96lm
Lm/W 200W	101lm
CRI	Ra 70
CCT	4750K
Input	230V
Hertz	50Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description	Windage
<b>AMLED100</b>	LED	100W - Cool White	0.18
<b>AMLED200</b>	LED	200W - Cool White	0.30

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

<b>Options</b>	<b>/PC</b>	Electronic Photocell
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# Calinor LED Polycarbonate Floodlight

Supplied c/w Integral Driver

346



ACALED10



ACALED10/PIR



ACALED20

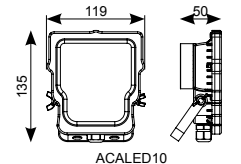


ACALED20/PIR

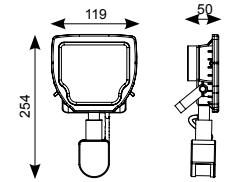


**PIR**  
5 - 12 Metres  
10 Seconds - 8 Minutes  
3 Lux - PC Off

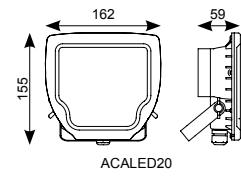
- Compact and economic polycarbonate LED floodlight
- Warm and Cool white options
- 10W LED ideal for halogen replacement  
20W LED exceeds performance of 20W HQI
- Polished faceted reflector and textured glass for optimum performance
- Pre-wired with 1 metre of rubber insulated cable for ease of installation (500mm for 10W)
- PIR versions complete with manual override facility
- LED lifespan L70 30,000 hours
- Non-dimmable



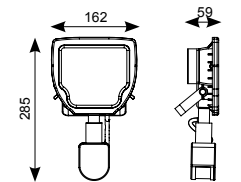
ACALED10



ACALED10/PIR



ACALED20



ACALED20/PIR

## LED Information

	Cool White	Warm White
<b>Total (Watts)</b>		10W 20W
<b>Lumens Delivered</b>		
10W	942lm	892lm
20W	1924lm	1807lm
Lm/W 10W	94lm	89lm
Lm/W 20W	96lm	90lm
<b>CRI</b>		Ra 70
<b>CCT</b>		4000K 3000K
<b>Input</b>		230V
<b>Hertz</b>		50Hz
<b>Operating Temp</b>		-10°C to 40°C

	Code	Lamp	Description
<b>Standard</b>	<b>ACALED10</b>	LED	10W - Cool White
<b>PIR</b>	<b>ACALED10/PIR</b>	LED	10W c/w PIR - Cool White
<b>Standard</b>	<b>ACALED20</b>	LED	20W - Cool White
<b>PIR</b>	<b>ACALED20/PIR</b>	LED	20W c/w PIR - Cool White
<b>Standard</b>	<b>ACALED10/WW</b>	LED	10W - Warm White
<b>PIR</b>	<b>ACALED10/WW/PIR</b>	LED	10W c/w PIR - Warm White
<b>Standard</b>	<b>ACALED20/WW</b>	LED	20W - Warm White
<b>PIR</b>	<b>ACALED20/WW/PIR</b>	LED	20W c/w PIR - Warm White



# 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 30,000 hours
- Non-dimmable



PIR



5 - 12 Metres  
10 Seconds - 8 Minutes  
3 Lux - PC Off



ACALED30



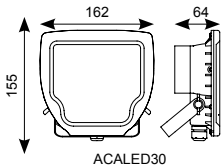
ACALED30/PIR



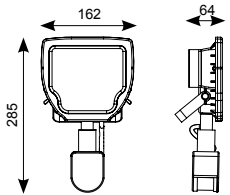
ACALED50



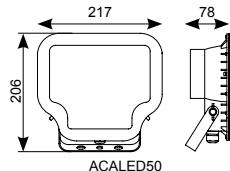
ACALED50/PIR



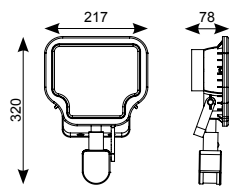
ACALED30



ACALED30/PIR



ACALED50



ACALED50/PIR

## LED Information

Cool White      Warm White

Total (Watts)      30W  
50W

Lumens Delivered  
30W      2708lm      2701lm  
50W      4770lm      4511lm

Lm/W 30W      97lm      97lm

Lm/W 50W      99lm      94lm

CRI      Ra 70

CCT      4000K

3000K

Input      230V

Hertz      50Hz

Operating Temp      -10°C to 40°C

	Code	Lamp	Description
<b>Standard</b>	<b>ACALED30</b>	LED	30W - Cool White
<b>PIR</b>	<b>ACALED30/PIR</b>	LED	30W c/w PIR - Cool White
<b>Standard</b>	<b>ACALED50</b>	LED	50W - Cool White
<b>PIR</b>	<b>ACALED50/PIR</b>	LED	50W c/w PIR - Cool White
<b>Standard</b>	<b>ACALED30/WW</b>	LED	30W - Warm White
<b>PIR</b>	<b>ACALED30/WW/PIR</b>	LED	30W c/w PIR - Warm White
<b>Standard</b>	<b>ACALED50/WW</b>	LED	50W - Warm White
<b>PIR</b>	<b>ACALED50/WW/PIR</b>	LED	50W c/w PIR - Warm White



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# Calinor LED White Polycarbonate Floodlight

Supplied c/w Integral Driver



AWCALED10



AWCALED10/PIR



AWCALED20

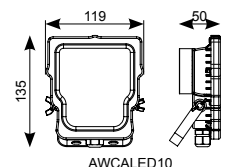


AWCALED20/PIR

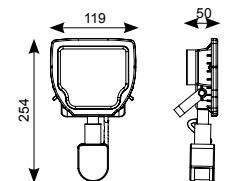


**PIR**  
5 - 12 Metres  
10 Seconds - 8 Minutes  
3 Lux - PC Off

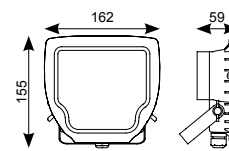
- Compact and economic white polycarbonate LED floodlight
- Warm and Cool white options
- 10W LED ideal for halogen replacement  
20W LED exceeds performance of 20W HQI
- Polished faceted reflector and textured glass for optimum performance
- Pre-wired with 1 metre of rubber insulated cable for ease of installation (500mm for 10W)
- PIR versions complete with manual override facility
- LED lifespan L70 30,000 hours
- Non-dimmable



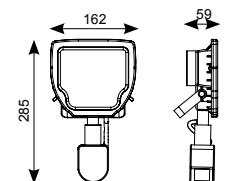
AWCALED10



AWCALED10/PIR



AWCALED20



AWCALED20/PIR

## LED Information

	Cool White	Warm White
<b>Total (Watts)</b>	10W	20W
<b>Lumens Delivered</b>		
10W	942lm	892lm
20W	1924lm	1807lm
Lm/W 10W	94lm	89lm
Lm/W 20W	96lm	90lm
<b>CRI</b>	Ra 70	
<b>CCT</b>	4000K	
	3000K	
<b>Input</b>	230V	
<b>Hertz</b>	50Hz	
<b>Operating Temp</b>	-10°C to 40°C	

	Code	Lamp	Description
<b>Standard</b>	<b>AWCALED10</b>	LED	10W - Cool White - White Housing
<b>PIR</b>	<b>AWCALED10/PIR</b>	LED	10W c/w PIR - Cool White - White Housing
<b>Standard</b>	<b>AWCALED20</b>	LED	20W - Cool White - White Housing
<b>PIR</b>	<b>AWCALED20/PIR</b>	LED	20W c/w PIR - Cool White - White Housing
<b>Standard</b>	<b>AWCALED10/WW</b>	LED	10W - Warm White - White Housing
<b>PIR</b>	<b>AWCALED10/WW/PIR</b>	LED	10W c/w PIR - Warm White - White Housing
<b>Standard</b>	<b>AWCALED20/WW</b>	LED	20W - Warm White - White Housing
<b>PIR</b>	<b>AWCALED20/WW/PIR</b>	LED	20W c/w PIR - Warm White - White Housing



# Calinor LED White Polycarbonate Floodlight

Supplied c/w Integral Driver

- Compact and economic white 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 30,000 hours
- Non-dimmable



5 - 12 Metres  
10 Seconds - 8 Minutes  
3 Lux - PC Off



AWCALED30



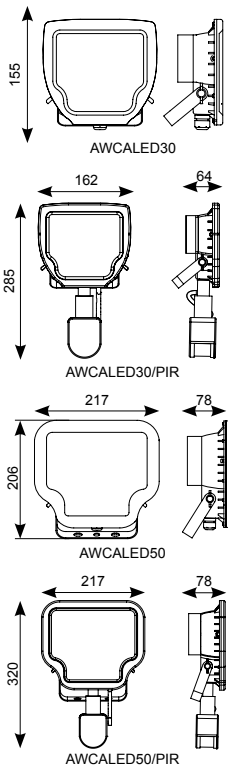
AWCALED30/PIR



AWCALED50



AWCALED50/PIR



## LED Information

Cool White      Warm White

Total (Watts)	30W	
	50W	
<b>Lumens Delivered</b>		
30W	2708lm	2701lm
50W	4770lm	4511lm
Lm/W 30W	97lm	97lm
Lm/W 50W	99lm	94lm
CRI	Ra 70	
CCT	4000K	
	3000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	

	Code	Lamp	Description
<b>Standard</b>	<b>AWCALED30</b>	LED	30W - Cool White - White Housing
<b>PIR</b>	<b>AWCALED30/PIR</b>	LED	30W c/w PIR - Cool White - White Housing
<b>Standard</b>	<b>AWCALED50</b>	LED	50W - Cool White - White Housing
<b>PIR</b>	<b>AWCALED50/PIR</b>	LED	50W c/w PIR - Cool White - White Housing
<b>Standard</b>	<b>AWCALED30/WW</b>	LED	30W - Warm White - White Housing
<b>PIR</b>	<b>AWCALED30/WW/PIR</b>	LED	30W c/w PIR - Warm White - White Housing
<b>Standard</b>	<b>AWCALED50/WW</b>	LED	50W - Warm White - White Housing
<b>PIR</b>	<b>AWCALED50/WW/PIR</b>	LED	50W c/w PIR - Warm White - White Housing



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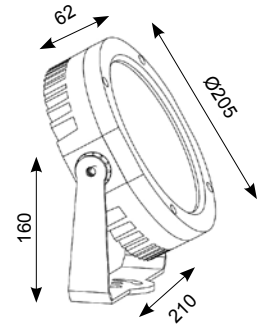


# Vulcan LED RGB Projector

Supplied Less Driver



- High output projector for the illumination of large surface areas
- Suitable for internal and external applications
- Pre-wired with 2 metres of rubber insulated cable
- *Please note that this product requires controller and driver detailed on this page.*
- *Each DMX controller will operate a maximum of 3 Vulcan projectors*



ARGBC/24V  
See Page 332

Code	Lamp	Description
<b>AVPLED/RGB</b>	LED	36W - RGB
<b>Accessories ARGBC/24V</b>	LED RGB 24V DMX Controller	
<b>ARGBC/R/24V</b>	LED RGB 24V DMX Repeater	
<b>ADK120W/24V</b>	120W 24V LED Driver	

### LED Information

Total (Watts)	36W
Total (Amps)	1.5A
Lumens Delivered	
Red	383lm
Green	691lm
Blue	168lm
Input	24V
Operating Temp	-20°C to 40°C



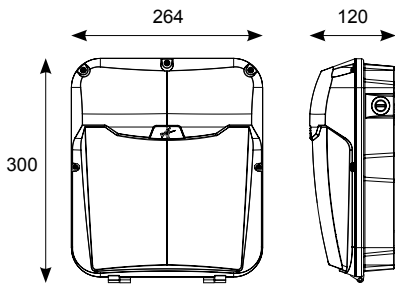


# Lynx LED Wallpack

Supplied c/w Integral Driver



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



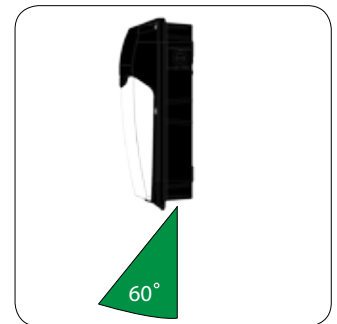
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**Emergency Standby**



**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
	<b>ALWPLED</b>	LED	29W - Cool White
<b>Options</b>	<b>/PC</b>		Electronic Photocell
	<b>/MWS</b>		Integral Microwave Sensor
	<b>/M3</b>		Emergency



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## **Project**

*F J Need (Foods) Ltd - Nantwich*



Stormloc LED p363



# *Industrial*

---

10 Product Groups | 270 Products

**357**

*Opti-Lux LED Linear*

**358**

*IP65 MultiRay LED Low Bay and High Bay*

**360**

*PIR Sensor*

**361**

*Pre-Wired T8 Non-Corrosive for LED Tubes*

**363**

*Stormloc LED Non-Corrosive*

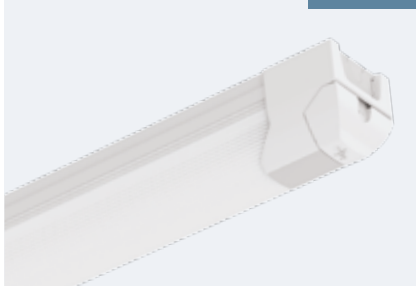
**364**

*Tornado LED Non-Corrosive*

367

*IP65 T8 Non-Corrosive*

368

*Airbeam LED Batten*

370

*Topline 6 LED Batten*

372

*T8 Fluorescent Battens  
and Accessories*



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

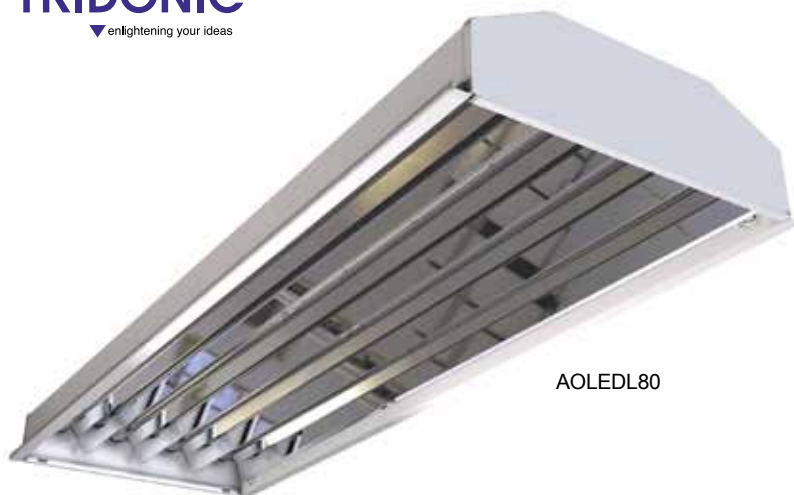


- LED Low / High Bay suitable for industrial and commercial applications
- 92W performance comparable to 4x55W PL
- 160W exceeds performance of 4x49W T5
- Instant light output and unlimited switching
- Mild Steel powder coat construction
- Mirror finished reflector optimises light output for maximum efficiency
- LED lifespan L70 95,000 hours
- On site commissioning recommended for all installations incorporating sensors

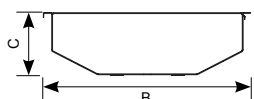
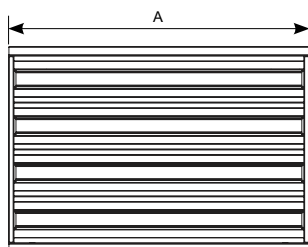


AOLEDL55

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AOLEDL80



### LED Information

Total (Watts)	92W
	160W
Lumens Delivered	
92W	12386lm
160W	19236lm
Lm/W 92W	135lm
Lm/W 160W	120lm
CRI	Ra 80
CCT	4000K
Input	220/240V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

Code	Lamp	Description	A	B	C
<b>AOLEDL55</b>	LED	92W - Cool White	615	410	120
<b>AOLEDL80</b>	LED	160W - Cool White	1455	410	120
<b>AOCONTROLLER</b>		Sensor Hand Controller			
<b>AOCOMMISSION</b>		On-site Commissioning per day			

Options	/M3	Emergency
	/SEN1	Presence Detector
	/SEN1/M3	Emergency and Presence Detector
	/SEN3	Presence Detector and Daylight Dimming
	/SEN3/M3	Emergency and Presence Detector and Daylight Dimming



# IP65 MultiRay LED

Supplied c/w Integral Driver

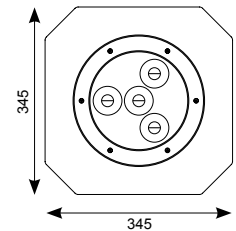
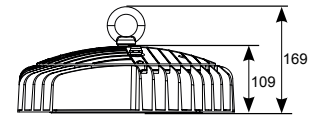


AMRLED4/GR



AMRLED1/W

- Compact LED low/high bay for industrial, commercial and retail applications
- IP65 as standard
- Choice of four lumen packages: 9,899lm, 14,964lm, 18,438lm, and 24,148lm
- Pre-wired c/w 3 metres of H07RN-F cable for ease and speed of installation
- IK08 rating
- Suspension hook supplied as standard
- Alternative installation options by means of drop rods or chains/wire
- Optional polycarbonate lens models available for food industry applications
- Die-cast powder coated construction and heatsink for optimum thermals and performance
- Options of textured graphite and white powder coated paint finish
- LED lifespan L70 50,000 hours
- Non-dimmable



	Code	Lamp	Description
<b>Graphite</b>	<b>AMRLED1/GR</b>	LED	105W LED High Bay Graphite
	<b>AMRLED2/GR</b>	LED	134W LED High Bay Graphite
	<b>AMRLED3/GR</b>	LED	165W LED High Bay Graphite
	<b>AMRLED4/GR</b>	LED	250W LED High Bay Graphite
<b>White</b>	<b>AMRLED1/W</b>	LED	105W LED High Bay White
	<b>AMRLED2/W</b>	LED	134W LED High Bay White
	<b>AMRLED3/W</b>	LED	165W LED High Bay White
	<b>AMRLED4/W</b>	LED	250W LED High Bay White
<b>Options</b>	<b>/CPC</b>	Polycarbonate Cover Fitted (for Food Industry applications)	

### LED Information

<b>Total (Watts)</b>	105W	165W
	134W	250W
<b>Lumens Delivered</b>	9899lm	18438lm
	14964lm	24148lm
<b>Lm/W</b>	92lm	110lm
	112lm	100lm
<b>CRI</b>	Ra 80	
<b>CCT</b>	5400K	
<b>Input</b>	230V	
<b>Hertz</b>	50/60Hz	
<b>Operating Temp</b>	-20°C to 40°C	





# MultiRAY

## High Performance LED

Pre-wired c/w 3 metres of H07RN-F cable for ease and speed of installation



M16 Eye bolt included as standard, will also accept M16 Rod

Heavy duty heat sink ensures LEDs are kept well below maximum permitted temperatures

Aesthetic integral aluminum driver housing maintains optimal thermal performance

High performance COB LEDs

Reflector cones for precise beam control

Gasket provides IP65 ingress protection

IK08 Rating

Toughened safety glass with optional PC Lens for food industry applications

polished aluminium securing ring

MultiRay Product Code	MultiRay LED Delivered Lumens	HID Equivalent Lamp Type	HID Equivalent Lumens	HID Delivered Lumens (65% DLOR)
AMRLED1/**	10,500	150W SON-T	15,000	9750lm
	10,500	150W CDM-T	15,000	9750lm
	10,500	150W HQI-E	13,300	8645lm
AMRLED2/**	15,800	250W HQI-T	18,900	12285lm
	15,800	250W HQI-E	23,800	15470lm
	15,800	400W MBF	22,500	14625lm
AMRLED3/**	18,900	250W SON-T	27,500	17875lm
	18,900	250W SON-E	26,000	16900lm
	18,900	320W HQI-T	30,000	19500lm
AMRLED4/**	24,500	400W HQI-T	32,400	21060lm
	24,500	400W HQI-E	41,000	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 useable.



ASEN3

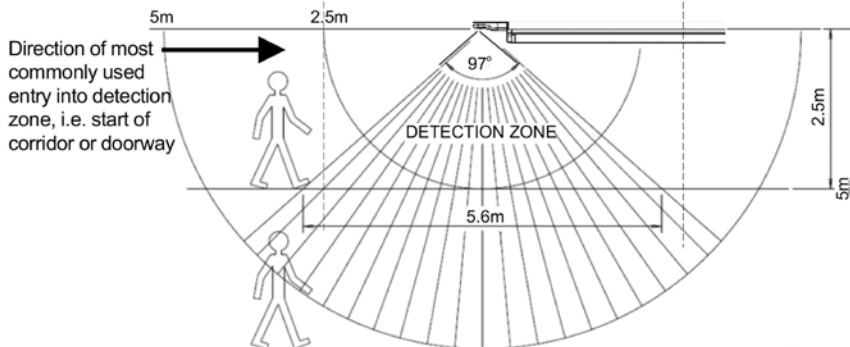
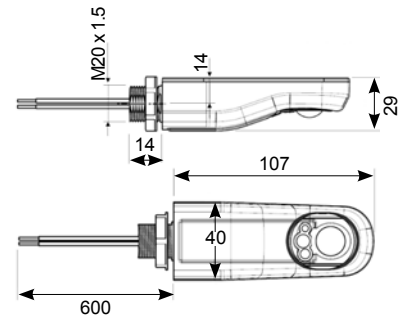
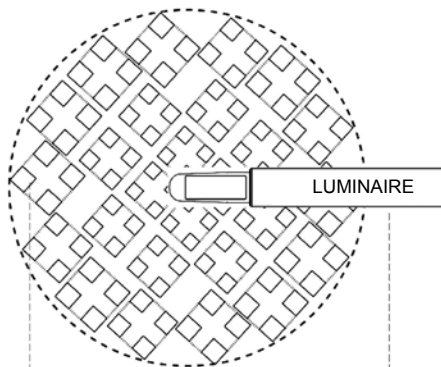
- Programmable PIR
- Simple connection via any 20mm knock out
- Supplied with 500mm connection leads
- 360° movement detection
- Programmable via AOCONTROLLER for ASEN3 option only
- Option of IP20 and IP65 versions
- Available with regulating photocell

*Please Note:  
ASEN3 and ASEN3/  
IP65 Battens and Non  
Corrosives must be ordered  
with dimnable control gear  
to operate with this PIR  
regulating photocell sensor*

**Plan View**

Detection pattern is a 360° cone shape. Diameter is 2.25 x the mounting height.

The squares show the arrangement of the detection pattern. Sensitivity is greater when approaching at a tangent rather than heading towards the centre.



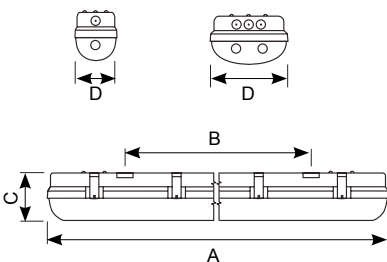
Code	Description
<b>ASEN1</b>	PIR Presence Detector (Maximum Rating 2A)
<b>ASEN3</b>	PIR /Regulating Photocell Detector (Maximum 4 Dimmable Ballasts)
<b>ASEN1/IP65</b>	IP65 PIR Presence Detector (Maximum Rating 2A)
<b>ASEN3/IP65</b>	IP65 PIR /Regulating Photocell Detector (Maximum 4 Dimmable Ballasts)
<b>AOCONTROLLER</b>	Sensor Hand Controller

# IP65 T8 Pre-Wired Non Corrosive For LED Tubes

Non Corrosive supplied Less Control Gear and Lamp



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



Code	Lamp	Description	A	B	C	D	Clips
<b>ADP2</b>	LED	1 x 600mm for LED Tube	655	478	110	105	4
<b>ADP4</b>	LED	1 x 1200mm for LED Tube	1265	907	110	105	8
<b>ADP5</b>	LED	1 x 1500mm for LED Tube	1565	907	110	105	10
<b>ADP2X2</b>	LED	2 x 600mm for LED Tube	655	478	110	165	4
<b>ADP2X4</b>	LED	2 x 1200mm for LED Tube	1265	907	110	165	8
<b>ADP2X5</b>	LED	2 x 1500mm for LED Tube	1565	907	110	165	10

**Accessories** **ASEN1/IP65** \*IP65 PIR Presence Detector (Maximum Rating 2A)

\*Presence Detectors for on-site installation via 20mm threaded connection



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



# Stormloc<sup>TM</sup>

ELEMENT PROTECTION **LED**

Unique design of brackets for BESA box mounting or direct ceiling mounting

UV stabilised polycarbonate base for durability and strength

Heavy duty lockable stainless steel clips as standard

**TRIDONIC** driver  
(dimnable option available)

Integral microwave sensor option

Dedicated LED circuit for integral Self-Test emergency option

Two fused terminal blocks for surge protection

Aluminium gear tray for thermal management to maximise lifetime of LED array

Latest LED chips for maximum performance and efficiency

Visiluxe optical lens maximises performance and light distribution

Optical lens securing end cap

Provides appearance of traditional fluorescent

Shockproof polycarbonate diffuser for high durability and strength



# Stormloc IP65 LED Non-Corrosive

Supplied c/w Integral Driver

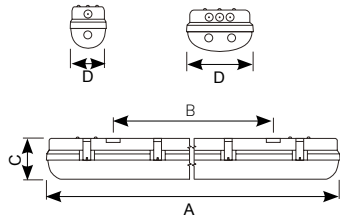
- Up to 48% energy saving compared to T8 fluorescent
- Light output exceeds performance of T8 and T5 fluorescent by up to 37%
- LED performance allows point for point replacement of existing fluorescent luminaires
- Internal linear Visiluxe optical lens for maximum performance and light distribution. Provides appearance of traditional fluorescent
- Instant light output with unlimited switching
- Unique luminaire fixing clip design allows option of mounting onto BESA box or directly onto ceiling surfaces
- Lockable heavy duty stainless steel clips supplied as standard for added safety and security
- Polycarbonate base and diffuser maximises durability and strength
- Self-test emergency as standard
- CorridorFUNCTION for dimmable microwave sensor models
- LED lifespan L70 56,000 hours



Internal high performance optical lens



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## LED Information

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

Code	Lamp	Description	A	B	C	D
ASLED4	LED	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	Code	Description
	/M3	Self Test Emergency
	/MWS	Integral Microwave Sensor
	/DD	LED Dimmable
	/DD/M3	LED Dimmable Self Test Emergency
	/DD/MWS	LED Dimmable Integral Microwave Sensor
	/DD/MWS/M3	LED Dimmable Integral Microwave Sensor Self Test Emergency



# Tornado IP65 LED Non-Corrosive

Supplied c/w Integral Driver

364



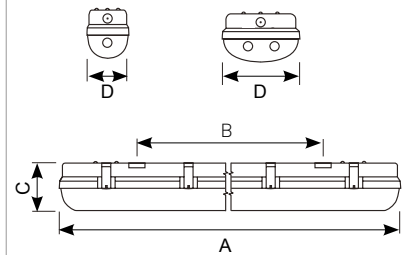
Stainless Steel Clips as standard



**Tornado**  
ELEMENT PROTECTION **LED**



- 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 35,000 hours
- Non-dimmable



Code	Lamp	Description	A	B	C	D
<b>ATORLED4</b>	LED	20W	1266	860	75	85
<b>ATORLED5</b>	LED	28W	1566	960	75	85
<b>ATORLED6</b>	LED	34W	1866	1030	80	85
<b>ATORLED2X4</b>	LED	40W	1266	860	75	118
<b>ATORLED2X5</b>	LED	58W	1566	960	75	118
<b>ATORLED2X6</b>	LED	70W	1855	1030	80	118

Options	Code	Description
	<b>/M3</b>	Self-Test Emergency
	<b>/MWS</b>	Integral Microwave Sensor
	<b>/MWS/M3</b>	Integral Microwave Sensor Self-Test Emergency

### LED Information

Total (Watts)	20W	40W
	28W	58W
	34W	70W
Lumens Delivered	2088lm	4425lm
	3230lm	6353lm
	3719lm	7537lm
Lm/W	105lm	110lm
	115lm	110lm
	109lm	108lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	-10°C to 40°C	





