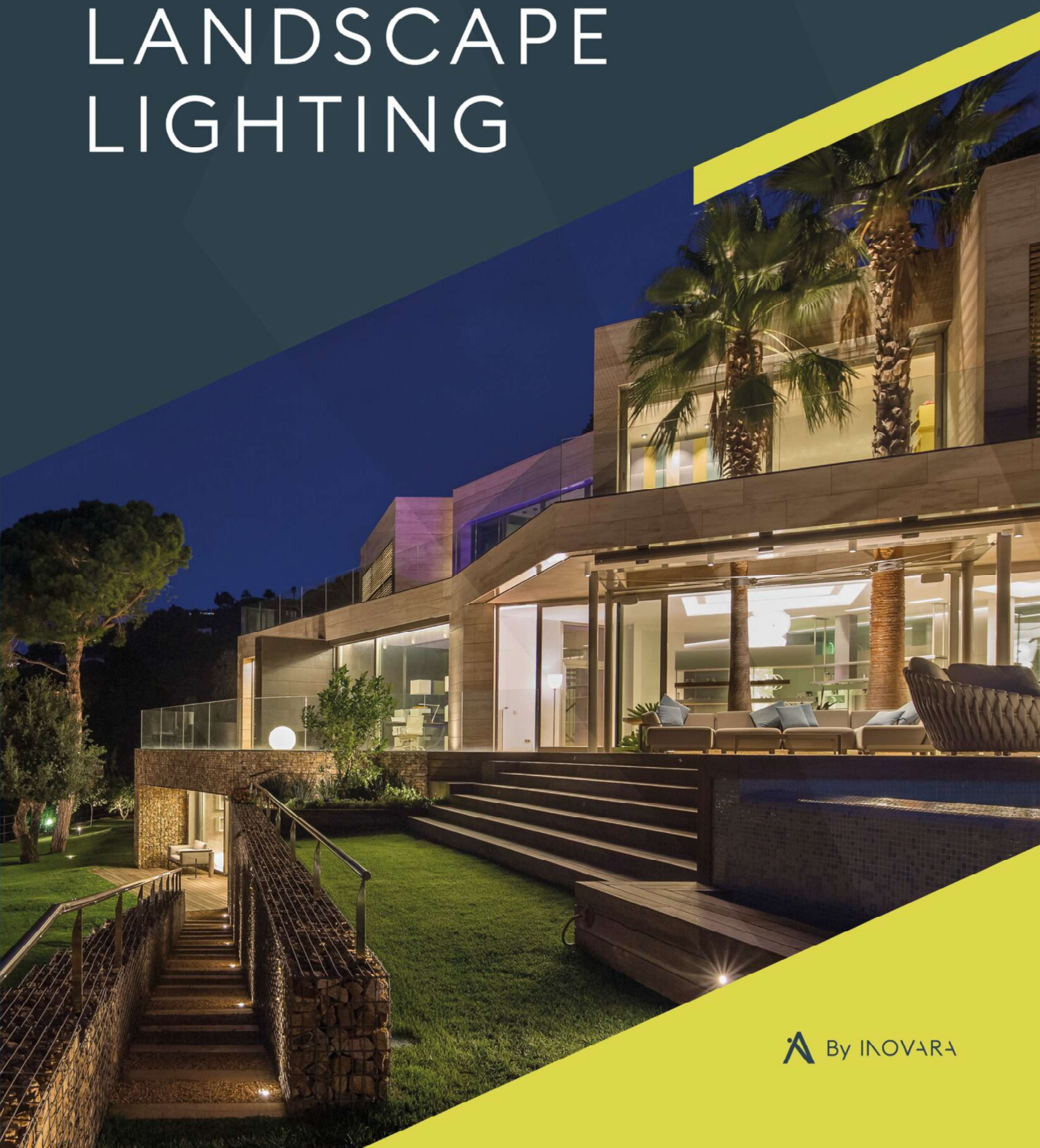




COLLINGWOOD  
LIGHTING

LIGHTING INNOVATION

# LANDSCAPE LIGHTING



 By INOVARA



INOVARA GROUP

# PREPARE TO BE ENLIGHTENED

## INOVARA GROUP

Inovara Group is the culmination of Collingwood Lighting, IBL, Indigo Lighting and Nobile Italia. We bring together technically advanced skills, innovative backgrounds, sustainability-focused and forward-thinking minds, and data-driven lighting solutions to empower you and your business.

## SUPPORT & EXPERTISE

With our support and expertise, you'll feel enabled to make confident, future-proof decisions that set new benchmarks in the development of sustainable properties within the residential, commercial, industrial, and landscape sectors.

## GLOBAL PRESENCE

Our commitment is far-reaching. Our global presence is indeed strong, but with our newly formed capabilities and scalability, we have the stability and long-term market presence to grow yet further.

## SUSTAINABILITY

Our focus is on you, your future, the sustainability of your projects, and our commitment in delivering an impeccably designed solution for your LED lighting integration.

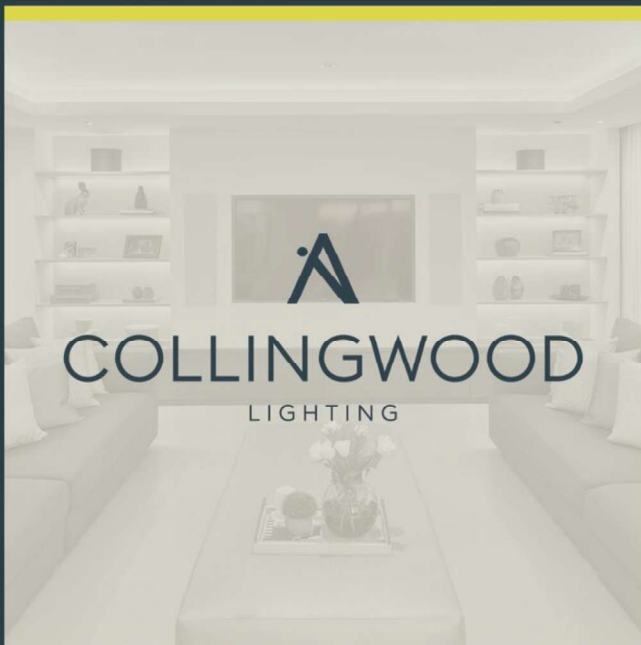




INOVARA GROUP

# STRENGTH IN NUMBERS

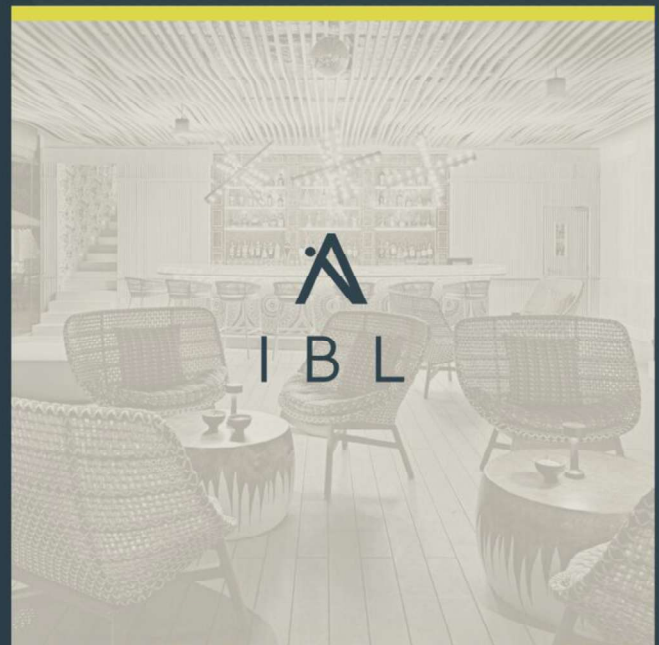
Sharing the intelligence, best practice and resources of Collingwood Lighting, IBL, Indigo Lighting and Nobile Italia, Inovara Group stands uniquely placed to help the whole supply chain, from contractors to clients, face the challenges of today and pursue the opportunities of tomorrow.



**Collingwood Lighting, a UK-based business, has been a pioneer in the lighting industry ever since it was established back in 1961.**

A commitment to innovation, quality and sustainability, particularly in LED technology, catapulted a modest start-up into a significant market presence.

Collingwood's adaptation to market demands; catering to cultural and environmental requirements, developing strategic partnerships with influential stakeholders, and its dedication to introduce new technologies, has been instrumental in its success.



**IBL is a UK based innovator in LED engine design and provider of architectural lighting into flagship projects worldwide.**

Established in 1986, IBL provides architectural lighting into a range of global projects across premium hospitality, retail, airports and residences.

It has operations in the UK and an assembly production facility in China, enabling it to source, assemble and distribute its products worldwide.

The company has built a strong reputation and is recognised for its high-performance products used in flagship projects including Marina Bay Sands in Singapore, The Peninsula in London, and the National Museum of Qatar .



**Indigo Lighting, originally founded in 1989 under the name Soliban, has grown to become a leader in lighting innovation. Established as a Belgian lighting manufacturer in 2002, the company quickly gained a reputation for technical expertise and forward-thinking design.**

Its pioneering Technolight system set the foundation for future success, leading to an expanded product range and strong customer relationships.

Today, Indigo Lighting continues to deliver cutting-edge solutions, combining technical excellence with a deep understanding of the evolving needs of the lighting market.



**Founded in 1966 and headquartered in Rome, Nobile Italia, leads in design and LED technology in the Italian lighting market.**

Italy is known for its exquisite design credentials and Nobile is no different. Nobile manufactures and distributes world-class LED luminaires, with a clear market focus set squarely on 'premium'.

This strategy doesn't rely on beauty alone, and is supported by excellent service levels, well established customer relationships, and strong R&D capabilities.

COLLINGWOOD

# FOUNDED IN 1901

Collingwood started designing innovative LED lighting products in 2002. We pride ourselves on creating beautifully designed products that are easy to install and highly energy efficient. Using top quality materials, our products come with long warranties and are backed up by our expert UK based customer service team. With direct to site next day delivery policy within the UK, we are always prepared to go the extra mile to ensure our customers receive excellent service and superior quality products.

This philosophy has led us to introduce many firsts to the LED lighting market.



**FIRST IN THE MARKET TO MANUFACTURE LUMEN AND CCT SWITCHABLE RESIDENTIAL DOWNLIGHTS**  
Two Lumen outputs and three CCTs, all within one single luminaire.



**FIRST TO DESIGN AND MANUFACTURE LED lighting products for the UK electrical wholesale market.**



**FIRST TO PRODUCE 100% WATERPROOF**  
Sealed for life, 100% waterproof, inground LED lighting products.



**FIRST OUTDOOR LED PRODUCTS**  
Produce sealed for life outdoor LED lighting products.



**FIRST FOR FIRE-RATED DOWNLIGHTS**  
First to produce a fit for purpose, high performance, fire-rated LED downlights.



**FIRST TO PRODUCE MAINS DIMMABLE**  
Mains dimmable LED downlights.



**FIRST TO COMPLY WITH BUILDING REGULATIONS**  
First to produce an LED downlight that complies with all building regulations.



**FIRST TO CREATE A 360° DOWNLIGHT**  
Produce fire, acoustic and moisture-rated 360° spherical style downlight.



**FIRST TO OFFER EXTENDED WARRANTY**  
First to offer a 7 year or 10 year extended warranty.  
We now offer a 3, 4, 5, 7 & 10 year warranty.



1901  
BY COLLINGWOOD  
LIGHTING  
3000K, >90CRI



COLLINGWOOD  
LIGHTING

SUSTAINABILITY

# LIGHT A BETTER FUTURE

## Sustainability is at the core of everything we do

Our commitment to tackle environmental challenges means we are pro-actively taking action to minimise the impact of our materials used and operations, to build towards carbon neutrality.



### GOLD MEDAL ECOVARDIS

Methodology built on international sustainability standards. EcoVadis is the world's largest and most trusted provider to rate our business and provide you with transparency about our environmental, social and ethical performance - or sustainability. We are pleased to share that our sustainability efforts this past year has increased our score earning an EcoVadis gold medal.



### RECYCLING

- 100% of cardboard waste is either used as shredded packaging filler or recycled.
- 100% of plastic waste is used in bales or recycled.
- 100% of our warehouse pallets are recycled.



### ENERGY FROM RENEWABLE SOURCES

100% of our electricity all comes from renewable energy sources such as solar and wind turbines.



### WASTE EXPERTS PARTNERSHIP

We partner with waste experts to enhance our overall environmental performance.

- 100% of waste is diverted from landfill.
- 96% of waste is recycled, with the remaining 4% being recovered as energy from waste.
- Consolidating waste pick ups to minimise our carbon footprint.
- Euro 6 standard for all waste pick up vehicles.

SUSTAINABILITY

# GREENER PACKAGING

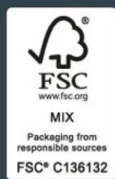
## Reduce, Re-Use & Recycle

As packaging is the most produced item to a business outside of the products themselves, we know how important it is to do everything we can to minimise the impact it has on the environment.



### 100% RECYCLABLE

- Our boxes are made entirely from card to make them easy to recycle.
- No plastics used to make our boxes (including the finish of the box).
- Vegetable oil inks are used to ensure they are recyclable.



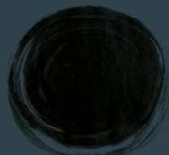
### FSC APPROVED CARD

The card used in our boxes comes from FSC approved forests. This means that the card used to make the box comes from a replenishable forest and for every tree used another one is planted.



### LESS WASTAGE

We make sure our boxes are designed to use as little material as possible to minimise their carbon footprint.



### LESS INK

Our new brown box design uses significantly less ink than a full colour box with images. When producing the packaging this makes the carbon footprint much smaller.



**COLLINGWO**  
LIGHTING

CUSTOMER FIRST

# FAST RELIABLE SERVICE

## We're here to help you succeed

We believe you have the ability to create amazing projects and we want to help you achieve it. We pride ourselves on always being readily available to provide a level of service that gets you what you need to excel and achieve unbelievable things.



**Place an order before 3pm**



**Free next day direct to site delivery**



### FREE ON SITE SUPPORT

On large scale projects a member of our technical support team will go to your site to help plan your installation to ensure you have a smooth installation.



### FREE ON THE PHONE SUPPORT

Readily available and with expert knowledge of our product portfolio our technical support team are on hand to answer any question you have about our products.



### ONLINE SUPPORT

To ensure you get the support you need 24 hours a day we offer online support.

- Detailed product information on our website.
- Email updates to keep you informed.
- Literature available on our website.
- Product configurators to help you make the right choice easily.

QUALITY

# NO SUBSTITUTE FOR QUALITY

## You can be confident with us

Since we were established in 1901 we have been driven to deliver nothing but the highest quality in everything we do. We offer longer warranties and get third party accreditation to ensure you can trust in our products as we do.

### LIA ACCREDITATION



The Lighting Industry Association Quality Assurance scheme is a quality assurance scheme developed by industry experts. The scheme assesses the members quality system and product compliance, and supports the member in achieving and maintaining the standard expected for LIA membership. Collingwood have been awarded the LIAQA Assured Company mark.

### EDA ACCREDITATION



The EDA (Electrical Distributors' Association) is the trade association that represents the interests of wholesale distributors of electro-technical products in the UK. Collingwood are a product affiliate and together we work for the good of the sector.

### LONG PRODUCT WARRANTIES



You can trust in our products as we do. We offer up to 10 year warranties on our products because we believe in our products. They all go through vigorous testing to ensure they are of the highest quality that will stand the test of time.



### TWO YEAR ON SITE WARRANTY

We offer a two year on site warranty for all commercial and industrial lighting products.

## GROUND LIGHTS



GL018 C  
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GL018 SQ  
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GL019 Round  
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GL019 Ultra Low Glare  
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GL100 (1 Window)  
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GL100 (2 Windows 1 Directions)  
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GL100 (2 Windows 2 Directions)  
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GL100 (3 Windows)  
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GL100 (4 Windows)  
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GL200 (1-2 Windows)  
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GL200 (3-4 Windows)  
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GL200 (1-2 Windows)  
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GL200 (3-4 Windows)  
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GL040 Round  
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GL038 Mains  
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Tilt Ground Light  
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## STEP LIGHTS



GL019 Eyelid  
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## SPIKE LIGHTS



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SL040A  
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SL220 Low Voltage  
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SL220 Mains  
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SL230 Single Head  
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SL230 Single Head Mains  
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SL230 Mains  
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## FEATURE LIGHTS



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## WALL LIGHT



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## RESIDENTIAL FLOODLIGHT



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FL02  
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FL03  
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FL10  
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## BOLLARD



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BL03  
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Slim CSP  
Bollard  
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Hydra  
Bollard  
Black  
reflector  
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Hydra  
Bollard  
Opal  
white  
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Hydra  
Bollard  
Silver  
reflector  
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## WALL WASH

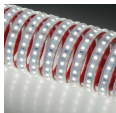


VOLTA  
500mm  
Page 118

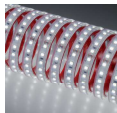


VOLTA  
1000mm  
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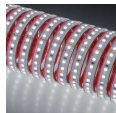
## STRIP LIGHTS



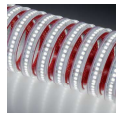
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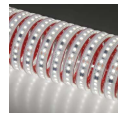
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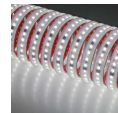
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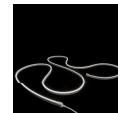
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FL01  
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FL03  
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FL04  
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80310  
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MC67  
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# ADDING DEPTH TO LANDSCAPES

## Landscape Lighting

### INCORPORATING LIGHTING INTO LANDSCAPE DESIGN

To amplify the quality of a landscape, lighting should be incorporated into the design. When it comes to landscape lighting, three key areas should be considered; functional areas, feature areas and entertainment areas. If consideration is taken for these, landscapes will have added depth and can really be brought to life.

#### Low-level decorative lighting

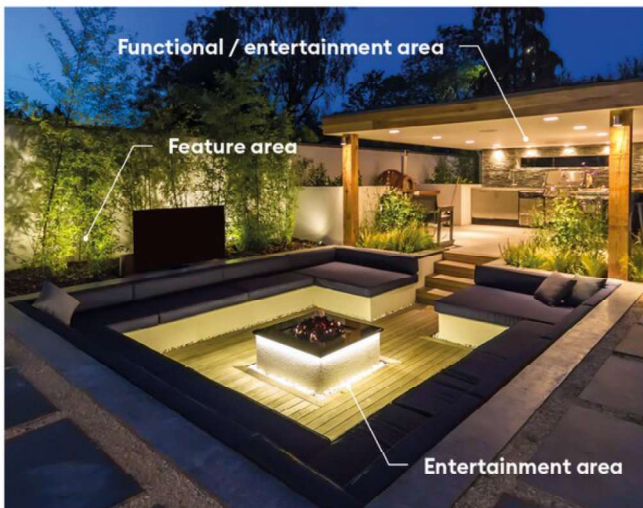
The correct lighting should be considered when illumination is required for a certain task, such as visibility or circulation. Pathways and storage areas usually require functional lighting but can be used as a layer of light that contributes to the overall landscape.

#### Feature areas

Sculptures, ponds and interesting plant life can form distinct features in a landscape design, but may be lost at night. Consider the most appropriate way to light them to ensure they become the focal point in a landscape.

#### Entertainment areas

Lighting in this area should be used to create ambience as it often becomes the most used area in a landscape. As such, it is a good idea to consider lighting at the start of the design. This can be further enhanced through the use of controls.



### MAXIMISING MATERIALS

#### Importance of colour temperature

Accentuating the materials in a landscape can be achieved by selecting a colour temperature that enhances the colour of the material being highlighted.

#### Wood / sand

Warmer tones found in materials such as these would be complimented by a colour temperature of 2200K - 3000K.

#### Stone

For featuring the natural components of stone, a colour temperature of 2700K - 3000K will be most suitable.

#### Whites

For white materials, such as painted brick or furniture, choose 4000K to emphasise the tones.



## FINISHES

The use of black, antique brass and bronze finishes are a popular trend with landscape lighting designers, and to accommodate this development we have just extended our offering to include even more varieties.

Black ground lights tap into the latest monochrome interior design trends. These ground lights are for decorative lit effects and ideal for placement on perimeters because they're not suitable for being walked or driven over.

Another design trend is for the use of warmer materials and body colours, such as antique brass and bronze. These finishes are particularly used in exterior spaces, alongside red, orange and brown hues, which are commonly found in wood, brick and stone.

## SWITCHABLE DRIVERS

Drivers designed for the ultimate flexibility. Turn any landscape product into a lumen switchable product via on-board dip switches, giving you the freedom during installation to achieve the perfect output for your garden design.

**Non dimmable output:**  
150mA - 250mA - 350mA  
500mA - 700mA

**DRV150700**



**Triac dimmable output:**  
350mA - 500mA - 700mA

**DRV350700TD**



## ATMOSPHERE

The correct colour temperature is paramount for the choice of material you wish to highlight and the atmosphere you wish to create. Landscape designs are easily transformed by the correct colour temperature.

**2200K**



**2700K**



**3000K**



**4000K**



## FLOOD VS SPOT

Choose the ideal beam angle to achieve the effect that you need.

**Flood**

Wash light over an area with a wider beam angle.



**Spot**

Concentrated beam of light with a narrower beam angle.



### Textured surfaces vs. flat surfaces

When choosing a light fitting, it is imperative to consider the surface that the light will be used on. At this stage, it is a great opportunity to bring the materials to life and compliment the landscape design.

#### Textured surface

Use a spot, close to the surface, to graze light over the surface, highlighting the texture and adding depth to the surface.



#### Flat surfaces

Use a flood to wash light over the surface, highlighting the clean nature of the surface/design.



# ENVIRONMENTAL CONSIDERATIONS

## Landscape Lighting

### INCORPORATING LIGHTING INTO LANDSCAPE DESIGN

#### Considerate lighting schemes reduce impacts on nocturnal animals

It is important to minimise any effects lighting has on nocturnal animals and insects such as bats, owls and moths. It is very important that bats specifically are taken into account when considering the need to light an area if they are known or suspected to use the area.

The amount of upwards light, and in particular blue light content, can impact them for many reasons, like survival and growth rates. Bats in the UK feed on insects and this missed opportunity can have a serious impact on them if they are missing the peak time of insect abundance (just after dusk). Other effects it can have is bats/wildlife being abandoned or becoming entombed in the roost, so when the entrance is lit up to the roost, they will be less inclined to leave their roosts in these conditions.

A range of low glare products as such as bollards, ground lights, spike lights and lighting controls to help support with illuminating areas.

Products available in 2200K keep blue light content to a minimum. Bollards, such as the black coated range are available in various sizes and with the low glare it has minimum up spill of lighting, making it suitable for areas where nocturnal animals such as bats, and any other wildlife that are affected by lighting.

The mini domed ground lights, GL100 and GL200 give out concentrated light sideways, so you can still illuminate a path for easy navigation and safety, whilst still protecting the environment from light pollution.

Control systems can offer various functions such as putting the lights on a timer or a sensor, so it is only used when needed.



### PATENTED UNDERWATER TECHNOLOGY

IP68 rated lights are completely air tight and can be used underwater. Patented technology, unique to Collingwood, prevents water ingress from the back of the light, where the cable enters the product.

When designing a pond area, ensure that you are using IP68 rated products.

Our IP68 rated ground lights can withstand 1 bar pressure, meaning it can be installed up to a depth of 10 metres.



## COASTAL AND POOL AREAS

### Material choice

Our landscape products are trusted by lighting specifiers and installers alike. This is thanks to superior product engineering and the use of durable and high-quality materials, including marine-grade stainless steel 316 and anodised aluminium.

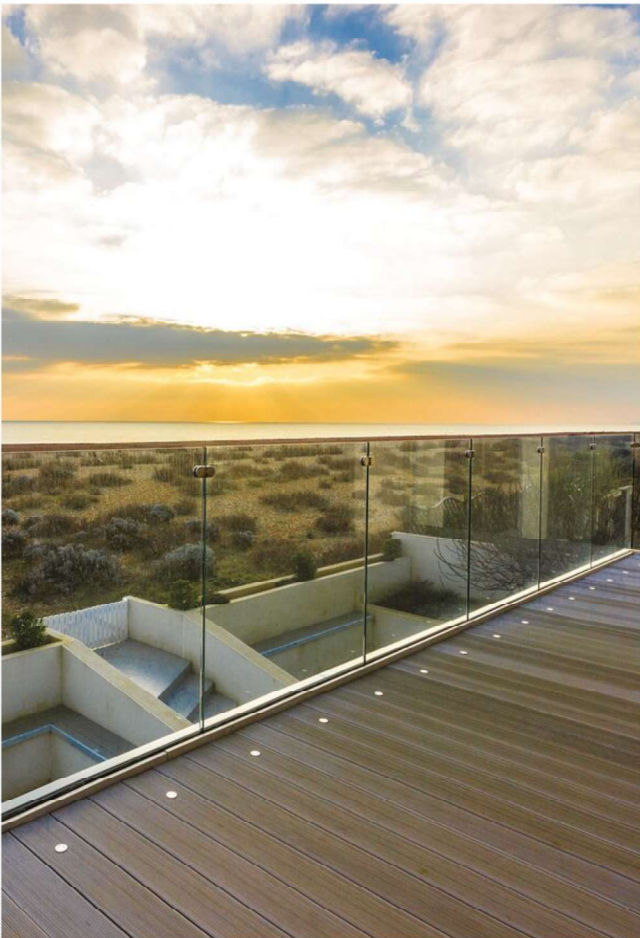
### Stainless steel 316

Unlike stainless steel 304, the 316 version has a higher resistance to corrosion meaning it is an excellent choice for coastal areas where the water and air contain high concentration levels of salt, and for around swimming pools where there is exposure to chlorine. Not only this, but the material is very durable against wear and tear, particularly important for products recessed in walkways and driveways. Our products go through vigorous salt mist testing to ensure they are corrosion resistant.

### Anodised Aluminium

This electrochemical process increases the thickness of the natural oxide layer on the surface of the aluminium, so the colour becomes part of the material itself. This has benefits over the more commonly seen powder coated alternative because it will not fade, peel or flake, and maintains some of its metallic appearance. Anodised aluminium is also resistant to corrosion and scratches, but it is a softer metal compared to stainless steel 316 so should be considered based on the light fitting's intended install location. Anodising is one of the most durable surface finishes available, as well as beautiful.

As with all light fittings, both the light and the product will maintain a high-quality appearance if they are installed correctly and are regularly wiped clean with a soft, damp cloth.



# MADE TO ORDER

## Landscape Lighting

### CONFIGURATE THE PERFECT LANDSCAPE LIGHTING FOR YOUR PROJECT

Our landscape range is constructed bespoke to your orders specifications. Simply choose from the options below to configure your landscape products.

#### FINISH / MATERIAL

Antique Brass



Black



Bronze



Stainless Steel 316



#### SHAPE (GROUND LIGHTS ONLY)

Round



Square



#### BEAM ANGLE

Spot



Flood



Product	Finish / Material				Shape (Ground Lights Only)		Beam Angle	
	Antique Brass	Black	Bronze	Stainless Steel 316	Round	Square	Spot	Flood
GL016	●	●	●	●	●	●	●	●
GL019	●	●	●	●	●	●	●	●
GL034	●	●	●	●	●	X	X	X
GL038	●	●	●	●	●	X	●	●
GL040	●	●	●	●	●	●	●	●
GL100	●	●	●	●	●	X	X	X
SL220	●	●	●	●	X	X	●	●
UL010	●	●	●	●	X	X	●	●
UL030	●	●	●	●	X	X	●	●
WL220	●	●	●	●	X	X	●	●

## LIT EFFECT

Clear Glass



Frosted Glass



Honeycomb Low-Glare



Half Moon Glass



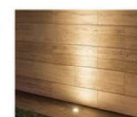
## COLOUR TEMPERATURE (CCT)

2200K

2700K

3000K

4000K



Lit Effect				Colour Temperature (CCT)				Low Voltage Option	Comes with Tube (Ground Lights Only)
Clear Glass	Frosted Glass	Honeycomb Low-Glare	Half Moon Glass	2200K	2700K	3000K	4000K		
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	✗	✗	✗	●	●	●	●	●	●
●	✗	✗	✗	●	●	●	●	●	●
●	●	●	●	●	●	●	●	✗	●
✗	✗	✗	✗	●	●	●	●	✗	●
✗	✗	✗	✗	●	●	●	●	●	✗
✗	✗	✗	✗	●	●	●	●	●	✗
✗	✗	✗	✗	●	●	●	●	●	✗
✗	✗	✗	✗	●	●	●	●	✗	✗

# GROUND LIGHTS



# GROUND LIGHTS

## Highlighting Features Inside And Out

### WHAT TYPE OF GROUND LIGHT?

We offer the ideal ground light for every installation

- 1 High power**  
Powerful in output and large in scale, these fittings are ideal for illuminating tall trees and the façades of taller buildings.
- 2 Mid power**  
Choose these to light smaller façades, trees, shrubs and garden walls. These fittings can also be used inside large scale buildings to highlight architectural features.
- 3 Low power**  
Ideal for uplighting domestic façades and for use on wide steps and terraces with low level planting, these fittings can also be used inside to highlight architectural features. They can also be recessed into ceilings to provide small downlight options in display cases, alcoves or in showers.
- 4 Low glare**  
These fittings are ideal for use indoors or near terraces, seating areas and along pathways where people pass nearby.
- 5 Marker light**  
Providing a subtle, diffused glow of light, these fittings are ideal for steps, pathways, driveways and car parks.
- 6 Underwater lighting**  
IP68 and tested to 9m submersion.

### PATENTED UNDERWATER TECHNOLOGY

IP68 rated ground lights are completely air tight and can be used under water.

Our low voltage ground lights utilise patented technology, unique to Collingwood, the anti syphon bung prevents water ingress when submerged, from where the cable enters the product.



