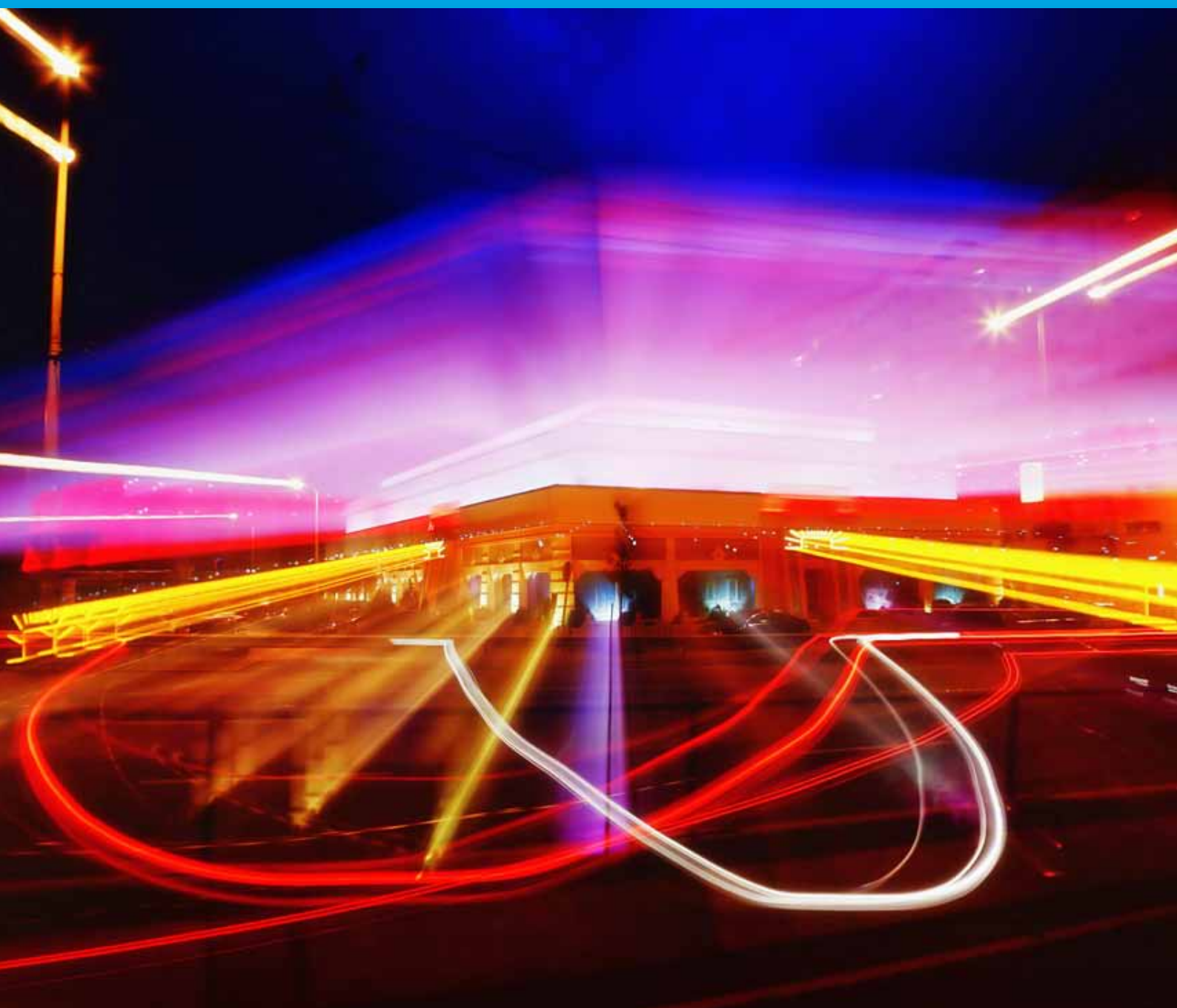


Catalogue
2014

Lumax
LED LIGHTS



Products

Downlights



Bulbs



Tubes



Panels



Strip Lights



Flood Lights



High Bays



Other



Index

Company Profile	4
Contact	5
Lighting Fundamentals	7
Products:	
- Downlights	9
- Bulbs	15
- Tubes	22
- Panels	23
- Strip Lights	24
- Flood Lights	25
- High Bays	29
- Other	30

Company Profile

About Us

Founded in 2009, Lumax is directed and operated by qualified staff in a manner to minimise cost to deliver exceptional value to our customers. We started off with most of the company operations automated which allowed time to be spent rather on technology, research and product development.

Significant growth and demand for our products enabled us to focus on the wholesale and distribution markets. From our warehouse situated in Centurion – Route 21 Corporate Business Park, we serve our customers nationally and to neighbouring countries. Expansion into Africa is considered for the medium term.

Why Lumax

All products are thoroughly evaluated, tested and benchmarked to ensure the best that LED technology has to offer. By getting involved in the design process we ensure compliance with local and international standards. University graduated electronic engineers perform the above.

Vision

To ensure quality of life today and for generations to come through efficiency and energy saving.

Mission

To research, source and promote leading edge clean energy technology at the best possible price.

Our Products

Our product range consists of purely LED (Light Emmiting Diode) lamps. The South African market was initially introduced to poor quality LED products known for either very poor light, inappropriate colour, or unaffordable high price. This motivated us to source LED technology with:

- Enough luminous power to compare well with conventional filament light bulbs
- Maximum luminous efficiency (Lumens/Watt)
- Durability
- Desirable colours and
- Reasonable price

Our imported products are also distributed to the US and European markets where it is deployed on large scale with huge success. We're proud of a sub 3% failure rate with products in the market since 2009.

Certification

Our products are CE and RoHS certified, and comply with South African safety requirements specified in IEC60598. As the local market develops and additional compliance requirements are defined, we are committed to continuously keep products compliant with regulations.



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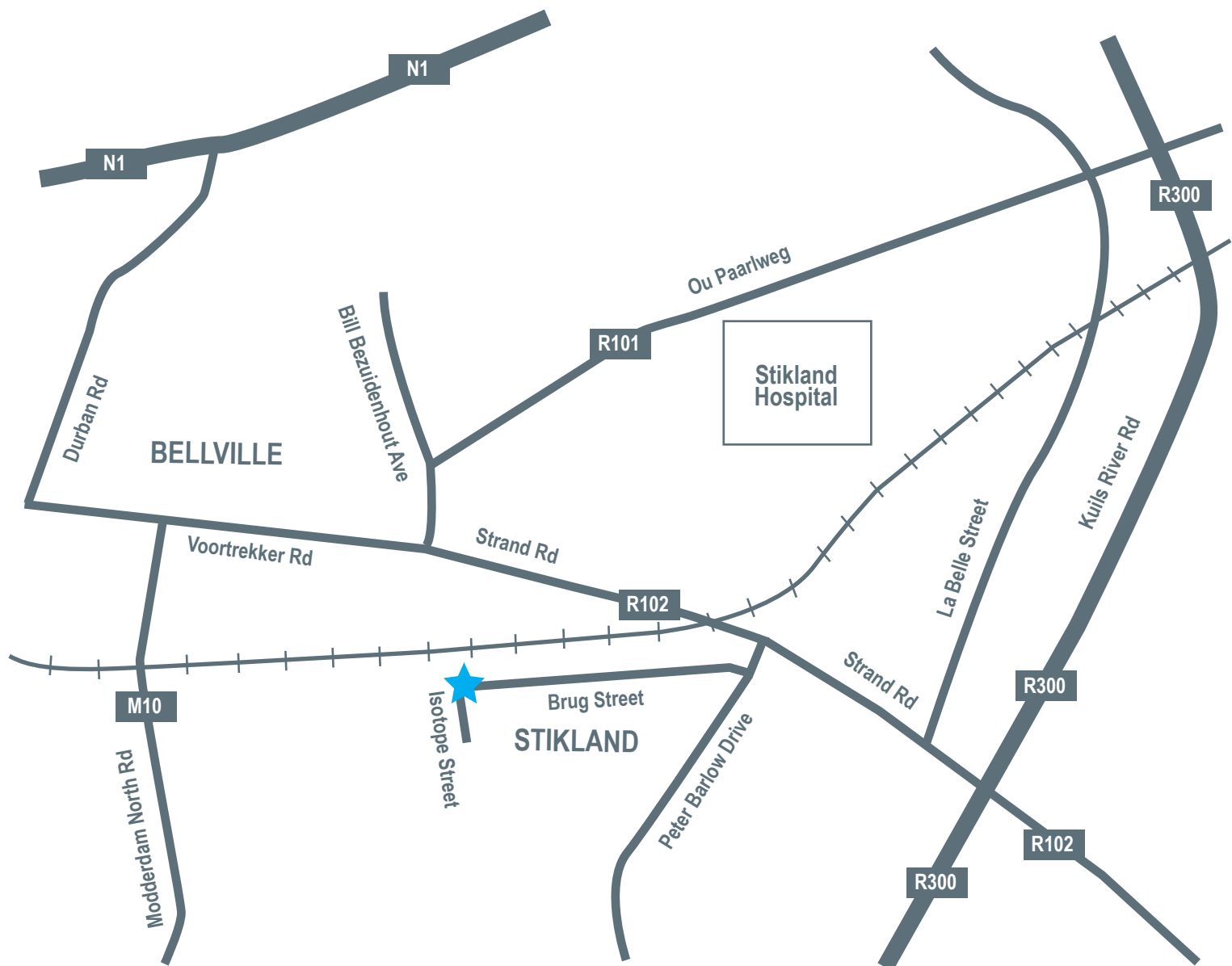
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Lighting Fundamentals

