



# MG Lite

Energy Saving Solutions

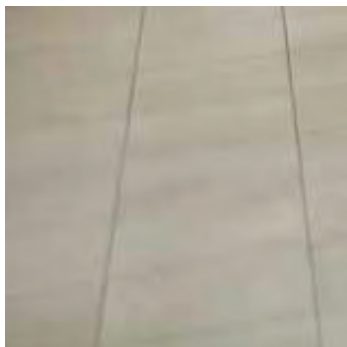
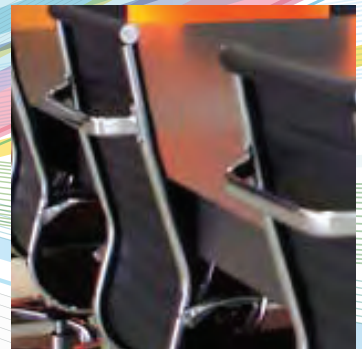
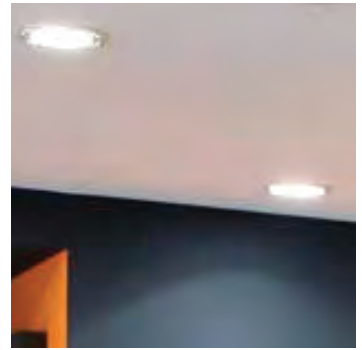
**CATALOGUE**  
*4th Edition*





MG Lites Energy Saving Solutions Ltd  
are involved in the development,  
production and distribution of  
energy saving products.

[www.mglites.com](http://www.mglites.com)



## Welcome to our Fourth catalogue!

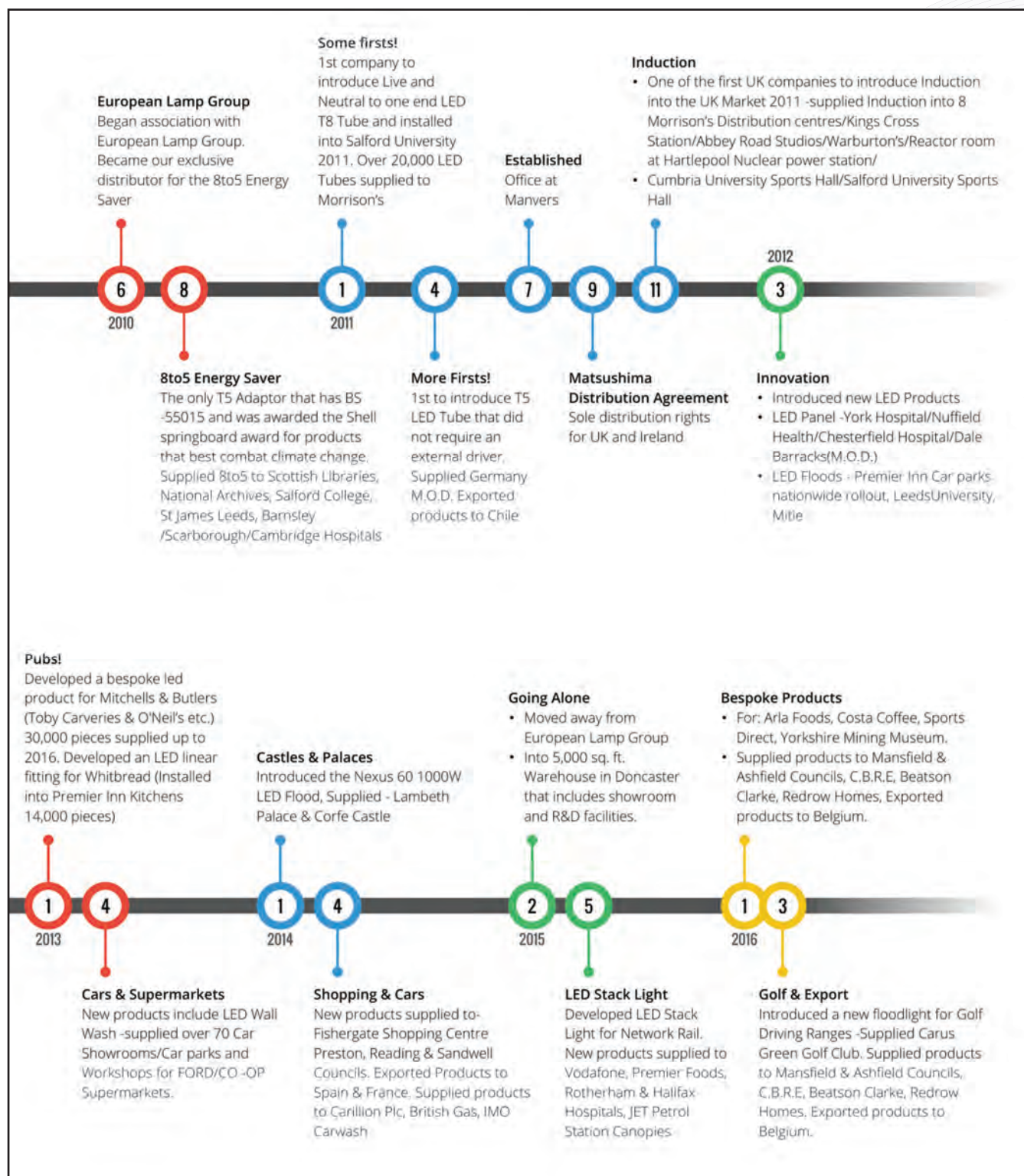
Our new catalogue includes many new and exciting products.

We have introduced a new Section from our Technical Director Keith Steele on what to consider when specifying or buying LED lighting which we think you will find an enlightening read.

As a company we are constantly looking for new and innovative products, and frequently design bespoke products for end users supplying through the wholesale market.

As part of our service we are happy to offer free site surveys and lighting designs, if requested.

# Product History & Milestones





# Bespoke Products

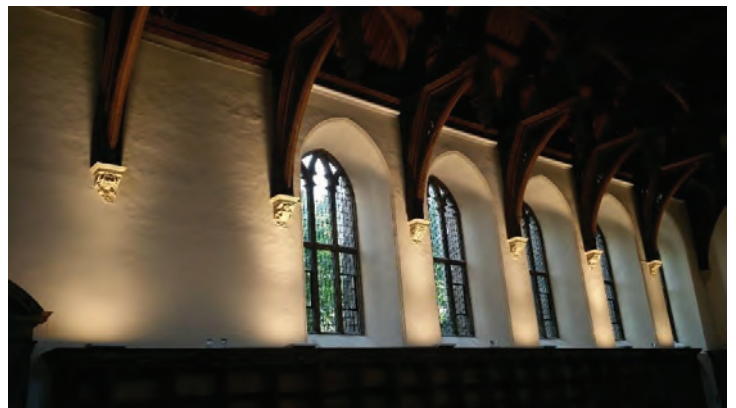


## Lambeth Palace

By identifying and responding to individual customer's specific requirements MG have gained a reputation for designing and producing bespoke lighting products. Our speed and flexibility when dealing with unique requests has gained us a reputation for being one of the UK leading bespoke product designers.

However unusual or difficult the project may appear, MG will consider each enquiry on its own merits and advise you accordingly.

Lambeth Palace was a unique project.





# Case Studies



## Aviation

Project name: Newcastle International Airport  
Date: 2013  
Location: Newcastle  
Product: Downlights corridors and toilets

## Education

Project name: Salford University  
Date: 2016  
Location: Salford  
Product: LED tubes and induction



## Health/Hospitals

Project name: St James's University Hospital  
Date: 2011  
Location: Leeds  
Product: 8 to 5 Energy saver corridors

## Heritage

Project name: Corfe Castle  
Date: 2015  
Location: Wareham  
Product: Nexus Flood 1000W



## Industry

Project name: Ford Epsom  
Date: 2016  
Location: Epsom  
Product: Full site



# Case Studies



## Leisure

Project name: Costa Coffee – Mitchells & Butlers  
Date: 2016  
Location: European Roll Out  
Product: Track Light

## Parking

Project name: Premier Inn  
Date: 2014  
Location: UK Wide  
Product: Car Parking



## Retail

Project name: Preston Fishergate  
Date: 2015  
Location: Preston  
Product: Internal Communal Lighting

## Street Lighting

Project name: Nottinghamshire Council  
Date: 2015  
Location: Nottingham  
Product: SOX Retrofit



## Utilities

Project name: Hartlepool Nuclear Power Station  
Date: 2015  
Location: Hartlepool  
Product: High Bays

# Lighting Terms & Key Facts

## LIGHTING TERMS

### Lumens

An international unit of measurement used to describe the amount of light a light source produces.

### Luminous Flux

A measure of the efficiency of a fitting and a ratio of the lumens that leave the light source and the lumens that finally leave the fitting

### Luminaire Efficiency

The ratio of lumens emitted by a light fixture to the lumens emitted by the lamp(s) installed in that fixture. A luminaire with 0.8 efficiency is considered high whereas an efficiency of 0.6 is considered standard.

### Lux

The international unit for illumination measured in lumens per square meter

### Lumen Depreciation

The gradual decline in the light output from a light source over time.

### Colour Rendering Index (CRI)

A measure of a lamp's ability to render colours accurately in terms of colour reproduction, contrast and shading. A CRI of 85 is considered to be very good.

### Heat Sink

A component found in well-designed LED light fixtures that lowers the temperature of the LEDs by dissipating their heat.

### Power Factor

A ratio that indicates if the voltage and current are out of phase in an electrical circuit. A power factor that is near 1.0 is considered good because this means that the electrical circuit is able to do work efficiently. The closer the power factor is to 0, the more inefficient the electrical circuit is. A high power factor (HPF) is generally considered to be 0.90 and above and a normal power factor (NPF) is generally considered to be between 0.5 and 0.6.

### Color Temperature

A measure of the colour appearance or hue of a light source which helps describe the apparent "warmth" (reddish) or "coolness" (bluish) of that light source.

### IP Ratings

Ingress Protection (IP) ratings are used to specify the environmental protection an enclosure provides to the electrical equipment inside that enclosure. An IP rating normally has two numbers associated with it: (1) protection from solid objects or materials (like dust) and (2) protection from liquids (like water).

## KEY FACTORS TO CONSIDER WHEN LIGHTING A BUILDING

There are several considerations to take into account when installing lighting into a building:

### What is the application of the building?

The level of light required will vary depending on what the building is used for, the CIBSE guidelines highlight the recommended level.

### Environmental Considerations?

If the area is prone to dust, dirt or water then the IP rating of the fitting must be taken into consideration.

### What level of maintenance is required?

Without regular cleaning the light output of all light fittings is reduced. When choosing fittings consideration should be given to access, are there machines underneath the lights?

### What is the ambient temperature?

Consideration should be given to the ambient temperature as this can affect the life of the fitting. For example, if the ambient temperature is 45° then the internal driver in an LED fitting could be operating at 15° higher.

### Special Voltage Supply

Is there any history of voltage dips, surges or interruptions?



# Questions to ask when buying LED Products

Over recent years there have been many new LED lighting products introduced to the market.

Some of these are of excellent quality, built to comply fully with all relevant standards, however there are also some which are untested for use in EU working environments, or are unreliable and possibly unsafe with no genuine CE certification.

Within the industry we have also seen a large number of demi-compliant luminaire built from kit parts. The assumption being that the finished kit part product would pass LVD certification, despite not being tested or certified as the finished/complete supplied product. While many of these kits may pass full CE testing, there is an element of risk and liability, also the kit maker may not be aware of the full technical requirements in order to make the product fit for purpose for its intended application. Below is a guide to assist you in asking the right questions in order to improve the chances of avoiding buying non-compliant products.

## CE certification

CE markings and certificates can easily be forged– it is good practice to check that the test house exists and has full accreditation:

- Are they registered as UKAS accredited (for UK) or china national accreditation service (CNAS)?
- Is the product registered on the TUV online system?
- It is good practice to have an engineer compare the CE test results from the LVD and EMC reports with a sample of the product to make sure test information matches the product supplied.

We have seen manufacturers which claim to have TUV certification for a product range – but only have one product certified by TUV. This can be misleading as it would appear that all the products in the range have this qualification. We recommend checking with TUV online to see which products have been certified.

Be aware, it has been noted, that companies can swap product names/model numbers when selling. This results in supplying a non TUV product that uses the name/model no, of the company's one TUV certified product. The best practice is to check everything – that the product is on the TUV site, and the TUV report number online matches the report number of the LVD/EMC/RHOS reports which also have the same production, report images and the same electrical characteristics.

LVD and EMC reports include a photograph of each actual unit tested and the internal circuit boards. At the minimum you can make sure the images on the report match the supplied product. People have seen cases where the photographs of another product have been copied and pasted into the report! It is good practice to have the reports looked over by an engineer, preferably conducting their own tests/examination of the product to ensure its validity.

While a declaration of conformity from the manufacturer puts the legal responsibility of ensuring the tests done are valid – it would be of little consolation to the user if the manufacturing company simply disappeared. Taking legal action in China from the UK could be difficult and expensive and the importer could end up having to deal with the legal implications alone. Importing companies must perform their due diligence for their own sake and the customers.

Important note: All LED luminaires must have:

EN 62471:2008 Photo biological safety - Blue light radiation -bio hazard certification

EN 62493:2010 Exposure to magnetic fields, EMF- bio hazard certification

**It is now illegal to put a CE mark on a product if the EMF/photo biological certification is not included.**

Unfortunately, there are a large number of imported luminaire products that do not have these standards. Some Chinese manufacturers do not conduct the EN 62471:2008 test, they take it from the LED's data sheet, that the LED does not emit high UV light levels under normal drive currents /voltages. However, this may not be the case when the LED is working in the product.

We find there are manufactures who do not conduct these tests, and make an assumption of compliancy instead. Some are not up to date with current changes in required CE standards or EU directives, this could be the result of a language barrier, but any Chinese manufacture can consult a Chinese test house to ensure their products are up to date. For some smaller companies, it is a financial decision as testing can be very expensive.

It may be that the majority of products that do not have EN 62471:2008, would probably pass, however, it is illegal to include the CE mark without EN 62471:2008 certification, as EN 62471:2008 is a requirement of the LVD directive.

The possible implications of this are as follows:

- if an installation site has a problem, even if the product is not the cause, the site owner could check and find out the EN 62471:2008 certification has not been included and rightly state that the product has been placed onto the market without full compliance to the LVD directive and therefore has a false CE mark, this could then result in legal action.
- There could be a variation in the product's output voltage/current, which causes the product to emit harmful UV radiation – this would be a serious concern for all.

In some cases, products that were introduced many years ago may not have had their standard updated – the manufacturers should keep themselves informed of changes in EU certification requirements and directives.

In most cases, you can ask the manufacturer to update the certification and they will.

## Why are some products cheaper?

It is tempting to buy the cheapest product but beware! Some manufacturers have been known to omit safety and filtering circuitry to lower their product cost and forge CE certificates/testing to save money. It is important to know which products are cheap and dangerous and which products give good value with good safety/reliability and performance.

Some companies can also reduce cost by not conducting all the CE tests required.

We have seen cases where a manufacturer has changed the components to cheaper ones after the CE testing – so the supplied products was not as safe or reliable. MG Lites conduct regular inspections comparing the delivered product to the test reports to ensure no alterations have been made.

Whenever specifying a luminaire product we recommend seeking professional advice as to which relevant standards the product must have – these vary with type/class and application of the product in question.

# Questions to ask when buying LED Products

## LEDs

### Q- Does the manufacturer use a reputable make of LED?

E.G. Cree/Epistar /Osram/Lumiled/luminmax etc.

A reputable name is always a good thing, but if the LED make is not a brand name, but has good LM80 testing results, it can be just as reliable as a brand name LED, providing the manufacturer can produce large quantities with good consistency.

### Q- Are the LEDs in the product being driven correctly (below the max, ratings)?

Can the supplier provide evidence that the LEDs are not being overdriven or over heated beyond the LEDs specifications?

### Q- What cold condition start up method does the driver use –if in use in cold conditions? Has the product been thermally tested?

If the product is for cold environmental use, it may need a driver that employs a slow current rise on start up - to avoid rapid thermal shock which reduces the LED life span

### Q- Are the LEDs LM80 tested?

LM80 testing applies to the electrical optical performance/reliability of the LED component – not the finished product. If the thermal /electrical/optical management of the finished design does match the conditions used in the LM80 report, the LM80 data will not be a useful indication of performance or reliability of the complete product.

Only by checking the LEDs working conditions, when working within the product, can we compare the LM80 prediction conditions with the actual working conditions used. The product's intended working environment has to be taken into account as well.

LM80 test and LED data sheets are useful to engineers for checking the validity of the claims on product samples and give some indication of LED component quality to the consumer.

### Q -Is the product LM79 tested?

LM79 testing looks at the complete design/performance of the luminaire – looking at total system efficacy and light output after driver/optical/thermal losses are taken into account.

Not all products come with LM79 test.

Many products use LM80 testing in conjunction with comparison to actual LED working conditions.

For new products on the market which have not been in service for 50,000Hrs LM79 tests simulate product ageing to provide a guide or prediction to the future performance.

Products already on the market, which come with case studies are useful for confirming the accuracy of the products specification /IES files /reliability statements.

## LED Bin selection

When LEDs are manufactured, they are sorted in to differing quality groups known as bin selections.

LED bin selection can decide/alter the colour, efficiency, CRI, voltage and current of the LED used. To the average customer different LED selections may look the same, until the luminaire is electrical and photometrically tested or they start to depreciate before their expected time.

Example: on a typical LED data sheet, we see the Luminous flux Bin selections – E.G. the luminaire manufacturer can choose from code A/B/C/D which varies from 60 Lm to 80 Lm per LED using a cheaper selection can lower the products light output by 25%.

Replacing a designs high bin selection with a lower light output bin selection would shorten the time the product takes to reach the L70 depreciation point.

With bin selection, a manufacturer can choose to use the best high efficiency/ high CRI index LEDs with a particular set of electrical/photometric characteristics for the product.

However, they can use the good bin selection for the sample/prototype and then use the cheaper one for the production run – this can result in a product which is less efficient/reliable or unfit for purpose.

Sometimes manufacturers may run out of LED stock and use inferior LEDs to replace them – having a UK based quality control monitoring system can ensure consistent product quality.

The average UK customer does not have the facilities to check if the products are consistent with the origin specifications and test reports, or test that the thermal management of the product does not cause problems.

## Luminaire specification

The market has seen some manufacturers which quote the LED specification data as the product specification, quoting the LEDs efficiency as being the luminaires. This is misleading as the final system incurs light output losses through issues such as thermal management/LED bin selection /diffuser loss /differences in drive current/input voltage /whether the LED is running from DC or is pulse driven.

A light plan designer could assume the product will work fine in an ambient air temperature of 35C however, the internal air temperature of an enclosed retrofit fixture will be higher than the external ambient temperature. The manufacturer/seller could have quoted the Ta of the driver not aware that the internal air temperature is higher than the external ambient as the sales staff are not technically trained to be aware of this.

As a result, the market has seen many failures of retrofit products and replacement lamps, where the internal air temperatures are up to 15C-20C higher than ambient – causing the LED and driver to fail if the given Ta rating of the luminaire, not driver, was not correct.

Always ask the manufacturer if the light output and Ta specifications are for the finished product and check it against the highest onsite temperature in the lamps location -expected on the hottest day of the year.



# Questions to ask when buying LED Products

Some LED products can fail where the driver is mounted too close to the LED causing heat transference between the driver and LED array, and where there are multiple LED arrays wired in parallel. A heat imbalance of one array string can alter the electrical characteristics and cause it to draw more current on one array string than others, this thermally induced current distribution imbalance can lead to a cascade failure where the LED string get burned out one by one. We have seen this with many LED tubes/panels in the past

In the UK, the mains voltage can vary. Products that are bench tested at an ideal 230V 25C environment can fail/overheat when working at 180V /260V at higher internal air temperatures. Dirty environments which impede the efficiency of the luminaire's heatsink operation can also contribute to pushing the luminaire beyond its specifications, this is why MG LITES check our products thermal/electrical /photometric performance at differing mains voltages, as found on sites in the UK to ensure the product is fit for its particular purpose.

If your installation site has high surge levels and voltage drops/interruptions and/or high or low temperature environment or/and a high dust/dirt level, it is recommended that you seek professional advice before commencing – as these conditions can combine to cause a potential onsite problem. These are the conditions in which many kit built, not fully certified luminaires fail due to unforeseen onsite conditions.

For example:

If a kit built product is tested at 25C /230V and is seen to output the correct light level –it may fail to perform correctly, if low input voltages cause the driver to use an increased amount of current (making the driver run hotter), add to this, that the recommended cleaning regime may not be quite correct, to ensure good heatsink operation. Also bear in mind, that many kit built units do not always take into account the effect of a driver which is mounted too close to the LED array – so the driver additionally heats up an area of the LED array, possibly causing an imbalance of the current distribution to the LEDs, leading to LED failure, or the onsite temperatures are slightly higher than expected on the hottest day of the year and it is easy to see how problems can occur.

In such circumstances, the site owner could ask to see the EN 62471:2008 (Photo biological safety - Blue light radiation -bio hazard) and EN 62493:2010 (exposure to magnetic fields, EMF- bio hazard) certification and reports. The chances are that the kit may not have been tested/certified as a complete product and therefore has not met the legal requirements to conform to the LVD directive and hence has a false CE mark – making the product and the kit manufacturer legally vulnerable.

## Flicker index

Always check the requirements regarding flicker index of the installation site and select a product with no flicker where machinery such as lathes are used. Check with the site owner and relevant lighting standards to ensure the flicker index chosen is correct for the type of working environment.

## Product Life span

Q- What is the life span of the luminaire and not just the LED?

A luminaire will only last as long as it's weakest component so if the manufacturers claim 50,000hrs LED use – the driver /capacitors/thermal, management /driver input protection stage must all last longer than 50,000hrs

Q- Are the capacitors rated for long life, what is the temperature rating?

Q- Are the capacitors from a well know reputable source?

There are fake/unreliable capacitors on the market – manufacturers like Rubicon or Aishi have been used in products reliably for years, so they are already field tested.

The temperature rating of the capacitors is critical, on a good design you will see the large electrolytic capacitors are temperature rated to 105C – this dictates the lifespan at a given operating temperature and work load.

Even a 105C rated capacitor can fail if it is badly placed on the PCB. E.g. if it's touching a hot heatsink or if the internal air temperature of the driver case is higher than expected due to poor thermal design of the luminaire.

The average customer does not have the facilities to check if the products are consistent with the original specifications and test reports, or test that the thermal management of the product does not cause problems. There are a number of importers of electronic equipment who do not have any electronics knowledge - so they have to trust the manufacturer's declaration of conformity and hope the manufacturer is being honest. Unfortunately, this does not always work out, but onsite problems can be avoided/minimised in the first place by having the product checked out by an engineer to look for obvious concerns regarding the product's fitness for purpose in its final working environment.

It is good practice to use a UK based engineer who can work as a team with the manufacturer to monitor/verify- quality /product behaviour in EU environments and work with the manufacturer to improve the products. This also speeds up the response time in the event of a technical problem.

## EMC

Electromagnetic compatibility ensures the product does not radiate excessive RF emissions or transmit excessive emissions down the mains line to other product causing an energy/fire hazard or interfering with other equipment and will also not be affected when used in parallel with other EMC compliant equipment.

Q- Does the product have BSEN 55015 or EN 61547:2009 [EMC immunity] certification?

Q- Does the supplier have the CE test result documents?

If a lighting product is non-compliant to EN55015 it can interfere with digital/RF communication equipment and computers as well as creating an energy hazard that can cause overheating in the product or other products wired in parallel - this can lead to a potential fire risk.