### CHOOSE THE IDEAL SIZE AND OUTPUT

50lux @ m (3000K)

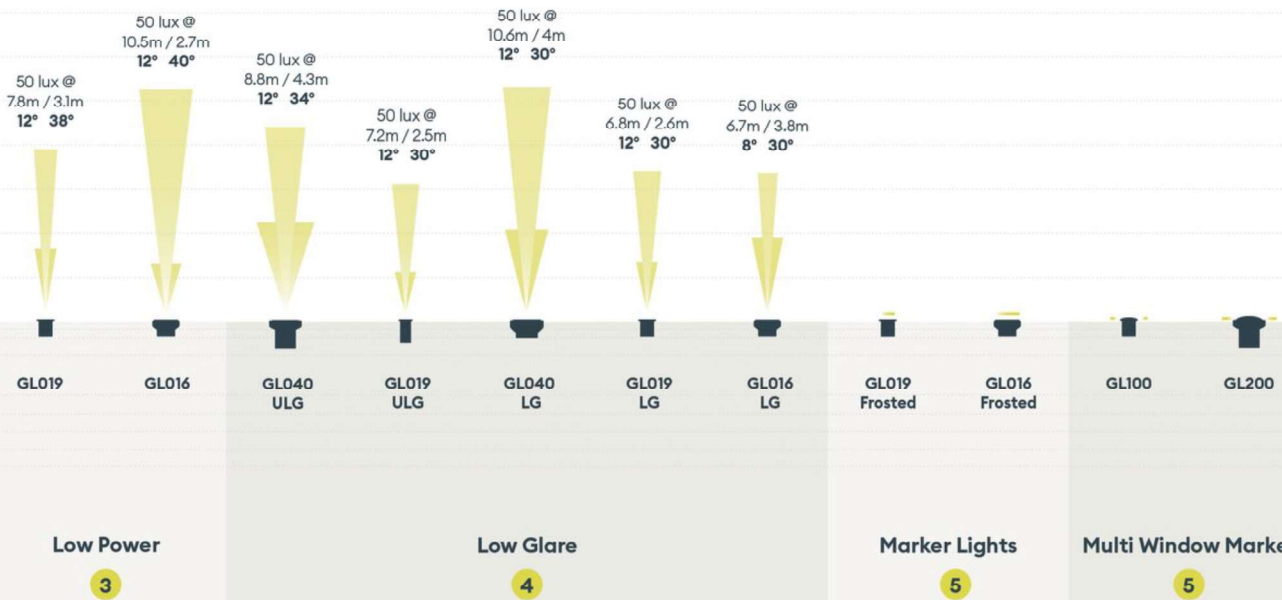


## MADE TO ORDER

		GL016	GL019	GL038	GL040	GL100
Finish / Material	Antique Brass	●	●	●	●	●
	Black	●	●	●	●	●
	Bronze	●	●	●	●	●
	Stainless Steel	●	●	●	●	●
Shape	Round	●	●	●	●	●
	Square	●	●	X	●	X
Beam Angle	Spot	●	●	●	●	X
	Flood	●	●	●	●	X
Lit Effect	Clear Glass	●	●	●	●	X
	Frosted Glass	●	●	●	●	X
	Honeycomb Low-Glare	●	●	●	●	X
	Half Moon Glass	●	●	●	●	X
CCT	2200K	●	●	●	●	●
	2700K	●	●	●	●	●
	3000K	●	●	●	●	●
	4000K	●	●	●	●	●
Low Voltage Option		X	X	●	X	X
Comes with Rube		●	●	●	●	●

## FITTING GUIDE


Product Code	Cut-out	Depth	Depth with tube
GLTMS119	119mm	129mm	136mm
GLTMFI47 GLTMS147	147mm	156mm	168mm
GLTMFI65 GLTMS165	165mm	250mm	278mm
GLTMS193	193mm	175mm	195mm
GLTMS223	223mm	183mm	212mm
GL016 Range	50mm	60mm	102mm
GL019 Range	33mm	60mm	102mm
GL019 ULG	33mm	90mm	132mm
GL040	65mm	60mm	102mm
GL040 ULG	65mm	110mm	132mm
GL100	33mm	60mm	109mm
GL200	65mm	80mm	150mm



## GROUND LIGHTS

**0.5W** 0.5W at 24V DC

 Frosted effect for low glare and soft lighting

 Low voltage ground light

### GUARANTEE

7 years

### BENEFITS

- Robust cable for outdoor use
- Shallow depth for easy installation
- Coastal protected
- Easy and quick installation with parallel wiring



## GL018 C

mini round marker ground light

### FEATURES

<b>Impact Strength</b>	IK07
<b>IP Rating</b>	IP68
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	Fixed
<b>Drive Over Walk Over</b>	Walk over
<b>Dimmable</b>	None
<b>Input</b>	24V DC
<b>LED Life</b>	L70 30,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	28mm
<b>Construction Material</b>	Stainless Steel 316, Brass
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	35°C
<b>Mounting Options</b>	Floor
<b>Electric Class</b>	III
<b>Constant Voltage</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W
GL018 C 27	Stainless Steel	0.4W	2700K	120	4	10
GL018 C NW	Stainless Steel	0.4W	4000K	120	4	10
GL018 C WARM WHITE	Stainless Steel	0.4W	3000K	120	4	10

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 6mm)

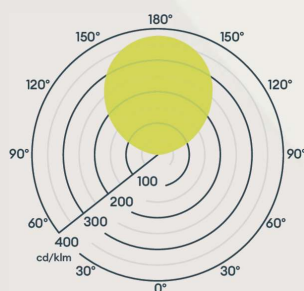
### COMPATIBLE DRIVERS

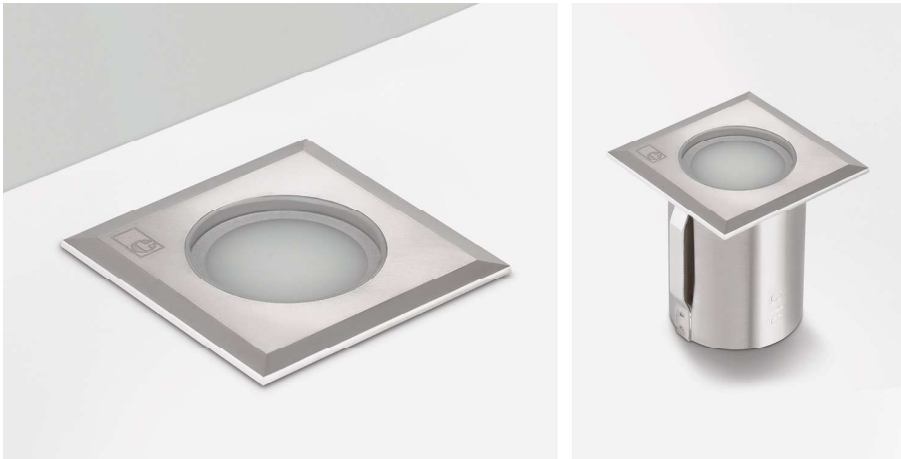
See Pages 140-141 for complete LED Driver offering

### ACCESSORIES

<b>JB1</b>	Waterproof junction box	<b>150</b>
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>PDCINT1-10V</b>	DALI-2, PUSH DIM, 0-10V and 1-10V dimming interface for 24V Drivers	

BEAM (°): 120





## GL018 SQ

square mini marker ground light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK07	<b>Cut Out Size</b>	28mm
<b>IP Rating</b>	IP68	<b>Construction Material</b>	Stainless Steel 316
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	Fixed	<b>Ambient Temperature</b>	35°C
<b>Drive Over Walk Over</b>	Walk over	<b>Mounting Options</b>	Floor
<b>Dimmable</b>	None	<b>Electric Class</b>	III
<b>Input</b>	24V DC	<b>Constant Voltage</b>	Yes
<b>LED Life</b>	L70 30,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	Im	Lm/W
GL018 SQ WARM WHITE	Stainless Steel	0.5W	3000K	120	3	6

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB1</b>	Waterproof junction box	<b>150</b>
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>PDCINT1-10V</b>	DALI-2, PUSH DIM, 0-10V and 1-10V dimming interface for 24V Drivers	

**0.5W**

0.5W at 24V DC



Frosted effect for low glare and soft lighting



Low voltage ground light

### GUARANTEE

3 years (extended)

### BENEFITS

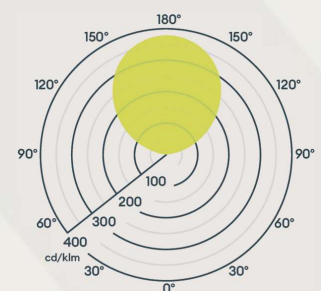
Square bezel for a different decorative effect

Robust cable for outdoor use

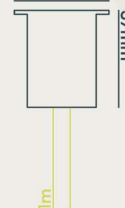
Shallow depth for easy installation

Easy and quick installation with parallel wiring

BEAM (°): 120



36x36mm



## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK06** IK06 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

Low voltage ground light

SDCM3 ensuring uniform light appearance and consistency

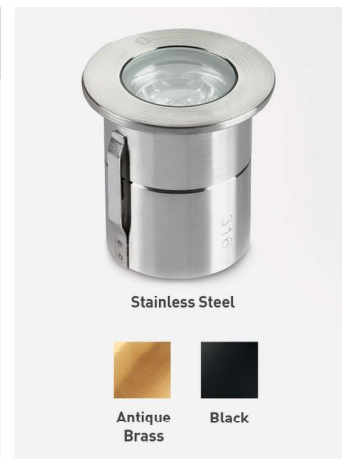
CRI 80 providing true colour appearance

Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat

Compact yet powerful fitting

Robust cable for outdoor use

Available in an array of colours



## GL019 ROUND

Low Voltage Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK06	<b>Cut Out Size</b>	33mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>Electric Class</b>	III
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Constant Current</b>	Yes
<b>LED Life</b>	L70 70,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

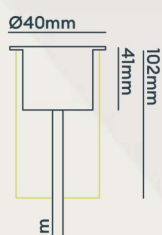
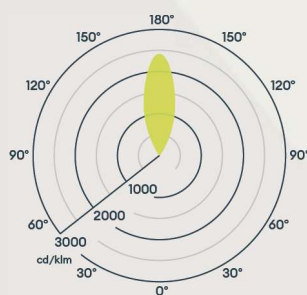
PHOTOMETRICS @ 25°C		150MA		700MA					
Product Code	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy
GL019RSS22F	2200K	38	0.4W (150mA)	51	120	2.2W (700mA)	196	89	A B D
GL019RSS22S	2200K	12	0.4W (150mA)	51	120	2.2W (700mA)	196	89	A B D
GL019RSS27F	2700K	38	0.4W (150mA)	51	120	2.2W (700mA)	169	89	A B D
GL019RSS27S	2700K	12	0.4W (150mA)	51	120	2.2W (700mA)	169	89	A B D
GL019RSS30F	3000K	38	0.4W (150mA)	54	129	2.2W (700mA)	210	95	A B D
GL019RSS30S	3000K	12	0.4W (150mA)	54	129	2.2W (700mA)	210	95	A B D
GL019RSS40F	4000K	38	0.4W (150mA)	60	143	2.2W (700mA)	234	106	A B D
GL019RSS40S	4000K	12	0.4W (150mA)	60	143	2.2W (700mA)	234	106	A B D

In the part code to replace your colour, change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Made to order variants available in Square, Frosted, Half-Moon and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

COMPATIBLE DRIVERS	
See Pages 140-141 for complete LED driver offer	

BEAM (°): 12, 38





## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK06** IK06 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

Low voltage ground light

SDCM3 ensuring uniform light appearance and consistency

CRI 80 providing true colour appearance

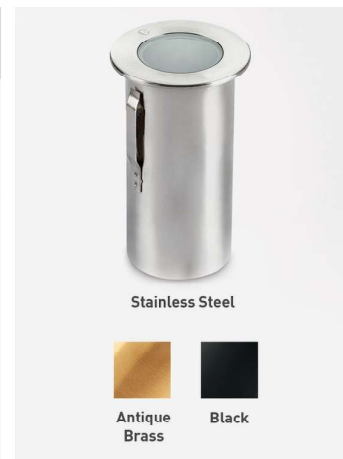
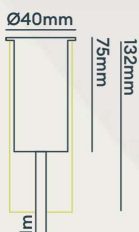
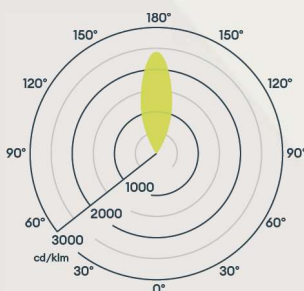
Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat

Compact yet powerful fitting

Robust cable for outdoor use

Available in an array of colours

BEAM (°): **12, 38**



## GL019 ULTRA LOW GLARE

Low Voltage Ground Light

### FEATURES

<b>Impact Strength</b>	IK06
<b>IP Rating</b>	IP68
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	Fixed
<b>Drive Over Walk Over</b>	Walk over
<b>Input</b>	150mA / 250mA / 350mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CR>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	33mm
<b>Inrush Current</b>	N/A
<b>Construction Material</b>	Stainless Steel 316
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	55°C
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Colour	Beam (°)	150MA			350MA			Energy
			W	lm	Lm/W	W	lm	Lm/W	
GL019USS22F	2200K	38	0.4W (150mA)	36	85	1W (350mA)	77	77	A D
GL019USS22S	2200K	12	0.4W (150mA)	41	98	1W (350mA)	89	89	A D
GL019USS27F	2700K	38	0.4W (150mA)	36	85	1W (350mA)	77	77	A D
GL019USS27S	2700K	12	0.4W (150mA)	41	98	1W (350mA)	89	89	A D
GL019USS30F	3000K	38	0.4W (150mA)	38	90	1W (350mA)	82	82	A D
GL019USS30S	3000K	12	0.4W (150mA)	44	105	1W (350mA)	95	95	A D
GL019USS40F	4000K	38	0.4W (150mA)	42	101	1W (350mA)	91	91	A D
GL019USS40S	4000K	12	0.4W (150mA)	49	117	1W (350mA)	106	106	A D

In the part code to replace your colour, change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Made to order variants available in Square, Frosted, Half-Moon and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer



## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

Low voltage ground light

Walk over ground light ideal for paths or steps

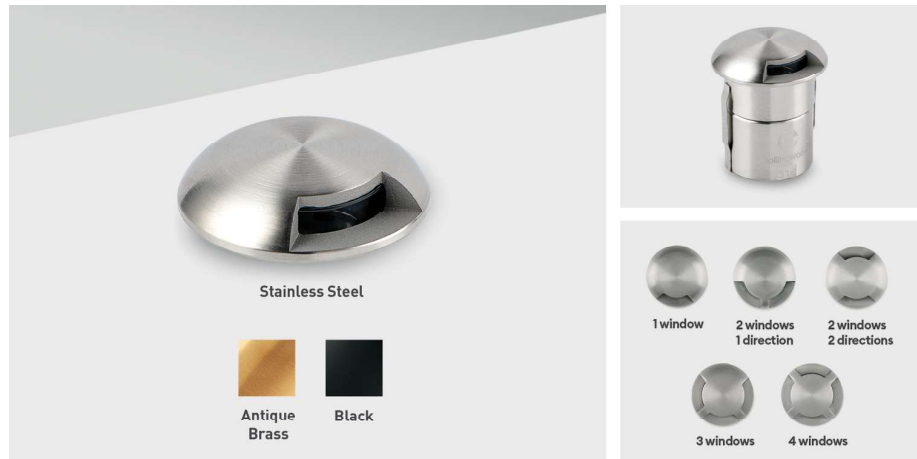
SDCM3 ensuring uniform light appearance and consistency

CRI 80 providing true colour appearance

Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat

Long-lifetime of 70,000hrs





Available in an array of colours



## GL100 (1 WINDOW)

Domed Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK08	<b>Cut Out Size</b>	33mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>Mounting Options</b>	Floor
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 70,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C				150MA				700MA			
Product Code	Type	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy	
GL100SSIW22	1 Window	2200K	75	0.4W (150mA)	1	3	2.2W (700mA)	5	2		
GL100SSIW27	1 Window	2700K	75	0.4W (150mA)	1	3	2.2W (700mA)	5	2		
GL100SSIW30	1 Window	3000K	75	0.4W (150mA)	1	3	2.2W (700mA)	6	3		
GL100SSIW40	1 Window	4000K	75	0.4W (150mA)	2	4	2.2W (700mA)	6	3		

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Energy rating is a reflection of the LED light source.

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

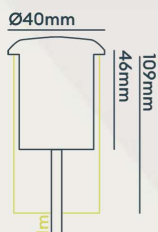
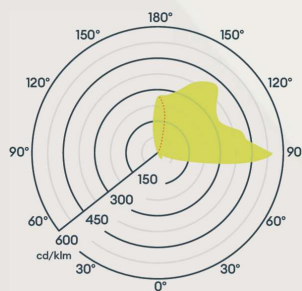
### COMPATIBLE DRIVERS

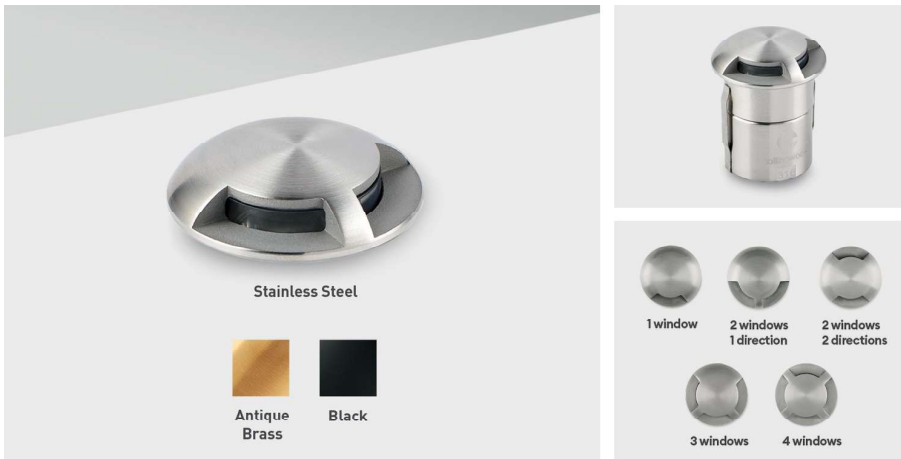
See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>

BEAM (°): 75





**IP68** IP68 perfect for internal or external applications

Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

**GUARANTEE**  
7 years

**BENEFITS**

- Supplied complete with installation tube
- Low voltage ground light
- Walk over ground light ideal for paths or steps
- SDCM3 ensuring uniform light appearance and consistency
- CRI 80 providing true colour appearance
- Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat
- Long-lifetime of 70,000hrs
- Available in an array of colours

# GL100 (2 WINDOWS 1 DIRECTIONS)

Domed Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK08	<b>Cut Out Size</b>	33mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>Mounting Options</b>	Floor
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 70,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CR>80		
<b>SDCM</b>	SDCM3		

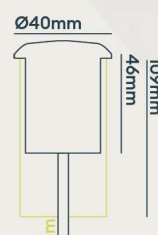
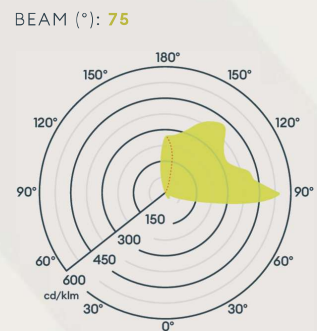
PHOTOMETRICS @ 25°C				150MA		700MA				
Product Code	Type	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy
GL100SS2W22	2 Windows 1 Direction	2200K	75	0.4W (150mA)	3	6	2.2W (700mA)	10	5	
GL100SS2W27	2 Windows 1 Direction	2700K	75	0.4W (150mA)	3	6	2.2W (700mA)	10	5	
GL100SS2W30	2 Windows 1 Direction	3000K	75	0.4W (150mA)	3	7	2.2W (700mA)	11	5	
GL100SS2W40	2 Windows 1 Direction	4000K	75	0.4W (150mA)	3	8	2.2W (700mA)	12	6	

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

**COMPATIBLE DRIVERS**  
See Pages 140-141 for complete LED driver offer

ACCESSORIES		
<b>JB2</b>	Waterproof junction box	150
<b>JB4</b>	Gel filled waterproof junction box	150
<b>JB6</b>	Inline IP68 gel filled cable connector	150
<b>WCR 275 BLACK</b>	2-core rubber cable	151



## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

Low voltage ground light

Walk over ground light ideal for paths or steps

SDCM3 ensuring uniform light appearance and consistency

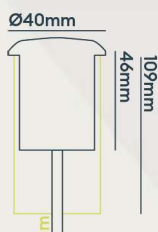
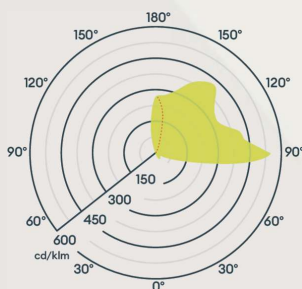
CRI 80 providing true colour appearance

Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat

Long-lifetime of 70,000hrs

Available in an array of colours





BEAM (°): 75



## GL100 (2 WINDOWS 2 DIRECTIONS)

Domed Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK08	<b>Cut Out Size</b>	33mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>Mounting Options</b>	Floor
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 70,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C				150MA			700MA			
Product Code	Type	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy
GL100SS2O22	2 Windows 2 Directions	2200K	75	0.4W (150mA)	3	6	2.2W (700mA)	10	5	
GL100SS2O27	2 Windows 2 Directions	2700K	75	0.4W (150mA)	3	6	2.2W (700mA)	10	5	
GL100SS2O30	2 Windows 2 Directions	3000K	75	0.4W (150mA)	3	7	2.2W (700mA)	11	5	
GL100SS2O40	2 Windows 2 Directions	4000K	75	0.4W (150mA)	3	8	2.2W (700mA)	12	6	

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Energy rating is a reflection of the LED light source.

### WIRING INFORMATION

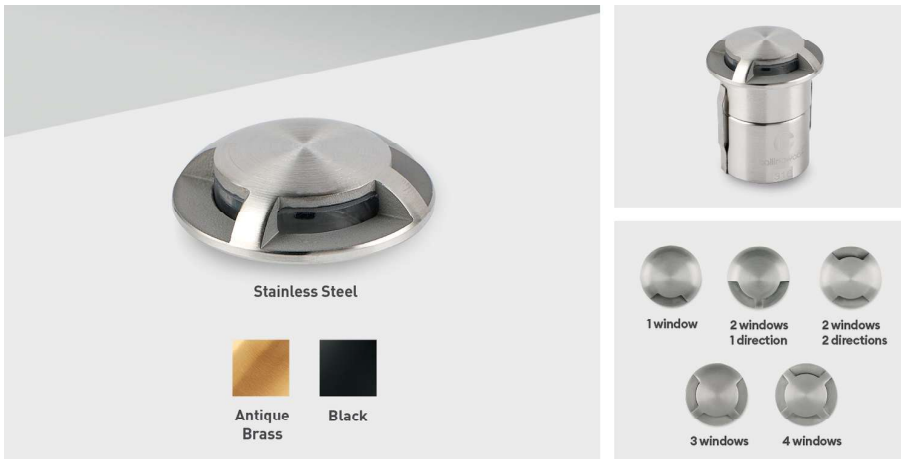
**Type Of Wiring Required** Series  
**Power Cable** H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>



**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

**GUARANTEE**  
7 years





**BENEFITS**

- Supplied complete with installation tube
- Low voltage ground light
- Walk over ground light ideal for paths or steps
- SDCM3 ensuring uniform light appearance and consistency
- CRI 80 providing true colour appearance
- Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat
- Long-lifetime of 70,000hrs
- Available in an array of colours

## GL100 (3 WINDOWS)

Domed Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK08	<b>Cut Out Size</b>	33mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>Mounting Options</b>	Floor
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 70,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CR>80		
<b>SDCM</b>	SDCM3		

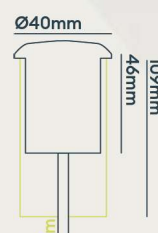
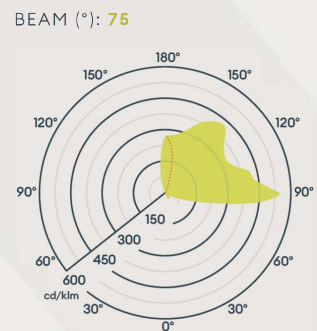
PHOTOMETRICS @ 25°C		150MA				700MA				
Product Code	Type	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy
GL100SS3W22	3 Windows	2200K	75	0.4W (150mA)	4	10	2.2W (700mA)	16	7	
GL100SS3W27	3 Windows	2700K	75	0.4W (150mA)	4	10	2.2W (700mA)	16	7	
GL100SS3W30	3 Windows	3000K	75	0.4W (150mA)	4	10	2.2W (700mA)	17	8	
GL100SS3W40	3 Windows	4000K	75	0.4W (150mA)	5	11	2.2W (700mA)	19	8	

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

**COMPATIBLE DRIVERS**  
See Pages 140-141 for complete LED driver offer

ACCESSORIES		
<b>JB2</b>	Waterproof junction box	150
<b>JB4</b>	Gel filled waterproof junction box	150
<b>JB6</b>	Inline IP68 gel filled cable connector	150
<b>WCR 275 BLACK</b>	2-core rubber cable	151



## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

Low voltage ground light

Walk over ground light ideal for paths or steps

SDCM3 ensuring uniform light appearance and consistency

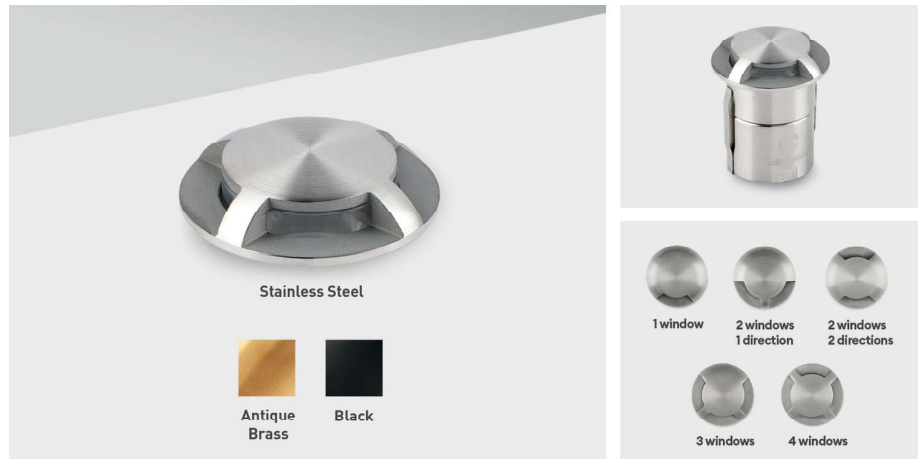
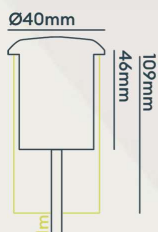
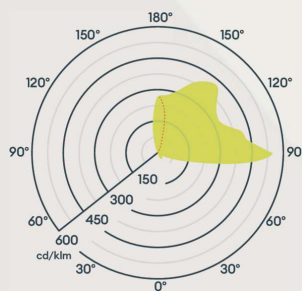
CRI 80 providing true colour appearance

Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat

Long-lifetime of 70,000hrs

Available in an array of colours





BEAM (°): 75



## GL100 (4 WINDOWS)

Domed Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK08	<b>Cut Out Size</b>	33mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>Mounting Options</b>	Floor
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 70,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C				150MA		700MA				
Product Code	Type	Colour	Beam (°)	W	Im	Lm/W	W	Im	Lm/W	Energy
GL100SS4W22	4 Windows	2200K	75	0.4W (150mA)	5	11	2.2W (700mA)	18	8	
GL100SS4W27	4 Windows	2700K	75	0.4W (150mA)	5	11	2.2W (700mA)	18	8	
GL100SS4W30	4 Windows	3000K	75	0.4W (150mA)	5	12	2.2W (700mA)	20	9	
GL100SS4W40	4 Windows	4000K	75	0.4W (150mA)	6	13	2.2W (700mA)	22	10	

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Energy rating is a reflection of the LED light source.

### WIRING INFORMATION

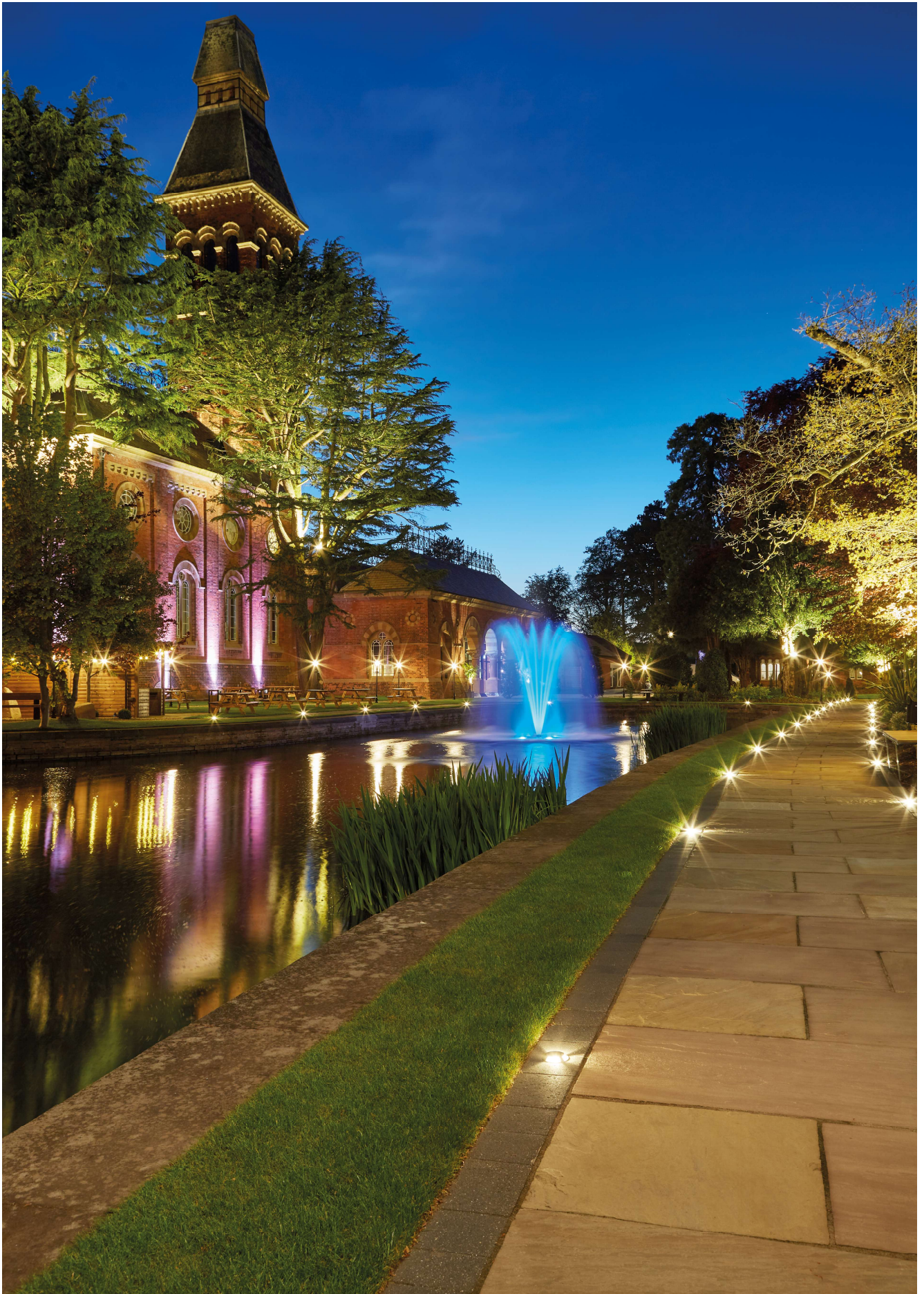
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>



## GROUND LIGHTS

**5.7W** 5.7W

 Coastal protected

 Straight to mains ground light

### GUARANTEE

7 years

### BENEFITS

Marine grade stainless steel 316 or antique brass

5 window styles and colour temperatures to suit any installation



## GL200 (1-2 WINDOWS)

5.7W, 40lm, domed ground light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK10	<b>Cut Out Size</b>	70mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	31A 0.12ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	35°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Mounting Options</b>	Semi-Recessed
<b>LED Life</b>	L70 70,000h	<b>Electric Class</b>	I
<b>CRI</b>	CRI>80	<b>Earth Leakage</b>	0.1mA
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
GL200DX1X27	1 Window	5.7W	2700K	90	10	2	
GL200DX1X30	1 Window	5.7W	3000K	90	10	2	
GL200DX1X40	1 Window	5.7W	4000K	90	10	2	
GL200DX2I27	2 Windows 1 Direction	5.7W	2700K	90	20	4	
GL200DX2I30	2 Windows 1 Direction	5.7W	3000K	90	20	4	
GL200DX2I40	2 Windows 1 Direction	5.7W	4000K	90	20	4	
GL200DX2D27	2 Windows 2 Directions	5.7W	2700K	90	20	4	
GL200DX2D30	2 Windows 2 Directions	5.7W	3000K	90	20	4	
GL200DX2D40	2 Windows 2 Directions	5.7W	4000K	90	20	4	

Energy rating is a reflection of the LED light source.

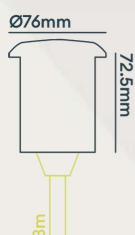
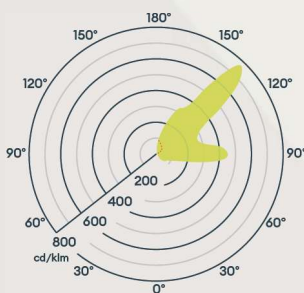
### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

### ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>TUBE/68</b>	Installation tubes	<b>44</b>

BEAM (°): 90




**5.7W** 5.7W


Coastal protected



Straight to mains ground light

**GUARANTEE**

7 years

**BENEFITS**

Marine grade stainless steel 316 or antique brass

5 window styles and colour temperatures to suit any installation

## GL200 (3-4 WINDOWS)

5.7W, 40lm, domed ground light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK10	<b>Cut Out Size</b>	70mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	31A 0.12ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	35°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Mounting Options</b>	Semi-Recessed
<b>LED Life</b>	L70 70,000h	<b>Electric Class</b>	I
<b>CRI</b>	CR1>80	<b>Earth Leakage</b>	0.1mA
<b>SDCM</b>	SDCM3		

## PHOTOMETRICS @ 25°C

Product Code	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
GL200DX3X27	3 Windows	5.7W	2700K	90	30	5	
GL200DX3X30	3 Windows	5.7W	3000K	90	30	5	
GL200DX3X40	3 Windows	5.7W	4000K	90	30	5	
GL200DX4X27	4 Windows	5.7W	2700K	90	40	7	
GL200DX4X30	4 Windows	5.7W	3000K	90	40	7	
GL200DX4X40	4 Windows	5.7W	4000K	90	40	7	

Energy rating is a reflection of the LED light source.