Acronyms

CE	Conformité Européenne. Placed on products to signify conformance with European Union regulations. CE marking is only mandatory for certain product groups within the European Economic Area.
COB	Chip On Board.
CRI	Colour Rendering Index.
DIP	Dual In-line Package.
IEC	International Electro-technical Commission. An international standards organisation defining standards for electrical, electronic and related technologies.
IP rating	Ingress Protection Rating. It classifies and rates the degree of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water.
J	Joule. The joule is a derived unit of energy, work, or amount of heat in the International System of Units.
K	Kelvin. Unit to express the light colour.
LED	Light Emitting Diode.
Lm	Lumen. SI unit for total luminous flux emitted from a light source.
MCCOB	Multi-Chips and Cups On Board.
MCOB	Multi-Chip embedded On Board.
PF	Power Factor. Values range from 0 to 1. A pure resistive load has a power factor of 1. Driver circuits having inductive- or capacitive impedance, results in a PF lower than 1. A higher PF is generally preferred.
PCB	Printed Circuit Board.
RoHS	Restriction of Hazardous Substances. Directive on the restriction of the use of certain hazardous substances in electric and electronic equipment.
SMD	Surface Mount Diode.
W	Watt. SI unit for power.

Luminous power & efficiency

Traditionally incandescent lamps were only specified in terms of their power rating in Watt [W]. This was appropriate as a glowing filament always produces the same luminous flux per unit of power. This is however not the case for LED technology due to the presence of a driver circuit and the actual LED chips, each having its own efficiency rating. As a result it is possible to compare equivalent power rated LEDs and find that the one produces double the light of the other.

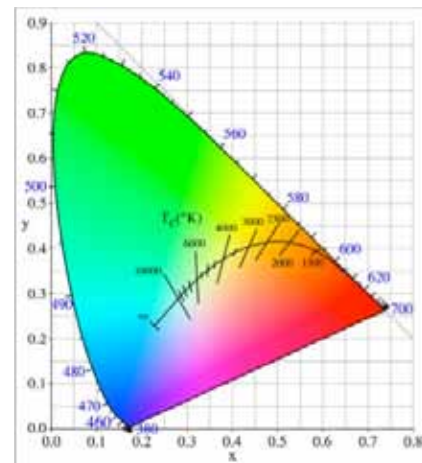
It is therefore important to rather compare products in terms of the actual light they produce, expressed by the total luminous flux with the unit Lumen [Lm]. This unit describes the total light emitted from a source in all directions, i.e. not the light passing through a given surface area described by units like Lux and Candela. For both Lux and Candela one has to consider distance from a source to make comparisons.

Each Lumax LED product is specified with its luminous flux rating in Lumen [Lm]. Additional to that the power consumption in Watt [W] and the efficiency [Lm/W] are indicated. Luminous efficiency of modern LEDs vary from 60 - 110 Lm/W. This is significantly better than conventional filament bulbs that achieve around 10-12 Lm/W.

Light Colour Temperature

Colour temperature is a characteristic of visible light that has important applications in lighting, photography, videography, publishing, manufacturing, astrophysics, and other fields. The temperature is conventionally stated in units of absolute temperature, kelvin [K].

Colour temperature is related to Planck's law and to Wien's displacement law. The diagram below is known as the CIE 1931 x,y chromaticity space. It shows the chromaticity's of black-body light sources of various temperatures (Planckian locus), and lines of constant correlated colour temperature. In the middle where all the colours overlap, white light is achieved.



Higher colour temperatures, typically 5,000 K or more, are called cool colours and appear as a bluish white. Lower colour temperatures, typically 2,700–3,000 K are called warm colours and appear yellowish white through red. Generally cool white is preferred for work environments and warm white is the better choice for typical home use to create a warm ambiance.

Lumax provides white lamps in 3 different colour categories illustrated in the picture below.



CRI

The CRI (Colour Rendering Index), sometimes called colour rendition index, is a quantitative measure of the ability of a light source to reproduce the colours of various objects faithfully in comparison with an ideal or natural light source.

Numerically, the highest possible CRI is 100, for a blackbody (incandescent lamps are effectively blackbodies), dropping to negative values for some light sources. LPS (Low-Pressure Sodium)



lighting, for instance, has negative CRI. Fluorescent lights range from about 50 for the basic types, up to about 90 for the best tri-phosphor type. LEDs vary between 60 and 90, with 70 considered reasonable, and above 80 is good. The picture below compares an ideal CRI with that of a fluorescent. It is clear that some colours are lost, when a low CRI light source is used.

Rated Life

The rated, or expected, life of a LED ranges between 35,000 and 50,000 hours. This is an estimated 30 times more than the most common incandescent bulbs and more than 10 times that of fluorescent lights.

Warranty

Warranties vary from 1 to 3 years depending on the product category.

LED Advantages

- Environmental friendly. LED lights consumes +/- 10% the power of traditional lighting.
- Solid state, thus not sensitive jarring or bumping.
- No heat build-up. LED's produce 3,500 joule/hour, compared to 90,000 joule/hour for incandescent lamps.
- Mercury-free manufacturing.
- Not sensitive to frequent ON-OFF switching.
- Whole spectrum of colours available.
- Remote use with solar panels becomes viable with very low power consumption.
- Cost-effective:
 - Lucrative return on investment. Although LED's have a higher initial cost, it has a quick payback period due to electricity saving.
 - Insignificant maintenance cost, as there's no need for frequent replacement.

LED Types

1st Generation: DIP (Dual In-Line Package)

DIP LED is the traditional diode/indicator-light-looking LEDs containing two connecting pins that are through-hole mounted to PCBs (Printed Circuit Boards). DIP LEDs were more widely manufactured prior to the 21st century. It has high optical decay, low CRI, and low efficacy relative to the more recent SMD LEDs. However, many DIPs are still used today in many applications.