**Project - Source Park**  
Hastings, UK





# IP65 T8 Non Corrosive

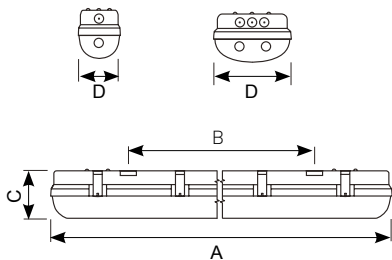
Supplied Less Lamp



- High Frequency control gear
- Grey polycarbonate body housing with clear diffuser and durable stainless steel clips
- Supplied with fixing brackets for surface mounting. Design allows for fixing directly onto trunking
- Clip and hook assembly for suspension mounting included
- UV resistant and shockproof polycarbonate diffuser
- Stainless Steel fixing clips available for food industry applications

**Please Note:**  
**ASEN3 and ASEN3/IP65 Non Corrosives must be ordered with dimnable control gear to operate with this PIR regulating photocell sensor**

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Stainless Steel Clips as standard



Code	Lamp	Description	A	B	C	D	Clips
<b>ADP118/HF</b>	T8	1 x 18W	655	478	110	105	4
<b>ADP136/HF</b>	T8	1 x 36W	1265	907	110	105	8
<b>ADP158/HF</b>	T8	1 x 58W	1565	907	110	105	10
<b>ADP170/HF</b>	T8	1 x 70W	1858	1170	110	105	12
<b>ADP218/HF</b>	T8	2 x 18W	655	478	110	165	4
<b>ADP236/HF</b>	T8	2 x 36W	1265	907	110	165	8
<b>ADP258/HF</b>	T8	2 x 58W	1565	907	110	165	10
<b>ADP270/HF</b>	T8	2 x 70W	1858	1170	110	165	12

<b>Options</b>	<b>/M3</b>	Emergency (18W not available)
	<b>/HFDD</b>	Digital Dimming (18W and 70W not available)
	<b>/HFDD/M3</b>	Digital Dimming Emergency (18W and 70W not available)

<b>Accessories</b>	<b>ASEN1/IP65</b>	*IP65 PIR Presence Detector (Maximum Rating 2A)
	<b>ASEN3/IP65</b>	*IP65 PIR /Regulating Photocell Detector (Maximum 4 Dimmable Ballasts)
		<b>*Presence Detectors for on-site installation via 20mm threaded connection</b>
	<b>ADP/SS/CLIP</b>	Stainless Steel Clip



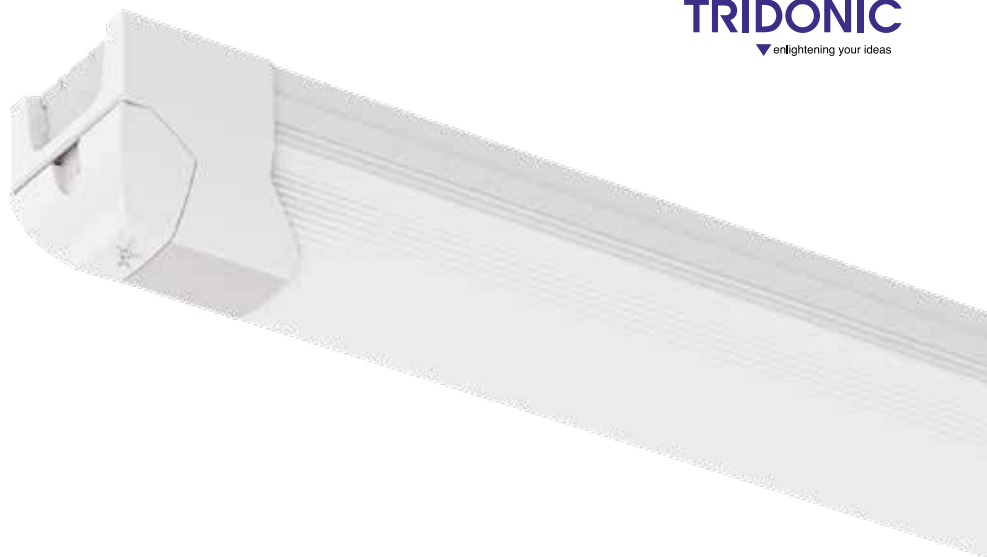
# Airbeam LED Batten

Supplied c/w Integral Driver

368



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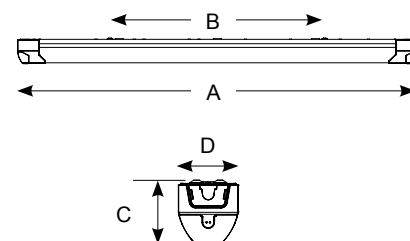
- High performance LED batten for multi-purpose applications
- Optional models for continuous through-wiring installations
- Up to 56% energy saving compared to T8 fluorescent
- Steel body construction with powder coat finish
- Polycarbonate reeded diffuser and end caps
- Instant light output with unlimited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

	Code	Lamp	Description	A	B	C	D
<b>Standard</b>	<b>ABLED4</b>	LED	1 x 24W	1220	600	77	76
	<b>ABLED5</b>	LED	1 x 33W	1525	600	77	76
	<b>ABLED6</b>	LED	1 x 42W	1820	600	77	76
	<b>ABLED2X4</b>	LED	1 x 52W	1220	600	77	76
	<b>ABLED2X5</b>	LED	1 x 61W	1525	600	77	76
	<b>ABLED2X6</b>	LED	1 x 84W	1820	600	77	76

<b>Continuous</b>	<b>ABLED4/TW</b>	LED	1 x 24W	1220	600	77	76
	<b>ABLED5/TW</b>	LED	1 x 33W	1525	600	77	76
	<b>ABLED6/TW</b>	LED	1 x 42W	1820	600	77	76
	<b>ABLED2X4/TW</b>	LED	1 x 52W	1220	600	77	76
	<b>ABLED2X5/TW</b>	LED	1 x 61W	1525	600	77	76
	<b>ABLED2X6/TW</b>	LED	1 x 84W	1820	600	77	76

\*Please note Joiner Piece Connection Cover supplied with all Through Wired Options

<b>Options</b>	<b>/M3</b>	Self-Test Emergency
	<b>/MWS</b>	Integral Microwave Sensor
	<b>/MWS/M3</b>	Integral Microwave Sensor Self-Test Emergency
	<b>/DD</b>	LED Dimmable
	<b>/DD/M3</b>	LED Dimmable Self-Test Emergency
	<b>/DD/MWS</b>	LED Dimmable Microwave Sensor
	<b>DD/MWS/M3</b>	LED Dimmable Microwave Sensor Self-Test Emergency



## LED Information

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



- *Push and release end cap for quick access*
- *Connection option via 20mm conduit entry*



**Push Release End Cap**

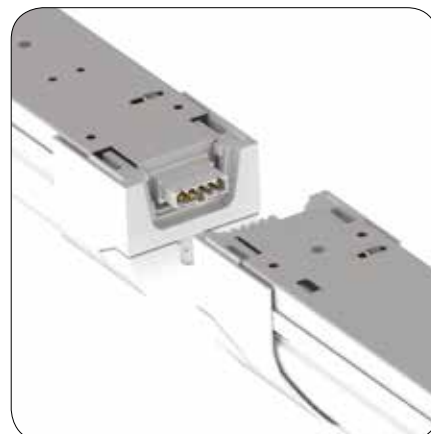


**20mm Conduit Entry Facility**

- *Optional fixing through end cap if required*
- *BESA box fixing as standard*
- *Panel mounted 5-pole plug and socket for continuous mounted option*

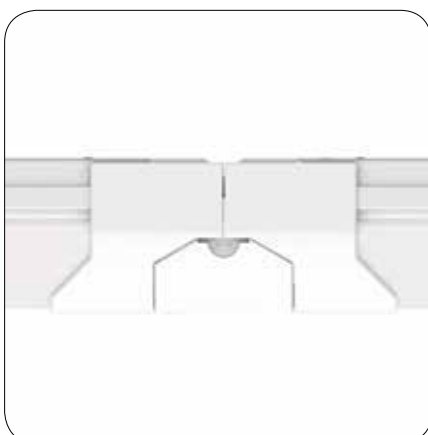


**End Cap Fixing Option**

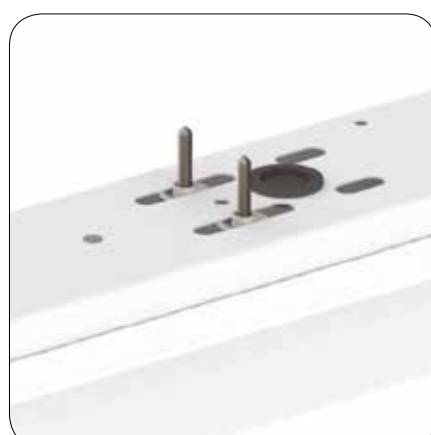


**Plug and Socket Connection for Through Wiring Options**

- *For continuous mounting options, remove standard push release end caps and replace with double joiner end cap connection cover (supplied)*
- *Unique ceiling mounting 'shunt' facility provides installer with flexibility and ease of adjustment when continuous mounting*



**Continuous Mounted Joiner Piece Connection Cover**



**Ceiling Mounting Continuous Fixings**

# Topline 6 LED Batten

Supplied c/w Integral Driver

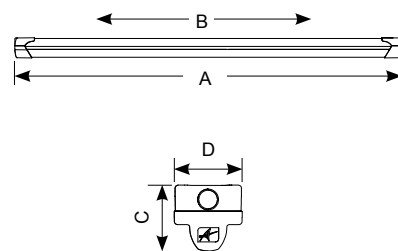
370



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- High performance LED batten for multi-purpose applications
- Exceeds performance of T5 equivalents
- Steel body construction with powder coat finish
- Unique opal diffuser design for optimum performance and light distribution
- Polycarbonate end caps
- Instant light output with unlimited switching
- Emergency option
- LED lifespan L70 36,000 hours
- Non-dimmable



Code	Lamp	Description	A	B	C	D
<b>ATLLED4</b>	LED	27W - Cool White	1220	600	65	65
<b>ATLLED5</b>	LED	35W - Cool White	1525	600	65	65
<b>ATLLED6</b>	LED	43W - Cool White	1745	600	65	65
<b>ATLLED2X4</b>	LED	48W - Cool White	1220	600	65	65
<b>ATLLED2X5</b>	LED	62W - Cool White	1525	600	65	65
<b>ATLLED2X6</b>	LED	86W - Cool White	1745	600	65	65

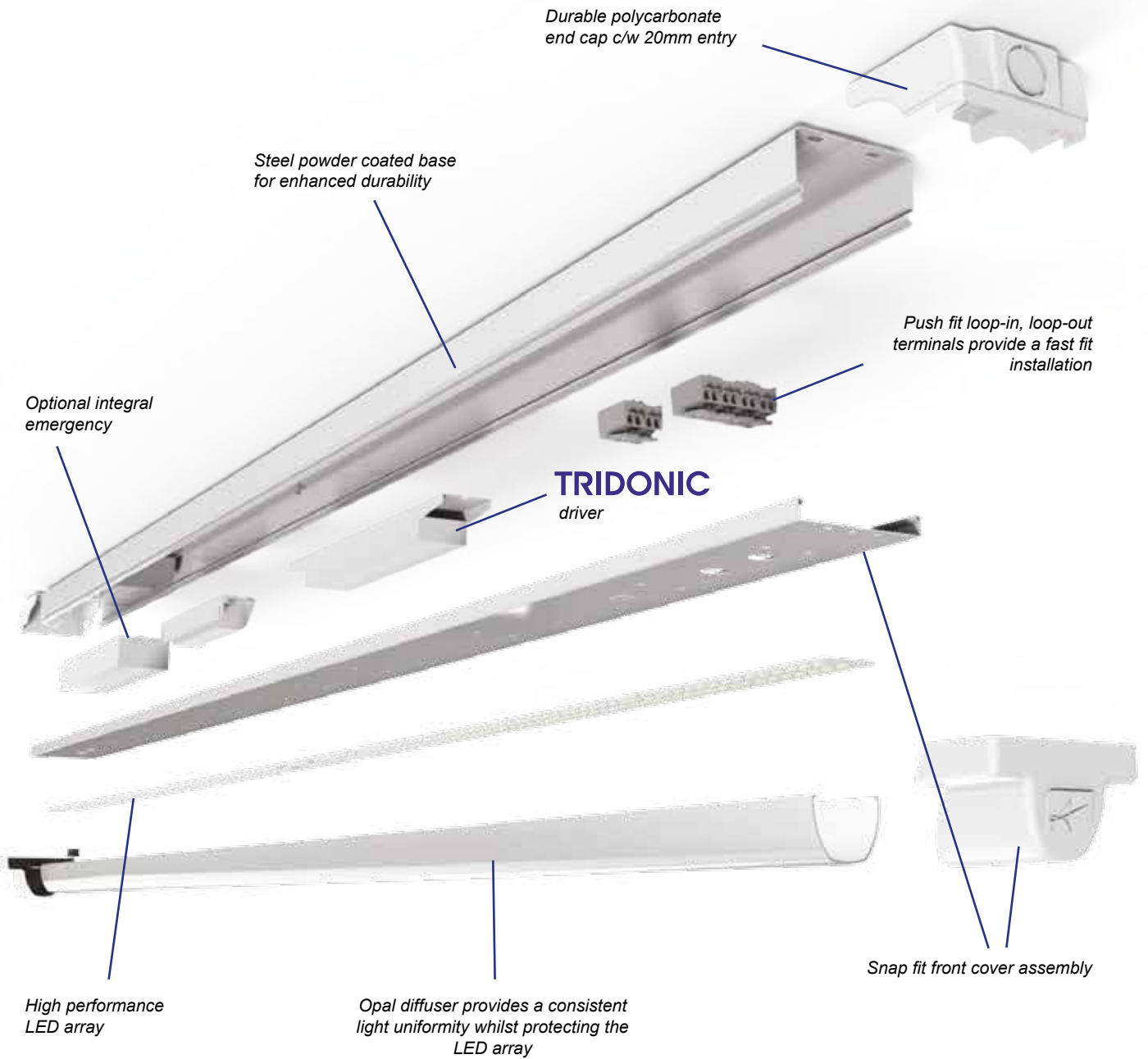
<b>Options</b>	<b>/M3</b>	<b>Emergency</b>
----------------	------------	------------------

## LED Information

<b>Total (Watts)</b>	27W	48W
	35W	62W
	43W	86W
<b>Lumens Delivered</b>	2879lm	4977lm
	3726lm	6595lm
	4500lm	9000lm
<b>Lm/W</b>	107lm	104lm
	106lm	106lm
	105lm	105lm
<b>CRI</b>	Ra 80	
<b>CCT</b>	4000K	
<b>Input</b>	220/240V	
<b>Hertz</b>	50Hz	
<b>Operating Temp</b>	-10°C to 50°C	

# TOP LINE 6™

LED Batten



# T8 High Frequency Fluorescent Battens

Supplied c/w Triphosphor Lamps

372



- Steel body construction, with powder paint coat finish
- Full range of accessories including reflectors, diffusers and wire guards (see pages 374 - 375)

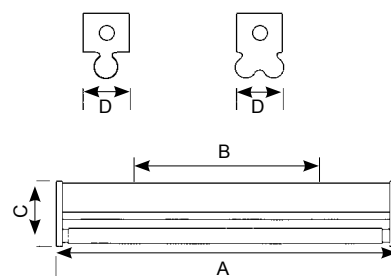
**Please Note:**  
**ASEN3 Battens must be ordered with dimnable control gear to operate with this PIR regulating photocell sensor**

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Code	Lamp	Description	A	B	C	D
<b>AB118/HF</b>	T8	1 x 18W	618	610	104	62
<b>AB136/HF</b>	T8	1 x 36W	1228	610	104	62
<b>AB158/HF</b>	T8	1 x 58W	1526	610	104	62
<b>AB170/HF</b>	T8	1 x 70W	1791	610	104	62
<b>AB218/HF</b>	T8	2 x 18W	618	610	104	87
<b>AB236/HF</b>	T8	2 x 36W	1228	610	104	87
<b>AB258/HF</b>	T8	2 x 58W	1526	610	104	87
<b>AB270/HF</b>	T8	2 x 70W	1791	610	104	87

Options		
<b>/M3</b>	Emergency	
<b>/HFDD</b>	Digital Dimming (Maximum 58W)	
<b>/HFDD/M3</b>	Digital Dimming Emergency (Maximum 58W)	

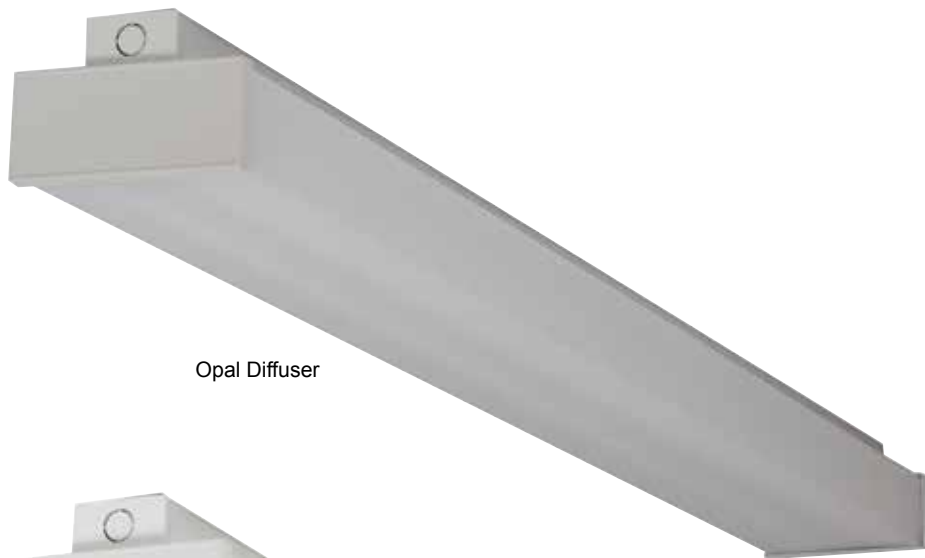
<b>Accessories ASEN1</b>	*PIR Presence Detector (Maximum Rating 2A)
<b>ASEN3</b>	*PIR /Regulating Photocell Detector (Maximum 4 Dimmable Ballasts)
<b>*Presence Detectors for on-site installation via 20mm threaded connection</b>	



CE Ⓢ HF HFDD M3 IP20



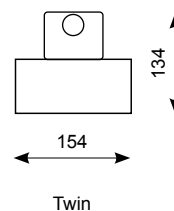
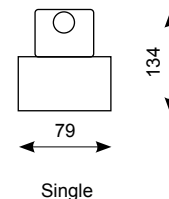
# T8 Fluorescent Batten Accessories



Opal Diffuser



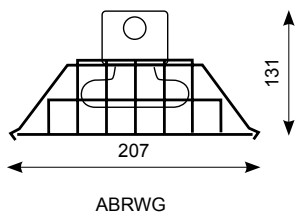
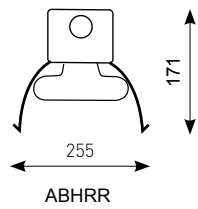
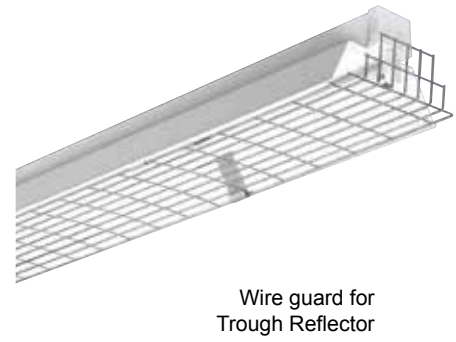
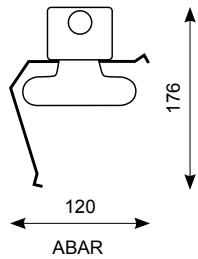
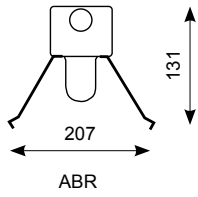
Prismatic Diffuser



	Code	Description
<b>Opal Diffusers</b>	<b>ABOD118</b>	1 x 600mm
	<b>ABOD136</b>	1 x 1200mm
	<b>ABOD158</b>	1 x 1500mm
	<b>ABOD170</b>	1 x 1800mm
	<b>ABOD218</b>	2 x 600mm
	<b>ABOD236</b>	2 x 1200mm
	<b>ABOD258</b>	2 x 1500mm
	<b>ABOD270</b>	2 x 1800mm
	<b>Prismatic Diffusers</b>	<b>ABPD118</b>
<b>ABPD136</b>		1 x 1200mm
<b>ABPD158</b>		1 x 1500mm
<b>ABPD170</b>		1 x 1800mm
<b>ABPD218</b>		2 x 600mm
<b>ABPD236</b>		2 x 1200mm
<b>ABPD258</b>		2 x 1500mm
<b>ABPD270</b>		2 x 1800mm



# T8 Fluorescent Batten Accessories for Single and Twin Fittings



	Code	Description
<b>Trough Reflectors</b>	<b>ABR36</b>	1200mm
	<b>ABR58</b>	1500mm
	<b>ABR70</b>	1800mm
<b>Angled Reflectors</b>	<b>ABAR36</b>	1200mm
	<b>ABAR58</b>	1500mm
	<b>ABAR70</b>	1800mm
<b>High Rack Reflectors</b>	<b>ABHRR58</b>	1500mm
	<b>ABHRR70</b>	1800mm
<b>Wire guards for Trough Reflectors</b>	<b>ABRWG36</b>	1200mm
	<b>ABRWG58</b>	1500mm
	<b>ABRWG70</b>	1800mm



## **Project**

*Pembroke Hall Business Centre - Dublin*



Otto LED

p381



# *Commercial*

10 Product Groups

165 Products

# Commercial

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**381**

*OTTO LED  
Suspended Linear*

**382**

*Brooklyn LED  
Bi-Directional Panel*

**383**

*Gemini LED Surface Linear*

**384**

*Surface/Suspended LED*

**388**

*Recessed LED Panels*

**394**

*Recessed LED  
Panel Accessories*

**395**



*IP65 Defender LED  
Recessed Clean Air*

**396**



*Gridline Duo LED  
Recessed Indirect*

**398**



*Venus LED Recessed  
Indirect*

**399**



*Gridline LED Indirect*



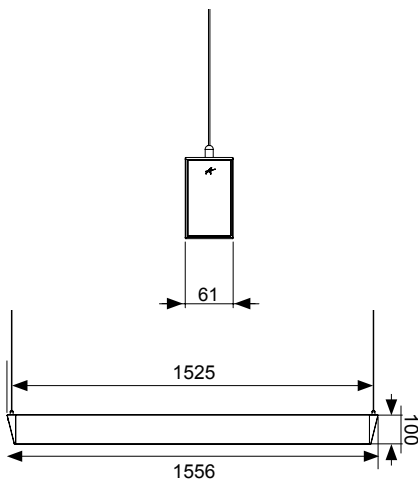
*Designed to*  
***Deliver ...***

# Otto LED Suspended Linear

Supplied c/w Integral Driver and Suspension Kit



- Architectural suspended linear for office, retail and educational applications
- Slim profile finished silver RAL 9006 available in two lumen outputs
- Die-Cast aluminum end caps
- Supplied bi-directional light output as standard (directional only option can be selected if required)
- Suitable for individual or continuous suspension
- Supplied c/w 1.5m suspension kit as standard
- Outperforms 28W and T5 fluorescent equivalent
- LED lifespan LM80 42,000 hours



**OTTO**  
LED Linear



LED Information	Down	Up
<b>Total (Watts)</b>		
AOTLED5	38W	10W
AOTLED2X5	64W	20W
<b>Lumens Delivered</b>		
AOTLED5	2783lm	1187lm
AOTLED2X5	4928lm	2319lm
<b>Lm/W</b>		
AOTLED5	112lm	74lm
AOTLED2X5	116lm	74lm
<b>CRI</b>	Ra 80	
<b>CCT Cool White</b>	4000K	
<b>Input</b>	230V	
<b>Hertz</b>	50/60Hz	
<b>Operating Temp</b>		
AOTLED5	-15°C to 50°C	
AOTLED2X5	-25°C to 50°C	

Code	Lamp	Description
<b>Bi-Directional AOTLED5</b>	LED	48W - Cool White
<b>AOTLED2X5</b>	LED	84W - Cool White

Options	Description
<b>/M3</b>	Self-Test Emergency
<b>/MWS</b>	Integral Microwave Sensor
<b>/MWS/M3</b>	Integral Microwave Sensor Self-Test Emergency
<b>/DD</b>	LED Dimmable (Downward Light Only)
<b>/DD/M3</b>	LED Dimmable Self-Test Emergency
<b>/DD/MWS</b>	LED Dimmable Microwave Sensor
<b>/DD/MWS/M3</b>	LED Dimmable Microwave Sensor Self-Test Emergency

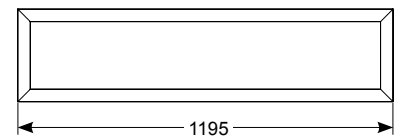
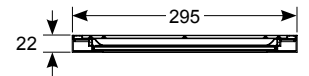


# Brooklyn LED Bi-Directional Panel

Supplied c/w Integral Driver



- High performance bi-directional suspendable LED panel
- Integral LED driver provides a unique aesthetically pleasing design
- Supplied c/w 1.2m suspension kit as standard
- LED lifespan L70 48,000 hours
- 1-10V dimmable as standard



## LED Information

Total (Watts)	36W
Lumens Delivered	4509lm
Lm/W	125lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-10°C to 50°C

Code	Lamp	Description
ABROLED	LED	36W - Cool White





# Gemini LED Linear

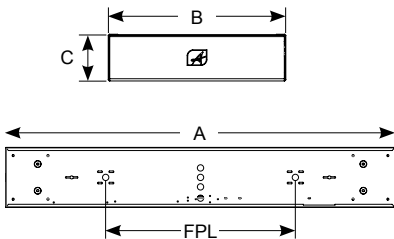
Supplied c/w Integral Driver



- High specification full enclosed linear luminaire
- Optimum glare control provides UGR19 compliance
- Microprism diffuser for excelled photometric performance
- Suitable for surface and suspension
- Ideal for most commercial and educational applications
- LED lifespan  
L70 56,000 hours



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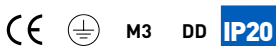
### LED Information

<b>Total (Watts)</b>	41W
	54W
<b>Lumens Delivered</b>	
41W	4450lm
54W	5291lm
<b>Lm/W</b>	
41W	109lm
54W	100lm
<b>CCT Cool White</b>	4000K
<b>Input</b>	230V
<b>Hertz</b>	50/60Hz
<b>Operating Temp</b>	-20°C to 40°C

Code	Lamp	Description	A	B	C	FPL
<b>AGELED2X4</b>	LED	41W	1230	190	55	600
<b>AGELED2X5</b>	LED	54W	1510	190	55	880

Option	Code	Description
	<b>/M3</b>	Emergency
	<b>/DD</b>	LED Dimmable
	<b>/DD/M3</b>	LED Dimmable Emergency

<b>Accessory</b>	<b>ASK1</b>	Suspension Kit
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# Proline LED Surface Linear

Supplied c/w Integral Driver

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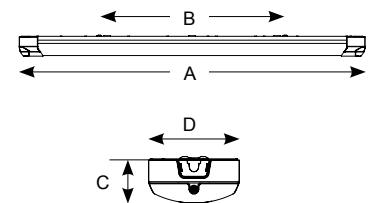
- Modern contemporary fully enclosed high performance surface luminaire
- Optional models for continuous through-wiring installations
- Up to 56% energy savings compared to T8 fluorescent
- Steel powder coated body with reeded opal polycarbonate diffuser and retained end caps
- Low glare and uniform 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

	Code	Lamp	Description	A	B	C	D
<b>Standard</b>	<b>APRLED4</b>	LED	1 x 25W	1220	600	73	148
	<b>APRLED5</b>	LED	1 x 33W	1525	600	73	148
	<b>APRLED6</b>	LED	1 x 43W	1820	600	73	148
	<b>APRLED2X4</b>	LED	1 x 52W	1220	600	73	148
	<b>APRLED2X5</b>	LED	1 x 61W	1525	600 <td 73	148	
	<b>APRLED2X6</b>	LED	1 x 84W	1820	600	73	148

<b>Continuous</b>	<b>APRLED4/TW</b>	LED	1 x 25W	1220	600	73	148
	<b>APRLED5/TW</b>	LED	1 x 33W	1525	600	73	148
	<b>APRLED6/TW</b>	LED	1 x 43W	1820	600	73	148
	<b>APRLED2X4/TW</b>	LED	1 x 52W	1220	600	73	148
	<b>APRLED2X5/TW</b>	LED	1 x 61W	1525	600	73	148
	<b>APRLED2X6/TW</b>	LED	1 x 84W	1820	600	73	148