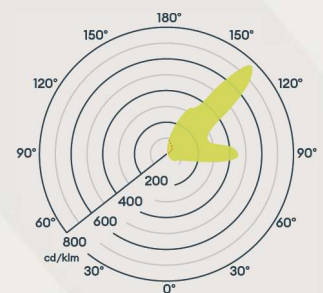
## WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

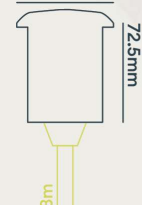
## ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>TUBE/68</b>	Installation tubes	<b>44</b>

BEAM (°): 90



Ø76mm



## GROUND LIGHTS

**5.7W** 5.7W

 Coastal protected

 Straight to mains ground light

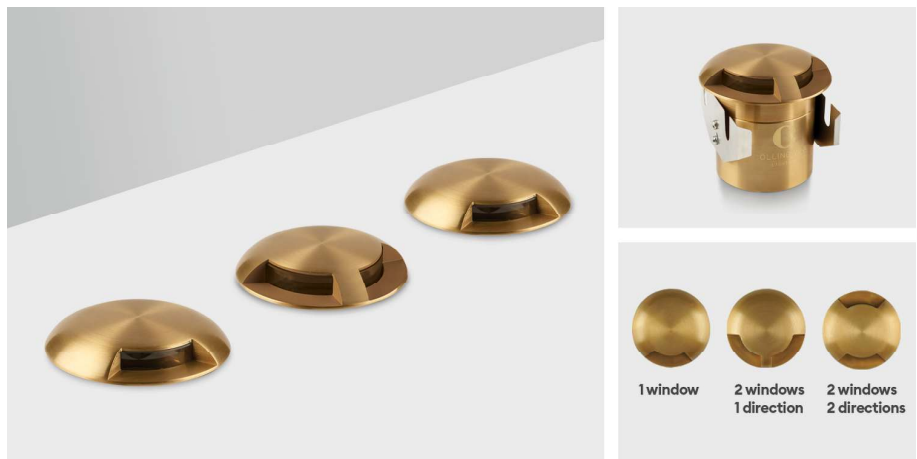
### GUARANTEE

7 years

### BENEFITS

Marine grade stainless steel 316 or antique brass

5 window styles and colour temperatures to suit any installation



## GL200 (1-2 WINDOWS)

5.7W, 40lm, domed ground light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK10	<b>Cut Out Size</b>	70mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	31A 0.12ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Brass
<b>Drive Over Walk Over</b>	Walk over	<b>Suitable For Coastal Areas</b>	Yes
<b>Input</b>	220-240V AC	<b>Ambient Temperature</b>	35°C
<b>LED Life</b>	L70 70,000h	<b>SELV</b>	Yes
<b>CRI</b>	CRI>80	<b>Electric Class</b>	I
		<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
GL200AXIX27	1 Window	5.7W	2700K	90	10	2	
GL200AXIX30	1 Window	5.7W	3000K	90	10	2	
GL200AX2I27	2 Windows 1 Direction	5.7W	2700K	90	20	4	
GL200AX2I30	2 Windows 1 Direction	5.7W	3000K	90	20	4	
GL200AX2227	2 Windows 2 Directions	5.7W	2700K	90	20	4	
GL200AX2230	2 Windows 2 Direction	5.7W	3000K	90	20	4	

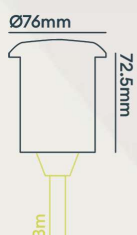
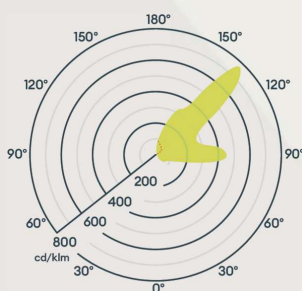
### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

### ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>TUBE/68</b>	Installation tubes	<b>44</b>

BEAM (°): 90





**5.7W** 5.7W



Coastal protected



Straight to mains  
ground light

#### GUARANTEE

7 years

#### BENEFITS

Marine grade stainless steel 316 or  
antique brass

5 window styles and colour  
temperatures to suit any  
installation

## GL200 (3-4 WINDOWS)

5.7W, 40lm, domed ground light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK10	<b>Cut Out Size</b>	70mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	31A 0.12ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Brass
<b>Drive Over Walk Over</b>	Walk over	<b>Suitable For Coastal Areas</b>	Yes
<b>Input</b>	220-240V AC	<b>Ambient Temperature</b>	35°C
<b>LED Life</b>	L70 70,000h	<b>SELV</b>	Yes
<b>CRI</b>	CR>80	<b>Electric Class</b>	I
		<b>Earth Leakage</b>	0.1mA

#### PHOTOMETRICS @ 25°C

Product Code	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
GL200AX3X27	3 Windows	5.7W	2700K	90	30	5	
GL200AX3X30	3 Windows	5.7W	3000K	90	30	5	
GL200AX4X27	4 Windows	5.7W	2700K	90	40	7	
GL200AX4X30	4 Windows	5.7W	3000K	90	40	7	

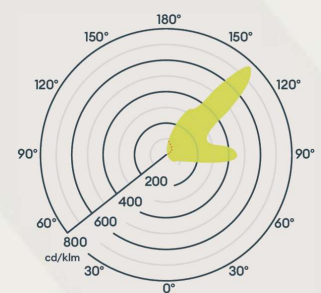
#### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

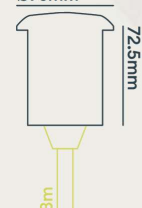
#### ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>TUBE/68</b>	Installation tubes	<b>44</b>

BEAM (°): 90



Ø76mm



## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

SDCM3 ensuring uniform light appearance and consistency

Single LED and lens combination for maximum efficiency and optimal light distribution

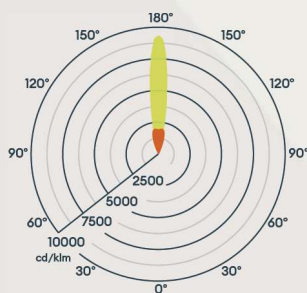
CRI 80 providing true colour appearance

Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat

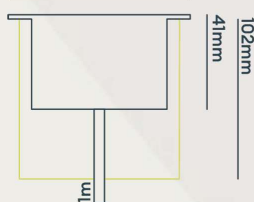
Long lifetime of 70,000hrs

Available in an array of colours

BEAM (°): 12, 40



Ø76mm



## GL040 ROUND

Round Ground Light

### FEATURES

<b>Impact Strength</b>	IK08
<b>IP Rating</b>	IP68
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	Fixed
<b>Dimmable</b>	None
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	70mm
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	55°C
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes
<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Colour	Beam (°)	150MA			700MA			Energy
			W	lm	Lm/W	W	lm	Lm/W	
GL040RSS22F	2200K	40	0.8W (150mA)	108	135	4.6W (700mA)	431	94	
GL040RSS22S	2200K	12	0.8W (150mA)	108	135	4.6W (700mA)	431	94	
GL040RSS27F	2700K	40	0.8W (150mA)	129	161	4.6W (700mA)	515	112	
GL040RSS27S	2700K	12	0.8W (150mA)	129	161	4.6W (700mA)	515	112	
GL040RSS30F	3000K	40	0.8W (150mA)	130	163	4.6W (700mA)	520	113	
GL040RSS30S	3000K	12	0.8W (150mA)	130	163	4.6W (700mA)	520	113	
GL040RSS40F	4000K	40	0.8W (150mA)	134	168	4.6W (700mA)	538	117	
GL040RSS40S	4000K	12	0.8W (150mA)	134	168	4.6W (700mA)	538	117	

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Made to order variants available in Square, Frosted, Half-Moon and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer



## GL016 ROUND

Low Voltage Ground Light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK07	<b>Cut Out Size</b>	50mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	Fixed	<b>Ambient Temperature</b>	55°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 70,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CRI>80	<b>Earth Leakage</b>	mA
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C		150MA				700MA			
Product Code	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy
GL016RSS22F	2200K	40	0.4W (150mA)	51	120	2.2W (700mA)	196	89	
GL016RSS22S	2200K	12	0.4W (150mA)	51	120	2.2W (700mA)	196	89	
GL016RSS27F	2700K	40	0.4W (150mA)	51	120	2.2W (700mA)	169	89	
GL016RSS27S	2700K	12	0.4W (150mA)	51	120	2.2W (700mA)	169	89	
GL016RSS30F	3000K	40	0.4W (150mA)	54	129	2.2W (700mA)	210	95	
GL016RSS30S	3000K	12	0.4W (150mA)	54	129	2.2W (700mA)	210	95	
GL016RSS40F	4000K	40	0.4W (150mA)	60	143	2.2W (700mA)	234	106	
GL016RSS40S	4000K	12	0.4W (150mA)	60	143	2.2W (700mA)	234	106	

In the part code to replace your colour, change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Made to order variants available in Square, Frosted, Half-Moon and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

**COMPATIBLE DRIVERS**  
See Pages 140-141 for complete LED driver offer

**IP68** IP68 perfect for internal or external applications

Coastal protected

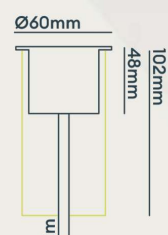
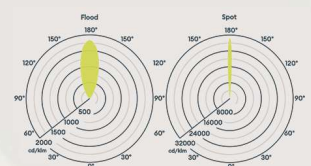
**IK07** IK07 impact protection (Stainless Steel only)

**GUARANTEE**  
7 years

**BENEFITS**

- Supplied complete with installation tube
- SDCM3 ensuring uniform light appearance and consistency
- CRI 80 providing true colour appearance
- Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat
- Robust cable for outdoor use
- Shallow depth for easy installation
- Available in an array of colours

BEAM (°): 12, 40



## GROUND LIGHTS

**IP68** IP68 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection (Stainless Steel only)

### GUARANTEE

7 years

### BENEFITS

Supplied complete with installation tube

SDCM3 ensuring uniform light appearance and consistency

Single LED and lens combination for maximum efficiency and optimal light distribution

CRI 80 providing true colour appearance



## GL040 ULTRA LOW GLARE

Ultra Low Glare Ground Light

### FEATURES

<b>Impact Strength</b>	IK08
<b>IP Rating</b>	IP68
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	Fixed
<b>Drive Over Walk Over</b>	Walk over
<b>Dimmable</b>	None
<b>Input</b>	150mA / 250mA / 350mA / 500mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	70mm
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	55°C
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Colour	Beam (°)	150MA			500MA			
			W	lm	Lm/W	W	lm	Lm/W	Energy
GL040USS22F	2200K	40	0.8W (150mA)	77	96	3W (500mA)	238	79	
GL040USS22S	2200K	12	0.8W (150mA)	77	96	3W (500mA)	238	79	
GL040USS27F	2700K	40	0.8W (150mA)	92	115	3W (500mA)	284	95	
GL040USS27S	2700K	12	0.8W (150mA)	92	115	3W (500mA)	284	95	
GL040USS30F	3000K	40	0.8W (150mA)	93	116	3W (500mA)	287	96	
GL040USS30S	3000K	12	0.8W (150mA)	93	116	3W (500mA)	287	96	
GL040USS40F	4000K	40	0.8W (150mA)	96	120	3W (500mA)	297	99	
GL040USS40S	4000K	12	0.8W (150mA)	96	120	3W (500mA)	297	99	

In the part code to replace your colour change SS (Stainless Steel) to AB (Antique Brass) or BK (Black). Important: BK finish is made to order. Made to order variants available in Square, Frosted, Half-Moon and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

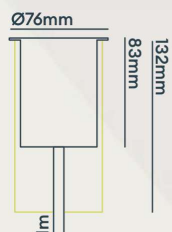
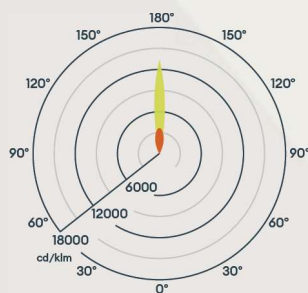
### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

BEAM (°): 12, 40





**IP65** IP65 perfect for internal or external applications

 Coastal protected

**IK06** IK06 impact protection (Stainless Steel only)

**GUARANTEE**  
7 years





**BENEFITS**

- Supplied complete with installation tube
- SDCM3 ensuring uniform light appearance and consistency
- Single LED and lens combination for maximum efficiency and optimal light distribution
- CRI 80 providing true colour appearance
- Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat
- Long lifetime of 70,000hrs
- Available in an array of colours

## GL038 MAINS

Straight to mains LED Ground light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK06	<b>Cut Out Size</b>	80-85mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	GL038AB: 9A 0.8ms, GL038BK: TBC, GL038SS: 60A 0.037ms, GL038BZ: TBC
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	Fixed	<b>Ambient Temperature</b>	35°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Electric Class</b>	I
<b>LED Life</b>	L70 70,000h	<b>Earth Leakage</b>	0.1mA
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

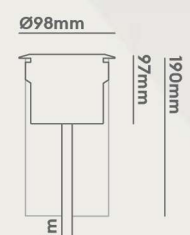
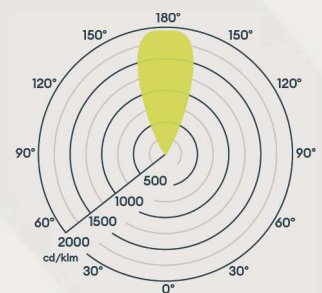
PHOTOMETRICS @ 25°C						
Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
GL038SS22MF	2.8W	2200K	40	249	89	
GL038SS27MF	2.8W	2700K	40	297	106	
GL038SS30MF	2.8W	3000K	40	300	107	
GL038SS40MF	2.8W	4000K	40	310	111	

In the part code to replace your colour, change SS to AB (Antique Brass), BK (Black) or BZ (Bronze). Important: BK & BZ finish are made to order. Made to order variants available in Low Voltage options. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

**COMPATIBLE DRIVERS**  
See for complete LED driver offer

BEAM (°): 40



# GROUND LIGHT ACCESSORIES

## Choose The Ideal Accessory For Your Ground Light

Change the correct size installation tube for your ground light.



## PRODUCT CODES

Product Code	Description	Guarantee
TUBE332	Ground light installation tube	1 Year
TUBE/50	Ground light installation tube	1 Year
TUBE/68	Ground light installation tube	1 Year

For full product specification visit [collingwoodlighting.com](http://collingwoodlighting.com)

## COMPATIBLE WITH

Product Code	GL200	GL019 Eyelid	GL021	GL022
TUBE332	X	●	X	X
TUBE/50	X	X	●	●
TUBE/68	●	X	X	X



**IP67** IP67 for complete protection

**IK08** IK08 (GLTM\_11/14) IK10 (GLTM\_16/19/22)

Suitable for coastal applications

**GUARANTEE**  
5 years

**BENEFITS**

- Tilt angle of luminaire is adjustable, just turn knob to tilt the light distribution up to 25 degrees
- Static loading capacity is 2000kg
- Pre-wired with 1 meter of cable to aid the installer
- DALI-2 dimmable and RGBW options also available
- Supplied with installation tube

## TILT ADJUSTABLE GROUND LIGHT

Straight to Mains, TRIAC mains dimmable

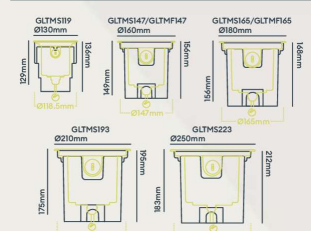
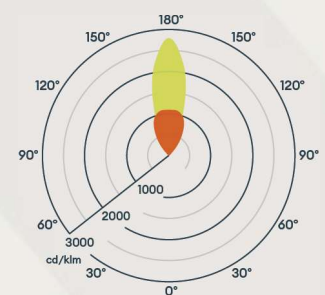
FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP67	<b>Inrush Current</b>	GLTM_11: 0.5A 0.4ms, GLTM_14: 0.6A 0.4ms, GLTM_16: 0.45A 0.5ms, GLTM_19: 0.55A 0.5ms, GLTM_22: 0.55A 0.5ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Anodised Aluminium, Stainless Steel 316
<b>Tilt Angle (°)</b>	25	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Drive over (15mph maximum)	<b>Ambient Temperature</b>	-25-40°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Electric Class</b>	I
<b>LED Life</b>	L70 50,000h	<b>Earth Leakage</b>	0.1mA
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C							
Product Code	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
GLTMF147T30	Ø147mm cut-out	12W	3000K	60	1200	100	
GLTMF165T30	Ø165mm cut-out	18W	3000K	60	1600	89	
GLTMS119T30	Ø119mm cut-out	6W	3000K	34	450	75	
GLTMS147T30	Ø147mm cut-out	12W	3000K	34	1200	100	
GLTMS165T30	Ø165mm cut-out	18W	3000K	34	1600	89	
GLTMS193T30	Ø193mm cut-out	23W	3000K	34	2300	100	
GLTMS223T30	Ø223mm cut-out	30W	3000K	34	3300	100	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F
<b>Conductor Cross Section</b>	1mm <sup>2</sup>

ACCESSORIES		
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>DM298FP</b>	100W LED 2 way push on/ off rotary dimmer	<b>0</b>
<b>DM298GRID</b>	250W LED mains grid dimmer	<b>0</b>

BEAM (°): 34, 60



# STEP LIGHTS



# STEP LIGHTING

## Functional And Decorative

### FUNCTIONAL STEP LIGHTING

Using lighting to highlight steps improves visual aesthetics and enhances safety, whilst adding an inviting glow to your space. Considerations should be made for maintenance and glare when positioning lighting, ensuring ultimate visual appeal and added security knowing the walkway is correctly lit.

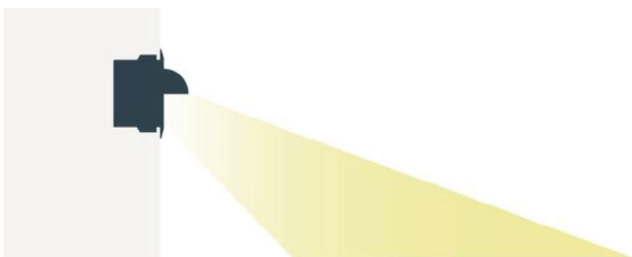


### LOW GLARE STEP LIGHTING

The purpose of step lighting is to mark or highlight a particular area. As this type of lighting serves a functional purpose, it is important that the fittings do not cause any visual discomfort from glare.

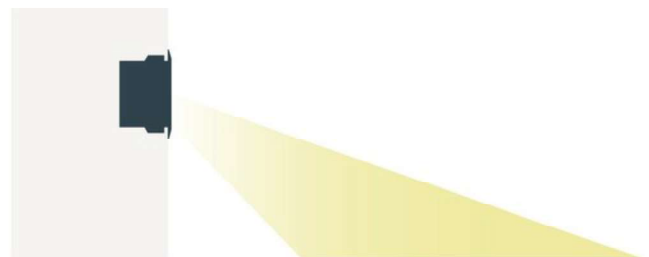
#### Hooded

Using a hood over the light will restrict upwards light spill. This results in low visibility of the light source from above and will prevent glare to passers-by.



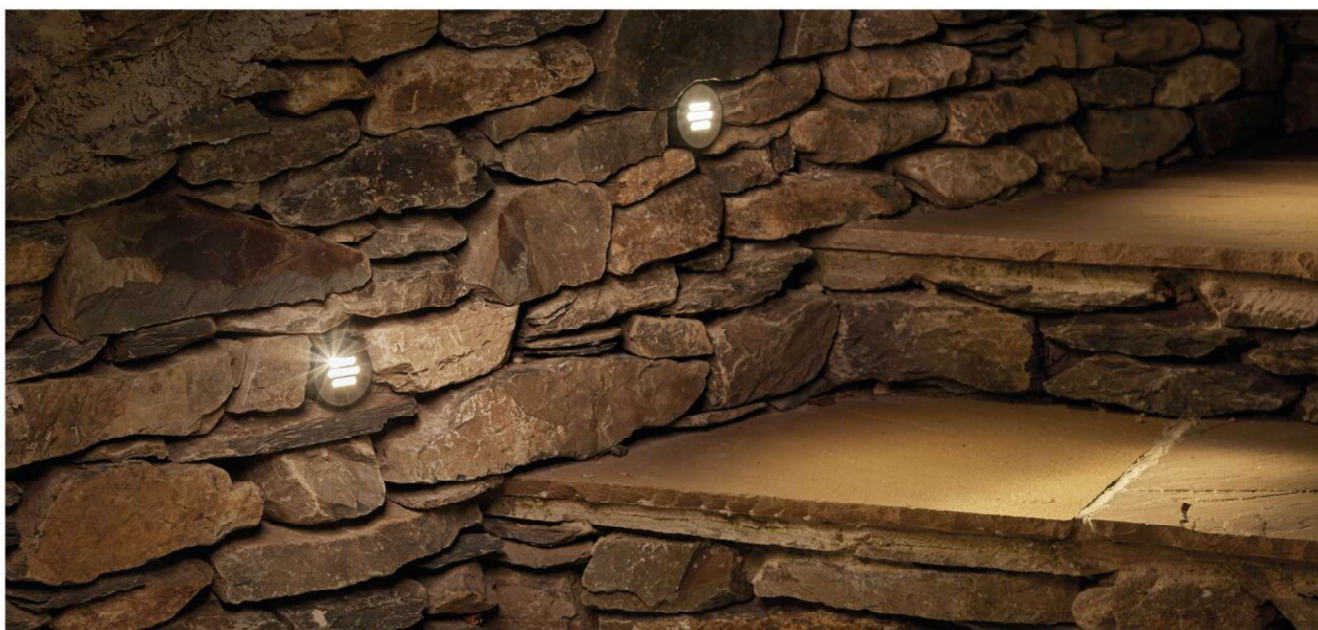
#### Asymmetric

An asymmetric light source will direct the light downwards, ensuring the stairway is illuminated without upwards glare, without the need of a hood. Eliminating the need for a hood allows these lights to also be used as ground lights.



## DECORATIVE STEP LIGHTING

Step lights can be used to enhance your landscape, to amplify your overall lighting when entertaining and for commercial exterior lighting. Linking people and spaces together, highlighting steps can make a real difference. Choose Collingwood's range of decorative step lighting which emit light from a decorative face-plate to transform your overall lighting design.



## ROUND AND SQUARE FITTINGS

Choose between round and square fittings to achieve the ideal style for your installation.



## HIGHLIGHT FEATURES AS

The asymmetric beam of step lights makes them great for using as a ground light that directs its light onto a feature.



## STEP LIGHTS



1W at 350mA or 2W at 700mA



Coastal protected



Low voltage step light

### GUARANTEE

7 years

### BENEFITS

Asymmetric beam angle

0% upward light spill

Recess into a wall, floor or ceiling

Suitable for indoor and outdoor use

33mm cut-out size



## GL019 EYELID

Asymmetric beam angle with zero upward light spill

### FEATURES

<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP68
<b>Colour Flexibility</b>	Single CCT
<b>Drive Over Walk Over</b>	No
<b>Dimmable</b>	None
<b>Input</b>	350mA / 700mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CR>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	33mm
<b>Inrush Current</b>	N/A
<b>Construction Material</b>	Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	50°C
<b>Mounting Options</b>	Frame Recessed
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Finish	Colour	Beam (°)	350MA			700MA			Energy
				W	lm	Lm/W	W	lm	Lm/W	
GL019E27BL	Black	2700K	50	1W (350mA)	31	31	2W (700mA)	56	28	
GL019E27SS	Stainless Steel	2700K	50	1W (350mA)	36	36	2W (700mA)	63	31	
GL019E30BL	Black	3000K	50	1W (350mA)	36	36	2W (700mA)	64	32	
GL019E30SS	Stainless Steel	3000K	50	1W (350mA)	41	41	2W (700mA)	72	36	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

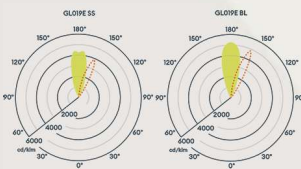
### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

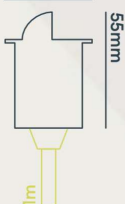
### ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>TUBE332</b>	Installation tubes	<b>44</b>

BEAM (°): 50



Ø40mm





**IP65** IP65 perfect for internal or external applications

 Coastal protected

**IK08** IK08 impact protection - walk over (Stainless Steel only)

**GUARANTEE**  
7 years

**BENEFITS**  
Supplied complete with installation tube  
SDCM3 ensuring uniform light appearance and consistency  
Single LED and lens combination for maximum efficiency and optimal light distribution  
CRI 80 providing true colour appearance  
Available in a new 2200K setting to create a warm and cosy environment with minimal disruption to natural habitat  
Long lifetime of 70,000hrs  
Available in an array of colours





## GL034 MAINS

Hooded Mains Ground Light

FEATURES	
Impact Strength	IK08
IP Rating	IP65
Colour Flexibility	Single CCT
Tilt Angle (°)	Fixed
Drive Over Walk Over	No
Dimmable	None
Input	220-240V AC
LED Life	L70 70,000h
CRI	CR>80
SDCM	SDCM3

INSTALLATION INFORMATION	
Cut Out Size	80-85mm
Inrush Current	GL034SS: 60A 0.037ms, Other Variant: TBC
Construction Material	Stainless Steel 316
Suitable For Coastal Areas	Yes
Ambient Temperature	35°C
SELV	Yes
Electric Class	I
Earth Leakage	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
GL034SS22MF	2.8W	2200K	40	154	55	
GL034SS27MF	2.8W	2700K	40	184	66	
GL034SS30MF	2.8W	3000K	40	186	66	
GL034SS40MF	2.8W	4000K	40	192	69	

In the part code to replace your colour, change SS to AB (Antique Brass) or BK (Black). Important: BK & AB finish are made to order. Made to order variants available in Low Voltage options. Energy rating is a reflection of the LED light source.

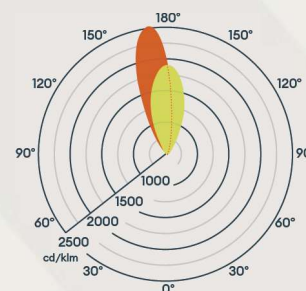
### WIRING INFORMATION

Type Of Wiring Required	Parallel
Power Cable	H05RN-F (dia 7mm)

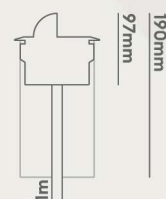
### ACCESSORIES

JB5	Gel filled waterproof junction box	150
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BEAM (°): 40



Ø98mm



## STEP LIGHTS

**1W** 1W at 350mA

 Coastal protected

 Low voltage groundlight

### GUARANTEE

7 years

### BENEFITS

Angled light, ideal for use as a step light

Robust cable for outdoor use

Brushed stainless steel for sleek effect



## GL021

30° slotted LED ground / step light

### FEATURES

<b>Impact Strength</b>	IK07
<b>IP Rating</b>	IP68
<b>Colour Flexibility</b>	Single CCT
<b>Drive Over Walk Over</b>	Walk over
<b>Dimmable</b>	None
<b>Input</b>	350mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRi>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	50mm
<b>Inrush Current</b>	N/A
<b>Construction Material</b>	Stainless Steel 316
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	35°C
<b>Mounting Options</b>	Wall
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
GL021 27	1W	2700K	30	8	8	
GL021 NW	1W	4000K	30	10	10	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

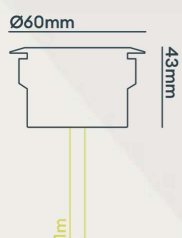
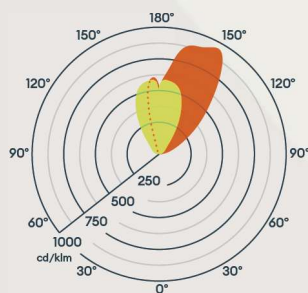
### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	150
<b>JB4</b>	Gel filled waterproof junction box	150
<b>JB6</b>	Inline IP68 gel filled cable connector	150
<b>TUBE/50</b>	Installation tubes	44
<b>WCR 275 BLACK</b>	2-core rubber cable	151

BEAM (°): 30





1W at 350mA



Coastal protected



Low voltage groundlight

**GUARANTEE**

7 years

**BENEFITS**

Angled light, ideal for use as a step light

Robust cable for outdoor use

Brushed stainless steel for sleek effect

## GL022

Square 30° slotted LED ground / step light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK07	<b>Cut Out Size</b>	50mm
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel 316
<b>Drive Over Walk Over</b>	Walk over	<b>Suitable For Coastal Areas</b>	Yes
<b>Dimmable</b>	None	<b>Ambient Temperature</b>	35°C
<b>Input</b>	350mA DC	<b>Mounting Options</b>	Wall
<b>LED Life</b>	L70 70,000h	<b>Electric Class</b>	III
<b>CRI</b>	CRI>80	<b>Constant Current</b>	Yes
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C

Product Code	W	Colour	Beam (°)	Im	Lm/W	Energy
GL022 27	1W	2700K	30	8	8	A B F
GL022 NW	1W	4000K	30	10	10	A B F
GL022 WW	1W	3000K	30	8	8	A B F

WIRING INFORMATION

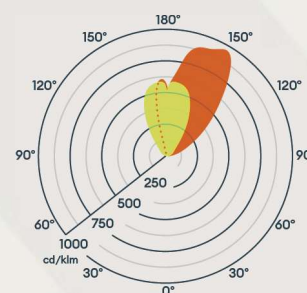
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

COMPATIBLE DRIVERS  
 See Pages 140-141 for complete LED driver offer

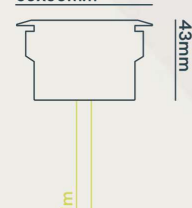
ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>TUBE/50</b>	Installation tubes	<b>44</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>

BEAM (°): 30



60x60mm



## STEP LIGHTS

**2,6W** 2.6W

 Coastal protected

 Main voltage step light

### GUARANTEE

7 years

### BENEFITS

Recessed, asymmetric wall or ground light perfect for illuminating walls, steps and pathways

Available in rustic cast stainless steel and sleek brushed stainless steel finishes

Installation tube included



## WL339

Asymmetric, straight to mains, cast finish step light


### FEATURES

<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Drive Over Walk Over</b>	Walk over
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Cut Out Size</b>	80mm
<b>Inrush Current</b>	9A 0.8ms
<b>Construction Material</b>	Stainless Steel 316
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	35°C
<b>SELV</b>	Yes
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL339WW	Stainless Steel	2.6W	3000K	50	50	19	

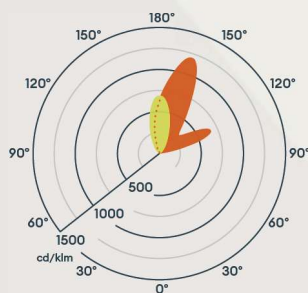
### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

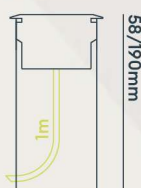
### ACCESSORIES

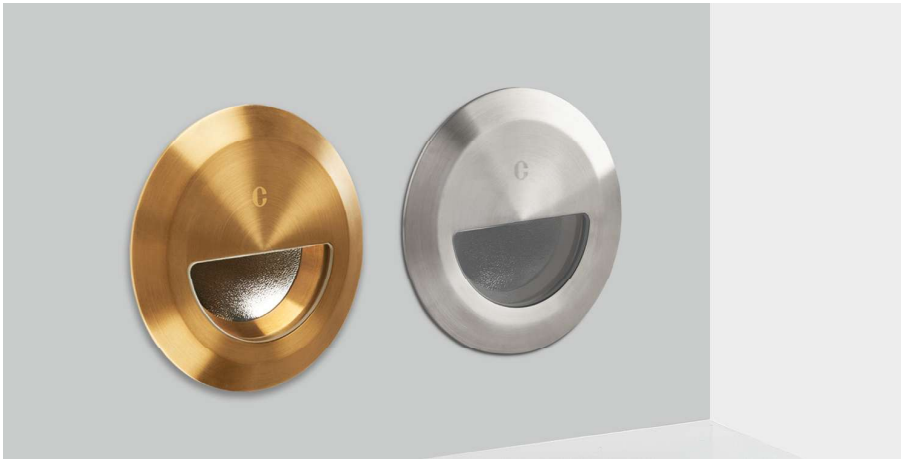
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
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BEAM (°): 50



Ø98mm





## WL340

Asymmetric, straight to mains, brush finish step light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	Other	<b>Cut Out Size</b>	80mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	9A 0.8ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel, Brass
<b>Drive Over Walk Over</b>	Walk over	<b>Suitable For Coastal Areas</b>	Yes
<b>Dimmable</b>	None	<b>Ambient Temperature</b>	35°C
<b>Input</b>	220-240V AC	<b>SELV</b>	Yes
<b>LED Life</b>	L70 70,000h	<b>Mounting Options</b>	Wall
<b>CRI</b>	CR180	<b>Electric Class</b>	I
<b>SDCM</b>	SDCM3	<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL340ABWW	Antique Brass	2.6W	3000K	50	50	19	
WL340WW	Stainless Steel	2.6W	3000K	50	50	19	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

### ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
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**2,6W** 2.6W

Coastal protected

Main voltage step light

### GUARANTEE

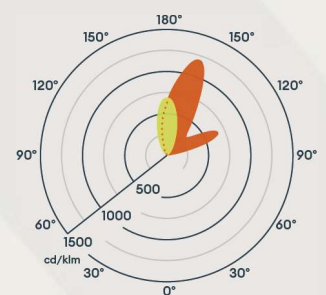
7 years

### BENEFITS

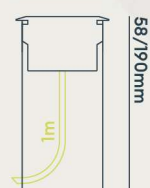
Installation tube included

Ideal for illuminating walls, steps and pathways

BEAM (°): 50



Ø98mm



## STEP LIGHTS

**2,6W** 2.6W

 Coastal protected

 Main voltage step light

### GUARANTEE

7 years

### BENEFITS

Can be used as a wall light or ground light

Installation tube included

1m H05RN-F rubber cable attached for permanent use outdoors




## WL341

Asymmetric, straight to mains, cast finish step light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	Other	<b>Inrush Current</b>	9A 0.8ms
<b>IP Rating</b>	IP65	<b>Construction Material</b>	Stainless Steel 316
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	35°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Electric Class</b>	I
<b>LED Life</b>	L70, 70,000h	<b>Earth Leakage</b>	0.1mA
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL341NW	Stainless Steel	2.6W	4000K	50	59	22	

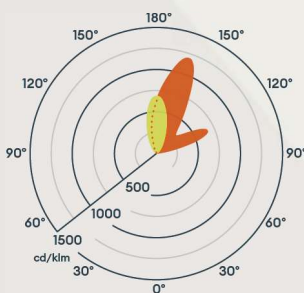
### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

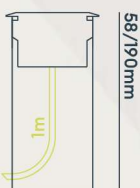
### ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
------------	------------------------------------	------------

BEAM (°): 50



98x98mm





## WL342

Asymmetric, straight to mains, brush finish step light

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	Other	<b>Cut Out Size</b>	80mm
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	9A 0.8ms
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Drive Over Walk Over</b>	Walk over	<b>Ambient Temperature</b>	35°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Mounting Options</b>	Wall
<b>LED Life</b>	L70 70,000h	<b>Electric Class</b>	I
<b>CRI</b>	CR1>80	<b>Earth Leakage</b>	0.1mA
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	Im	Lm/W	Energy
WL342AB27	Antique Brass	2.6W	2700K	50	49	19	
WL342AB30	Antique Brass	2.6W	3000K	50	50	19	
WL342WW	Stainless Steel	2.6W	3000K	50	50	19	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

### ACCESSORIES

<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
------------	------------------------------------	------------

**2,6W** 2.6W

Coastal protected

Main voltage step light

### GUARANTEE

7 years

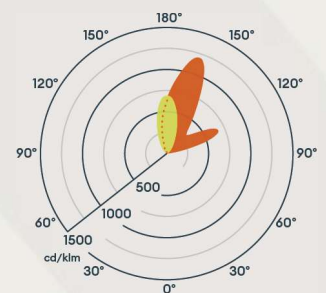
### BENEFITS

Can be used as a wall light or ground light

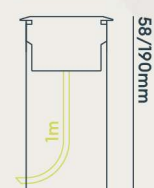
Installation tube included

1m H05RN-F rubber cable attached for permanent use outdoors

BEAM (°): **50**



**98x98mm**



# SPIKE LIGHTS



# SPIKE LIGHTS

To Create Engaging Outdoor Spaces

## CHOOSE YOUR EFFECT

Spike lights can be used in a variety of ways, for example, illuminating pathways, highlighting mid-level planting or to pick out certain features within a garden. The great thing about these products is that they can move as your landscape changes season to season, year to year.



Pathways



Mid-level planting



Features

## LAYERING LIGHT

Spike lights can effectively work as the main focus of an outdoor lighting scheme; however, they also work well in spreading the focus throughout an installation. Combine various effects using these versatile fittings to light features at different levels and to create a scene with depth and interest. Pathway lighting can be combined with uplighting to create a multi-layered effect.