# Questions to ask when buying LED Products

## EMF

All complete luminaire products must have EN 62493:2010 certification (exposure to magnetic fields-EMF- bio hazard). This is important as new evidence has been found linking high EMF levels to skin cancer due to reduced amounts of melatonin production caused by EMF fields in people with particular health conditions when also combined with high UV levels.

EN 62493:2010 certification is a part of the LVD directive and is compulsory in order to legally affix a CE mark on product. This test is conducted on the complete finished product, but many kit built luminaires may not have had this test performed, an assumption of conformity is made instead. This could leave the supplier legally vulnerable, and there seem to be many importers and kit builders who are unaware of this.

This does not mean that all kit built luminaires are non-compliant – a kit can be built and then tested/certified for use with additional/suitable reliability testing.

## Transient/Surge Protection

**Q- Is the product suitable for the type of pollution environment found on site?**

The term 'pollution environment level' refers to the level of fast transient voltage spikes found on the onsite mains supply which are caused by such things as heavy machinery switching on and off.

E.G. a luminaire which has 1KV protection, will be insufficiently protected for an environment where there are 3.5KV voltage spikes

It is important to know what level and repetition rate of voltage spikes may occur onsite before specifying product for use.

**Q- Is the product certified to EN 61000- 4-4:2010 Electrical fast transient burst test- and to what level of immunity?**

Pollution environment or pollution degree is rated by the level of voltage spikes found on a site's mains supply and varies from polluting degree 1 [0.5KV- domestic use] to degree 4 [4kV – heavy industrial environment] A fast transient voltage spike on an unsuitable product could be a fire risk as well as leading to mass product failure on site.

Lighting products must be selected carefully to match the conditions they will be used in or large scale on site failures can become an issue.

## Electrical safety

Does the driver/control gear have EN 61347 – 2 -3 certification?

Does the complete luminaire have EN 65098 certification?

Does the luminaire have LVD certification?

Is there a declaration of conformity to the LVD directive for the complete product?

Does the driver have SELV /LVD certification? If the LED driver is not a SELV type ask to see the LVD report and have it checked.

Does the driver have open/short/overload protection?

Electrical safety is critically important everyone has a duty of care to ensure customer safety. If a product fails to have the proper insulation/isolation/protection properties it could potentially injure/kill someone in the event of a fault condition or become a fire risk.

## Warranty

Does the warranty cover light maintenance reliability?

Some warranties only cover the user for electrical failures not performance failure.

Is the warranty provider based in the UK – will they still be around in three years' time? Do they have a good track record of rapidly resolving/correcting onsite problems for previous customers?

If there is an onsite problem can the sales company quickly provide technical support/backup and if needed offer corrective action in the UK?

Buying goods directly from E bay or directly from China or from fly by night traders can leave the purchaser with no technical or customer support. Insufficient warranty coverage can leave the customer vulnerable even if the product is at fault.



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**Bulkhead**

**Emergency Lighting**

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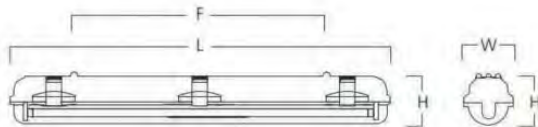
## AquaLED 3 Non Corrosive



The AquaLED 3 is IP65 rated making it ideal for external applications as well as multi-storey car parks, workshops and other similar areas.

### Specification

- Epistar 3528 Chips
- Polycarbonate Body
- Stainless Steel Cover Clips
- 100-240V AC
- FSP Powerland Driver
- IP65
- Emergency Option available
- 3 Year Warranty



Product Code	Size	Watts	Lumens	Dimensions			
				L	F	H	W
MGAQ31122	2ft	1x12W	1150	660	400	100	93
MGAQ32122	2ft	2x12W	2250	660	400	100	140
MGAQ31244	4ft	1x24W	2665	1270	900	100	93
MGAQ32244	4ft	2x24W	4800	1270	900	100	140
MGAQ31405	5ft	1x40W	3860	1565	925	100	93
MGAQ32405	5ft	2x40W	7535	1565	925	100	140
MGAQ31486	6ft	1x48W	4320	1840	935	100	93
MGAQ32486	6ft	2x48W	8620	1840	935	100	140

## AquaLED 4



The new AquaLED 4 has the following features:

- Unique patent design, TUV-GS, IP68, CE/ROHS certified
- Available with PMMA and HBG material
- Waterproof, Dust proof, Damp proof
- High borosilicate glass material support anti-corrosive.
- Excellent transmission of light and thermal conductivity
- High luminous efficiency 100-115 lm/w
- Low light decay
- Long life span 50,000 hours
- Up to 80% energy saving
- 5 year warranty

### Specification

Product Code	MGAQ468X5-60
Dimensions	1517mm Φ100mm
LED Type	SMD 2835
LED Qty	384
Housing Material	PC tube & AL board
Luminous (lm)	5500-6900 Lm
Luminous Efficiency	95-110 lm/w
Input Voltage	AC100-240V
Output Voltage	DC34-40
Power	60W
Colour Temperature	3000K-6000K

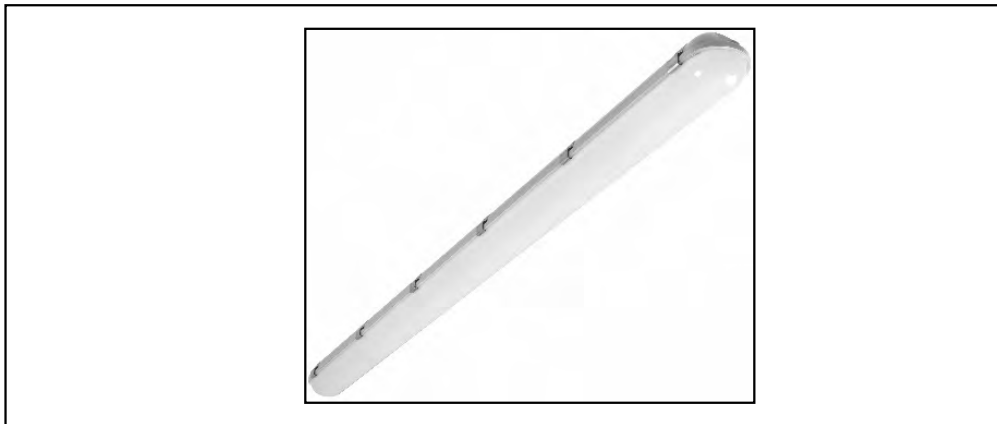
Description	IP68 Tri-proof LED Light
Viewing Angle	180°
Colour Index	80-85 Ra
Power Factor	>0.95
LED Forward Current	50-55 mA
Luminous Flux (5000-5500K)	1M - 2100-2120 2M - 530-550 3M - 240-260
Operating Temperature	-20 to +45 °C
IP Rating	IP68
Lifespan	Up to 50,000 hours
Warranty	5 year

### Installation

The fitting can be ceiling mounted or suspended (full details on website)



## AquaLED 6



Both durable and functional the AquaLED 6 is suitable for use in all retail, commercial and general lighting applications.

- Polycarbonate housing and polycarbonate covers
- 5000K supplied as standard, other colours available on request
- Stainless steel clips supplied fitted as standard
- Through wired for ease of looping and installation.
- 3 year warranty
- IP65

Product Code	Wattage	Dimensions	Lumen Output
MGAQ6220	20W	600x100x73	2000lm
MGAQ6420	20W	1200x100x73	2000lm
MGAQ6440	40W	1200x100x73	4000lm
MGAQ6530	30W	1500x100x73	3000lm
MGAQ6555	55W	1500x100x73	5500lm

### Options

Add to end of Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test 3 Hour Emergency
/SN	PIR
/MS	Microwave Sensor

# Batten Lighting

## Aqualux



The Aqualux has the following benefits making it the Ideal substitute for traditional waterproof luminaires:

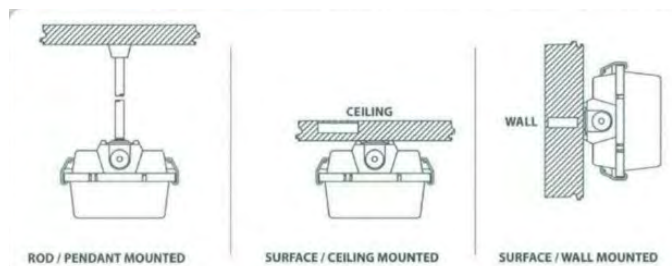
- Direct replacement of traditional luminaires
- High luminous efficacy >100lmW
- 80% Lumen maintenance
- Low maintenance costs

### Specification:

Input Voltage	220-240V 50/60Hz
Colour Temperature	4000K or 6000K
IP rating	IP65
Life Span	50,000 Hours
Options	Emergency and Dimmable versions available

Product Code	Wattage	Lumens	Length
MGAQLX112W	12W	1200lm	635mm 2ft
MGAQLX212W	24W	2400lm	635mm 2ft
MGAQLX124W	24W	2400lm	1235mm 4ft
MGAQLX224W	48W	4800lm	1235mm 4ft
MGAQLX130W	30W	3000lm	1535mm 5ft
MGAQLX230W	60W	6000lm	1535mm 5ft
MGAQLX140W	40W	4000lm	1535mm 5ft
MGAQLX240W	80W	8000lm	1535mm 5ft

### Mounting



## IP65 Pre-wired Batten



IP65/Anti-Corrosive LED battens are a range of high efficiency luminaires designed to accommodate LED T8 lamps. They are suitable for general lighting in retail, commercial applications and suitable for outdoor use. Ideal for car parks, farmyards, storerooms, sheds etc.

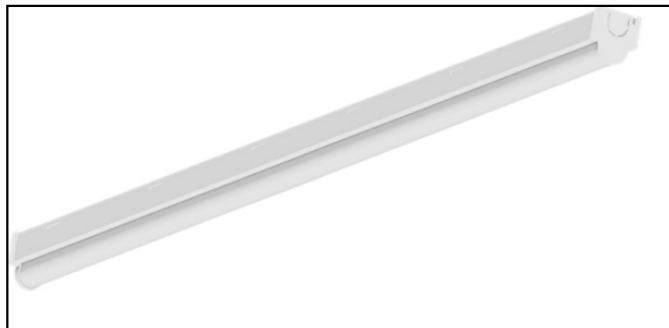
- ABS housing and polycarbonate diffuser
- IP65

Product Code	Description	Dimensions (mm)
MG2S/65LED/B	600mm T8 wired for LED single lamp IP65	640x48x40
MG2T/65LED/B	600mm T8 wired for LED twin lamps IP65	640x48x40
MG4S/65LED/B	1200mm T8 wired for LED single lamp IP65	1240x48x40
MG4T/65LED/B	1200mm T8 wired for LED twin lamps IP65	1240x48x40
MG5S/65LED/B	1500mm T8 wired for LED single lamp IP65	1540x48x40
MG5T/65LED/B	1500mm T8 wired for LED twin lamp IP65	1540x48x40
MG6S/65LED/B	1800mm T8 wired for LED single lamp IP65	1840x48x40
MG6T/65LED/B	1800mm T8 wired for LED twin lamp IP65	1840x48x40

Add to end of product code	Application
SS/CLIPS	Stainless Steel Clips for 600-1500mm
SS/CLIPS/70	Stainless Steel Clips for 1800mm
SSCLIPS/LK	Lockable Stainless Steel Clips for 600-1500mm



## LED Batten Two



A highly efficient batten with integrated LED boards ideally suited for commercial applications for example warehousing.

- European Driver
- High quality sheet steel housing
- Polycarbonate opal cover
- IP20
- 5 year warranty
- 4000K as standard (3000K and 6000K option)

Product Code	Description	Wattage	Dimensions	Lumens
MGBAT2430	4ft Batten with LED strip and opal cover	30W	1167x62x72	3300lm
MGBAT2445	4ft Batten with LED strip and opal cover	45W	1167x62x72	4950lm
MGBAT2530	5ft Batten with LED strip and opal cover	30W	1467x62x72	3300lm
MGBAT2545	5ft Batten with LED strip and opal cover	45W	1467x62x72	4950lm
MGBAT2560	5ft Batten with LED strip and opal cover	60W	1467x62x72	6600lm
MGBAT2645	6ft Batten with LED strip and opal cover	45W	1732x62x72	5000lm
MGBAT2665	6ft Batten with LED strip and opal cover	65W	1732x62x72	7150lm

### Options

Add to product code	Description
/D	1-10V Dimming
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test 3 Hour Emergency

## LED Batten



A range of LED surface battens designed to accommodate T8 LED lamps. They are suitable for general lighting in commercial applications and public places

- High quality sheet steel powder coated housing
- IP20
- Emergency version available

Product Code	Description	Wattage	Dimensions	Lumens
MGBAT2S	2ft Single Batten with LED Lamps	1x9W	640x48x40	800lm
MGBAT2T	2ft Twin Batten with LED Lamps	2x9W	640x48x40	1600lm
MGBAT4S	4ft Single Batten with LED Lamps	1x18W	1240x48x40	1800lm
MGBAT4T	4ft Twin Batten with LED Lamps	2x18W	1240x48x40	3600lm
MGBAT5S	5ft Single Batten with LED Lamps	1x24W	1540x48x40	2300lm
MGBAT5T	5ft Twin Batten with LED Lamps	2x24W	1540x48x40	4600lm
MGBAT6S	6ft Single Batten with LED Lamps	1x28W	1840x48x40	2600lm
MGBAT6T	6ft Twin Batten with LED Lamps	2x28W	1840x48x40	5200lm

To order battens wired for single end LED lamps only add /B to product code.

### Accessories

Accessory	Add to product code
Diffuser for 4ft Single Batten	OP4 for Opal / PS4 for Prismatic
Diffuser for 4ft Twin Batten	TOP4 for Opal / TPS4 for Prismatic
Diffuser for 5ft Single Batten	OP5 for Opal / PS5 for Prismatic
Diffuser for 5ft Twin Batten	TOP5 for Opal / TPS5 for Prismatic
Diffuser for 6ft Single Batten	PS6 - Prismatic only
Diffuser for 6ft Twin Batten	TPS6 - Prismatic only
Polished aluminium reflector for 5ft Batten	PAR5
White powder coated reflector for 5ft Batten	WPC5
Polished aluminium reflector for 6ft Batten	PAR6
White powder coated reflector for 6ft Batten	WPC6

## LED Saturn



The Saturn is a high efficiency LED Luminaire designed to accommodate T8 LED Lamps and LED boards. They are suitable for general lighting in open plan offices, call centres, reception areas and back offices.

- 5 year driver warranty as standard on board versions. 2 year warranty on lamp versions.
- Board versions supplied with European driver
- IP20
- Complete with CAT2/LG3 Louvre

Product Code	Wattage	Dimensions	Light Source	Lumens
MGSTU20C2	20W	1233x211x71	LED	2100lm
MGSTU50C2	50W	1233x211x71	LED	4650lm
MGSTU30C2	30W	1533x211x71	LED	2900lm
MGSTU60C2	60W	1533x211x71	LED	5350lm
MGSTU35C2	35W	1833x211x71	LED	3100lm
MGSTU70C2	70W	1833x211x71	LED	6200lm
MGSTU220	2x18W	1233x211x71	T8 LED Lamp	3600lm
MGSTU225	2x24W	1533x211x71	T8 LED Lamp	4600lm
MGSTU230	2x28W	1833x211x71	T8 LED Lamp	5200lm
MGSTU20B	N/A	1233X211x71	Wired for single ended LED Lamps	N/A
MGSTU25B		1533X211x71	Wired for single ended LED Lamps	
MGSTU30B		1833X211x71	Wired for single ended LED Lamps	

### Options

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test



## LED Wave 54



A range of IP54 surface mounted linear fittings suitable for all retail and commercial lighting installations with an emphasis on care homes, classrooms, corridors, hospitals or office space.

- Complete with opal or prismatic polycarbonate diffuser
- High quality steel body, screw type end caps
- Supplied fitted European branded control gear
- IP54 Rated
- 5 year driver warranty as standard

Product Code	Wattage	Dimensions	Light Source	Lumens
MGLED5420	20W	1283x165x58	LED	2150lm
MGLED5430	30W	1283x165x58	LED	2500lm
MGLED5440	40W	1283x165x58	LED	4300lm
MGLED5460	60W	1283x165x58	LED	5000lm
MGLED54230	30W	1593x165x58	LED	2850lm
MGLED54260	60W	1593x165x58	LED	5700lm
MGLED54280	80W	1593x165x58	LED	6400lm
MGLED54250	50W	1883X162X71	LED	4750lm
MGLED542100	100W	1883X162X71	LED	9500lm
MGLED54118	18W	1283x165x58	T8 LED Lamp	1800lm
MGLED54218	2x18W	1283x165x58	T8 LED Lamp	3600lm
MGLED54124	24W	1593x165x58	T8 LED Lamp	2300lm
MGLED54224	2X24W	1593x165x58	T8 LED Lamp	4600lm
MGLED5428	28W	1883x162x71	T8 LED Lamp	2600lm
MGLED54228	2x28W	1883x162x71	T8 LED Lamp	5200lm

When ordering add PPR for prismatic diffuser or POP for opal diffuser

### Options

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test for 3 Hour Emergency

## LED Wave



The LED Wave fitting is a surface high efficiency luminaire with LED boards. They are suitable for general lighting in retail and commercial applications, in particular schools, colleges and hospitals.

### Specification

- Complete with opal polycarbonate or prismatic diffuser
- High quality steel body, screw type end caps
- Supplied fitted European branded control gear
- IP44 Rated
- 5 year driver warranty as standard

Product Code	Wattage	Dimensions	Lumens
MGLED20	20W	1210x208x70	1900lm
MGLED30	30W	1210x208x70	2850lm
MGLED220	40W	1210x208x70	3800lm
MGLED230	60W	1210x208x70	5700lm
MGLED30B	30W	1510x208x70	2850lm
MGLED60B	60W	1510x208x70	5700lm
MGLED80B	80W	1510X208X70	7600lm

When ordering add PPR for prismatic diffuser or POP for opal diffuser

### Options

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test for 3 Hour Emergency



## Linear Industrial LED Batten



### Specification:

- Rigid Steel Housing epoxy powder white
- Demountable aluminium front fascia assembly
- 60/90 degree optical lens control or D-shaped diffuser
- Tridonic Talexx linear LED boards and driver system
- System and efficacy of 125lm/w
- Ra 80+ colour rendering
- L70/B10 life rating over 50,000 hrs
- 5 year LED system warranty
- Optional dimming control via Dali
- Optional PIR or Microwave sensors
- IP20 Rated
- UK design and manufacture.

Product Code	MGLIL08	MGLIL16	MGLIL24
Wattage	57W	114W	188W
Lumens	8040	16080	24120
Colour Temperature	3000K, 4000K		
Ra (Colour Rendering)	Ra 80 Advance		

### Options

Diffuser	60 Degree Lens (60) 90 Degree Lens (90) Opal Diffuser (OD)
Sensor	Microwave (M) PIR Sensor (P)
Emergency	Emergency Pack (E) Self Test Emergency (SE)

## MGL07G



The MGL07G is easy to install and an economical replacement fitting. It is suitable for supermarkets, exhibition halls, bus stations, factories etc.

### **Specification**

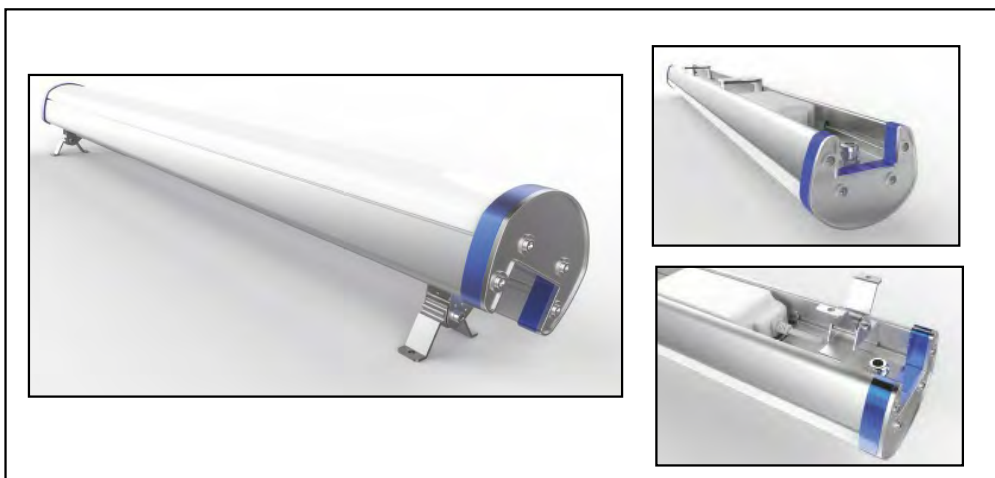
Product Code	MGL07G30	MGL07G40	MGL07G50	MGL07G65
Wattage	30W	40W	50W	65W
Length	900mm	1200mm	1500mm	1500mm
Lumens Frosted Cover	2850	3800	4750	6175
Lumens Clear Cover	3150	4200	5250	6825
CRI	>80			
CCT	3000k, 4000k, 5000k, 6000k			
Beam Angle	120°			

### **Emergency**

Wattage	7W
Duration	>3 Hours
Lumens Frosted Cover	665
Lumens Clear Cover	735

# Batten Lighting

## MGL20G



The MGL20G is easy to install and an economical replacement fitting. It is suitable for supermarkets, exhibition halls, bus stations, factories etc.

### Specification

Product code	L20G406	L20G609	L20G4012	L20G8012	L20G5015	L20G10015
Wattage	40W	60W	40W	80W	50W	100W
Length (mm)	600	900	1200	1200	1500	1500
Lumens - Frosted Cover	4400	6600	4400	8800	5500	11000
Lumens - Clear Cover	4800	7200	4800	9600	6000	12000
CCT	3000K, 4000K, 5000K, 6000K					
CRI	>80					
Beam Angle	120°					
IP Rating	IP44					
Installation	Ceiling or suspended mounting					

Lumens based on 110/120lm/w.

Higher lumen output version available add B to end of product code -130/140lm

### Options

Add to end of product code	Description
/DI	1-10V Dimmable
/DL	DALI Dimmable
/MS	Motion Sensor



## MGL21G



The MGL21G is easy to install and an economical replacement fitting. It is suitable for supermarkets, exhibition halls, bus stations, factories etc.