\*Please note Joiner Piece Connection Cover supplied with all Through Wired Options

Options	Code	Description
	<b>/M3</b>	Self-Test Emergency
	<b>/MWS</b>	Integral Microwave Sensor
	<b>/MWS/M3</b>	Integral Microwave Sensor Self-Test Emergency
	<b>/DD</b>	LED Dimmable
	<b>/DD/M3</b>	LED Dimmable Self-Test Emergency
	<b>/DD/MWS</b>	LED Dimmable Microwave Sensor
	<b>DD/MWS/M3</b>	LED Dimmable Microwave Sensor Self-Test Emergency



## LED Information

Total (Watts)	25W	52W
	33W	61W
	43W	84W
Lumens Delivered	2850lm	5097lm
	3440lm	6090lm
	4600lm	8500lm
Lm/W	114lm	98lm
	104lm	100lm
	107lm	101lm
CRI	Ra 80	
CCT	4000K	
Input	230V	
Hertz	50Hz	
Operating Temp	0°C to 25°C	



- *Push and release end cap for quick access*
- *Connection option via 20mm conduit entry*
- *End cap allen key screw fixing for vandal resistant applications*



**Push Release End Cap**

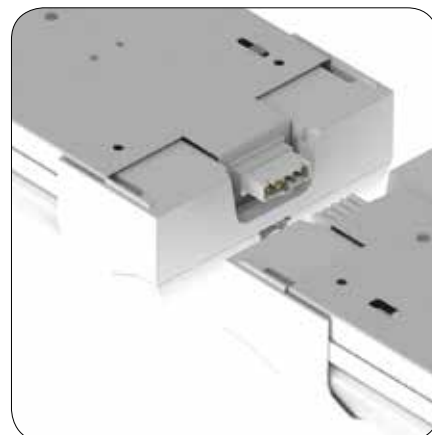


**20mm Conduit Entry Facility**

- *Optional fixing through end cap if required*
- *BESA box fixing as standard*
- *Panel mounted 5-pole plug and socket for continuous mounted option*

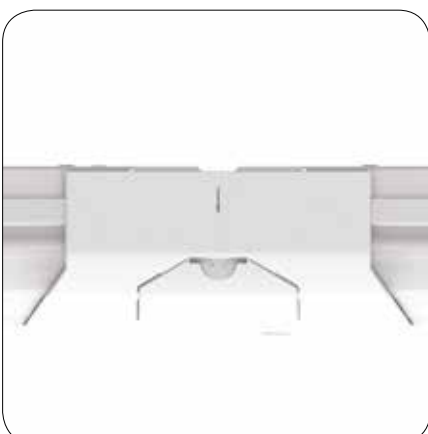


**End Cap Fixing Option**

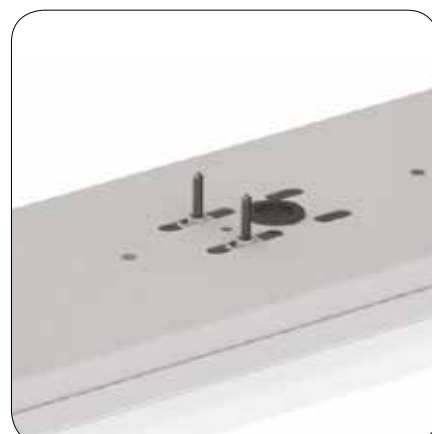


**Plug and Socket Connection for Through Wiring Options**

- *For continuous mounting options, remove standard push release end caps and replace with double joiner end cap connection cover (supplied)*
- *Unique ceiling mounting 'shunt' facility provides installer with flexibility and ease of adjustment when continuous mounting*



**Continuous Mounted Joiner Piece Connection Cover**



**Ceiling Mounting Continuous Fixings**

# Oxford LED Surface Linear

Supplied c/w Integral Driver

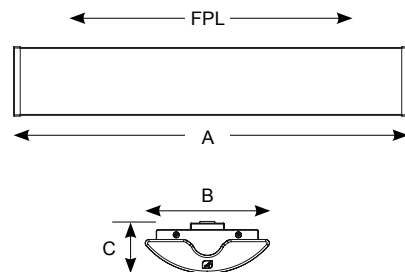
386



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- Modern fully enclosed surface luminaire with curved low profile appearance
- Steel body with polycarbonate diffuser and plastic end caps
- 38.2W exceeds performance of 2x28W T5
- 60W exceeds performance of 2x49W T5
- LED lifespan L70 65,000 hours
- Dimmable options



Code	Lamp	Description	A	B	C	FPL
<b>AOXLED2X4</b>	LED	38.2W - Cool White	1190	165	70	1084
<b>AOXLED2X5</b>	LED	60W - Cool White	1470	165	70	1364

Options	Code	Description
	/M3	Emergency
	/DD	Digital Dimming
	/DD/M3	Emergency Digital Dimming

### LED Information

Total (Watts)	38.2W 60W
Lumens Delivered	
38.2W	4248lm
60W	6552lm
Lm/W 38.2W	111lm
Lm/W 60W	109lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C



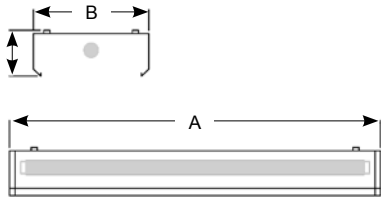
# Patriot T8 Surface Linear c/w VDT (Cat 2) Louvre

Supplied Less Lamp



387

- Range of surface linear luminaires for commercial installations
- Post painted steel construction with moulded end caps and high quality aluminium Louvre



FPL = Fixing Point Length  
FPW = Fixing Point Width

**Linear**



Code	Lamp	Description	A	B	C	FPL	FPW
<b>ANPS236/2/HF</b>	T8	2 x 36W	1255	210	67	1010	95
<b>ANPS258/2/HF</b>	T8	2 x 58W	1555	210	67	1310	95
<b>ANPS270/2/HF</b>	T8	2 x 70W	1820	210	67	1575	95

<b>Options</b>	<b>/M3</b>	Emergency
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# Infinite LED Recessed Panel

Supplied c/w Remote Driver

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

Code	Lamp	Description
<b>AIRMLD/CW</b>	LED	36W - Cool White
<b>AIRMLD/WW</b>	LED	36W - Warm White
<b>Emergency</b> AIRMLD/POD/3NM/ST	LED	5W - Cool White Panel Pod Emergency
<b>Sensor</b> AIRMLD/POD/MWS		1W - Microwave Sensor
<b>Option</b> /DD		Digital Dimming
<b>Accessories</b> AIRMLD/SMF		Surface Mounting Frame (L600mm x W600mm x D75mm)
AIRMLD/PRK		Plasterboard Recessing Kit (Cut-out 608x608mm)
AIRMLD/SK		2 Metre Suspension Kit

- High performance LED flat panel which outperforms Moduni 3x14W T5
- UGR<19 (unified glare rating) compliant luminaire ideal for most interior lighting applications
- Maintenance free instant light output and unlimited switching
- 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 p394 for more information on Panel Pod Emergency and Panel Pod Sensor

## LED Information

Total (Watts)	36W
Lumens Delivered	
Cool White	3300lm
Warm White	3100lm
Lm/W Cool White	81lm
Lm/W Warm White	75lm
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

**Eddie Stobart**  
Carlisle Airport DC



**Project - Eddie Stobart**  
Carlisle, UK

# Endurance LED 600x600 Recessed Panel

Supplied c/w Remote Driver

390



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

Code	Lamp	Description
<b>AERMLED/60/CW</b>	LED	30W - Cool White
<b>AERMLED/60/WW</b>	LED	30W - Warm White
<b>AERMLED/60/DL</b>	LED	30W - Daylight
<b>Emergency</b> <b>AIRMLED/POD/3NM/ST</b>	LED	5W - Cool White
<b>Sensor</b> <b>AIRMLED/POD/MWS</b>		1W - Microwave Sensor
<b>Option</b> <b>/DD</b>		Push to Dim and DALI Digital Dimming
<b>Accessory</b> <b>AIRMLED/SMF</b>		Surface Mounting Frame (L600mm x W600mm x D75mm)
<b>AIRMLED/PRK</b>		Plasterboard Recessing Kit (Cut-out 608x608mm)

- High performance maintenance free LED panel
- 30W panel outperforms 3x14W T5
- Cool white and warm white options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Low glare and even light distribution for multiple applications
- Panel Pod emergency option
- Panel Pod sensor option
- Surface mounting frame option
- LED lifespan L70 40,000 hours

**AERMLED/60 Dimensions (mm)**  
L595 x W595 x H10

See p394 for more information on Panel Pod Emergency and Panel Pod Sensor

## LED Information

<b>Total (Watts)</b>	30W
<b>Lumens Delivered</b>	
Cool White	3001lm
Warm White	2934lm
Daylight	3062lm
Lm/W Cool White	100lm
Lm/W Warm White	98lm
Lm/W Daylight	102lm
<b>CRI</b>	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
CCT Daylight	6000K
<b>Input</b>	230V
<b>Hertz</b>	50Hz
<b>Operating Temp</b>	-10°C to 40°C



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications



# Endurance LED 1200x300 Recessed Panel

Supplied c/w Remote Driver



- High performance maintenance free LED panel
- Cool white and warm white options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Low glare and even light distribution for multiple applications
- Panel Pod emergency option
- Panel Pod sensor option
- LED lifespan  
L70 40,000 hours



**AERMLED/30 Dimensions (mm)**  
L1195 x W295 x H10

See p394 for more information on Panel Pod Emergency and Panel Pod Sensor

## LED Information

Total (Watts)	30W
Lumens Delivered	
Cool White	3030lm
Warm White	2835lm
Daylight	3060lm
Lm/W Cool White	101lm
Lm/W Warm White	95lm
Lm/W Daylight	102lm
CRI	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
CCT Daylight	6000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 40°C



**Panel Pod™  
Emergency**



**Panel Pod™  
Sensor**

	Code	Lamp	Description
	<b>AERMLED/30/CW</b>	LED	30W - Cool White
	<b>AERMLED/30/WW</b>	LED	30W - Warm White
	<b>AERMLED/30/DL</b>	LED	30W - Daylight
<b>Emergency</b>	<b>AIRMLED/POD/3NM/ST</b>	LED	5W - Cool White
<b>Sensor</b>	<b>AIRMLED/POD/MWS</b>		1W - Microwave Sensor



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications



# Endurance LED 1200x600 Recessed Panel

Supplied c/w Remote Driver

392



- High performance maintenance free LED panel
- 60W panel outperforms 3x28W T5
- Cool white and warm white options
- White anodised aluminium frame for visual compatibility with ceiling grid
- Low glare and even light distribution for multiple applications
- Panel Pod emergency option
- Panel Pod sensor option
- LED lifespan L70 40,000 hours

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

See p394 for more information on Panel Pod Emergency and Panel Pod Sensor



## LED Information

Total (Watts)	60W
Lumens Delivered	
Cool White	5245lm
Warm White	5194lm
Daylight	5250lm
Lm/W Cool White	87lm
Lm/W Warm White	87lm
Lm/W Daylight	86lm
CRI	Ra 80
CCT Cool White	4000K
CCT Warm White	3000K
CCT Daylight	6000K
Input	230V
Hertz	50Hz
Operating Temp	-10°C to 40°C

Code	Lamp	Description
<b>AERMLED/120/CW</b>	LED	60W - Cool White
<b>AERMLED/120/WW</b>	LED	60W - Warm White
<b>AERMLED/120/DL</b>	LED	60W - Daylight
<b>Emergency</b> AIRMLED/POD/3NM/ST	LED	5W - Cool White
<b>Sensor</b> AIRMLED/POD/MWS		1W - Microwave Sensor



\* Subject to ceiling/installation types  
\* Not applicable to surface/suspended applications



# Panel Pod Emergency and Panel Pod Sensor

For Infinite and Endurance LED Panels

394



AIRMLED/POD/3NM/ST



**Panel Pod™**  
**Emergency**



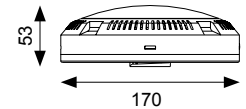
AIRMLED/POD/MWS



**Panel Pod™**  
**Sensor**

## Emergency Panel Pod

- Integral 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
- Total light output of 220lm. 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 Applied For No. 15165652.7**
- **Irish Patent Applied For No. 2015/0128**
- **EC Registered Design No 002712232-0001**

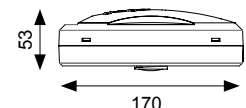


## LED Information

Total (Watts)	5W
Lumens Delivered	220lm
Beam Angle	120°
CCT	6500K
Input	230V
Operating Temp	0°C to 45°C

## Sensor Panel Pod

- Converts Ansell Infinite and Endurance LED panels to microwave sensor operation
- Provides detection area of 360° with a detection angle of 120°
- Simple twist and lock connection
- Pre-wired 300mm 4-core flex for easy installation
- Fast and efficient installation
- Adjustable time delay and distance
- **UK Patent Applied For No. 1504205.4**
- **EC Registered Design No 002712232-0001**



Code	Lamp	Description
<b>Emergency</b> AIRMLED/POD/3NM/ST	LED	5W - Cool White
<b>Sensor</b> AIRMLED/POD/MWS		1W - Microwave Sensor

# Defender LED IP65 Clean Air Recessed Modular

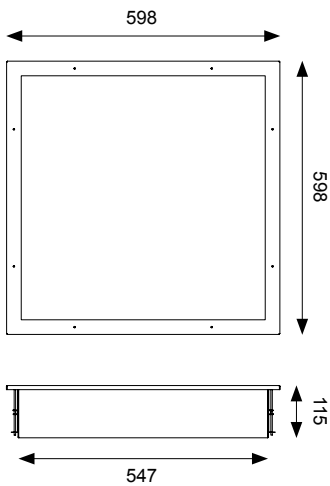
Supplied c/w Integral Driver

- 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



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Easy Fix style bracket

## LED Information

Total (Watts)	48W
Lumens Delivered	4640lm
Lm/W	96lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C

	Code	Lamp	Description
	<b>ADELED</b>	LED	48W - Cool White
<b>Options</b>	<b>/M3</b>		Emergency
	<b>/DD</b>		LED Dimmable
	<b>/DD/M3</b>		LED Dimmable Emergency



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# Gridline Duo LED Indirect Recessed Modular

Supplied c/w Integral Driver, Louvre and Opal Diffuser

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Visiluxe Diffuser Fitted

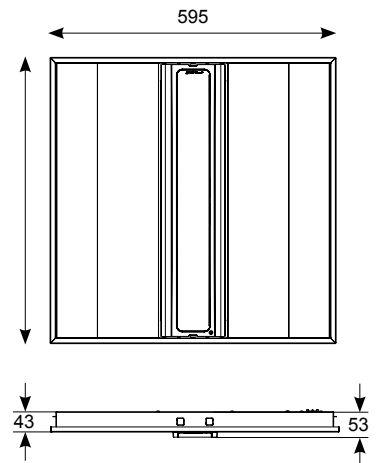
**GRIDLINE™**  
DUO

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Chrome Trim Louvre Fitted

- Shallow 2-In-1 LED direct / indirect recessed luminaire with outstanding efficiency characteristics
- Each fitting supplied with chrome central louvre and high transmission diffuser options (high gloss black or white central louvres available as optional accessories)
- Up to 70% saving compared to 2x55W PL-L
- Quick access termination point for rapid installation
- Instant light output and unlimited switching
- Self-test emergency as standard
- Small unobtrusive microwave sensor option
- CorridorFUNCTION for dimmable microwave sensor options
- LED lifespan L70 56,000 hours



Code	Lamp	Description
<b>AGDLED</b>	LED	37W - Cool White

Options		Description
<b>/M3</b>		Self-Test Emergency
<b>/MWS</b>		Integral Microwave Sensor
<b>/MWS/M3</b>		Integral Microwave Sensor Self-Test Emergency
<b>/DD</b>		LED Dimmable
<b>/DD/M3</b>		LED Dimmable Self-Test Emergency
<b>/DD/MWS</b>		LED Dimmable Microwave Sensor
<b>DD/MWS/M3</b>		LED Dimmable Microwave Sensor Self-Test Emergency

Accessories		Description
<b>AGDLED/WLA</b>		High Gloss White Louvre Trim
<b>AGDLED/BLA</b>		High Gloss Black Louvre Trim
<b>AIRMLD/PRK</b>		Plasterboard Recessing Kit (Cut-out 608x608mm)

### LED Information

Total (Watts)	37W
Lumens Delivered	3300lm
Lm/W	89lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C





- Powder coated, welded mild steel box construction for lay in applications only
- High gloss black and white louvres available as optional accessories



**High Gloss Black Louvre Trim**



**High Gloss White Louvre Trim**

- Easy interchangeable louvre and diffuser
- Discrete LED emergency indicator



**Louvre/Diffuser Interchangeable**



**LED Emergency Indicator Location**

- Quick access termination point for rapid installation



**Quick Access Termination Point**

# Venus LED Indirect

Supplied c/w Integral Driver



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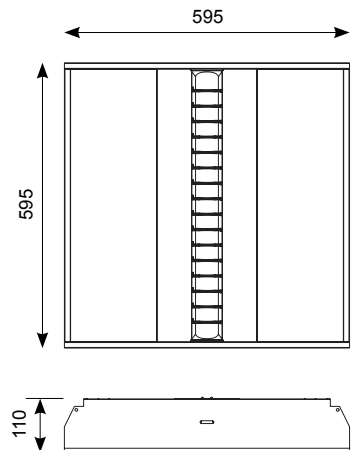
- High performance indirect recessed luminaire with outstanding efficiency characteristics
- Comparable performance to 3x14W T5
- Instant light output and unlimited switching
- Quick access terminal point for ease of installation
- Powder coated welded steel box construction for lay in applications only
- LED lifespan L70 95,000 hours



**Quick Access Termination Point (Push Fit Terminals)**



**Mirrored Internal Reflector For Enhanced Distribution**



Code	Lamp	Description
<b>AVENLED</b>	LED	45W - Cool White
<b>Options</b>	<b>/M3</b>	Emergency
	<b>/DD</b>	Digital Dimming
	<b>/DD/M3</b>	Emergency Digital Dimming

### LED Information

Total (Watts)	45W
Lumens Delivered	3446lm
Lm/W	77lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50/60Hz
Operating Temp	-20°C to 50°C





# Gridline LED Indirect

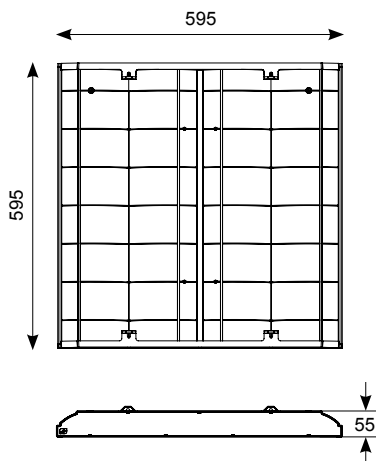
Supplied c/w Integral Driver



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- Shallow indirect recessed luminaire with outstanding efficiency characteristics and minimal glare
- Up to 68% saving compared to 2x55W PL-L
- Small unobtrusive microwave sensor options
- CorridorFUNCTION for dimmable microwave sensor option
- LED lifespan L70 56,000 hours

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### LED Information

Total (Watts)	40W
Lumens Delivered	3191lm
Lm/W	80lm
CRI	Ra 80
CCT	4000K
Input	230V
Hertz	50Hz
Operating Temp	0°C to 25°C

Code	Lamp	Description
<b>AINLED</b>	LED	40W - Cool White

Options	Description
<b>/M3</b>	Emergency
<b>/MWS</b>	Integral Microwave Sensor
<b>/MWS/M3</b>	Integral Microwave Sensor Emergency
<b>/DD</b>	LED Dimmable
<b>/DD/M3</b>	LED Dimmable Emergency
<b>/DD/MWS</b>	LED Dimmable Microwave Sensor
<b>/DD/MWS/M3</b>	LED Dimmable Microwave Sensor Emergency

<b>Accessories</b>	<b>AIRMLD/PRK</b>	Plasterboard Recessing Kit (Cut-out 608x608mm)
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## Project

The Liquor Store - Manchester



Eagle 3-in-1 LED p416



Owl LED p419



# Emergency

8 Product Groups

56 Products

# Emergency

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405



*IP65 Bulkhead*

412



*Exit Boxes*

416



*Suspended Edge*

417



*IP65 Surface Edge*

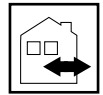




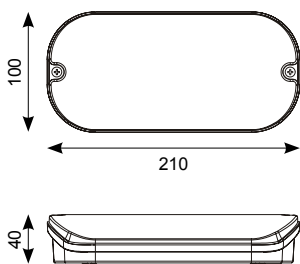
*Designed to*  
**Deliver...**

# Swift LED Bulkhead

Supplied c/w Legend and Integral Driver



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



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	2.9	6.8	1.9	3.8
4	2.6	7.4	1.9	3.8
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3	6.7	2	4.8
4	3	8	2.7	6
6	3	6	3	6

### LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	94lm
Standard Mode	147lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

Code	Lamp	Description
<b>ASWTLED/3M</b>	LED	3W Maintained / Non-Maintained

<b>Accessory</b>	<b>ASBP/1</b>	3.6V 600mAh Ni-Cd Replacement Battery
------------------	---------------	---------------------------------------



# Guardian LED Bulkhead

Supplied c/w Legend and Integral Driver

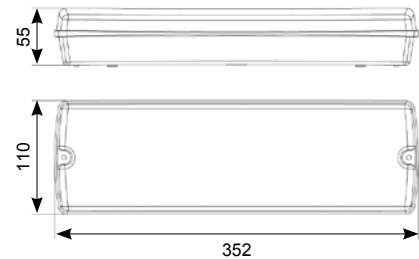
406



- Ultra-slim profile LED polycarbonate bulkhead
- Supplied with self-adhesive legend
- Side and rear cable entries
- Hinged screwless gear tray for ease of installation
- Viewing distance 18 metres



AGLED/KIT  
With Guardian Installed



***	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	3.2	6.2	1.9	3.8
	4	3.6	7.3	1.9	4.2
	6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **				
	Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
	2.5	2.9	6	2.2	4.5
	4	3	6.1	2.4	4.8
	6	3	6	3	6

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

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

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

Code	Lamp	Description
AGLED/3M	LED	3W Maintained / Non-Maintained
<b>Accessories</b>	<b>AGLED/KIT</b>	Semi-Recessing Kit - White
	<b>ASBP/2</b>	3.6V 1500mAh Replacement Ni-Cd Battery

## LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	119lm
Standard Mode	160lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°







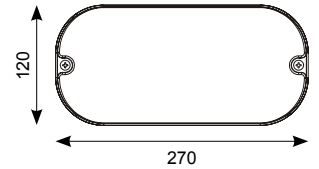
# Kite LED Emergency Bulkhead

Supplied with Legend and Integral Driver

408



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



***	Escape route 2 metres wide (1 Lux minimum) *				
	Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
	2.5	3.4	6	3.2	7.2
	4	3.5	8.8	3	8
	6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **				
	Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
	2.5	3.5	6.5	2.6	7
	4	3.6	8	3.2	8.6

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

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

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

## LED Information

Total (W)	3W
Lumens Delivered	
Emergency Mode	68lm
Standard Mode	123lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

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

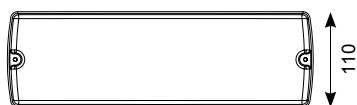
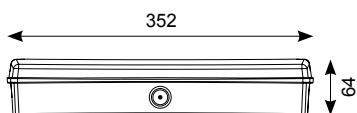


# Centurion LED Bulkhead

Supplied c/w Legend and Integral Driver



- High lumen performance LED polycarbonate bulkhead for increased spacings
- Supplied with self-adhesive legend
- Self-test as standard
- Outperforms 8W T5 and exceeds performance of Guardian by 56%
- 20mm conduit entry positions and rear terminal box entry
- Hinged screwless gear tray for ease of installation
- Viewing distance 18 metres
- 50,000 hours average lifetime



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

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

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



***	Escape route 2 metres wide (1 Lux minimum) *				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	3.65	7.4	3.4	7.2	
4	3.65	7.75	3.5	7.5	
6	-	-	-	-	

***	Open (Anti-Panic) area (0.5 Lux Minimum) **				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
2.5	3.5	7.2	3.4	6.8	
4	4.6	8.8	3.3	6.9	
6	5	10.2	3.6	7.3	

## LED Information

Total (W)	6W
Lumens Delivered	
Emergency Mode	150lm
Standard Mode	229lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

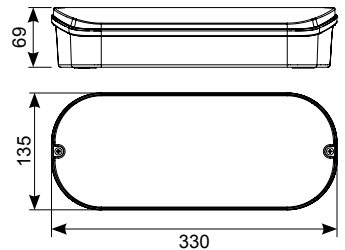
	Code	Lamp	Description
<b>Self-Test</b>	<b>ACELED/3M/ST</b>	LED	6W Maintained / Non-Maintained
<b>Accessory</b>	<b>ASBP/2</b>		3.6V 1500mAh Ni-Cd Replacement Battery



# Osprey High Rack LED Bulkhead

Supplied c/w Integral Driver

410



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

	Escape route 2 metres wide (1 Lux minimum) *				
	***				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
AOSLED/3M	10	-	-	6.75	17
AOSLED/3M/CS	15	-	-	2	12
	10	-	-	6	17
	15	-	-	1.5	10.4

	Open (Anti-Panic) area (0.5 Lux Minimum) **				
	***				
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial	
AOSLED/3M	10	5	13	5	20.5
AOSLED/3M/CS	15	5	14.25	4	24.7
	10	4	13	4.9	20.7
	15	3.1	14.25	5.1	24.5

## LED Information

Total (W)	10.5W
Cold Store	22W
<b>Lumens Delivered</b>	
Emergency Mode	254lm
Standard Mode	559lm
<b>Lumens Delivered Cold Store</b>	
Emergency Mode	238lm
Standard Mode	552lm
CCT	6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	0°C to 40°C
Cold Store	-30°C to 5°C

	Code	Lamp	Description
	<b>AOSLED/3M</b>	LED	10.5W Maintained / Non-Maintained
<b>Cold Store</b>	<b>AOSLED/3M/CS</b>	LED	22W Maintained / Non-Maintained

<b>Accessories</b>	<b>ASBP/15</b>	3.6V 4Ah Ni-Cd Replacement Battery
	<b>ASBP/16</b>	3.6V 4Ah Ni-Cd Replacement Battery (for use with Cold Store fitting)