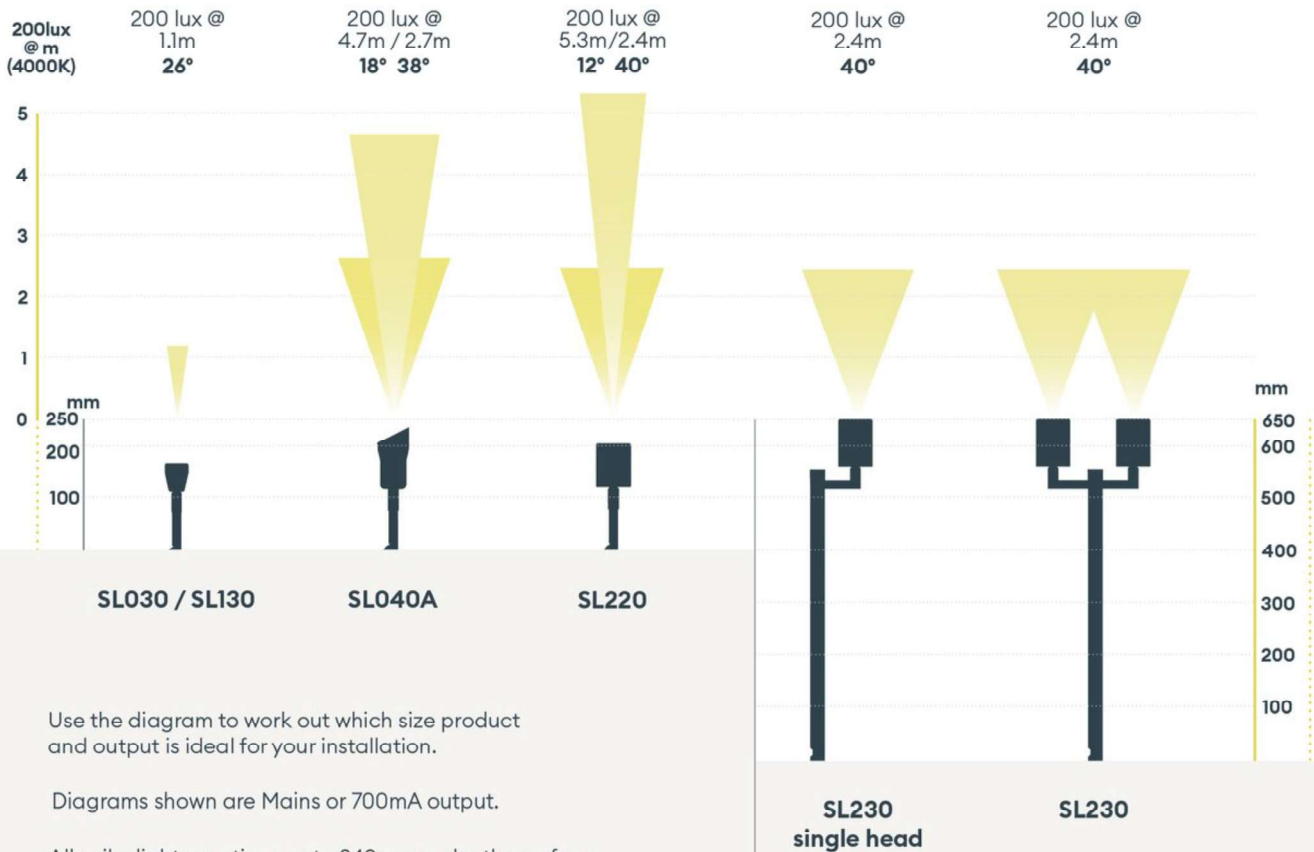


Light confined to one area



Light spread across installation

## PRODUCT COMPARISON



## LOW GLARE HOODS AND SNOOTS

Upgrade the look and feel of your spike light installation with a simple low glare hood or snoot accessory. The accessories minimise any 'spill light' from the product to create a crisp beam of light which is low glare.

### Standard spike light



Flexible spike lighting with a high-quality fixture. Without using an accessory the beam of light has a soft halo around the measured beam angle.

### Low glare hood



A simple solution to create discreet lighting whilst optimising the light distribution. The widest part of the hood reduces the spill light from one side of the light.

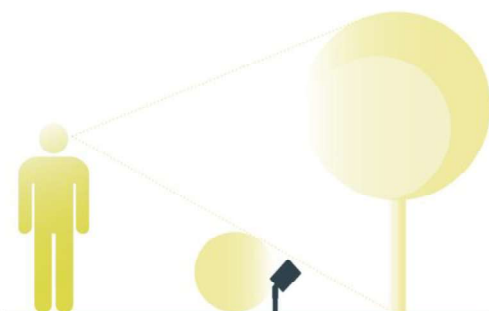
### Low glare snoot



This cylindrical snoot accentuates the style factor. Perfect for creating a moonlight effect the snoot reduces the spill light in all directions.

## DISCREET LIGHTING

Conceal your spike lights to allow attention to focus on the illumination, not the light source.



## MADE TO ORDER

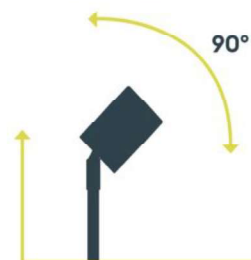
		SL220
Finish / Material	Antique Brass	●
	Black	●
	Bronze	●
	Stainless Steel	●
Beam Angle	Spot	●
	Flood	●
Lit Effect	Clear Glass	●
	Frosted Glass	●
	Honeycomb Low-Glare	●
	Half Moon Glass	●
CCT	2200K	●
	2700K	●
	3000K	●
	4000K	●
Low Voltage Option		●

## WATERPROOF

Our spike lights are waterproof to IP65 and have been designed for permanent use outdoors. Spike lights must be installed using waterproof connections to avoid moisture ingress through non-waterproof joints.

## FLEXIBILITY

Spike lights are the most flexible lighting choice for a garden as they can be used in a variety of environments and are easy to manoeuvre, which gives the option to change the lighting scheme to reflect the season.



### Tilt

Select the best angle to illuminate features.

### Move

Simply pick up and move a spike light to illuminate a different feature.

## SPIKE LIGHTS



1W at 350mA or 2W at 700mA



Coastal protected



IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

Long spike included for extra stability

Robust cable for outdoor use

Small & discreet

Single Point Source LED



## SLO30 | SL130

1W LED spike light

### FEATURES

<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	90
<b>Rotation Angle (°)</b>	Fixed
<b>Dimmable</b>	None
<b>Input</b>	350mA / 700mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Construction Material</b>	Stainless Steel 316, Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	35°C
<b>Mounting Options</b>	Floor
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Finish	Colour	Beam (°)	350MA			700MA			Energy
				W	lm	Lm/W	W	lm	Lm/W	
SL030 F 27	Stainless Steel 316	2700K	26	1W	70	70	2W	120	60	A F
SL030 F NW	Stainless Steel 316	4000K	26	1W	95	95	2W	140	70	A F
SL030 F WW	Stainless Steel 316	3000K	26	1W	75	75	2W	135	68	A F
SL13027	Black	2700K	26	1W	70	70	2W	120	60	A F
SL13030	Black	3000K	26	1W	75	75	2W	135	68	A F
SL13040	Black	4000K	26	1W	95	95	2W	140	70	A F
SL130ZMBX27	Bronze	2700K	26	1W	70	70	2W	120	60	A F
SL130ZMBX30	Bronze	3000K	26	1W	75	75	2W	135	68	A F

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

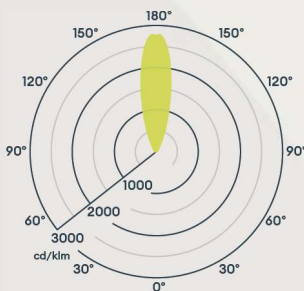
### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	150
<b>JB4</b>	Gel filled waterproof junction box	150
<b>JB6</b>	Inline IP68 gel filled cable connector	150
<b>WCR 275 BLACK</b>	2-core rubber cable	151

BEAM (°): 26



Ø42mm





## SL040A

High output LED spike light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Construction Material</b>	Anodised Aluminium
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	90	<b>Ambient Temperature</b>	35°C
<b>Rotation Angle (°)</b>	Fixed	<b>Mounting Options</b>	Floor
<b>Dimmable</b>	None	<b>Electric Class</b>	III
<b>Input</b>	700mA DC	<b>Constant Current</b>	Yes
<b>LED Life</b>	L70 70,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
SL040A F 27	Black	7W	2700K	38	377	54	
SL040A F WW	Black	7W	3000K	38	413	59	
SL040A S 27	Black	7W	2700K	18	377	54	
SL040A S WW	Black	7W	3000K	18	413	59	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>

**7W** 7W

Coastal protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

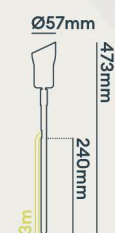
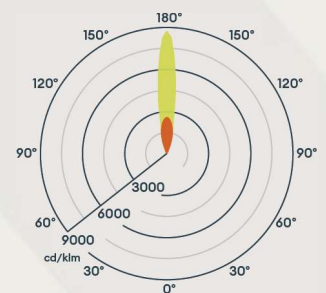
### BENEFITS

Long spike included for extra stability

Robust cable for outdoor use

Hooded for reduced glare

BEAM (°): **18, 38**



## SPIKE LIGHTS



Switchable driver option for quick and easy installation



Coastal protected



IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

Tiltable for flexible lighting direction to help suit any installation

SDCM3 ensuring uniform light appearance and consistency

Single LED and lens combination for maximum efficiency and optimal light distribution

Choice of material finish to suit different styles



## SL220 LOW VOLTAGE

Low Voltage LED Spike light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	0.07ms 5.2A
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	90	<b>Ambient Temperature</b>	55°C
<b>Rotation Angle (°)</b>	Fixed	<b>SELV</b>	Yes
<b>Dimmable</b>	None	<b>Electric Class</b>	III
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC	<b>Constant Current</b>	Yes
<b>LED Life</b>	L70 70,000h		
<b>CRI</b>	CR>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C		150MA		700MA					
Product Code	Colour	Beam (°)	W	Im	Lm/W	W	Im	Lm/W	Energy
SL220SS27XF	2700K	40	0.8W (150mA)	129	161	4.6W (700mA)	515	112	A++
SL220SS27XS	2700K	12	0.8W (150mA)	129	161	4.6W (700mA)	515	112	A++
SL220SS30XF	3000K	40	0.8W (150mA)	130	163	4.6W (700mA)	520	113	A++
SL220SS30XS	3000K	12	0.8W (150mA)	130	163	4.6W (700mA)	520	113	A++
SL220SS40XF	4000K	40	0.8W (150mA)	134	168	4.6W (700mA)	538	117	A++
SL220SS40XS	4000K	12	0.8W (150mA)	134	168	4.6W (700mA)	538	117	A++

In the part code to replace your colour, change SS to BK (Black). Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

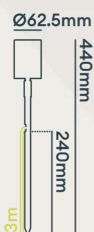
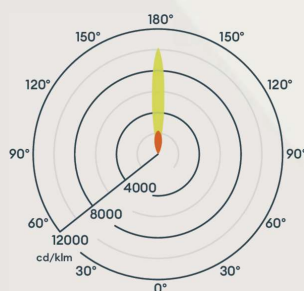
  

COMPATIBLE DRIVERS	
See Pages 140-141 for complete LED driver offer	

ACCESSORIES		
<b>JB2</b>	Waterproof junction box	150
<b>JB4</b>	Gel filled waterproof junction box	150
<b>JB6</b>	Inline IP68 gel filled cable connector	150

BEAM (°): 12, 40





## SL220 MAINS

Mains Voltage LED Spike light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	0.07ms 5.2A
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	90	<b>Ambient Temperature</b>	55°C
<b>Rotation Angle (°)</b>	Fixed	<b>SELV</b>	Yes
<b>Dimmable</b>	None	<b>Electric Class</b>	I
<b>Input</b>	220-240V AC	<b>Earth Leakage</b>	0.1mA
<b>LED Life</b>	L70 70,000h		
<b>CRI</b>	CR180		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C						
Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
SL220SS27MS	5.7W	2700K	12	515	90	
SL220SS30MS	5.7W	3000K	12	520	91	
SL220SS40MF	5.7W	4000K	40	538	94	
SL220SS40MS	5.7W	4000K	12	538	94	

In the part code to replace your colour, change SS to BK (Black). Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 6mm)

ACCESSORIES		
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>
<b>GH220</b>	Low-glare, tapered hood	<b>71</b>
<b>GS220</b>	Low-glare, cylindrical snoot	<b>71</b>

**5.7W** 5.7W

Coastal protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

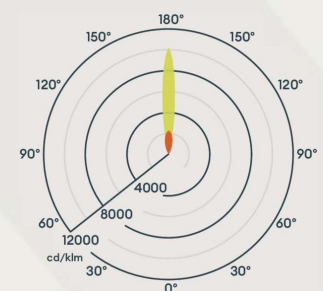
Tiltable for flexible lighting direction to help suit any installation

SDCM3 ensuring uniform light appearance and consistency

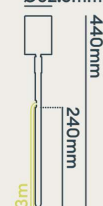
Single LED and lens combination for maximum efficiency and optimal light distribution

Choice of material finish to suit different styles

BEAM (°): 12, 40



Ø62.5mm



## SPIKE LIGHTS

**2.2W or 4.4W** 2.2W at 350mA or 4.4W at 700mA

 Coastal protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

Single LED and lens combination for maximum efficiency and optimal light distribution

Choice of material finish to suit different styles

Choose from a range of hoods for reduced glare.



GH220B



GS220B

## SL230 SINGLE HEAD

Low voltage single head LED spike light



### FEATURES

<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	90
<b>Rotation Angle (°)</b>	330
<b>Dimmable</b>	None
<b>Input</b>	350mA / 700mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Construction Material</b>	Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	50°C
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Finish	Colour	Beam (°)	350MA			700MA			Energy
				W	lm	Lm/W	W	lm	Lm/W	
SLX230SHA30	Anthracite	3000K	40	2.2W	300	136	4.6W	520	113	
SLX230SHB30	Black	3000K	40	2.2W	300	136	4.6W	520	113	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

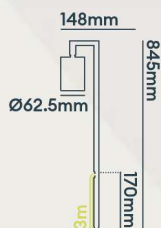
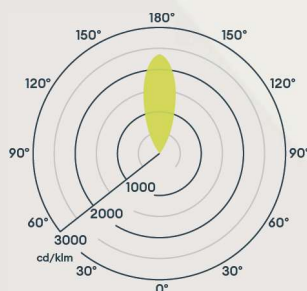
### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>GH220</b>	Low-glare, tapered hood	<b>71</b>
<b>GS220</b>	Low-glare, cylindrical snoot	<b>71</b>
<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>

BEAM (°): 40





## SL230 SINGLE HEAD MAINS

Mains voltage single head LED spike light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	60A 37µs (SLM230SH_...)
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Anodised Aluminium
<b>Tilt Angle (°)</b>	90	<b>Suitable For Coastal Areas</b>	Yes
<b>Rotation Angle (°)</b>	330	<b>Ambient Temperature</b>	50°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Electric Class</b>	I
<b>LED Life</b>	L70 70,000h	<b>Earth Leakage</b>	0.1mA
<b>CRI</b>	CR>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C							
Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
SLM230SHA30	Anthracite	5.7W	3000K	40	520	91	
SLM230SHB30	Black	5.7W	3000K	40	520	91	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

ACCESSORIES		
<b>GH220</b>	Low-glare, tapered hood	<b>71</b>
<b>GS220</b>	Low-glare, cylindrical snoot	<b>71</b>
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>

**5.7W** 5.7W

Coastal protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

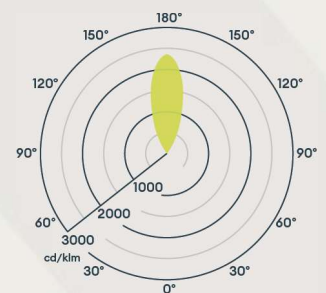
High efficacy of 91lm/W

Single LED and lens combination for maximum efficiency and optimal light distribution

Choice of material finish to suit different styles

Choose from a range of hoods for reduced glare.

BEAM (°): **40**



## SPIKE LIGHTS

**4.4W or 9.2W** 4.4W at 350mA or 9.2W at 700mA

 Coastal protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

Adjustable pole-mounted twin heads are perfect for illuminating paths, steps and trees

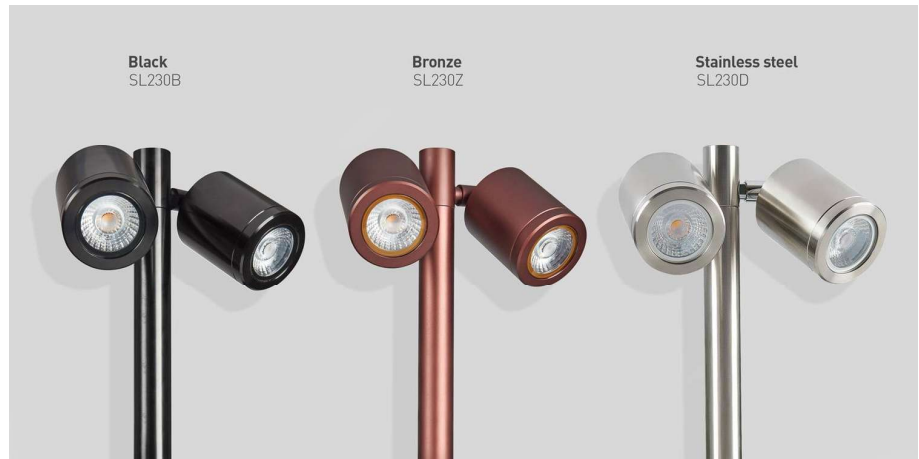
Easily ground mounted with spiked pole and single cable for quick installation

Elegant and discreet black and bronze finishes

Highly efficiency of 114lm/W

Discreet cabling

Additional accessories also available such as hoods and snoots



## SL230

Low voltage LED twin pole spike light






### FEATURES

<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	90
<b>Rotation Angle (°)</b>	330
<b>Dimmable</b>	None
<b>Input</b>	350mA / 700mA DC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Construction Material</b>	Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	35°C
<b>Mounting Options</b>	Floor
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Finish	Colour	Beam (°)	350MA			700MA			Energy
				W	lm	Lm/W	W	lm	Lm/W	
SL230BWBX27	Black	2700K	40	4.4W	580	135	9.2W	1030	111	
SL230BWBX30	Black	3000K	40	4.4W	580	140	9.2W	1030	112	
SL230DWBX30	Stainless Steel	3000K	40	4.4W	580	140	9.2W	1030	112	
SL230ZWBX27	Bronze	2700K	40	4.4W	580	135	9.2W	1030	111	
SL230ZWBX30	Bronze	3000K	40	4.4W	600	140	9.2W	1040	112	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

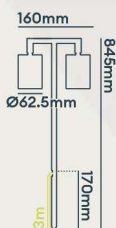
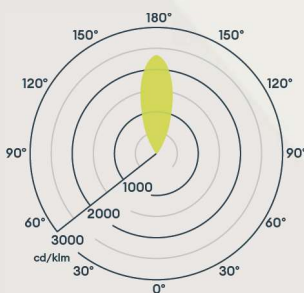
### COMPATIBLE DRIVERS

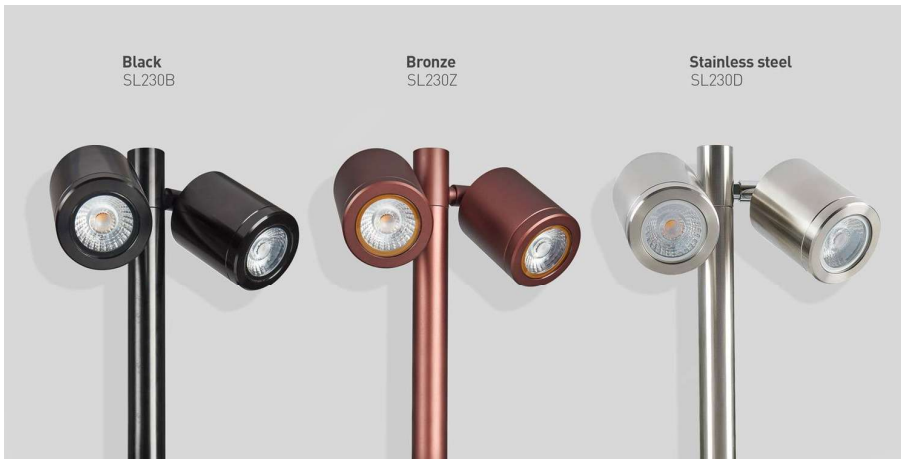
See Pages 140-141 for complete LED driver offer

### ACCESSORIES

<b>GH220</b>	Low-glare, tapered hood	<b>71</b>
<b>GS220</b>	Low-glare, cylindrical snoot	<b>71</b>
<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>

BEAM (°): 40





## SL230 MAINS

Mains voltage LED twin pole spike light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	120A 37µs
<b>Colour Flexibility</b>	Single CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Tilt Angle (°)</b>	90	<b>Ambient Temperature</b>	35°C
<b>Rotation Angle (°)</b>	330	<b>SELV</b>	Yes
<b>Dimmable</b>	None	<b>Mounting Options</b>	Floor
<b>Input</b>	220-240V AC	<b>Electric Class</b>	I
<b>LED Life</b>	L70 70,000h	<b>Earth Leakage</b>	0.1mA
<b>CRI</b>	CR>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
SL230BWBM27	Black	11.4W	2700K	40	1030	2 x 90	A
SL230BWBM30	Black	11.4W	3000K	40	1040	2 x 91	A
SL230DWBM27	Stainless Steel	11.4W	2700K	40	1030	2 x 90	A
SL230DWBM30	Stainless Steel	11.4W	3000K	40	1040	2 x 91	A
SL230ZWBM30	Bronze	11.4W	3000K	40	1040	2 x 91	A

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

### ACCESSORIES

<b>GH220</b>	Low-glare, tapered hood	<b>71</b>
<b>GS220</b>	Low-glare, cylindrical snoot	<b>71</b>
<b>JB5</b>	Gel filled waterproof junction box	<b>150</b>

**11.4W** 11.4W

 Coastal protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

Adjustable pole-mounted twin heads are perfect for illuminating paths, steps and trees

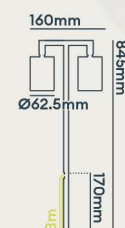
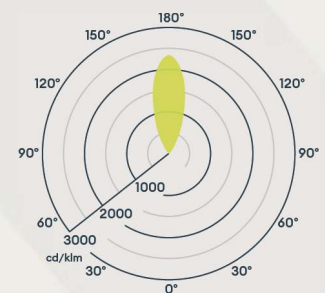
Easily ground mounted with spiked pole and single cable for quick installation

Elegant and discreet black and bronze finishes

Mains voltage for easy installation

Highly efficiency of 93lm/W

BEAM (°): 40





# SPIKE LIGHT ACCESSORIES

## Choose The Ideal Accessory For Your Spike Light

Lower the glare of your spike light for visual comfort and improving it's effect on wildlife.

GH220

GS220

Accessory on its own



Accessory on product



## PRODUCT CODES

Product Code	Finish	Description	Guarantee
GH220B	Black	Low-glare, tapered hood	7 year extended warranty
GH220D	Stainless steel 316	Low-glare, tapered hood	7 year extended warranty
GH220Z	Bronze	Low-glare, tapered hood	7 year extended warranty
GS220B	Black	Low-glare, cylindrical snoot	7 year extended warranty
GS220D	Stainless steel 316	Low-glare, cylindrical snoot	7 year extended warranty
GS220Z	Bronze	Low-glare, cylindrical snoot	7 year extended warranty

For full product specification visit [collingwoodlighting.com](http://collingwoodlighting.com)

## COMPATIBLE WITH

Product Code	SL030	SL040A	SL220	SL220 Mains
GH220B	X	X	●	●
GH220D	X	X	●	●
GH220Z	X	X	●	●
GS220B	X	X	●	●
GS220D	X	X	●	●
GS220Z	X	X	●	●

## SPIKE LIGHTS



Switchable between 2200K and 3000K



360° even light distribution



IP66 ideal for outdoor areas

### GUARANTEE

5 years

### BENEFITS

Installation spike included with product

Water ingress protection device included in cable

Can be dimmable based on driver used

A full range of aesthetical and installation accessories available

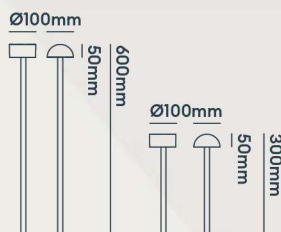
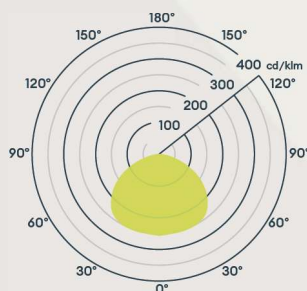
DC in Product Code = Domed Cover

FC in Product Code = Flat Cover

Product is delivered with Cover and Installation Spike as standard

Our anodised finish offers high corrosion resistance and excellent coastal protection, proven by a 1000hr salt mist test

BEAM (°): 120



## SPYDRA

CCT colour switchable LED low voltage spike light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP66	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Switchable CCT	<b>Construction Material</b>	Aluminium
<b>Tilt Angle (°)</b>	Fixed	<b>Suitable For Coastal Areas</b>	Yes
<b>Dimmable</b>	None	<b>Ambient Temperature</b>	-20-40°C
<b>Input</b>	700mA DC	<b>Electric Class</b>	III
<b>LED Life</b>	L70 50,000h	<b>Constant Current</b>	Yes
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C					
W	Colour	Beam (°)	lm	Lm/W	Energy
3W	2200K	120	240	60	
	3000K		310	77	
6.5W	2200K	120	450	56	
	3000K		580	73	

Default Settings: 3000K colour temperature, 24W power consumption. Energy rating is a reflection of the LED light source.

PRODUCT CODES					
<b>SPYA3DCS</b>	300mm Domed Grey	<b>SPYA6FCS</b>	600mm Flat Grey	<b>SPYB6DCS</b>	600mm Domed Black
<b>SPYA3FCS</b>	300mm Flat Grey	<b>SPYB3DCS</b>	300mm Domed Black	<b>SPYB6FCS</b>	600mm Flat Black
<b>SPYA6DCS</b>	600mm Domed Grey	<b>SPYB3FCS</b>	300mm Flat Black		

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

ACCESSORIES		
<b>SPYBASEA</b>	Spydra Base Plate for surface mounting, Grey	<b>73</b>
<b>SPYBASEB</b>	Spydra Base Plate for surface mounting, Black	<b>73</b>
<b>SPYDCOVA</b>	Spydra Domed Cover Round, Grey	<b>73</b>
<b>SPYDCOVB</b>	Spydra Domed Cover Round, Black	<b>73</b>
<b>SPYFCOVA</b>	Spydra Flat Cover, Grey	<b>73</b>
<b>SPYFCOVB</b>	Spydra Flat Cover, Black	<b>73</b>
<b>SPYSPIKE</b>	Spydra Spike Kit Accessory	<b>73</b>

# SPYDRA ACCESSORIES

## Choose The Ideal Accessory For Your Spydra Light

Choose the ideal aesthetic and mounting options.



## PRODUCT CODES

Product Code	Description
SPYBASEA	Spydra Base Plate for surface mounting, Grey
SPYBASEB	Spydra Base Plate for surface mounting, Black
SPYDCOVA	Spydra Domed Cover Round, Grey
SPYDCOV B	Spydra Domed Cover Round, Black
SPYFCOVA	Spydra Flat Cover, Grey
SPYFCOV B	Spydra Flat Cover, Black

For full product specification visit [collingwoodlighting.com](http://collingwoodlighting.com)

## COMPATIBLE WITH

Product Code	SPYA3DCS	SPYA3FCS	SPYB3DCS	SPYB3FCS	SPYA6DCS	SPYA6FCS	SPYB6DCS	SPYB6FCS
SPYBASEA	●	●	✗	✗	●	●	✗	✗
SPYBASEB	✗	✗	●	●	✗	✗	●	●
SPYDCOVA	●	●	✗	✗	●	●	✗	✗
SPYDCOV B	✗	✗	●	●	✗	✗	●	●
SPYFCOVA	●	●	✗	✗	●	●	✗	✗
SPYFCOV B	✗	✗	●	●	✗	✗	●	●

# FEATURE LIGHTS



# FEATURE LIGHTS

A Flexible Solution

## MADE TO ORDER

		UL010	UL030
Finish / Material	Antique Brass	●	●
	Black	●	●
	Bronze	●	●
	Stainless Steel	●	●
Beam Angle	Spot	X	●
	Flood	●	●
Lit Effect	Clear Glass	●	●
	Frosted Glass	X	X
	Honeycomb Low-Glare	●	●
	Half Moon Glass	X	X
CCT	2200K	●	●
	2700K	●	●
	3000K	●	●
	4000K	●	●
Low Voltage Option		●	●

## FLEXIBILITY

With a 360° rotation and 180° tilt, our UL010 and UL030 lights provide ultimate flexibility with the ability to be pointed in any direction, illuminating the areas you want to showcase.

### 360° rotation

This is achieved with an adjustable bracket at the base of the product.



### 180° tiltable

Using the bracket directly attached to the product, the light can be tilted upwards and downwards.



## MOUNT ANYWHERE

Designed with flexibility in mind, our fittings can be mounted on to most surfaces. The screw-in structure allows for attaching to a hard surface securely, where recessing a light is impossible.



## OUTPUT OPTIONS

Both products have a narrow beam which means punchy illumination from a neat and compact fitting. As each installation is unique, it may require a high or low output fitting.

### High output

The UL030 is ideal for general illumination.



### Low output

The UL010 works well for subtle feature illumination.



## LIGHTING EFFECT

A number of effects can be created when strategically lighting water and water features.

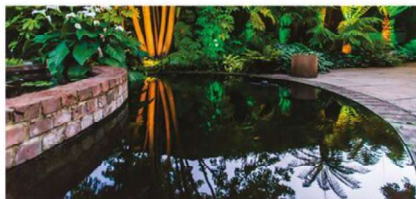
### Backlighting waterfalls

Adding lighting to the soothing sound of a waterfall can create a calm and peaceful atmosphere.



### Reflections

Indirectly illuminate by up lighting surrounding shrubs and trees; unique reflections will be cast into the water.



### Highlighting water features

Maintain maximum visual impact after the sun sets by using spot lighting to highlight water features.



## ADDING DEPTH TO YOUR LANDSCAPE

Highlighting water features can add significant depth and appeal to the overall landscape design.



## COASTAL PROTECTION

Our UL010 and UL030 products completely protected from the effects of rust and salt water corrosion. This includes our marine-grade 316 and antique brass finish.



## SUBMERSIBLE FITTINGS

Our Collingwood patented technology ensures that our UL010 and UL030 IP68 rated feature lights are completely air tight and can be used under water.



## THE RIPPLE EFFECTS

As water moves and ripples, the light moves with it. This adds a sense of motion and fluidity to your scheme and sparks visual interest.



## FEATURE LIGHTS



Switchable driver option for quick and easy installation



Coastal Protected



IP68 ideal for outdoor areas and under water lighting

### GUARANTEE

7 years

### BENEFITS

Single LED and lens combination for maximum efficiency and optimal light distribution

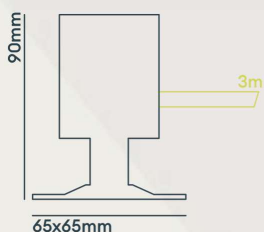
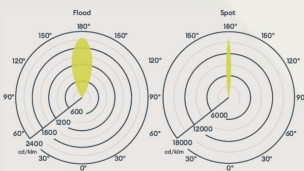
Complete with wall fixings

Tilt & rotate for adjusting light

Available in an array of colours

Long lifetime of 70,000hrs

BEAM (°): 12, 40



## UL030

High output universal LED light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel
<b>Tilt Angle (°)</b>	360	<b>Suitable For Coastal Areas</b>	Yes
<b>Rotation Angle (°)</b>	360	<b>Ambient Temperature</b>	55°C
<b>Sensor</b>	None	<b>Electric Class</b>	III
<b>Dimmable</b>	None	<b>Constant Current</b>	Yes
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC		
<b>LED Life</b>	L70 70,000h		
<b>CRI</b>	CRi>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C		150MA		700MA					
Product Code	Colour	Beam (°)	W	Im	Lm/W	W	Im	Lm/W	Energy
UL030SS22XF	2200K	40	0.85W (150mA)	108	135	4.6W (700mA)	431	94	A
UL030SS22XS	2200K	12	0.85W (150mA)	108	135	4.6W (700mA)	431	94	A
UL030SS27XF	2700K	40	0.85W (150mA)	129	161	4.6W (700mA)	515	112	A
UL030SS27XS	2700K	12	0.85W (150mA)	129	161	4.6W (700mA)	515	112	A
UL030SS30XF	3000K	40	0.85W (150mA)	130	163	4.6W (700mA)	520	113	A
UL030SS30XS	3000K	12	0.85W (150mA)	130	163	4.6W (700mA)	520	113	A
UL030SS40XF	4000K	40	0.85W (150mA)	134	168	4.6W (700mA)	538	117	A
UL030SS40XS	4000K	12	0.85W (150mA)	134	168	4.6W (700mA)	538	117	A

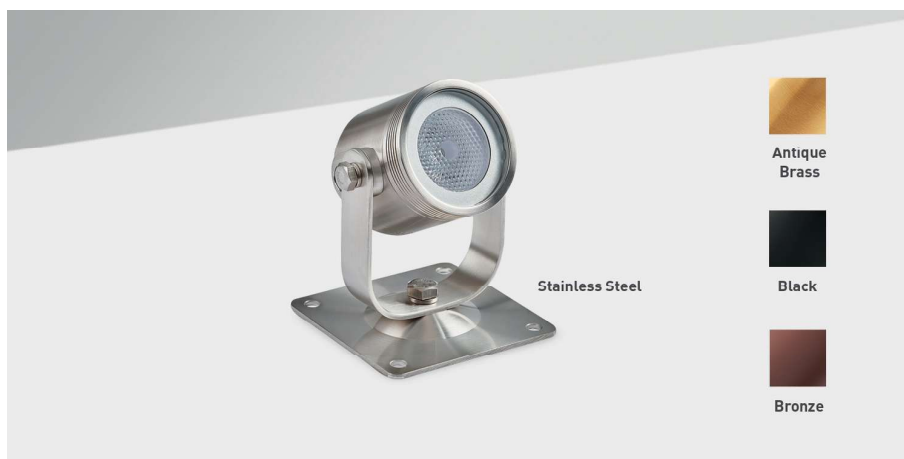
In the part code to replace your colour, change SS to AB (Antique Brass) or BK (Black). Made to order variants available in 2200K and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

### COMPATIBLE DRIVERS

See Pages 140-141 for complete LED driver offer



# UL010

Universal LED light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP68	<b>Inrush Current</b>	N/A
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Stainless Steel
<b>Tilt Angle (°)</b>	360	<b>Suitable For Coastal Areas</b>	Yes
<b>Rotation Angle (°)</b>	360	<b>Ambient Temperature</b>	55°C
<b>Sensor</b>	None	<b>Electric Class</b>	III
<b>Dimmable</b>	None	<b>Constant Current</b>	Yes
<b>Input</b>	150mA / 250mA / 350mA / 500mA / 700mA DC		
<b>LED Life</b>	L70 70,000h		
<b>CRI</b>	CR1>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C		150MA		700MA					
Product Code	Colour	Beam (°)	W	lm	Lm/W	W	lm	Lm/W	Energy
UL010SS22XF	2200K	40	0.4W (150mA)	51	120	2.2W (700mA)	196	89	
UL010SS27XF	2700K	40	0.4W (150mA)	51	120	2.2W (700mA)	196	89	
UL010SS30XF	3000K	40	0.4W (150mA)	54	129	2.2W (700mA)	210	95	
UL010SS40XF	4000K	40	0.4W (150mA)	60	143	2.2W (700mA)	234	106	

In the part code to replace your colour, change SS to AB (Antique Brass) or BK (Black). Made to order variants available in 2200K and Honeycomb Mesh options. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

**COMPATIBLE DRIVERS**  
See Pages 140-141 for complete LED driver offer

ACCESSORIES		
<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>

Switchable driver option for quick and easy installation

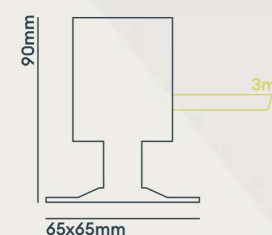
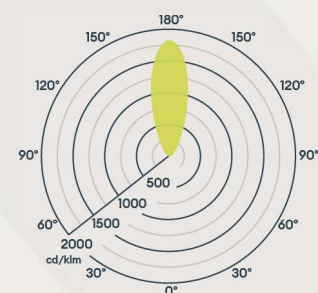
Coastal Protected

**IP68** IP68 ideal for outdoor areas and under water lighting

**GUARANTEE**  
7 years

**BENEFITS**  
Complete with wall fixings  
Robust cable for use outdoors  
Tilt & rotate for adjusting light  
Available in an array of colours  
Long lifetime of 70,000hrs

BEAM (°): 40



# WALL LIGHT



# WALL LIGHTS

To Create Secure And Adventurous Spaces

## CHOOSE YOUR EFFECT AND HOW TO CREATE IT

Highlight architecture or illuminate an entrance with Collingwood wall lights. The images below illustrate how your choice of lighting creates different effects.

