

Life IN Light

MEGAMAN®

LED product guide 2014 / 15



www.megaman.cc

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WHO WE ARE

Artificial light enhances the way we live and work. It brings us safety, comfort and productivity. MEGAMAN® is committed to providing light in a way that is truly sustainable, energy-efficient and of such quality that it brings a positive difference to the lives of all who use the company's innovative Light Emitting Diode (LED) or Compact Fluorescent Lamp (CFL) light sources.

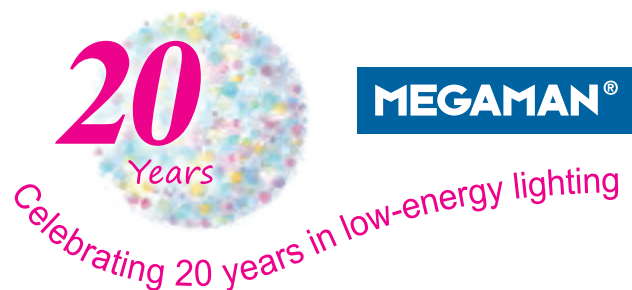
MEGAMAN®, a global leader in energy-efficient lighting since 1994, has created an exciting range of high-performance LED and CFL light sources that offers a true replacement for traditional metal halide, halogen and incandescent equivalents. The unique MEGAMAN® range of energy-efficient light sources is renowned for combining quality lighting performance with substantial energy savings:

- The MEGAMAN® range now includes more than four hundred high-quality light sources
- MEGAMAN® lamps sell in more than 90 countries across Europe, Asia-Pacific, the Middle East, Africa, and North and South America
- MEGAMAN® is committed to innovation and the environmental protection
- The advanced research and development facilities of MEGAMAN® ensure that a continuous supply of new and exciting energy-efficient light sources come to market every year.

MEGAMAN® is now stepping its 20th anniversary in low-energy lighting. It is the only major brand to have exclusively manufactured low-energy lighting products throughout its 20-year history. The success of MEGAMAN® has been built on our innovation, technology and experience – our ability to design and develop new lighting products which enable us to maintain and expand our leading market position.

MEGAMAN® strives to make eco-friendly products by putting sustainability as a core value in the value chain and we see an equal acceleration in our LED innovations. Our LED product range offers a high degree of flexibility and design freedom for customers, both in terms of addressing future advances in LED technology, as well as offering a wide range of colour and output choices.

In today's global business environment, we face challenges like combat climate change and decarbonize energy supplies. We must continue to play a leadership role in seeking solutions for these global transformational issues and it is clear that we will need technology breakthrough as well as innovative LED lighting solutions if we are to achieve our full ambition by the end of the decade.



MEGAMAN® MILESTONES



- 2014** LED Classic with 360° illumination
- 2013** TECOH® LED Modules: RDx and FLx
Incanda-LED
- 2012** TECOH® LED Module and Light Engine: MHx, CFx
First Zhaga certification
T8 Professional for even light distribution
- 2010** R9 technology
LED Classic Dimmable feature
Regional Headquarters opens in Latin America
- LED Non-Directional Lamps
LED Reflectors
International office for Professional Marketing opens in Europe
- 2009** Patented PowerLens technology
LED Reflectors with TCH technology
NVLAP Lab Certification
- 2008** Industry First Plug-in lamp with integral ballast – PLi
Amalgam is employed in full series CFL
- 2007** DIMMERABLE® technology introduced
for linear dimming lamps
- 2005** DorS technology introduced for step dimming lamps
Industry First RoHS compliant CFL
MEGAMAN® goes global, selling lamps in over 90 countries
- 2004** *INGENIUM*® technology introduced
- 2002** Industry First CFL GU10 Reflector
Silicone Protection technology
- 1999** Patented Cooling-Tube technology
- 1997** Industry First Candle-shaped CFL
- 1996** Industry First Classic-shaped CFL
- 1994** MEGAMAN® incorporated



Rigorous Quality and Management Systems

All MEGAMAN® products are designed, tested and produced in its state-of-the-art factories in Xiamen, China. Standards have been implemented factory-wide to ensure the MEGAMAN® manufacturing processes deliver innovative, reliable and safe products with high-quality standards now and in the future.

To ensure that MEGAMAN® products comply with the highest quality standards, company manufacturing plants are equipped with state-of-the-art assembly lines. The in-house laboratory is ISO 17025 certified by CNAS and NVLAP, and is eligible to perform on-site testing for UL, SEMKO and TUV marks.

The MEGAMAN® business runs under the most stringent management and quality systems. The green elements of the production process are maximised, employee welfare is prioritised and the company is socially responsible to the local community. To continually develop these areas, MEGAMAN® has undertaken a range of international accreditations. These include:

Quality Management System

MEGAMAN® lamps are manufactured and certified to ISO 9001:2008, ISO 14001:2004, ISO 14064-1:2006, OHSAS 18001:1999, SA 8000:2008 and QC 080000:2005.