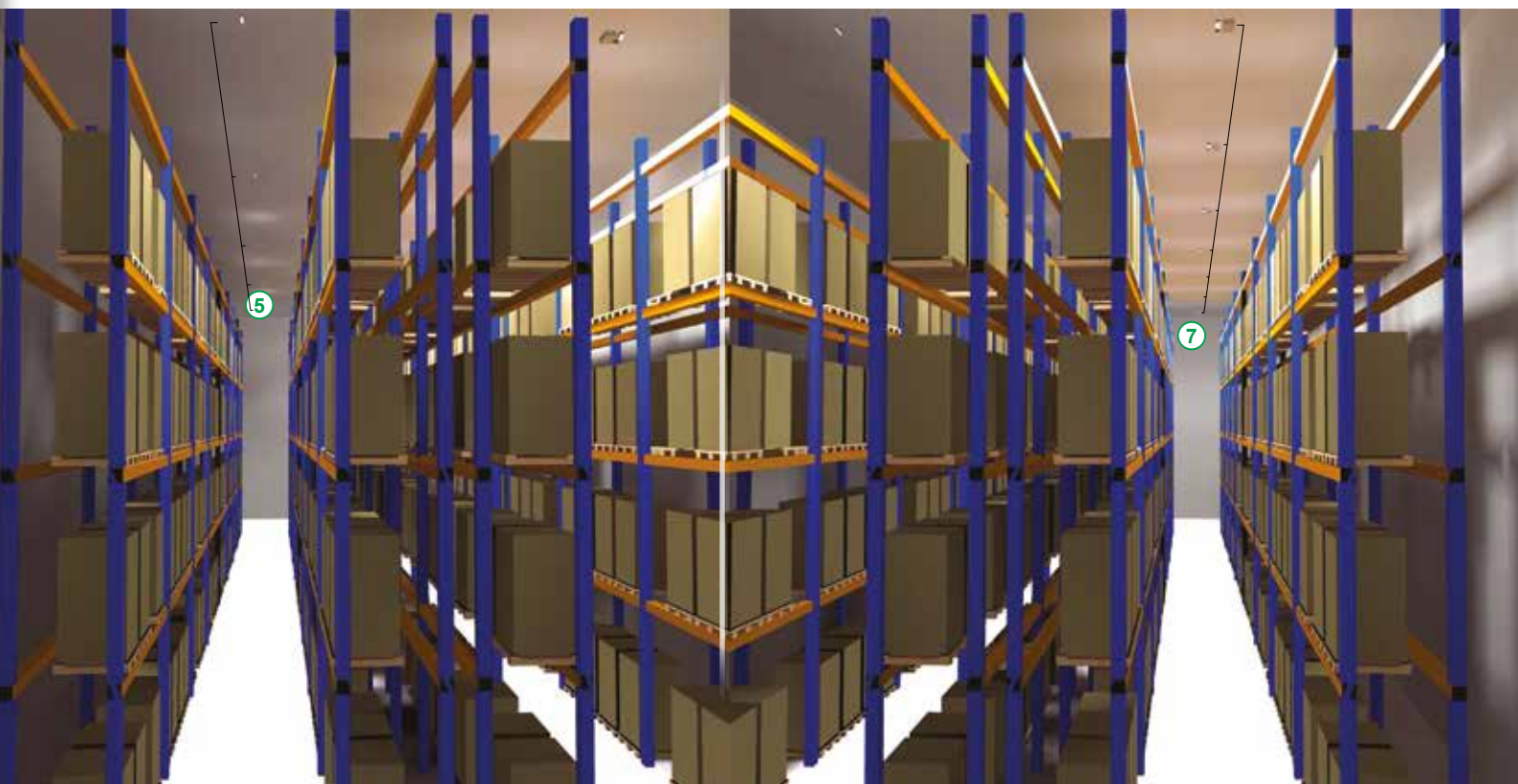


# Osprey LED

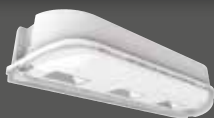


## High Rack Bulkhead vs. Traditional Halogen Twinspace

Warehouse racking aisle scheme (15 metre ceiling height and 2m aisle width)



**Osprey LED 10.5W**  
5 fittings to reach required lux level



**Halogen Twinspace 2x20W**  
7 fittings to reach required lux level



- ✔ Quick and easy installation
- ✔ Self-Test as standard
- ✔ Maintenance free
- ✔ Better spacing ratio for less fittings

# Encore LED Exit Sign

Supplied c/w Legends and Integral Driver

412

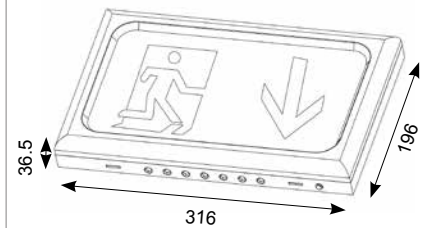


AENLED/3M/W



AENLED/3M/SG

- 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



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

### LED Information

Total (W)	2.6W
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°





**Project - Harveys Restaurant**  
Rhuddlan, UK

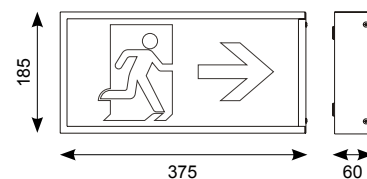
# Watchman LED Exit Sign

Supplied c/w Legend and Integral Driver

414



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



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

### LED Information

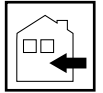
Total (W)	3W
CCT	6000K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°





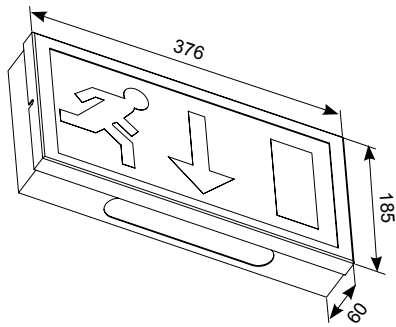
# Guardzman Exit Sign

Supplied c/w Lamp and Legend



415

- White steel exit box sign with legend
- Viewing distance 37 metres



AG8/3M

	Code	Lamp	Description
	<b>AG8/3M</b>	T5	8W Maintained / Non-Maintained - White
<b>Legends</b>	<b>AG8/L/AD</b>		Legend - Arrow Down
	<b>AG8/L/AR</b>		Legend - Arrow Right
	<b>AG8/L/AL</b>		Legend - Arrow Left
	<b>AG8/L/AU</b>		Legend - Arrow Up



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



# Eagle 3-In-1 LED Exit Sign

Supplied c/w Integral Driver and Legend

416



AE3LED/3M/SI  
Semi Recessed

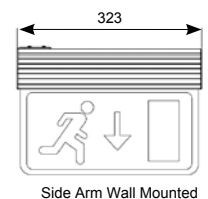
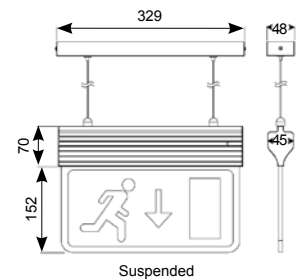
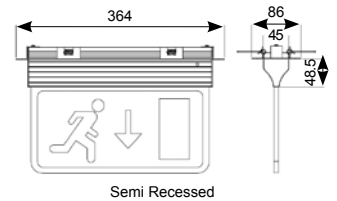


AE3LED/3M/W  
Suspended



AE3LED/3M/W  
Side Arm Wall Mounted

- Modern, slim, 3-In-1 LED Exit Sign
- Self-test option
- One fitting that enables choice of three different mounting options :- suspension, recessed or side arm wall mounting
- Viewing distance 25 Metres



	Code	Lamp	Description
<b>Standard</b>	AE3LED/3M/W	LED	2.5W Maintained/Non-Maintained - White
	AE3LED/3M/SI	LED	2.5W Maintained/Non-Maintained - Silver
<b>Self-Test</b>	AE3LED/3M/W/ST	LED	2.5W Maintained/Non-Maintained - White
<b>Legends</b>	AE3LED/ALAR		Double Sided Legend - Arrow Left and Right
	AE3LED/L/AD		Double Sided Legend - Arrow Down
	AE3LED/L/AU		Double Sided Legend - Arrow Up
<b>Battery</b>	ASBP/4		3.6V 800mAh Replacement Ni-Cd Battery

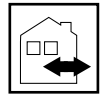
## LED Information

Total (W)	2.5W
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

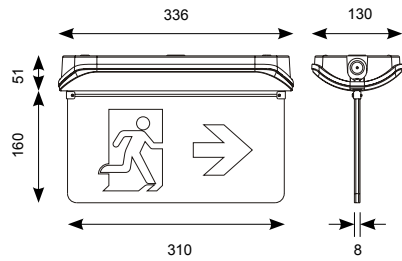


# Harrier LED IP65 Blade Exit Sign

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
- High output LED performance and distribution allows maximum spacing providing reduced cost
- Viewing distance 25 metres



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing



## LED Information

Total (W)	6W
Lumens Delivered	
Emergency Mode	120lm
Standard Mode	299lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

	Code	Lamp	Description
<b>Self-Test</b>	<b>AHARLED/3M/ST</b>	LED	6W Maintained/Non-Maintained
<b>Legends</b>	<b>AHARLED/ALAR</b>		Harrier LED Double Sided Legend - Arrow Left and Right
	<b>AHARLED/L/AD</b>		Harrier LED Double Sided Legend - Arrow Down
	<b>AHARLED/L/AU</b>		Harrier LED Double Sided Legend - Arrow Up
<b>Battery</b>	<b>ASBP/5</b>	7.2V 1500mAh Ni-Cd	Replacement Battery





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

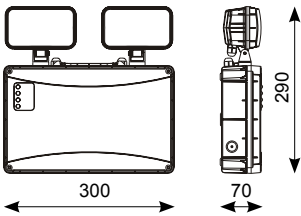
# IP65 Owl LED Twin Spot

Supplied c/w Integral Driver



419

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



## LED Information

Total (W)	5W
Lumens Delivered	488lm
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

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



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



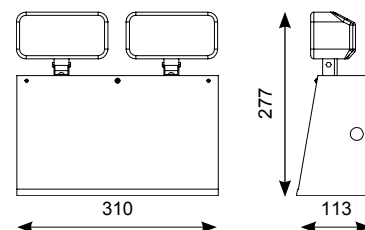
# LED Twin Spot

Supplied c/w Integral Driver

420



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



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

**Accessory** **ASBP/7** 3.6V 4Ah Ni-Cd Replacement Battery

### LED Information

Total (W)	3W
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

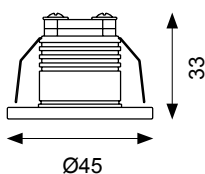


# Signal LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack



- Economic and compact LED Non-Maintained fixed downlight
- White powder coat paint finish
- LED combines power and green charge indicator
- 3 hour emergency output
- 120° beam angle



- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)	3.3	6.5	3.3	6.5
2.5	3.3	6.5	3.3	6.5
4	3.1	8.3	3.1	8.3
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)	3.1	6.7	3.1	6.7
2.5	3.1	6.7	3.1	6.7
4	3.4	8.6	3.4	8.6
6	3	9	3	9

## LED Information

Total (Watts)	1.5W
Lumens Delivered	
Emergency Mode	124lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 45°C

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

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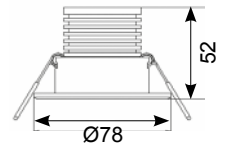
# Beacon LED Emergency Adjustable Downlight

Supplied c/w Remote Driver and Battery Pack

422



- LED Non-Maintained adjustable die-cast aluminium downlight
- 3 hour emergency output
- Power and green charge LED are discreetly incorporated within the head
- 120° beam angle



***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.3	6.5	3.3	6.5
4	3.1	8.3	3.1	8.3
6	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.1	6.7	3.1	6.7
4	3.4	8.6	3.4	8.6
6	3.5	10	3.5	10

- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

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

## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	136lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 45°C



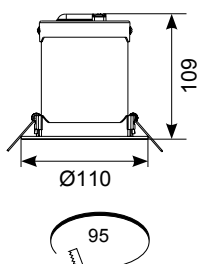


# Raven LED Emergency Downlight

Supplied c/w Integral Driver and Battery Pack



- 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



Emergency downlight with integral inverter and battery pack



Escape Route



Open Area

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

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

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

**Transverse - Wall**

Distance to wall from side of fitting

**Transverse - Transverse**

Side to side spacing

**Axial - Wall**

Distance to wall from end of fitting

**Axial - Axial**

End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.5	8	3.5	8
4	3.5	8.5	3.5	8.5
**	**	**	**	**

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.3	7	3.3	7
4	3.5	8.8	3.5	8.8
6	3.5	9.5	3.5	9.5

## LED Information

Total (Watts)	3W
Lumens Delivered	
Emergency Mode	
Open Area	176lm
Escape Route	224lm
Beam Angle	
Open Area	49.3°
Escape Route	62.4°
CCT	6500K
Input	220/240V
Hertz	50/60Hz
Operating Temp	0C° to 40C°

	Code	Lamp	Description
<b>Self-Test</b>	<b>ARALED/ER/3NM/ST</b>	LED	3W Non-Maintained - Escape Route
	<b>ARALED/OA/3NM/ST</b>	LED	3W Non-Maintained - Open Area
<b>Accessory</b>	<b>ASBP/14</b>		3.7V 2.6Ah Li-ION Replacement Battery



# Merlin LED Emergency Downlight

Supplied c/w Remote Driver and Battery Pack

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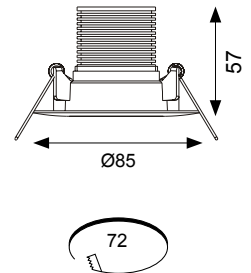


Escape Route



Open Area

- 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 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room

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

***	Escape route 2 metres wide (1 Lux minimum) *			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)	6	14.2	6	14.2
2.5	8	19.5	8	19.5
4	-	-	-	-
6				

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
Mounting Height (M)	2.7	6.9	2.7	6.9
2.5	4	10	4	10
4	4.5	10	4.5	10
6				

## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	
Open Area	277lm
Escape Route	227lm
Beam Angle	
Open Area	108°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0°C to 45°C

	Code	Lamp	Description
<b>Self-Test</b>	AMELED/ER/3NM/ST	LED	5W Non-Maintained - Escape Route
	AMELED/OA/3NM/ST	LED	5W Non-Maintained - Open Area
<b>Accessory</b>	ASBP/9	3.6V 4.5Ah Ni-Cd Replacement Battery	

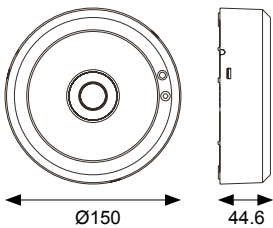


# Falcon LED Surface Emergency Downlight

Supplied c/w Integral Driver and Battery Pack



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



Escape Route



Open Area

- \* 1 lux minimum must be used for all marked emergency escape routes, to be measured down the centre line of the escape route itself
- \*\* 0.5 lux minimum must be used for areas larger than 60m<sup>2</sup>, the maximum value is to be measured across the area excluding 0.5 metre border around the edge of the room
- \*\*\* Explanation of the symbols:-  
**Transverse - Wall**  
 Distance to wall from side of fitting  
**Transverse - Transverse**  
 Side to side spacing  
**Axial - Wall**  
 Distance to wall from end of fitting  
**Axial - Axial**  
 End to end spacing

***	Escape route 2 metres wide (1 Lux minimum) *			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	-	-	6	12
4	-	-	7.8	16.8
-	-	-	-	-

***	Open (Anti-Panic) area (0.5 Lux Minimum) **			
Mounting Height (M)	Transverse to Wall	Transverse to Transverse	Axial to Wall	Axial to Axial
2.5	3.3	7.4	3.3	7.4
4	3.9	9	3.9	9
6	4	9.5	4	9.5

## LED Information

Total (Watts)	5W
Lumens Delivered	
Emergency Mode	
Open Area	152lm
Escape Route	140lm
Beam Angle	
Open Area	108°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°

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

<b>Accessory</b>	<b>ASBP/10</b>	3.6V 3Ah Ni-Cd Replacement Battery
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# LED Panel Pod Emergency for Infinite and Endurance LED Panels

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Top Housing View

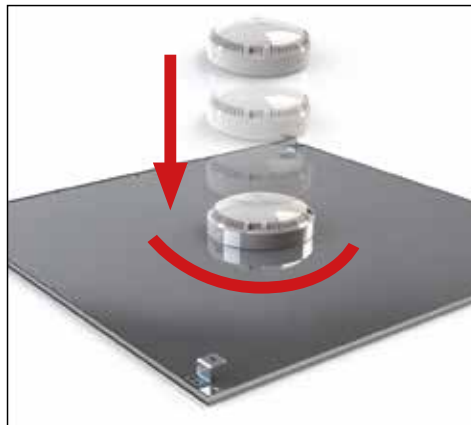


Bottom Housing View showing Emergency LED



## STEP 1

Unscrew coin plug from back of Ansell Infinite LED Panel

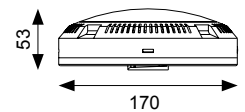


## STEP 2

Locate and twist Panel Pod into position. Connect incoming supply to pre-leaded cable

	Code	Lamp	Description
<b>Self-Test</b>	<b>AIRMLD/POD/3NM/ST</b>	LED	5W - Cool White
<b>Accessory</b>	<b>ASBP/11</b>	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
- Total light output of 220lm. 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 Applied For No. 15165652.7**
- **Irish Patent Applied For No. 2015/0128**
- **EC Registered Design No 002712232-0001**



## LED Information

Total (Watts)	5W
Lumens Delivered	220lm
Beam Angle	120°
CCT	6500K
Input	230V
Hertz	50/60Hz
Operating Temp	0C° to 45C°



# LED/CFL Emergency Lighting Pack

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

**GU10 LED Lamps**

Minimum: 3W  
Maximum: 8W

**GU10 CFL Lamps**

Minimum: 11W  
Maximum: 14W

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



ACFLP/3

# Low Voltage Emergency Lighting Pack

- 60mm cut-out aperture
- Will provide 1 hour duration on 50W lamp and 3 hours duration on 20W lamp
- For use with halogen light sources only



ALVP/3M



Code	Description
ACFLP/3	Maintained / Non-Maintained - CFL/LED
ALVP/3M	Maintained - Low Voltage



# Technical A-Z

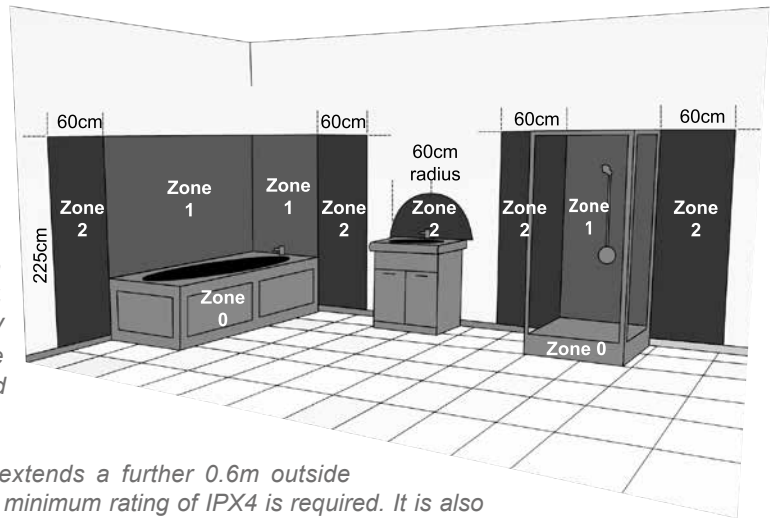
<b>AC Alternating Current</b>	<i>Alternating Current. The movement or flow of electric charge that periodically changes direction. AC current is the format that electricity is supplied in.</i>
<b>Accent Lighting</b>	<i>A synonym for display or highlighting.</i>
<b>Air-Handling</b>	<i>A type of recessed modular that can be used to either supply air (heating or air conditioning) to a room, remove air from a room, or do both. The air-handling capability is expressed in litres per second. Grade (from American Iron and Steel Institute) of Stainless Steel used in Collezione Italiana products.</i>
	<i>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)</i>
<b>Aluminium Reflector Lamp</b>	<i>Designed and manufactured to filter the majority of generated heat forwards, in the direction of the emitted light.</i>
<b>Ambient Lighting</b>	<i>The level of background light, usually low and supplemented by Task or Accent lighting.</i>
<b>Ambient Temperature</b>	<i>Surrounding - the ambient temperature is the temperature of the air that surrounds the fixture in the room. A critical criterion for fixture selection especially in extreme temperature environments. Ansell interior luminaires are rated for use in ambient temperatures up to 25c unless otherwise stated.</i>
<b>Analogue Dimming 1-10V</b>	<p><i>This ballast requires an analogue (1-10V) signal from an external source to instruct the ballast dim. The ballast within the luminaire will provide the required output dependent upon the 1-10V signal received from the external source which operates the ballast accordingly.</i></p> <p><i>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.</i></p> <p><i>Each luminaire requires a 3 core mains supply (L E N) and an additional 1-10V signal cable, normally a 2 core 0.75mm<sup>2</sup> flexible cable. This is looped around any luminaires to be dimmed together (check with the Dimming Controller supplier as there are a maximum number of ballasts which can be connected together, dependent upon lamp type and wattage). An additional unswitched live is required if the luminaire incorporates emergency control gear.</i></p>
<b>Anti-Ligature</b>	<i>This is a luminaire that is free from points where a cord could be fastened to create a ligature point. If a fitting is classed as Anti-Ligature the ligature risk is eliminated by designing it in such a way that it is not possible for a cordlike object to be looped or tied around it.</i>
<b>ASSCK</b>	<i>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.</i>
<b>Asymmetric Distribution</b>	<i>Non-symmetric distribution of light. In many cases, the luminous intensity (light output) may be more pronounced in one direction. Commonly found on floodlights to allow them to be aimed downwards, keeping unwanted upward light spillage to a minimum.</i>
<b>Average Rated Life</b>	<i>A value given to the light source, typically lamp manufacturers' quote a figure in hours at which 50% of lamps are surviving.</i>
<b>Azimuth</b>	<i>The orientation angle in the horizontal plane, commonly referred to in floodlighting schemes.</i>

## Bathroom Zones

Bathroom luminaire installations must comply with legislation. Please see section 701 of BS EN 7671:2008 (17th Edition Wiring Regulations)

**Zone 0** – This is inside the bath or shower. Any fitting used in these areas must be SELV and IPX8

**Zone 1** – This is the area above the bath to a height of 2.25m from the floor. In this zone a minimum rating of IPX4 is required. If a 230V luminaire is used, the circuit must be protected by a 30mA RCD.






**Zone 2** – This area extends a further 0.6m outside Zone 1. In this zone a minimum rating of IPX4 is required. It is also recommended to have luminaires with a rating of IPX4 around the wash basin (with 0.6m radius of the tap).

**Outside Zones** - Anywhere outside Zones 0, 1 and 2 are classed as outside zones (excluding specific areas) providing water jets are not used, so the minimum rating is IPX0. If water jets are to be used a minimum of IPX5 is required. Full details can be found in the IEE Wiring Regulations.

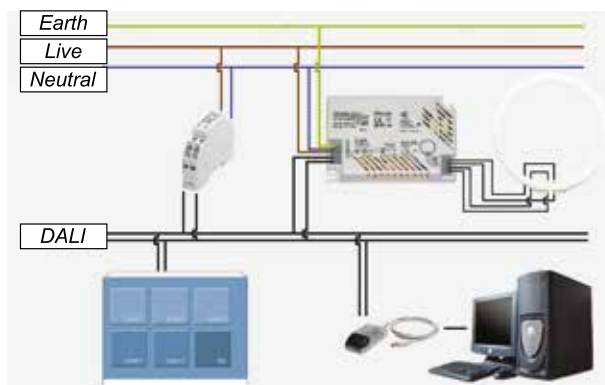
\*Note – The area under the bath is classed as an outside zone providing there is a bath panel in situ which can only be removed with aid of a tool.

<b>Ballast</b>	A device used to operate fluorescent and HID lamps. The ballast, while limiting and regulating the lamp current during operation, provides the necessary voltage to the lamp.
<b>Ballast Losses</b>	Power, which is supplied to ballast but is not converted into lamp energy. Ballast loss is dissipated as heat. There are strict guidelines to ensure only efficient ballasts are used, to avoid unnecessary energy consumption.
<b>Ballast Lumen Factor (BLF)</b>	The ballast lumen factor (BLF) is the ratio of the light output of the lamp when operated under emergency lighting conditions compared to normal mains supply. Typically this figure will be below 0.1 (10%) and per lamp operated on emergency control gear.
<b>BC</b>	Bayonet Cap lampholder/lamp cap.
<b>Beam Angle</b>	Somewhat misleading angle of light spread, to which the intensity has fallen of to 50% of the peak value.
<b>Binning (LED)</b>	Binning is the process of methodically sorting and grouping LED's according to some measured parameter or set of parameters. This allows design engineers to systematically specify an LED and it allows the manufacturer to order LED's that function consistently like the specified part. Binning also makes it possible to re-order LED's that match the original.
<b>Brightness</b>	What the eye actually sees. Not to be confused with luminance, which is what a lightmeter, reads.

<b>BSI</b>	<i>British Standards Institute. The UK National Standards Body - <a href="http://www.bsigroup.com">www.bsigroup.com</a></i>
	<p><b>Key Standards applicable include</b></p> <p><i>BS 476 part 21 Fire test for building Materials (i-Cage Range)</i></p> <p><i>BS 5225 Photometric Data for Luminaires</i></p> <p><i>BS 5266 Code of practice for Emergency Lighting</i></p> <p><i>BS7671 Requirements for Electrical Installations (Wiring Regulations)</i></p> <p><i>BS EN 60570 Track systems for Luminaires</i></p> <p><i>BS EN 60598-1 Luminaires - General requirements and tests</i></p> <p><i>BS EN 60598-2-2 Luminaires – Specific requirements, Recessed Luminaires</i></p> <p><i>BS EN 60598-2-5 Luminaires – Specific requirements, Floodlights</i></p> <p><i>BS EN 60598-2-6 Luminaires – Specific requirements, In-built Transformers</i></p> <p><i>BS EN 60598-2-22 Luminaires - Specific requirements, Emergency Lighting</i></p> <p><i>BS EN 61047 Electronic Transformers</i></p>
<b>Building Regulations</b>	<i>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.</i>
<b>Burning Position</b>	<i>All HID lamps have a rated burning position, meaning they will only operate correctly in that orientation. All Ansell luminaires supplied with HID lamps, have a correctly rated lamp for the typical function of the luminaire. For installations where a luminaire may be used unconventionally, lamp suitability should be checked.</i>
<b>Candela (CD)</b>	<i>The SI unit of luminous intensity. The intensity of a light source in a Specific direction.</i>
<b>Capsule Lamp</b>	<i>A small extra low voltage lamp that normally fits into a luminaire with its own reflector.</i>
<b>Capacitor</b>	<i>Component that stores electrical energy. Often used for power factor correction and lamp regulation.</i>
<b>CCT</b>	<i>See Colour Temperature</i>
<b>CE</b>	<i>European Community conformity mark. This denotes that the item conforms with the requirements of relevant EU Directives</i>
<b>CELMA</b>	<i>Federation of National Manufactures for Luminaires and Electrotechnical Components for Luminaires. A powerful European body committed to improving standards, particularly 'Green issues' within the lighting industry. <a href="http://www.celma.org">www.celma.org</a></i>
<b>CFL</b>	<i>See Compact Fluorescent Lamp.</i>
<b>CIBSE</b>	<i>The Chartered Institute of Building Service Engineers. The Society of Light and Lighting, a division of CIBSE, publishes many Lighting Guides, widely used as references for the choice of luminaire and recommended Illuminance level most suitable for a specific area. <a href="http://www.cibse.org">www.cibse.org</a></i>
<b>Class I</b> 	<i>Luminaires in this class are electrically insulated and provided with connection with earth.</i>
<b>Class II</b> 	<i>These types of 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.</i>
<b>Class III</b> 	<i>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).</i>



<b>CS</b>	<i>Cold Store version. A luminaire, normally the Ansell ADP range can be supplied as an option equipped with control gear to allow operation in Cold Store Areas down to -30c. Emergency versions are not available due to the effect of temperature on the battery cells, hindering the ability to hold a charge.</i>
<b>Cold Lumens (LED)</b>	<i>Please see "Hot Lumens"</i>
<b>Colour Appearance</b>	<i>General expression for the impression when looking at a light source eg. Warm or Cool.</i>
<b>Colour Rendering ( Ra)</b>	<i>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.</i>
<b>Colour Rendering Index (CRI)</b>	<i>Measurement of the degree to which the colours of surfaces illuminated by a given light source conform to the same surfaces under a reference source. CRI (also sometimes shown as Ra) is expressed as a number where 100 indicates that there is no colour shift as under natural light. Typically High Pressure Sodium lamps would be approximately Ra=25, Metal Halide Lamps Ra=65, Triphosphor Fluorescent lamps Ra=80+</i>
<b>Colour Temperature (Light sources)</b>	<i>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 &gt;3000 °K, White/Intermediate =3500 °K and Cool White &lt;4000 °K</i>
<b>Compact Fluorescent</b>	<i>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.</i>
<b>Cool Beam Lamp</b>	<i>A lamp designed to filter heat backwards, such as dichroic reflector lamps.</i>
<b>Corona</b>	<i>A band/ring of light around an object also commonly referred to as a Halo effect.</i>
<b>Corridor Function</b>	<i>Corridor Function is a setting of HFDD Dimmable control gear for operation with a PIR (standard on/off). Dimmable ballasts reduces light output to 3-5% when the area is unoccupied and increases to full light output when PIR is activated.</i>
<b>Cos <math>\phi</math></b>	<i>Cos <math>\phi</math> is the expression of the power factor. Most high power factor luminaire have a figure &gt;0.85, with Electronic High Frequency &gt;0.90-0.95. A low power factor luminaire can have significantly more current draw in the circuit, resulting in larger capacity cables and switching required.</i>
<b>DALI</b>	<p><i>Digital Addressable Lighting Interface.</i></p> <p><i>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.</i></p> <p><i>The DALI system offers 64 individual addresses, 16 group addresses and the ability to program each ballast with up to 16 scenes.</i></p>

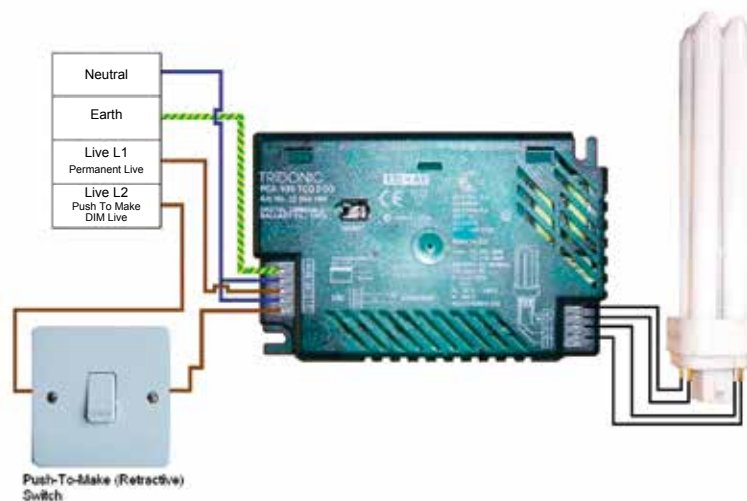


<b>Data Sheets</b>	Are available for Ansell products to enable Operation and Maintenance manuals to be completed. These can be obtained via <a href="http://www.anselluk.com">www.anselluk.com</a> , Ansell Sales Offices and Sales Personnel.
<b>DC Direct Current</b>	DC (direct current) is the unidirectional flow or movement of electric charge carriers (which are usually electrons). The intensity of the current can vary with time, but the general direction of movement stays the same at all times. As an adjective, the term DC is used in reference to voltage whose polarity never reverses.
<b>Dichroic Reflector</b>	Dichroic reflector lamps are lamps that reflect light forwards despite the fact that the heat is transmitted backwards through the rear of the lamp.
<b>Dimmers &amp; Dimming</b>	The process by which lamps are dimmed from 100% to a minimum level that is not always zero. It is not possible to dim switch start or other standard fluorescent luminaires, which have conventional control gear. Luminaires that are required to be dimmed will need special control gear for this operation and typically additional circuit wiring.
<b>Direct Lighting</b>	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.
<b>Directional Lighting</b>	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.
<b>Disability Glare</b>	Glare from, for example, facing a spotlight or bright sunlit window that impairs the ability to see.
<b>Discharge Lamps</b>	Fluorescent lamps are medium pressure discharge lamps but high-pressure lamps include Metal Halide, Ceramic Metal Halide, and High-pressure Sodium lamps.
<b>Discomfort Glare</b>	Glare that does not impair the ability to see, but that will cause over time a certain subconscious discomfort.
<b>DLOR</b>	Downward Light Output Ratio. The ratio of the total light output of a luminaire below the horizontal.
<b>DMX</b>	<p>(Digital Multiplex) is a standard for digital communication networks that are commonly used to control stage lighting and effects. It was originally intended as a standardised method for controlling light dimmers, which, prior to DMX512, had employed various incompatible proprietary protocols. It soon became the primary method for linking controllers (such as a lighting console) to dimmers and special effects devices such as fog machines and intelligent lights.</p> <p>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.</p>
<b>Double Insulation</b>	Insulation comprising both basic insulation and supplementary insulation. Also referred to as Class II
<b>Efficiency</b>	Ratio of power supplied to wattage dissipated.
<b>Efficacy</b>	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
<b>Electromagnetic Ballast (Magnetic Ballast)</b>	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.