### Specification

- Designed for 2-15m application height
- 140/150 lumens per watt
- Adjustable installation angle
- Can be linkable

Product Code	MGL21G40	MGL21G40A	MGL21G50	MGL21G60	MGL21G60A	MGL21G80
Wattage	40W	40W	50W	60W	60W	80W
Length (mm)	600mm	1200mm	1200mm	1200mm	1500mm	1500mm
Lumens	5600	5600	7000	8400	8400	11200
CCT	3000K, 4000K, 5000K or 6000K					
CRI	80/90/95					
Beam Angle	120°					
IP Rating	IP65 IK08					
Installation	Ceiling/ Suspended					

### Options

Add to end of product code	Description
/DI	1-10V Dimmable
/DL	DALI Dimmable
/MS	Motion Sensor
/EM	Emergency

## NOVOLED

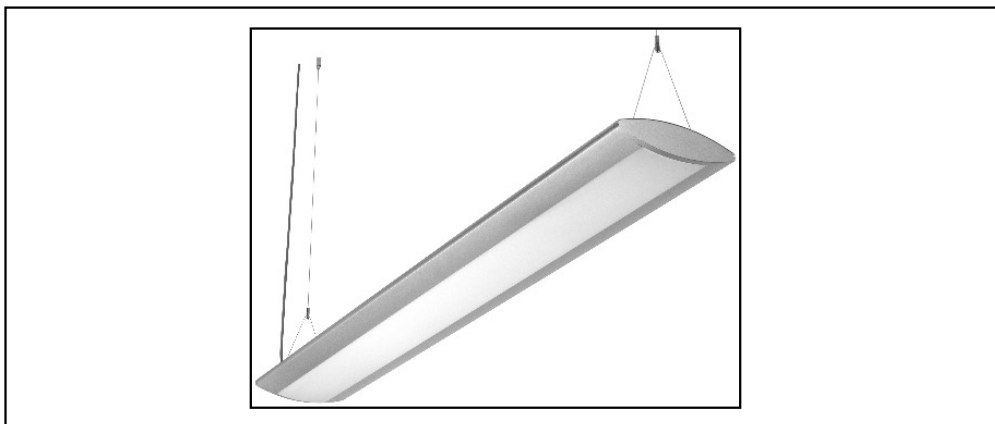


The Novoled range of LED battens feature the latest high efficiency LED chips which can achieve savings of up to 75% for a period of up to 50,000 hrs, eliminating costly lamp replacements.

### Specification

Product Code	MGNVB112	MGNVB212	MGNVB124	MGNVB224	MGNVB140	MGNVB240
Wattage	1x12W	2x12W	1x24W	2x24W	1x40W	2x40W
Lumens	1020lm	2040lm	2040lm	4080lm	3400lm	6800lm
Dimensions (mm)	55x83x620	102x83x620	55x83x1128	102x83x1128	55x83x1528	55x83x1528
CCT	6000K / 4000K					
CRI	>75Ra					
Beam Angle	120°					
Voltage	220-240V AC					
Working Temperature	-20°C to +30°C					
Power Factor	0.9					
IP Rating	IP20					

## Saturn Two



The Saturn Two is a suspended linear fitting with LED boards with direct/indirect backlit light diffusion. They offer an elegant and modern design suitable for use in all retail and commercial lighting installations specifically open plan offices, retail space, halls and reception areas.

- High quality aluminium alloy body with white finish
- European driver
- Complete with suspension kit as standard
- 5 Year driver warranty
- IP Rating 20

Product Code	Wattage	Dimensions	Lumens	Cover Type
MGSTUDID35	35W	1465x235x65	3250lm	Opal
MGSTUDID75	75W	1515x245x65	6530lm	Opal
MGSTUDID60	60W	1600x200x31	6600lm	Opal
MGSTUDIDL60	60W	1600x200x31	6000lm	Opal

### Options

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/EM	3 Hour Emergency
/ST	Self Test 3 Hour Emergency

## Saturn Three



The Saturn Three is a surface mounted IP65 modular fittings with LED boards. They are suitable for use in all commercial lighting installations especially clean rooms, laboratories, hospitals and pool areas.

- High quality steel body
- European driver
- Prismatic or opal diffuser.
- 5 Year driver warranty
- IP Rating 65
- 4000-4200K as standard (3000-3200K and 6000-6500K option)

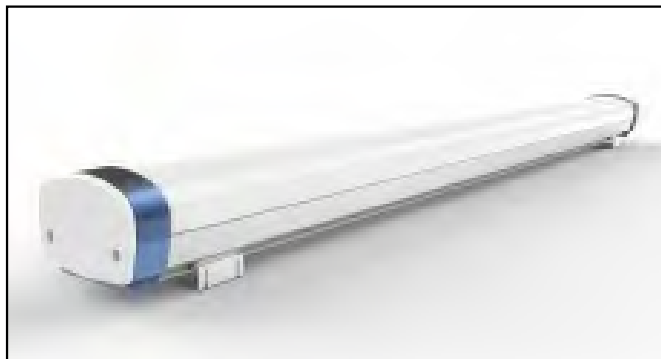
Product Code	Wattage	Dimensions	Lumens	Cover Type
MGSTU340PR	40W	1195x295x80	4250lm	Prismatic
MGSTU3100PR	100W	1195x295x80	9300lm	Prismatic
MGSTU3630PR	30W	595x595x80	3200lm	Prismatic
MGSTU3640PR	40W	595x595x80	4250lm	Prismatic
MGSTU3660PR	60W	595x595x80	6050lm	Prismatic
MGSTU3680PR	80W	595x595x80	8050lm	Prismatic
MGSTU340OP	40W	1195x295x80	4250lm	Opal
MGSTU3100OP	100W	1195x295x80	9300lm	Opal
MGSTU3630OP	30W	595x595x80	3200lm	Opal
MGSTU3640OP	40W	595x595x80	4250lm	Opal
MGSTU3660OP	60W	595x595x80	6050lm	Opal
MGSTU3680OP	80W	595x595x80	8050lm	Opal

### Options

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/EM	3 Hour Emergency
/ST	Self Test 3 Hour Emergency
/MS	In built Microwave Sensor



## The Tri-proof



The Tri-proof fitting is an ideal option for use in supermarkets, exhibition halls, warehouses, factories, bus/train stations.

### Features:

- Unique light distribution design for improved optical performance
- Adjustable installation angle to alter the direction of the light
- Can be linked together
- Recommended mounting height 3-8M

### Specification:

Product Code	MGTRP20	MGTRP40	MGTRP50	MGTRP65
Wattage	20W	40W	50W	65W
Lumens (based on 120lm/W 4000K)	2400lm	4800lm	6000lm	7800lm
Length	600mm	1200mm	1500mm	1500mm
Light Efficiency	120lm/W (150lm/W optional)			
Cover	Clear/ Frosted (10l/w less than clear)			
Colour Temperature	3000K, 4000K, 5000K, 6000K			
CRI Range	80, 90, 95			
Input Voltage	AC100-240V 50/60Hz			
Operating Temperature	-20C° to +40°C			
Power Factor	≥0.93			
Beam Angle	120°			
IP Rating	IP65			
Optional Extras	Dimmable/ Emergency/ Sensor			
Mounting Options	Ceiling mounted/ Suspended			

Add A to end of product code for 120lm/w version

Add B to end of product code for 150lm/w version

## Tri-proof M60



The M60 Tri-proof fitting is ideal for use in refrigeration rooms, pools and the food industry.

### Features:

- IP67 Rated
- IK08 rating indicates excellent resistance to external impacts
- Can be linked

### Specification:

Product Code	MGTPM6020	MGTPM6036	MGTPM6048
Wattage	20W	36W	48W
Lumens (based on clear cover 130Lm/W)	2600lm	4680lm	6240lm
Length	600mm	1200mm	1500mm
Lumen Efficiency	130Lm/W, 160Lm/W		
Cover Options	Clear/ Frosted (Frosted cover 10Lm/W less)		
Colour Temperature	3000K, 4000K, 5000K, 6000K		
CRI Options	80, 90,95		
Input Voltage	AC100-240V 50/60Hz		
Beam Angle	120°		
Operating Temperature	-20°C to +40°C		
Options	Dimmable, Emergency, Sensor		
Recommended Installation Height	3-8M		
Installation	Ceiling Mounted/ Suspended		

## Tri-proof M61



The M61 Tri-proof fitting is ideal for use in refrigeration rooms, pools and the food industry.

### Features:

- IP67 Rated
- IK08 rating indicates excellent resistance to external impacts
- Can be linked

### Specification:

Product Code	MGTPM6120	MGTPM6140	MGTPM6150	MGTPM6150A	MGTPM6160
Wattage	20W	40W	50W	50W	60W
Lumens (based on clear cover 130Lm/W)	2600lm	5200lm	6500lm	6500lm	7800lm
Length	600mm	1200mm	1200mm	1500mm	1500mm
Lumen Efficiency	130Lm/W, 160Lm/W				
Cover Options	Clear/ Frosted (Frosted cover 10Lm/W less)				
Colour Temperature	3000K, 4000K, 5000K, 6000K				
CRI Options	80, 90,95				
Input Voltage	AC100-240V 50/60Hz				
Beam Angle	120°				
Operating Temperature	-20°C to +40°C				
Options	Dimmable, Emergency, Sensor				
Recommended Installation Height	3-8M				
Installation	Ceiling Mounted/ Suspended				

Add A to end of product code for 130lm/w version  
Add B to end of product code for 160lm/w version

## Amenity Light

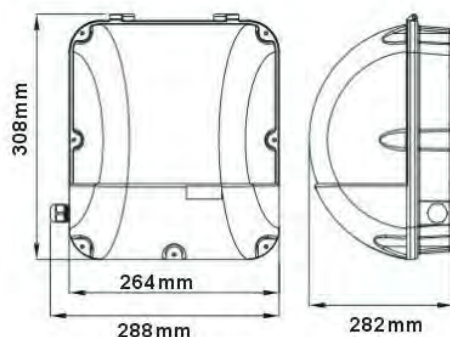


A robust LED wall mounted IP65 luminaire ideal for stairwells, building facades, car parks, pathways, garage forecourts.

### Specification

Product Code	MGAM30
Wattage	30W
Lumens	2600lm
CCT	6000K
Beam Angle	120°
Working Temperature	-20°C to +45°C
Housing	Die Cast Aluminium
Cover	Polycarbonate
IP Rating	IP65
Warranty	3 year

### Dimensions





## CB Bulkhead



The CB Bulkhead has a white base and opal cover and is the perfect solution where energy savings and aesthetics are required.

- 2 year warranty
- 4000-4200K as standard
- Metal base and PMMA cover

Product Code	MGCB25
Wattage	25W
Lumens	1700lm
Dimensions (mm)	370x120
Diffuser Type	Opal PMMA
CCT	4000-4200K as standard 3000-3200K and 6000-6500K available
IP Rating	IP20

### Options

Add to Product Code	Description
/EM	3 Hour Emergency

## Corona One



A range of highly efficient LED ceiling or wall mounted circular bulkheads suitable for both indoor and outdoor use. The fittings are ideal for use in apartment blocks, bathrooms, bedrooms, corridors, hotels and all commercial or domestic applications.

- 5 year driver warranty
- European branded driver
- Polycarbonate base & polycarbonate diffuser
- Silicon gasket seal, moisture and dustproof up to IP66
- Wall/ceiling mounted stainless steel brackets for quick installation
- Complete with hinged geartray for easy installation
- Side cable entry

Product Code	MGCRBH12	MGCRBH18	MGCRBH24
Wattage	12W	18W	24W
Lumen Output	980lm	1475lm	1960lm
Dimensions (mm)	300x100	350x120	400x120
CCT Options	3000K, 4000K, 6000K		
Housing finish	Black or white		
Diffuser	Opal		
IP Rating	IP66		

When ordering add CCT eg. 3,4 or 6 and housing finish B or W to end of product code.

### Options

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and switch Dimmable
/DM	For Leading/trailing Edge Dimmable
/M3	Emergency 3hr
/MS	Microwave Sensor
/PC	Photocell
/ST	Self Test

## Corona Two



A range of highly efficient LED ceiling or wall mounted circular bulkheads suitable for both indoor and outdoor use. The fittings are ideal for use in apartment blocks, car parks and exterior wall areas.

- 5 year driver warranty
- European branded driver
- Diecast base & polycarbonate diffuser
- Silicon gasket seal, moisture and dustproof up to IP66
- Supplied with tamperproof screws
- 4000K-4200K as standard.

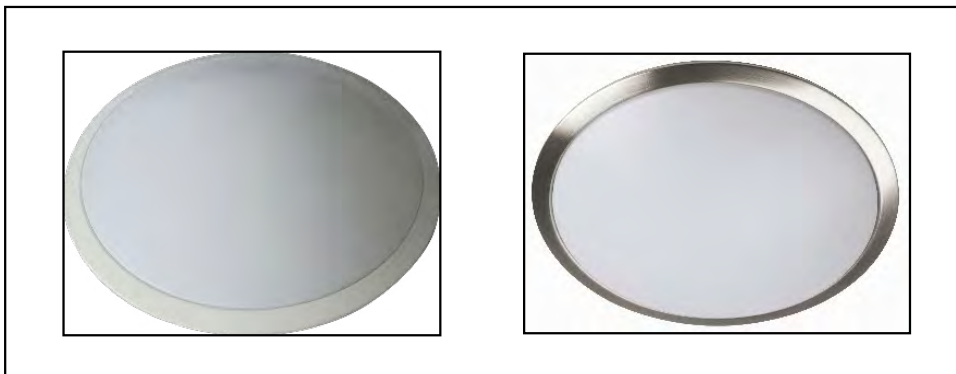
Product Code	MGCR2BH14	MGCR2BH20	MGCR2BH30
Wattage	14W	20W	30W
Lumen Output	1200lm	1900lm	2900lm
Dimensions (mm)	365x120		
CCT Options	4000K as standard, 3000K & 6000K option		
Housing finish	Black or grey		
Diffuser	Opal PC		
IP Rating	IP65		
Additional Options	Photocell or microwave sensor (PC or MS) Emergency M3 standard 3 hour ST self test 3 hour emergency		

When ordering add B or G for housing colour to end of product code and also additional options.

### **Dimmable Options**

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/DM	For Leading/trailing Edge Dimmable

## Corona Three



A range of highly efficient LED ceiling or wall mounted circular bulkheads suitable for indoor use. The fittings are ideal for use in apartment blocks, carehomes, corridors and hotels.

- 5 year driver warranty
- European branded driver
- Metal base & PMMA or glass diffuser
- 4000K-4200K as standard.
- IP40 and IP44

Product Code	Description	Wattage	Dimensions (mm)	Lumens
MGCR312	Satin Chrome Ceiling/wall light	12W	410x90	1200lm
MGCR320	Satin Chrome Ceiling/ wall light	20W	410x90	1900lm
MGCR330	Satin Chrome Ceiling/ wall light	30W	410x90	2900lm
MGCR339012	Satin Chrome/ White Ceiling/wall light	12W	390x100	1200lm
MGCR339020	Satin Chrome/ White Ceiling /wall light	20W	390x100	1900lm
MGCR342020	Satin Chrome/ White Ceiling/wall light	20W	420x100	2900lm
MGCR342030	Satin Chrome/ White Ceiling/wall light	30W	420x100	2900lm
MGCR334012	Satin Chrome ceiling/wall light with backlight	12W	340x100	1200lm
MGCR334020	Satin Chrome ceiling/wall light with backlight	20W	340x100	1900lm
MGCR340020	Satin Chrome ceiling/wall light with backlight	20W	400x100	1900lm
MGCR340030	Satin Chrome ceiling/wall light with backlight	30W	400x100	2900lm

### Options

Add W for White or SC for Satin Chrome after product code.

Add to Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/DM	For Leading/trailing edge Dimmable
/MS	Inbuilt Microwave Sensor
/CF	Corridor Function



## Helix Two



The Helix range of bulkheads are highly efficient, surface mounted and supplied with Triac dimming function as standard. They are suitable for use in stairwells, corridors and other commercial and retail applications.

- 3 year warranty driver
- 4000-4200K as standard
- Durable polycarbonate base and cover

Product Code	MGHLX212	MGHLX218	MGHLX225
Wattage	12W	18W	25W
Lumens	1100lm	1620lm	2150lm
Dimensions (mm)	200x48	300x40	300x40
Diffuser Type	Opal PC		
CCT	4000-4200K as standard 3000-3200K and 6000-6500K available		
IP Rating	IP54		

### Options

Add to Product Code	Description
/MS	Inbuilt Microwave Sensor
/CF	Corridor Function
/EM	Emergency (not suitable for use with central test system)

## Helix



The Helix range of bulkheads are highly efficient, surface mounted and supplied with Triac dimming function as standard. They are suitable for use in stairwells, corridors and other commercial and retail applications.

- 3 year warranty driver
- 4000-4200K as standard
- Durable polycarbonate base and cover

Product Code	MGHLX12	MGHLX18	MGHLX25
Wattage	12W	18W	25W
Lumens	1120lm	1615lm	2280lm
Dimensions (mm)	250x48	300x48	400x63
Diffuser Type	Opal PC		
CCT	4000-4200K as standard 3000-3200K and 6000-6500K available		
IP Rating	IP40		

## IP65 Square Bulkhead

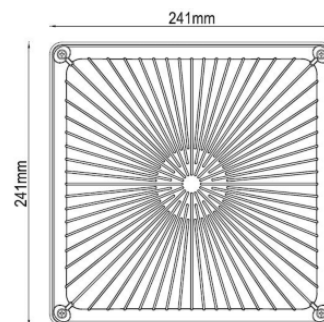
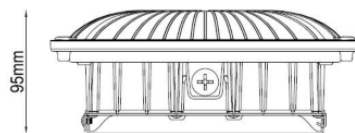


The square bulkhead fitting is suitable for service stations, underground parking, warehouses, factories and other applications.

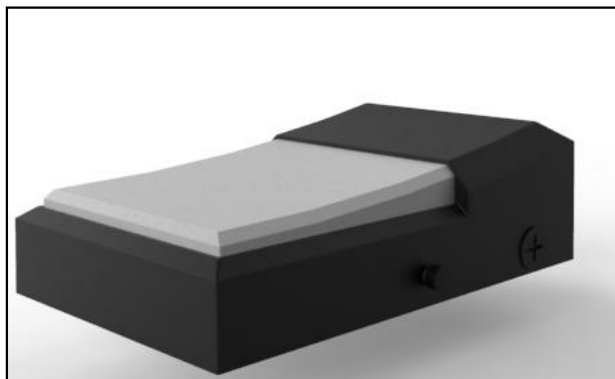
### Specification

Product Code	MG-SBH35W
Wattage	35W
CCT	2700K - 6500K
Lumens	3300-3700lm
Input Voltage	100-277AC 50/60Hz
Operating temperature	-20°°to +45°C Viewing
Angle	150°
LED Brand	Philips LUMILEDS
LED Type	LUXEON 3030 2D IP
Rating	IP65
Weight	2Kg
Housing	Aluminium
Colour	White
Cover	Striped Lens
Warranty	5 years

### Dimensions



## Mini Wall Pack

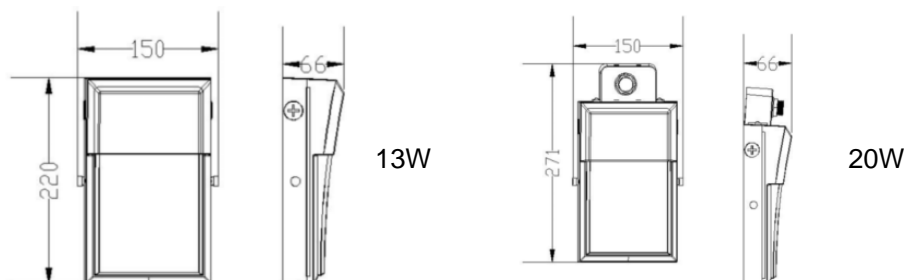


The new Mini Wall Pack is ideally suited for entrance lighting, courtyards, hotels and other external applications.

### Specification

Product Code	MG-MWP13W	MG-MWP20W
Wattage	13W	20W
Lumens	1000-1200lm	1600-1700lm
CCT	2700-6500K	
CRI	>80	
Viewing Angle	110°	
Input Voltage	100-277V AC 50/60Hz	
Power Factor	>0.88	
IP Rating	IP65	
Operating Temperature	-20°C to 45°C	
Optional Extra	Photocell	
Housing	Aluminium	
Housing Colour	Black	
Warranty	5 years	

### Dimensions





## Rotating Wall Pack 25W & 40W



The new rotatable led wall pack is ideal for lighting outdoor areas with pedestrian access and for buildings.

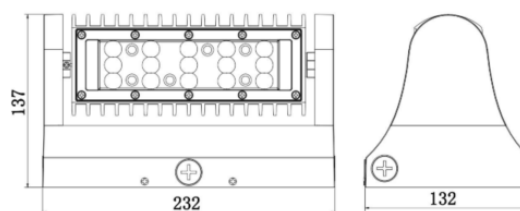
It has the following features:

- UL Certificate
- IP65 Internal Driver
- No UV or IR in the beam
- Easy to install and operate
- Instant start, no humming
- 5 year warranty

### Specification

Product Code	MGRTWP25	MGRTWP40
Wattage	25W	40W
Lumens	3000-3300lm	4800-5100lm
Dimensions	232x137x132mm	
CCT	4000-5700K	
CRI	>70	
Input Voltage	100-277AC 50/60Hz	
Viewing Angle	60°	
Operating Temp	-20°C to 45°C	
Housing	Aluminium	
Housing colour	Black	

### Dimensions



## Rotating Wall Pack 60W & 80W



The new rotatable led wall pack is ideal for lighting outdoor areas with pedestrian access and for buildings.

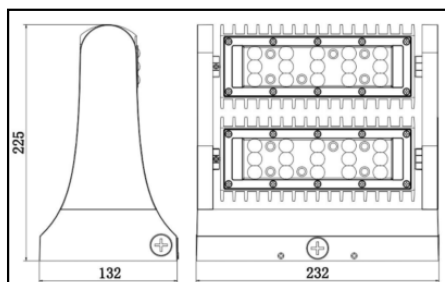
It has the following features:

- UL cUL Certificate
- IP65 Internal Driver
- No UV or IR in the beam
- Easy to install and operate
- Instant start, no humming
- 5 year warranty

### Specification

Product Code	MGRTWP60	MGRTWP80
Wattage	60W	80W
Lumens	7400-7700lm	9900-12000lm
Dimensions	232x225x132mm	
CCT	4000-5700K	
CRI	>70	
Input Voltage	100-277AC 50/60Hz	
Viewing Angle	60°	
Operating Temp	-20°C to 45°C	
Housing	Aluminium	
Housing colour	Black	

### Dimensions



## Solarlite



The Solarlite is ideal for driveways, gardens, commercial and residential applications.

### Features:

- Motion activated.
- 3 Lighting Modes
- Unique curved appearance. The fitting is compact, durable and easy to install.
- High quality monocrystalline silicon solar panel

Product Code	MGSL20	MGSL30
Power	2W	3.2W
Lumens	260lm	400lm
Dimensions	154x95x98mm	212x140x109
Battery	1200mAh/ 3.7V Lithium battery	2000mAh/ 3.7V Lithium battery
LED Type	SMD 2835 Front 12 pcs Back 2 pcs	SMD 2835 Front 28 pcs Back 2 pcs
PIR Sensing Range	Detection angle 120° Detection area 2-6m	
Beam Angle	120°x 60°	
Surface Colour	Black	
Charging time	5-6 Hrs/Day	

### Lighting Modes:

Mode A - Automatically turns on at dusk (<30lux) and remains 20% brightness for up 5 hours after which time it turns off.

Mode B - Automatically turns on to full brightness when motion is detected in the range 2-6 mtrs and then turns to 3% brightness in 20 seconds of no motion.

Mode C - Automatically turns on to full brightness when motion is detected in the range 2-6 mtrs and then turns off in 30 seconds of no motion.

To select lighting mode - press x1 for Mode A,  
press x2 for Mode B,  
press x3 for Mode C  
press x4 for off.

## Square Bulkhead



The Square Bulkhead is suitable for use in corridors, stairwells, office areas and other commercial and retail applications.