2nd Generation: SMD (Surface Mount Device/Diode)

The SMD LED is a more recent, resilient, efficient, and long lasting technology for mass production. It allows for more efficient large quantity production and are used more often in the latest general purpose LED lighting solutions. SMDs rapidly increased in the first decade of the 21st century, and do not simply conduct current through



the two small pins of the diode as with more tradition DIP technology. Some common SMDs are SMD 3528 (single chip), SMD 5050 (triple chips), and SMD 3014 (latest rectangle higher lumen output).

3rd Generation: High Power SMD

Improved higher lumen output SMDs. The SMD 3014 and SMD 2835 are examples.

4th Generation: COB, MCOB and MCCOB LEDs (Multiple Chips On Board)

MCOB (Multi-Chip embedded On Board) and MCCOB (Multi-Chips and Cups On Board) is the latest and youngest (but rapidly improving) high output LED technology which integrates many small chips into one single large chip. MCOBs and MCCOBs are now widely used for many LED high bay overheads and large tunnel and flood lights.



Downlights

PRODUCT CODE: GU10-60SMD



PRODUCT DESCRIPTION

Ultra efficient, high intensity LED downlight. An enhanced 120° beam angle ensure improved light levels over its halogen or incandescent counterparts at only 6% - 8% of their power consumption. With a luminous efficiency of 90-100 Lm/W, a power factor of 0.92 and minimal harmonic distortion (within IEC specification), this is the leader in the downlight market.

APPLICATION

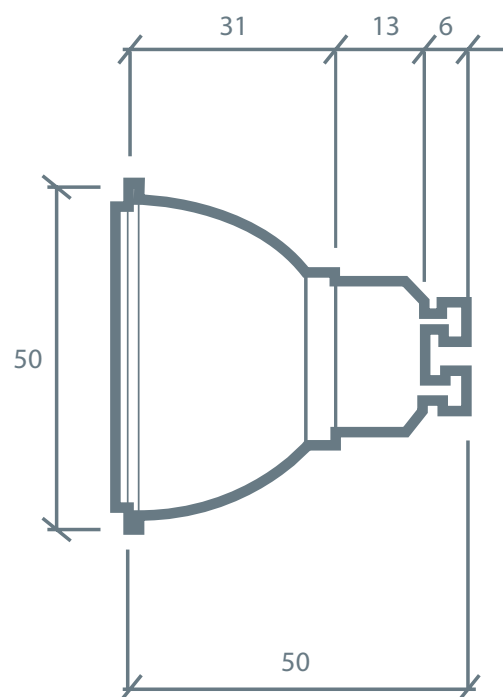
Indoors. Outdoors only in waterproof enclosures. Most commonly used recessed in ceilings, but sometimes also in wall fittings. Typically replaces 40W and 50W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS, IEC 60598, IEC 62612

Specification	Stock Items	Special Request*
Socket	GU10	
LED quantity and type	60x 3528SMDs	
Body finishing	Glass	Plastic, aluminium
Lens finishing	Clear glass	Frosted glass
Beam angle	120°	30°, 45°, 60°, 90°
Light colour temperature	3000K, 4000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	100V - 250V AC
Power	3W
Power Factor	0.92
Luminous flux	280Lm
Luminous efficiency	94Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED downlight. The 4x COB LEDs deliver 340Lm. The beam width of stock items is lower at 30°, but on request up to 90° can also be ordered.

APPLICATION

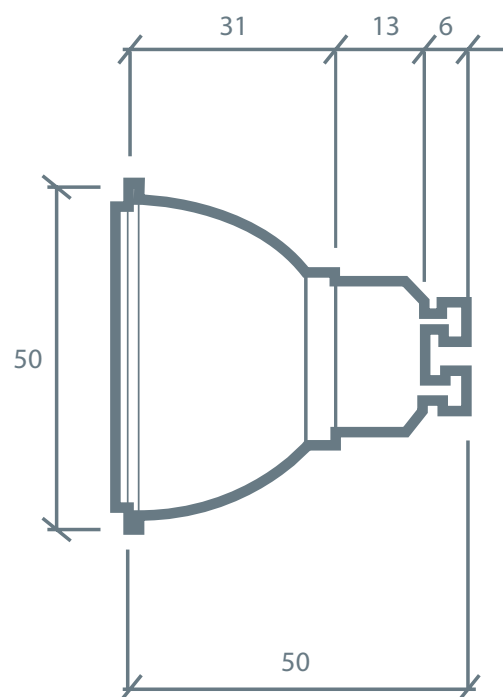
Indoors. Outdoors only in waterproof enclosures. Most commonly used as high intensity spot lights where a narrow beam might be required like in wall fittings. Also where the lamp body is exposed and a more aesthetical appearance is required. Typically replaces 40W and 50W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	GU10	
LED quantity and type	4x1W COB LED	
Body finishing	Glass	Plastic, aluminium
Lens finishing	Clear glass	Frosted glass
Beam angle	30°	60° , 90°
Light colour temperature	3000K, 4000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	100V - 250V AC
Power	5W
Power Factor	0.6
Luminous flux	320Lm
Luminous efficiency	71Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED downlight. An enhanced 120° beam angle ensure improved light levels over its halogen or incandescent counterparts at only 6% - 8% their power consumption. With a luminous efficiency of 90-100 Lm/W, a power factor of 0.92 and minimal harmonic distortion (within IEC specification), this is the leader in the downlight market.

APPLICATION

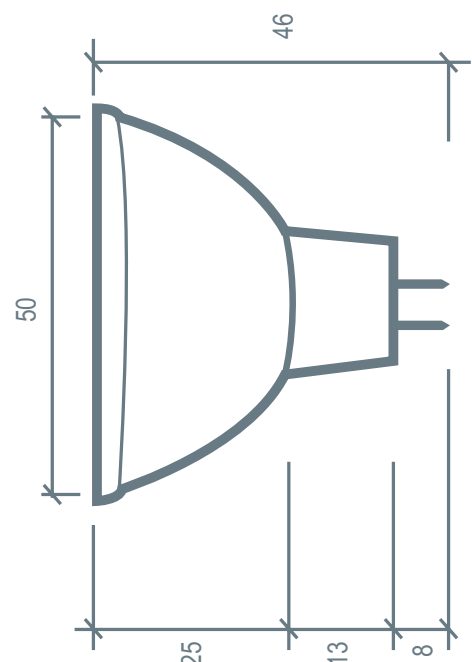
Indoors. Outdoors only in waterproof enclosures. Most commonly used for open wire scenarios where only 12V is allowed. Typically replaces 40W and 50W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	GU5.3	
LED quantity and type	60x 3528SMDs	
Body finishing	Glass	Plastic, aluminium
Lens finishing	Clear glass	Frosted glass
Beam angle	120°	60°, 90°
Light colour temperature	3000K, 4000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	12V AC / DC
Power	3W
Power Factor	0.6
Luminous flux	240Lm
Luminous efficiency	80Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED downlight. An enhanced 120° beam angle ensure improved light levels over its halogen or incandescent counterparts at only 6% - 8% their power consumption. With a luminous efficiency of 90-100 Lm/W, a power factor of 0.92 and minimal harmonic distortion (within IEC specification), this is the leader in the downlight market.