### Choose your effect:



#### WL070

This up / down light produces a narrow and concentrated beam of light up and downwards. This is used most effectively in situations where there is a great deal of height to fully appreciate the effect of the columns of light.

As a result, these fittings are great for framing doors and windows.



#### WL075

The narrow and intense beam of light from this fitting will enhance the texture of the surface upon which it is mounted. This product works well on uneven stone and provides plenty of contrast between areas of light and shade.



#### WL060

This fitting provides a diffused decorative light from its top and a broad spread of down light which will light the threshold of a doorway. This fitting will also ensure both comfort and safety are accommodated in addition to highlighting any decorative planting positioned below.



## PREMIUM FINISHES

Available in a range of stylish finishes such as anodised aluminium and antique brass, our powerful WL220 wall lights also sport an attractive single point source LED, maximising the look and feel of the luminaires without compromising on performance. Alongside our ultra-premium solid brass finish, we've updated our range to include stainless steel 316 and anodised bronze, giving you even more choice when designing your installation.



## FRAMING VS FEATURE LIGHTING

With several styles and finishes available, we have the solution that creates the perfect lighting effect for your installation. Types of light effects to consider are:

### Wall grazing



### Directional



### Decorative





### WL012

This fitting provides a broad spread of light from the diffused window design. This makes it suitable for general illumination for entrance areas.

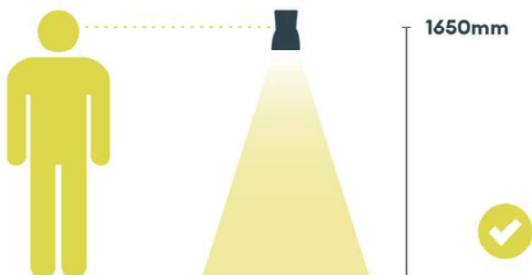


## MADE TO ORDER

		WL220
Finish / Material	Antique Brass	●
	Black	●
	Bronze	●
	Stainless Steel	●
Beam Angle	Spot	●
	Flood	●
Lit Effect	Clear Glass	●
	Frosted Glass	●
	Honeycomb Low-Glare	●
	Half Moon Glass	●
CCT	2200K	●
	2700K	●
	3000K	●
	4000K	●
Low Voltage Option		✗

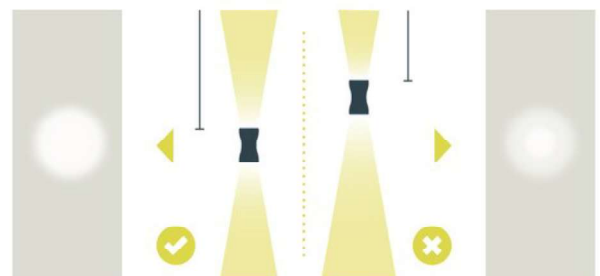
## HEIGHT OF WALL LIGHTS

A general rule of choosing the correct height and position for wall lights is 1650mm from floor or ground level (eye level to a person of 5ft 8in height.)



## LIGHT POSITIONING

To avoid hot spots when using up/down lights to frame doors and windows, ensure that they are not positioned too closely to the ceiling or other horizontal surfaces.



## WALL LIGHT

5.1W

5.1W



Coastal protected

IP65

IP65 ideal for outdoor environments

### GUARANTEE

7 years

### BENEFITS

Single LED and lens combination for maximum efficiency and optimal light distribution.

Ideal for framing entrances and illuminating columns with its bi-directional lights

Anodised Aluminium is sleek and durable

Long lifetime of 70,000hrs

Mains voltage wall light



## WL070

Straight to mains, high output LED wall light

### FEATURES

<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	Fixed
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3
<b>Emergency Option</b>	None

### INSTALLATION INFORMATION

<b>Bathroom Zone</b>	2
<b>Inrush Current</b>	60A 0.037ms
<b>Construction Material</b>	Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	40°C
<b>SELV</b>	Yes
<b>Mounting Options</b>	Wall
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

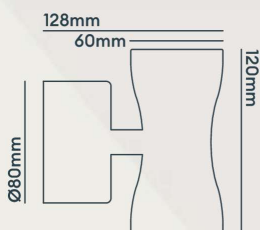
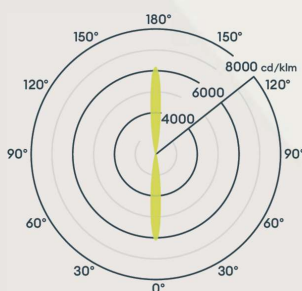
### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL070BNBM27	Black	5.1W	2700K	12	510 / 255	100	
WL070BNBM30	Black	5.1W	3000K	12	550 / 275	108	
WL070SNBM27	Silver	5.1W	2700K	12	510 / 255	100	
WL070SNBM30	Silver	5.1W	3000K	12	550 / 275	108	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
--------------------------------	----------

BEAM (°): 12





## WL075

Straight to mains, high output LED wall light

FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Bathroom Zone</b>	2
<b>Colour Flexibility</b>	Single CCT	<b>Inrush Current</b>	60A 0.037ms
<b>Tilt Angle (°)</b>	Fixed	<b>Construction Material</b>	Anodised Aluminium
<b>Sensor</b>	None	<b>Suitable For Coastal Areas</b>	Yes
<b>Dimmable</b>	None	<b>Ambient Temperature</b>	40°C
<b>Input</b>	220-240V AC	<b>SELV</b>	Yes
<b>LED Life</b>	L70 70,000h	<b>Mounting Options</b>	Wall
<b>CRI</b>	CR1>80	<b>Electric Class</b>	I
<b>SDCM</b>	SDCM3	<b>Earth Leakage</b>	0.1mA
<b>Emergency Option</b>	None		

PHOTOMETRICS @ 25°C							
Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL075BNBM27	Black	5.7W	2700K	110	515	90	
WL075BNBM30	Black	5.7W	3000K	110	520	91	
WL075SNBM27	Silver	5.7W	2700K	110	515	90	
WL075SNBM30	Silver	5.7W	3000K	110	520	91	
WL075ZNBM27	Bronze	5.7W	2700K	110	515	90	
WL075ZNBM30	Bronze	5.7W	3000K	110	520	91	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel

**5.7W**

5.7W



Coastal protected

**IP65**

IP65 ideal for outdoor environments

### GUARANTEE

7 years

### BENEFITS

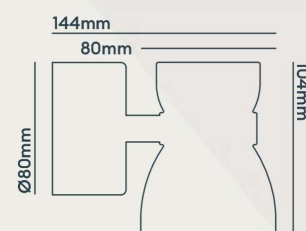
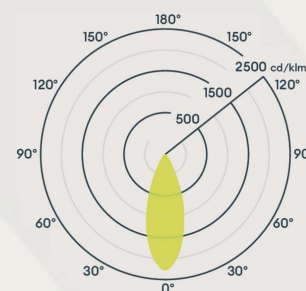
Single LED and lens combination for maximum efficiency and optimal light distribution.

Straight to mains wall light, perfect for framing entrances and illuminating columns

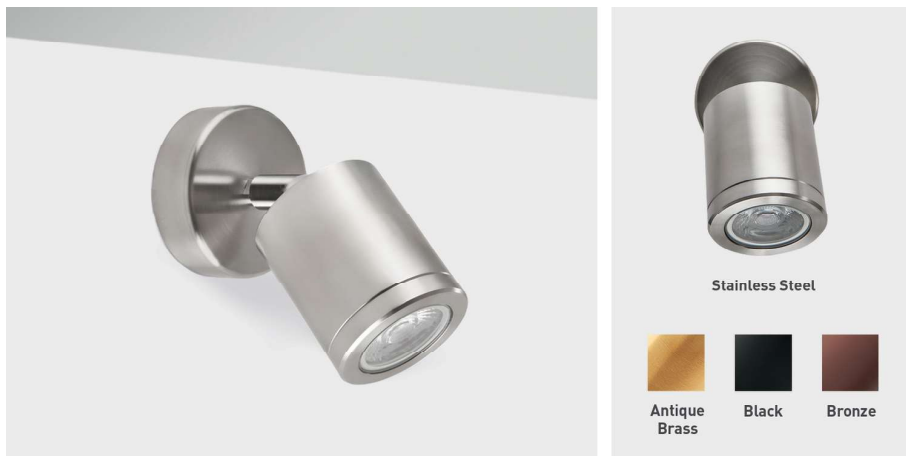
Anodised Aluminium is sleek and durable

Long lifetime of 70,000hrs

BEAM (°): 110








**5.7W** 5.7W

 Coastal protected

 Adjustable LED fitting  
330°

**GUARANTEE**  
7 years









**BENEFITS**

- Straight to mains
- IP65 ideal for outdoor environments
- Improved look and feel with single LED
- Adjustable head allows for quick changes in direction light to suit any installation.
- Available in an array of colours Antique Brass, Black, Bronze, Copper, and Stainless Steel

## WL220

Straight to mains LED wall light

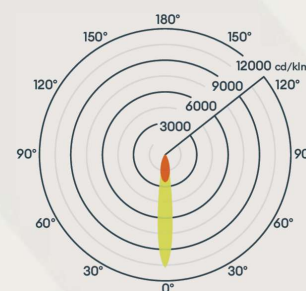
FEATURES		INSTALLATION INFORMATION	
<b>IP Rating</b>	IP65	<b>Bathroom Zone</b>	2
<b>Colour Flexibility</b>	Single CCT	<b>Inrush Current</b>	0.07ms 5.2A
<b>Tilt Angle (°)</b>	90	<b>Construction Material</b>	Stainless Steel
<b>Rotation Angle (°)</b>	330	<b>Suitable For Coastal Areas</b>	Yes
<b>Sensor</b>	None	<b>Ambient Temperature</b>	35°C
<b>Dimmable</b>	None	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Electric Class</b>	I
<b>LED Life</b>	L70 70,000h	<b>Earth Leakage</b>	0.1mA
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		
<b>Emergency Option</b>	None		

PHOTOMETRICS @ 25°C						
Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
WL220SS22MF	5.7W	2200K	40	431	76	
WL220SS22MS	5.7W	2200K	12	431	76	
WL220SS27MF	5.7W	2700K	40	515	90	
WL220SS27MS	5.7W	2700K	12	515	90	
WL220SS30MF	5.7W	3000K	40	520	91	
WL220SS30MS	5.7W	3000K	12	520	91	
WL220SS40MF	5.7W	4000K	40	538	94	
WL220SS40MS	5.7W	4000K	12	538	94	

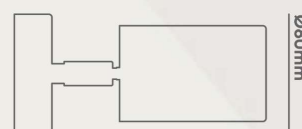
In the part code to replace your colour, change SS to AB (Antique Brass) or BK (Black). Important: AB finish is made to order. Energy rating is a reflection of the LED light source.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel

BEAM (°): 12, 40



145mm



## WALL LIGHT

**2,6W** 2.6W



Coastal protected

**IP65**

IP65 ideal for outdoor environments

### GUARANTEE

7 years

### BENEFITS

Bi-directional wall light offering decorative halo effect and functional downward flood light

Complete with wall fixings and waterproof crimp connectors

Mains voltage wall light



## WL060

WL060

### FEATURES

<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	Fixed
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 70,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3
<b>Emergency Option</b>	None

### INSTALLATION INFORMATION

<b>Bathroom Zone</b>	2
<b>Inrush Current</b>	9A 0.8ms
<b>Construction Material</b>	Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	40°C
<b>SELV</b>	Yes
<b>Mounting Options</b>	Wall
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

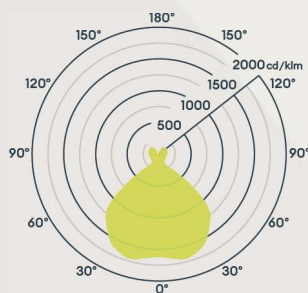
### PHOTOMETRICS @ 25°C

Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL060 NW	Silver	2.6W	4000K	120	82	32	A++
WL060 WW	Silver	2.6W	3000K	120	58	22	A++
WL160 27	Black	2.6W	2700K	120	56	22	A++
WL160 NW	Black	2.6W	4000K	120	82	32	A++
WL160 WW	Black	2.6W	3000K	120	58	22	A++

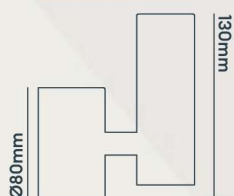
### WIRING INFORMATION

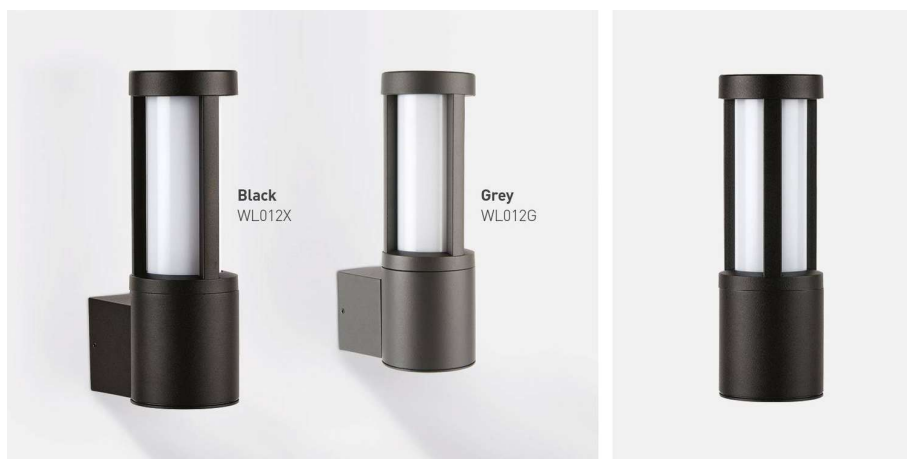
<b>Type Of Wiring Required</b>	Parallel
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BEAM (°): 120



115mm





# WL012

IP54, 610lm straight to mains wall light

FEATURES	
Impact Strength	IK04
IP Rating	IP54
Colour Flexibility	Single CCT
Tilt Angle (°)	Fixed
Sensor	None
Dimmable	None
Input	220-240V AC
LED Life	L70 30,000h
CRI	CRI>80
SDCM	SDCM5
Emergency Option	None

INSTALLATION INFORMATION	
Inrush Current	20A 0.5ms
Construction Material	Aluminium
Suitable For Coastal Areas	No
Ambient Temperature	40°C
SELV	Yes
Electric Class	I
Earth Leakage	0.1mA

PHOTOMETRICS @ 25°C							
Product Code	Finish	W	Colour	Beam (°)	lm	Lm/W	Energy
WL012G30	Grey	11.0W	3000K	338	610	55	
WL012X30	Black	11.0W	3000K	338	610	55	

WIRING INFORMATION	
Type Of Wiring Required	Parallel

**11W**

11W



Integral bracket for easy installation

**IP54**

IP54 ideal for framing doorways and entrances

### GUARANTEE

5 years

### BENEFITS

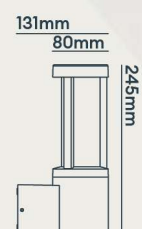
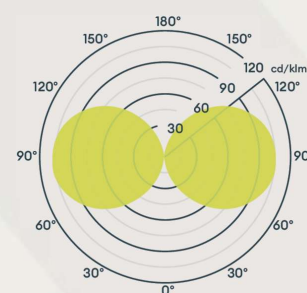
Straight to mains screw terminals

Durable powder coated aluminium in contemporary black or grey finish

Provides a good light level for safe navigation at night

Wide light distribution with 360° beam angle

BEAM (°): **338**



# RESIDENTIAL FLOODLIGHT



# RESIDENTIAL FLOODLIGHTS

## Functional And Security Lighting

### IP65 DIRECTIONAL PIR SENSOR

#### PIR sensor: Passive infrared sensor

The IP65 rating provides optimum protection against the impacts of rainwater and general adverse weather conditions. The PIR sensor can rotate, meaning that the activation can occur in a different area to where the floodlight illuminates. For example, the sensor could be pointed to a door so that when a person exits the building a separate walkway is illuminated, increasing safety.

#### Advantages

- IP65 rated sensor ideal for adverse weather conditions.
- Sensor rotates allowing the activation to occur in a different area to the illumination.
- Easily adjust motion sensitivity, lux levels and time required on the sensor.
- Save your customer energy and money.



### COASTAL PROTECTION

#### Rust & salt mist protection

With corrosion resistant protection and coastal protective paint, our floodlights are perfect for use in coastal areas.

#### Advantages

- Feel confident you can install these floodlights anywhere.
- Can be installed into coastal areas without any worry of products failing.



### QUICK & EASY INSTALLATION

#### Circular first fix bracket

The circular bracket is detachable and can be mounted to the surface before the rest of the product, allowing for a remarkably easy installation. The product is then simply bolted on to the bracket and the installation completed.

#### Advantages

- Quick & easy installation.
- This bracket is for first fixing onto the wall, and because it's circular, there is no need for spirit level.
- 360° rotation, allowing the floodlight to be installed in a variety of applications.
- Pre-wired with 1m cable.



### 360° ROTATABLE & 180° TILTABLE

#### Flexibility and reliability

Combining 360° rotation and 180° tilt, this light can be pointed in any direction, ensuring you can illuminate a space from any position.

#### 360° rotation

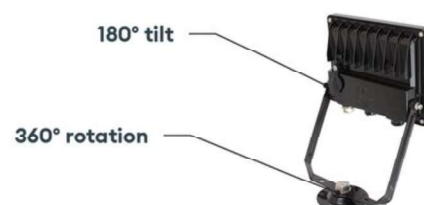
The product has a circular bracket at the end which allows it to be rotated in any direction. Once installed onto a wall, the light can be pointed in any direction with ease.

#### 180° tiltable

The bracket directly attached to the floodlight allows the product to tilt both upwards and downwards.

#### Advantages

- Illuminate space from any direction.
- Can adjust into correct area after it's installed.



## CCT SWITCHABLE

### One light, three colour temperatures

Our range of colour switchable floodlights allows you to stock 3 colour temperatures in 1 product (3000K, 4000K & 6500K).

#### Advantages

- Simpler product range.
- Products can be easily adjusted after they are installed thanks to a convenient IP65 switch on the back.
- Always have the correct product on hand.

#### 3000K



#### 4000K

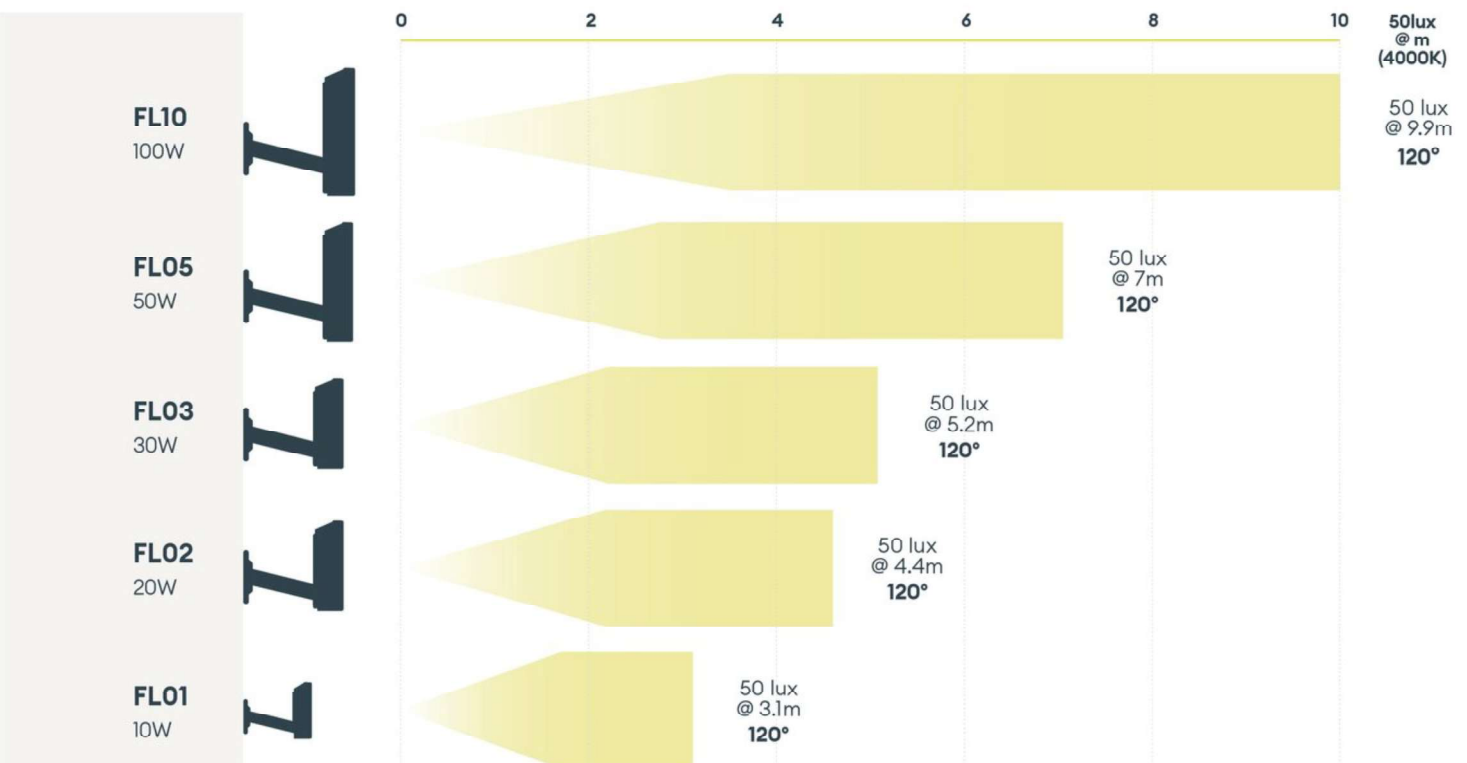


#### 6500K



## PRODUCT COMPARISON

Using the diagram below, determine which size product and output is suitable for your installation.



## RESIDENTIAL FLOODLIGHT

130lm/W

High efficacy of up to 130lm/W



First fix bracket for quick & easy installation



Ideal for coastal areas

### GUARANTEE

5 years

### BENEFITS

Colour switchable between 3 colour temperatures

IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions

A unique 360° rotation for total flexibility, and a 180° tilt

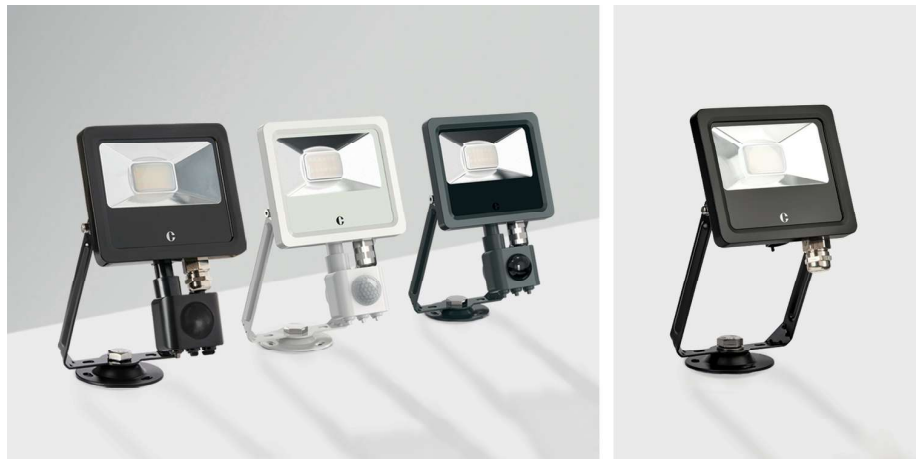
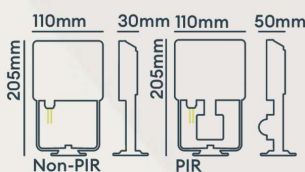
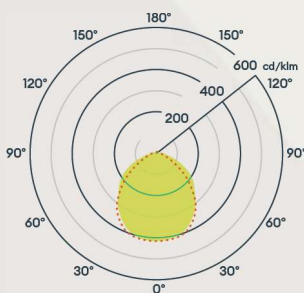
Supplied with 1m cable

Wide 120° beam angle, reducing the number of fittings per area required

Performs in even more extreme conditions from -40°C to +40°C

IP65 PIR option provides override function to leave permanently on or off

BEAM (°): 120



## FL01

10W colour switchable floodlight

### FEATURES

<b>Impact Strength</b>	IK07
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Switchable CCT
<b>Tilt Angle (°)</b>	180
<b>Rotation Angle (°)</b>	360
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 50,000h
<b>CRI</b>	CR>80
<b>SDCM</b>	SDCM5

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Inrush Current</b>	10A 262µs
<b>Construction Material</b>	Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	-40-40°C
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
FL01APCS	Anthracite	PIR sensor	10W	3000K	120	1100	110	
				4000K		1150	115	
				6500K		1300	130	
FL01AXCS	Anthracite	Standard	10W	3000K	120	1100	110	
				4000K		1150	115	
				6500K		1300	130	
FL01BPCS	Black	PIR sensor	10W	3000K	120	1100	110	
				4000K		1150	115	
				6500K		1300	130	
FL01BXCS	Black	Standard	10W	3000K	120	1100	110	
				4000K		1150	115	
				6500K		1300	130	
FL01WPCS	White	PIR sensor	10W	3000K	120	1100	110	
				4000K		1150	115	
				6500K		1300	130	
FL01WXCS	White	Standard	10W	3000K	120	1100	110	
				4000K		1150	115	
				6500K		1300	130	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F rubberised cable
<b>Conductor Cross Section</b>	1mm <sup>2</sup>



# FL02

20W colour switchable floodlight

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK07	<b>Install Connector Type</b>	Flying lead
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	11A 474µs
<b>Colour Flexibility</b>	Switchable CCT	<b>Construction Material</b>	Aluminium
<b>Tilt Angle (°)</b>	180	<b>Suitable For Coastal Areas</b>	Yes
<b>Rotation Angle (°)</b>	360	<b>Ambient Temperature</b>	-40-40°C
<b>Dimmable</b>	None	<b>Electric Class</b>	I
<b>Input</b>	220-240V AC	<b>Earth Leakage</b>	0.1mA
<b>LED Life</b>	L70 50,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM5		

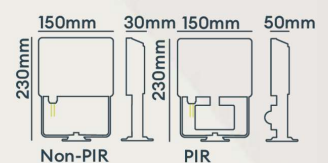
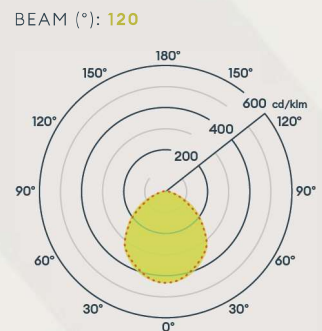
PHOTOMETRICS @ 25°C								
Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
FL02APCS	Anthracite	PIR sensor	20W	3000K	120	2200	110	
				4000K		2400	120	
				6500K		2400	120	
FL02AXCS	Anthracite	Standard	20W	3000K	120	2200	110	
				4000K		2400	120	
				6500K		2400	120	
FL02BPCS	Black	PIR sensor	20W	3000K	120	2200	110	
				4000K		2400	120	
				6500K		2400	120	
FL02BXCS	Black	Standard	20W	3000K	120	2200	110	
				4000K		2400	120	
				6500K		2400	120	
FL02WPCS	White	PIR sensor	20W	3000K	120	2200	110	
				4000K		2400	120	
				6500K		2400	120	
FL02WXCS	White	Standard	20W	3000K	120	2200	110	
				4000K		2400	120	
				6500K		2400	120	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F rubberised cable
<b>Conductor Cross Section</b>	1mm <sup>2</sup>

- High efficacy of up to 120lm/W
- First fix bracket for quick & easy installation
- Ideal for coastal areas

**GUARANTEE**  
5 years

- BENEFITS**
- Colour switchable between 3 colour temperatures
  - IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions
  - A unique 360° rotation for total flexibility, and a 180° tilt
  - Supplied with 1m cable
  - Wide 120° beam angle, reducing the number of fittings per area required
  - Performs in even more extreme conditions from -40°C to +40°C
  - IP65 PIR option provides override function to leave permanently on or off



## RESIDENTIAL FLOODLIGHT

130lm/W

High efficacy of up to 130lm/W



First fix bracket for quick & easy installation



Ideal for coastal areas

### GUARANTEE

5 years

### BENEFITS

Colour switchable between 3 colour temperatures

IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions

A unique 360° rotation for total flexibility, and a 180° tilt

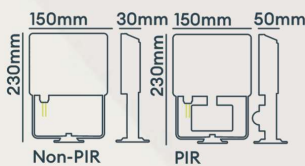
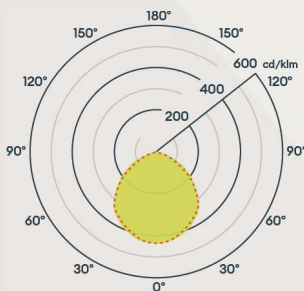
Supplied with 1m cable

Wide 120° beam angle, reducing the number of fittings per area required

Performs in even more extreme conditions from -40°C to +40°C

IP65 PIR option provides override function to leave permanently on or off

BEAM (°): 120



## FL03

30W colour switchable floodlight

### FEATURES

<b>Impact Strength</b>	IK07
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Switchable CCT
<b>Tilt Angle (°)</b>	180
<b>Rotation Angle (°)</b>	360
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 50,000h
<b>CRI</b>	CR>80
<b>SDCM</b>	SDCM5

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Inrush Current</b>	30A 4µs
<b>Construction Material</b>	Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	-40-40°C
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
FL03APCS	Anthracite	PIR sensor	30W	3000K	120	3000	100	A++ E
				4000K		3300	110	
				6500K		3900	130	
FL03AXCS	Anthracite	Standard	30W	3000K	120	3000	100	A++ E
				4000K		3300	110	
				6500K		3900	130	
FL03BPCS	Black	PIR sensor	30W	3000K	120	3000	100	A++ E
				4000K		3300	110	
				6500K		3900	130	
FL03BXCS	Black	Standard	30W	3000K	120	3000	100	A++ E
				4000K		3300	110	
				6500K		3900	130	
FL03WPCS	White	PIR sensor	30W	3000K	120	3000	100	A++ E
				4000K		3300	110	
				6500K		3900	130	
FL03WXCS	White	Standard	30W	3000K	120	3000	100	A++ E
				4000K		3300	110	
				6500K		3900	130	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F rubberised cable
<b>Conductor Cross Section</b>	1mm <sup>2</sup>



# FL05

50W colour switchable floodlight

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK07	<b>Install Connector Type</b>	Flying lead
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	28A 13µs
<b>Colour Flexibility</b>	Switchable CCT	<b>Construction Material</b>	Aluminium
<b>Tilt Angle (°)</b>	180	<b>Suitable For Coastal Areas</b>	Yes
<b>Rotation Angle (°)</b>	360	<b>Ambient Temperature</b>	-40-40°C
<b>Dimmable</b>	None	<b>Electric Class</b>	I
<b>Input</b>	220-240V AC	<b>Earth Leakage</b>	0.1mA
<b>LED Life</b>	70 50,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM4		

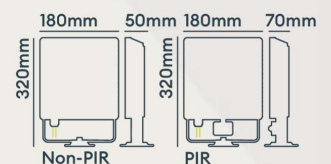
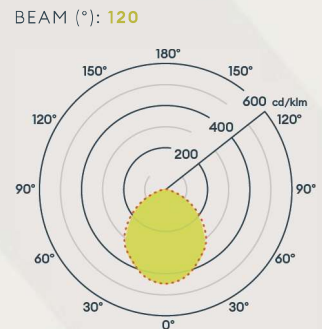
PHOTOMETRICS @ 25°C								
Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
FL05APCS	Anthracite	PIR sensor	50W	3000K	120	5000	100	
				4000K		5600	112	
				6500K		5100	102	
FL05AXCS	Anthracite	Standard	50W	3000K	120	5000	100	
				4000K		5600	112	
				6500K		5100	102	
FL05BPCS	Black	PIR sensor	50W	3000K	120	5000	100	
				4000K		5600	112	
				6500K		5100	102	
FL05BXCS	Black	Standard	50W	3000K	120	5000	100	
				4000K		5600	112	
				6500K		5100	102	
FL05WPCS	White	PIR sensor	50W	3000K	120	5000	100	
				4000K		5600	112	
				6500K		5100	102	
FL05WXCS	White	Standard	50W	3000K	120	5000	100	
				4000K		5600	112	
				6500K		5100	102	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F rubberised cable
<b>Conductor Cross Section</b>	1mm <sup>2</sup>

- High efficacy of up to 112lm/W
- First fix bracket for quick & easy installation
- Ideal for coastal areas

**GUARANTEE**  
5 years

- BENEFITS**
- Colour switchable between 3 colour temperatures
  - IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions
  - A unique 360° rotation for total flexibility, and a 180° tilt
  - Supplied with 1m cable
  - Wide 120° beam angle, reducing the number of fittings per area required
  - Performs in even more extreme conditions from -40°C to +40°C
  - IP65 PIR option provides override function to leave permanently on or off



## RESIDENTIAL FLOODLIGHT

118lm/W

High efficacy of up to 118lm/W



First fix bracket for quick & easy installation



Ideal for coastal areas

### GUARANTEE

5 years

### BENEFITS

Colour switchable between 3 colour temperatures

IP65 rated, meaning it provides optimum protection against the impacts of rainwater and general adverse weather conditions

A unique 360° rotation for total flexibility, and a 180° tilt

Supplied with 1m cable

Wide 120° beam angle, reducing the number of fittings per area required

Performs in even more extreme conditions from -40°C to +40°C



## FL10

100W colour switchable floodlight

### FEATURES

<b>Impact Strength</b>	IK07
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Switchable CCT
<b>Tilt Angle (°)</b>	180
<b>Rotation Angle (°)</b>	360
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 50,000h
<b>CRI</b>	CRi>80
<b>SDCM</b>	SDCM4

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Inrush Current</b>	75A 5µs
<b>Construction Material</b>	Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	-40-40°C
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.3mA

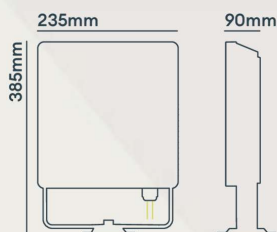
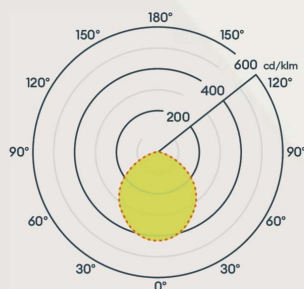
### PHOTOMETRICS @ 25°C

Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	Energy
FL10BXCS	Black	Standard	100W	3000K	120	10250	103	
				4000K		11810	118	
				6500K		10970	110	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F rubberised cable
<b>Conductor Cross Section</b>	1mm <sup>2</sup>

BEAM (°): 120





# BOLLARD





# BESPOKE WOODEN BOLLARDS

Purpose Built In Great Britain, For Your Installation



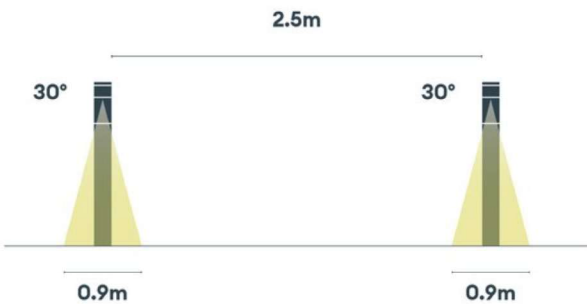
## SINGLE LED BOLLARD

Use the single LED bollard to add new lighting to existing pathways, gardens or shared spaces. The remote SELV power supply provides increased flexibility when fitting. Long distances of cable can be concealed within trunking.