- 3 year warranty
- 4000-4200K as standard
- Durable polycarbonate base and cover

Product Code	MGSB12
Wattage	12W
Lumens	1100lm
Dimensions (mm)	250x250x50
Diffuser Type	Opal PC
CCT	4000-4200K as standard 3000-3200K and 6000-6500K available
IP Rating	IP54

### Options

Add to Product Code	Description
/MS	Inbuilt Microwave Sensor
/EM	3 Hour Emergency

## Wall Pack



60W & 80W



100W & 120W

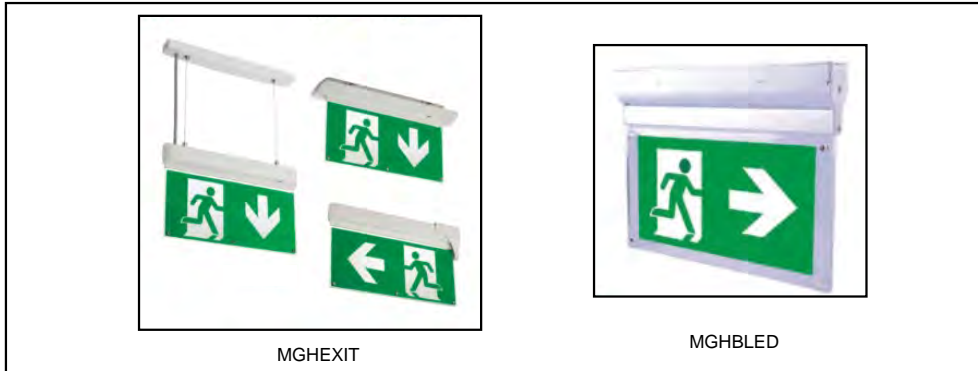
The Wall pack is suitable for lighting external buildings.

### Specification

Product Code	MGWP60W	MGWP80W	MGWP100W	MGWP120W
Wattage	60W	80W	100W	120W
Lumens	5200-5400	7100-7300	9100-9300	11800-13050
Dimensions	335x250x200mm		360x230x290mm	463x230x350mm
Colour Temperature	2700K - 8000K			
CRI	>80			
Input Voltage	100-240VAC 50/60Hz			
Power Factor	>0.9			
IP Rating	IP65			
Housing	Aluminium			
Housing colour	Black			
Cover	Transparent Striped Glass/ Transparent Glass			
Operating Temperature	-20°C to +45°C			
Warranty	5 years			



## Blade Lights



Suitable for interior use, these Blade lights are an economical way to provide additional emergency lighting.

- 3 year warranty
- Constructed with polycarbonate for strength
- High quality legend for maximum light output
- Supplied with Arrow down legend as standard
- Nicad Battery
- More than 3 hours emergency time once charged for 24 hours
- 6000k as standard
- Can be operated as non maintained/ maintained.

Product Code	MGHBLED	MGHEXIT
Wattage	4W	4W
Dimensions	307x35x230	350x40x212
IP Rating	IP20	IP20

### Accessories

Product code	Description
MGHBLED/L	Left legend for MGHLED
MGHBLED/R	Right legend for MGHLED
MGHBLED/D	Down legend for MGHLED
MGHBLED/U	Up legend for MGHLED

Product code	Description
MGHEXIT/L	Left legend for MGHEXIT
MGHEXIT/R	Right legend for MGHEXIT
MGHEXIT/D	Down legend for MGHEXIT
MGHEXIT/U	Up legend for MGHEXIT

## Emergency Bulkhead



MGHML



MGSHML

Maintained/Non-Maintained Slimline LED emergency bulkhead for use in general retail and commercial applications for emergency lighting requirements.

- 3 year warranty
- Constructed using polycarbonate base and covers with inbuilt UV filter to protect against discolouration over time.
- High quality diffuser for maximum light output
- Supplied with high brightness LED source
- Dual bulkhead can be operated as maintained or non-maintained
- More than 3 hours emergency time once charged for 24 hours
- Sticker legend included with MGHML as standard

Product Code	MGHML	MGSHML
Wattage	4W	3W
Dimensions	345x118x80	239x82x36
IP Rating	IP65	IP20
Input Voltage	220-240V 50Hz	
Recharging time	24 hours	
Accessories available	Recessing frame for MGSHML Sticker legend	

## Emergency Downlights



MGDLEP3W



MGEPACK4

Suitable for interior use, these non maintained emergency downlights are to be used as standalone units

### Specification

Product Code	MGDLEP3W	MGEPACK4
Description	Standalone recessed downlight prewired with test button	Standalone recessed downlight
Wattage	3W	2W
CCT	6000K	6000K
Dimensions (mm)	110x109	225x45x36
Head colour	PC White Head	White and Chrome Head
Warranty	3 years	3 years
IP Rating	IP20	

## Exit Boxes



MGEXITD



MGEXIT

Maintained/Non-Maintained LED emergency Exit boxes suitable for interior use to provide additional emergency lighting where required.

- 3 year warranty
- Constructed using metal powder coated base and polycarbonate covers with in-built UV filter to protect against discolouration over time.
- High quality legend for maximum light output.
- Supplied with Arrow up legend as standard
- More than 3 hours emergency time once charged for 24 hours
- 6000K as standard

Product Code	MGEXIT	MGEXITD
Wattage	4W	6W
Dimensions	392x190x60	420x220x65
IP Rating	IP20	IP20

### Accessories

Product Code	Description
LGDL	Left Legend
LGDR	Right Legend
LGDD	Down Legend
LGDU	Up Legend

# Emergency Lighting

## Tri-Proof Emergency



The Tri-proof Emergency fitting is ideal for use in supermarkets, exhibition halls, warehouses and factories where emergency lighting is required.

### **Specification:**

Product Code	MGETRP20	MGETRP40	MGETRP50	MGETRP65
Wattage	20W	40W	50W	65W
Lumens (based on 120lm/w 4000K)	2400lm	4800lm	6000lm	7800lm
Cover	Clear/Frosted (10l/w less with frosted cover)			
Colour Temperature	3000K, 4000K, 5000K, 6000K			
CRI Range	80, 90, 95			
Input Voltage	AC100-240V 50/60Hz			
Operating Temperature	-20°C to +40°C			
Power Factor	≥0.93			
Beam Angle	120°			
IP Rating	IP65			

### **Emergency Specification:**

Wattage	7W
Emergency	Standard 3 Hour
Lumens	735lm with clear cover 665lm with frosted cover



## Emergency Twin Spot



IP20



IP65

The Twinspots provide ideal emergency lighting solutions for both interior and exterior areas.

### **Specification**

Product Code	MGTWS20	MGTWS65
Wattage	6W	6W
CCT	6000K	6000K
IP Rating	IP20	IP65
Dimensions (mm)	270x70x290	280x130x300
Emergency	3 hours (once charged for 24 hours)	
Battery	Nicad	Nicad
Materials	Steel powder coated housing	Polycarbonate
Warranty	3 years	3 years

## Adjustable Flood Light

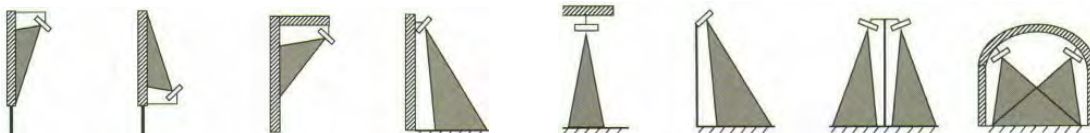


The Adjustable Flood is ideally suited for warehouses and sports fields as well as use on high masts.

### Specifications

Product Code	MGAF50W	MGAF100W	MGAF150W	MGAF200W	MGAF300W
Wattage	50W	100W	150W	200W	300W
Luminous Flux	6000lm	12000lm	18000lm	24000lm	36000lm
LED Quantity	72	144	216	288	432
Dimensions (mm)	242x102x169	242x221x247	242x340x247	419x221x247	425x340x247
Net Weight	2.1kg	3.2kg	4.1kg	5.5kg	8.4kg
Lamp Efficiency	120 lm/watt				
Beam Angle	30°/60°/110° (lens replaceable) & 135°x65°/15°				
LED Chip	Philips Lumileds				
Driver	MEANWELL				
CCT	2700-6500K				
CRI	>80				
Voltage	AC85-265V & DC24V				
Power Factor	>0.95				
Operating Temperature	-40°C to 60°C				
IP Grade	IP65				

### Installations



50W



100W



150W



200W



300W

## Amenity Light

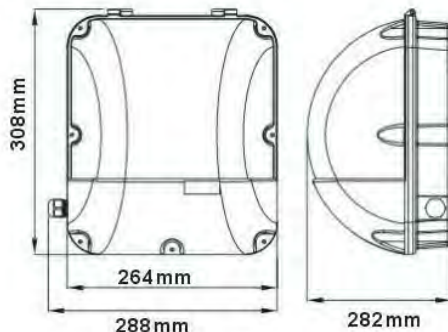


A robust LED wall mounted IP65 luminaire ideal for stairwells, building facades, car parks, pathways, garage forecourts.

### Specification

Product Code	MGAM30
Wattage	30W
Lumens	3000lm
CCT	6000K
Beam Angle	120°
Working Temperature	-20°C to +45°C
Housing	Die Cast Aluminium
Cover	Polycarbonate
IP Rating	IP65
Warranty	3 year

### Dimensions



## Canopy 3 150W

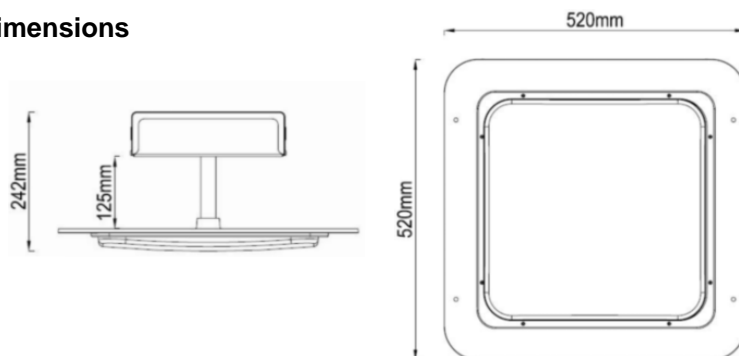


The canopy light is ideally suited to petrol station forecourts, underground parking , garages and other similar applications.

### Specification

Product Code	MGCNPL3150W
Wattage	150W
Lumens	21,000-23,500
Dimensions	520x520x242mm
Colour Temperature	4000K, 4500K, 5000K, 5700K
CRI	>80
Viewing Angle	110°
Input Voltage	100-240VAC 50/60Hz
Power Factor	>0.9
IP Rating	IP65
Housing	Aluminium
Housing colour	White
Cover	Frosted Lens
Operating Temperature	-20°C to +45°C
Warranty	5 years

### Dimensions



Canopy Light 45W & 75W

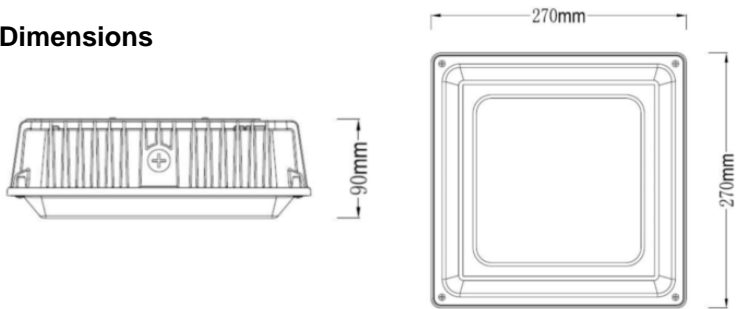


The canopy light is ideally suited to petrol station forecourts, underground parking , garages and other similar applications.

Specification

Product Code	MGCNPL45W	MGCNPL75W
Wattage	45W	75W
Lumens	4500-5500	7500-8600
Dimensions	270x270x90mm	
Colour Temperature	2700 - 7000K	
CRI	>80	
Viewing Angle	120°	
Input Voltage	100-240VAC 50/60Hz	
Power Factor	>0.9	
IP Rating	IP65	
Housing	Aluminium	
Housing colour	White	
Operating Temperature	-20°C to +45°C	
Warranty	3 years	

Dimensions





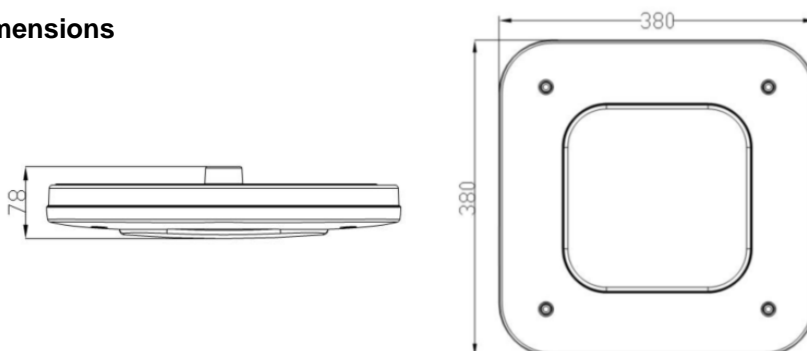
## Canopy Light 100W, 130W & 150W



The canopy light is ideally suited to petrol station forecourts, underground parking , garages and other similar applications. Specification

Product Code	MGCNPL100W	MGCNPL130W	MGCNPL150W
Wattage	100W	130W	150W
Lumens	10,000-11,000	13,000-14,300	15,000-16,500
Dimensions	380X380X78mm		
Colour Temperature	4000K, 5000K, 5700K		
CRI	>70		
Viewing Angle	110°		
Input Voltage	100-240VAC 50/60Hz		
Power Factor	>0.9		
IP Rating	IP65		
Housing	Aluminium		
Housing colour	White		
Operating Temperature	-20°C to +45°C		
Warranty	3 years		

### Dimensions



## Canopy Light



Featuring Smart DIM technology our LED canopy light is ideal for petrol stations and car parks.

This smart canopy light will automatically dim to a pre-set level on no activity. The pre-set levels can be programmed from 10-90% output. When activated the canopy light operates at full output whilst people or vehicles are present. When the vehicle leaves the canopy light will remain at full output for the programmed time (10 seconds to 30 minutes).

The fitting can be surface mounted or recessed mounted as required.

### Specification

Product Code	MGCL80WRM	MGCL100WRM	MGCL120WRM	MGCL150WRM
Power	80W	100W	120W	150W
Luminous Flux	6000-7200	8000-9500	10000-11000	12000-14000
Power Factor	>0.95			
Input Voltage	90-295V AC (47-63Hz)			
Power Efficiency	>90%			
CRI	>80			
Luminous Efficiency	90 lm/W			
Luminous Uniformity	>0.6			
Beam Angle	90 degree standard (60 and 120 degree available on request)			
Colour Temperature	4000-4500K and 6000-6500K			
Lifespan	50,000 Hours			
IP Rating	IP66			
Working Temperature	-30°C to +50°C			
Material	Aluminium Alloy and Tempered Glass			
Weight	10Kg	10Kg	10Kg	10.5Kg
Dimensions	343 x 343 x 140mm			

## Coolfin LED Flood Light



Our Coolfin high powered flood light is specifically designed to stay cool, therefore ensuring a long and productive life. This is down to it's unique heat dissipation fins situated on the back of the fitting

The Coolfin uses 2<sup>nd</sup> generation SMD technology. This enables wider beam angles to be achieved making them less directional than other types of diodes which require an epoxy coating to focus the light.

SMD configuration is simpler making them more reliable giving up to 50,000 hours lamp life.

Product Code	Wattage	Lumens	Dimensions (mm) L x W x H
MG-CLF-10	10W	1000	158 X 132 X 53
MG-CLF-20	20W	2000	203 X 176 X 64
MG-CLF-30	30W	3000	219 X 191 X 64
MG-CLF-50	50W	5000	281 X 220 X 117
MG-CLF-70	70W	7000	281 X 220 X 117
MG-CLF-80	80W	8000	281 X 220 X 117
MG-CLF-100	100W	10,000	309 X 267 X 182
MG-CLF-120	120W	12,000	309 X 267 X 182
MG-CLF-150	150W	15,000	364 X 298 X 186
MG-CLF-200	200W	20,000	464 X 344 X 196

Colour Temperature	6000K (3000K and 4000K available to order)
CRI	Ra>80
Beam Angle	110°
Working Temperature	-20°C to +40°C
Power Factor	0.9
Warranty	3 Years
IP Rating	IP65

Flat Top Lantern

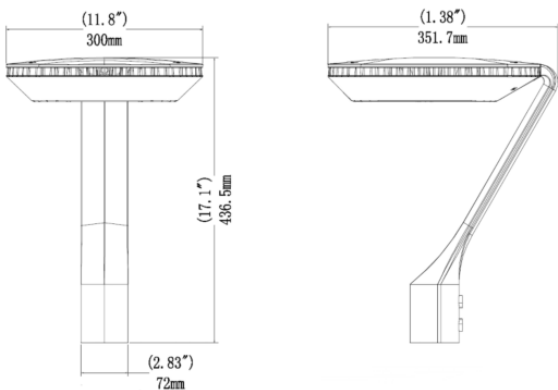


The Flat Top Lantern is ideal for car parks, hotels, parks, courtyards and other similar applications.

Specification:

Product Code	MGFT20W	MGFT35W	MGFT50W	MGFT100W
Wattage	20W	35W	50W	100W
Lumans	1800-2300lm	3500-4200lm	4800-6000lm	11000-12000lm
CCT	3000K - 7000K			
CRI	>0.70			
Input Voltage	AC100-260V / 277V/ 305V			
Beam Angle	100° x 140°			
Dimensions	352x300x437mm			
IP Rating	IP65			
Warranty	5 years			

Dimensions



Hercules Projector

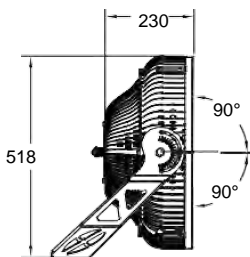
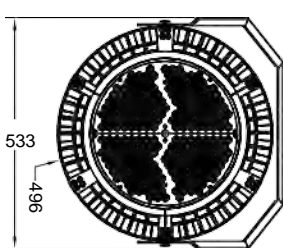
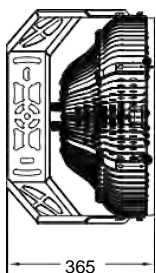


The Hercules Projector is ideally suited for mounting on highmasts or lighting towers. The custom designed optics offer a variety of specialised beam patterns for optimum performance in an sports lighting application.

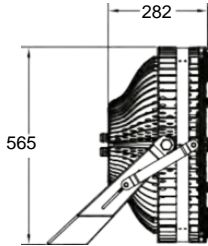
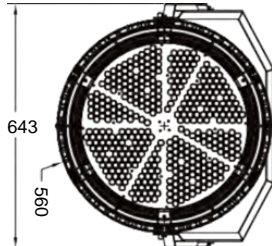
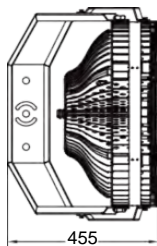
Specification

Product Code	MGHCP400	MGHCP600	MGHCP800	MGHCP1000
Wattage	400W	600W	800W	1000W
Lumens	41000lm	60500lm	81000lm	105,000lm
Weight	20Kg	20Kg	30Kg	30Kg
CCT	4000K, 5000K, 5700K			
Beam Angle	10°x10°, 15°x15°, 30°x30°, 60°x60°			
CRI	>70			
Input Voltage	AC90-305 50/60Hz			
Operating Temperature	-40°C to +50°C			

Dimensions

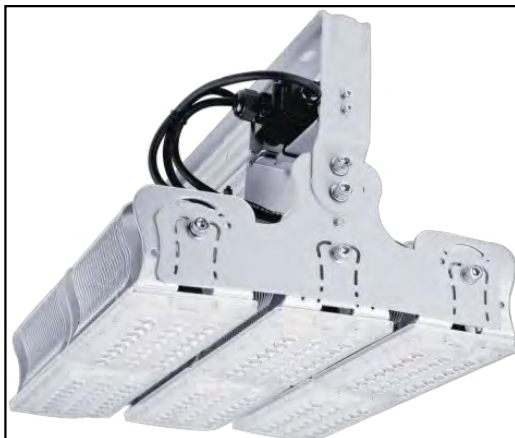


400W/600W



800W/1000W

## High Powered Adjustable Flood



The High Powered Adjustable Flood is ideally suited for warehouse, sports fields and other similar applications.

### Specification

Product Code	MGHPAF100W	MGHPAF200W	MGHPAF300W	MGHPAF400W	MGHPAF600W
Wattage	100W	200W	300W	400W	600W
Luminous Flux	14,000lm	28,000lm	42,000lm	56,000lm	84,000lm
LED Quantity	168	336	504	672	1008
Dimensions (mm)	226x183x102	230x242x194	340x242x194	422x243x221	422x243x336
Net Weight	2.8Kg	4.1Kg	5.6Kg	7.6Kg	10.5Kg
Lamp Efficiency	140Lm/W				
Beam Angle	30°/60°/120° (Replaceable Lens)				
LED Chip	Philip LUMILEDS				
Driver	MEANWELL				
CCT	2700-6500K				
CRI	>80				
Voltage	AC90-277V				
Power Factor	>0.95				
Operating Temperature	-40°C TO 60°C				
IP Grade	IP65				



## LED Bollard



These LED bollard fittings are ideal for illuminating pathways and patios.

- Diecast aluminium housing and polycarbonate diffusers
- Supplied as 4000K as standard
- 3 year driver warranty
- IP65 Rating

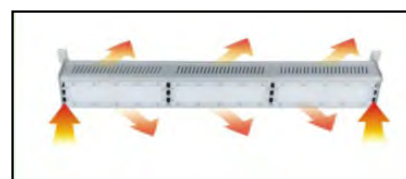
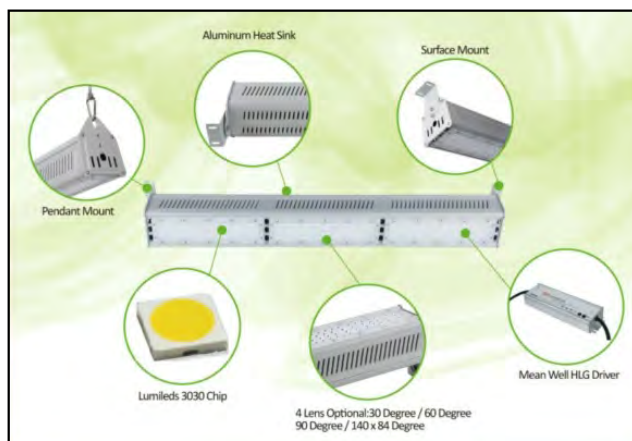
Product Code	Wattage	Dimensions (mm)	Diffuser	Lumen
MGLBED15W	15W	750X142	Opal PC	1400lm

## Linear Wall Wash



### Specification

Product Code	MGLWW50W	MGLWW100W	MGLWW150W	MGLWW200W	MGLWW240W
Wattage	50W	100W	150W	200W	240W
Lumens	5500-6000	11000-12000	16500-18000	22000-24000	26400-28800
Dimensions mm	295x115x130	559x115x130	828x115x130	1098x115x130	1354x115x130
Dimming	N/A	N/A	N/A	1-10V	1-10V
Lumen Efficacy	105-110Lm/W				
LED Type	Philips 3030 LED Chips				
CRI	>80				
Beam Angle	90 degree/ 65*100 degree/ 70*135 degree				
IP Rating	IP66				
Warranty	5 year warranty				



## Mini Wall Pack

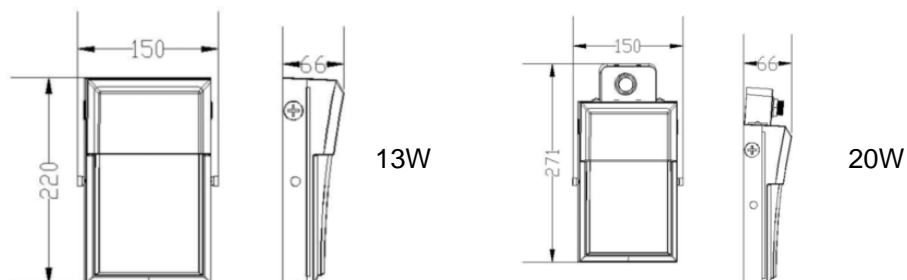


The new Mini Wall Pack is ideally suited for entrance lighting, courtyards, hotels and other external applications.