APPLICATION

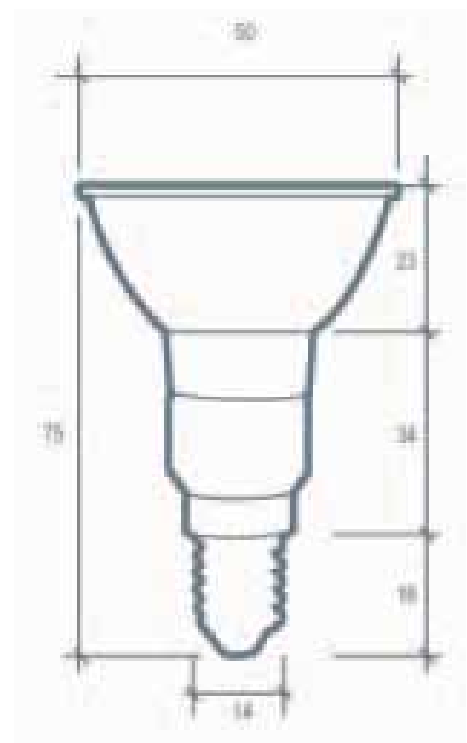
Indoors. Outdoors only in waterproof enclosures. Most commonly used recessed in ceilings, but sometimes also in wall fittings. Typically replaces 40W and 50W halogen and incandecent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	E14 / E27	
LED quantity and type	60x 3528SMDs	
Body finishing	Glass	Plastic, aluminium
Lens finishing	Clear glass	Frosted glass
Beam angle	120°	30°, 45°, 60°, 90°
Light colour temperature	3000K, 4000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	220-240V/AC
Power	3W
Power Factor	0.6
Luminous flux	240Lm
Luminous efficiency	80Lm/W





Dimmable



PRODUCT DESCRIPTION

Ultra efficient, high intensity dimmable LED downlight. An enhanced 120° beam angle ensure improved light levels over its halogen or incandescent counterparts at only 10% - 15% of their power consumption. Please note that a LED compatible dimmer switch should be used. Although compatible with any low output power rated dimmer switch, Lumax developed bell press & rotary dimmers for the whole range of dimmable lamps.

APPLICATION

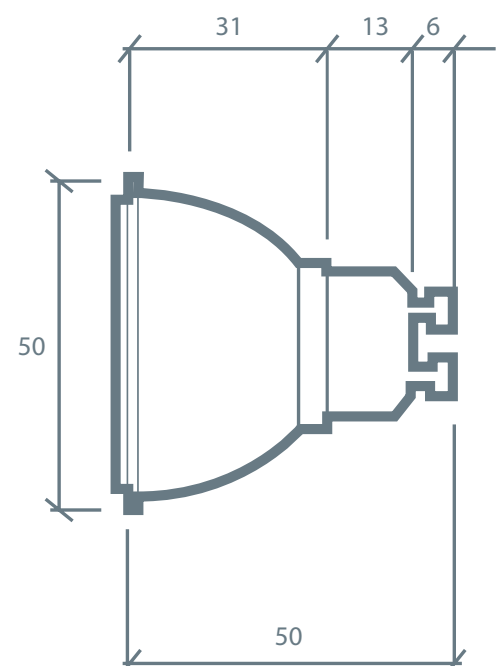
Indoors on 230V AC. Any application where dimming is required. Typically replaces 40W and 50W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	GU10	
LED quantity and type	6x 5630SMDs	
Body finishing	aluminium alloy	Plastic, aluminium
Lens finishing	PC	Frosted glass
Beam angle	120°	30°, 45°, 60°, 90°
Light colour temperature	3000K, 4000K, 6500K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	98%	
% Luminous flux at 6000h	96%	
Failure rate after 2000h	< 3%	
Rated lifetime	35000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	230VAC
Power	5W
Power Factor	>0.7
Luminous flux	230Lm
Luminous efficiency	51Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity dimmable LED downlight. An enhanced 120° beam angle ensure improved light levels over its halogen or incandescent counterparts at only 10% - 15% of their power consumption. Please note that a LED compatible dimmer switch should be used. Although compatible with any low output power rated dimmer switch, Lumax developed bell press & rotary dimmers for the whole range of dimmable lamps.

APPLICATION

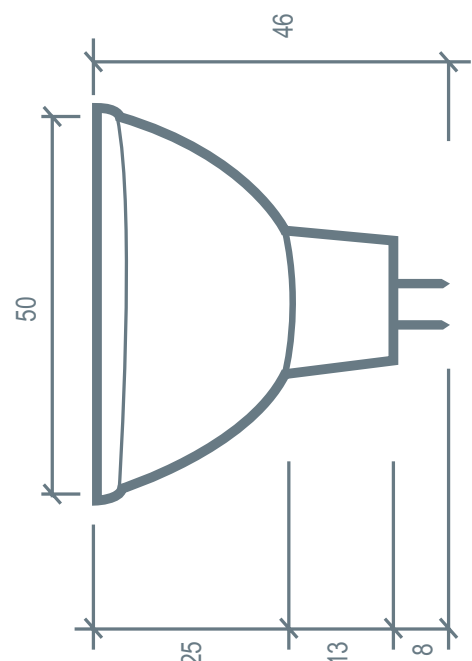
Indoors on 12V AC/DC. Any application where low voltage dimming is required. Typically replaces 40W and 50W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	GU5.3	
LED quantity and type	6x 5630SMDs	
Body finishing	aluminium alloy	Plastic, aluminium
Lens finishing	PC	Frosted glass
Beam angle	120°	30°, 45°, 60°, 90°
Light colour temperature	3000K, 4000K, 6500K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	98%	
% Luminous flux at 6000h	96%	
Failure rate after 2000h	< 3%	
Rated lifetime	35000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	12V AC / DC
Power	5W
Power Factor	>0.7
Luminous flux	230Lm
Luminous efficiency	51Lm/W



Bulbs

PRODUCT CODE: C30-32SMD



PRODUCT DESCRIPTION

Ultra efficient, high intensity LED lamp consisting of 32x 3528 SMDs. Frosted glass is used to diffuse light evenly.

APPLICATION

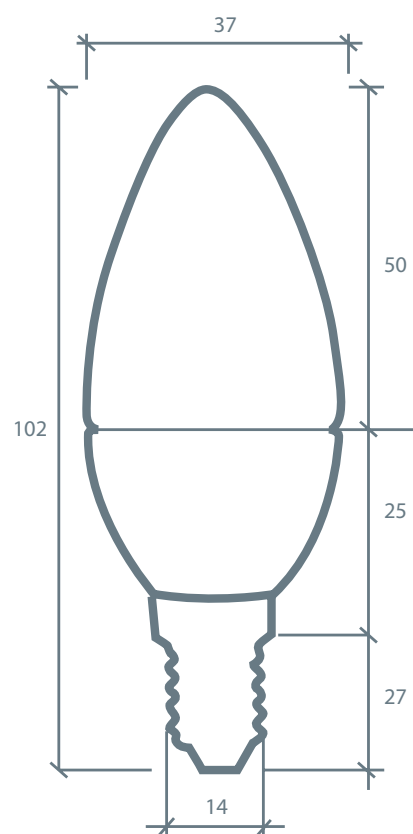
Indoors. Outdoors only in waterproof enclosures. Most commonly used to replace old 40W incandescent candle lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	E27, E14, B22	
LED quantity and type	32x 3014SMDs	
Body finishing	Plastic & Glass	Plastic, aluminium
Lens finishing	Frosted glass	Frosted glass
Beam angle	360°	
Light colour temperature	3000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35,000 hrs	
IP rating	IP20	
Weight	37.5g	

Electrical Specification	Stock Items
Voltage	220-240V AC
Power	3.2W
Power Factor	>0.5
Luminous flux	250Lm
Luminous efficiency	78Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED lamp consisting of 32x 3528 SMDs. Frosted glass is used to diffuse light evenly.