<b>Electronic Ballasts (High Frequency)</b>	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.
<b>EMC</b>	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.
<b>Emergency Lighting</b>	Lighting provided for use when the main lighting installation fails enabling safe exit from a building.
<b>Emergency Lighting Testing</b>	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 <ul style="list-style-type: none"> <li>• Daily – Visual Check that the charge indicator LED is illuminated</li> <li>• Monthly – A Functional test, that the luminaire operates when mains supply is disconnected</li> <li>• Annually – As Monthly test but for the full rated duration of the luminaire (3hrs)</li> </ul>
<b>Enclosed Rated Lamp</b>	Refers to HID Metal Halide lamps that are specifically designed for the installation into an enclosed fixture (e.g. Floodlight). The lamp has only basic protection by a single barrier of the lamp. This means protective glass and covers are required.
<b>Escape Route Lighting</b>	Emergency lighting provided on a defined route to ensure that the means of escape from a point in a building to the final exit.
<b>ELV</b>	Extra low voltage: voltage range from (1V – 50V).
<b>E27 (ES)</b>	Edison Screw (lampholder or lamp cap).
<b>E40 (GES)</b>	Giant Edison Screw (lampholder or lamp cap) common on larger wattage HID lamps.
<b>F Mark</b>	This symbol indicates downlights that are not suitable for covering with insulation which has minimum size requirements such that it is visible above the ceiling after installation.  The second F Mark symbol is for downlights that are not suitable for normally flammable ceilings.
<b>Filament</b>	The tungsten coil that glows to incandescence when an electric current passes through it.
<b>Fire-Rated</b>	A luminaire, usually a downlight, which has been designed to function also as a fire barrier when installed into a building.
<b>Flicker</b>	A visible oscillation in the luminous flux/light output.
<b>Flood Beam</b>	Reflector lamps and luminaires with in built reflectors having a beam spread of more than 60°
<b>Fluorescent lamps</b>	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 lamps produce much more dispersed light than 'point' sources such as incandescent, halogen or discharge lamps. This quality, along with their outstanding energy efficiency, make them ideally suited for illuminating many large open areas such as offices and industrial buildings. Standard traditional fluorescent lamps use halophosphate lamp coatings. These lamps are used where low initial cost is the most important factor. However, higher performance lamps using triphosphor coatings, are now increasingly being used as they provide better colour rendering and significant energy savings. All compact fluorescent and T5 lamps are Triphosphor as standard.



<b>Fluorescent Tubes T12, T8, T5 etc</b>	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.
<b>Fluorescent Lamps - Effects of temperature change</b>	Fluorescent lamps are designed to produce their optimum light output at an ambient temperature of 25°C. However, when installed in a luminaire; the temperature of the air surrounding a lamp can change and affect the light output of the lamp. In cold rooms for example the light output may only be 50% of the rated figure.
<b>Flux</b>	(Lumens) falling on to a surface.
<b>Frequency</b>	Rate of alternation in an AC current. Expressed in cycles per second or hertz (Hz).
<b>General Lighting</b>	Lighting designed to illuminate the whole of an area uniformly without provision for special local requirements.
<b>Glare</b>	Refers to the difficulty seeing in the presence of bright light such as direct or reflected sunlight or artificial light such as direct LED output. Because of this, some luminaires include opal diffusers or reflectors to provide an anti-glare function.
<b>Hazardous Area</b>	An environment in which a risk of fire or explosion exists. Commonly referred to as Zone 1, Zone 2 etc, but not to be confused with the Zones of space in bathroom areas. Ansell do not offer any equipment suitable for Hazardous areas.
<b>Hertz (Hz)</b>	Cycles (frequency) per second.
<b>HFDD</b>	HFDD refers to High Frequency Digital Dimming control gear. This control gear is available in a number of options HFDD /1, HFDD/2 and HFDD/3. Each option comes supplied with a different dimming method to suit the needs or requirements of the installer.
<b>HFDD/1</b>	<p>SWITCH DIM – SwitchDIM operation for ON / OFF and dimming is by means of a push - to-make (retractive) switch, and is the simplest form of dimming. A brief operation of the switch (&lt;0.6sec), will switch ON or OFF. When the push to make switch is held, the ballast is dimmed. On a further push, the ballast is dimmed in the opposite direction.</p> <p>For full operation the circuit should be as shown below, using a 4 core installation (switched live, permanent live supply, neutral and earth).</p> <p>An additional Unswitched live is required if the luminaire incorporates emergency control gear.</p>

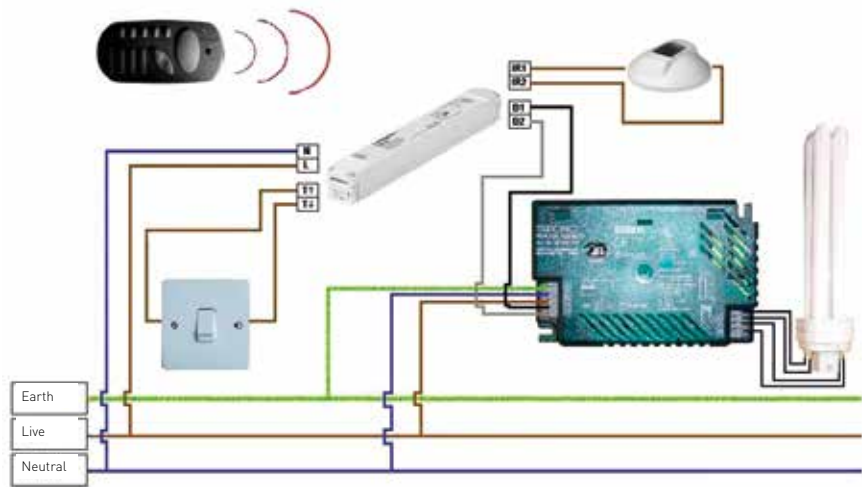


**HFDD/2**

**DIGITAL DIMMING (DSI)** – This ballast 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.

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.

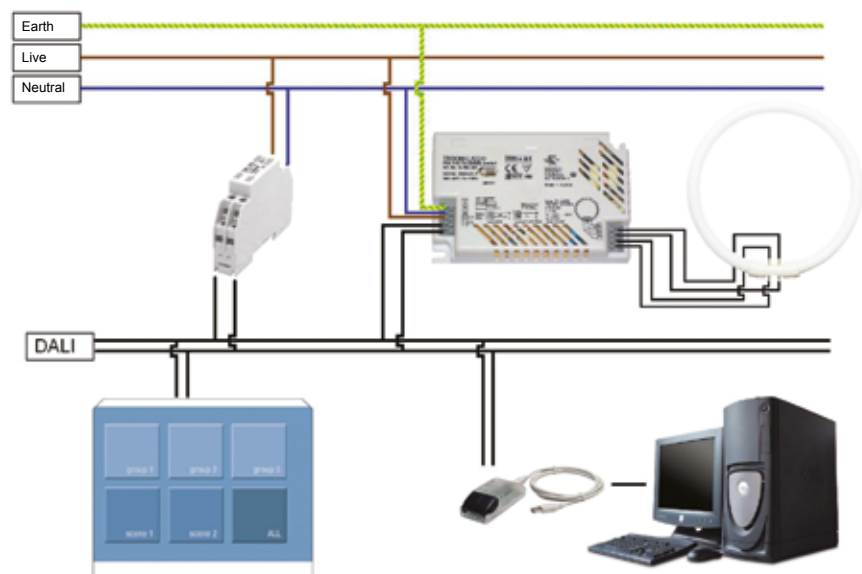
Each luminaire requires a 3 core mains supply (L E N) and an additional DSI signal cable, normally a 2 core 0.75mm<sup>2</sup> flexible cable. This is looped around any luminaires to be dimmed together (check with the Dimming Controller supplier as there are a maximum number of ballasts which can be connected together, dependent on lamp type and wattage). An additional Unswitched live is required if the luminaire incorporates emergency control gear.



**HFDD/3**

**DALI** - A Dimming system that employs DALI (Digital Addressable Lighting Interface) protocol-based technology (i.e. digital control signals) to control electronic ballast, controller and sensor 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.

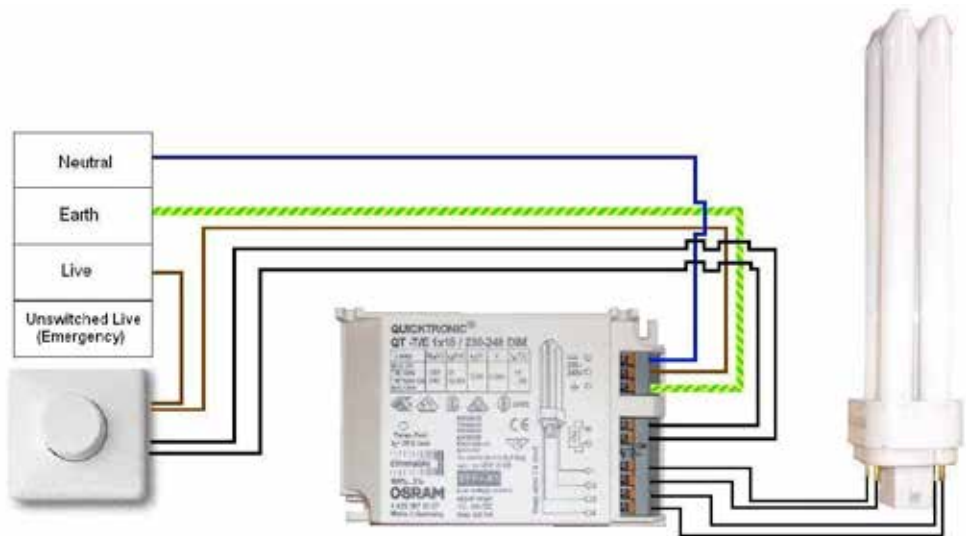


**HFDD/4**

Analogue Dimming also known as High Frequency Regulating (HFR) – employs the use of a control voltage, either 0-10V DC or 1-10V DC. Both are similar, only the 0-10V will dim down to approximately. 6% of light output and 1-10V will only dim to approximately. 10% of light output.

The method of control for this system is by means of either a rotary or slider potentiometer. Analogue (HFR) dimming ballasts can also be used with many available scene-set or mood-set controllers.

Each luminaire requires a 3 core mains supply (L E N), and an additional 1-10V signal cable, normally a 2 core 0.75mm<sup>2</sup> flexible cable. This is looped around any luminaires to be dimmed together. An additional unswitched live is required if the luminaire incorporates emergency control gear.

**High Power Factor**

A circuit/control gear with a .9 or higher rating power factor, which is achieved by using a capacitor or Electronic Ballast.

**Hot Lumens**

Refers to the LED package or luminaire which can be tested in a number of ways. The first is the quick screening test performed on the LED output, in which a current pulse is applied to the LED and the light output is measured. This is the 'cold' lumen test and results in the highest lumen value that can be achieved but does not represent what lumen output will be achieved during normal operation.

The second way is to apply constant DC current to the LED with the case at a temperature that represents the temperature that may be reached inside the luminaire. The 'hot' lumen value is much closer to the value that the LED package, or luminaire, will emit once it has reached optimum temperature.

**High Risk Task Area**

A requirement within Emergency Escape Lighting provided to ensure the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises.

**Hot Restart/Strike**

The phenomenon of re-striking the arc in a HID light source after a momentary power loss. Hot restart occurs when the arc tube has cooled a sufficient amount. Some lamps also employ 2 arc tubes to allow hot re-strike.

**(hm)**

Usually the vertical distances between a luminaire and the working plan, but sometimes the distance between the luminaire and the floor.



<b>iCage</b>	<i>Ansell Lighting innovative range of fire rated downlights.</i>		
<b>Ignitor</b>	<i>A device, which provides a control high voltage (3.0- 4.5kV) pulse to ignite a gas discharge lamp. Two basic types are available, impulse Ignitor and superimposed Ignitor.</i>		
<b>Illuminance</b>	<i>A photometric term that quantifies the light on a surface or plane. It is expressed in lumens per m<sup>2</sup> (lux). This can be calculated or measure with a lightmeter.</i>		
<b>Illumination</b>	<i>The density of luminous flux on a surface this parameter shows how “bright” the surface point appears to the human eye.</i>		
<b>Intensity of Light</b>	<i>This is the power of visible radiation in a particular direction measured in Candelas.</i>		
<b>Incandescent Lamp</b>	<i>A lamp which produces light by electrically heating a filament.</i>		
<b>Indirect Glare</b>	<i>Glare produced from a reflective surface.</i>		
<b>Indirect Lighting</b>	<i>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.</i>		
<b>Induction Lighting</b>	<i>The internal electrodeless lamp or induction light is a gas discharge lamp in which the power required to generate light is transferred from outside the lamp envelope to the gas inside via an electric or magnetic field, in contrast with a typical gas discharge lamp that uses internal electrodes connected to the power supply by conductors that pass through the lamp envelope.</i>		
<b>IP Ratings</b>	<i>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:</i>		
<b>Classification of Ingress Protection</b>		<i>Protection Against ingress of Water</i>	
	<b>IP20</b>	<i>Greater than 12mm</i>	<i>Non-protected</i>
	<b>IP21</b>	<i>Greater than 12mm</i>	<i>Dripping water</i>
	<b>IP22</b>	<i>Greater than 12mm</i>	<i>Dripping water (up to 15° angle)</i>
	<b>IP23</b>	<i>Greater than 12mm</i>	<i>Spraying water (up to 60° angle)</i>
	<b>IP40</b>	<i>Greater than 1mm</i>	<i>Non-protected</i>
	<b>IP43</b>	<i>Greater than 1mm</i>	<i>Spraying water (up to 60° angle)</i>
	<b>IP44</b>	<i>Greater than 1mm</i>	<i>Splashing water</i>
	<b>IP54</b>	<i>Dust-protected</i>	<i>Splashing water</i>
	<b>IP55</b>	<i>Dust-protected</i>	<i>Water jets</i>
	<b>IP64</b>	<i>Dust-tight</i>	<i>Splashing water</i>
	<b>IP65</b>	<i>Dust-tight</i>	<i>Water jets</i>
	<b>IP66</b>	<i>Dust-tight</i>	<i>Powerful Water jets</i>
	<b>IP67</b>	<i>Dust-tight</i>	<i>Water immersion</i>
<b>IP68</b>	<i>Dust-tight</i>	<i>Submersion to declared depth</i>	
<b>Initial Lumens</b>	<i>Lumen output of a lamp after it has been operating 100 hours.</i>		
<b>Input Voltage</b>	<i>Voltage provided to a ballast/luminaire by the power supply.</i>		

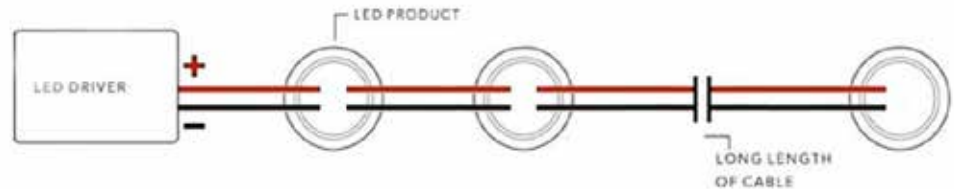


<b>Inrush Current</b>	<i>A transient condition, generally lasting 5-10 milliseconds that occurs during ballast start-up. Largely dependent upon ballast circuit design. Wire wound transformers can have in rush currents up to 40 times their running current making the correct selection of circuit protection devices vital.</i>
<b>Illuminance</b>	<i>The amount of light.</i>
<b>Illumination Level</b>	<i>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.</i>
<b>Iridescence</b>	<i>Occurs when a reflector, especially those made of anodized aluminium, separates the wavelengths in the light produced by the CFL's rare-earth phosphors. This can result in a 'rainbow' effect seen on the Aluminium surface.</i>
<b>Isolux Diagram</b>	<i>A diagram showing contours of equal illuminance. Can be used to determine the direct illuminance on a plane.</i>
<b>Kelvin</b>	<i>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.</i>
<b>Kwh</b>	<i>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.</i>
<b>Lamp</b>	<i>A device which converts electrical energy into light. Can be Tungsten filament, Fluorescent or HID.</i>
<b>Lamp Darkening</b>	<i>Through life, some darkening of the arc tube, most apparent near the ends of the lamp, will occur due to the deposits of electrode material on the inside wall surface. This is quite normal with lamp ageing and cannot be avoided. It is typically seen on T5 lamps that due to their smaller diameter are not possible to have cathode shields fitted, also lamps that have been excessively operated on Emergency lighting circuits. Other causes are radiated heat reflected back onto the arc tube or poor luminaire design allowing excessive heating of lamp heating.</i>
<b>LED</b>	<i>Light-emitting Diode. Ultra-bright light-emitting diodes based on material combinations such as Aluminium Gallium Indium Phosphide (AlGaInP) and Gallium Arsenide (GaAs) which cover half the visible spectrum, ranging from yellowish-green to red. Since developments in the early 1990's, this technology has been undergoing continuous improvements to increase the efficiency of the LED.</i>
<b>LED Driver / Converter</b>	<i>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.</i>
<b>LED Life</b>	<i>Figures published refer to the L50, L70 or L75 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 25c. Building a LED into a luminaire can result in the operating temperature being outside the design parameters and the life being adversely affected.</i>



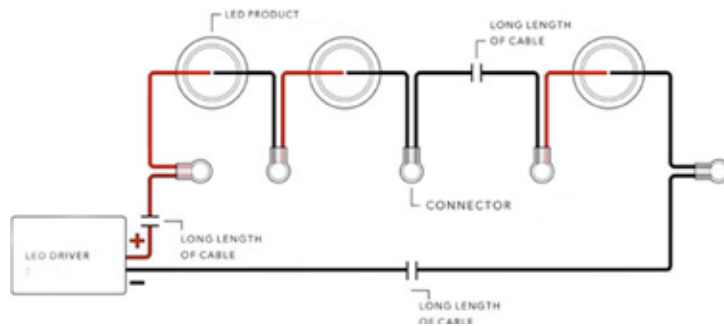
### LED Parallel Wiring

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 a code of practice accredited member of this leading UK trade organisation. Ansell have elected to participate in the LIA Code of Practice Scheme that is designed to substantiate Members' claim of conformity and the BSEN standard.

By taking part in this scheme all of our manufacturing facilities are audited on an annual basis to ensure compliance and quality.

[www.thelia.org.uk](http://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.

### 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.



<b>Lm/W</b>	<p><i>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.</i></p> <p><i>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.</i></p> <p><i>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.</i></p>
<b>LOR</b>	<i>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.</i>
<b>LDL</b>	<i>Lighting Design Lumens. Lamps vary in flux output, both between themselves and through their operating lives. This is a nominal value which representative of the average light output of each type or size of lamp throughout life.</i>
<b>Lumen</b>	<i>Standard unit of luminous flux. Describes the quantity of light emitted by a light source or received by a surface.</i>
<b>Luminance</b>	<i>The physical measure of brightness measured by the luminous intensity of the light emitted or reflected in a given direction from a surface element divided by the area of the element in the same direction. The SI unit of luminance is the candela per square metre (Cd/m<sup>2</sup>) It is very difficult to determine other than with a luminance meter.</i>
<b>Luminous Efficiency</b>	<i>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.</i>
<b>Lux</b>	<i>The metric unit of measure for illuminance of a surface. One lux is equal to one lumen per metre-squared.</i>
<b>Maintained Luminaire</b>	<i>A luminaire containing one or more lamps all of which operate from the normal supply or from the emergency supply when required.</i>
<b>Metal Halide Lamp</b>	<i>A high intensity discharge (HID) lamp, which uses a mercury discharge modulated by other additives to give, enhance colour and efficiency.</i>
<b>Mercury Lamp</b>	<i>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.</i>
<b>Microwave Sensor (MWS)</b>	<i>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.</i>
<b>M3</b>	<i>Maintained 3hour, Mode and duration (minimum with fully charged batteries) of an Emergency luminaire. To ensure the full duration is achieved, Emergency luminaires must be correctly maintained to condition the batteries.</i>
<b>Night Light (NL)</b>	<i>A light source used only to provide low levels of illumination at night, for security or safe movement of persons. This may either be a standalone luminaire or an option incorporated within a luminaire used for general lighting. Low wattage compact fluorescent lamps are ideal for this application.</i>
<b>NiCd</b>	<i>The nickel-cadmium battery (NiCd battery or NiCad battery) is a type of rechargeable battery using nickel oxide hydroxide and metallic cadmium as electrodes. The abbreviation Ni-Cd is derived from the chemical symbols of nickel (Ni) and cadmium (Cd)</i>

<b>NiMh</b>	<i>A nickel–metal hydride battery, abbreviated NiMH or Ni–MH, is a type of rechargeable battery. Its chemical reactions are somewhat similar to the largely obsolete nickel–cadmium cell (NiCd). NiMH use positive electrodes of nickel oxyhydroxide (NiOOH), like the NiCd, but the negative electrodes use a hydrogen-absorbing alloy instead of cadmium, being in essence a practical application of nickel–hydrogen battery chemistry. A NiMH battery can have two to three times the capacity of an equivalent size NiCd, and their energy density approaches that of a lithium-ion cell.</i>
<b>Noise</b>	<i>Conventional copper wound ballast's at normal supply frequencies can generate a low level 'hum'. HF electronic ballasts emit no perciveable noise.</i>
<b>Noise (Electronics)</b>	<i>In electronics, noise is a random fluctuation in an electrical signal, a characteristic of all electronic circuits. Noise generated by electronic devices varies greatly, as it can be produced by several different effects. Thermal noise is unavoidable at non-zero temperature, while other types depend mostly on device type (such as shot noise,[1][2] which needs steep potential barrier) or manufacturing quality and semiconductor defects, such as conductance fluctuations.</i>
<b>Non-Maintained Luminaire</b>	<i>The lamp is off when the mains power is available to charge the batteries. Upon supply failure the lamp is energised from the battery pack.</i>
<b>Obtrusive light</b>	<i>Light from any luminaire which causes discomfort or impedes the view of the night sky.</i>
<b>Occupancy Sensor</b>	<i>Control device that turns lights off after the space becomes unoccupied. May be Microwave, ultrasonic, infrared or other type. Care should be taken that switching cycles do not impede the life of the lamp. It is recommended that a minimum of 20mins ON is used</i>
<b>Open (anti-panic) Area Lighting</b>	<i>A part of Emergency Escape Lighting provided to avoid panic and provides illumination-allowing people to reach a place where an escape route can be identified.</i>
<b>Open Rated Lamp</b>	<i>Refers to HID Metal Halide lamps that are specifically designed for the installation into an open fixture (e.g. High Bay). The lamp has a second means of protection by a shield around the arc tube within the lamp. So no protective glass or cover is required from the luminaire.</i>
<b>Operating Efficacy</b>	<i>A term used which qualifies the efficacy of a lighting installation in use. Specifically operating efficacy is the quotient of the installed efficacy of the installation and the load factor. It is expressed in Lumens per watt (Lm/W)</i>
<b>Operating Frequency</b>	<i>Refers to the frequency at which the output of a lamp or LED source operates per second. Typically the operating frequency is the same as the input frequency (50Hz). Electronic or high frequency control gear can be used, and this will increase the operating frequency significantly into an operating frequency that the human eye cannot detect.</i>
<b>Part L</b>	<i>New legislation due for release in 2013 encompasses energy efficiency design criteria of new &amp; existing buildings in relation to lighting installations, which must be met to achieve building regulations.</i>
<b>PIR</b>	<i>Passive InfraRed (Detectors) are a type of occupancy sensor. Ansell do not recommend HF compact fluorescent luminaires controlled by PIR's and they should have a minimum of a 20 minute switching cycle.</i>
	<i>The PIR's are suitable for LED lamps / luminaires. LED lamps / luminaires can be switched at any frequency but provision must be taken for the in-rush current of the LED control gear. Ansell recommends the use of branded PIR devices.</i>
<b>Phosphor</b>	<i>The powder coating in an electric discharge lamp is the phosphor. The most common chemical used to make white light is calcium halophosphate. Other colours can be produced by a variety of other chemicals.</i>

<b>Photocell</b>	A light-sensing device used to control luminaires and dimmers in response to detected light levels.
<b>Phase Cut Off / Resistive Dimmers</b>	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.
<b>Photometrics</b>	Photometrics is a term that expresses the result of scientifically tested Ansell Lighting products to produce information that can be used in lighting design packages such as Relux. This information is available for download at <a href="http://www.anselluk.com/downloads">www.anselluk.com/downloads</a>
<b>Pre-heat</b>	A type of ballast/lamp circuit that is designed to heat up a fluorescent lamp before high voltage is applied to start the lamp. This prolongs life of the lamp as is less harmful during starting. Also called Warm-Start.
<b>Ra</b>	See Colour Rendering
<b>Rated Duration</b>	Manufactures declared duration for a battery operated Emergency Lighting unit, specifying the minimum time for which it will operate after mains failure. This is normally one or three hours (when fully charged) From initial install, 24hours is required to reach full charge and 12-14hrs from subsequent discharges.
<b>REACH</b>	Registration, Evaluation, Authorisation & restriction of Chemicals. An EU Directive covering the use of hazardous chemicals used in the manufacturing process and supply of products.
<b>Relux</b> 	The Ansell Lighting design department utilises Relux as the standard lighting design package and visual presentation tool. This programme is available free for download from <a href="http://www.relux.biz">www.relux.biz</a>
<b>Resistive Dimmer</b>	See Phase Cut Off Dimmer
<b>RoHS</b> 	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.
<b>RM3</b>	Remote Maintained 3hour, Luminaire where the Emergency control gear is separate from the main luminaire housing, typically due to lack of space for the additional emergency components. The emergency control gear must be enclosed and within 1.0m of the main luminaire. Otherwise it is classed as a central battery system and then must be wired in flame resistant cable.
<b>Safety Glass</b>	A necessity on most HID luminaires for UV protection and protection against lamp implosion. Usually made from toughened/tempered or borosilicate glass.
<b>SBC</b>	Small Bayonet Cap (lampholder or lamp cap).
<b>Self-Contained Emergency Luminaire</b>	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.