### Specification

Product Code	MG-MWP13W	MG-MWP20W
Wattage	13W	20W
Lumens	1000-1200lm	1600-1700lm
CCT	2700-6500K	
CRI	>80	
Viewing Angle	110°	
Input Voltage	100-277V AC 50/60Hz	
Power Factor	>0.88	
IP Rating	IP65	
Operating Temperature	-20°C to 45°C	
Optional Extra	Photocell	
Housing	Aluminium	
Housing Colour	Black	
Warranty	5 years	

### Dimensions



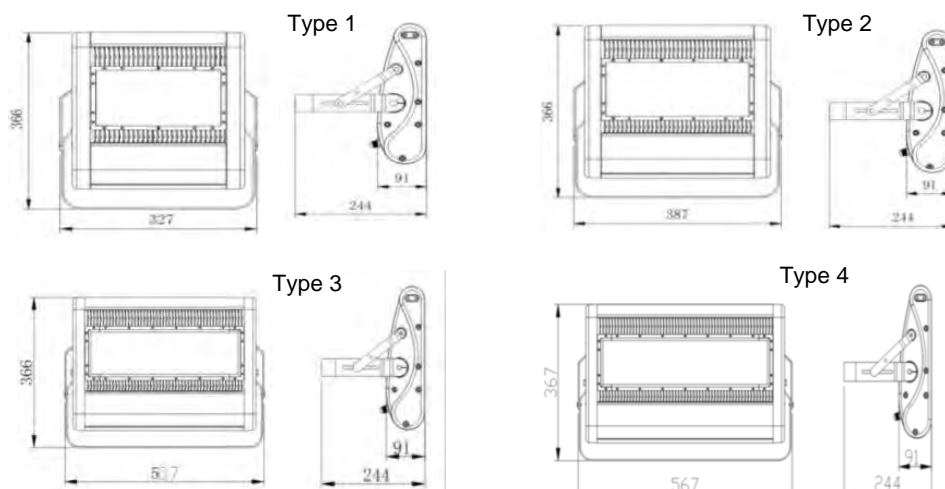
## Nexus Flood Light 60W-250W



The NEXUS Flood light is available in single colour and RGB colour changing versions. It is suitable for a wide range of commercial applications with high strength tempered glass, die cast aluminium housing and anti aging silicone rubber as sealing tape, all units are IP65 rated.

### Specification

Product Code	MGNX60	MGNX80	MGNX100	MGNX150	MGNX200	MGNX250
Wattage	60W	80W	100W	150W	200W	250W
Lumens	6000	8000	10000	15000	20000	25000
Type	1	1	2	3	3	4
CCT	4000K or 6000K					
Beam Angle	15°x15°, 30°x30°, 60°x60°, 60°x135° or 85°x135°					
Voltage	AC90-305V					
CRI	>70					
Operating Temperature	-40°C to +45°C					
Driver	Meanwell					
IP Rating	IP65					

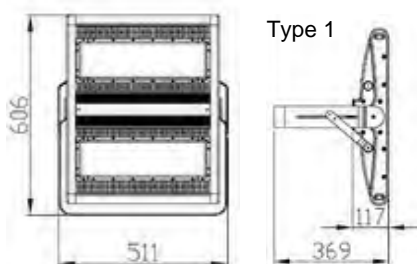


## Nexus Flood Light 300W-1000W

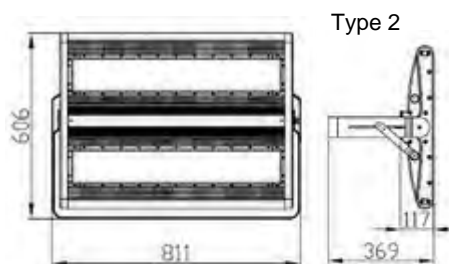


The NEXUS Flood light is available in single colour and RGB colour changing versions. It is suitable for a wide range of commercial applications with high strength tempered glass, die cast aluminium housing and anti aging silicone rubber as sealing tape, all units are IP65 rated.

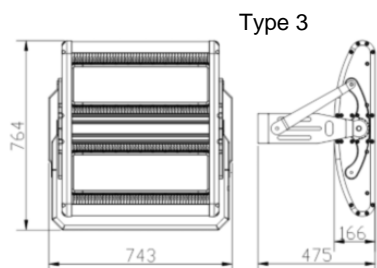
Product Code	MGNX300	MGNX350	MGNX400	MGNX500	MGNX600	MGNX800	MGNX1000
Wattage	300W	350W	400W	500W	600W	800W	1000W
Lumens (lm)	30,000	35,000	40,000	50,000	60,000	80,000	100,000
Type	1	1	1	2	2	3	4
Voltage	90-305V						
Beam Angles	15°x15°, 30°x30°, 60°x60°, 60°x135°, 85°x135° options						
CCT	4000K or 6000K						
CRI	>70						
Operating Temp	-40°C to +40°C						
Driver	Meanwell						



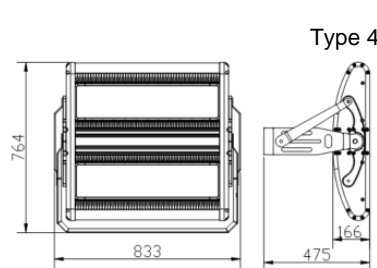
Type 1



Type 2



Type 3



Type 4

## Ornamental Lantern



The ornamental lantern can pole mounted or wall mounted making it ideal for parks, footpaths, car parks and other areas that require outdoor lighting but with the emphasis on aesthetics.

### Specification

Product Code	No. Of LEDS	MA	Wattage	Lumens for 4000-6500K	Lumens for 3000K
MGOL2012	12 LED	500 mA	20W (sys)	2900 lm	2500 lm
MGOL2412		600 mA	24W (sys)	3400 lm	2950 lm
MGOL2712		700 mA	27W (sys)	3900 lm	3350 lm
MGOL3112		800 mA	31W (sys)	4350 lm	3750 lm
MGOL3512		900 mA	35W (sys)	4750 lm	4100 lm
MGOL4012		1000 mA	40W (sys)	5150 lm	4450 lm
MGOL4524	24 LED	600 mA	45W (sys)	6700 lm	5800 lm
MGOL5324		700 mA	53W (sys)	7600 lm	6600 lm
MGOL6024		800 mA	60W (sys)	8500 lm	7350 lm
MGOL6824		900 mA	68W (sys)	9300 lm	8050 lm
MGOL7624		1000 mA	76W (sys)	10100lm	8700 lm

Power Factor	≥0.92
LED Type	CREE XPL
CCT	4000K (different on request)
CRI	≥70
Number of LEDS	12 or 24
Input voltage	220V to 240V
Protection Class	Safety Class 1
Overvoltage surge protection	6/8 KV
Type of Regulation	Autonomous or no dimming
Mounting	Top or Side pole mount
Bracket Diameter	42-60mm (76mm upon request)
Warranty	5 years (10 years on approval)



For full specification please see download on website [www.mglites.com](http://www.mglites.com)



## Post Top Lantern



The Post Top lantern is ideally suited for pedestrian walkways, hotels, courtyards, car parks and other similar applications.

### Specification

Product Code	MGPS50W	MGPS100W	MGPS150W	MGPS200W	MGPS300W
Wattage	50W	100W	150W	200W	300W
Lumens	4800-6000lm	11000-12000lm	16500-18000lm	19500-23000lm	28500-34500lm
Dimensions	558x400x558mm				
CCT	3000K to 7000K				
Input Voltage	AC100-277V				
Power Factor	>0.93				
CRI	>70				
Driver	MEANWELL				
IP Rating	IP65				

## Projector Light



The new projector light is ideal for high mast golf driving ranges due to the large selection of the beam angles and other similar applications.

### Specification

Product Code	MGPL100W	MGPL150W	MGPL200W	MGPL250W	MGPL500W
Wattage	100W	150W	200W	250W	500W
Lumens	10000lm	15000lm	20000lm	25000lm	50000lm
Beam Angles	5°, 10°, 20°, 30°, 60°				
CCT	3000K, 4000K, 6000K				
CRI	>80				
Power Factor	≥0.9				
Working Temperature	-25°C to +45°C				
Driver	Meanwell				
IP Rating	IP65				
Housing Options	Black or Silver				
Warranty	5 Years				

Note: When ordering please use product code followed by CCT/Beam Angle/ Housing

Eg. MGPL150W/3/20/B - 150W 3000K/20°/Black housing

## Roadstar 1



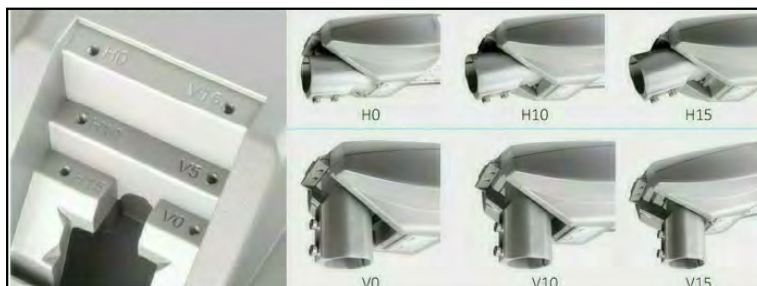
The Roadstar 1 street lighting is the perfect choice for low maintenance and up to 60% energy savings. The entire Roadstar series comes with Meanwell HLG, high quality driver which increases lamp stability, lifespan and performance.

It also contains Philips 2D 3030 LEDs, providing excellent lumen output, long lasting stability and high CRI >80.

### Specification

Product Code	MGRST150	MGRST1100	MGRST1150	MGRST1200	MGRST1240
Wattage	50W	100W	150W	200W	240W
Lumens	6250lm	12500lm	18750lm	25,000lm	30,000lm
Beam Angle	135°				
CCT	4000K standard (3000K or 6000K on request)				
CRI	>80Ra				
Voltage	100-240V				
Working Temperature	-20°C to +40°C				
Power Factor	0.95				
Driver	Meanwell				
Body Colour	Silver or Black				
Materials	Die Cast Aluminium				
IP Rating	IP65				
Warranty	5 years				

### Flexible Fixings



## Roadstar 1A



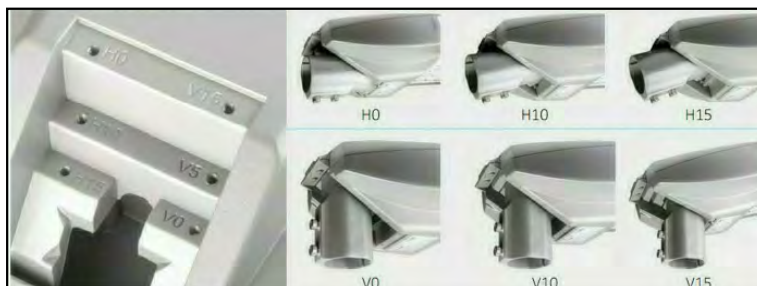
The Roadstar 1 street lighting is the perfect choice for low maintenance and up to 60% energy savings. The entire Roadstar series comes with Meanwell HLG, high quality driver which increases lamp stability, lifespan and performance.

It also contains Philips 2D 3030 LEDs, providing excellent lumen output, long lasting stability and high CRI >80.

### Specification

Product Code	MGRST160	MGRST1120	MGRST1180	MGRST1240A
Wattage	60W	120W	180W	240W
Lumens	7,200lm	14,400lm	21,600lm	28,800lm
Beam Angle	135°			
CCT	4000K standard (3000K or 6000K on request)			
CRI	>80Ra			
Voltage	100-240V			
Working Temperature	-20°C to +40°C			
Power Factor	0.95			
Driver	Meanwell			
Body Colour	Silver or Black			
Materials	Die Cast Aluminium			
IP Rating	IP65			
Warranty	5 years			

### Flexible Fixings



## Roadstar 2



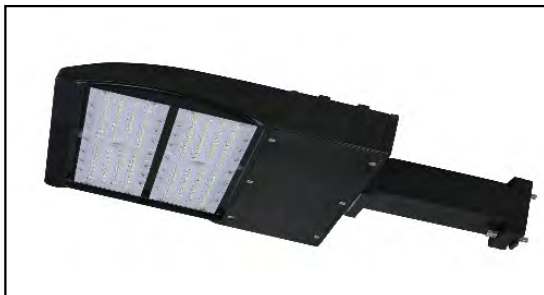
The Roadstar 2 features the latest most powerful Bridgelux chips and an ultra reliable Meanwell Driver for high output, low maintenance and up to 60% energy savings

### Specification

Product Code	Wattage	Lumens
MGRST240	40W	4000
MGRST250	50W	5000
MGRST280	80W	8000
MGRST2100	100W	10,000
MGRST2120	120W	12,000
MGRST2150	150W	15,000
MGRST2180	180W	18,000

CCT	4000K as standard (27K & 6K on request)
Beam Angle	120°
CRI	>80Ra
Voltage	AC90-260V
Working Temperature	-20°C to +45°C
Power Factor	0.95
IP Rating	IP65
Body Colour	Grey
Materials	Die Cast Aluminium
Warranty	3 years

## Roadstar 3 60W to 150W

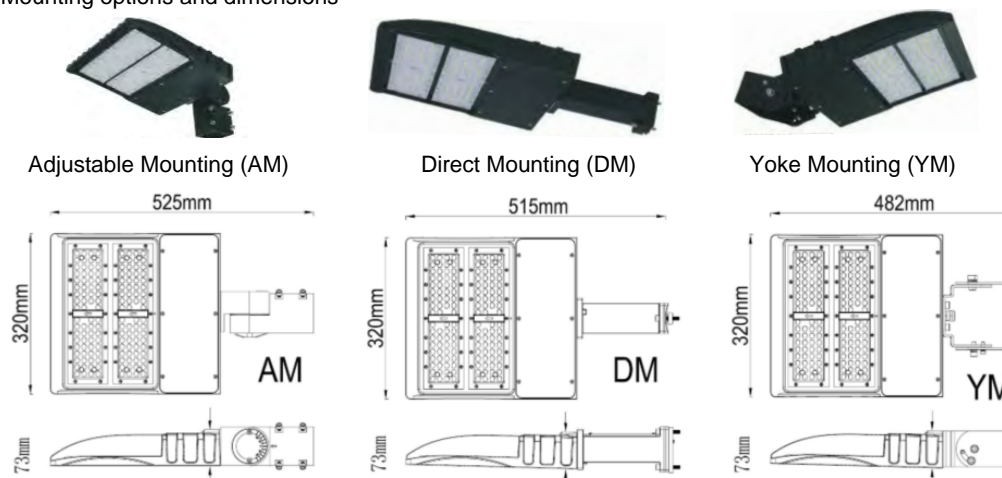


The new Roadstar 3 is the latest addition to our street light range. It is suitable for street lighting, courtyards, tennis courts and sports fields, school playgrounds and other similar applications

### Specification

Product Code	MGRST360W	MGRST390W	MGRST3120W	MGRST3150W
Wattage	60W	90W	120W	150W
Lumen	8000-8700lm	12000-13000	15000-16000	18000-19000
Standard Viewing Angle	150x85°			
Optional Viewing Angle	40°, 90° 150x75			
Input voltage	100-277V AC 50/60Hz			
Power Factor	>0.9			
IP Rating	IP65			
CRI	>70			
Operating Temperature	-20° to 45°C			
Housing	Aluminium			
Housing Colour	Black, Brown			
Mounting Options	Adjustable Mounting, Direct Mounting, Yoke Mounting			
Warranty	5 years			

Mounting options and dimensions





## Roadstar 3 185W to 300W



The new Roadstar 3 is the latest addition to our street light range. It is suitable for street lighting, courtyards, tennis courts and sports fields, school playgrounds and other similar applications

### Specification

Product Code	MGRST3185W	MGRST3240W	MGRST3300W
Wattage	185W	240W	300W
:Lumens	24000-27000	32000-34000	36000-41000
Viewing Angle	150*85 degree		
Optional Viewing Angle	40°, 60°, 90°, 150*75°		
Input Voltage	100-277V 50/60Hz		
Power Factor	≥90		
IP Rating	IP65		
CRI	≥.70		
Operating Temperature	-20°C to +45°C		
Housing	Aluminium Alloy		
Housing Colour	Black		
Mounting Options	Adjustable Mounting, Direct Mounting, Yoke Mounting		
Warranty	5 years		

### Mounting Options



Adjustable Mounting (AM)



Direct Mounting (DM)



Yoke Mounting (YM)

For dimensions please see data sheet on website

## Roadstar 4



The new Roadstar 4 is the latest addition to our street light range. It is suitable for street lighting, courtyards, school playgrounds and other similar applications

### Specification

Product Code	MGRST460W	MGRST4120W	MGRST4180W	MGRST4240W	MGRST4300W
Wattage	60W	120W	180W	240W	300W
Lumen	7,128lm	15,120lm	22,047lm	29,853lm	37,605lm
Modules	1	2	3	4	5
Viewing Angle	150x75°				
Input voltage	100-277V AC 50/60Hz				
Power Factor	>0.9				
IP Rating	IP65				
CRI	>70				
Driver	MEANWELL				
Operating Temperature	-20° to 45°C				
Housing	Aluminium				
Housing Colour	Silver				
Warranty	5 years				



For dimensions please see website

## Roadstar Evolution



The Roadstar Evolution uses high efficient Cree LEDs. The basic line uses XTE and the advanced XPL LED which gives even higher efficiency and better optical performance. These characteristics make it the ideal fitting for use in lighting public roads and streets, bicycle tracks, parking spaces and footpaths.

The Roadstar Evolution has the following features:

- **LED Secondary Optics**  
The lenses are made of highest grade PMMA with more than 90% light transmittance. They are UV and ozone resistant. We can fulfill the most requirements with different number and position of lenses.
- **Thermal Management**  
Thermal management of housing and LED boards enables sufficient heat dissipation so the LEDs and driver operate at a safe temperature to ensure a long life span. In case of over-heating the driver automatically reduces the current and protects the street lamp.
- **LED Driver**  
The driver is designed for a life time of 50,000 hours with the following options: DALI, 1-10V dimming or autonomous dimming system. There is also the option of NEMA socket with photocell.
- **Installation**  
The Evolution can be installed without any additional adapters on the pole or bracket. After the final installation you can change the angle of inclination from -15 deg up to +15 deg with a step of 5 degrees. Wires can be connected via push terminals.
- **Mechanical Construction**  
The streetlight is constructed of die casted and extruded aluminium. Casted parts are dust painted and thermally treated. Anodizing is minimum 20 micron on extruded parts. Housing ensure IK10 and IP66. All screws are made of stainless steel material.
- **Flexibility**  
Flexibility is one of the key advantages of the Evolution. The number of LED modules can be changed and the lenses positioned in 4 different directions.

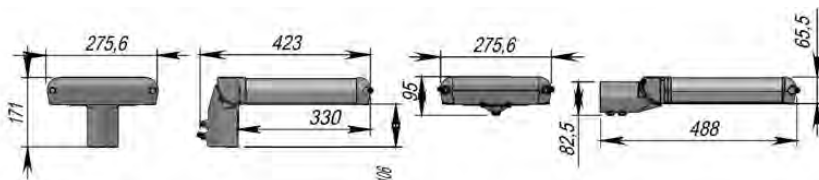
## XTE Range

Product Code	LED	Wattage	Lumens (lm)
MGRSTEV12	12 LED	15-22W	1850-2400
MGRSTEV24	24 LED	29-42W	3600-4700
MGRSTEV36	36 LED	42-60W	5200-6900
MGRSTEV48	48 LED	55-79W	7150-9450
MGRSTEV60	60 LED	67-97W	8850-11650
MGRSTEV72	72 LED	80-116W	10500-13850

## XPL Range

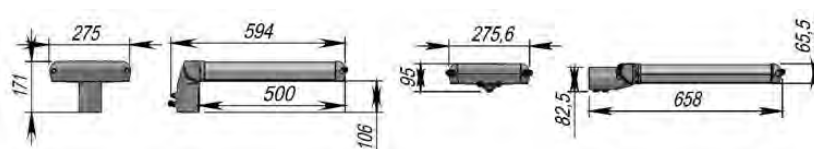
Product Code	LED	Wattage	Lumens (lm)
MGRSTEVX12	12 LED	20-41W	2900-5150
MGRSTEVX24	24 LED	45-76W	6700-10100
MGRSTEVX36	36 LED	77-112W	11450-15150
MGRSTEVX48	48 LED	116-147W	16600-19700
MGRSTEVX60	60 LED	146-175W	20300-23050

12, 24 or 36 LED lamp for XTE and 12 LED lamp for XPL



Gross weight: 5.8kg  
Net weight: 5 kg  
Wind area: 0,3m<sup>2</sup>

48, 60 or 72 LED lamp for XTE and 24, 36, and 72 LED lamp for XPL



Gross weight: 7.8kg  
Net weight: 7 kg  
Wind area: 0,35m<sup>2</sup>

## Rotating Wall Pack 25W & 40W



The new rotatable led wall pack is ideal for lighting outdoor areas with pedestrian access and for buildings.

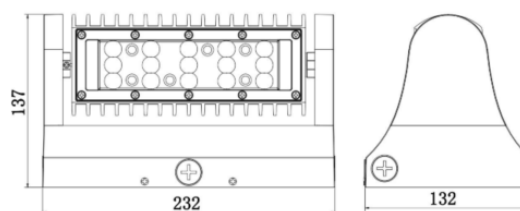
It has the following features:

- ULCertificate
- IP65 Internal Driver
- No UV or IR in the beam
- Easy to install and operate
- Instant start, no humming
- 5 year warranty

### Specification

Product Code	MGRTWP25	MGRTWP40
Wattage	25W	40W
Lumens	3000-3300lm	4800-5100lm
Dimensions	232x137x132mm	
CCT	4000-5700K	
CRI	>70	
Input Voltage	100-277AC 50/60Hz	
Viewing Angle	60°	
Operating Temp	-20°C to 45°C	
Housing	Aluminium	
Housing colour	Black	

### Dimensions



Rotating Wall Pack 60W & 80W



The new rotatable led wall pack is ideal for lighting outdoor areas with pedestrian access and for buildings.

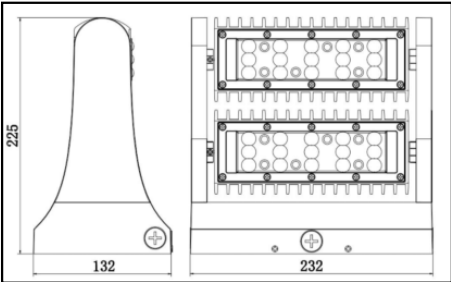
It has the following features:

- UL cUL Certificate
- IP65 Internal Driver
- No UV or IR in the beam
- Easy to install and operate
- Instant start, no humming
- 5 year warranty

Specification

Product Code	MGRTWP60	MGRTWP80
Wattage	60W	80W
Lumens	7400-7700lm	9900-12000lm
Dimensions	232x225x132mm	
CCT	4000-5700K	
CRI	>70	
Input Voltage	100-277AC 50/60Hz	
Viewing Angle	60°	
Operating Temp	-20°C to 45°C	
Housing	Aluminium	
Housing colour	Black	

Dimensions





## Solarlite



The Solarlite is ideal for driveways, gardens, commercial and residential applications.