APPLICATION

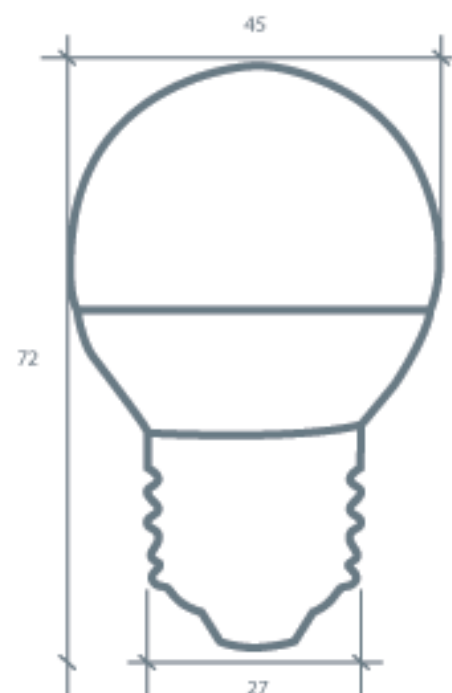
Indoors. Outdoors only in waterproof enclosures. Most commonly used to replace old 40W incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	E27, E14, B22	
LED quantity and type	32x 3014SMDs	
Body finishing	Plastic & Glass	Plastic, aluminium
Lens finishing	Frosted glass	Frosted glass
Beam angle	360°	
Light colour temperature	3000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35,000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	220-240V AC
Power	3.2W
Power Factor	>0.5
Luminous flux	250Lm
Luminous efficiency	78 Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED lamp consisting of 80x 3528 SMDs. Frosted glass is used to diffuse light evenly.

APPLICATION

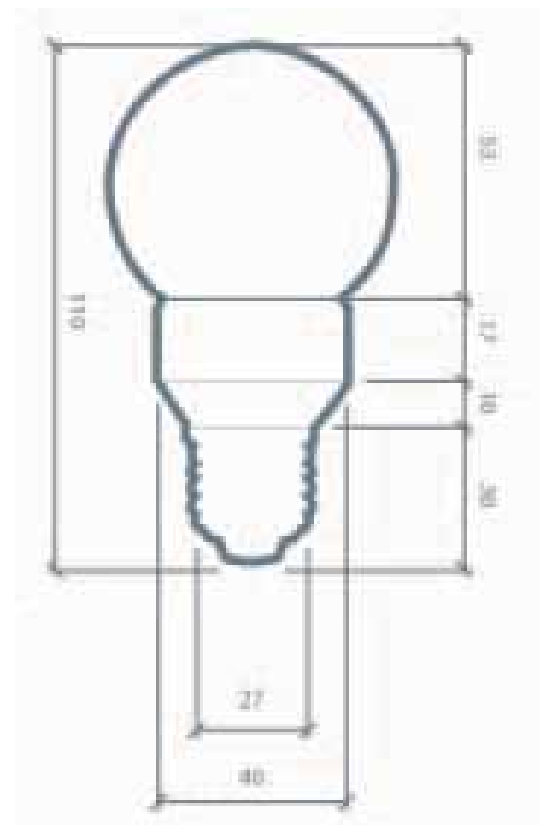
Indoors. Outdoors only in waterproof enclosures. Most commonly used to replace old 60W incandescent lamps.

CERTIFICATION

CE, RoHS, IEC 60598, IEC 62612

Specification	Stock Items	Special Request*
Socket	E27, E14, B22	
LED quantity and type	80x 3528SMDs	
Body finishing	Plastic & Glass	Plastic, aluminium
Lens finishing	Frosted glass	Frosted glass
Beam angle	360°	
Light colour temperature	3000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35,000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	220-240V/AC
Power	4W
Power Factor	>0.5
Luminous flux	320Lm
Luminous efficiency	80Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED lamp consisting of 5x COB LEDs providing roughly 150 Lm each. This is currently the brightest covered E27 lamp in our product range.

APPLICATION

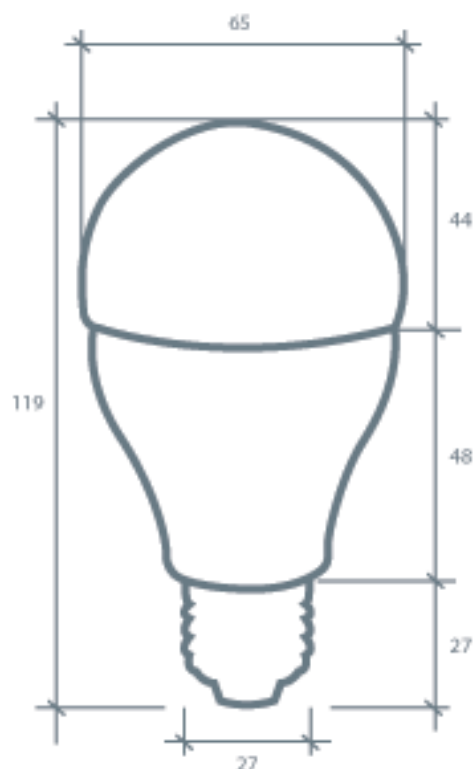
Indoors. Outdoors only in waterproof enclosures. Most commonly used where lots of light is required and the lamp is exposed. Typically replaces 60W - 100W incandescent lamps.

CERTIFICATION

CE, RoHS, IEC 60598, IEC 62612

Specification	Stock Items	Special Request*
Socket	E27, E14, B22	
LED quantity and type	5x COB LEDs	
Body finishing	Ceramic & Glass	Plastic, aluminium
Lens finishing	Frosted glass	Frosted glass
Beam angle	360°	
Light colour temperature	3000K	6500K
CRI (Colour Rendering Index)	80	
% Luminous flux at 3000h	96.80%	
% Luminous flux at 6000h	92.60%	
Failure rate after 2000h	< 3%	
Rated lifetime	35,000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	100V - 250V AC
Power	9W
Power Factor	>0.95
Luminous flux	630Lm
Luminous efficiency	70Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity LED lamp consisting of 108x 5050 SMDs providing roughly 12 Lm each. This is currently the brightest E27 lamp in our product range.

APPLICATION

Indoors. Outdoors only in waterproof enclosures. Most commonly used inside enclosures to cover up the exposed raw LED components. Typically replaces 150W incandescent lamps in street, garden and other outdoor applications.

CERTIFICATION

CE, RoHS

Specification	CORN-10W	CORN-16.5W
Socket	E27, B22	E27, B22
LED quantity and type	72x 5050SMDs	108x 5050SMDs
Body finishing	Plastic	Plastic
Lens finishing	N/A	N/A
Beam angle	360°	360°
Light colour temperature	3000K, 4000K	3000K, 4000K
CRI (Colour Rendering Index)	80	80
% Luminous flux at 3000h	96.80%	96.80%
% Luminous flux at 6000h	92.60%	92.60%
Failure rate after 2000h	< 3%	< 3%
Rated lifetime	35,000 hrs	35,000 hrs
IP rating	IP20	IP20
Size	Ø45 x 120mm	Ø59 x 142mm

Electrical Specification	Stock Items	
Voltage	220-240V AC	220-240V AC
Power	10W	16.5W
Power Factor	>0.8	>0.8
Luminous flux	800Lm	1200Lm
Luminous efficiency	80Lm/W	75 Lm/W



PRODUCT DESCRIPTION

Ultra efficient, high intensity dimmable LED lamp consisting of 6x 5630 SMDs providing roughly 40 Lm each.