Bollards are often purposely positioned in a uniformed capacity to highlight a walkway; however, they can also be integrated into a landscape feature, maximising the overall design of the space.



For a pathway with consistent points highlighted:

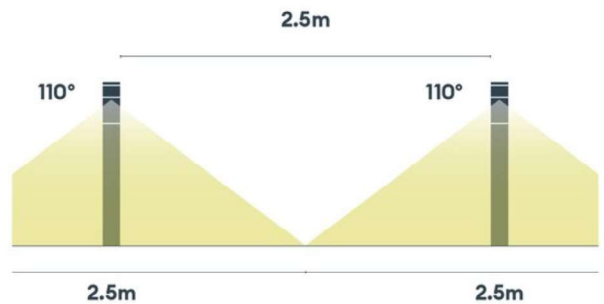


## TRIPLE LED BOLLARD

Using an integral power supply, this direct to mains bollard is ideal for replacing existing bollard lighting, which may be looking tired or in need of replacement. It is easy to retrofit using existing cables or as part of a new build, where cables can easily be installed with minimum impact. Using three LEDs instead of one and with a wider beam angle, these products are capable of being positioned at greater distances whilst still creating an even spread of light.



For a pathway consistently lit at 30 lux:



## CHOICE OF MATERIAL

Choose from three beautifully crafted woods to obtain the ideal aesthetic for your bollard.



## CHOICE OF STYLE

Choose from three unique styles to suit your installation.



## COLOUR TEMPERATURE

Choose between three available colour temperatures.

2700K



3000K



4000K



## SINGLE LIGHTING REGULATIONS

We are making the wooden bollards more serviceable. The change is a simple one with beneficial impact: there will be a removable back plate so that the control gear and light modules can be accessed and replaced if necessary. On bottom cable entry, the panel goes all the way to the floor, with three brass countersunk screws holding it in place, and the side entry models has the removable plate up to the cable entry.

## CHOOSING THE IDEAL WOODEN BOLLARD

Use the five easy steps below to ascertain the perfect bollard for your installation.

<p><b>Do you need a bollard with single or triple LEDs?</b></p>	<p><b>Single LED Bollard</b></p> 	<p><b>Single LED Bollard</b></p> 	
<p><b>Which style head would you like?</b></p>	<p><b>Domed</b></p> 	<p><b>Chamfered</b></p> 	<p><b>Pointed</b></p> 
<p><b>Which type of wood do you prefer?</b></p>	<p><b>Iroko</b></p> 	<p><b>Oak</b></p> 	<p><b>Sapele</b></p> 
<p><b>Will the bollard be recessed or surface mounted?</b></p>	<p><b>Recessed Mount</b></p> <p>Side cable entry is required for recess mounting.</p> 	<p><b>Surface Mount</b></p> <p>Base cable entry is required for surface mounting.</p> 	<p>When surface mounting you will also need a bracket.</p> <p>Product code: <b>BOL LED BRACKET</b></p> 
<p><b>Which colour temperature do you need?</b></p>	<p><b>2700K</b></p> 	<p><b>3000K</b></p> 	<p><b>4000K</b></p> 

Now you've determined what you'll need, use the product code generator on the next page to obtain the correct product code.

# BESPOKE WOODEN BOLLARDS



Purpose Built In Great Britain, For Your Installation

USE THE GENERATOR BELOW TO BUILD YOUR WOODEN BOLLARDS PRODUCT CODE BASED ON THE ATTRIBUTES YOU HAVE SELECTED

The example shown is for a single LED with base cable entry, 2700K, iroko wood, domed head bollard, resulting in the partcode BL01DIB27. You can change each element to represent the bollard you need.

1	2	3	4	5	6
<b>B L</b>	<b>0 1</b>	<b>D</b>	<b>I</b>	<b>B</b>	<b>2 7</b>
	0 3	F	O	S	3 0
		P	S		4 0

1 Product type	2 Single / Triple LED	3 Style
<b>BL</b> Bollard	<b>01</b> Single LED <b>03</b> Triple LED	<b>D</b> Domed <b>F</b> Chamfered <b>P</b> Pointed
4 Material	5 Cable entry	6 Colour temperature
<b>I</b> Iroko wood <b>O</b> Oak wood <b>S</b> Sapele wood	<b>B</b> Base entry <b>S</b> Side entry	<b>27</b> 2700K <b>30</b> 3000K <b>40</b> 4000K

# COMMERCIAL OUTDOOR

## Choosing the ideal Hydra bollard

### 1 BOLLARD HEADS



Standard - **HYBICONEB**  
Photocell - **HYBICONEBPC**



Standard - **HYBICONES**  
Photocell - **HYBICONESPC**



Standard - **HYBIOPALW**  
Photocell - **HYBIOPALWPC**

### 2 BOLLARD POST & GROUND KIT



**HYXBOLLARD\***  
Including post, base and  
ground fixing kit

### 3 GROUND FIXING OPTIONS



**HYXBOLTKIT**  
Concrete



**HYXROOTKIT**  
Soft ground

### 4 180° SPILL LIGHT KIT



**HYBXSPILLKIT**  
Transforms your 360° light  
into a 180° light output

\* This is required for your bollard installation, unless you are fitting the head to an existing post of the same diameter.

### CCT & Wattage switchable: one light, two CCT temperatures and three wattage outputs

Hydra colour and wattage switchable bollard allows you to stock 2 colour temperatures (2200K & 3000K) and 3 wattage outputs (14W, 19W & 24W) in 1 product.

#### 2200K



#### 3000K



#### 14W



#### 19W



#### 24W



## BOLLARD

**1W** 1W at 350mA or 700mA

 Coastal Protected

**IP65** IP65 ideal for outdoor areas

### GUARANTEE

7 years

### BENEFITS

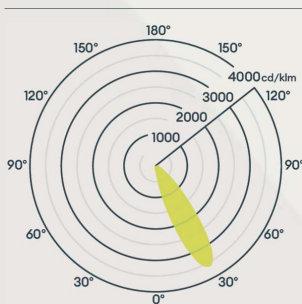
Choice of wood finishes: Iroko, Sapele or Oak

Pointed, Chamfered or Domed top

Choice of low-voltage or straight-to-mains

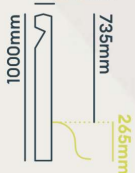
Side-entry cable or base-entry cable options

Three colour temperature options: 2700K, 3000K or 4000K



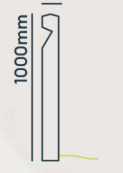
Recessed mount

95x95mm



Surface mount

95x95mm



## BL01

Low voltage wood

### FEATURES

<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	350mA / 700mA DC
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Bathroom Zone</b>	1
<b>Construction Material</b>	Iroko Wood
<b>Suitable For Coastal Areas</b>	Yes (with appropriate treatment)
<b>Ambient Temperature</b>	35°C
<b>Electric Class</b>	III
<b>Constant Current</b>	Yes

### PHOTOMETRICS @ 25°C

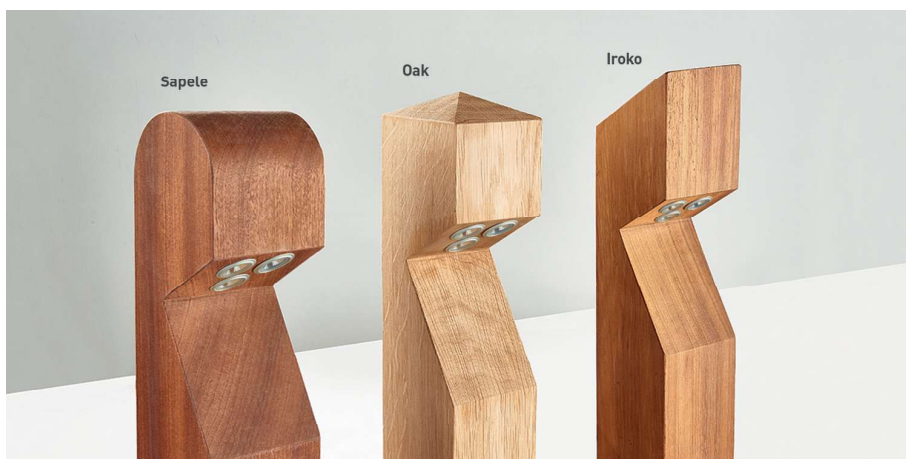
View code matrix on Page 104

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Series
<b>Power Cable</b>	H05RN-F (dia 6mm)

### ACCESSORIES

<b>JB2</b>	Waterproof junction box	<b>150</b>
<b>JB4</b>	Gel filled waterproof junction box	<b>150</b>
<b>JB6</b>	Inline IP68 gel filled cable connector	<b>150</b>
<b>WCR 275 BLACK</b>	2-core rubber cable	<b>151</b>
<b>BOL LED BRACKET</b>	Stainless steel bracket for wooden bollard range	<b>108</b>



5W

5W at 350mA or 700mA



Coastal Protected

IP65

IP65 ideal for outdoor areas

**GUARANTEE**

7 years

**BENEFITS**

- Choice of wood finishes: Iroko, Sapele or Oak
- Pointed, Chamfered or Domed top
- Choice of low-voltage or straight-to-mains
- Side-entry cable or base-entry cable options
- Three colour temperature options: 2700K, 3000K or 4000K
- 7 year warranty

# BL03

Straight to mains

FEATURES	
Impact Strength	Other
IP Rating	IP65
Colour Flexibility	Single CCT
Sensor	None
Dimmable	None
Input	220-240V AC
CRI	CRI>80
SDCM	SDCM3

INSTALLATION INFORMATION	
Inrush Current	60A 0.037ms
Suitable For Coastal Areas	Yes (with appropriate treatment)
Ambient Temperature	35°C
SELV	Yes
Electric Class	II
Earth Leakage	0.1mA

**PHOTOMETRICS @ 25°C**

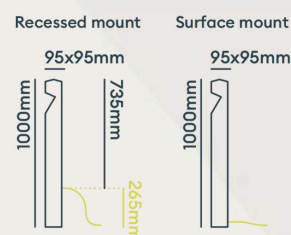
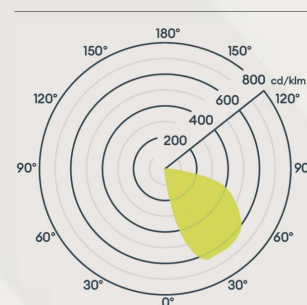
View code matrix on Page 104

**WIRING INFORMATION**

Type Of Wiring Required	Parallel
Power Cable	SY 2 Core PVC Steel Braid Cable

**ACCESSORIES**

<b>BOL LED BRACKET</b>	Stainless steel bracket for wooden bollard range	<b>150</b>
<b>JB5</b>	Gel filled waterproof junction box	<b>108</b>



# BOLLARD ACCESSORIES

## Get a mounting bracket

When mounting your bollard onto a solid surface get a mounting bracket.

### BOL LED BRACKET

Accessory on its own



Accessory on product



## PRODUCT CODES




Product Code	Description	Construction material	Guarantee
<b>BOL LED BRACKET</b>	Stainless steel bracket for wooden bollard range	Stainless steel (304)	1 year extended warranty

For full product specification visit [collingwoodlighting.com](http://collingwoodlighting.com)

## COMPATIBLE WITH

	B1.01	B1.03
<b>BOL LED BRACKET</b>	●	●



- 
 Switchable between 2700K, 3000K and 4000K
- 
 360° even light distribution
- 
 IP65 ideal for car parks and walk ways

**GUARANTEE**  
5 years

- BENEFITS**
- Choice of colours Black, Anthracite and Corten
  - Available in 300mm and 600mm sizes
  - Cable entry through base and expansion bolt installation kit included
  - IP68 inline connector included

# SLIM CSP BOLLARD

CCT Switchable IP65 Bollard

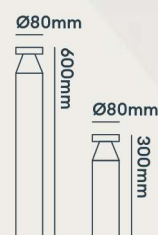
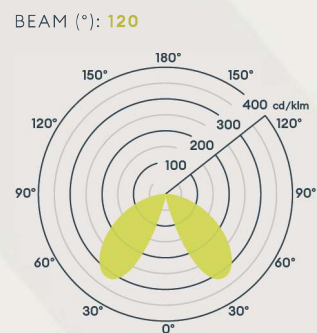
FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK08	<b>Inrush Current</b>	10A 0.4ms
<b>IP Rating</b>	IP65	<b>Construction Material</b>	Aluminium
<b>Colour Flexibility</b>	Switchable CCT	<b>Suitable For Coastal Areas</b>	Yes
<b>Sensor</b>	None	<b>Ambient Temperature</b>	-15-30°C
<b>Dimmable</b>	Mains (Leading Edge/ Trailing Edge)	<b>SELV</b>	No
<b>Input</b>	220-240V AC	<b>Building Regulations</b>	Part P & L
<b>LED Life</b>	L80 100,000h	<b>Electric Class</b>	I
<b>CRI</b>	CRI>80	<b>Earth Leakage</b>	0.032mA
<b>SDCM</b>	SDCM6		

PHOTOMETRICS @ 25°C

Product Code	Finish	Type	W	Colour	Beam (°)	Im	Lm/W	Energy
BLSAG3RDGS	Anthracite	300mm	14W	2700K	120	720	56	
				3000K		770	62	
				4000K		800	58	
BLSAG6RDGS	Anthracite	600mm	14W	2700K	120	720	56	
				3000K		770	62	
				4000K		800	58	
BLSBK3RDGS	Black	300mm	14W	2700K	120	630	50	
				3000K		660	53	
				4000K		680	50	
BLSBK6RDGS	Black	600mm	14W	2700K	120	630	50	
				3000K		660	53	
				4000K		680	50	
BLSCN3RDGS	Corten	300mm	14W	2700K	120	760	57	
				3000K		735	60	
				4000K		675	55	
BLSCN6RDGS	Corten	600mm	14W	2700K	120	760	57	
				3000K		735	60	
				4000K		675	55	

WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F 3G 1.0mm <sup>2</sup>
<b>Connectable Conductor Cross Section</b>	0.75-2.5mm <sup>2</sup>



## BOLLARD

**IK10** IK10 for a robust fitting

**CCT Switchable** between 2200K & 3000K

**Wattage Switchable** between 14W, 19W & 24W

### GUARANTEE

Warranty: 5 years  
Battery Warranty: 3 years

### BENEFITS

Interchangeable top head provides easy maintenance

Choice of cone or opal aesthetics & light distribution

CCT switch set to 3000K as default

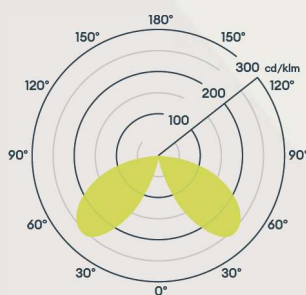
New 2200K to minimise effects of blue light

Must be sold with HYXBOLLARD

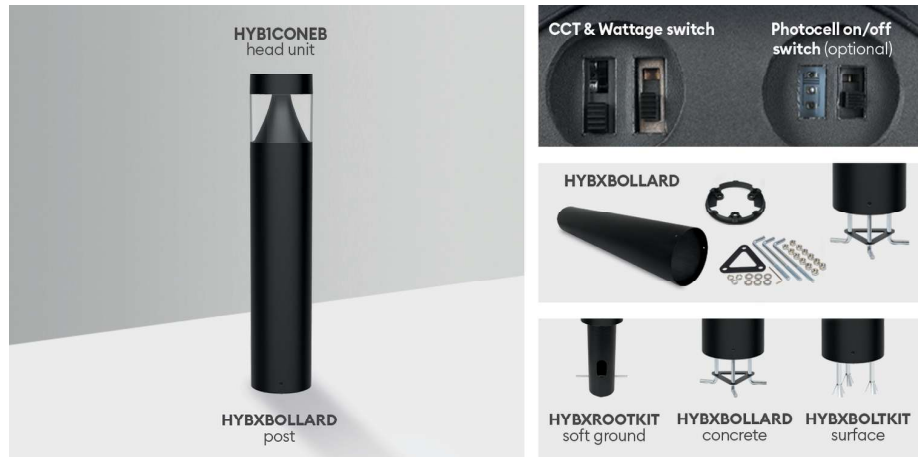
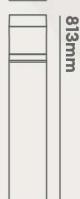
Switch live out function with photocell not possible

Photocell option available for dusk to dawn

BEAM (°): 360



Ø160mm



## HYDRA BOLLARD BLACK REFLECTOR

Interchangeable top head bollard

### FEATURES

<b>Impact Strength</b>	IK10
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Switchable CCT
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L80 50,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM6
<b>Emergency Option</b>	None

### INSTALLATION INFORMATION

<b>Bathroom Zone</b>	N/A
<b>Inrush Current</b>	30A 0.15ms
<b>Construction Material</b>	Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	-40-45°C
<b>SELV</b>	No
<b>Building Regulations</b>	N/A
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	EM	Energy
HYBICONEB	Black - Black	Standard	14W	2200K	360	1000	71	-	A
				3000K		1150	82	-	
			19W	2200K		1400	74	-	
				3000K		1500	79	-	
			24W	2200K		1700	71	-	
				3000K		1800	75	-	
HYBICONEBPC	Black - Black	Photocell	14W	2200K	360	1000	71	-	A
				3000K		1150	82	-	
			19W	2200K		1400	74	-	
				3000K		1500	79	-	
			24W	2200K		1700	71	-	
				3000K		1800	75	-	

Default Settings: 3000K colour temperature. Add EM to end of partcode for emergency version.

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Connectable Conductor Cross Section</b>	0.75-2.5mm <sup>2</sup>

### ACCESSORIES

<b>HYXBOLLARD</b>	Post with included route mount kit for soft ground	<b>113</b>
<b>HYXBOLTKIT</b>	Expansion bolt kit for Hydra Bollard	<b>113</b>
<b>HYBXROOTKIT</b>	Root mounting kit for Hydra Bollard	<b>113</b>



**IK10**

IK10 for a robust fitting

**CCT**

CCT Switchable between 2200K & 3000K

**W**

Wattage Switchable between 14W, 19W & 24W

**GUARANTEE**

Warranty: 5 years  
Battery Warranty: 3 years

**BENEFITS**

- Interchangeable top head provides easy maintenance
- Choice of cone or opal aesthetics & light distribution
- CCT switch set to 3000K as default
- New 2200K to minimise effects of blue light
- Must be sold with HYBxBOLLARD
- Switch live out function with photocell not possible
- Photocell option available for dusk to dawn

# HYDRA BOLLARD OPAL WHITE

Interchangeable top head bollard

FEATURES	
<b>Impact Strength</b>	IK10
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Switchable CCT
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L80 50,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM6
<b>Emergency Option</b>	None

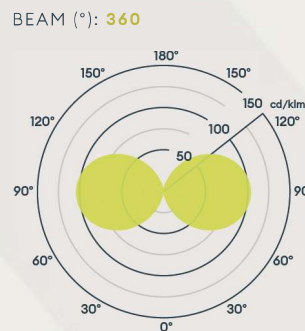
INSTALLATION INFORMATION	
<b>Bathroom Zone</b>	N/A
<b>Inrush Current</b>	30A 0.15ms
<b>Construction Material</b>	Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	-40-45°C
<b>SELV</b>	No
<b>Building Regulations</b>	N/A
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

PHOTOMETRICS @ 25°C									
Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	EM	Energy
HYBIOPALW	Black - White	Standard	14W	2200K	360	1050	75	-	A B D
				3000K		1200	86	-	
			19W	2200K	1450	76	-		
				3000K	1550	82	-		
			24W	2200K	1750	73	-		
				3000K	1900	79	-		
HYBIOPALWPC	Black - White	Photocell	14W	2200K	360	1050	75	-	
				3000K		1200	86	-	
			19W	2200K	1450	76	-		
				3000K	1550	82	-		
			24W	2200K	1750	73	-		
				3000K	1900	79	-		

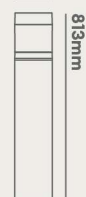
Default Settings: 3000K colour temperature. Add EM to end of partcode for emergency version.

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Connectable Conductor Cross Section</b>	0.75-2.5mm²

ACCESSORIES		
<b>HYBxBOLLARD</b>	Post with included route mount kit for soft ground	<b>113</b>
<b>HYBxBOLTKIT</b>	Expansion bolt kit for Hydra Bollard	<b>113</b>
<b>HYBXR00TKIT</b>	Root mounting kit for Hydra Bollard	<b>113</b>



Ø160mm



## BOLLARD

**IK10** IK10 for a robust fitting

**CCT Switchable** between 2200K & 3000K

**Wattage Switchable** between 14W, 19W & 24W

### GUARANTEE

Warranty: 5 years  
Battery Warranty: 3 years

### BENEFITS

Interchangeable top head provides easy maintenance

Choice of cone or opal aesthetics & light distribution

CCT switch set to 3000K as default

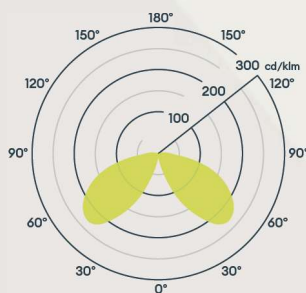
New 2200K to minimise effects of blue light

Must be sold with HYXBOLLARD

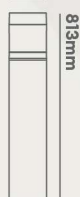
Switch live out function with photocell not possible

Photocell option available for dusk to dawn

BEAM (°): 360



Ø160mm



## HYDRA BOLLARD SILVER REFLECTOR

Interchangeable top head bollard

### FEATURES

<b>Impact Strength</b>	IK10
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Switchable CCT
<b>Sensor</b>	None
<b>Dimmable</b>	None
<b>Input</b>	220-240V AC
<b>LED Life</b>	L80 50,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM6
<b>Emergency Option</b>	None

### INSTALLATION INFORMATION

<b>Bathroom Zone</b>	N/A
<b>Inrush Current</b>	30A 0.15ms
<b>Construction Material</b>	Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	-40-45°C
<b>SELV</b>	No
<b>Building Regulations</b>	N/A
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

### PHOTOMETRICS @ 25°C

Product Code	Finish	Type	W	Colour	Beam (°)	lm	Lm/W	EM	Energy
HYBICONES	Black - Silver	Standard	14W	2200K	360	1300	93	-	A
				3000K		1500	107	-	
			19W	2200K		1800	95	-	
				3000K		1950	103	-	
			24W	2200K		2250	94	-	
				3000K		2400	100	-	
HYBICONESPC	Black - Silver	Photocell	14W	2200K	360	1300	93	-	A
				3000K		1500	107	-	
			19W	2200K		1800	95	-	
				3000K		1950	103	-	
			24W	2200K		2250	94	-	
				3000K		2400	100	-	

Default Settings: 3000K colour temperature. Add EM to end of partcode for emergency version.

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Connectable Conductor Cross Section</b>	0.75-2.5mm <sup>2</sup>

### ACCESSORIES

<b>HYXBOLLARD</b>	Post with included route mount kit for soft ground	<b>113</b>
<b>HYXBOLTKIT</b>	Expansion bolt kit for Hydra Bollard	<b>113</b>
<b>HYBXROOTKIT</b>	Root mounting kit for Hydra Bollard	<b>113</b>

# HYDRA ACCESSORIES

## Get a mounting bracket

When ordering your bollard head, you must order HYBxBOLLARD (post and ground kit)  
See other accessories below



## PRODUCT CODES

Product Code	Description	Guarantee
HYBxBOLLARD	Post with ground kit for Hydra Bollard	5 Years
HYBxBOLTKIT	Expansion bolt kit for Hydra Bollard	5 Years
HYBxROOTKIT	Root mounting kit for Hydra Bollard	5 Years
HYBxSPILLKIT	Spill light kit for Hydra Bollard	5 Years

For full product specification visit [collingwoodlighting.com](http://collingwoodlighting.com)

## COMPATIBLE WITH

Product Code	Hyrda Black HYBICONEB	Hyrda Black - Photocell HYBICONEBPC	Hyrda Silver HYBICONES	Hyrda Silver - Photocell HYBICONESPC	Hyrda Opal White HYBIOPALW	Hyrda Opal White - Photocell HYBIOPALWPC
HYBxBOLLARD	●	●	●	●	●	●
HYBxBOLTKIT	●	●	●	●	●	●
HYBxROOTKIT	●	●	●	●	●	●
HYBxSPILLKIT	●	●	●	●	●	●

# WALL WASH



# UPLIGHTS

To create exceptionally lit environments

## CHOOSING THE RIGHT BEAM ANGLE

Our uplighting range is ideal for creating an array of effects; whether you are adding grandeur to buildings, highlighting intricate architectural features or drawing guests to an entrance, we have a solution for many applications.

### 60° beam

This wide beam is perfect for creating a wash of light on flat surfaces or to illuminate surfaces from further away.

### 30° beam

Some architectural features require mid-level lighting and the 30° beam is perfect for this, allowing a swathe of light to be cast across a dedicated area.

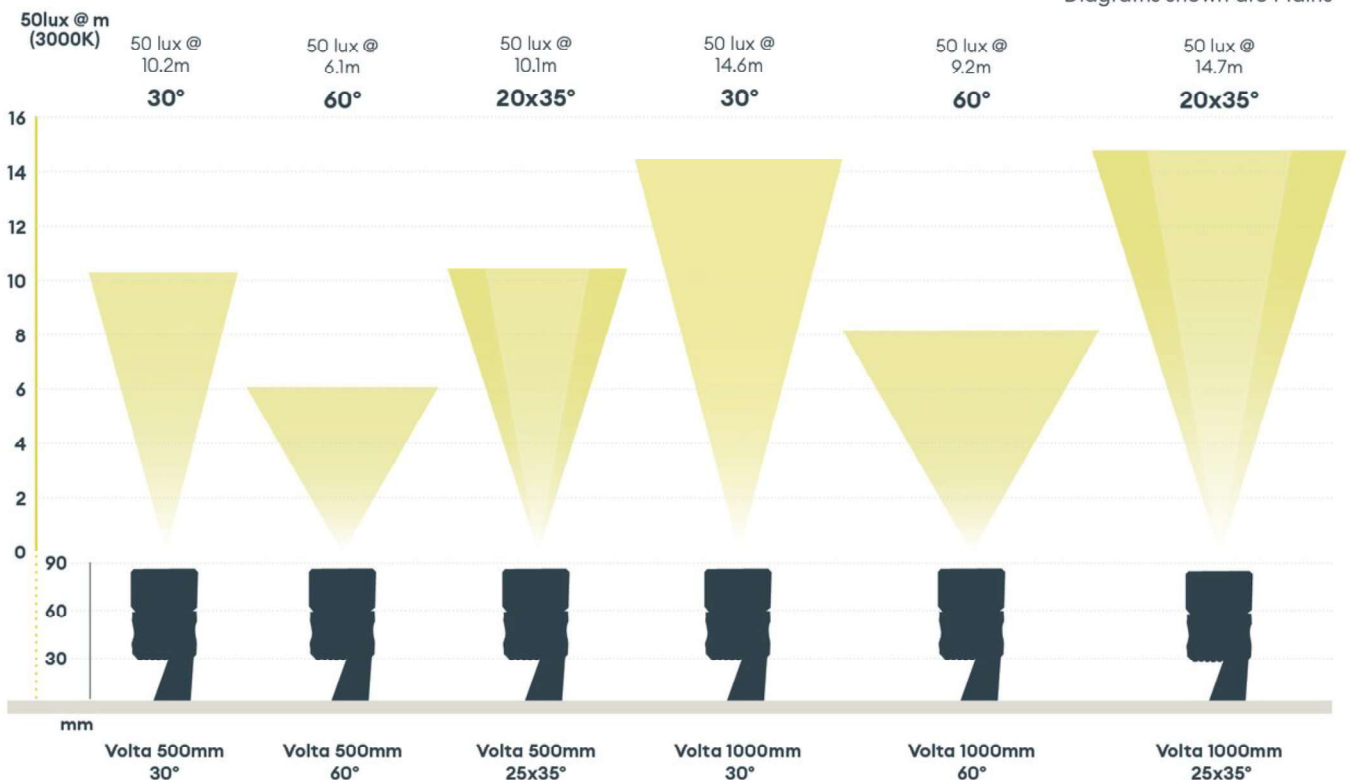
### 25x35° beam

Choose the asymmetric 25x35° beam for a more directed beam of light, perfect for walls and entrances.



## CHOOSING THE IDEAL SIZE AND OUTPUT

Diagrams shown are Mains



## QUICK AND EASY INSTALLATION

### Flexible installation

The maximum distance between products using fly leads is 330mm. If you require further space between products, Volta is supplied with two additional connectors, male and female to allow flexibility to increase distance between fittings at installation. Additional cables not supplied.



### Adjustable brackets

Fully flexible first-fix bracket. Slides at each end of the product and can be attached anywhere.



## IP65

### Built for the toughest of environments

High water and dust resistance. Durable and versatile, the Volta uplights are IP65 rated and are suitable for outdoors.



## 7 YEAR WARRANTY

Offering a seven-year warranty, so you can be assured of our commitment to quality.



## COASTAL PROTECTION

### Rust & salt mist protection

With corrosion resistant protection and coastal protective paint, our floodlights are perfect for use in coastal areas.

### Advantages

- Feel confident you can install these uplights anywhere.
- Can be installed into coastal areas without any worry of products failing.