### Features:

- Motion activated.
- 3 Lighting Modes
- Unique curved appearance. The fitting is compact, durable and easy to install.
- High quality monocrystalline silicon solar panel

Product Code	MGSL20	MGSL30
Power	2W	3.2W
Lumens	260lm	400lm
Dimensions	154x95x98mm	212x140x109
Battery	1200mAh/ 3.7V Lithium battery	2000mAh/ 3.7V Lithium battery
LED Type	SMD 2835 Front 12 pcs Back 2 pcs	SMD 2835 Front 28 pcs Back 2 pcs
PIR Sensing Range	Detection angle 120° Detection area 2-6m	
Beam Angle	120°x 60°	
Surface Colour	Black	
Charging time	5-6 Hrs/Day	

### Lighting Modes:

Mode A - Automatically turns on at dusk (<30lux) and remains 20% brightness for up 5 hours after which time it turns off.

Mode B - Automatically turns on to full brightness when motion is detected in the range 2-6 mtrs and then turns to 3% brightness in 20 seconds of no motion.

Mode C - Automatically turns on to full brightness when motion is detected in the range 2-6 mtrs and then turns off in 30 seconds of no motion.

To select lighting mode - press x1 for Mode A,  
press x2 for Mode B,  
press x3 for Mode C  
press x4 for off.

## Titan Projector

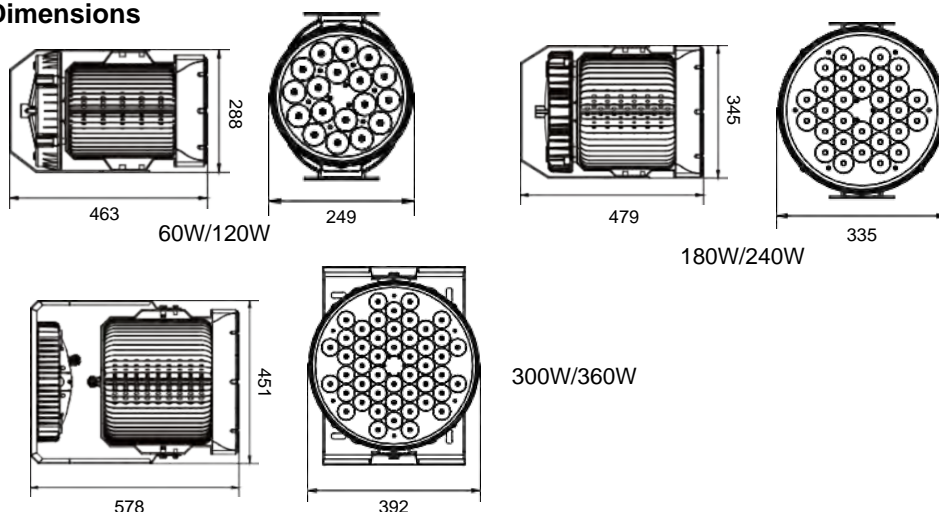


The Titan Projector is both powerful and compact and designed to provide the best illumination for the next generation of exterior architectural applications. A combination of proprietary thermal management technology, elegant aesthetics and precision optics makes this ideal for applications requiring high power concentrated beam patterns.

### Specification

Product Code	MGTP60	MGTP120	MGTP180	MGTP240	MGTP300	MGTP360
Wattage	60W	120W	180W	240W	300W	360W
Lumens	4800lm	8800lm	13600lm	17600lm	22400lm	26400lm
Weight	10Kg	10.5Kg	16Kg	16.5Kg	28Kg	29Kg
CCT	3000K - 7000K					
Beam Angle	5° (±2.5°)					
CRI	>70					
Input Voltage	AC90-305 50/60Hz					
Operating Temperature	-40°C to +50°C					
Housing colour	Black/ White/ Grey					
Option	RGBW					

### Dimensions



## Wall Pack



60W & 80W



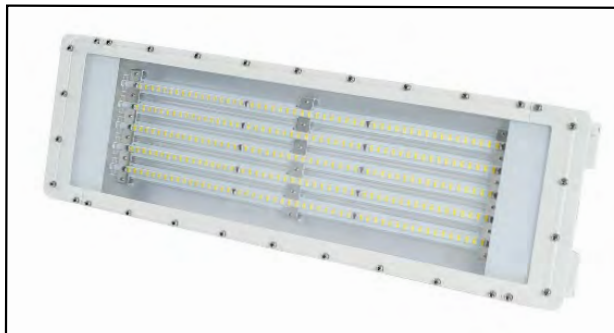
100W & 120W

The Wall pack is suitable for lighting external buildings.

### Specification

Product Code	MGWP60W	MGWP80W	MGWP100W	MGWP120W
Wattage	60W	80W	100W	120W
Lumens	5200-5400	7100-7300	9100-9300	11800-13050
Dimensions	335x250x200mm		360x230x290mm	463x230x350mm
Colour Temperature	2700K - 8000K			
CRI	>80			
Input Voltage	100-240VAC 50/60Hz			
Power Factor	>0.9			
IP Rating	IP65			
Housing	Aluminium			
Housing colour	Black			
Cover	Transparent Striped Glass/ Transparent Glass			
Operating Temperature	-20°C to +45°C			
Warranty	5 years			

## Aries Waterproof Linear Flatbay



The Flatbay series are a family of sleek, lightweight and efficient luminaires designed for light industrial facilities, warehouses, production areas and workshops.

### Key features:

- Special linear optical beam profile to maximise the use of light on the ground
- Designed with high quality polycarbonate cover and suspension clips
- Optional occupancy sensor or daylight sensor
- Light weight for easy installation
- Powder coated surface finishing available in various colours.

### Specification

Product Code	MGAR100	MGAR150	MGAR200
Wattage	110W	165W	220W
Luminous Flux	10,700	16,000	21,500
Beam Angles	115x110 / 30x110 / 40x110		
CCT	4000K, 5000K, 5700K		
Operating Temperature	-40°C TO +50°C		
CRI	70		
IP Rating	IP65		
Power Factor	0.9		
Options	Dimming / Sensor		
Dimensions	603x182x119mm		



## Flat High Bay

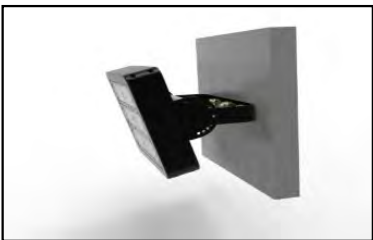


The new Flat High Bay fitting is available in a variety of wattages and 5 different beam angles making it suitable for a variety of applications.

### Specification:

Product code	MGFHB50	MGFHB100	MGFHB150	MGFHB200	MGFHB250
Wattage	50W	100W	150W	200W	250W
Lumens	6000	12,000	18,000	24,000	30,000
Colour Temperature	2700K-3200K, 4000-4500K, 5800-6500K				
Input Voltage	AC100-240V 50/60Hz				
Beam Angles	30° / 60° / 90° / 80x150° / 90x120°				
IP Rating	IP65				
Driver	Meanwell HLG-60H				
Warranty	5 years				

### Mounting



## Flobay LED High Bay



### Specification:

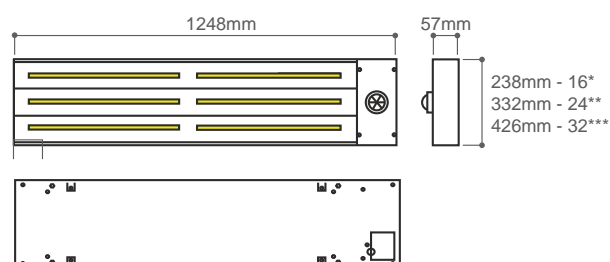
- Reflector system designed to facilitate mounting heights of 2.8 9m
- Tridonic TALEXX advanced LED modules and drivers.
- 5 year warranty
- Rigid body construction fabricated from corrosion resistant 2 intec steel, epoxy powder coated.
- Flexible easy install mounting.
- Integral emergency option available
- IP20 rated as standard, IP65 option available.
- PIR and microwave sensor
- UK design and manufacture

Product Code	MGFLB16	MGFLB24	MGFLB32
Drivers	Standard non dimmable (S) Dali (D) DSI (DS)		
Lumens	18000	27000	36000
Colour Temperature	3000K / 4000K		
RA	Ra 80 Advance		
Colour	White		

### Options:

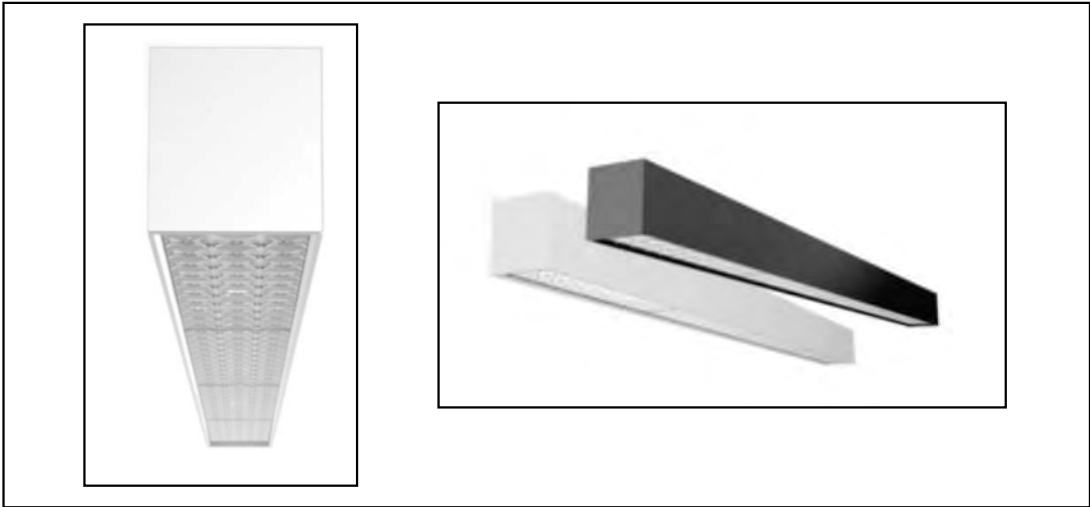
Diffuser	Clear Protective panel (CP) Wire Guard Frame (W) Clear Protective Panel & Wire Guard (CPW) IP65 Rated (65)
Sensor	Microwave (M) PIR3 All Height PIR sensor (PS)
Emergency	Emergency (E) Self Test Emergency (ST)

### Dimensions





LED Linear High Bay Light

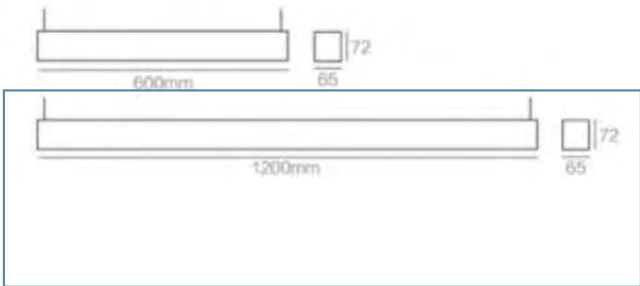


The LED Linear High Bay is suitable for warehouses, supermarkets, schools and colleges, retail and other similar applications.

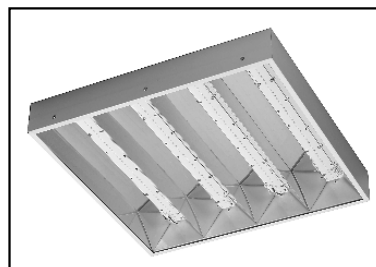
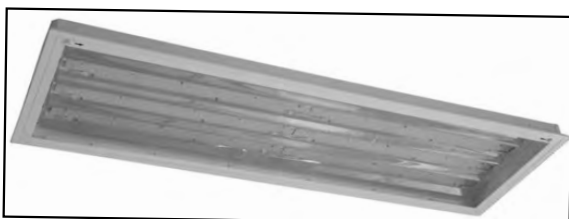
Specification

Product Code	MGLL40W4K
Wattage	40W
Lumens	4400lm
Beam Angle	30°/60°/90° asymmetric
Light Source	Bridgelux 2835
CCT	3000K / 4000K
CRI	>80
Voltage	220-240V 50-60Hz
Dimming	0-10V
Colour	White or Black
Materials	Gear Tray - Aluminium LENS plate - PMMA
Installation	Suspended or ceiling mounted

Dimensions



## LED Low Bay Two



The LED Low Bay Two are suitable for general lighting in retail and commercial applications.

### Specification

- Clear Cover supplied as standard
- 3 pole terminal block accessed via rear cable entry
- Supplied with European branded control gear
- 4000K supplied as standard. 6000K available by request
- IP40
- 5 year ballast warranty

Product Code	Description	Wattage	Dimensions	Diffuser Type	Lumens
MGLLB410	2ft Surface/suspended fixture	4x10W	597x597x85	Clear Acrylic	4300lm
MGLLB422	2ft Surface/suspended fixture	4x22W	597x597x85	Clear Acrylic	9200lm
MGLLB420	4ft Suspended fixture	4x20W	1250x400x100	Clear Acrylic	8400lm
MGLLB430	4ft Suspended fixture	4x30W	1250x400x100	Clear Acrylic	11600lm
MGLLB450	4ft Suspended fixture	4x50W	1250x400x100	Clear Acrylic	18640lm
MGLLB822	4ft Suspended fixture	8x22W	1250x400x100	Clear Acrylic	18400lm

### Options

Add to end of Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test 3 Hour Emergency
/SN	PIR
/MS	Microwave Sensor

## Lumina Low Bay



The new Canopy Two is suitable for factories, supermarkets, exhibition halls, garage forecourts and other similar applications.

Features include:

- Philips LUXEON 3030 2D chip with high CRI
- No UV or IR in the beam
- Easy to install and operate
- Light is soft and uniform
- Instant start, no flickering or humming
- MEANWELL Driver
- Available with long or short bracket
- 4 Different beam angles available

### Specification

Product Code	MG-LLB120W	MG-LLB150W	MG-LLB185W	MG-LLB240W	MG-LLB300W
Wattage	120W	150W	185W	240W	300W
Lumen	13000-15500	17000-21000	20000-24000	26000-32000	32000-40000
Viewing Angle	150x75°, 150x85°, 90°, 40°				
Input voltage	100-277V AC 50/60Hz				
Power Factor	>0.9				
IP Rating	IP65				
CRI	>70				
Driver	MEANWELL				
Operating Temperature	-20° to 45°C				
Housing	Aluminium				
Housing Colour	Silver				
Warranty	5 years				

### Dimensions

For dimensions of fittings please see data sheet on website.

Luna High Bay

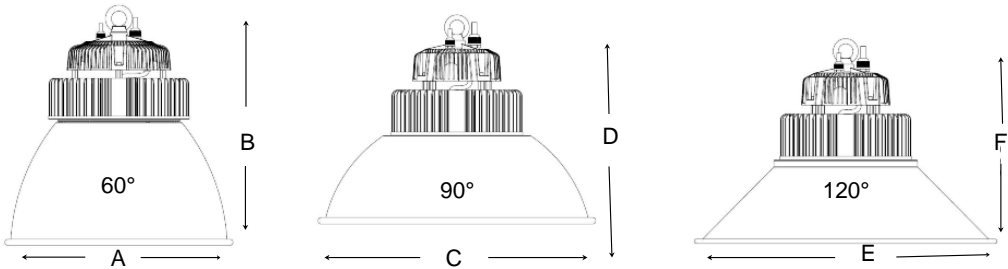


The Luna High Bay is the ideal fitting for factories, warehouses, exhibition halls and shopping centres.

Specification

Product Code	MGLH100W	MGLH150W	MGLH200W	MGLH240W
Wattage	100W	150W	200W	240W
Lumens	10500-12500	16500-19500	22000-25500	28000-30000
LED Chips	Philips 3030 SMD			
Driver	Meanwell			
CCT	3000K, 4000K, 5000K, 6000K			
Input Voltage	AC100-240V			
CRI	>80			
Ambient Temperature	-20°C to +45°C			
Beam Angle	60° / 90° / 120°			
Power Factor	0.9			
IP Rating	IP65			

Dimensions



Wattage	A	B	C	D	E	F
100W	Ø420	420	Ø465	340	Ø505	332
150W	Ø420	420	Ø465	340	Ø505	332
200W	Ø420	435	Ø465	355	Ø505	345
240W	Ø420	435	Ø465	355	Ø505	345

## Pegasus Linear Flatbay



The Flatbay series are a family of sleek, lightweight and efficient luminaires designed for light industrial facilities, warehouses, production areas and workshops. The powerful light output and precision optics make the flatbay perfectly suited for use in areas with high ceilings and are ideal for sports halls which require good light and minimum glare.

They are available in 1-10V or DALI dimming and are compatible with all leading sensor manufacturers. Flatbays typical energy savings are over 60% compared with traditional light fixtures and can be further improved with intelligent dimming.

Product Code	MGPG60	MGPG90	MGPG120	MGPG150	MGPG180	MGPG225	MGPG300
Wattage	66W	99W	132W	165W	198W	248W	330W
LED Power	60W	90W	120W	150W	180W	225W	300W
Luminous Flux	8,580lm	12,870lm	17,160lm	21,450lm	25,740lm	32,240lm	42,900lm
LED Quantity	120pcs	189pcs	240pcs	300pcs	360pcs	450pcs	600pcs
Light Source	Lumileds/Osram mid power LED						
Input Voltage	100-305AC 50/60Hz						
Luminaire Efficiency	130lm/w						
Power Factor	>0.90						
Ambient Temperature	-40°C to +40°C						
Dimmable	1-10V / DALI						
CCT	4000K, 5000K, 6500K						
CRI	>80						

### Beam Angles

NB	MB	WB	SA	DA	LA	DB
Normal 30°x30°	Medium 60°x60°	Wide 90°x90°	Single Asymmetric 25°	Double Asymmetric 30°x90°	Linear Asymmetric 130°x90°	Diffused 120°x120°

# Hi Low Bay

### Dimensions (mm)

60W 540x158x75


90W 800x158x75


120W 1060x158x75


150W 1060x242x75


180W 1320x158x75


225W 1320x242x75


300W 1320x316x75


### Accessories

#### Sensor Compatible

Bracket design can be custom made for different sensors

#### Mounting

Comes with hook suspension cords as standard. Surface mounting bracket available on request

#### Emergency

Built in emergency available upon request.





## Probay



The Probay is a versatile LED Low bay is an ideal replacement for inefficient technologies such as SON and metal halide.

The IP65 rating means it can be used for exterior areas where there is a risk of water ingress.

### Specification

- Meanwell driver and Philips LEDS as standard
- Tilttable mounting bracket
- High efficient 110lm per watt
- Lumen maintenance factor LM80 @ 50,000 hrs.

Product Code	MGPB65	MGPB90	MGPB120	MGPB150	MGPB180	MGPB210	MGPB240
Wattage	65W	90W	120W	150W	180W	210W	240W
Lumens	6000	8600	11200	14000	19800	21800	24200
CRI	>70Ra						
Voltage	85-265V AC						
Working Temperature	-10°C to +50°C						
CCT	4000K -6500K						
Beam Angle	60°, 90° and 80x100°asymmetrical						
Power Factor	>0.90						
Options	Dimming Driver						
Housing	Aluminium						
Mounting Bracket	Stainless Steel						
Installation	Suspended or Wall Mounted						
Warranty	3 years						

Wattage	Dimensions (mm)
65W	293x312x163
90W	368x312x163
120W	443x312x163
150W	518x312x163
210W	668x312x163
240W	668x312x163

## Starlite High Bay



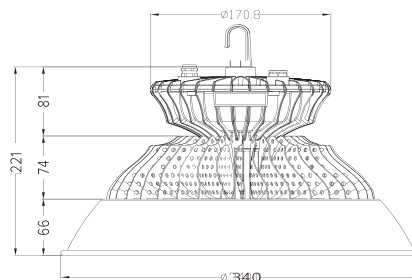
The Starlite LED High Bay offers a differentiated outlook design, unique heat dissipation methodology, excellent lighting efficiency and a high stability LED luminaire engineered to be an ideal fixture for your Environment. The fitting can be used in industrial and logistic facilities, warehouses, supermarkets, shopping centres, and many more applications.

Applying a unique fan shape design for the reflection lens, makes the lighting effect softer and more evenly distributed. One other optional feature is it can be equipped with a lighting regulator from 0-10 step control analogue /PWM and can be connected with a microwave sensor making the fitting as energy efficient as possible.

### Specification

Product Code	MGSTL90M	MGSTL110M	MGSTL130M	MGSTL150W
Wattage	90W	110W	130W	150W
Lumens	10800	13200	15600	18000
CCT	4000K, 5000K, 6000K			
Beam Angles	45°, 110° PMMA			
Power Factor	0.94			
CRI	>80			
Driver	MEANWELL			
Operating Voltage	100-277V, 50/60Hz			
Operating Temperature	-30°C to +50°C			
IP Rating	IP65			
Housing	Aluminium			
Finish	Black Powder Coating			
Warranty	5 years			

### Dimensions



## Tornado High Bay



The Tornado LED High Bay offers a unique outlook design, with highly effective heat dissipation methodology, excellent lighting efficiency and high stability LED luminaire engineered to be the ideal fixture for your environment.

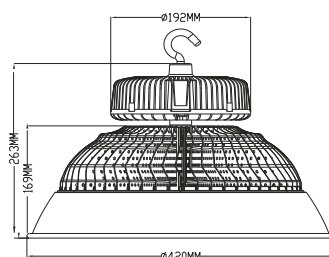
The fitting can be used in industrial and logistic facilities, warehouses, supermarkets, shopping centres and many more applications.

With a unique aluminium reflector design for the reflection lens it produces a softer and more evenly distributed lighting effect. This series can be equipped with an optional lighting regulator from 0-10 step control Analog/PWM. It can also be connected with microwave sensor making the fitting as energy efficient as possible under different circumstances.

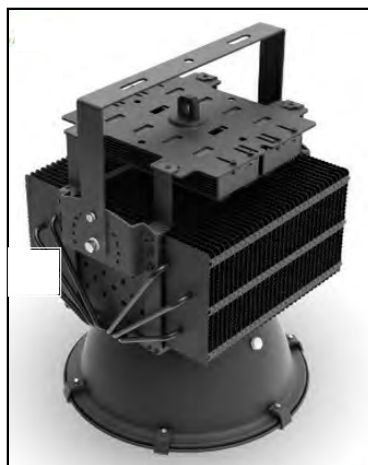
### Specification

Product Code	MGTND170D	MGTND220D	MGTND260D
Wattage	170W	220W	260W
Lumens	20400	26400	31200
Beam Angle	45° or 110° PMMA		
CCT	4000K, 5000K, 6000K		
CRI	>80Ra		
Power Factor	0.92		
Operating Voltage	90-305V 50/60Hz		
Operating Temperature	-40°C to 60°C		
Driver	MEANWELL		
Housing	Aluminium		
Fin	Black Powder coating		
Weight	7.8Kg		
Warranty	5 years		

### Dimensions



## Tristar



The Tristar is the ideal fitting for warehouses, sports halls, car parks and other applications, where a large area needs to be lit either indoors or outdoors.

It has four unique design features:



PTFE Breathable membrane  
Waterproof rubber ring

### Respirator Design

Waterproof design, eliminating mist, avoiding condensation, therefore improving quality and extending the life span.



### 92% Reflective Rate

Reflectors beam angle 62%  
Reflective rate could reach up to 92%



### 216° adjustable angle

13 flexible positions means the angle can be adjusted within 216°



### Copper Heatpipe

By riveting the heatpipe to the fins, the heatpipe can conduct heat rapidly greatly lowering the temperature of the light source.