APPLICATION

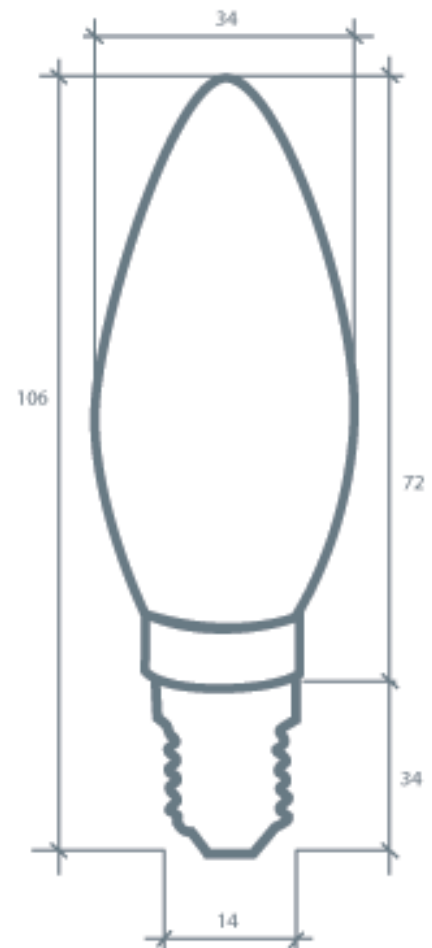
Indoors on 230VAC. Any application where dimming is required. Typically replaces 40W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	E14	
LED quantity and type	6x 5630 SMDs	
Body finishing	aluminium alloy	Plastic, aluminium
Lens finishing	Frosted glass	Frosted glass
Beam angle	360°	
Light colour temperature	3000K	6500K
CRI (Colour Rendering Index)	>80	
% Luminous flux at 3000h	97.00%	
% Luminous flux at 6000h	95.00%	
Failure rate after 2000h	< 3%	
Rated lifetime	30,000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	220-240V AC
Power	3W
Power Factor	>0.8
Luminous flux	210Lm
Luminous efficiency	70Lm/W





PRODUCT DESCRIPTION

Ultra efficient, high intensity dimmable LED lamp consisting of 12x 5630 SMDs providing roughly 40 Lm each.

APPLICATION

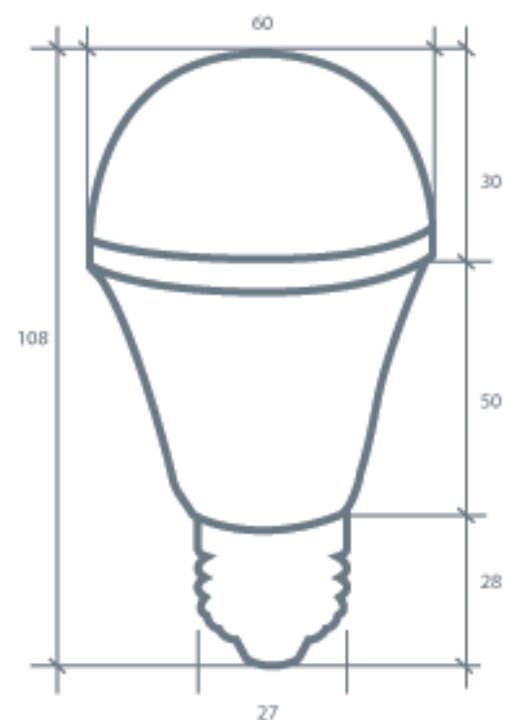
Indoors on 230V AC. Any application where dimming is required. Typically replaces 50 and 60W halogen and incandescent lamps.

CERTIFICATION

CE, RoHS

Specification	Stock Items	Special Request*
Socket	E27	
LED quantity and type	12x 5630 SMDs	
Body finishing	aluminium alloy	Plastic, aluminium
Lens finishing	Frosted glass	Frosted glass
Beam angle	360°	
Light colour temperature	3000K	6500K
CRI (Colour Rendering Index)	>75	
% Luminous flux at 3000h	98.00%	
% Luminous flux at 6000h	96.00%	
Failure rate after 2000h	< 3%	
Rated lifetime	35,000 hrs	
IP rating	IP20	

Electrical Specification	Stock Items
Voltage	220-240V AC
Power	7W
Power Factor	>0.7
Luminous flux	510Lm
Luminous efficiency	73Lm/W



Tubes



PRODUCT DESCRIPTION

An array of 3528 SMDs are used to create similar light to that of fluorescent at roughly 50% the power consumption. The standard beam angle of the LED tube is 120° as opposed to the 360° of fluorescents, however 360° beam tubes can be ordered on request.

APPLICATION

Retrofit for fluorescent tubes. If traditional fittings are used, the ballast and starter needs to be removed. Tubes are mostly used in scenarios where light is only required in 1 broad direction. The 120° angle of the LED tube is therefore fit for purpose. Please enquire about 360° beam tubes if it is required in other applications where all directions need to be lightened up. Please see wiring instruction before installation.

CERTIFICATION

CE, RoHS, IEC 60598

	T8-2FT	T8-3FT	T8-4FT	T8-5FT
Specification				
Socket	Direct wiring	Direct wiring	Direct wiring	Direct wiring
LED quantity and type	60 pcs SMD3035	72 pcs SMD3035	110 pcs SMD3035	144 pcs SMD3035
Body finishing	Aluminium	Aluminium	Aluminium	Aluminium
Lens finishing	PC	PC	PC	PC
Beam angle	130	130	130	130
Light colour temperature	2800-6300K	2800-6300K	2800-6300K	2800-6300K
CRI (Colour Rendering Index)	75	75	75	75
% Luminous flux at 3000h	98.00%	98.00%	98.00%	98.00%
% Luminous flux at 6000h	97.00%	97.00%	97.00%	97.00%
Failure rate after 2000h	1%	1%	1%	1%
Rated lifetime	35000h	35000h	35000h	35000h
IP rating	50	50	50	50
Weight	0.186kg	0.285kg	0.38kg	0.461kg
Size	600mm	900mm	1200mm	1500mm

Electrical Specification				
Voltage	AC180-265V	AC180-265V	AC180-265V	AC180-265V
Power	10W	12W	18W	24W
Power Factor	> 0.9	> 0.9	> 0.9	> 0.9
Luminous flux	1100-1200	1320-1440	1980-2160	2640-2880
Luminous efficiency	110-120Lm/W	110-120Lm/W	110-120Lm/W	110-120Lm/W

Panels



PRODUCT DESCRIPTION

Lumax panels are only 11mm thick with an array of SMDs behind frosted glass. Driven with an external power supply which is provided with each unit.

APPLICATION

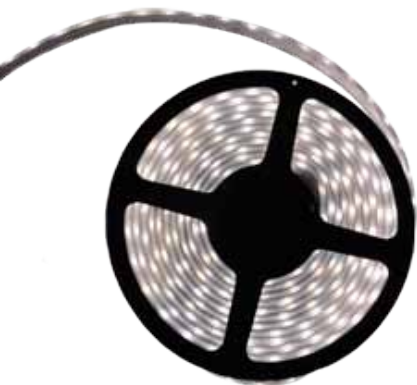
Ideal to mount on flat ceiling structures where no recess space is available such as existing concrete slabs.

CERTIFICATION

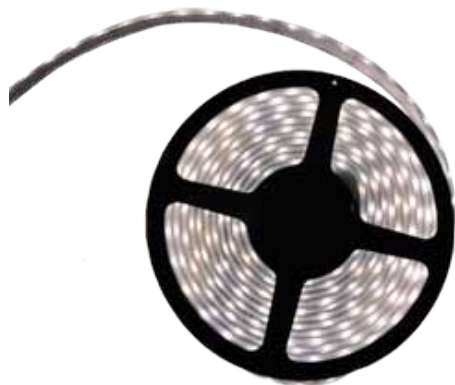
CE, RoHS

	P200-200	P300-300	P600-300	P600-600	P1200-300	P1200-600
Specification	Stock Items	Stock Items	Stock Items	Stock Items	Stock Items	Stock Items
Socket						
LED quantity and type	60x SMD4014	84x SMD4014	156x SMD4014	216x SMD4014	216x SMD4014	432x SMD4014
Body finishing	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Lens finishing	PC	PC	PC	PC	PC	PC
Beam angle	120	120	120	120	120	120
Light colour temperature	2800-6500K	2800-6500K	2800-6500K	2800-6500K	2800-6500K	2800-6500K
CRI (Colour Rendering Index)	80	80	80	80	80	80
% Luminous flux at 3000h	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
% Luminous flux at 6000h	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
Failure rate after 2000h	1%	1%	1%	1%	1%	1%
Rated lifetime	35000h	35000h	35000h	35000h	35000h	35000h
IP rating	44	44	44	44	44	44
Size	195 x 195 x 11.5mm	295 x 295 x 11.5mm	595 x 295 x 11.5mm	595 x 595 x 11.5mm	1195 x 295 x 11.5mm	1195 x 595 x 11.5mm
Weight	0.75kg	1.3 kg	2.8 kg	3.9 kg	4.8 kg	8.8kg
Electrical Specification						
Voltage	90-264VAC	90-264VAC	90-264VAC	90-264VAC	90-264VAC	90-264VAC
Power	12W	18W	32W	42W	42W	83W
Power Factor	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9
Luminous flux	830Lm	1250Lm	2300Lm	3000Lm	3000Lm	5500Lm
Luminous efficiency	70-75Lm/W	70-75Lm/W	70-75Lm/W	70-75Lm/W	70-75Lm/W	70-75Lm/W

Strip Lights



STR-5050



STR-3528



STR-5050-RGB

PRODUCT DESCRIPTION

IP67 rated LED strip light consisting of various number of SMDs per unit length to fulfill a wide variety of lighting need. A silicone tube ensures that the tube is water resistant. A separate power supply is required. Lumax currently offers 36W, 60W and 90W power supplies.