<b>Self Test Emergency</b>	<i>The Self-Test circuit utilises an accurate internal clock which is programmed to interrupt the permanent mains supply at set intervals thus initiating emergency lighting tests. The Self Test units are supplied pre-programmed to initiate short duration tests once every month, a one third duration test after six months and a full duration test once every 12 months (as recommended in BS5266 and EN50172).</i>
<b>SELV</b>	<i>Separated Extra-Low Voltage. An extra-low voltage system, which is electrically separated from Earth and from other systems in such a way that a single fault cannot give rise to the risk of electric shock.</i>
<b>Sensor Options</b>	
<b>ASEN1 &amp; SEN1</b>	<i>This sensor option is for a presence detector which has an on / off operation only (IP65 version available).</i>
<b>ASEN3 &amp; SEN3</b>	<i>This sensor option is for a presence detector complete with a regulating photocell. The regulating photocell will detect ambient light in the application and reduce the light output of the fitting accordingly. Note – Luminaire must have HFDD control gear installed (IP65 version available).</i>
<b>SES</b>	<i>Small Edison Screw (lampholder or lamp cap).</i>
<b>Service Illuminance</b>	<i>is illuminance recommended for the assumed standard conditions of the application, as specified within the CIBSE guide.</i>
<b>Starter</b>	<i>A device used with a ballast to start a fluorescent lamp. Starters should always be replaced at the same time as lamps to ensure efficient operation.</i>
<b>Stroboscopic Effect</b>	<i>The optical elusion of motion in which moving objects appear stationary when illuminated with periodically changing light. This is due to the movement of the item occurring at the same frequency as the supply to the lamp, normally 50Hz or 50 times per second. This can be particularly dangerous in industrial applications but can be cured by using high frequency control gear.</i>
<b>Sustained Emergency</b>	<i>This term refers to a twin lamp emergency luminaire in which each lamp has it's own function. One of the two lamps will operate for maintained / switched operation and the second lamp will only operate in emergency mode.</i>
<b>Sustainability HID Lamps</b>	<i>HID lamps that have two arc tubes installed to share the operational workload and providing extended lamp life and higher lamp maintenance.</i>
<b>Symmetrical Distribution</b>	<i>Symmetric distribution of light. In many cases, the luminous intensity (light output) is distributed exactly the same either side of the lighting plane. Commonly found on floodlights, downlights and projectors.</i>
<b>Task lighting</b>	<i>Localised lighting intended for a specific task, examples include bedhead reading lights, desk lamps and inspection bench lighting.</i>
<b>Timed ignitors</b>	<i>Optional safety feature to protect the ignitor from overheating. Timed ignitors will 'shut down' if they are not successful in striking a lamp after a number of attempts, thus protecting the circuit and luminaire from potential damage that constant ignition voltages can cause.</i>
<b>Titan LED</b>	<i>Ansell Lighting dedicated LED fire rated downlight.</i>
<b>t°C</b>	<i>Rated value of the casing's maximum operating temperature. Typically marked on control gear components.</i>
<b>Thermal Cut-out</b>	<i>A protection from overheating due to abnormal lamp conditions (rectifier effect, short circuit or overload), with automatic restart after cooling. If a lamp is in a cycle of, runs for a duration, turns off, then restarts and runs for the duration again, it is likely that a thermal cut-out is operating.</i>



<b>Thermal Performance</b>	<i>This term refers to the design / thermal management of a luminaire.</i>
<b>TP(a)</b>	<i>Fire Retardant Thermoplastic: this is an indication of fire performance and can only be applied to materials that have achieved the appropriate standards. All polycarbonate materials 3mm or thicker as well as PVC can be classified as TP(a) according to building regulations Part B.</i>
<b>Transformer</b>	<i>A device by which the voltage of alternating current is changed. Traditional transformers are constructed by copper wire wound around an iron core, Electronic transformers are also commonly found. Typically used for supplying low voltage lamps, most transformers can be dimmed. The success of dimming depends on many factors including the type of dimmer and transformer used. Ansell can not recommend particular dimmers and suggest that the dimmer supplier is consulted for compatibility.</i>
<b>Transient Voltage</b>	<i>A sudden surge of high voltage on a power distribution circuit, usually caused by lightning or the switching on/off of heavy loads, especially motors.</i>
<b>Triphosphor Lamp</b>	<i>The fluorescent coating made up of 3 different phosphors on the inside of lamps that gives enhanced colour rendering. Compact fluorescent and T5 lamps are Tri-Phosphor as standard. T8 lamps will become Tri-phosphor only as less efficient Halophosphate lamps are phased out.</i>
<b>Tungsten Filament</b>	<i>A tungsten filament is coiled then coiled again to make it more efficient and robust. Whilst a wire heated to over 525°C will act as a light source, the melting point of tungsten is 3419°C.</i>
<b>Tw</b>	<i>Maximum permitted winding temperature of the ballast under normal operating conditions.</i>
<b>ULOR</b>	<i>Upward Light Output Ratio The ratio of the total light output of a luminaire above the horizontal.</i>
<b>Utilisation Factor</b>	<i>The proportion of the luminous flux emitted by a light source, which reaches the working plane.</i>
<b>UV Ultra Violet</b>	<i>Invisible radiation that is shorter in wavelength and higher in frequency than visible violet light (literally beyond the violet light). Lamps that emit varying degrees of long wave ultraviolet light, which does cause harm or degradation overtime, may require filters to absorb the UV. A 'failed' lamp that does not emit any visible light is still capable of emitting high levels of UV light but is not noticed as the lack of visible light gives the impression that the lamp is not operating. The high levels of UV can then cause damage to materials, particularly plastics, with dis-colouration and crumbling of the material. Therefore failed lamps should always be replaced immediately. Ultraviolet light source can be used to create special lighting effects with fluorescent materials. UV sources can be incandescent, fluorescent, or preferably HID lamps.</i>
<b>UV filter</b>	<i>Attachment for absorbing UV radiation from the beam. Glass makes a very effective filter.</i>
<b>Visual Field</b>	<i>The human visual field is much wider than most suppose with Altitude +60° - 60° and Azimuth 120° window.</i>
<b>Voltage</b>	<i>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.</i>
<b>Watt (W)</b>	<i>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.)</i>

**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.

**White Light**

Although scientists call the light that comes from light bulbs and the Sun as “white” light, it is not really white. White light is a combination of all the colours in a rainbow. This mixture of colours is called the light spectrum.

Products within the Collezione Italiana range have a finish that gives the appearance of wood, whilst having the advantages of a durable, weather resistant material.

The process starts with a corrosion resistant aluminium extrusion, then a film transfer and cellulose resin is then applied by a process called Sublimation. This process does not have any harmful or polluting waste, making it very safe to both humans and our environment.

The final result is a seamless finish that is perfectly applied to the profile of the Collezione Italiana product. Extensive laboratory testing including in saline mist for over 1500 continuous hours in order to simulate coastal conditions, has been successfully completed. Giving confidence in this highly realistic finish.

**Working Plane**

The horizontal, vertical, or inclined plane in which the visual task lies. If no information is available, the working plane may be considered to be the horizontal and 0.75m above the floor for offices (desk height), horizontal and 0.85m-1.0m above the floor for industrial (bench) applications.

**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	
<b>PL-S</b>	5	250		G23	4000K	230
	7	400				
	9	600				
	11	900				
<b>PL-C (2-Pin)</b>	10	600		G24 d-1	4000K	230
	13	900		G24 d-1		
	18	1,200		G24 d-2		
	26	1,800		G24 d-3		
<b>PL-C (4-Pin)</b>	10	600		G24 q-1	4000K	230
	13	900		G24 q-1		
	18	1,200		G24 q-2		
	26	1,800		G24 q-3		
<b>PL-T</b>	13	900		GX24 q-1	4000K	230
	18	1,200		GX24 q-2		
	26	1,800		GX24 q-3		
	32	2,400		GX24 q-3		
	42	3,200		GX24 q-4		
	57	4,300		GX24 q-5		
	70	5,200		GX24 q-6		
<b>Megaman Clusterlite</b>	60W	4,000		E27	4000K	230
<b>PL-L</b>	18	1,200		2G11	4000K	230
	24	1,800				
	36	2,900				
	40	3,500				
	55	4,800				
	80	6,000				
<b>TC-DD (2 Pin)</b>	16	1,050		GR8	3500K	230
	28	2,050				
<b>TC-DD (4 Pin)</b>	16	1,050		GR10q	3500K	230
	28	2,050				
	38	2,700				
<b>T5c</b>	40	3,400		2GX13	4000K	230
	55	4,300				
<b>GX53</b>	7	350		GX53	2700K/4000K	230
	9	450				
	11	570				
	13	650				
<b>T5 Miniature</b>	4	150		G5	3500K	230
	6	260				
	8	420				
	13	850				
<b>T5 High Efficiency</b>	14	1,350		G5	4000K	230
	21	2,100				
	28	2,900				
	35	3,650				
<b>T5 High Output</b>	24	2,000		G5	4000K	230
	39	3,500				
	49	4,900				
	54	5,000				
	80	7,000				
<b>T8 Triphosphor</b>	18	1,350		G13	4000K	230
	36	3,350				
	58	5,200				
	70	6,000				



Lamp Type	Rating (W)	Light Flux (lm)	Illustration	Cap/Base Type	Colour Temperature	Voltage (V)
<b>T8 Halophosphor</b>	15	950		G13	3500K	230
	18	1,150				
	30	2,175				
	36	2,850				
	58	4,600				
	70	5,500				
<b>T8 LED Tubes</b>	10	1050		G13	4500K	230
	18	2000				
	22	2350				
<b>SONE-I</b>	70	5,300		E27	2000K	230
<b>SONT</b>	150	15,000		E40	2000K	230
	250	27,500				
	400	50,000				
<b>SONT</b>	1,000	130,000		E40	2050K	230
<b>SONE</b>	250	26,000		E40	2000K	230
	400	47,500				
<b>MBF</b>	80	3,800		E27	4100K 4000K	230
	125	6,500				
<b>MBF</b>	250	15,000		E40	3500K	230
	400	22,500				
<b>HQI-TS</b>	70	5,500		RX-7	4200K	230
	150	10,000				
<b>HQI-E</b>	70	5,300		E27	4000K	230
	150	13,300				
<b>HQI-E</b>	250	23,800		E40	4000K	230
	400	41,000				
<b>HQI/T (MBI/T)</b>	200	20,000		E40	4000K	230
	250	18,900				
	320	30,000				
	400	32,400				
<b>HPI/T</b>	250	19,000		E40	4000K	230
	400	33,000				
<b>HQI/T (MBI/T)</b>	1,000	85,000		E40	6000K	230 415
	2,000	240,000				
<b>CDM-T</b>	35	4,000		G12	3000K	230
	70	7,750				
	150	15,000				
<b>CDM-TC</b>	35	4,000		G8.5	3000K	230
	70	7,650				
<b>GLS Halogen</b>	30	405		B22	2700K	230
	46	700				
	70	1,200				
<b>Striplight</b>	60	710		S19	2700K	230
<b>G4</b>	20	260		G4	2900K	12
<b>G9</b>	40	490		G9	2900K	230
	60	820				

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A/3MON/GU10/B	121	N/A	0.16	A/3ULEDS1/SS	124	63	0.60	AA28/WP/HF/M3	251	N/A	2.40
A/3MON/GU10/SS	121	N/A	0.16	A/3ULEDS1/W	124	63	0.60	AA28/WP/HF/M3/PC	251	N/A	3.38
A/3MON/GU10/W	121	N/A	0.16	A/3ULEDS1/WWW/B	124	63	0.60	AA28/WP/HF/MWS/M3	251	N/A	3.40
A/3MT1/B	119	N/A	0.88	A/3ULEDS1/WWW/SS	124	63	0.60	AA28/WP/HF/PC	251	N/A	1.80
A/3MT1/SS	119	N/A	0.88	A/3ULEDS1/WWW/W	124	63	0.60	AA28/WP/MWS/HF	251	N/A	1.80
A/3MT1/W	119	N/A	0.88	A/3ULEDS2/B	125	93	0.80	AACQE27WL/PIR/SS	193	N/A	1.77
A/3MT2/B	119	N/A	1.79	A/3ULEDS2/SS	125	93	0.80	AACQE27WL/SS	193	N/A	1.77
A/3MT2/SS	119	N/A	1.79	A/3ULEDS2/W	125	93	0.80	AACU/E27	139	N/A	0.95
A/3MT2/W	119	N/A	1.79	A/3ULEDS2/WWW/B	125	86	0.80	AADLED/100/CW	156	80	N/A
A/3MTA/B	121	N/A	0.07	A/3ULEDS2/WWW/SS	125	86	0.80	AADLED/100/RGB	156	N/A	N/A
A/3MTA/SS	121	N/A	0.07	A/3ULEDS2/WWW/W	125	86	0.80	AADLED/100/WW	156	75	N/A
A/3MTA/W	121	N/A	0.07	A/3ULEDS3/B	126	88	1.22	AADLED/1000/CW	156	80	N/A
A/3MTBC/B	120	N/A	0.06	A/3ULEDS3/SS	126	88	1.22	AADLED/1000/RGB	156	N/A	N/A
A/3MTBC/SS	120	N/A	0.06	A/3ULEDS3/W	126	88	1.22	AADLED/1000/WW	156	75	N/A
A/3MTBC/W	120	N/A	0.06	A/3ULEDS3/WWW/B	126	78	1.22	AADLED/2000/CW	156	80	N/A
A/3MTDE/B	120	N/A	0.01	A/3ULEDS3/WWW/SS	126	78	1.22	AADLED/2000/RGB	156	N/A	N/A
A/3MTDE/SS	120	N/A	0.01	A/3ULEDS3/WWW/W	126	78	1.22	AADLED/2000/WW	156	75	N/A
A/3MTDE/W	120	N/A	0.01	A/3ULEDS4/B	127	93	1.40	AADLED/300/CW	156	80	N/A
A/3MTFC/B	121	N/A	0.08	A/3ULEDS4/SS	127	93	1.40	AADLED/300/RGB	156	N/A	N/A
A/3MTFC/SS	121	N/A	0.08	A/3ULEDS4/W	127	93	1.40	AADLED/300/WW	156	75	N/A
A/3MTFC/W	121	N/A	0.08	A/3ULEDS4/WWW/B	127	88	1.40	AADLED/500/CW	156	80	N/A
A/3MTLC/PI/B	121	N/A	0.15	A/3ULEDS4/WWW/SS	127	88	1.40	AADLED/500/RGB	156	N/A	N/A
A/3MTLC/PI/SS	121	N/A	0.15	A/3ULEDS4/WWW/W	127	88	1.40	AADLED/500/WW	156	75	N/A
A/3MTLC/PI/W	121	N/A	0.15	A100TLL/T5	167, 169, 170	N/A	N/A	AADLED/5000/CW	156	80	N/A
A/3MTLC/PO/B	121	N/A	0.15	A100GC	265	N/A	1.50	AADLED/5000/RGB	156	N/A	N/A
A/3MTLC/PO/SS	121	N/A	0.15	A100PC	265	N/A	0.60	AADLED/5000/WW	156	75	N/A
A/3MTLC/PO/W	121	N/A	0.15	A100POLY	264	N/A	0.60	AAE27045/BL	306	N/A	2.20
A/3MTLE/PL/B	120	N/A	0.05	A100PR	265	N/A	0.60	AAE27075/BL	306	N/A	3.04
A/3MTLE/PL/SS	120	N/A	0.05	A14TP/T5	170	N/A	0.36	AAE27100/BL	306	N/A	3.69
A/3MTLE/PL/W	120	N/A	0.05	A14TT/T5	170	N/A	N/A	AALED/B	221	71	0.80
A/3MTLE/PR/B	120	N/A	0.05	A21TP/T5	170	N/A	0.60	AALED/SG	221	71	0.80
A/3MTLE/PR/SS	120	N/A	0.05	A21TT/T5	170	N/A	N/A	AALED1/BV	250	89	0.56
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A/3MTSC/B	120	N/A	0.09	A28TP/T5	170	N/A	0.70	AALED1/WW	250	89	0.56
A/3MTSC/SS	120	N/A	0.09	A28TT/T5	170	N/A	N/A	AALED1/WW/PC	250	89	0.66
A/3MTSC/W	120	N/A	0.09	A35TP/T5	170	N/A	0.81	AALED2/BV	250	87	0.96
A/3MTSK	121	N/A	0.05	A35TT/T5	170	N/A	N/A	AALED2/BV/M3	250	87	1.29
A/3MTTC/PI/B	121	N/A	0.25	A500TLL/T5	167, 169, 170	N/A	N/A	AALED2/BV/M3/PC	250	87	1.39
A/3MTTC/PI/SS	121	N/A	0.25	A6TP/T5	170	N/A	0.27	AALED2/BV/MWS	250	87	1.11
A/3MTTC/PI/W	121	N/A	0.25	A6TT/T5	170	N/A	N/A	AALED2/BV/PC	250	87	1.06
A/3MTTC/PO/B	121	N/A	0.25	A8TP/T5	170	N/A	0.25	AALED2/WW	250	87	0.96
A/3MTTC/PO/SS	121	N/A	0.25	A8TT/T5	170	N/A	N/A	AALED2/WW/M3	250	87	1.29
A/3MTTC/PO/W	121	N/A	0.25	AA16/BP/HF	251	N/A	1.20	AALED2/WW/M3/PC	250	87	1.39
A/3MTXC/B	120	N/A	0.30	AA16/BP/HF/PC	251	N/A	1.30	AALED2/WW/MWS	250	87	1.11
A/3MTXC/SS	120	N/A	0.30	AA16/WP/HF	251	N/A	1.20	AALED2/WW/PC	250	87	1.06
A/3MTXC/W	120	N/A	0.30	AA16/WP/HF/PC	251	N/A	1.30	AALU/AP/CO	154	N/A	0.13
A/3ULEDS0/CW/B	123	69	0.37	AA28/BP/HF	251	N/A	1.70	AALU/SP/CO	154	N/A	0.14
A/3ULEDS0/CW/SS	123	69	0.37	AA28/BP/HF/M3	251	N/A	2.40	AAMLEDP/WWW/B	130	53	0.94
A/3ULEDS0/CW/W	123	69	0.37	AA28/BP/HF/M3/PC	251	N/A	3.38	AAMLEDP/WWW/W	130	53	0.94
A/3ULEDS0/WWW/B	123	63	0.37	AA28/BP/HF/MWS/M3	251	N/A	3.40	AANCLED/B	259	78	0.83
A/3ULEDS0/WWW/SS	123	63	0.37	AA28/BP/HF/PC	251	N/A	1.80	AANCLED/W	259	78	0.83
A/3ULEDS0/WWW/W	123	63	0.37	AA28/BP/MWS/HF	251	N/A	1.80	AARG/GIM/CW/W	60	92	0.10
A/3ULEDS1/B	124	63	0.60	AA28/WP/HF	251	N/A	1.70	AARG/GIM/CW/CH	60	92	0.10

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AARG/GIM/CW/SC	60	92	0.10	ABD/W	93	N/A	0.26	ABLED2X6/TW	368	94	3.15
AARG/GIM/WWW	60	80	0.10	ABEAMLED	237	81	1.30	ABLED4	368	116	2.30
AARG/GIM/WWW/CH	60	80	0.10	ABELED/MW	179, 243	87	0.33	ABLED4/DD	368	116	2.32
AARG/GIM/WWW/SC	60	80	0.10	ABHRR58	375	N/A	1.01	ABLED4/DD/M3	368	116	2.91
AARGD/CW	59	87	0.11	ABHRR70	375	N/A	1.26	ABLED4/DD/M3/TW	368	116	2.91
AARGD/IP65BEZ/CH	59	N/A	0.01	ABLED/3NM	66, 422	N/A	0.90	ABLED4/DD/MWS	368	116	2.36
AARGD/IP65BEZ/SC	59	N/A	0.01	ABLED2X4	368	106	2.50	ABLED4/DD/MWS/M3	368	116	2.95
AARGD/WWW	59	85	0.11	ABLED2X4/DD	368	106	2.57	ABLED4/DD/MWS/M3/TW	368	116	2.95
AARLED/WL	204	58	0.72	ABLED2X4/DD/M3	368	106	3.16	ABLED4/DD/MWS/TW	368	116	2.36
AARLED/WL/PIR	204	58	0.73	ABLED2X4/DD/M3/TW	368	106	3.16	ABLED4/DD/TW	368	116	2.32
AARLEDB/060	294	58	1.26	ABLED2X4/DD/MWS	368	106	2.59	ABLED4/M3	368	116	2.89
AARLEDB/100	294	58	1.80	ABLED2X4/DD/MWS/M3	368	106	3.18	ABLED4/M3/TW	368	116	2.89
AAROLED	140, 238	75	3.53	ABLED2X4/DD/MWS/M3/TW	368	106	3.18	ABLED4/MWS	368	116	2.34
AASSQWOLED	325	69	1.01	ABLED2X4/DD/MWS/TW	368	106	2.59	ABLED4/MWS/M3	368	116	3.29
AASWOLED	326	69	0.87	ABLED2X4/DD/TW	368	106	3.16	ABLED4/MWS/M3/TW	368	116	3.29
AAUE27WLBA/BS	284	N/A	2.70	ABLED2X4/M3	368	106	3.09	ABLED4/MWS/TW	368	116	2.34
AAXLED/1000LL	166	N/A	N/A	ABLED2X4/M3/TW	368	106	3.09	ABLED4/TW	368	116	2.30
AAXLED/250LL	166	N/A	N/A	ABLED2X4/MWS	368	106	2.54	ABLED5	368	109	2.80
AAXLED/30/CW	166	71	0.08	ABLED2X4/MWS/M3	368	106	3.13	ABLED5/DD	368	109	2.82
AAXLED/30/WWW	166	71	0.08	ABLED2X4/MWS/M3/TW	368	106	3.13	ABLED5/DD/M3	368	109	3.41
AAXLED/50/CW	166	66	0.13	ABLED2X4/MWS/TW	368	106	2.54	ABLED5/DD/M3/TW	368	109	3.41
AAXLED/50/WWW	166	65	0.13	ABLED2X4/TW	368	106	2.50	ABLED5/DD/MWS	368	109	2.86
AAXLED/500LL	166	N/A	N/A	ABLED2X5	368	105	3.00	ABLED5/DD/MWS/M3	368	109	3.45
AAXLED/90/CW	166	66	0.24	ABLED2X5/DD	368	105	3.02	ABLED5/DD/MWS/M3/TW	368	109	3.45
AAXLED/90/WWW	166	69	0.24	ABLED2X5/DD/M3	368	105	3.61	ABLED5/DD/MWS/TW	368	109	2.86
AAXLED/ML	166	N/A	N/A	ABLED2X5/DD/M3/TW	368	105	3.61	ABLED5/DD/TW	368	109	2.82
AB118/HF	372	N/A	1.60	ABLED2X5DDMWS	368	105	3.06	ABLED5/M3	368	109	3.39
AB136/HF	372	N/A	2.45	ABLED2X5DDMWSM3	368	105	3.65	ABLED5/M3/TW	368	109	3.39
AB136/HF/M3	166	N/A	3.20	ABLED2X5DDMWSM3/TW	368	105	3.65	ABLED5/MWS	368	109	2.84
AB136/HFDD	372	N/A	2.45	ABLED2X5DDMWS/TW	368	105	3.06	ABLED5/MWS/M3	368	109	3.79
AB136/HFDD/M3	372	N/A	3.20	ABLED2X5/DD/TW	368	105	3.02	ABLED5/MWS/M3/TW	368	109	3.79
AB158/HF	372	N/A	3.05	ABLED2X5/M3	368	105	3.59	ABLED5/MWS/TW	368	109	2.84
AB158/HF/M3	372	N/A	3.70	ABLED2X5/M3/TW	368	105	3.59	ABLED5/TW	368	109	2.80
AB158/HFDD	372	N/A	3.05	ABLED2X5/MWS	368	105	3.04	ABLED6	368	100	2.95
AB158/HFDD/M3	372	N/A	3.70	ABLED2X5/MWS/M3	368	105	3.62	ABLED6/DD	368	100	2.97
AB170/HF	372	N/A	3.64	ABLED2X5MWSM3/TW	368	105	3.62	ABLED6/DD/M3	368	100	3.56
AB170/HF/M3	372	N/A	4.18	ABLED2X5/MWS/TW	368	105	3.04	ABLED6/DD/M3/TW	368	100	3.56
AB218/HF	372	N/A	1.65	ABLED2X5/TW	368	105	3.00	ABLED6/DD/MWS	368	100	3.01
AB236/HF	372	N/A	2.79	ABLED2X6	368	94	3.15	ABLED6/DD/MWS/M3	368	100	3.60
AB236/HF/M3	372	N/A	3.59	ABLED2X6/DD	368	94	3.17	ABLED6/DD/MWS/M3/TW	368	100	3.60
AB236/HFDD	372	N/A	2.79	ABLED2X6/DD/M3	368	94	3.76	ABLED6/DD/MWS/TW	368	100	3.01
AB236/HFDD/M3	372	N/A	3.59	ABLED2X6/DD/M3/TW	368	94	3.76	ABLED6/DD/TW	368	100	2.97
AB258/HF	372	N/A	3.10	ABLED2X6/DD/MWS	368	94	3.21	ABLED6/M3	368	100	3.54
AB258/HF/M3	372	N/A	4.10	ABLED2X6DDMWSM3	368	94	3.80	ABLED6/M3/TW	368	100	3.54
AB258/HFDD	372	N/A	3.10	ABLED2X6DDMWSM3/TW	368	94	3.80	ABLED6/MWS	368	100	2.99
AB258/HFDD/M3	372	N/A	4.10	ABLED2X6DDMWS/TW	368	94	3.21	ABLED6/MWS/M3	368	100	3.57
AB270/HF	372	N/A	5.04	ABLED2X6/DD/TW	368	94	3.17	ABLED6/MWS/M3/TW	368	100	3.57
AB270/HF/M3	372	N/A	5.14	ABLED2X6/M3	368	94	3.74	ABLED6/MWS/TW	368	100	2.99
ABAR36	375	N/A	1.30	ABLED2X6/M3/TW	368	94	3.74	ABLED6/TW	368	100	2.95
ABAR58	375	N/A	1.50	ABLED2X6/MWS	368	94	3.19	ABLF40/SS	277	N/A	0.66
ABAR70	375	N/A	1.70	ABLED2X6/MWS/M3	368	94	3.77	ABLFLED/SS	276	23	1.28
ABD/CH	93	N/A	0.26	ABLED2X6/MWS/M3/TW	368	94	3.77	ABLG40/SS	277	N/A	1.28
ABD/SC	93	N/A	0.26	ABLED2X6/MWS/TW	368	94	3.19	ABOD118	374	N/A	0.30