## Specification

Model	MGTRST100	MGTRST150	MGTRST200	MGTRST300	MGTRST400	MGTRST500
Power	100W	150W	200W	300W	400W	500W
Lumen Output	9000	13500	18000	27000	36000	45000
Input voltage	85-264V 50/60Hz					
CCT	WW- 3000K, NW - 4000K, CW - 6000K					
Beam Angle	25°, 45°, 60°, 90°					
CRI	WW - Ra88, NW - Ra85, CW - Ra80					
Power Factor	≥0.9					
Operating Temp	-25° - +45°					
Chipset	CREE XTE					
Driver	Meanwell					
IP Grade	IP65					
Material	Aluminium & Glass					
Finish colour	Black					
Warranty	3 years					

## UFO V2 High Bay



The new UFO V2 High Bay has 0-10V dimming as standard and is suitable for warehouses, supermarkets, exhibition halls and similar applications.

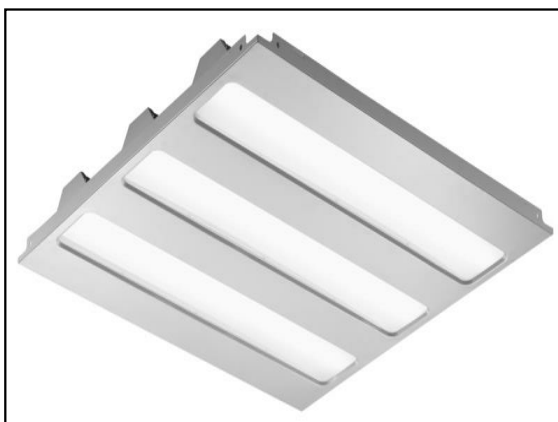
It features the following:

- Meanwell IP65 Driver
- No UV or IR in the beam
- Easy to install and operate
- Instant start, no flickering or humming

### Specification

Product Code	MGUFO2100	MGUFO2150	MGUFO2200	MGUFO2240
Wattage	100W	150W	200W	240W
Lumens	11000-12500lm	17500-20000lm	22000-26000lm	26000-31000lm
Dimensions	Ø320x185mm	Ø320x185mm	Ø400x200mm	Ø400x200mm
CCT	3000K, 4000K, 5000K 6000K			
Viewing Angle	120°			
Input Voltage	100-240V AC 50/60Hz			
Power Factor	>0.9			
IP Rating	IP65			
Operating Temperature	-20°C to 45°C			
LED	Philips LUMILEDS LUXEON 3030 2D			
Warranty	5 years			
Housing	Aluminium			
Housing colour	Black			

## 3 Line Panel



A range of recessed direct luminaires using high quality LED modules and branded drivers for excellent product reliability and efficiency. They are suitable for general lighting in retail and commercial applications.

- 5 year driver warranty as standard
- Decorative modern appearance
- Emergency versions available upon request
- Fitted with Samsung LED chips for reliability and efficiency
- Supplied in 4200K as standard
- Standard model not suitable for dimming but dimming versions are available upon request
- Supplied fitted with European branded control gear.

### Specification

Product Code	Description	Wattage	Lumen Output	Dimensions (mm)
MG312LED	3x12W LED Panel, 4200K	3x12W	3630lm	595x595x80
MG312LED/SN	3x12W LED Panel 4200K with built in sensor	3x12W	3630lm	595x595x80

Add to end of product code	Application
/D	1-10V Analogue Dimmable
/DD	DSI/Push Dim
/DALI	DALI Dimmable
/M3	3 Hour Emergency
/NL	Inbuilt NiteLite
/CF	Inbuilt Corridor Function



Adjustable Track Light



The adjustable tracklight is ideally suited to retail applications, restaurants, offices and hotels.

Specification

- High quality diecast aluminium body
- 2, 3 and 4 lane rail head
- Integrated driver box and lamp body design
- Fin shaped design in heat sink

Product Code	MGATRK20	MGATRK28	MGATRK38	MGATRK48W
Wattage	20W	28W	38W	48W
Lumens	2000 lm	2800lm	3800lm	4800lm
Beam Angle	85°			
Input Voltage	AC200-240v 50/60 Hz			
Power Factor	≥0.9			
CRI	≥80 or ≥90			
CCT	2700K to 6500K available			
Adjustable	140°			
IP Rating	IP20			
Dimensions	(L)204 X (W)107 X (H)230 MM			
Finish Options	White/ Black/ Silver			
Dimmable Options	DALI/ 0-10V/ Triac			
Warranty	5 years			

## Anti Glare Panel



A range of recessed panels suitable for open plan offices, showrooms, call centres and back office areas where anti-glare is required for work stations.

- Extruded aluminium white frame
- Prismatic PMMA Diffuser
- 3 year warranty
- IP20
- UGR <19

Product Code	Wattage	Dimensions (mm)	Cover	Lmens
MGAGPL33	33W	595x595x11	Opal PMMA	3100lm

### Options

Add to end of Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test 3 Hour Emergency
/MS or /CF	Inbuilt Microwave Sensor or Corridor function if used in plasterboard or suspended ceiling

### Accessories

Product Code	Description
MGAGSUSKIT	Suspension kit for panel
MGSFMK600	Surface Mounting Kit for panel
MGRFM600	Recessing frame for plasterboard
MGPBC	Surface mounting clips for use with plasterboard

## Circular Wall Wash



The circular wall wash is widely used in restaurants, department stores, hotels and other similar applications.

Product Code	MGWW20WC	MGWW28WC	MGWW38WC
Wattage	20W	28W	38W
Lumens	1780lm	2670lm	3075lm
Colour Temperature	2700K-3500K, 4000K - 4500K, 5000K - 6500K Beam		
Angles	16°, 24°, 48°		
Cutout	Ø170mm		
Dimensions	195x180mm		
CRI	≥80		
Input Voltage	AC90-260V		
Operating Temperature	-20°C to +40°C		

Fire Rated Downlight



The new fire rated downlight is fully fire rated to 90 minutes, IP65 waterproof and is available dimmable or non dimmable.

Specification

Product code	MGFRD10
Wattage	10W
Input Voltage	220-240V 50/60Hz
Power Factor	>0.95
Beam Angle	60°
Lumens	800lm
CRI	80
Cutout	65mm
Dimensions	Ø87 x 90mm
Fitting colour	White
Material	Aluminium Alloy & Polycarbonate
Weight	380g
Options	Dimmable
Warranty	5 years

Selectable Colour Temperatures

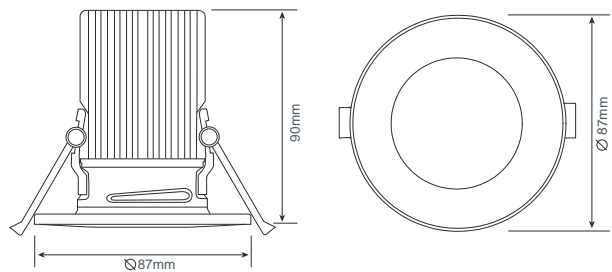


2700-3200K	4000-4500K	6000-6500K
Warm White	Natural White	Cool White

Fire Protection

At the heart of the Downlight design is a steel fire cowl patent system for efficiently transferring heat from LED to heat sink, whilst ensuring that under fire conditions the ceiling is maintained for its full rated duration.

## Dimensions

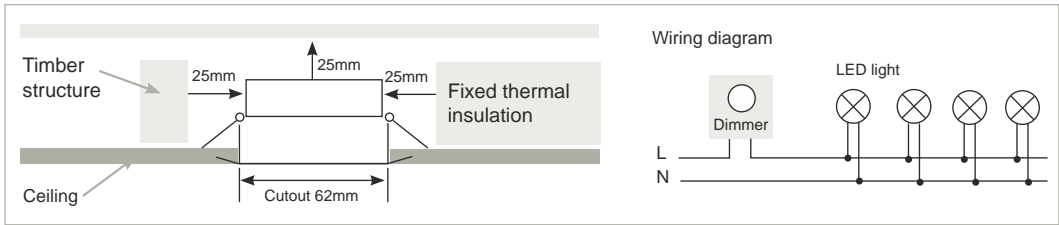


## Bezel Options



(Sold Separately)

## Installation Diagram



## High Powered Downlight - DL03M



The High Powered Downlight is ideally suited to retail applications, hotels, offices, restaurants and other internal areas.

### Specification:

Product code	MGDL0306W	MGDL0309W
Wattage	6W	9W
Lumens	600lm	900lm
Beam Angle	100°	
Power Factor	≥0.9	
CRI	≥80 or ≥90	
CCT	2700-6500K	
Dimensions	110x40mm (DxH)	
Cut out	90mm	
LED Chip	SMD Samsung	
Weight	0.4kg	
IP Rating	IP20	
Mounting	Recessed	
Warranty	3 years	
Dimmable Options	DALI, 0-10V, Triac	
Finish	White - standard, Black or Silver options	

## High Powered Downlight - DL04M



The High Powered Downlight is ideally suited to retail applications, hotels, offices, restaurants and other internal areas.

### Specification:

Product code	MGDL0406W	MGDL0409W	MGDL0412W
Wattage	6W	9W	12W
Lumens	600lm	900lm	1200lm
Beam Angle	100°		
Power Factor	≥0.9		
CRI	≥80 or ≥90		
CCT	2700-6500K		
Dimensions	155x54mm (DxH)		
Cut out	125mm		
LED Chip	SMD Samsung		
Weight	0.7kg		
IP Rating	IP20		
Mounting	Recessed		
Warranty	3 years		
Dimmable Options	DALI, 0-10V, Triac		
Finish	White - standard, Black or Silver options		



## High Powered Downlight - DL05M



The High Powered Downlight is ideally suited to retail applications, hotels, offices, restaurants and other internal areas.

### Specification:

Product code	MGDL0512W	MGDL0520W	MGDL0524W
Wattage	12W	20W	24W
Lumens	1200lm	2000lm	2400lm
Beam Angle	100°		
Power Factor	≥0.9		
CRI	≥80 or ≥90		
CCT	2700-6500K		
Dimensions	175x55mm (DxH)		
Cut out	145mm		
LED Chip	SMD Samsung		
Weight	0.9kg		
IP Rating	IP20		
Mounting	Recessed		
Warranty	3 years		
Dimmable Options	DALI, 0-10V, Triac		
Finish	White - standard, Black or Silver options		

## High Powered Downlight - DL06M



The High Powered Downlight is ideally suited to retail applications, hotels, offices, restaurants and other internal areas.

### Specification:

Product code	MGDL0612W	MGDL0620W	MGDL0624W	MGDL0630W	MGDL0636W
Wattage	12W	20W	24W	30W	36W
Lumens	1200lm	2000lm	2400lm	3000lm	3600lm
Beam Angle	100°				
Power Factor	≥0.9				
CRI	≥80 or ≥90				
CCT	2700-6500K				
Dimensions	195x56mm (DxH)				
Cut out	165mm				
LED Chip	SMD Samsung				
Weight	1.03kg				
IP Rating	IP20				
Mounting	Recessed				
Warranty	3 years				
Dimmable Options	DALI, 0-10V, Triac				
Finish	White - standard, Black or Silver options				

## High Powered Downlight - DL08M



### Specification

Input Voltage	AC100-240V 50/60Hz
Beam Angle	100°
Power Factor	≥0.9
CRI	≥80 or ≥90
CCT	2700K - 6500K
Dimensions	245 x 54mm (DxH)
Cut Out	210mm
Mounting	Recessed
Weight	1.6Kg
IP Rating	IP20/ IP44
Warranty	3 years
Dimmable Options	DALI , 0-10V , Triac
Finishes	White - Standard, Black & Silver option

Product Code	Wattage	Lumens
MGDL0812W	12W	1200
MGDL0815W	15W	1500
MGDL0820W	20W	2000
MGDL0824W	24W	2400
MGDL0830W	30W	3000
MGDL0836W	36W	3600
MGDL0842W	42W	4200
MGDL0848W	48W	4800

## ID One Panel



A range of recessed indirect luminaires using high quality LED modules and branded drivers for excellent product reliability and efficiency. They are suitable for general lighting in retail and commercial applications.

- 5 year driver warranty as standard.
- Indirect cover for soft illumination
- Emergency versions available upon request.
- Mounting kits for plasterboard available upon request.
- Standard model not suitable for dimming but dimmable versions are available upon request.

Product Code	Description	Wattage	Lumen Output	Dimensions mm	Cut out mm
MGID212	LED Board Recessed indirect	2x12W	1500lm	595x595x110	580x580
MGID222	LED Board Recessed indirect	2x22W	3630lm	595x595x110	580x580

Add to end of product code	Application
/D	1-10V Analogue Dimmable
/DD	DSI/Push Dim
/DALI	DALI Dimmable
/M3	3 Hour Emergency
C/CLIPS	Mounting clips for plasterboard ceiling

## ID Two Panel



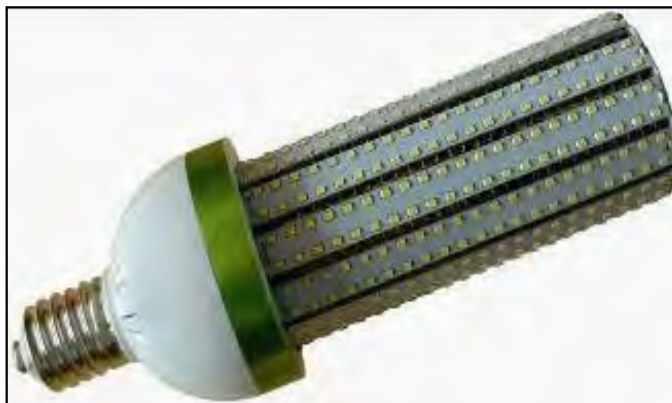
A range of recessed indirect luminaires using high quality LED modules and branded drivers for excellent product reliability and efficiency. They are suitable for general lighting in retail and commercial applications.

- 5 year driver warranty as standard.
- Direct/Indirect cover for soft illumination
- Emergency versions available upon request.
- Mounting kits for plasterboard available upon request.
- Can help achieve LG7 compliance
- Standard model not suitable for dimming but dimmable versions are available upon request.
- Supplied fitted with European branded control gear

Product Code	Description	Wattage	Lumen Output	Dimensions mm	Cut out mm
MGIDT211	Recessed direct/indirect with centre louvre	2x11W	2480lm	595x595x110	580x580
MGIDT215	Recessed direct/indirect with centre louvre	2x15W	3000lm	595x595x110	580x580
MGIDT222	Recessed direct/indirect with centre louvre	2x22W	4840lm	595x595x110	580x580
MGIDT211OP	Recessed direct/indirect with centre opal louvre	2x11w	2480lm	595x595x110	580x580
MGIDT215OP	Recessed direct/indirect with centre opal louvre	2x15W	3000lm	595x595x110	580x580
MGIDT222OP	Recessed direct/indirect with centre opal louvre	2x22W	4840lm	595x595x110	580x580

Add to end of product code	Application
/D	1-10V Analogue Dimmable
/DD	DSI/Push Dim
/DALI	DALI Dimmable

## LED Corn Lamp



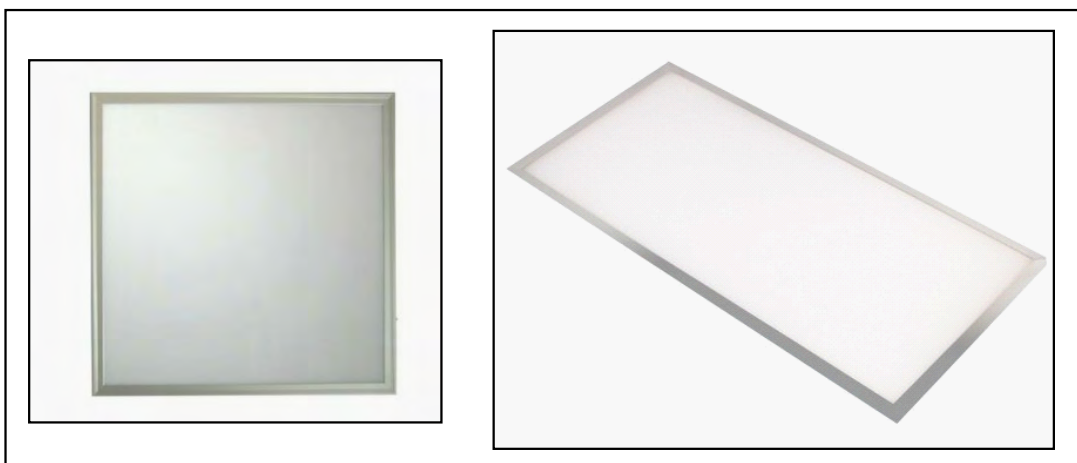
### Specification

Product Code	MGCNL283520W	MGCNL283530W	MGCNL283540W	MGCNL283560W
Wattage	20W	30W	40W	60W
Lumens	1900-2100lm	2850-3050lm	3900-4100lm	6200-6900lm
Dimensions	Ø73 x 170mm	Ø90 x 215mm	Ø90 x 255mm	Ø90 x 275mm
LED	Epistar 2835 SMD Chip			
Input Voltage	AC85-277V			
CCT	2700K-8000K			
Angle	360°			
Material	Aluminium PCB and heat sink			
Options	External Meanwell Driver			
Warranty	3 years			

Product Code	MGCNL283580W	MGCNL2835100W	MGCNL28351200W
Wattage	80W	100W	120W
Lumens	8300-9300lm	10500-11500lm	12500-14000lm
Dimensions	Ø105 x 295mm	Ø105 x 315mm	Ø112 x 340mm
LED	Epistar 2835 SMD Chip		
Input Voltage	AC85-277V		
CCT	2700K-8000K		
Angle	360°		
Material	Aluminium PCB and heat sink		
Options	External Meanwell Driver		
Warranty	3 years		

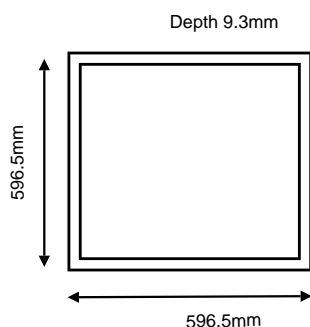
Not recommended for use in enclosed fittings unless used with external driver option.

## LED Panel

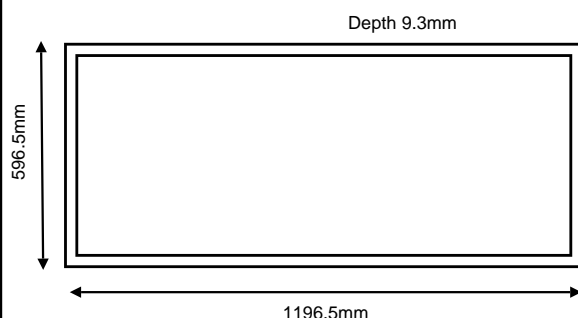


Our ultra thin LED panel light series are side lit for a uniform natural light source. The main application is for commercial lighting and can be mounted in three ways - embedded, ceiling mounted and suspended.

### Specifications



Product Code	MGPL40W
Wattage	40W
Lumens	3600-4000lm
CCT	3000K, 4000K, 6000K
Trim Colour	White
Input Voltage	AC85-265V
Beam Angle	120°
Power Factor	>0.9
Material	PMMA/AL
Dimming Options	230V/ 0-10V/ DALI



Product Code	MGPL75W
Wattage	75W
Lumens	6700-7500lm
CCT	3000K, 4000K, 6000K
Trim Colour	White
Input Voltage	AC85-265V
Beam Angle	120°
Power Factor	>0.9
Material	PMMA/AL
Dimming Options	0-10V/ DALI

Further sizes and wattages are available to order  
Surface mounting kits and emergency options are available.

\*When ordering please add CCT after product code eg. MGPL40W6 for 6000K



Linear Wrap Light



The Linear Wrap light is a cost effective and energy efficient fitting for surface mounted applications such as corridors, stairwells, schools, hospitals, and other similar areas.

Specification:

Product Code	MG-LWRL50
Wattage	50W
Lumens	>6100lm
Lumen Efficacy	122lm/W
Dimensions	1190x208x70mm
CRI	>82
CCT	3000K - 5500K
Power Factor	>0.95
Input Voltage	AC100-277V
Ambient Temperature	-30°C to +42°C
Options	Dimming/ Sensor/ Emergency
Warranty	5 years

## PA3 - Round Panel



Our round led panels make the ideal fitting for existing PL downlight replacements

They are:

- Highly energy efficient
- Lifespan of 50,000 hours
- Include a constant current driver
- Available in white or silver trim
- 3 year warranty

Product code	MGPA36W	MGPA38W	MGPA310W	MGPA315W	MGPA318W
Power	6W	8W	10W	15W	18W
Lumens	400-450	560-640	700-800	1050-1200	1260-1440
Size	145x12mm	145x12mm	180x12mm	240x12mm	300x12mm
Cutout	125-130mm	125-130mm	160-165mm	220-225mm	280-285mm
CCT	2700 - 6000K				
Input Voltage	AC85-265V				
Angle	120 degree				
CRI	70-80				
Power Factor	PF>0.9				
Material	PMMA/AL				
Dimming Options	0-10V / 230V/ Dali				

## Single Spot Track Light



The spot track lights are ideal for restaurants and retail applications.

### Specification

Product Code	MGSSTRK15	MGSSTRK20	MGSSTRK25	MGSSTRK30	MGSSTRK40
Wattage	15W	20W	25W	30W	40W
Lumens	1500lm	2000lm	2500lm	3000lm	4000lm
CCT	3000K, , 4000K, 5000K				
Beam Angle	12°, 22°, 35°				
Input Voltage	AC220-240V 50/60Hz				
CRI	≥80 or ≥90				
Dimensions	290x155x105mm				
LED Chip	SAMSUNG COB				
Rotatable	350°				
Adjustable Degree	120°				
IP Ratng	IP20				
Warranty	3 years				
Adaptor	2 wire/ 3 wire/ 4 wire				
Finishing	White & Black				

Single Spot 2 Track Light

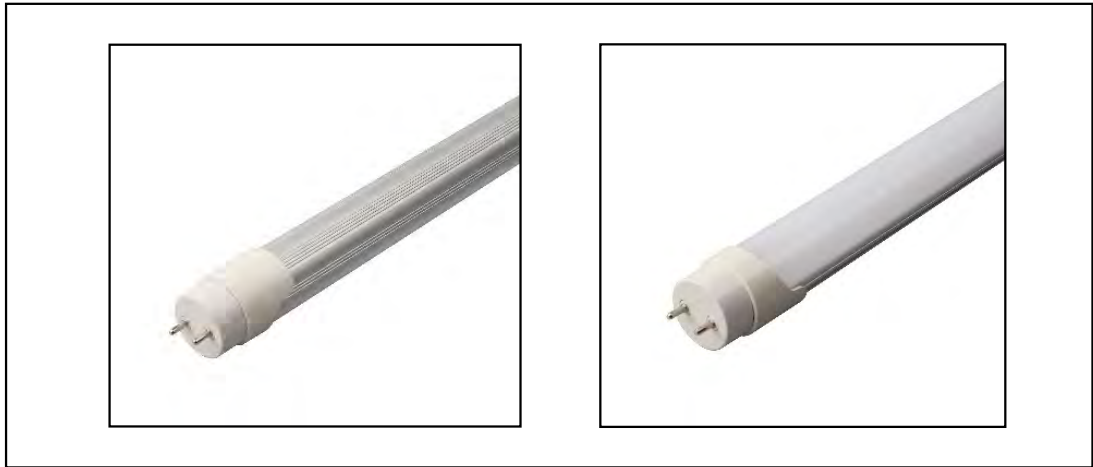


The spot track lights are ideal for restaurants and retail applications.