## WALL WASH

**21W** 21W

**IP65** IP65 ideal for outdoor environments

 Suitable for use in coastal applications

### GUARANTEE

7 years

### BENEFITS

Plug and play through-wire install method

Supplied with waterproof connectors for fast install

3000K and 2700K range with choice of 2000 or 4200 lumen output

Narrow beam 30°, Wide beam 60° or Asymmetrical 20x35°

Also available in 1000mm









## VOLTA 500MM

Wall washing light bar

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	IK04	<b>Bathroom Zone</b>	1
<b>IP Rating</b>	IP65	<b>Inrush Current</b>	0.56A 18.8ms
<b>Colour Flexibility</b>	Single CCT	<b>Construction Material</b>	Anodised Aluminium
<b>Tilt Angle (°)</b>	180	<b>Suitable For Coastal Areas</b>	Yes
<b>Sensor</b>	None	<b>Ambient Temperature</b>	50°C
<b>Dimmable</b>	Mains (Leading Edge/Trailing Edge)	<b>SELV</b>	Yes
<b>Input</b>	220-240V AC	<b>Mounting Options</b>	Ceiling, Wall
<b>LED Life</b>	L70 50,000h	<b>Electric Class</b>	I
<b>CRI</b>	CRI>80	<b>Earth Leakage</b>	0.1mA
<b>SDCM</b>	SDCM3		

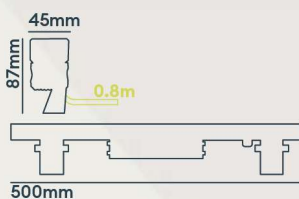
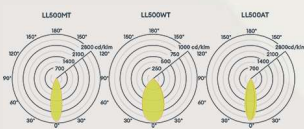
### PHOTOMETRICS @ 25°C

Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
LL500AT27	21W	2700K	20x35	2000	95	
LL500AT30	21W	3000K	20x35	2000	95	
LL500MT27	21W	2700K	30	2000	95	
LL500MT30	21W	3000K	30	2000	95	
LL500WT27	21W	2700K	60	2000	95	
LL500WT30	21W	3000K	60	2000	95	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

BEAM (°): 20X35, 30, 60





**40W** 40W

**IP65** IP65 ideal for outdoor environments

 Suitable for use in coastal applications

**GUARANTEE**  
7 years

**BENEFITS**

Plug and play through-wire install method

Supplied with waterproof connectors for fast install

3000K and 2700K range with choice of 2000 or 4200 lumen output

Narrow beam 30°, Wide beam 60° or Asymmetrical 20x35°







Also available in 500mm

# VOLTA 1000MM

Wall washing light bar

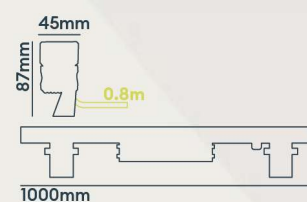
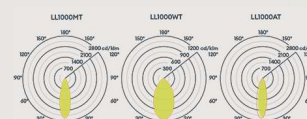
FEATURES	
<b>Impact Strength</b>	IK04
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Tilt Angle (°)</b>	180
<b>Sensor</b>	None
<b>Dimmable</b>	Mains (Leading Edge/Trailing Edge)
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 50,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

INSTALLATION INFORMATION	
<b>Bathroom Zone</b>	1
<b>Inrush Current</b>	15A ≤10µs
<b>Construction Material</b>	Anodised Aluminium
<b>Suitable For Coastal Areas</b>	Yes
<b>Ambient Temperature</b>	50°C
<b>SELV</b>	Yes
<b>Mounting Options</b>	Ceiling, Wall
<b>Electric Class</b>	I
<b>Earth Leakage</b>	0.1mA

PHOTOMETRICS @ 25°C						
Product Code	W	Colour	Beam (°)	lm	Lm/W	Energy
LLI000AT27	40W	2700K	20x35	4200	105	
LLI000AT30	40W	3000K	20x35	4200	105	
LLI000MT27	40W	2700K	30	4200	105	
LLI000MT30	40W	3000K	30	4200	105	
LLI000WT27	40W	2700K	60	4200	105	
LLI000WT30	40W	3000K	60	4200	105	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel
<b>Power Cable</b>	H05RN-F (dia 7mm)

BEAM (°): 20X35, 30, 60



# STRIP LIGHTS

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50051	122	Strip LED Flex 230V-48V-24V FL03	130
Strip LED 24V 70012	123	Strip LED Flex 230V-48V-24V FL04	131
70052	124	Strip LED Flex 230V-48V-24V FL05	132
70102	125	Strip LED Flex 230V-48V-24V	133
Strip LED 230V 70220	126	80310	134
Strip LED 230V 70230	127	80350	135
Strip LED Flex 230V-48V-24V FL01	128	MC67	136
Strip LED Flex 230V-48V-24V FL02	129		



STRIP LIGHTS

**10W** Ideal for primary lighting with 10W/m

**IP65** Ideal for wet environments with IP65 rating

 Quick and easy installation with self-adhesive backing

**GUARANTEE**  
3 years

**BENEFITS**  
High efficacy up to 167lm/W  
Ideal for Leisure Spaces & Gardens  
10mm width







## 50051

10W/m, IP65, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Flexible Tape	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	Other	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP65	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-40°C
<b>Self Adhesive Backing</b>	Yes	<b>Electric Class</b>	III
<b>Dimmable</b>	Optional	<b>Constant Voltage</b>	Yes
<b>Input</b>	24V DC		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C							
Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
50051/2700K	5m	10W/m	2700K	120	1260	126	
50051/C	5m	10W/m	3000K	120	1390	139	
50051/F	5m	10W/m	6000K	120	1674	167	
50051/N	5m	10W/m	4000K	120	1520	152	


WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel

ACCESSORIES	
<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted <b>0</b>





- 4.8W** Ideal for 4.8W/m accent lighting
- IP67** Ideal for Bathrooms, Decking, Patios & Landscaping with IP67 rating
-  Quick and easy installation with self-adhesive backing

**GUARANTEE**  
5 years

**BENEFITS**  
120 LEDs/m  
Cut intervals every 50mm  
10mm width

## 70012

4.8W/m, IP67, 24V current regulated, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Impact Strength</b>	Other	<b>Install Connector Type</b>	Flying lead
<b>IP Rating</b>	IP67	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>Bespoke Lengths</b>	Yes	<b>Maximum Running Length</b>	5m
<b>Self Adhesive Backing</b>	Yes	<b>Ambient Temperature</b>	-20-40°C
<b>Dimmable</b>	Optional	<b>Electric Class</b>	III
<b>Input</b>	24V DC	<b>Constant Voltage</b>	Yes
<b>LED Life</b>	L70 45,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
70012/2700K	5m	4.8W/m	2700K	120	534	111	
70012/C	5m	4.8W/m	3000K	120	562	117	
70012/F	5m	4.8W/m	6000K	120	629	131	
70012/N	5m	4.8W/m	4000K	120	629	131	

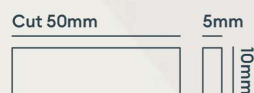
WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
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COMPATIBLE DRIVERS  
See Pages 142-143 to choose driver option

ACCESSORIES

<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted	<b>0</b>
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## STRIP LIGHTS

7W

Ideal for accent lighting with 7W/m

IP67

Ideal for wet environments with IP67 rating



Quick and easy installation with self-adhesive backing

### GUARANTEE

5 years

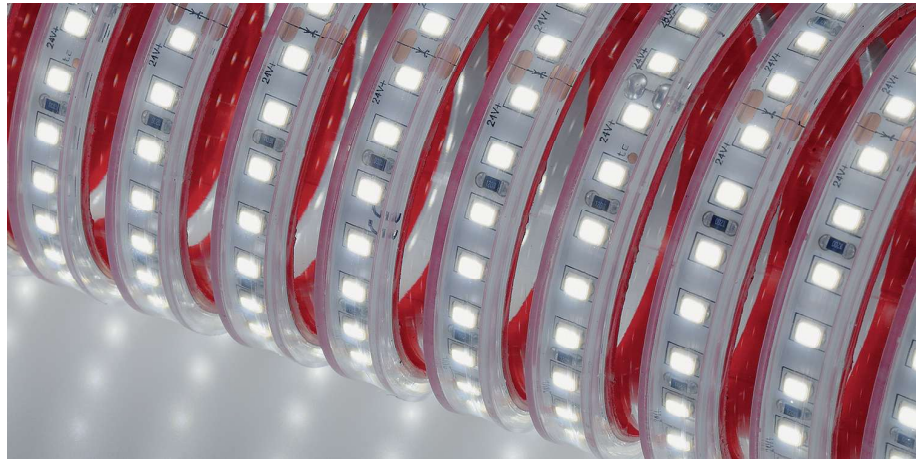
### BENEFITS

140 LEDs/m

Ideal for High-End Residential, Hospitality Spaces & Retail Displays

Cut intervals every 50mm

10mm width



## 70052

7W/m, IP67, 24V current regulated, high CRI, self-adhesive, flexible strip

### FEATURES

<b>Strip Type</b>	Flexible Tape
<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP67
<b>Bespoke Lengths</b>	Yes
<b>Self Adhesive Backing</b>	Yes
<b>Dimmable</b>	Optional
<b>Input</b>	24V DC
<b>LED Life</b>	70 45,000h
<b>CRI</b>	CRi>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>Maximum Running Length</b>	5m
<b>Ambient Temperature</b>	-20-40°C
<b>Electric Class</b>	III
<b>Constant Voltage</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
70052/2700K	5m	7W/m	2700K	120	945	135	A F
70052/90/2700K	5m	7W/m	2700K	120	837	120	A G
70052/90/C	5m	7W/m	3000K	120	837	120	A F
70052/90/N	5m	7W/m	4000K	120	920	131	A F
70052/C	5m	7W/m	3000K	120	994	142	A F
70052/F	5m	7W/m	6000K	120	1113	159	A F
70052/N	5m	7W/m	4000K	120	1113	159	A F

### WIRING INFORMATION

**Type Of Wiring Required** Parallel

### COMPATIBLE DRIVERS

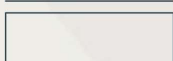
See Pages 142-143 to choose driver option

### ACCESSORIES

**LED Strip Profile** Chose from angled, recessed & surface mounted

0

Cut 50mm



5mm



10mm



- 11W** Ideal for accent lighting with 11W/m
- IP67** Ideal for wet environments with IP67 rating
-  Quick and easy installation with self-adhesive backing

**GUARANTEE**  
5 years

**BENEFITS**  
High efficacy up to 190lm/W providing excellent energy savings  
238 LEDs/m providing high uniformity  
Ideal for High-End Residential, Office & Commercial Spaces  
Cut intervals every 29.4mm  
12mm width

## 70102

11W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Flexible Tape	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	Other	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP67	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-45°C
<b>Bespoke Lengths</b>	Yes	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	Yes	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	None		
<b>LED/m</b>	238		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 45,000h		
<b>CRI</b>	CRb80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
70102/2700K	5m	11W/m	2700K	120	1562	143	
70102/90/2700K	5m	11W/m	2700K	120	1904	173	
70102/90/C	5m	11W/m	3000K	120	1904	173	
70102/90/N	5m	11W/m	4000K	120	2094	190	
70102/C	5m	11W/m	3000K	120	1652	150	
70102/F	5m	11W/m	6000K	120	1850	168	
70102/N	5m	11W/m	4000K	120	1850	178	

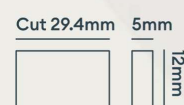
WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
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COMPATIBLE DRIVERS  
See Pages 142-143 to choose driver option

ACCESSORIES

<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted	0
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## STRIP LIGHTS

11W

Ideal for accent lighting with 11W/m

IP65

Ideal for wet environments with IP65 rating



Quick and easy installation with self-adhesive backing

### GUARANTEE

3 years

### BENEFITS

230V long run solution for up to 50m from a single power supply

140 LEDs/m

Ideal for Hospitality Spaces, Hotel Receptions & Corridors, Building Façades, Large Gardens & Maintenance Areas

Cut intervals every 100mm

12mm width



## 70220

11W/m, IP65, 230V, high CRI, self-adhesive, flexible strip

### FEATURES

<b>Strip Type</b>	Flexible Tape
<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP65
<b>Colour Flexibility</b>	Single CCT
<b>Bespoke Lengths</b>	No
<b>Self Adhesive Backing</b>	Yes
<b>Dimmable</b>	Mains (Leading Edge/Trailing Edge)
<b>LED/m</b>	140
<b>Input</b>	220-240V AC
<b>LED Life</b>	L70 B50 50,000h
<b>CRI</b>	CRI>80
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>Maximum Running Length</b>	50m
<b>Ambient Temperature</b>	-20-40°C
<b>Electric Class</b>	II

### PHOTOMETRICS @ 25°C

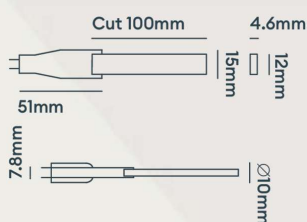
Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
70220/C/05	5m	11W/m	3000K	120	1073	98	
70220/C/20	20m	11W/m	3000K	120	1073	98	
70220/C/50	50m	11W/m	3000K	120	1073	98	
70220/N/05	5m	11W/m	4000K	120	1157	105	
70220/N/20	20m	11W/m	4000K	120	1157	105	
70220/N/50	50m	11W/m	4000K	120	1157	105	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
--------------------------------	----------

### ACCESSORIES

<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted	<b>0</b>
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- 18W** Ideal for primary light with 18W/m
- IP65** Ideal for wet environments with IP65 rating
-  Quick and easy installation with self-adhesive backing

## 70230







18W/m, IP65, 230V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Flexible Tape	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	Other	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP65	<b>Maximum Running Length</b>	50m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-40°C
<b>Bespoke Lengths</b>	No	<b>Electric Class</b>	II
<b>Self Adhesive Backing</b>	Yes		
<b>Dimmable</b>	Mains (Leading Edge/ Trailing Edge)		
<b>LED/m</b>	140		
<b>Input</b>	220-240V AC		
<b>LED Life</b>	L70 B50 50,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

**GUARANTEE**  
3 years

**BENEFITS**  
230V long run solution for up to 50m from a single power supply  
140 LEDs/m  
Ideal for Hospitality Spaces, Hotel Receptions & Corridors, Building Façades, Large Gardens & Maintenance Areas  
Cut intervals every 100mm  
12mm width

PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
70230/C/05	5m	18W/m	3000K	120	1552	86	
70230/C/20	20m	18W/m	3000K	120	1552	86	
70230/C/50	50m	18W/m	3000K	120	1552	86	
70230/N/05	5m	18W/m	4000K	120	1690	94	
70230/N/20	20m	18W/m	4000K	120	1690	94	
70230/N/50	50m	18W/m	4000K	120	1690	94	

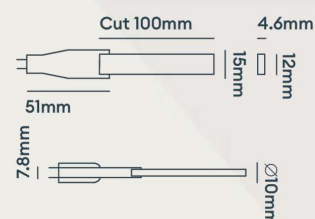
WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
--------------------------------	----------

COMPATIBLE DRIVERS  
See Pages 142-143 to choose driver option

ACCESSORIES

<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted	0
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## STRIP LIGHTS

**9.6W**

Ideal for atmospheric light with 9.6W/m

**IP67**

Ideal for wet environments with IP67 rating



Side bending strip

### GUARANTEE

3 years

### BENEFITS

Flexible neon strip solution

Cut intervals every 71.4mm

Ideal for Retail Displays, Signage, Building Façades, Art Installations, Pathways & Staircases

Installable without aluminum profile



## FL01

9.6W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Side bending	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	IK08	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP67	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-45°C
<b>Bespoke Lengths</b>	No	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	No	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	Optional		
<b>LED/m</b>	84		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 B10 50,000h		
<b>CRI</b>	CRi>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
FL01/C	5m	9.6W	3000K	110	276	29	
FL01/F	5m	9.6W	6000K	110	276	29	
FL01/N	5m	9.6W	4000K	110	276	29	

### WIRING INFORMATION

**Type Of Wiring Required** Parallel

### COMPATIBLE DRIVERS

See Pages 142-143 to choose driver option

### ACCESSORIES

**LED Strip Profile** Chose from angled, recessed & surface mounted

0

Cut 71.4mm

10mm





- 11.5W**

Ideal for accent lighting with 11.5W/m
- IP67**

Ideal for wet environments with IP67 rating
- 

Side bending strip

## FL02

11.5W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Side bending	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	IK08	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP67	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-45°C
<b>Bespoke Lengths</b>	No	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	No	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	Optional		
<b>LED/m</b>	120		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 B10 50,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C							
Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
FL02/C	5m	11.5W	3000K	110	345	30	
FL02/F	5m	11.5W	6000K	110	345	30	
FL02/N	5m	11.5W	4000K	110	345	30	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel

**COMPATIBLE DRIVERS**  
See Pages 142-143 to choose driver option

ACCESSORIES	
<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted

### GUARANTEE

3 years

### BENEFITS

- Flexible neon strip solution
- Cut intervals every 50mm
- Ideal for Retail Displays, Signage, Building Façades, Art Installations, Pathways & Staircases
- Installable without aluminum profile



## STRIP LIGHTS

**14.4W**

Ideal for accent lighting with 14.4W/m

**IP67**

Ideal for wet environments with IP67 rating



Side bending strip

### GUARANTEE

3 years

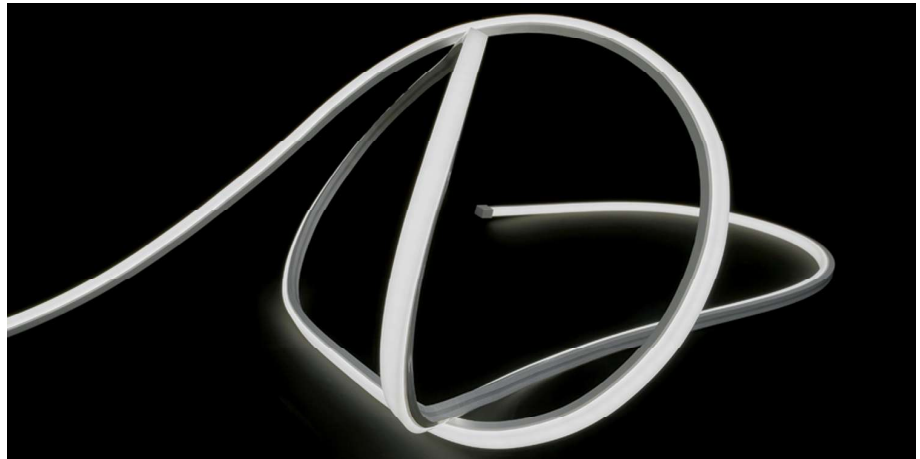
### BENEFITS

Flexible neon strip solution

Cut intervals every 50mm

Ideal for Retail Displays, Signage, Building Façades, Art Installations, Pathways & Staircases

Installable without aluminum profile



## FL03

14.4W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Top bending	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	IK08	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP67	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-45°C
<b>Bespoke Lengths</b>	No	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	No	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	Optional		
<b>LED/m</b>	140		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 B10 50,000h		
<b>CRI</b>	CRi>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
FL03/C	5m	14.4W	3000K	150	996	69	
FL03/F	5m	14.4W	6000K	150	996	69	
FL03/N	5m	14.4W	4000K	150	996	69	

### WIRING INFORMATION

**Type Of Wiring Required** Parallel

### COMPATIBLE DRIVERS

See Pages 142-143 to choose driver option

### ACCESSORIES

**LED Strip Profile** Chose from angled, recessed & surface mounted

0

Cut 50mm

10mm





## FL04

11.5W/m, IP66, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Side bending	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	IK08	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP66	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-45°C
<b>Bespoke Lengths</b>	No	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	No	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	Optional		
<b>LED/m</b>	180		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 B10 50,000h		
<b>CRI</b>	CRI>80		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
FL04/C	5m	11.5W	3000K	120	875	76	
FL04/F	5m	11.5W	6000K	120	875	76	
FL04/N	5m	11.5W	4000K	120	875	76	

### WIRING INFORMATION

<b>Type Of Wiring Required</b>	Parallel
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### ACCESSORIES

<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted	<b>0</b>
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**11.5W** Ideal for accent lighting with 11.5W/m

**IP66** Ideal for wet environments with IP66 rating

 Side bending strip

### GUARANTEE

3 years

### BENEFITS

Flexible neon strip solution

Cut intervals every 50mm

Ideal for Retail Displays, Signage, Building Façades, Art Installations, Pathways & Staircases

Installable without aluminum profile



STRIP LIGHTS

11.5W

Ideal for accent lighting with 11.5W/m

IP67

Ideal for wet environments with IP67 rating



Side bending strip

GUARANTEE

3 years

BENEFITS

Flexible neon strip solution

Cut intervals every 50mm

Ideal for Retail Displays, Signage, Building Façades, Art Installations, Pathways & Staircases

Installable without aluminum profile



## FL05

11.5W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Side bending	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	IK08	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP67	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-45°C
<b>Bespoke Lengths</b>	No	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	No	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	Optional		
<b>LED/m</b>	120		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 B10 50,000h		
<b>CRI</b>	CRi>80		
<b>SDCM</b>	SDCM3		

PHOTOMETRICS @ 25°C							
Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
FL05/C	5m	11.5W	3000K	170	402	35	
FL05/F	5m	11.5W	6000K	170	402	35	
FL05/N	5m	11.5W	4000K	170	402	35	

WIRING INFORMATION	
<b>Type Of Wiring Required</b>	Parallel

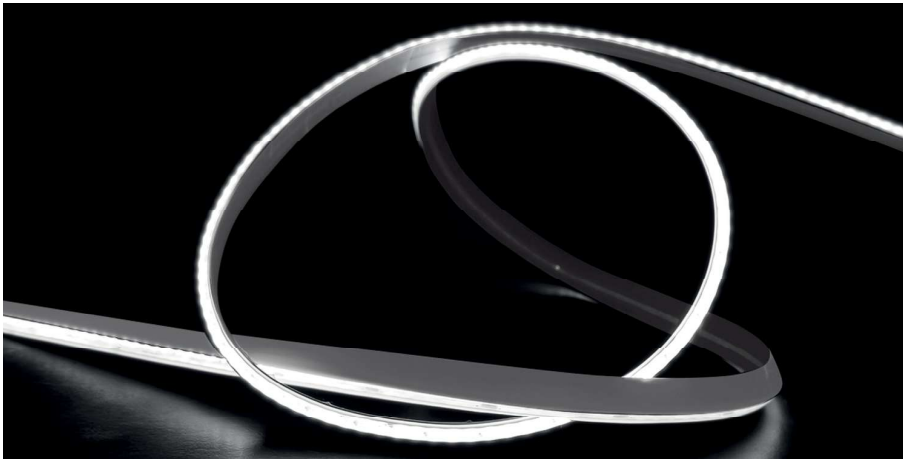
  

ACCESSORIES	
<b>LED Strip Profile</b>	Chose from angled, recessed & surface mounted <b>0</b>

Cut 50mm

10mm





## FL35

9.5W/m, IP65, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION					
Strip Type	Flexible Tape	Install Connector Type	Flying lead				
Impact Strength	IK08	Construction Material	Flexible Tape with Silicone Coating				
IP Rating	IP65	Maximum Running Length	5m				
Colour Flexibility	Single CCT	Ambient Temperature	-20-45°C				
Bespoke Lengths	No	Electric Class	III				
Self Adhesive Backing	No	Constant Voltage	Yes				
Dimmable	Optional						
LED/m	168						
Input	24V DC						
CRI	CRb80						
SDCM	SDCM3						

PHOTOMETRICS @ 25°C						
Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W
FL35/C	5m	9.5 W/m	3000K	100	780	82
FL35/N	5m	9.5 W/m	4000K	100	800	84

WIRING INFORMATION	
Type Of Wiring Required	Parallel

COMPATIBLE DRIVERS	
See Pages 142-143 to choose driver option	

ACCESSORIES	
LED Strip Profile	Chose from angled, recessed & surface mounted

**9.5W**

Ideal for accent lighting with 9.5W/m

**IP65**

Ideal for wet environments with IP65 rating



Dotless LED strip

### GUARANTEE

3 years

### BENEFITS

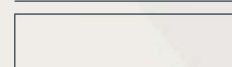
Flexible neon strip solution

35° light emission

Ideal for functional and discreet lighting under cabinets

Complete with 3M double-sided tape for free-standing installation

Cut 41.6mm



5.6mm



## STRIP LIGHTS

14W

Ideal for primary lighting with 14W/m

IP67

Ideal for wet environments with IP67 rating



Quick and easy installation with self-adhesive backing

### GUARANTEE

5 years

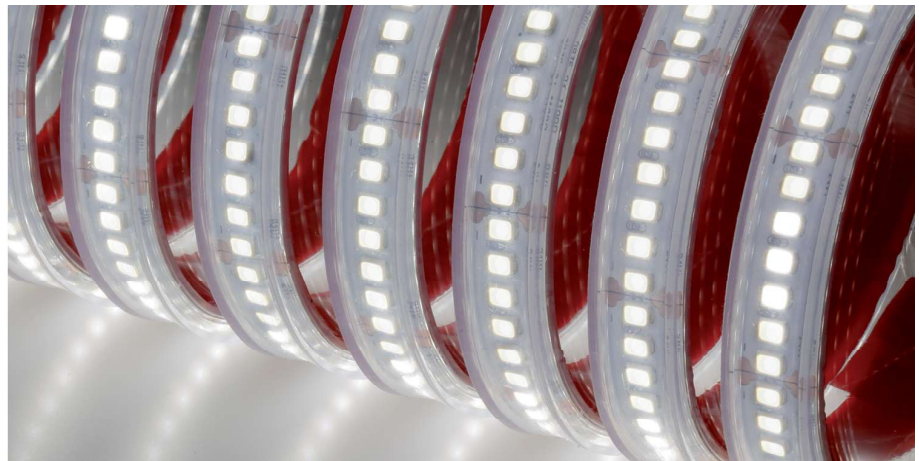
### BENEFITS

High efficacy up to 154lm/W

238 LEDs/m providing high uniformity

Ideal for Leisure Spaces & Gardens

12mm width



## 80310

14W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

### FEATURES

<b>Strip Type</b>	Flexible Tape
<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP67
<b>Colour Flexibility</b>	Single CCT
<b>Bespoke Lengths</b>	Yes
<b>Self Adhesive Backing</b>	Yes
<b>Dimmable</b>	Optional
<b>LED/m</b>	238
<b>Input</b>	24V DC
<b>LED Life</b>	L70 50,000h
<b>CRI</b>	CRI>90
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>Maximum Running Length</b>	5m
<b>Ambient Temperature</b>	-20-45°C
<b>Electric Class</b>	III
<b>Constant Voltage</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
80310/90/2700K	5m	14W/m	2700K	120	1960	140	
80310/90/C	5m	14W/m	3000K	120	1960	140	
80310/90/N	5m	14W/m	4000K	120	2159	154	

### WIRING INFORMATION

**Type Of Wiring Required** Parallel

### COMPATIBLE DRIVERS

See Pages 142-143 to choose driver option

### ACCESSORIES

**LED Strip Profile** Chose from angled, recessed & surface mounted

0

Cut 29.4mm 5mm





## 80350

19.2W/m, IP67, 24V, high CRI, self-adhesive, flexible strip

FEATURES		INSTALLATION INFORMATION	
<b>Strip Type</b>	Flexible Tape	<b>Install Connector Type</b>	Flying lead
<b>Impact Strength</b>	Other	<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>IP Rating</b>	IP67	<b>Maximum Running Length</b>	5m
<b>Colour Flexibility</b>	Single CCT	<b>Ambient Temperature</b>	-20-40°C
<b>Bespoke Lengths</b>	Yes	<b>Electric Class</b>	III
<b>Self Adhesive Backing</b>	Yes	<b>Constant Voltage</b>	Yes
<b>Dimmable</b>	Optional		
<b>LED/m</b>	128		
<b>Input</b>	24V DC		
<b>LED Life</b>	L70 50,000h		
<b>CRI</b>	CR190		
<b>SDCM</b>	SDCM3		

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
80350/90/2700K	5m	19.2W/m	2700K	120	2800	146	
80350/90/C	5m	19.2W/m	3000K	120	2800	146	
80350/90/N	5m	19.2W/m	4000K	120	3037	158	

### WIRING INFORMATION

**Type Of Wiring Required** Parallel

### COMPATIBLE DRIVERS

See Pages 142-143 to choose driver option

### ACCESSORIES

**LED Strip Profile** Chose from angled, recessed & surface mounted **0**

**19W**

Ideal for primary lighting with 19.2W/m

**IP67**

Ideal for wet environments with IP67 rating



Quick and easy installation with self-adhesive backing

### GUARANTEE

5 years

### BENEFITS

128 LEDs/m

Ideal for Ceiling Troffers in Office Lighting & Retail

Cut intervals every 62.5mm

14mm width

Cut 62.5mm

5mm



## STRIP LIGHTS

11W

Ideal for accent lighting with 11W/m

IP66

Ideal for Bathrooms, Decking, Patios & Landscaping with IP66/IP67 rating



Quick and easy installation with self-adhesive backing

### GUARANTEE

5 years

### BENEFITS

High efficacy up to 128lm/W

MCOB strip providing a white dot-free appearance even when switched off

480 LEDs/m providing high visual uniformity

Cut intervals every 50mm

8mm width, compatible with all profiles



## MC67

11W/m, IP66/67, 24V, high CRI, self-adhesive, flexible strip

### FEATURES

<b>Strip Type</b>	Flexible Tape
<b>Impact Strength</b>	Other
<b>IP Rating</b>	IP66/IP67
<b>Colour Flexibility</b>	Single CCT
<b>Bespoke Lengths</b>	Yes
<b>Self Adhesive Backing</b>	Yes
<b>Dimmable</b>	Optional
<b>LED/m</b>	480
<b>Input</b>	24V DC
<b>LED Life</b>	L70 50,000h
<b>CRI</b>	CRI>90
<b>SDCM</b>	SDCM3

### INSTALLATION INFORMATION

<b>Install Connector Type</b>	Flying lead
<b>Construction Material</b>	Flexible Tape with Silicone Coating
<b>Maximum Running Length</b>	5m
<b>Ambient Temperature</b>	-20-40°C
<b>Electric Class</b>	II
<b>Constant Voltage</b>	Yes

### PHOTOMETRICS @ 25°C

Product Code	Reel	W	Colour	Beam (°)	lm	Lm/W	Energy
MC67/11/C	5m	11W/m	3000K	120	1250	114	
MC67/11/N	5m	11W/m	4000K	120	1410	128	

### WIRING INFORMATION

**Type Of Wiring Required** Parallel

### COMPATIBLE DRIVERS

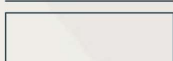
See Pages 142-143 to choose driver option

### ACCESSORIES

**LED Strip Profile** Chose from angled, recessed & surface mounted

0

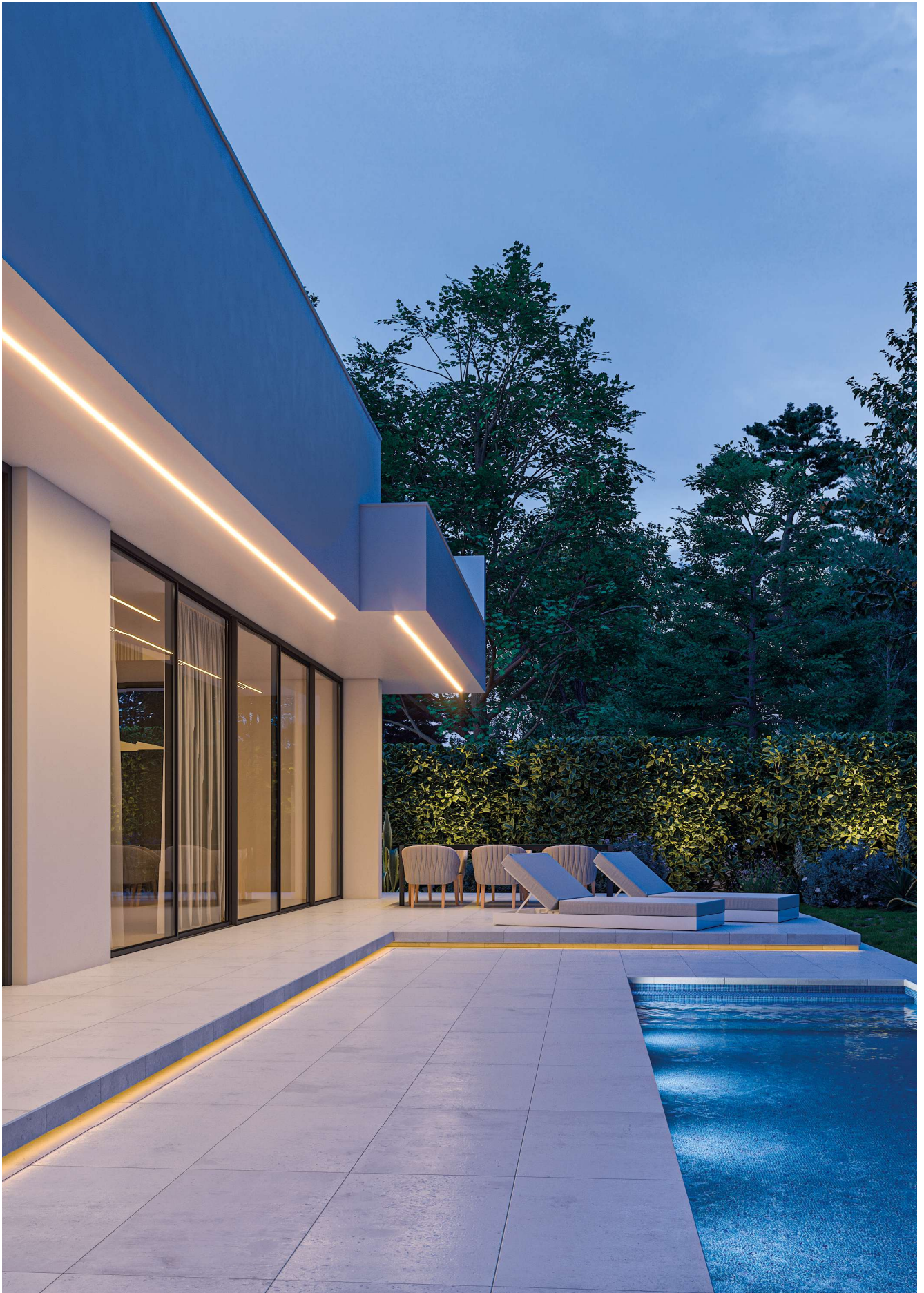
Cut 50mm



6mm



10mm



# LIGHTING CONTROLS



220V  
25W  
LED  
CE  
2018-08-18  
REC 01A  
P/N: 180-000  
2018  
2018  
LED  
2018

# PRODUCTS PER DRIVER MATRIX

The table shows the minimum and maximum of each products that fits onto each driver.