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ABOD136	374	N/A	0.50	ACCU/E27	139	N/A	0.77	ACOLED2/CW/M3	48	73	1.16
ABOD158	374	N/A	0.70	ACDLEDX1	61	45	0.27	ACOLED2/WW	48	73	0.57
ABOD170	374	N/A	0.75	ACDLEDX2	61	45	0.67	ACOLED2/WW/DD	48	73	0.59
ABOD218	374	N/A	0.60	ACELED/3M/ST	409	N/A	0.90	ACOLED2/WW/DD/M3	48	73	1.18
ABOD236	374	N/A	0.90	ACFLP/3	23, 70, 427	N/A	1.60	ACOLED2/WW/M3	48	73	1.16
ABOD258	374	N/A	1.20	ACLED/100/CW	158	76	N/A	ACOLED3/CW	50	112	0.57
ABOD270	374	N/A	1.30	ACLED/100/RGB	158	N/A	N/A	ACOLED3/CW/DD	50	112	0.59
ABPD118	374	N/A	0.30	ACLED/100/WW	158	73	N/A	ACOLED3/CW/DD/M3	50	112	1.18
ABPD136	374	N/A	0.50	ACLED/1000/CW	158	76	N/A	ACOLED3/CW/M3	50	112	1.16
ABPD158	374	N/A	0.70	ACLED/1000/RGB	158	N/A	N/A	ACOLED3/WW	50	106	0.57
ABPD170	374	N/A	0.75	ACLED/1000/WW	158	73	N/A	ACOLED3/WW/DD	50	106	0.59
ABPD218	374	N/A	0.60	ACLED/2000/CW	158	76	N/A	ACOLED3/WW/DD/M3	50	106	1.18
ABPD236	374	N/A	0.90	ACLED/2000/RGB	158	N/A	N/A	ACOLED3/WW/M3	50	106	1.16
ABPD258	374	N/A	1.20	ACLED/2000/WW	158	73	N/A	ACOLEDWW/CW	51	70	0.45
ABPD270	374	N/A	1.30	ACLED/300/CW	158	76	N/A	ACOLEDWW/WW	51	66	0.45
ABR36	375	N/A	1.40	ACLED/300/RGB	158	N/A	N/A	ACONLED/30/RGB	164	10	3.91
ABR58	375	N/A	1.80	ACLED/300/WW	158	73	N/A	ACONLED/30/RGB/PS	164	N/A	0.50
ABR70	375	N/A	2.09	ACLED/500/CW	158	76	N/A	ACONLED/50/CW	164	100	8.23
ABROLED	382	125	3.30	ACLED/500/RGB	158	N/A	N/A	ACONLED/50/PS	164	N/A	0.13
ABRWG36	375	N/A	0.57	ACLED/500/WW	158	73	N/A	ACONLED/50/WW	164	100	8.23
ABRWG58	375	N/A	0.70	ACLED/5000/CW	158	76	N/A	ACONLED/CL/CW	164	100	N/A
ABRWG70	375	N/A	0.81	ACLED/5000/RGB	158	N/A	N/A	ACONLED/CL/PS	164	N/A	N/A
ABXLED100/CW	58	80	0.08	ACLED/5000/WW	158	73	N/A	ACONLED/CL/RGB	164	10	N/A
ABXLED100/WW	58	74	0.08	ACLED/90/FB	159	N/A	N/A	ACONLED/CL/RGB/PS	164	N/A	N/A
ABXLED110/CW	58	84	0.09	ACLED/90B	159	N/A	N/A	ACONLED/CL/WW	164	100	N/A
ABXLED110/WW	58	82	0.09	ACLED/AMP/TOUCH	157, 159	N/A	0.22	ACONLED/CLIPS	164	N/A	0.06
ABXLED140/CW	58	73	0.16	ACLED/ML	157, 159	N/A	N/A	ACONLED/END	164	N/A	0.02
ABXLED140/WW	58	71	0.16	ACLED/ML/RGB	157, 159	N/A	N/A	ACONLED/FBEND	164	N/A	0.05
ABXLED190/CW	58	87	0.25	ACLED/RC/TOUCH	157, 159	N/A	0.46	ACONLED/RGB/CLIPS	164	N/A	0.05
ABXLED190/WW	58	85	0.25	ACLED/TC	157, 159	N/A	N/A	ACONLED/RGB/END	164	N/A	0.02
ACALED	216	32	2.77	ACLED/XC	157, 159	N/A	N/A	ACONLED/RGB/FBEND	164	N/A	0.06
ACALED/M3	216	32	3.55	ACLED100/LL	157, 159	N/A	N/A	ACONLED/SILG	164	N/A	0.06
ACALED/MWS	216	32	2.77	ACLED1000/LL	157, 159	N/A	N/A	ACP/BR	96	N/A	0.20
ACALED/SG	216	32	2.77	ACLED500/LL	157, 159	N/A	N/A	ACP/CH	96	N/A	0.20
ACALED/SG/M3	216	32	3.55	ACLLED/GR	196	45	0.26	ACP/SC	96	N/A	0.20
ACALED/SG/MWS	216	32	2.77	ACLLED/W	196	45	0.26	ACP/W	96	N/A	0.20
ACALED10	346	94	0.37	ACLPLED/GR	194	31	0.26	ACSQLEDWL	269	22	0.62
ACALED10/PIR	346	94	0.43	ACLPLED/W	194	31	0.26	ACWOLED	330	60	2.05
ACALED10/WW	346	89	0.37	ACO2X35	145, 229	N/A	0.76	AD16/BP/HF	253	N/A	1.00
ACALED10/WW/PIR	346	89	0.43	ACOGU10S/B	114	N/A	0.23	AD16/BP/HF/PC	253	N/A	1.10
ACALED20	346	96	0.53	ACOGU10S/SS	114	N/A	0.23	AD16/WO/HF	253	N/A	1.00
ACALED20/PIR	346	96	0.63	ACOGU10S/W	114	N/A	0.23	AD16/WO/HF/PC	253	N/A	1.10
ACALED20/WW	346	90	0.53	ACOLED1/CW	48	99	0.40	AD16/WP/HF	253	N/A	1.00
ACALED20/WW/PIR	346	90	0.63	ACOLED1/CW/DD	48	99	0.42	AD16/WP/HF/PC	253	N/A	1.10
ACALED30	347	97	0.57	ACOLED1/CW/DD/M3	48	99	1.01	AD28/BP/HF	253	N/A	1.80
ACALED30/PIR	347	97	0.68	ACOLED1/CW/M3	48	99	0.44	AD28/BP/HF/M3	253	N/A	2.50
ACALED30/WW	347	97	0.57	ACOLED1/WW	48	80	0.40	AD28/BP/HF/M3/PC	253	N/A	2.52
ACALED30/WW/PIR	347	97	0.68	ACOLED1/WW/DD	48	80	0.42	AD28/BP/HF/MWS/M3	253	N/A	2.56
ACALED50	347	99	0.88	ACOLED1/WW/DD/M3	48	80	1.01	AD28/BP/HF/PC	253	N/A	1.90
ACALED50/PIR	347	99	0.97	ACOLED1/WW/M3	48	80	0.44	AD28/BP/MWS/HF	253	N/A	1.90
ACALED50/WW	347	94	0.88	ACOLED2/CW	48	73	0.57	AD28/WO/HF	253	N/A	1.80
ACALED50/WW/PIR	347	94	0.97	ACOLED2/CW/DD	48	73	0.59	AD28/WO/HF/M3	253	N/A	2.50
ACCC350/700	62	N/A	N/A	ACOLED2/CW/DD/M3	48	73	1.18	AD28/WO/HF/M3/PC	253	N/A	2.52

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AD28/WO/HF/PC	253	N/A	1.90	ADLC/5	97	N/A	N/A	ADP4	361	N/A	1.72
AD28/WO/MWS/HF	253	N/A	1.90	ADLC/6	97	N/A	N/A	ADP5	361	N/A	2.13
AD28/WP/HF	253	N/A	1.80	ADLC/7	97	N/A	N/A	ADRLEDP/WW/B	129	76	1.62
AD28/WP/HF/M3	253	N/A	2.50	ADLC/8	97	N/A	N/A	ADRLEDP/WWW/W	129	76	1.62
AD28/WP/HF/M3/PC	253	N/A	2.52	ADLC/9	97	N/A	N/A	ADSIHLED1	183	86	0.22
AD28/WP/HF/MWS/M3	253	N/A	2.56	ADLED1/BV	252	110	0.50	ADSIHLED1/MWW	183	87	0.22
AD28/WP/HF/PC	253	N/A	1.90	ADLED1/BV/PC	252	110	0.60	ADSIHLED2	183	92	0.29
AD28/WP/MWS/HF	253	N/A	1.90	ADLED1/MW	252	110	0.50	ADSIHLED2/M3	183	92	1.28
AD30W/12V	150, 157, 166	N/A	N/A	ADLED1/MW/PC	252	110	0.60	ADSIHLED2/MMS	183	92	1.13
AD3W/350	151	N/A	N/A	ADLED2/BV	252	86	0.91	ADSIHLED2/MMS/M3	183	92	1.43
AD3W/700	62, 151	N/A	N/A	ADLED2/BV/M3	252	86	1.20	ADSIHLED2/MMS/M3/CF	183	92	1.43
AD50WS/GU10	318	N/A	0.81	ADLED2/BV/M3/PC	252	86	1.30	ADSIHLED2/MW	183	82	0.22
AD75W/12V	150, 157, 166	N/A	N/A	ADLED2/BV/MWS	252	86	1.02	ADSIHLED2/MW/M3	183	82	0.29
AD9W/350	61, 151, 312	N/A	N/A	ADLED2/BV/PC	252	86	0.60	ADSIHLED2/WWW/MMS	183	82	1.28
ADDM75W/12V	152, 157, 166	N/A	N/A	ADLED2/MW	252	86	0.91	ADSIHLED2/WWW/MMS/M3	183	82	1.13
ADELED	395	96	8.81	ADLED2/MW/M3	252	86	1.20	ADSIHLED2/WWW/MMS/M3/CF	183	82	1.43
ADELED/DD	395	96	8.81	ADLED2/MW/M3/PC	252	86	1.30	ADSILED1/BZ/CH	182	N/A	0.14
ADELED/DD/M3	395	96	11.81	ADLED2/MW/MWS	252	86	1.02	ADSILED1/BZ/GR	182	N/A	0.14
ADELED/M3	395	96	11.81	ADLED2/MW/PC	252	86	0.60	ADSILED2/BZ/CH	182	N/A	0.19
ADEPLED	137	60	2.04	ADM50GU10	227	N/A	1.16	ADSILED2/BZ/GR	182	N/A	0.19
ADEPLED/HP	137	85	2.04	ADM50GU10/SG	227	N/A	1.16	ADSILED1	182, 246	73	0.22
ADGU10S/B	115	N/A	0.11	ADMLED1/GR/CW	231	92	1.55	ADSILED1/MWW	182, 246	68	0.22
ADGU10S/SS	115	N/A	0.11	ADMLED2/GR/CW	231	85	1.56	ADSILED2	182, 246	79	0.29
ADGU10S/W	115	N/A	0.11	ADOLEDWL	233	50	2.50	ADSILED2/M3	182, 246	79	1.28
ADI16/HF	185, 249	N/A	1.20	ADOLEDWL/HP	234	91	3.71	ADSILED2/MWS	182, 246	79	1.13
ADI16BZ/BR	185, 248, 249	N/A	N/A	ADP/SS/CLIP	367	N/A	N/A	ADSILED2/MMS/M3	182, 246	79	1.43
ADI16BZ/CH	185, 248, 249	N/A	N/A	ADP/SS/CLIP/T5	367	N/A	N/A	ADSILED2/MMS/M3/CF	182, 246	79	1.43
ADI16BZ/SG	185, 248, 249	N/A	N/A	ADP118/HF	367	N/A	1.50	ADSILED2/MW	182	75	0.22
ADI28/HF	185, 249	N/A	2.18	ADP136/HF	367	N/A	2.08	ADSILED2/MW/M3	182	75	0.29
ADI28/HF/M3	185, 249	N/A	2.18	ADP136/HF/M3	367	N/A	2.81	ADSILED2/MW/MWS	182	75	1.28
ADI28/MWS/HF	185, 249	N/A	2.18	ADP136/HFDD	367	N/A	2.08	ADSILED2/WWW/MMS/M3	182	75	1.13
ADI28/MWS/HF/M3	185, 249	N/A	3.16	ADP136/HFDD/M3	367	N/A	2.81	ADSILED2/WWW/MMS/M3/CF	182	75	1.43
ADI28BZ/BR	185, 248, 249	N/A	N/A	ADP158/HF	367	N/A	2.59	ADU50	223	N/A	0.71
ADI28BZ/CH	185, 248, 249	N/A	N/A	ADP158/HF/M3	367	N/A	3.45	ADULEDB/080	298	90	3.70
ADI28BZ/SG	185, 248, 249	N/A	N/A	ADP158/HFDD	367	N/A	2.59	ADULEDB/080/PIR	298	90	3.70
ADILED1	184, 248	67	0.69	ADP158/HFDD/M3	367	N/A	3.45	ADVRL	187	N/A	1.12
ADILED2	184, 248	61	1.13	ADP170/HF	367	N/A	3.08	ADVSS	187	N/A	0.60
ADILED2/M3	184, 248	61	1.56	ADP170/HF/M3	367	N/A	4.07	AE3LED/3M/SI	416	N/A	1.36
ADILED2/MWS	184, 248	61	1.23	ADP2	361	N/A	0.88	AE3LED/3M/W	416	N/A	1.36
ADILED2/MWS/M3	184, 248	61	1.50	ADP218/HF	367	N/A	1.32	AE3LED/3M/W/ST	416	N/A	1.36
ADILED2/MMS/M3/CF	184, 248	61	1.50	ADP236/HF	367	N/A	2.88	AE3LED/ALAR	416	N/A	N/A
ADK120W/24V	150	N/A	0.40	ADP236/HF/M3	367	N/A	3.61	AE3LED/L/AD	416	N/A	N/A
ADK12W/700	62, 151	N/A	0.06	ADP236/HFDD	367	N/A	2.88	AE3LED/L/AU	416	N/A	N/A
ADK15W/24V	150, 266, 320	N/A	0.06	ADP236/HFDD/M3	367	N/A	3.61	AECELED/CH	240	98-101	1.59
ADK20W/350	61, 151, 312	N/A	0.07	ADP258/HF	367	N/A	3.40	AECELED/CH/DD	240	98-101	1.59
ADK20W/700	62, 151	N/A	0.07	ADP258/HF/M3	367	N/A	4.26	AECELED/CH/DD/M3	240	98-101	4.09
ADK60W/24V	150, 266, 320	N/A	0.31	ADP258/HFDD	367	N/A	3.40	AECELED/CH/M3	240	98-101	4.09
ADK75W/48V	150, 323, 333	N/A	0.32	ADP258/HFDD/M3	367	N/A	4.26	AECELED/CH/MWS	240	98-101	1.69
ADLC/0	97	N/A	N/A	ADP270/HF	367	N/A	4.03	AECELED/CH/MWS/M3	240	98-101	4.19
ADLC/1	97	N/A	N/A	ADP270/HF/M3	367	N/A	5.02	AECELED/SC	240	98-101	1.59
ADLC/2	97	N/A	N/A	ADP2X2	361	N/A	1.32	AECELED/SC/DD	240	98-101	1.59
ADLC/3	97	N/A	N/A	ADP2X4	361	N/A	2.47	AECELED/SC/DD/M3	240	98-101	4.09



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AECLED/SC/MWS	240	98-101	1.69	AFRLED230/MWW	56	61	0.70	AGPL/DG3/SC	52	N/A	N/A
AECLED/SC/MWS/M3	240	98-101	4.19	AFT/2	97	N/A	N/A	AGPL/DG3/W	52	N/A	N/A
AECLED/W	240	98-101	1.59	AFWLED/SC	148	46	0.43	AGPL/TB/CH	52	N/A	N/A
AECLED/W/DD	240	98-101	1.59	AFWLED/W	148	46	0.43	AGPL/TB/SC	52	N/A	N/A
AECLED/W/DD/M3	240	98-101	4.09	AG8/3M	415	N/A	2.80	AGWOLED/RGB	323	N/A	1.17
AECLED/W/M3	240	98-101	4.09	AG8/L/AD	414, 415	N/A	N/A	AGYSLED/1	72	77	0.75
AECLED/W/MWS	240	98-101	1.69	AG8/L/LAL	414, 415	N/A	N/A	AGYSLED/2	72	82	1.18
AECLED/W/MWS/M3	240	98-101	4.19	AG8/L/AR	414, 415	N/A	N/A	AHARLED/3M/ST	417	N/A	0.81
AEFRD/CH	83	N/A	0.18	AG8/L/AU	414, 415	N/A	N/A	AHARLED/ALAR	417	N/A	N/A
AEFRD/IP65/CH	85	N/A	0.19	AGALED/1/CCT	52	98-103	1.00	AHARLED/L/AD	417	N/A	N/A
AEFRD/IP65/MW	85	N/A	0.19	AGALED/1/CCT/DD	52	98-103	1.00	AHARLED/L/AU	417	N/A	N/A
AEFRD/IP65/SC	85	N/A	0.19	AGALED/1/CCT/DD/M3	52	98-103	4.12	AHAWOLED	329	73	3.60
AEFRD/MW	83	N/A	0.18	AGALED/1/CCT/M3	52	98-103	4.12	AIBOX	78	N/A	N/A
AEFRD/SC	83	N/A	0.18	AGALED/2/CCT	52	112	1.00	AIGLED/CW	62	31	0.07
AEFRG/CH	84	N/A	0.19	AGALED/2/CCT/DD	52	112	1.00	AIGLED/MW	62	28	0.07
AEFRG/MW	84	N/A	0.19	AGALED/2/CCT/DD/M3	52	112	4.12	AINLED	399	80	2.50
AEFRG/SC	84	N/A	0.19	AGALED/2/CCT/M3	52	112	4.12	AINLED/DD	399	80	2.52
AEFRISD	83, 85	N/A	0.02	AGALSQLED	198	30	0.72	AINLED/DD/M3	399	80	3.72
AEFRISG	84	N/A	0.02	AGAMLED	180, 244	93	1.28	AINLED/DD/MWS	399	80	2.54
AENLED/3M/SG	412	N/A	0.70	AGAMLED/M3	180, 244	93	1.51	AINLED/DD/MWS/M3	399	80	3.13
AENLED/3M/W	412	N/A	0.70	AGAMLED/MWS	180, 244	93	1.30	AINLED/M3	399	80	3.09
AENLED/3M/W/ST	412	N/A	0.70	AGAMLEDMWSM3	180, 244	93	1.53	AINLED/MWS	399	80	2.54
AEQTCC	63	N/A	0.12	AGAMLEDWW	180, 244	86	1.28	AINLED/MWS/M3	399	80	3.13
AERMLED/120/CW	392	87	5.50	AGAMLEDWWM3	180, 244	86	1.51	AIRMLED/CW	388	81	7.50
AERMLED/120/DL	392	86	5.50	AGAMLEDWWMWS	180, 244	86	1.30	AIRMLED/CW/DD	388	81	7.55
AERMLED/120/MW	392	87	5.50	AGAMLEDWWMWSM3	180, 244	86	1.53	AIRMLED/POD/3NM/ST	388	N/A	0.95
AERMLED/30/CW	391	101	3.10	AGAMLEDBZ/CH	180, 244	N/A	0.13	AIRMLED/POD/MWS	388	N/A	0.21
AERMLED/30/DL	391	102	3.10	AGDLED	396	89	5.23	AIRMLED/PRK	388	N/A	2.05
AERMLED/30/MW	391	95	3.10	AGDLED/BLA	396	N/A	N/A	AIRMLED/SK	388	N/A	0.17
AERMLED/60/CW	390	100	2.90	AGDLED/DD	396	89	5.25	AIRMLED/SMF	388	N/A	4.28
AERMLED/60/CW/DD	390	100	2.90	AGDLED/DD/M3	396	89	5.84	AIRMLED/MW	388	75	7.50
AERMLED/60/DL	390	102	2.90	AGDLED/DD/MWS	396	89	5.29	AIRMLED/MW/DD	388	75	7.55
AERMLED/60/DL/DD	390	102	2.90	AGDLED/DD/MWS/M3	396	89	5.88	AJALED	181	66	1.09
AERMLED/60/MW	390	98	2.90	AGDLED/M3	396	89	5.82	AJALED/M3	181	66	1.54
AERMLED/60/MW/DD	390	98	2.90	AGDLED/MWS	396	89	5.27	AJALED/MWS	181	66	1.11
AEWLED/SG	176, 267	7	0.32	AGDLED/MWS/M3	396	89	5.86	AJALED/MWS/M3	181	66	1.56
AEWLED/W	176, 267	7	0.32	AGDLED/WLA	396	N/A	N/A	AJALED/MWS/M3/CF	181	66	1.56
AFAFC/OAK	147	N/A	0.14	AGELED2X4	383	109	4.82	AJALEDBZ/CH	181	N/A	0.26
AFAFC/W	147	N/A	0.33	AGELED2X4/DD	383	109	4.82	AJDLEDP/MW/B	132	73	0.48
AFAFC/WAL	147	N/A	0.14	AGELED2X4/DD/M3	383	109	7.80	AJDLEDP/MW/W	132	73	0.48
AFALED/ER/3NM/ST	69, 425	N/A	0.58	AGELED2X4/M3	383	109	7.80	AJSLEDP/MW/B	131	53	0.48
AFALED/OA/3NM/ST	69, 425	N/A	0.58	AGELED2X5	383	100	5.76	AJSLEDP/MW/W	131	53	0.48
AFAMIWL/BASE	146, 247	76	0.44	AGELED2X5/DD	383	100	5.76	AKLED/B	201	60	0.75
AFBL/EYE	274	N/A	0.10	AGELED2X5/DD/M3	383	100	8.74	AKLED/SG	201	60	0.75
AFBL/GRILL	274	N/A	0.16	AGELED2X5/M3	383	100	8.74	AKTLED/3M/ST	408	N/A	0.50
AFBLLED	274	66	0.84	AGLED/3M	406	N/A	0.71	ALCB	285	N/A	N/A
AFGS/GU10LED	317	N/A	0.38	AGLED/KIT	406	N/A	N/A	ALE27/HAL/BCO	283	N/A	2.45
AFRLED/M3/ST	56	N/A	0.95	AGLED/WL	230	18	1.02	ALE27/HAL/BL	283	N/A	2.15
AFRLED125/CW	56	66	0.26	AGLEDB/700	297	18	3.98	ALE27/WL/BCO	283	N/A	2.15
AFRLED125/MW	56	59	0.26	AGPL/DG1/CH	52	N/A	N/A	ALE27/WL/BL	283	N/A	2.15
AFRLED170/CW	56	70	0.34	AGPL/DG1/SC	52	N/A	N/A	ALE27/WL/SS	282	N/A	2.27
AFRLED170/MW	56	61	0.34	AGPL/DG1/W	52	N/A	N/A	ALED/CP/CH	23	N/A	0.26



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ALEDPC/SC	23	N/A	0.23	AME27045/BL	304	N/A	2.50	AMLED200/PC	345	101	14.10
ALEDKL/120	169	100	0.79	AME27045/SS	304	N/A	3.28	AMLED30	344	91	3.60
ALEDKL/120/WW	169	95	0.79	AME27075/BL	304	N/A	2.70	AMLED30/PIR	344	91	3.70
ALEDKL/30	169	89	0.31	AME27075/SS	305	N/A	3.34	AMLED50	344	96	5.88
ALEDKL/30/WW	169	89	0.31	AME27100/BL	304	N/A	4.00	AMLED50/PC	344	96	6.48
ALEDKL/60	169	103	0.44	AME27100/SS	305	N/A	6.70	AMONGU10B	103, 106, 117	N/A	0.11
ALEDKL/60/WW	169	87	0.44	AMELEDER3NMST	424,68	N/A	0.81	AMONGU10SS	103, 107,124	N/A	0.11
ALEDKL/90	169	111	0.63	AMELEDOA3NMST	424, 68	N/A	0.81	AMONGU10W	107, 110, 116	N/A	0.11
ALEDKL/90/WW	169	92	0.63	AMERLED	242	72	1.97	AMPLED	178	12	0.69
ALGU10/1	86	N/A	0.24	AMERLED/DD	242	72	2.00	AMRLED1/GR	358	92	6.30
ALGU10/1/MW	86	N/A	0.24	AMERLED/DD/M3	242	72	2.50	AMRLED1/GR/CPC	358	92	6.30
ALGU10/2	86	N/A	0.44	AMERLED/HP	242	82	2.45	AMRLED1/W	358	92	6.30
ALGU10/2/MW	86	N/A	0.44	AMERLED/HP/DD	242	82	2.48	AMRLED1/W/CPC	358	92	6.30
ALGU10/3	86	N/A	0.67	AMERLED/HP/DD/M3	242	82	2.98	AMRLED2/GR	358	110	6.60
ALGU10/3/MW	86	N/A	0.67	AMERLED/HP/M3	242	82	2.72	AMRLED2/GR/CPC	358	110	6.60
ALGU10S/B	117	N/A	0.13	AMERLED/HP/MWS	242	82	2.55	AMRLED2/W	358	110	6.60
ALGU10S/SS	117	N/A	0.13	AMERLEDHPMWSM3	242	82	2.83	AMRLED2/W/CPC	358	110	6.60
ALGU10S/W	117	N/A	0.13	AMERLED/M3	242	72	2.24	AMRLED3/GR	358	112	6.60
ALHL/BL	280	N/A	0.76	AMERLED/MWS	242	72	2.07	AMRLED3/GR/CPC	358	112	6.60
ALHL/PC/BL	280	N/A	0.79	AMERLED/MWS/M3	242	72	2.35	AMRLED3/W	358	112	6.60
ALHL/PC/WH	280	N/A	0.79	AMERLEDBZ/CH	242	N/A	0.25	AMRLED3/W/CPC	358	112	6.60
ALHL/PIR/BL	280	N/A	0.79	AMETLED	312	91	1.11	AMRLED4/GR	358	100	6.60
ALHL/PIR/WH	280	N/A	0.79	AMICD/AB	78	N/A	0.24	AMRLED4/GR/CPC	358	100	6.60
ALHL/WH	280	N/A	0.76	AMICD/BLC	78	N/A	0.24	AMRLED4/W	358	100	6.60
ALIB/100E27	307	N/A	3.00	AMICD/BR	78	N/A	0.24	AMRLED4/W/CPC	358	100	6.60
ALIBLED/BLU	273	60	0.43	AMICD/CH	78	N/A	0.24	AMT1/B	101	N/A	0.50
ALIBLED/WHI	273	24	0.43	AMICD/IP65/AB	81	N/A	0.33	AMT1/SS	101	N/A	0.50
ALVP/3M	427, 70	N/A	1.36	AMICD/IP65/BLC	81	N/A	0.33	AMT1/W	101	N/A	0.50
ALWL/BL	281	N/A	0.69	AMICD/IP65/BR	81	N/A	0.33	AMT2/B	101	N/A	1.00
ALWL/CBB	281	N/A	N/A	AMICD/IP65/CH	81	N/A	0.33	AMT2/SS	101	N/A	1.00
ALWL/CBW	281	N/A	N/A	AMICD/IP65/MW	81	N/A	0.33	AMT2/W	101	N/A	1.00
ALWL/PIR/BL	281	N/A	0.72	AMICD/IP65/SC	81	N/A	0.33	AMTA/B	103	N/A	N/A
ALWL/PIR/WH	281	N/A	0.72	AMICD/IP65/W	81	N/A	0.33	AMTA/SS	103	N/A	N/A
ALWL/WH	281	N/A	0.69	AMICD/MW	78	N/A	0.24	AMTA/W	103	N/A	N/A
ALWOLED	331	58	3.77	AMICD/SC	78	N/A	0.24	AMTBC/B	102	N/A	N/A
ALWPLED	351	60	1.60	AMICD/W	78	N/A	0.24	AMTBC/SS	102	N/A	N/A
ALWPLED/M3	351	60	3.30	AMICG/AB	80	N/A	0.26	AMTBC/W	102	N/A	N/A
ALWPLED/MWS	351	60	2.00	AMICG/BLC	80	N/A	0.26	AMTDE/B	102	N/A	N/A
ALWPLED/PC	351	60	2.20	AMICG/BR	80	N/A	0.26	AMTDE/SS	102	N/A	N/A
ALY2X35GU10/GR	224	N/A	1.90	AMICG/CH	80	N/A	0.26	AMTDE/W	102	N/A	N/A
ALY2X35GU10/SI	224	N/A	1.90	AMICG/MW	80	N/A	0.26	AMTFC/B	103	N/A	N/A
ALY67LED	314	62	0.43	AMICG/SC	80	N/A	0.26	AMTFC/SS	103	N/A	N/A
AMALED120/CW	167	97	0.60	AMICG/W	80	N/A	0.26	AMTFC/W	103	N/A	N/A
AMALED120/WW	167	97	0.36	AMICRO2P	217	N/A	N/A	AMTLC/PI/B	103	N/A	N/A
AMALED20/CW	167	91	0.15	AMIFC/OAK	146	N/A	0.16	AMTLC/PI/SS	103	N/A	N/A
AMALED20/WW	167	82	0.15	AMIFC/W	146	N/A	0.42	AMTLC/PI/W	103	N/A	N/A
AMALED50/CW	167	101	0.21	AMIFC/WAL	146	N/A	0.16	AMTLC/PO/B	103	N/A	N/A
AMALED50/WW	167	92	0.21	AMLED/KIT/TUNE	162	N/A	0.40	AMTLC/PO/SS	103	N/A	N/A
AMALED80/CW	167	98	0.30	AMLED10	344	72	1.30	AMTLC/PO/W	103	N/A	N/A
AMALED80/WW	167	93	0.30	AMLED10/PIR	344	72	1.40	AMTLE/PL/B	102	N/A	N/A
AMATROLED	199	36	0.66	AMLED100	345	96	9.00	AMTLE/PL/SS	102	N/A	N/A
AMCD25W	312,152,61	N/A	N/A	AMLED100/PC	345	96	9.60	AMTLE/PL/W	102	N/A	N/A