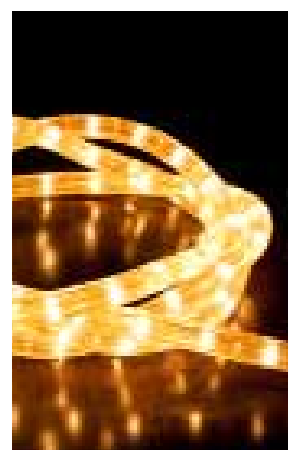
APPLICATION

Indoors and outdoors. Typically used in and under cupboards, over counter tops and selves etc. LED strips are also coming popular creating effects in glass furniture & shelves.

CERTIFICATION

CE, RoHS

	STR-5050	STR-3528	STR-5050-RGB
Specification	Stock Items	Stock Items	Stock Items
LED quantity and type	60x 5050/m	120x 3528/m	30x 5050/m
Body finishing	Flexible PCB	Flexible PCB	Flexible PCB
Lens finishing	Clear silicone	Clear silicone	Clear silicone
Beam angle	120	120	120
Light colour temperature	2700-6500	2700-6500	2700-6500
CRI (Colour Rendering Index)	75	75	75
% Luminous flux at 3000h	95.00%	95.00%	95.00%
% Luminous flux at 6000h	90.00%	90.00%	90.00%
Failure rate after 2000h	1%	1%	1%
Rated lifetime	50,000	50,000	50,000
IP rating	IP33,IP55,IP65,IP67,IP68	IP33,IP55,IP65,IP67,IP68	IP33,IP55,IP65,IP67,IP68
Size	5000 x 10 x 2mm	5000 x 8 x 2mm	5000 x 10 x 2mm
Weight	0.2875kg	0.2875kg	0.2875kg
Electrical Specification			
Voltage	12V/24V/240V	12V/24V/240V	12V/24V/240V
Power	14.4W/m	9.2W/m	7.2W/m
Power Factor	0.6	0.6	0.6
Luminous flux	4200Lm /5m roll	2600Lm /5m roll	2100Lm /5m roll
Luminous efficiency	60Lm/W	60Lm/W	60Lm/W



Flood Lights



PRODUCT DESCRIPTION

Ultra efficient, high intensity single chip LED floodlight providing roughly 85 Lm/W.

APPLICATION

Outdoors. Most commonly used to light up areas around and between houses & buildings for security reasons. Also used for sport stadiums, parking lots, and public areas that requires light. Also used as recessed ceiling lamps.

CERTIFICATION

CE, RoHS, IEC 60598

	10W	20W	30W	50W
Specification	Stock Items	Stock Items	Stock Items	Stock Items
Socket	Direct wiring	Direct wiring	Direct wiring	Direct wiring
LED quantity and type	1x10W	1x20W	1x30W	1x50W
Body finishing	Black/grey metal	Black/grey metal	Black/grey metal	Black/grey metal
Lens finishing	Clear Glass	Clear Glass	Clear Glass	Clear Glass
Beam angle	120°	120°	120°	120°
Light colour temperature	3000K, 5000K, 6500K	3000K, 5000K, 6500K	3000K, 5000K, 6500K	3000K, 5000K, 6500K
CRI (Colour Rendering Index)	80	80	80	80
% Luminous flux at 3000h	98.00%	98.00%	98.00%	98.00%
% Luminous flux at 6000h	96.00%	96.00%	96.00%	96.00%
Failure rate after 2000h	2%	2%	2%	2%
Rated lifetime	50,000h	50,000h	50,000h	50,000h
IP rating	IP65	IP65	IP65	IP65
Size	115 mm x 86 mm x 105 mm	180 mm x 140 mm x 115 mm	220 mm x 185 mm x 115 mm	280 mm x 230 mm x 120 mm
Weight	0.9kg	1.4kg	2kg	3.5kg
Electrical Specification				
Voltage	85V - 265V AC	85V - 265V AC	85V - 265V AC	85V - 265V AC
Power	10W	20W	30W	50W
Power Factor	> 0.8	> 0.8	> 0.8	> 0.8
Luminous flux	900 Lumen	1800 Lumen	2700 Lumen	4500 Lumen
Luminous efficiency	90Lm/W	90Lm/W	90Lm/W	90Lm/W



PRODUCT DESCRIPTION

Ultra efficient, high intensity single chip LED floodlight providing roughly 85 Lm/W.

APPLICATION

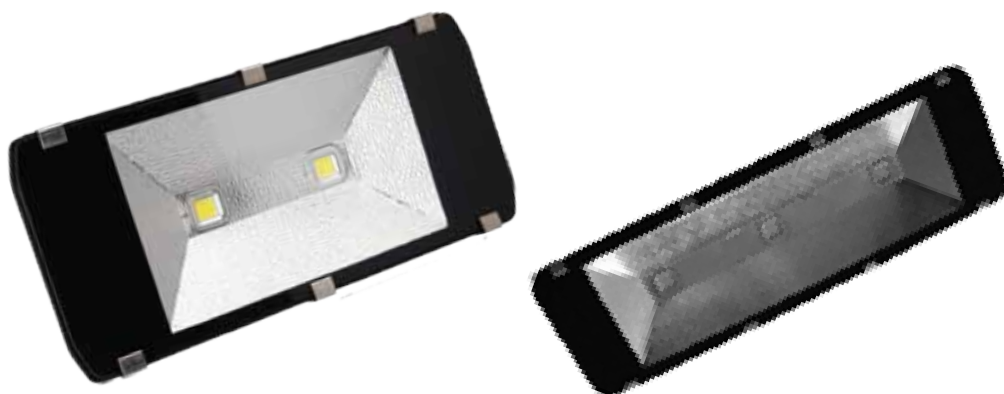
Outdoors. Most commonly used to light up areas around and between houses & buildings for security reasons. Also used for sport stadiums, parking lots, and public areas that requires light.

CERTIFICATION

CE, RoHS, IEC 60598

	80W	100W
Specification	Stock Items	Stock Items
Socket	Direct wiring	Direct wiring
LED quantity and type	1x 80W COB LED	1x 100W COB LED
Body finishing	Black/grey aluminium	Black/grey aluminium
Lens finishing	Clear Glass	Clear Glass
Beam angle	120°	120°
Light colour temperature	3000K, 5000K, 6500K	3000K, 5000K, 6500K
CRI (Colour Rendering Index)	80	80
% Luminous flux at 3000h	98.00%	98.00%
% Luminous flux at 6000h	96.00%	96.00%
Failure rate after 2000h	2%	2%
Rated lifetime	50,000h	50,000h
IP rating	IP65	IP65
Size	W: 280 mm H: 380 mm D: 280 mm	W: 290 mm H: 560 mm D: 280 mm
Electrical Specification		
Voltage	240V AC	240V AC
Power	80W	100W
Power Factor	> 0.8	> 0.8
Luminous flux	6800Lm	8500Lm
Luminous efficiency	85Lm/W	85Lm/W





PRODUCT DESCRIPTION

200W: Ultra efficient, high intensity **dual** LED chip floodlight providing roughly 85 Lm/W.