	PS1524	PSMD3024	LSD3024	LSD6024	PSDIP6024	LSD7524	PSDIP10024	PSMDIP10024	LSD12024	PSIP15024	PSDAL20024	PSIP25024
<b>Driver information</b>												
Constant current or Constant voltage	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV
Output classification	24V	24V	24V	24V	24V	24V	24V	24V	24V	24V	24V	24V
IP rating	IP20	IP20	IP20	IP20	IP66	IP20	IP66	IP66	IP20	IP67	IP66	IP67
Dimmable	1-10V*	Mains	No	No	1-10V	No	1-10V	Mains	No	1-10V*	1-10V	1-10V*
DIN rail mount	No	No	No	No	No	No	No	No	No	No	No	No
Plug & Play	No	No	No	No	No	No	No	No	No	No	No	No
<b>Product</b>												
<b>BOL01</b>												
<b>FOUX167N30</b>			1-1	1-2	1-2	1-2	1-4		1-4	1-6		1-10
<b>GL016</b>												
<b>GL016 Frosted</b>												
<b>GL018</b>	1-30	36-60	1-60	1-120	1-120	1-120	1-200	1-200	1-240	1-300	1-400	1-500
<b>GL019</b>												
<b>GL019 Frosted</b>												
<b>GL021</b>												
<b>GL022</b>												
<b>GL034</b>												
<b>GL038</b>												
<b>GL040</b>												
<b>GL040 Frosted</b>												
<b>GL100</b>												
<b>SL030</b>												
<b>SL040A</b>												
<b>SL130</b>												
<b>SL220</b>												
<b>SL230</b>												
<b>SL230 Single Head</b>												
<b>Spydra</b>												
<b>UL010</b>												
<b>UL030</b>												

To place an order use the driver product codes below.

DRV350700TD (350mA & 500mA)	DRV150700 (150mA-350mA)	DRV150700 (400mA-700mA)	DRV350700TD (700mA)	PLD UNI-DRIVE 350MA	PSDAL350M	PSDIM350	PSIP3509W	PSIP35018W	PLDM7001I	PLD UNI-DRIVE 700MA	PSDAL700M	PSDIM700	PSIP70018W	PSIP70036W
CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC
350mA-500mA	150mA-350mA	400mA-700mA	700mA	350mA	350mA	350mA	350mA	350mA	700mA	700mA	700mA	700mA	700mA	700mA
IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP65	IP65	IP20	IP20	IP20	IP20	IP65	IP65
Mains (Triac)	No	No	Mains (Triac)	1-10V	DAI or 1-10V	1-10V	No	No	Mains	1-10V	DAI or 1-10V	1-10V	No	No
No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No
*Requires a PDCINTI-10V interface to make it 1 - 10V dimmable														
4-14	1-15	1-15	4-10	1-10	1-18	1-18	1-8	9-17		1-10	1-18	1-18	1-8	9-17
3-12	1-13	1-13	3-8	1-17	1-24	1-24	1-7	8-16		1-14	1-23	1-23	1-7	8-16
3-12	1-13			1-16	1-23	1-23	1-7	8-15						
3-12	1-13	1-13	3-8	1-17	1-24	1-24	1-7	8-16		1-14	1-23	1-23	1-7	8-16
3-12	1-13			1-16	1-23	1-23	1-7	8-15						
4-14	1-15			1-10	1-18	1-18	1-8	9-17						
4-14	1-15			1-10	1-18	1-18	1-8	9-17						
2-6	1-6	1-6	2-4	1-8	1-12	1-12	1-4	5-8		1-7	1-12	1-12	1-4	5-8
2-6	1-6	1-6	2-4	1-8	1-12	1-12	1-4	5-8		1-7	1-12	1-12	1-4	5-8
2-6	1-6	1-6	2-4	1-8	1-12	1-12	1-4	5-8		1-7	1-12	1-12	1-4	5-8
3-12	1-13			1-16	1-23	1-23	1-7	8-15						
3-12	1-13	1-13	3-8	1-17	1-24	1-24	1-7	8-16		1-14	1-23	1-23	1-7	8-16
4-14	1-15	1-15	4-10	1-10	1-18	1-18	1-8	9-17		1-10	1-18	1-18	1-8	9-17
		1-4	2-3							1-3	1-6	1-6	1-2	3-5
4-14	1-15	1-15	4-10	1-10	1-18	1-18	1-8	9-17		1-10	1-18	1-18	1-8	9-17
2-6	1-6	1-6	2-4	1-8	1-12	1-12	1-4	5-8		1-7	1-12	1-12	1-4	5-8
1-3	1-3	1-3	1-2	1-4	1-6	1-6	1-2	3-4		1-3	1-6	1-6	1-2	3-4
2-6	1-6	1-6	2-4	1-8	1-12	1-12	1-4	5-8		1-7	1-12	1-12	1-4	5-8
2-4	1-4	1-4	2-3	1-3	1-5	1-5	1-2	3-5		1-3	1-6	1-6	1-2	3-5
3-12	1-13	1-13	3-8	1-17	1-24	1-24	1-7	8-16		1-14	1-23	1-23	1-7	8-16
2-6	1-6	1-6	2-4	1-8	1-12	1-12	1-4	5-8		1-7	1-12	1-12	1-4	5-8

# PRODUCTS PER DRIVER MATRIX

The table shows the minimum and maximum of each products that fits onto each driver.

	5855	5988	5989	5674	5678	5990	5677	5675	5671	5796	5788
<b>Driver information</b>											
Constant current or Constant voltage	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV
Output classification	24V	24V	24V	24V	24V	24V	24V	24V	24V	24V	24V
IP rating	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP67	IP67
Dimmable	No	No	No	No	No	No	No	No	No	No	No
DIN rail mount	No	No	No	No	No	No	No	No	No	No	No
Plug & Play	No	No	No	No	No	No	No	No	No	No	No

\*Requires a PDCINTI-10V interface to make it 1 - 10V dimmable

<b>24V Strip</b>	Maximum length										
<b>50051</b>	1.5m	2.5m	5m	5m	6m	8m	10m	12.5m	12.5m	15m	2m
<b>50102</b>	1m	1.5m	3m	3.5m	4m	5.5m	6.5m	8m	8m	10m	1.5m
<b>70012</b>	3.5m	5m	10.5m	12m	13m	17.5m	20.5m	26m	26m	31m	4m
<b>70052</b>	2.5m	3.5m	7m	8m	9m	12m	14m	18m	18m	21m	3m
<b>70102</b>	1.5m	2m	4.5m	5m	5.5m	7.5m	9m	11.5m	11.5m	13.5m	1.5m
<b>FL01</b>	2.5m	3.5m	7.5m	8.5m	9.5m	12.5m	15m	19m	19m	22.5m	3m
<b>FL02</b>	1.5m	2.5m	5.5m	6.5m	7m	9.5m	11.5m	14.5m	14.5m	17m	2.5m
<b>FL03</b>	2m	3m	6.5m	7.5m	8m	11m	13m	16.5m	16.5m	19.5m	2.5m
<b>FL04</b>	2m	2.5m	5.5m	6.5m	7m	9.5m	11.5m	14.5m	14.5m	17m	2.5m
<b>FL05</b>	2m	3m	6m	7m	7.5m	10m	12m	15m	15m	18m	2.5m
<b>FL35</b>	1.5m	2.5m	5m	6m	6.5m	8.5m	10.5m	13m	13m	16m	2m
<b>80200</b>	2.5m	3.5m	7m	8m	9m	12m	14m	18m	18m	21.4m	3m
<b>80310</b>	1m	1.5m	3.5m	4m	4.5m	6m	7m	9m	9m	10.5m	1.5m
<b>80350</b>	0.5m	1m	2.5m	3m	3m	4m	5m	6.5m	6.5m	7.5m	1m
<b>MC67</b>	1.5m	2m	4.5m	5m	5.5m	7.5m	9m	11m	11m	13.5m	1.5m

<b>24V Strip</b>											
<b>FL3D48</b>											
<b>48102</b>											

To place an order use the driver product codes below.

5789	5782	5783	5784	5672	5947	5986	5802/T	5724	5742	5743	5744	5999	5995	5996	5997
CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV	CV
24V	24V	24V	24V	24V	24V	24V	24V	24V	48V	48V	48V	48V	48V	48V	48V
IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP20	IP67	IP20	IP20	IP67	IP67	IP67	IP67	IP67
No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

\*Requires a PDCINTI-10V interface to make it 1 - 10V dimmable

Maximum length															
3m	5m	6m	8m	12.5m	20m	26.5m	8m	8m							
2m	3m	4m	5.5m	8m	13m	17.5m	5.5m	5.5m							
7m	10.5m	13m	17.5m	26m	41.5m	55.5m	17.5m	17.5m							
4.5m	7m	9m	12m	18m	28.5m	38m	12m	12m							
3m	4.5m	5.5m	7.5m	11.5m	18m	24m	7.5m	7.5m							
5m	7.5m	9.5m	12.5m	19m	30m	40.5m	12.5m	12.5m							
4m	5.5m	7m	9.5m	14.5m	23m	31m	9.5m	9.5m							
4.5m	6.5m	8m	11m	16.5m	26m	35m	11m	11m							
4m	5.5m	7m	9.5m	14.5m	23m	31m	9.5m	9.5m							
4m	6m	7.5m	10m	15m	24.5m	32m	10m	10m							
3.5m	5m	6.5m	8.5m	13m	22m	28m	8.5m	8.5m							
4.5m	7m	9m	12m	18m	28.5m	38m	12m	12m							
2.5m	3.5m	4.5m	6m	9m	14m	19m	6m	6m							
1.5m	2.5m	3m	4m	6.5m	10.5m	14m	4m	4m							
3m	4.5m	5.5m	7.5m	11.5m	18.5m	24m	7.5m	7.5m							
									5m	20m	25m	10m	15m	24m	32m
									3.6m	18.1m	22.7m	9m	13.6m	21.8m	29m

# DRIVER COMPARISON

For full driver specifications visit our website [collingwoodlighting.com](http://collingwoodlighting.com)

Product code	Rated wattage (Output)	Output voltage	Output current	Input wattage (Maximum)	Input voltage	Input current (Maximum)	Inrush current	Power factor	Ambient temperature (TA=°C)	Control	Double insulation	Efficiency	IP rating	Plug & Play
EUP30TIHMC0	30W	3-40V DC	750mA	30W	220-240VAC, 50-60Hz	0.17A	15A	0.9	-20°C - 50°C	Mains		87%	IP20	Yes
LSD12024	120W	24V DC	5A max	120W	220-240VAC, 50-60Hz	0.64A	36A 0.183ms	0.9	-15°C - 45°C	Dimmable with PDCINTI-10V	Yes	90%	IP20	No
LSD6024	60W	24V DC	2.5A max	60W	220-240VAC, 50-60Hz	0.32A	37A 0.215ms	0.9	-15°C - 45°C	Dimmable with PDCINTI-10V	Yes	>89%	IP20	No
DRV150700	30W	2.5-42VDC	150-700mA	30W	220-240VAC	150mA-700mA	5.38A 0.032ms	0.95	45°C	Non-dimmable	Yes	89%	IP20	
DRV350700TD	20W	350mA: 9-40V - 500mA: 9-40V - 700mA: 9-29V	350-700mA	20W	220-240VAC	350-700mA	15A 0.09ms	0.95	50°C	Mains (Triac)	Yes	81%	IP20	
PLD UNI-DRIVE 350MA	N/A	2-46V	350mA	18W	110-240V AC	0.14A	5A 0.05ms	0.98	-25°C - 50°C	1-10V	Yes	80%	IP20	
PLD UNI-DRIVE 700MA	N/A	2-36V	700mA	30W	110-240V AC	0.14A	5A 0.05ms	0.98	-25°C - 50°C	1-10V	Yes	80%	IP20	
PLDM70011	N/A	12V	700mA	12W	220-240V AC	0.05A	15A 0.5ms	0.95	-25°C - 40°C	Mains	Yes	>80%	IP20	Yes
PS1524	15W	24V DC	0.625A max.	18W	220-240V AC	0.08A	28A 0.02ms	0.5	45°C	Dimmable with PDCINTI-10V	Yes	>84%	IP20	
PS3024B	30W	24V DC	1.25A max	36W	220-240V AC	0.24A	20A 0.78ms	0.9	-20°C - 45°C	Dimmable with PDCINTI-10V	Yes	>80%	IP20	
PS250600MA	25W	14-42V	250mA - 600mA	29W	220-240VAC, 50-60Hz	0.18A	40A 0.35ms	0.95	-20°C - 45°C	DALI, 0-10V, PUSH DIM	Yes	85%	IP20	No

Loop in / loop out	Din rail mount	Protection	SELV	Dimensions	Weight	Connection output	Input cable	Output cable	Accessories	Warranty
			Yes	H: 42.5mm L: 185mm W: 28.5mm	150g	Terminals	0.75- 2.5mm <sup>2</sup>	0.75- 2.5mm <sup>2</sup>		3 Years
No	No	Mains Surge, Short / Open Circuit	Yes	H: 30mm L: 300mm W: 40mm	425g	Terminals	0.75 - 1.5mm <sup>2</sup>	0.75 - 1.5mm <sup>2</sup>		5 years
No		Mains Surge, Short / Open Circuit	Yes	H: 30mm L: 180mm W: 52mm	296g	Terminals	0.75 - 1.5mm <sup>2</sup>	0.75 - 1.5mm <sup>2</sup>		5 years
	No	Open Circuit, Short Circuit, Over Temperature Self Reset	Yes	H: mm L: mm W: mm		Push-fit terminals		0.75 - 1.5mm <sup>2</sup>		5 years
	No	Open Circuit, Short Circuit, Over Temperature Self Reset	Yes	H: mm L: mm W: mm	130g	Push-fit terminals				5 Years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 103mm W: 67mm	100g	Terminals	0.5-1.5mm <sup>2</sup> max.	0.5-1.5mm <sup>2</sup> max.		5 years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 103mm W: 67mm	100g	Terminals	0.5-1.5mm <sup>2</sup> max.	0.5-1.5mm <sup>2</sup> max.		5 years
	No	Open circuit & short circuit	Yes	H: 28mm L: 78mm W: 50mm	70g	Plug & Play	0.15m, 0.75mm <sup>2</sup> 2-core cable	AWG24 with plug & play connector		7 years
	No	Short circuit, overload & overheating	Yes	H: 19mm L: 103mm W: 35.5mm	80g	Terminals	0.5-1.5mm <sup>2</sup> max.	0.5-1.5mm <sup>2</sup>	<b>PDCINTI-10V</b> Dimming interface	3 Years
	No	Short circuit, overload & overheating	Yes	H: 30mm L: 143mm W: 45mm	146g	Terminals	0.5-1.5mm <sup>2</sup> max.	0.5-1.5mm <sup>2</sup>	<b>PDCINTI-10V</b> Dimming interface	3 Years
No		Over Voltage, Short Circuit, Thermal	Yes	H: 30mm L: 125mm W: 76mm	190g	DC Plug and Play Connector	0.75 - 1.5mm <sup>2</sup>	0.5 - 1.5mm <sup>2</sup>		5 years

# DRIVER COMPARISON

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Product code	Rated wattage (Output)	Output voltage	Output current	Input wattage (Maximum)	Input voltage	Input current (Maximum)	Inrush current	Power factor	Ambient temperature (TA=°C)	Control	Double insulation	Efficiency	IP rating	Plug & Play
PS6501100MA	46W	14-42V	650mA - 1100mA	53W	220-240VAC, 50-60Hz	0.3A	40A 0.35ms	0.95	-20°C - 45°C	DALI, 0-10V, PUSH DIM	Yes	87%	IP20	No
PS7524	75W	24V DC	3.13A max.	90W	200-240V AC	0.4A	75A 0.11ms	0.9	-20°C - 45°C	Dimmable with PDCINTI-10V	Yes	85%	IP20	
PSDAL20024	200W	24V DC	8.33A max.	240W	220-240V AC	1.4A	56A 640µs	0.98	-25°C - 50°C	DALI	Yes	>85%	IP66	
PSDAL350M	N/A	2-74V	350mA	30W	110-240V AC	0.25A	20A 0.4ms	0.95	-25°C - 50°C	1-10V & DALI	Yes	90%	IP20	
PSDAL700M	N/A	2-71V	700mA	56W	110-240V AC	0.25A	20A 0.4ms	0.95	-25°C - 50°C	1-10V & DALI	Yes	90%	IP20	
PSDAL900M	N/A	2-55V	900mA	56W	110-240V AC	0.25A	20A 0.4ms	0.95	-25°C - 50°C	1-10V & DALI	Yes	>80%	IP20	
PSDIM180	N/A		180mA	8.5W	220-240V AC	0.038A	20A 0.4ms	0.9	-25°C - 50°C	Mains	Yes	74%	IP20	Yes
PSDIM350	N/A	2-74V	350mA	30W	110-240V AC	0.25A	20A 0.4ms	0.95	-25°C - 50°C	1-10V	Yes	>80%	IP20	
PSDIM700	N/A	2 - 71V	700mA	56W	110-240V AC	0.25A	20A 0.4ms	0.95	-25°C - 50°C	1-10V	Yes	80%	IP20	
PSDIM900	N/A	2-55V	900mA	56W	110-240V AC	0.25A	20A 0.4ms	0.95	-25°C - 50°C	1-10V	Yes	>80%	IP20	
PSDIP10024	100W	24V DC	4.15A max.	120W	220-240V AC	0.546A	45A 0.7ms	0.98	40°C	0-10V	Yes	>80%	IP66	

Loop in / loop out	Din rail mount	Protection	SELV	Dimensions	Weight	Connection output	Input cable	Output cable	Accessories	Warranty
No		Over Voltage, Short Circuit, Thermal	Yes	H: 30mm L: 125mm W: 76mm	190g	DC Plug and Play Connector	0.75 - 1.5mm <sup>2</sup>	0.5 - 1.5mm <sup>2</sup>		5 years
	No	Short circuit, overload, overheating & over voltage	Yes	H: 28.2mm L: 170mm W: 44.5mm	221g	Terminals	0.5-1.5mm <sup>2</sup> max.	0.5-1.5mm <sup>2</sup>		3 Years
	No	Short circuit, overload & overheating	Yes	H: 53mm L: 255mm W: 80mm	1800g	Flying Lead	Mains: 0.25m, 1mm <sup>2</sup> 3-core cable Ø: 7.5mm DALI: 0.25m, 0.75mm <sup>2</sup> 2-core cable Ø: 7mm	0.25m, 1.5mm <sup>2</sup> 2-core cable Ø 9mm		3 Years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 123mm W: 79mm	100g	Terminals	0.5-1.5mm <sup>2</sup> max.	0.5-1.5mm <sup>2</sup> max.		5 years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 123mm W: 79mm	100g	Terminals	0.5-2.5mm <sup>2</sup> max.	0.5-2.5mm <sup>2</sup> max.		5 years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 123mm W: 79mm	100g	Terminals	0.5-2.5mm <sup>2</sup> max.	0.5-2.5mm <sup>2</sup> max.		7 years
Yes	No	Open / Short Circuit - Power Cycle Reset	Yes	H: 30mm L: 118mm W: 46mm	103g	Plug & Play		H03VVH2-F with connector		3 Years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 123mm W: 79mm	100g	Terminals	0.5-2.5mm <sup>2</sup> max.	0.5-2.5mm <sup>2</sup> max.		5 years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 123mm W: 79mm	100g	Terminals	0.5-2.5mm <sup>2</sup> max.	0.5-2.5mm <sup>2</sup> max.		7 years
	No	Short circuit, overload & overheating	Yes	H: 22mm L: 123mm W: 79mm	100g	Terminals	0.5-2.5mm <sup>2</sup> max.	0.5-2.5mm <sup>2</sup> max.		7 years
	No	Short circuit, overload & overheating	Yes	H: 44mm L: 230mm W: 68mm	1200g	Flying Lead	Mains: 0.25m, 1mm <sup>2</sup> 3-core cable Ø: 7.5mm 1-10V: 0.25m, 0.75mm <sup>2</sup> 2-core cable Ø: 6.5mm	0.25m, 1.5mm <sup>2</sup> 2-core cable Ø: 7mm		3 Years

# DRIVER COMPARISON

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Product code	Rated wattage (Output)	Output voltage	Output current	Input wattage (Maximum)	Input voltage	Input current (Maximum)	Inrush current	Power factor	Ambient temperature (TA=°C)	Control	Double insulation	Efficiency	IP rating	Plug & Play
PSIP15024	150W	24V DC	6.3A max.	178W	220-240V AC	0.80A	45A 1ms	0.95	50°C	Dimmable with PDCINTI-10V	Yes	>85%	IP67	
PSIP25024	250W	24V DC	10.4A max.	285W	220-240V AC	1.6A	30A 0.2ms	0.96	50°C	Dimmable with PDCINTI-10V	Yes	84%	IP67	
PSIP35018W	18W	25 - 50V	350mA	20W	220-240V AC	0.1A	13A 0.1ms	0.9	50°C	Non-dimmable	Yes	83%	IP65	
PSIP3509W	9W	2.5 - 25V	350mA	11W	220-240V AC	0.05A	8A 0.1ms	0.9	50°C	Non-dimmable	Yes	82%	IP65	
PSIP70018W	18W	2.5 - 25V	700mA	20W	220-240V AC	0.1A	12A 0.1ms	0.9	50°C	Non-dimmable	Yes	83%	IP65	
PSIP70036W	36W	25 - 50V	700mA	40W	220-240V AC	0.18A	18A 0.1ms	0.9	50°C	Non-dimmable	Yes	85%	IP65	
PSMD3024	30W	24V DC	1.25A	30W	180-240V AC	0.18A	3A 0.08ms	0.95	50°C	Mains	Yes	>83%	IP20	
PSMDIP10024	100W	24V DC	4.17A max.	120W	180-264V AC	0.8A	30A 0.2ms	0.6		Mains	Yes	85% with max load	IP66	

Loop in / loop out	Din rail mount	Protection	SELV	Dimensions	Weight	Connection output	Input cable	Output cable	Accessories	Warranty
	No	Short circuit, overload & overheating	Yes	H: 37mm L: 190mm W: 62mm	1200g	Flying Lead	0.25m, 1mm <sup>2</sup> 3-core cable Ø: 7.5mm	0.25m, 1mm <sup>2</sup> 2-core cable Ø: 8mm	<b>PDCINTI-10V</b> Dimming interface	3 Years
	No	Short circuit, overload & over current	Yes	H: 36mm L: 220mm W: 62mm	875g	Flying Lead	0.25m, 1mm <sup>2</sup> 3-core cable Ø: 7.5mm	0.25m, 2mm <sup>2</sup> 2-core cable Ø: 9mm	<b>PDCINTI-10V</b> Dimming interface	3 Years
	No	Short circuit, overload & overheating	Yes	H: 25mm L: 180mm W: 42mm	200g	Flying Lead	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm		5 years
	No	Short circuit, overload & overheating	Yes	H: 24mm L: 160mm W: 38mm	200g	Flying Lead	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm		5 years
	No	Short circuit, overload & overheating	Yes	H: 24mm L: 160mm W: 38mm	200g	Flying Lead	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm		5 years
	No	Short circuit, overload & overheating	Yes	H: 25mm L: 180mm W: 42mm	250g	Flying Lead	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm	0.2m, 1mm <sup>2</sup> 2-core cable Ø: 7mm		5 years
	No	Short circuit, overload & overheating	Yes	H: 45mm L: 185mm W: 65mm	450g	Terminals	0.75-4.0mm <sup>2</sup> max.	0.5-4.0mm <sup>2</sup> max.		3 Years
	No	Short circuit, overload & over current	Yes	H: 43mm L: 230mm W: 70mm	1300g	Flying Lead	0.25m, 1mm <sup>2</sup> 3-core cable Ø: 7.5mm	0.25m, 1mm <sup>2</sup> 2-core cable Ø: 7mm		1 Year Warranty

# GENERAL ACCESSORIES

## Junction Boxes and Wiring

### JB2 (SERIES)

WATERPROOF JUNCTION BOX



Key features		Use in conjunction with		
Max. voltage	48V DC	GL016	GL019	GL040
Max. current	700mA	GL100	UL010	SL220
Max. conductor size	1mm <sup>2</sup>			
Cable diameter	5 - 6.5mm <sup>2</sup>			
IP rating	IP68 (2m)			
Wiring	Series			
Inputs	1			
Outputs	1 - 3			

### JB5 (PARALLEL)

GEL FILLED WATERPROOF JUNCTION BOX



Key features		Use in conjunction with	
Max. voltage	250V AC	GL200	WL339
Max. current	16A	WL341	
Max. conductor size	1.5mm <sup>2</sup>		
Cable diameter	6.5 - 12mm <sup>2</sup>		
IP rating	IP68 (1.3m)		
Wiring	Parallel		
Inputs	1		
Outputs	1 - 3		

### JB3

WATERPROOF JUNCTION BOX



Key features		Use in conjunction with
Max. voltage	400V AC	GL016RGBW
Max. current	30A	
Max. conductor size	4mm <sup>2</sup>	
Cable diameter	3 - 12mm <sup>2</sup>	
IP rating	IP66	
Wiring	Parallel	
Inputs	1	
Outputs	1 - 7	

### JB6

INLINE IP68 GEL FILLED CABLE CONNECTOR



Key features		Use in conjunction with
Max. voltage	250V AC	WCR 275 BLACK Ideal for extending cable when it's not long enough
Max. current	6A	
Max. conductor size	0.75mm <sup>2</sup>	
Cable diameter	4.8 - 6mm <sup>2</sup>	
IP rating	IP68 (1.3m)	
Wiring	Inline	
Inputs	1	
Outputs	1	

### JB4 (SERIES)

GEL FILLED WATERPROOF JUNCTION BOX



Key features		Use in conjunction with		
Max. voltage	120V DC	GL016	GL019	GL040
Max. current	700mA	GL100	UL010	SL220
Max. conductor size	1.5mm <sup>2</sup>			
Cable diameter	3 - 12mm <sup>2</sup>			
IP rating	IP66			
Wiring	Series			
Inputs	1			
Outputs	1 - 7			

### JB7

5 POLE SCREW TERMINAL IP68 CONNECTOR



Key features (RGBW only)		Use in conjunction with
Max. voltage	24V	GL016RGBW
Max. current	1.4A	
Max. conductor size	4mm <sup>2</sup>	
Cable diameter	7 - 10.5mm <sup>2</sup>	
IP rating	IP68 (1.3m)	
Wiring	Parallel	
Inputs	1	
Outputs	1	

## WC5-9

QUICK RELEASE  
WATERPROOF CONNECTOR



Key features		Use in conjunction with	
Max. voltage	250AC/50 DC	GL200	SL220
Max. current	10A	WL339	WL340
Max. conductor size	4mm <sup>2</sup>	WL341	WL342
Cable diameter	5 - 9mm <sup>2</sup>		
IP rating	IP68 (1.3m)		
Wiring	Inline		
Inputs	1		
Outputs	1		

## WCR 275 BLACK

2-CORE  
RUBBER CABLE



Key features		Use in conjunction with	
Cable	H05RN-F 2 x 0.75mm <sup>2</sup> Outer diameter 6mm	JB2	JB4
Material	Copper cable, rubber outer	JB6	
Length	100m reel		

## WCR 375 BLACK

3-CORE  
RUBBER CABLE



Key features		Use in conjunction with	
Cable	H05RN-F 3 x 0.75mm <sup>2</sup> Outer diameter 6mm	JB5	WC 5-9
Material	Copper cable, rubber outer		
Length	100m reel		
Indoor / outdoor	Suitable for permanent outdoor use		

# MAXIMUM CABLE LENGTHS

Use the tables below for the maximum cable length

The lengths below are guidelines which cover most installations. If an installation requires a longer cable length, it may be possible but a calculation will be needed to confirm it. Please contact our technical support team for further information. **All wiring must comply with national wiring regulations**

## CONSTANT CURRENT DRIVERS

Cable length in metres is from the driver to the last LED unit.  
The number of LED's units wired to the driver does not affect the cable length.

Driver	0.2mm <sup>2</sup>	0.35mm <sup>2</sup>	0.5mm <sup>2</sup>	0.75mm <sup>2</sup>	1mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>
350mA drivers	50m	80m	100m	150m	200m	300m	500m
700mA drivers	25m	40m	50m	75m	100m	150m	250m

Maximum length for a 350mA driver using 1.5mm<sup>2</sup> cable is 300 metres of 2 core cable using one core for feed and the second core for return.

## SINGLE COLOUR 24V DC LED STRIP (LSV, LSC, NEON, COF)

Recommended maximum cable length from power supply to **start** of strip.

Driver	0.5mm <sup>2</sup>	0.75mm <sup>2</sup>	1mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>
4.8W/m	20m	30m	40m	60m	100m
6.5W/m	16m	25m	32m	50m	80m
8W/m	13m	20m	26m	40m	65m
9.6W/m	10m	15m	20m	30m	50m
14.4W/m	7m	10m	15m	20m	35m
17W/m	6m	9m	12m	18m	30m

Above figures are for a 5m strip length. For a 2.5m strip length, for example, the maximum cable length is x 2.

## RGBW PRODUCTS

Maximum cable lengths from power repeater to product.

Driver	0.5mm <sup>2</sup>	0.75mm <sup>2</sup>	1mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>
PR3002	3m	4.5m	6m	9m	15m
PR3011	50m	75m	100m	150m	250m

## GL018 0.5W 24V DC DRIVERS

Cable length is from the driver to the last LED unit.

Driver	0.5mm <sup>2</sup>	0.75mm <sup>2</sup>	1mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>
Up to 10 - GL018	100m	180m	220m	360m	550m
Up to 20 - GL018	50m	90m	110m	180m	225m
Up to 30 - GL018	35m	60m	70m	120m	180m
Up to 40 - GL018	25m	40m	50m	80m	130m



	<b>B</b>		<b>G</b>			
BLSAG3RDCS .....	109		GL016RSS22F.....	41	GL040RSS40S .....	40
BLSAG6RDCS .....	109		GL016RSS22S .....	41	GL040USS22F.....	42
BLSBK3RDCS .....	109		GL016RSS27F.....	41	GL040USS22S.....	42
BLSBK6RDCS .....	109		GL016RSS27S.....	41	GL040USS27F.....	42
BLSCN3RDCS .....	109		GL016RSS30F.....	41	GL040USS27S.....	42
BLSCN6RDCS .....	109		GL016RSS30S.....	41	GL040USS30F.....	42
			GL016RSS40F.....	41	GL040USS30S.....	42
			GL016RSS40S.....	41	GL040USS40F.....	42
			GL018 C 27.....	24	GL040USS40S.....	42
FL01/C .....	128		GL018 C NW .....	24	GL100SSIW22 .....	30
FL01/F .....	128		GL018 C WARM WHITE .....	24	GL100SSIW27 .....	30
FL01/N .....	128		GL018 SQ WARM WHITE.....	25	GL100SSIW30 .....	30
FL01APCS.....	94		GL019E27BL.....	50	GL100SSIW40 .....	30
FL01AXCS.....	94		GL019E27SS .....	50	GL100SS2O22 .....	32
FL01BPCS.....	94		GL019E30BL .....	50	GL100SS2O27.....	32
FL01BXCS.....	94		GL019E30BL .....	50	GL100SS2O30.....	32
FL01WPCS.....	94		GL019E30SS.....	50	GL100SS2O40.....	32
FL01WXCS.....	94		GL019RSS22F.....	26	GL100SS2W22.....	31
FL02/C .....	129		GL019RSS22S .....	26	GL100SS2W27 .....	31
FL02/F .....	129		GL019RSS27F.....	26	GL100SS2W30 .....	31
FL02/N .....	129		GL019RSS27S.....	26	GL100SS2W40 .....	31
FL02APCS.....	95		GL019RSS30F.....	26	GL100SS3W22.....	33
FL02AXCS.....	95		GL019RSS30S.....	26	GL100SS3W27 .....	33
FL02BPCS.....	95		GL019RSS40F.....	26	GL100SS3W30 .....	33
FL02BXCS.....	95		GL019RSS40S.....	26	GL100SS3W40 .....	33
FL02WPCS.....	95		GL019USS22F.....	28	GL100SS4W22.....	34
FL02WXCS.....	95		GL019USS22S.....	28	GL100SS4W27.....	34
FL03/C .....	130		GL019USS27F.....	28	GL100SS4W30 .....	34
FL03/F .....	130		GL019USS27S.....	28	GL100SS4W40 .....	34
FL03/N .....	130		GL019USS30F.....	28	GL200AX1X27 .....	38
FL03APCS.....	96		GL019USS30S.....	28	GL200AX1X30.....	38
FL03AXCS .....	96		GL019USS40F.....	28	GL200AX2127.....	38
FL03BPCS.....	96		GL019USS40S.....	28	GL200AX2130 .....	38
FL03BXCS.....	96		GL021 27 .....	52	GL200AX2227.....	38
FL03WPCS.....	96		GL021 NW .....	52	GL200AX2230 .....	38
FL03WXCS.....	96		GL022 27 .....	53	GL200AX3X27 .....	39
FL04/C .....	131		GL022 NW .....	53	GL200AX3X30 .....	39
FL04/F .....	131		GL022 WW.....	53	GL200AX4X27.....	39
FL04/N .....	131		GL034SS22MF.....	51	GL200AX4X30 .....	39
FL05/C .....	132		GL034SS27MF .....	51	GL200DX1X27 .....	36
FL05/F .....	132		GL034SS30MF.....	51	GL200DX1X30 .....	36
FL05/N .....	132		GL034SS40MF.....	51	GL200DX1X40 .....	36
FL05APCS.....	97		GL038SS22MF.....	43	GL200DX2127.....	36
FL05AXCS.....	97		GL038SS27MF.....	43	GL200DX2130 .....	36
FL05BPCS.....	97		GL038SS30MF.....	43	GL200DX2140.....	36
FL05BXCS.....	97		GL038SS40MF.....	43	GL200DX2227.....	36
FL05WPCS.....	97		GL040RSS22F.....	40	GL200DX2230.....	36
FL05WXCS.....	97		GL040RSS22S.....	40	GL200DX2240.....	36
FL10BXCS.....	98		GL040RSS27F.....	40	GL200DX3X27.....	37
FL35/C.....	133		GL040RSS27S.....	40	GL200DX3X30 .....	37
FL35/N .....	133		GL040RSS30F.....	40	GL200DX3X40 .....	37
			GL040RSS30S.....	40	GL200DX4X27.....	37
			GL040RSS40F.....	40	GL200DX4X30 .....	37
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