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AMTLE/PR/SS	102	N/A	N/A	AOLEDL80/SEN3/M3	357	120	9.26	APLED/CW	266	35	0.33
AMTLE/PR/W	102	N/A	N/A	AORBLEDCW	22	77	0.30	APLED/MWW	266	35	0.33
AMTP1/SS	100	N/A	N/A	AORBLEDDIMMER	23	N/A	0.32	APLEDDVRL	186	55	0.53
AMTP1/W	100	N/A	N/A	AORBLEDCW/GIM	22	77	0.35	APOLED10	342	85	0.85
AMTSC/B	102	N/A	N/A	AORBLEDCW/GIM/MWW	22	75	0.32	APOLED100	343	80	4.20
AMTSC/SS	102	N/A	N/A	AORBLEDCW/MWW	22	75	0.30	APOLED100/PC	343	80	4.26
AMTSC/W	102	N/A	N/A	AORBLEDCW/AB	23	N/A	0.04	APOLED200	343	78	6.45
AMTSK	103	N/A	N/A	AORBLEDCW/BLC	23	N/A	0.04	APOLED200/PC	343	78	7.05
AMTTC/PI/B	103	N/A	N/A	AORBLEDCW/BR	23	N/A	0.04	APOLED30	342	71	1.30
AMTTC/PI/SS	103	N/A	N/A	AORBLEDCW/CH	23	N/A	0.04	APOLED50	343	80	2.00
AMTTC/PI/W	103	N/A	N/A	AORBLEDCW/SC	23	N/A	0.04	APOLED50/PC	343	80	2.60
AMTTC/PO/B	103	N/A	N/A	AORBLEDCW/SQ/AB	23	N/A	0.04	APRILED/CCTPACK	26	67-85	0.38
AMTTC/PO/SS	103	N/A	N/A	AORBLEDCW/SQ/BLC	23	N/A	0.04	APRILED/CW	24	98	0.38
AMTTC/PO/W	103	N/A	N/A	AORBLEDCW/SQ/BR	23	N/A	0.04	APRILED/MWW	24	96	0.38
AMTXC/B	102	N/A	N/A	AORBLEDCW/SQ/CH	23	N/A	0.04	APRILEDDBZ/CH	24	N/A	0.04
AMTXC/SS	102	N/A	N/A	AORBLEDCW/SQ/MW	23	N/A	0.04	APRILEDDBZ/SC	24	N/A	0.04
AMTXC/W	102	N/A	N/A	AORBLEDCW/SQ/SC	23	N/A	0.04	APRILED2X4	384	98	3.70
AMWSLED	315	24	0.56	AOSLED/3M	410	N/A	1.06	APRILED2X4/DD	384	98	3.72
ANE27/MPTL/BCO	285	N/A	2.60	AOSLED/3M/CS	410	N/A	1.10	APRILED2X4/DD/M3	384	98	4.31
ANE27/MPTL/BL	285	N/A	2.66	AOTLED2X5	381	74-116	3.30	APRILED2X4/DDM3/TW	384	98	4.31
ANE27/PIL/BCO	285	N/A	2.23	AOTLED2X5/DD	381	74-116	3.30	APRILED2X4/DDMWS	384	98	3.76
ANE27/PIL/BL	285	N/A	2.23	AOTLED2X5/DD/M3	381	74-116	3.30	APRILED2X4/DDMWSM3	384	98	4.35
ANE27/WLBA/BCO	285	N/A	2.14	AOTLED2X5/DD/MWS	381	74-116	3.30	APRILED2X4/DDMWSM3/TW	384	98	4.35
ANE27/WLBA/BL	285	N/A	2.14	AOTLED2X5/DDMWSM3	381	74-116	3.30	APRILED2X4/DDMWS/TW	384	98	3.76
ANE27/WLTA/BCO	285	N/A	2.19	AOTLED2X5/M3	381	74-116	3.30	APRILED2X4/DD/TW	384	98	7.72
ANE27/WLTA/BL	285	N/A	2.19	AOTLED2X5/MWS	381	74-116	3.30	APRILED2X4/M3	384	98	4.29
ANLED/045/GR	302	84	4.15	AOTLED2X5/MWS/M3	381	74-116	3.30	APRILED2X4/M3/TW	384	98	4.29
ANLED/045/SI	302	84	4.15	AOTLED5	381	74-112	3.30	APRILED2X4/MWS	384	98	3.72
ANLED/075/GR	302	84	4.70	AOTLED5/DD	381	74-112	3.30	APRILED2X4/MWSM3	384	98	4.33
ANLED/075/SI	302	84	4.70	AOTLED5/DD/M3	381	74-112	3.30	APRILED2X4/MWSM3/TW	384	98	4.33
ANLED/100/GR	302	84	5.10	AOTLED5/DD/MWS	381	74-112	3.30	APRILED2X4/MWS/TW	384	98	3.72
ANLED/100/SI	302	84	5.10	AOTLED5/DDMWSM3	381	74-112	3.30	APRILED2X4/TW	384	98	3.70
ANPS236/2/HF	387	N/A	3.50	AOTLED5/M3	381	74-112	3.30	APRILED2X5	384	100	4.50
ANPS236/2/HF/M3	387	N/A	4.20	AOTLED5/MWS	381	74-112	3.30	APRILED2X5/DD	384	100	4.52
ANPS258/2/HF	387	N/A	4.10	AOTLED5/MWS/M3	381	74-112	3.30	APRILED2X5/DD/M3	384	100	5.11
ANPS258/2/HF/M3	387	N/A	5.10	AOXLED2X4	386	109	2.57	APRILED2X5/DDM3/TW	384	100	5.11
ANPS270/2/HF	387	N/A	4.90	AOXLED2X4/DD	386	109	2.59	APRILED2X5/DDMWS	384	100	4.56
ANPS270/2/HF/M3	387	N/A	5.70	AOXLED2X4/DD/M3	386	109	3.17	APRILED2X5/DDMWSM3	384	100	5.15
ANSGU10/SC	75	N/A	0.45	AOXLED2X4/M3	386	109	3.15	APRILED2X5/DDMWSM3/TW	384	100	5.15
ANSGU10/W	75	N/A	0.45	AOXLED2X5	386	111	3.24	APRILED2X5/DDMWS/TW	384	100	4.56
AOCOMMISSION	357	N/A	N/A	AOXLED2X5/DD	386	111	3.26	APRILED2X5/DD/TW	384	100	4.52
AOCONTROLLER	357, 360	N/A	N/A	AOXLED2X5/DD/M3	386	111	3.84	APRILED2X5/M3	384	100	5.09
AOLEDL55/SEN1	357	135	4.73	AOXLED2X5/M3	386	111	3.82	APRILED2X5/M3/TW	384	100	5.09
AOLEDL80/SEN1	357	120	8.86	APCLEDWL	271	45	0.67	APRILED2X5/MWS	384	100	4.54
AOLEDL55	357	135	3.83	APCU/E27	139	N/A	0.90	APRILED2X5/MWSM3	384	100	5.13
AOLEDL55/M3	357	135	4.33	APESLED/B	260	85	0.92	APRILED2X5/MWSM3/TW	384	100	5.13
AOLEDL55/SEN1/M3	357	135	5.23	APESLED/W	260	85	0.92	APRILED2X5/MWS/TW	384	100	4.54
AOLEDL55/SEN3	357	135	4.73	APILED	212	32	2.87	APRILED2X5/TW	384	100	4.50
AOLEDL55/SEN3/M3	357	135	5.23	APILED/M3	212	32	3.65	APRILED2X6	384	101	5.30
AOLEDL80	357	120	8.01	APILED/MWS	212	32	2.87	APRILED2X6/DD	384	101	5.32
AOLEDL80/M3	357	120	8.91	APILED/SG	212	32	2.87	APRILED2X6/DDM3	384	101	5.91
AOLEDL80/SEN1/M3	357	120	9.26	APILED/SG/M3	212	32	3.65	APRILED2X6/DDM3/TW	384	101	5.91

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APRLED2X6DDMWSM3	384	101	5.95	APRLED6/M3/TW	384	107	5.69	ASBP/5	417	N/A	0.15
APRLED2X6DDMWSM3/TW	384	101	5.95	APRLED6/MWS	384	107	5.14	ASBP/6	419	N/A	0.54
APRLED2X6DDMWS/TW	384	101	5.36	APRLED6/MWS/M3	384	107	5.73	ASBP/7	420	N/A	0.35
APRLED2X6DD/TW	384	101	5.32	APRLED6/MWS/M3/TW	384	107	5.73	ASBP/8	421, 64	N/A	0.20
APRLED2X6/M3	384	101	5.89	APRLED6/MWS/TW	384	107	5.14	ASBP/9	422, 424, 66	N/A	0.42
APRLED2X6/M3/TW	384	101	5.89	APRLED6/TW	384	107	5.10	ASCO75/B	262	N/A	0.62
APRLED2X6/MWS	384	101	5.34	APRLED6/TW	384	107	5.10	ASCO75/W	262	N/A	0.62
APRLED2X6/MWS/M3	384	101	5.93	APRLED6/TW	384	107	5.10	ASCOEYE/B	262	N/A	0.23
APRLED2X6/MWS/M3/TW	384	101	5.93	APWOLED	327	58	1.75	ASCOEYE/W	262	N/A	0.23
APRLED2X6/MWS/TW	384	101	5.34	APYLED/KIT/CW	160	80	0.36	ASCU/E27	139	N/A	1.01
APRLED2X6/TW	384	101	5.30	APYLED/KIT/WW	160	75	0.36	ASELED/WL	203	52	0.50
APRLED4	384	114	3.50	AQMB	212, 215, 216	N/A	1.70	ASELED/WL/PIR	203	52	0.55
APRLED4/DD	384	114	3.52	AQMB/SG	212, 215, 216	N/A	1.70	ASELEDB/060	293	52	1.09
APRLED4/DD/M3	384	114	4.11	AQULED	210	57	1.48	ASELEDB/060/PIR	293	52	1.18
APRLED4/DD/M3/TW	384	114	4.11	AQULED/MWS	210	57	1.48	ASELEDB/100	293	52	1.70
APRLED4/DD/MWS	384	114	3.56	AQULED/SG	210	57	1.48	ASELEDB/100/PIR	293	52	1.75
APRLED4DDMWSM3	384	114	4.15	AQULED/SG/MWS	210	57	1.48	ASEN1	360, 372	N/A	0.10
APRLED4DDMWSM3/TW	384	114	4.15	ARALEDER3NMST	423, 67	N/A	0.37	ASEN1/IP65	360, 361, 367	N/A	0.12
APRLED4DDMWS/TW	384	114	3.56	ARALEDOA3NMST	423, 67	N/A	0.37	ASEN3	360, 372	N/A	0.10
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APRLED4/MWS	384	114	3.54	ARCLED/WW/WW	172	66	0.09	ASGU10L	97	N/A	N/A
APRLED4/MWS/M3	384	114	4.13	ARCU/E27	139	N/A	1.50	ASK1	383	N/A	N/A
APRLED4/MWS/M3/TW	384	114	4.13	ARE27/HL/BL	278	N/A	2.17	ASLED/3NM	421, 58, 64	N/A	0.36
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APRLED5/DD	384	104	4.32	ARGBC/R24V	309, 332, 350	N/A	1.75	ASLED2X4/DD/MWS	363	79	3.18
APRLED5/DD/M3	384	104	4.91	ARGBC/R/350	323, 333	N/A	0.10	ASLED2X4DDMMWSM3	363	79	3.70
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APRLED5/DD/MWS/M3	384	104	4.95	ARLEDTL/WW	171	56	0.09	ASLED2X4/MWS/M3	363	79	3.68
APRLED5DDMMWSM3/TW	384	104	4.95	ARMK2	302	N/A	N/A	ASLED2X5	363	84	4.00
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APRLED5DD/TW	384	104	4.32	AROLEDSSS	311	60	1.29	ASLED2X5/DD/M3	363	84	4.59
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APRLED5/MWS/TW	384	104	4.43	ASBLED/MWS	263	73	0.49	ASLED2X6	363	83	4.91
APRLED5/TW	384	104	4.30	ASBLED/PC	263	73	0.49	ASLED2X6/DD	363	83	4.93
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APRLED6/DD/M3/TW	384	107	5.71	ASBP/12	56	N/A	0.86	ASLED2X6/M3	363	83	5.48
APRLED6/DD/MWS	384	107	5.16	ASBP/14	67, 423	N/A	0.06	ASLED2X6/MWS	363	83	4.93
APRLED6/DD/MWS/M3	384	107	5.75	ASBP/15	410	N/A	0.07	ASLED2X6/MWS/M3	363	83	5.50
APRLED6DDMMWSM3/TW	384	107	5.75	ASBP/16	410	N/A	0.34	ASLED4	363	82	2.10
APRLED6DD/MWS/TW	384	107	5.16	ASBP/17	208, 290	N/A	0.38	ASLED4/DD	363	82	2.12
APRLED6DD/TW	384	107	5.12	ASBP/2	406, 409, 412	N/A	0.15	ASLED4/DD/M3	363	82	2.70
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AULED80D/M3	30	70	1.40	AULEDTP/WW/W	99	63	1.84	AVISLED/WL/PIR	206	63	1.47
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AULED80GIM/M3	31	70	1.42	AUSQLED125D/CW	38	91	0.70	AWCALED10WW/PIR	348	89	0.43
AULED80GIM/WW	31	60	0.32	AUSQLED125D/CW/DD	38	91	0.70	AWCALED20	348	96	0.53
AULED80GIM/WW/DD	31	60	0.34	AUSQLED125DCWDDM3	38	91	0.70	AWCALED20/PIR	348	96	0.63
AULED80GIM/WW/DDM3	31	60	1.44	AUSQLED125DCWM3	38	91	0.70	AWCALED20/WW	348	90	0.53
AULED80GIM/WW/M3	31	60	1.42	AUSQLED150DHP/CW	39	92	0.75	AWCALED20WW/PIR	348	90	0.63
AULEDGCP/CW	28	37	0.13	AUSQLED150DHP/CW/DD	39	92	0.75	AWCALED30	349	97	0.57
AULEDGCP/WW	28	32	0.13	AUSQLED150DHP/CW/DDM3	39	92	0.75	AWCALED30/PIR	349	97	0.68
AULEDRECWW	44	85	1.50	AUSQLED150DHP/CW/M3	39	92	0.75	AWCALED30/WW	349	97	0.57
AULEDS0/CW/B	105	69	0.32	AVEGLED1/CW	55	84	0.50	AWCALED30WW/PIR	349	97	0.68
AULEDS0/CW/SS	105	69	0.32	AVEGLED1/CW/M3	55	84	2.52	AWCALED50	349	99	0.88
AULEDS0/CW/W	105	69	0.32	AVEGLED1/WW	55	84	0.50	AWCALED50/PIR	349	99	0.97
AULEDS0/WW/B	105	63	0.32	AVEGLED1/WW/M3	55	84	2.52	AWCALED50/WW	349	94	0.88
AULEDS0/WW/SS	105	63	0.32	AVEGLED2/CW	55	84	0.50	AWCALED50WW/PIR	349	94	0.97
AULEDS0/WW/W	105	63	0.32	AVEGLED2/CW/M3	55	84	2.52	AWL4LED/PP	268	N/A	N/A
AULEDS1/B	106	63	0.67	AVEGLED2/WW	55	83	0.50	AWL4LED/WHI	268	11	0.30
AULEDS1/SS	106	63	0.67	AVEGLED2/WW/M3	55	83	2.52	AWL4LED/WP	268	N/A	N/A
AULEDS1/W	106	63	0.67	AVENLED	398	77	4.22	AWLED/3M	414	N/A	1.02
AULEDS1/WW/B	106	63	0.67	AVENLED/DD	398	77	4.22	AWO3LED/WHI	322	3	0.45
AULEDS1/WW/SS	106	63	0.67	AVENLED/DD/M3	398	77	5.31	AWO/GU10	335	N/A	1.26
AULEDS1/WW/W	106	63	0.67	AVENLED/M3	398	77	5.31	AWO50	334	N/A	1.08
AULEDS2/B	107	93	0.78	AVILED/GR	255	61	1.93	AWOSQ3LED/WHI	322	3	0.53
AULEDS2/SS	107	93	0.78	AVILED/GR/M3	255	61	2.29	AZGU10S/SS	116	N/A	0.11
AULEDS2/W	107	93	0.78	AVILED/GR/MWS	255	61	1.95	AZGU10S/W	116	N/A	0.11
AULEDS2/WW/B	107	86	0.78	AVILED/GR/MWS/M3	255	61	2.37	AZTR/SS	116	N/A	N/A
AULEDS2/WW/SS	107	86	0.78	AVILED/HP/GR	255	78	2.36	AZTRW	116	N/A	N/A
AULEDS2/WW/W	107	86	0.78	AVILED/HP/GR/M3	255	78	2.72				
AULEDS3/B	109	88	1.15	AVILED/HP/GR/MWS	255	78	2.38				
AULEDS3/SS	109	88	1.15	AVILEDHP/GRMWSM3	255	78	2.80				
AULEDS3/W	109	88	1.15	AVILED/HP/SG	255	78	2.36				
AULEDS3/WW/B	109	78	1.15	AVILED/HP/SG/M3	255	78	2.72				
AULEDS3/WW/SS	109	78	1.15	AVILED/HP/SG/MWS	255	78	2.38				
AULEDS3/WW/W	109	78	1.15	AVILEDHP/SGMWSM3	255	78	2.80				
AULEDS4/B	110	93	1.45	AVILED/HP/W	255	78	2.36				
AULEDS4/SS	110	93	1.45	AVILED/HP/W/M3	255	78	2.72				
AULEDS4/W	110	93	1.45	AVILED/HP/W/MWS	255	78	2.38				
AULEDS4/WW/B	110	88	1.45	AVILEDHPW/MWSM3	255	78	2.80				
AULEDS4/WW/SS	110	88	1.45	AVILED/SG	255	61	1.93				



# Terms & Conditions

## Conditions of Sale

### 1. INTERPRETATION

- 1.1 The definitions and rules of interpretation in this condition apply in these conditions.  
 Customer: the person, firm or company who purchases the Goods from the Company.  
 Company: Ansell Lighting  
 Contract: any contract between the Company and the Customer for the sale and purchase of the Goods, incorporating these conditions.  
 Delivery Point: the place where delivery of the Goods is to take place under condition 4.  
 Goods: any goods agreed in the Contract to be supplied to the Customer by the Company (including any part or parts of them).  
 A reference to a law is a reference to it as it is in force for the time being taking account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.
- 1.2 Words in the singular include the plural and in the plural include the singular.  
 1.3 A reference to one gender includes a reference to the other gender.  
 1.4 Condition headings do not affect the interpretation of these conditions.

### 2. APPLICATION OF TERMS

- 2.1 Subject to any variation under condition 2.3 the Contract shall be on these conditions to the exclusion of all other terms and conditions (including any terms or conditions which the Customer purports to apply under any purchase order, confirmation of order, specification or other document).
- 2.2 No terms or conditions endorsed on, delivered with or contained in the Customer's purchase order, confirmation of order, specification or other document shall form part of the Contract simply as a result of such document being referred to in the Contract.
- 2.3 These conditions apply to all the Company's sales and any variation to these conditions and any representations about the Goods shall have no effect unless expressly agreed in writing and signed by a duly authorised officer of the Company. The Customer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Company which is not set out in the Contract. Nothing in this condition shall exclude or limit the Company's liability for fraudulent misrepresentation.
- 2.4 Each order for Goods by the Customer from the Company shall be deemed to be an offer by the Customer to buy Goods subject to these conditions.
- 2.5 No order placed by the Customer shall be deemed to be accepted by the Company until the Company delivers the Goods to the Customer.
- 2.6 The Customer shall ensure that the terms of its order and any applicable specification are complete and accurate and in writing.
- 2.7 Any quotation is valid for a period of 30 days only from its date, provided that the Company has not previously withdrawn it.

### 3. DESCRIPTION

All samples, drawings, descriptive matter, specifications and advertising issued by the Company and any descriptions or illustrations contained in the Company's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They shall not form part of the Contract and this is not a sale by sample.

### 4. DELIVERY

- 4.1 Unless otherwise agreed in writing by the Company, delivery of the Goods shall take place at the Customer's place of business unless the Goods are collected by the Customer when delivery shall take place at the Company's place of business.
- 4.2 Any dates specified by the Company for delivery of the Goods are intended to be an estimate and time for delivery shall not be made of the essence by notice. If no dates are so specified, delivery shall be within a reasonable time.
- 4.3 Subject to the other provisions of these conditions the Company shall not be liable for any direct, indirect or consequential loss (all three of which terms include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and similar loss), costs, damages, charges or expenses caused directly or indirectly by any delay in the delivery of the Goods (even if caused by the Company's negligence), nor shall any delay entitle the Customer to terminate or rescind the Contract unless such delay exceeds 90 days. The Customer shall provide at the Delivery Point and at its expense adequate and appropriate equipment and manual labour for loading the Goods.
- 4.4 The Company may deliver the Goods by separate instalments. Each separate instalment shall be invoiced and paid for in accordance with the provisions of the Contract.
- 4.5 Each instalment shall be a separate Contract and no cancellation or termination of any one Contract relating to an instalment shall entitle the Customer to repudiate or cancel any other Contract or instalment.

### 5. NON-DELIVERY

- 5.1 The quantity of any consignment of Goods as recorded by the Company on despatch from the Company's place of business shall be conclusive evidence of the quantity received by the Customer on delivery unless the Customer can provide conclusive evidence proving the contrary.
- 5.2 The Company shall not be liable for any non-delivery of Goods (including shortage in quantity of Goods delivered) (even if caused by the Company's negligence) unless the Customer gives written notice to the Company of the non-delivery or shortage in quantity within three days of the date when the Goods would in the ordinary course of events have been received or in the case of a shortfall in quantity the remaining Goods have been received.
- 5.3 Any liability of the Company in relation to this clause 5 shall be limited to replacing the non delivered Goods within a reasonable time or issuing a credit note at the pro rata Contract rate against any invoice raised for such Goods.

### 6. RISK/TITLE

- 6.1 The Goods are at the risk of the Customer from the time of delivery.
- 6.2 Ownership of the Goods shall not pass to the Customer until the Company has received in full (in cash or cleared funds) all sums due to it in respect of:
- (a) the Goods; and
  - (b) all other sums which are or which become due to the Company from the Customer on any account.
- 6.3 Until ownership of the Goods has passed to the Customer, the Customer shall:
- (a) hold the Goods on a fiduciary basis as the Company's bailee;
  - (b) store the Goods (at no cost to the Company) separately from all other goods of the Customer or any third party in such a way that they remain readily identifiable as the Company's property;
  - (c) not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods; and
  - (d) maintain the Goods in satisfactory condition and keep them insured on the Company's behalf for their full price against all risks to the reasonable satisfaction of the Company. On request the Customer shall produce the policy of insurance to the Company.

## Terms & Conditions

- 6.4 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
  - 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
  - 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**
- 9.1 The Company warrants that (subject to the other provisions of these conditions) on delivery and for a period of 12 months from the date of delivery the Goods shall be of satisfactory quality within the meaning of the Sale of Goods Act 1979
- 9.2 The Company shall not be liable for a breach of the warranty in condition 9.1 unless:
- 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
  - 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
  - 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
  - for fraud or fraudulent misrepresentation.
- 10.3 Subject to condition 10.1:
- the Company's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of the Contract shall be limited to the Contract price; and

- (b) the Company shall not be liable to the Customer for loss of profit, loss of business, or depletion of goodwill in each case whether direct, indirect or consequential, or any claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.

**11. ASSIGNMENT**

- 11.1 The Company may assign the Contract or any part of it to any person, firm or company.  
11.2 The Customer shall not be entitled to assign the Contract or any part of it without the prior written consent of the Company.

**12. FORCE MAJEURE**

The Company reserves the right to defer the date of delivery or to cancel the Contract or reduce the volume of the Goods ordered by the Customer (without liability to the Customer) if it is prevented from or delayed in the carrying on of its business due to circumstances beyond the reasonable control of the Company including, without limitation, acts of God, governmental actions, war or national emergency, acts of terrorism, protests, riot, civil commotion, fire, explosion, flood, epidemic, lock-outs, strikes or other labour disputes (whether or not relating to either party's workforce), or restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials, provided that, if the event in question continues for a continuous period in excess of 90 days, the Customer shall be entitled to give notice in writing to the Company to terminate the Contract.

**13. GENERAL**

- 13.1 Each right or remedy of the Company under the Contract is without prejudice to any other right or remedy of the Company whether under the Contract or not.  
13.2 If any provision of the Contract is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of the Contract and the remainder of such provision shall continue in full force and effect.  
13.3 Failure or delay by the Company in enforcing or partially enforcing any provision of the Contract shall not be construed as a waiver of any of its rights under the Contract.  
13.4 Any waiver by the Company of any breach of, or any default under, any provision of the Contract by the Customer shall not be deemed a waiver of any subsequent breach or default and shall in no way affect the other terms of the Contract.  
13.5 The parties to the Contract do not intend that any term of the Contract shall be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it.  
13.6 The formation, existence, construction, performance, validity and all aspects of the Contract shall be governed by the law appropriate to the country of residence of the Ansell company supplying the goods and the parties submit to the exclusive jurisdiction of the relevant courts.

**14. COMMUNICATIONS**

- 14.1 All communications between the parties about the Contract shall be in writing and delivered by hand or sent by pre-paid first class post or sent by fax:  
(a) (in case of communications to the Company) to its registered office and copied (if different from the Company's principal place of business as shown on the invoice rendered by the Company for the Goods) to said principal place of business or such changed address as shall be notified to the Customer by the Company; or  
(b) (in the case of the communications to the Customer) to the registered office of the addressee (if it is a company) or (in any other case) to any address of the Customer set out in any document which forms part of the Contract or such other address as shall be notified to the Company by the Customer.  
14.2 Communications shall be deemed to have been received:  
(a) if sent by pre-paid first class post, two days (excluding Saturdays, Sundays and bank and public holidays) after posting (exclusive of the day of posting); or  
(b) if delivered by hand, on the day of delivery; or  
(c) if sent by fax on a working day prior to 4.00 pm, at the time of transmission and otherwise on the next working day.

**15. ORDER VALUE**

- 15.1 Please contact the Ansell Sales Office for value of carriage paid orders.

**16. PURCHASE ORDERS**

- 16.1 Written and priced orders will only be accepted.

**17. DIRECT DELIVERIES**

- 17.1 Ansell are unable to accept any liability for lost or misplaced goods once they have been delivered with a clear signature at a specified direct delivery address.

**18. GOODS FOR RETURN**

- 18.1 Under no circumstances may goods be returned without a documented authorisation number from Ansell sales office. Unauthorised returns will not be accepted. Goods will only be accepted for the stated reason.  
18.2 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.  
18.3 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.  
18.4 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.



# 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, compatibility with other products. Ansell Lighting will not accept any responsibility or warrant any product that has been tampered with or has been changed, altered or wrongly installed. All statements, technical information, or recommendations relating to the products or parts issued by Ansell Lighting are based upon tests believed to be reliable, but do not constitute a guarantee or warranty. Ansell Lighting shall not under any circumstances be liable to any party for loss of profits, loss of goodwill, or any other special, consequential, or incidental damages whatsoever, with respect to any claim in connection with products or parts manufactured by Ansell Lighting or products or parts used in any product or products manufactured by Ansell Lighting

## EXCLUSIONS TO THE WARRANTY

The limited warranty shall be null and void in the following circumstances :-

1. Modification or repair of any covered product or part by the installer, end user or any non-authorized 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 12 month warranty only.













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LIGHTING CORP.



[www.anselluk.com](http://www.anselluk.com)