300W: Ultra efficient, high intensity **triple** LED chip floodlight providing roughly 85 Lm/W.

APPLICATION

Outdoors. Most commonly used to light up areas around and between houses & buildings for security reasons. Also used for sport stadiums, parking lots, and public areas that requires light.

CERTIFICATION

CE, RoHS, IEC 60598

	200W	300W
Specification	Stock Items	Stock Items
Socket	Direct wiring	Direct wiring
LED quantity and type	2x 100W COB LED	3x 100W COB LED
Body finishing	Black/grey aluminium	Black/grey aluminium
Lens finishing	Clear Glass	Clear Glass
Beam angle	120°	120°
Light colour temperature	3000K, 5000K, 6500K	3000K, 5000K, 6500K
CRI (Colour Rendering Index)	80	80
% Luminous flux at 3000h	98.00%	98.00%
% Luminous flux at 6000h	96.00%	96.00%
Failure rate after 2000h	2%	2%
Rated lifetime	50,000h	50,000h
IP rating	IP65	IP65
Size	W: 560 mm H: 290 mm D: 280 mm	W: 800 mm H: 290 mm D: 280 mm
Weight	14.5kg	16.5kg
Electrical Specification		
Voltage	85V - 265V AC	85V - 265V AC
Power	200W	300W
Power Factor	> 0.8	> 0.9
Luminous flux	18000Lm	27000Lm
Luminous efficiency	90Lm/W	90Lm/W





PRODUCT DESCRIPTION

PIR: Ultra efficient, high intensity **single** chip LED floodlight providing roughly 85 Lm/W, combined with a PIR (Passive Infra Red) sensor.

RGB: Ultra efficient, high intensity **single** chip LED floodlight providing roughly 85 Lm/W, The colour can be adjusted with a remote control.

APPLICATION

PIR: Outdoors. Switch on by motion detection. Used to light up areas around and between houses & buildings for security reasons.

RGB: Outdoors. Where effects are required through colour adjustment. Typically used as part of a feature.

CERTIFICATION

CE, RoHS, IEC 60598

	50W	50W	20W
Specification	Stock Items	Stock Items	Stock Items
Socket	Direct wiring	Direct wiring	Direct wiring
LED quantity and type	1x 50W COB LED	1x 50W COB LED	1x 20W COB LED
Body finishing	Black/grey aluminium	Black/grey aluminium	Black/grey aluminium
Lens finishing	Clear glass	Clear glass	Clear glasss
Beam angle	120°	120°	120°
Light colour temperature	3000K, 5000k, 6500k	3000K, 5000k, 6500k	3000K, 5000k, 6500k
CRI (Colour Rendering Index)	>80	>80	>80
% Luminous flux at 3000h	0.98	0.98	0.98
% Luminous flux at 6000h	0.95	0.95	0.95
Failure rate after 2000h	0	0	0
Rated lifetime	50000H	50000H	50000H
IP rating	IP65	IP65	IP65
Size	280 mm x 280 mm x 120 mm	280 mm x 230 mm x 120 mm	180 mm x 140 mm x 115 mm
Weight	3.5kg	3.5kg	1.4KG
Electrical Specification			
Voltage	85V - 265V AC	85V - 265V AC	85V - 265V AC
Power	50W	50W	20W
Power Factor	>0.9	>0.9	>0.9
Luminous flux	4500Lm	4500Lm	1800Lm
Luminous efficiency	90Lm/W	90Lm/W	90Lm/W

High Bays



PRODUCT DESCRIPTION

High power single LED chip lamp in a robust heavy body. Both deep and shallow diffusers (cones) are available to control the beam width.

APPLICATION

Mount in roof structures of warehouses, factories, shops to light up floor space from high above.

CERTIFICATION

CE, RoHS, IEC 60598

	50W	100W	150W	200W
Specification	Stock Items	Stock Items	Stock Items	Stock Items
Socket	Direct wiring	Direct wiring	Direct wiring	Direct wiring
LED quantity and type	1x Bridgelux	1x Bridgelux	1x Bridgelux	1x Bridgelux
Body finishing	Silver / Black	Silver / Black	Silver / Black	Silver / Black
Lens finishing	Clear glass	Clear glass	Clear glass	Clear glass
Beam angle	60°, 120°	60°, 120°	60°, 120°	60°, 120°
Light colour temperature	2700K - 7000K	2700K - 7000K	2700K - 7000K	2700K - 7000K
CRI (Colour Rendering Index)	> 80	> 80	> 80	> 80
% Luminous flux at 3000h	98.00%	98.00%	98.00%	98.00%
% Luminous flux at 6000h	96.00%	96.00%	96.00%	96.00%
Failure rate after 2000h	2%	2%	2%	2%
Rated lifetime	50,000h	50,000h	50,000h	50,000h
IP rating	IP65	IP65	IP65	IP65
Size & Weight (60°)	ø420*501 mm, 4.4kg	ø420*581 mm, 5.3kg	ø420*565 mm, 9.5kg	60deg: ø420*650 mm, 12kg
Size & Weight (120°)	ø500*386 mm, 4.25kg	ø500*466 mm, 5.1kg	ø500*450 mm, 9.5kg	120deg: ø500*500 mm, 12kg

Electrical Specification				
Voltage	85 - 265V AC	85 - 265V AC	85 - 265V AC	85 - 265V AC
Power	50W	100W	150W	200W
Power Factor	0.9	0.9	0.9	0.9
Luminous flux	4000 Lm	8000 Lm	13900 Lm	18500 Lm
Luminous efficiency	> 80 Lm/W	> 80 Lm/W	> 90 Lm/W	> 90 Lm/W

G4-3.6W



G9-3.5W



Rx7s



PL-G24



PRODUCT DESCRIPTION

LED retrofits are available for most of the old technology form factors. Please inquire if any other LED lamp fittings are required.

APPLICATION

As applicable, and where space allows. Some traditional lights were very compact for the amount of light it provides. In some cases the LED counterpart becomes a bit bulky. Continuous product improvement will address this limitation.

CERTIFICATION

CE, RoHS, IEC 60598

	G4-3.6W	G9-3.5W	Rx7s	PL-G24
Specification	Stock Items	Stock Items	Stock Items	Stock Items
Socket	G4	G9	R7S	G24
LED quantity and type	18x 5050SMD	27x 5050SMD	42x 5050SMD	52x 5050SMD
Body finishing	PCB	Plastic	Plastic + Aluminium	Plastic + Aluminium
Lens finishing	N/A	N/A	N/A	N/A
Beam angle	360°	360°	180°	120°
Light colour temperature	3000K	3000K	3000K, 6000K	3000K, 6000K
CRI (Colour Rendering Index)	>70	>70	>80	>80
% Luminous flux at 3000h	96.80%	96.80%	96.80%	96.80%
% Luminous flux at 6000h	92.60%	92.60%	92.60%	92.60%
Failure rate after 2000h	< 3%	< 3%	< 3%	< 3%
Rated lifetime	35000 hrs	35000 hrs	35000 hrs	35000 hrs
IP rating	IP44	IP44	IP44	IP44
Size	ø13mm x 26mm	ø32mm x 77mm	118mm	149 x 35mm
Electrical Specification				
Voltage	12 V AC/DC	100V - 250V AC	85V-265V AC	85V-265V AC
Power	2.6W	3.5W	10W	10W
Power Factor	0.5	0.5	0.7	0.8
Luminous flux	220Lm	320Lm	700Lm	900Lm
Luminous efficiency	84 Lm/ W	90 Lm/W	70Lm/W	90Lm/W





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