Specification

Product Code	MGS2TRK15	MGS2TRK20	MGS2TRK25	MGS2TRK30	MGS2TRK40
Wattage	15W	20W	25W	30W	40W
Lumens	1500lm	2000lm	2500lm	3000lm	4000lm
CCT	3000K, , 4000K, 5000K				
Beam Angle	12°, 22°, 35°				
Input Voltage	AC220-240V 50/60Hz				
CRI	≥80 or ≥90				
Dimensions	265x260x105mm				
LED Chip	SAMSUNG COB				
Rotatable	350°				
Adjustable Degree	120°				
IP Ratng	IP20				
Warranty	3 years				
Adaptor	2 wire/ 3 wire/ 4 wire				
Finishing	White & Black				

Standard LED Tube

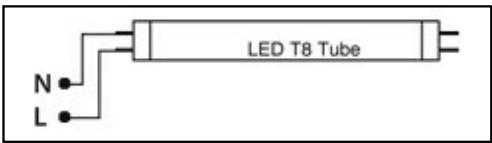


Specification

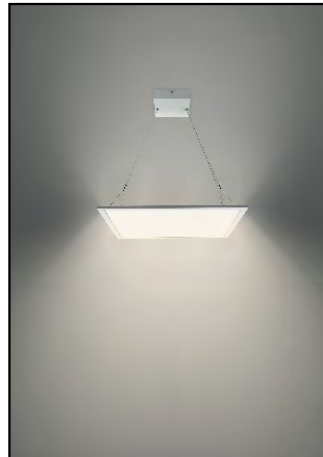
Product Code	MGSTD10W2	MGSTD13W3	MGSTD20W4	MGSTD25W5	MGSTD28W6	MGSTD40W8
Wattage	10W	13W	20W	25W	28W	40W
Length	600mm	900mm	1200mm	1500mm	1800mm	2400mm
Lumens	900-1000lm	1170-1300lm	1800-2000lm	2250-2500lm	2520-2800lm	3600-4000lm
CCT	2700K to 8000K					
Input Voltage	AC85-					
Angle	120°					
Material	Aluminium, & PC					
Cover	Clear or Frosted					
Power Factor	>0.92					
Lifespan	50,000 hours					
Warranty	3 years					

When ordering please add CCT and cover choice after code  
eg. MGSTD10W24F for 10W, 4K and Frosted

Please note: Bypass the existing magnetic/electronic ballast



## Suspended Panels



The suspended panels are suitable for general retail and commercial installations where aesthetics, functionality and design are as important as reliability.

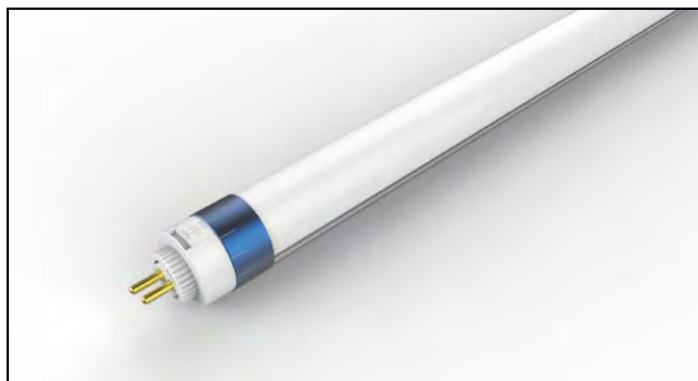
- 5 year warranty as standard
- European brand driver
- Suspension kits supplied are 2 metres as standard

Product Code	MGCSP32	MGCSP45	MGSSP42	MGSSP45
Wattage	32W	45W	42W	45W
Design	Circular	Circular	Square	Square
Lumens	2470lm	3475lm	3500lm	3400lm
Dimensions	600x11	600x11	595x595x11	1195x295x11
Cover Type	Opal PMMA			
Beam Angle	120°			
IP Rating	IP20 or IP40			

### Options

Add to end of Product code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test

## T5 Easy Fit



The T5 Easy Fit is the LED T5 tube replacement for HE or HO tubes.

- 180°rotating end cap design
- T6 tube with T5 base
- Internal led driver for convenient installation

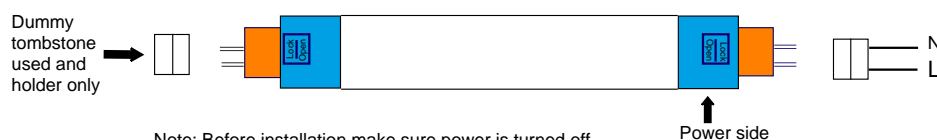
### Standard version

Product Code	MGL069S	MGL0618S	MGL0625S	MGL0624S	MGL0630S
Wattage	9W	18W	25W	24W	30W
Lumens	1125lm	2250lm	3000lm	3000lm	3600lm
Dimensions (mm)	600x22	1200x22	1200x22	1500x22	1500x22
CCT	3000K, 4000K, 6000K				
Beam Angle	120°				
Power Factor	0.9				
Input Voltage	AC100-277V				
CRI	>80				
Cover	Clear or Frosted (lumen output for frosted cover -5%)				

### Lumen Plus Version

Product Code	MGL069LP	MGL0618LP	MGL0625LP	MGL0624LP	MGL0630LP
Wattage	9W	18W	25W	24W	30W
Lumens	1305lm	2610lm	3500lm	3500lm	4200lm
Dimensions (mm)	600x22	1200x22	1200x22	1500x22	1500x22
CCT	3000K, 4000K, 6000K				
Beam Angle	120°				
Power Factor	0.9				
Input Voltage	AC100-277V				
CRI	>80				
Cover	Clear or Frosted (lumen output for frosted cover -5%)				

Available upon request - T5 tubes specific for fresh meat displays





## Venus 54 Downlight



The Venus range of downlights are available in a variety of options making them the perfect solution for all retail and commercial applications with an emphasis on corridors, retail and reception space.

- Die cast aluminium construction
- European LED Driver
- 5 year driver warranty
- IP rating - IP54
- 4000K as standard (3000K available)
- Sunken PC Cover

Product Code	Wattage	Dimensions Dia x Depth (mm)	Cut Out (mm)	Lumens
MGVN5418W	18W	190x45	160-170	1460lm
MGVN5425W	25W	228x45	200-210	1960lm
MGVN5435W	35W	228x45	200-210	2640lm
MGVN5445w	45W	280x52	230-260	3780lm

### Options

Add to end of Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test 3 Hour Emergency

## Venus Downlight



The Venus range of downlights are available in a variety of options making them the perfect solution for all retail and commercial applications with an emphasis on corridors, retail and reception space.

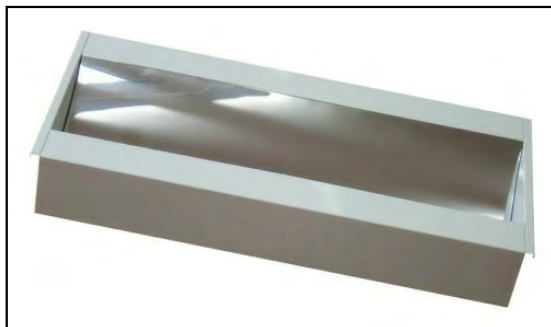
- Complete with SMD or COB Led lightsource
- Die cast aluminium construction
- European LED Driver
- 5 year driver warranty
- IP rating - IP20 or IP44
- 4000K as standard (3000K and 6000K available)

Product Code	Wattage	Dimensions Dia x Depth (mm)	Cut out (mm)	Light Source	Diffuser Type	Lumens
MGVN12W	12W	130x75	115	SMD	Frosted Sunken Glass	1065lm
MGVN18W	18W	180x80	165	SMD	Frosted Sunken Glass	1780lm
MGVN30W	30W	230x85	215	SMD	Frosted Sunken Glass	2250lm
MGVNDG20W	20W	190x185	175	COB	Frosted Drop Glass	2100lm
MGVNDG30W	30W	235x220	220	COB	Frosted Drop Glass	2790lm

### Options

Add to end of Product Code	Description
/D	1-10V Dimmable
/DD	DSI Digital Dimmable
/DL	DALI and Switch Dimmable
/M3	3 Hour Emergency
/ST	Self Test 3 Hour Emergency

## Wall Wash



Our high efficiency recessed luminaires with LED boards are ideal for general lighting in retail and commercial applications.

- 5 year driver replacement warranty as standard
- Supplied with LED light source
- Reflective Aluminium Louvre
- High quality steel body
- Supplied fitted with European branded driver.
- Asymmetrical cover ensures light is directed onto the wall.

Product Code	Description	Wattage	Lumen output	Size	Cut Out
MGW20	600X300 Recessed Wall wash, 4200K	20W	2000lm	595x295x85	580x280
MGW50	1200x300 Recessed Wall wash, 4200K	50W	5000lm	1195x295x85	1180x280

Add to end of Product Code	Application
/D	1-10V Analogue Dimmable
/DD	DSI/Push Dim
/DALI	DALI Dimmable
/M3	3 Hour Emergency

## Adaptaled



The Adaptaled features the latest LED technology and an ultra efficient and reliable Meanwell Driver. The unique frame design allows the chips to be tilted and twisted to suit the application.

### Specification:

Product Code	Wattage	Lumens	Dimensions
MGRTF35	35W	3300-3600	120mm Diameter
MGRTF45	45W	4300-4500	120mm Diameter
MGRTF65	65W	6400-6800	120mm Diameter
MGRTF60	60W	5900-6100	174x125mm
MGRTF80	80W	7800-8300	174x125mm
MGRTF100	100W	9800-10500	174x125mm
MGRTF120	120W	11800-12500	174x125mm
MGRTF150	150W	14800-15500	265x160mm
MGRTF200	200W	19800-21000	265x160mm
MGRTF240	240W	24800-25000	265x160mm

Input Voltage	AC100-265
Base	E27 E40
LED Source	Bridgelux SMD LEDs
Colour Temperature	3K, 4K, 6K available
CRI	>80Ra
Power Factor	0.9
Working Temperature	-20° - +45°
Fixed Material	Die Cast Aluminium
Driver	Meanwell
Warranty	3 years

## IP65 Pre-wired Batten



IP65/Anti-Corrosive LED battens are a range of high efficiency luminaires designed to accommodate LED T8 lamps. They are suitable for general lighting in retail, commercial applications and suitable for outdoor use. Ideal for car parks, farmyards, storerooms, sheds etc.

- ABS base and polycarbonate diffuser
- 2 year warranty on LED lamp options
- Supplied with LED light source where applicable

Product Code	Description	Dimensions (mm)
MG2S/65LED/B	600mm T8 wired for LED single lamp IP65	660x93x100
MG2T/65LED/B	600mm T8 wired for LED twin lamps IP65	660x140x100
MG4S/65LED/B	1200mm T8 wired for LED single lamp IP65	1270x93x100
MG4T/65LED/B	1200mm T8 wired for LED twin lamps IP65	1270x140x100
MG5S/65LED/B	1500mm T8 wired for LED single lamp IP65	1565x93x100
MG5T/65LED/B	1500mm T8 wired for LED twin lamp IP65	1565xx140x100
MG6S/65LED/B	1800mm T8 wired for LED single lamp IP65	1870x112x100
MG6T/65LED/B	1800mm T8 wired for LED twin lamp IP65	1870x166x100

Add to end of product code	Application
SS/CLIPS	Stainless Steel Clips for 600-1500mm
SS/CLIPS/70	Stainless Steel Clips for 180mm
SSCLIPS/LK	Lockable Stainless Steel Clips for 600-1500mm

## LED Batten



White metal reflector



Prismatic & Opal diffusers

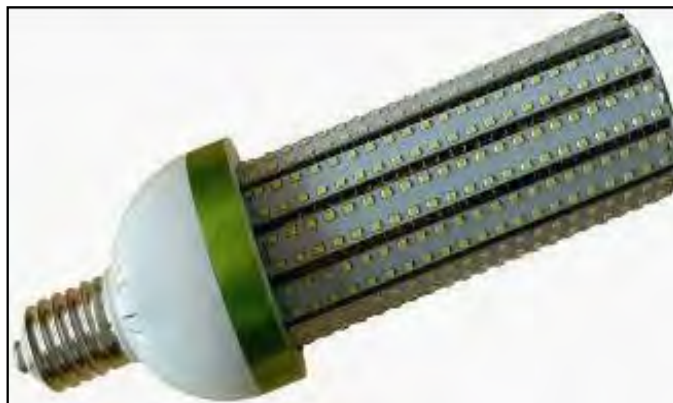
A range of high frequency batten luminaires designed to accommodate T8 LED lamps. They are suitable for general lighting in commercial applications and public places

- 2 year lamp warranty where applicable
- Integral isolated driver for extra safety where applicable
- Available less lamp and wired to your spec
- IP20 rated
- Standard model not suitable for dimming but dimmable versions are available

Product Code	Description	Size
MGBAT4S/B	1200mm Single LED batten less lamp	1230x48x40
MGBAT4T/B	1200mm Twin LED batten less lamp	1230x48x40
MGBAT5S/B	1500mm Single LED batten less lamp	1530x48x40
MGBAT5T/B	1500mm Twin LED batten less lamp	1530x48x40
MGBAT6S/B	1800mm Single LED batten less lamp	1830x48x40
MGBAT6T/B	1800mm Twin LED batten less lamp	1830x48x40

Add to end of Product Code	Application Additional Item
DIF4SPR	1200mm clear prismatic single lamp diffuser
DIF4TPR	1200mm clear prismatic twin lamp diffuser
DIF5SPR	1500mm clear prismatic single lamp diffuser
DIF5TPR	1500mm clear prismatic twin lamp diffuser
DIF6SPR	1800mm clear prismatic single lamp diffuser
DIF6TPR	1800mm clear prismatic twin lamp diffuser
DIF4SOP	1200mm clear Opal single lamp diffuser
DIF4TOP	1200mm clear Opal twin lamp diffuser
DIF5SOP	1500mm clear Opal single lamp diffuser
DIF5TOP	1500mm clear Opal twin lamp diffuser
TARF58	Aluminium reflector for 1500mm single & twin
TARF70	Aluminium reflector for 1800mm single & twin
TRF58	White reflector for 1500mm single & twin
TRF70	White reflector for 1800mm single & twin

## LED Corn Lamp



### Specification

Product Code	MGCNL283520W	MGCNL283530W	MGCNL283540W	MGCNL283560W
Wattage	20W	30W	40W	60W
Lumens	1900-2100lm	2850-3050lm	3900-4100lm	6200-6900lm
Dimensions	Ø73 x 170mm	Ø90 x 215mm	Ø90 x 255mm	Ø90 x 275mm
LED	Epistar 2835 SMD Chip			
Input Voltage	AC85-277V			
CCT	2700K-8000K			
Angle	360°			
Material	Aluminium PCB and heat sink			
Options	External Meanwell Driver			
Warranty	3 years			

Product Code	MGCNL283580W	MGCNL2835100W	MGCNL28351200W
Wattage	80W	100W	120W
Lumens	8300-9300lm	10500-11500lm	12500-14000lm
Dimensions	Ø105 x 295mm	Ø105 x 315mm	Ø112 x 340mm
LED	Epistar 2835 SMD Chip		
Input Voltage	AC85-277V		
CCT	2700K-8000K		
Angle	360°		
Material	Aluminium PCB and heat sink		
Options	External Meanwell Driver		
Warranty	3 years		

Not recommended for use in enclosed fittings unless used with external driver option.



## Standard LED Tube

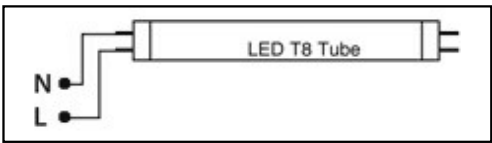


### Specification

Product Code	MGSTD10W2	MGSTD13W3	MGSTD20W4	MGSTD25W5	MGSTD28W6	MGSTD40W8
Wattage	10W	13W	20W	25W	28W	40W
Length	600mm	900mm	1200mm	1500mm	1800mm	2400mm
Lumens	900-1000lm	1170-1300lm	1800-2000lm	2250-2500lm	2520-2800lm	3600-4000lm
CCT	2700K to 8000K					
Input Voltage	AC85-					
Angle	120°					
Material	Aluminium, & PC					
Cover	Clear or Frosted					
Power Factor	>0.92					
Lifespan	50,000 hours					
Warranty	3 years					

When ordering please add CCT and cover choice after code  
eg. MGSTD10W24F for 10W, 4K and Frosted

Please note: Bypass the existing magnetic/electronic ballast



## T5 Easy Fit



The T5 Easy Fit is the LED T5 tube replacement for HE or HO tubes.

- 180°rotating end cap design
- T6 tube with T5 base
- Internal led driver for convenient installation

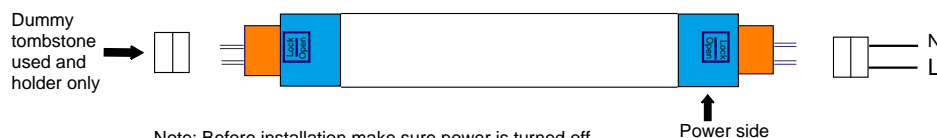
### Standard version

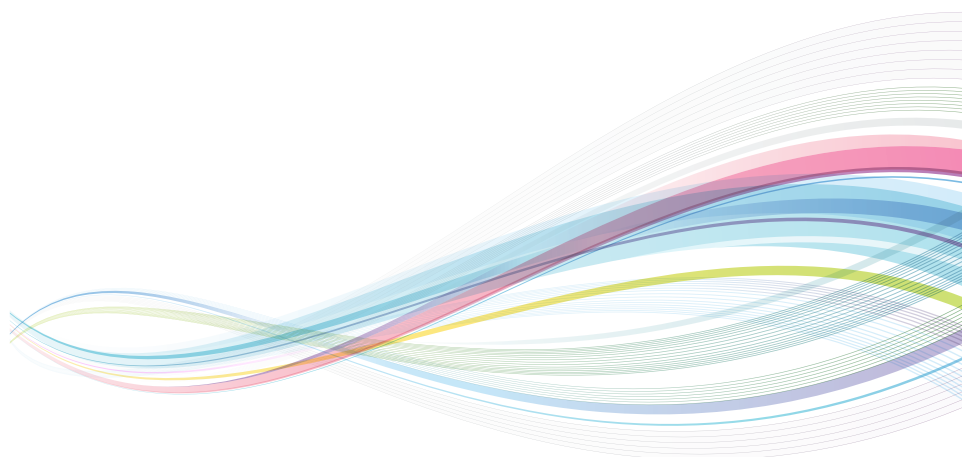
Product Code	MGL069S	MGL0618S	MGL0625S	MGL0624S	MGL0630S
Wattage	9W	18W	25W	24W	30W
Lumens	1125lm	2250lm	3000lm	3000lm	3600lm
Dimensions (mm)	600x22	1200x22	1200x22	1500x22	1500x22
CCT	3000K, 4000K, 6000K				
Beam Angle	120°				
Power Factor	0.9				
Input Voltage	AC100-277V				
CRI	>80				
Cover	Clear or Frosted (lumen output for frosted cover -5%)				

### Lumen Plus Version

Product Code	MGL069LP	MGL0618LP	MGL0625LP	MGL0624LP	MGL0630LP
Wattage	9W	18W	25W	24W	30W
Lumens	1305lm	2610lm	3500lm	3500lm	4200lm
Dimensions (mm)	600x22	1200x22	1200x22	1500x22	1500x22
CCT	3000K, 4000K, 6000K				
Beam Angle	120°				
Power Factor	0.9				
Input Voltage	AC100-277V				
CRI	>80				
Cover	Clear or Frosted (lumen output for frosted cover -5%)				

Available upon request - T5 tubes specific for fresh meat displays





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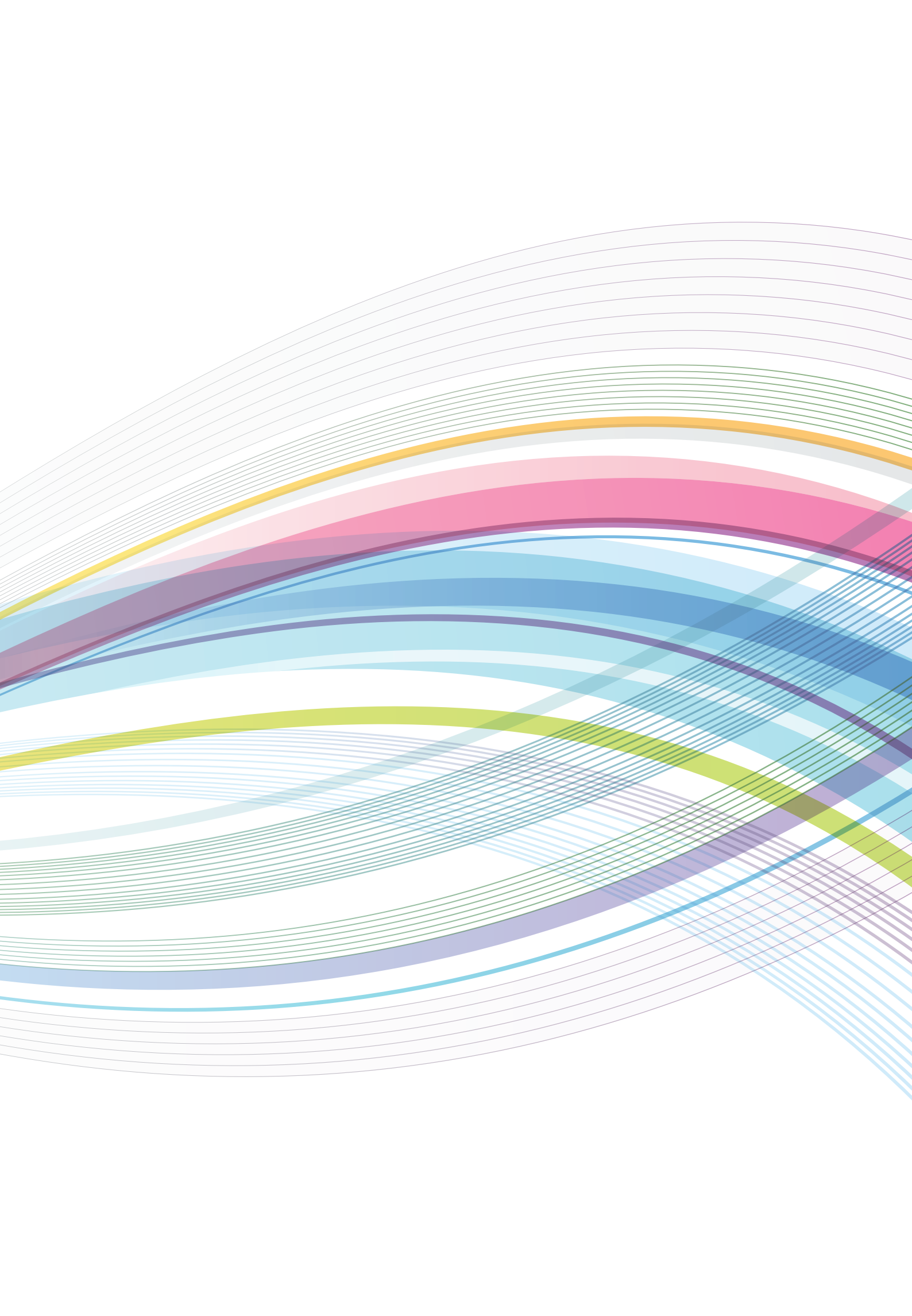
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