Corporate Social Responsibility

MEGAMAN® has received OHSAS 18001:1999 and SA 8000:2008, confirming the level of care for employees and reinforcing the company's pledge to be socially responsible.

Controlling the use of hazardous substances

MEGAMAN® plants are QC 080000 certified, underlining the fact that company manufacturing processes are closely monitored to ensure ultimate control of hazardous substances.



Product Quality Assurance

MEGAMAN® lamps are made using premium quality materials and innovative technologies within stringent control measures, to deliver maximum performance and energy efficiencies.



Innovative and Unique Products

With our patented LED design and technology, the MEGAMAN® LED lamp is able to deliver superb performance, including low power consumption, excellent light output and low maintenance costs. It provides the highest quality lighting performance of any LED-based product on the market consuming the same power!

Opening a new era in LED lighting solutions

Unique Features

- Perfect alternative to traditional metal halide, halogen and incandescent lamps
- High colour rendering up to Ra94
- High colour temperature consistency
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Long lamp life up to 40,000 hours
- Up to 91% energy savings
- Emits one-third of the heat of traditional light sources
- No UV and IR radiation
- Different colour temperature options of Mellotone, Warm White, Cool White and Brilliant Tone
- Options of different beam angles for the LED Reflector series

Additional Benefits

- Mercury-free
- Instant start-up
- Wide range of operating temperatures (-30°C to +40°C)

Applications

- Boutiques / Shops
- Shopping Malls
- Hotels / Restaurants / Lounges
- Museums
- Galleries
- Offices
- Household



MEGAMAN® TECHNOLOGY



Thermal Conductive Highway™

MEGAMAN® lamps are a little different to the usual lens-style LED lamps found in the market, as MEGAMAN® makes use of a reflector design and employs Thermal Conductive Highway™ (TCH) technology that gives the most efficient LED lighting solution with the benefits of efficient heat dissipation, better beam control and excellent optical efficiency as well as low glare lighting.

Optimum Thermal Control

The MEGAMAN® patented TCH technology uses a unique design of heat drain across the reflector that allows the LEDs to dissipate heat efficiently via the heat sink and prevents deterioration of the LED multi-chip array and other components. The technology also gives the lamps a longer life with high lumen maintenance, resulting in a rated lumen maintenance life of 70 (L70) at up to 50,000 hours.

Deliver Comfortable Lighting

The unique approach that MEGAMAN® takes with axial LED geometry facilitates the use of reflectors with all the associated advantages of precise beam control and allows lumens to be where they are wanted with less glare.

Excellent Optical Efficiency

The technology of using reflectors for light sources is mature and widely used because of the technology's extremely high optical efficiency of up to 98%. Due to this high optical

efficiency, energy loss is minimised, creating a very effective energy-saving solution.

True Replacement of Traditional Lamps

A reflector can spread a predefined portion of illumination from a light source to deliver the designed light distribution. The use of reflectors also dramatically reduces the amount of light spillage from outside the designated beam angle. LED spotlights with reflectors are more aesthetically pleasing and conform to the expected appearance of a spotlight.



MEGAMAN® LED reflectors



Common lens-style LED lamps in the market



Product Series

As a leading innovator of LED technology, MEGAMAN® has developed an extensive range of LED products for various domestic and commercial applications. Our products are classified into three main categories, namely Professional, Smart and Economy series. Each series has its own features designed to meet every need of the consumers and professionals.

Professional Series

Suitable for commercial and high-end interior applications, the Professional Series delivers high quality and comfortable light source. This series possess the advantages of powerful lighting performance, perfect optical design and excellent colour rendering. Having a similar profile as traditional halogen lamps, this series is designed with the patented Thermal Conductive Highway™ (TCH) technology for maximum durability and value over lifetime.

Smart Series

This series is a value-added option for discerning consumers looking for high quality lighting at affordable prices. Featuring superb light output with high efficacy and performance, the Smart Series is an ideal replacement for traditional incandescent or halogen lamps. The benefits of energy savings up to 89% and longer lamp life add to its appeal for smart consumers.

Economy Series

The most economical option among all series which serves an entry-level LED solution to replace halogen, incandescent and CFL lamps. Its 15,000 hours of rated lamp life and high energy-savings are simply the best advantages over traditional lighting products. With good quality guaranteed, it is the ultimate no-frill option for every consumer with budget concerned.

For LED T8 series, the following categories are available:

Professional Series

Featuring high-power light output, the LED T8 tubes in the Professional Series have clear advantages over the fluorescent T8 tubes for its excellent power savings, low maintenance cost, and longer lamp life up to 50,000 hours, instant start function and compliance with VDE safety requirement. Professional users will certainly see the maximum value of this series over its lifetime.

Economy Series

An economical and extremely affordable solution as compared to the Professional Series. Having a long rated life of up to 40,000 hours and good quality in terms of materials and light output, the LED T8 tubes in the Economy Series are suitable for a wide range of applications in household or retail settings.



LED REFLECTORS

- MR11
- MR16
- PAR16
- R50
- PAR20
- R63
- R80
- PAR30S & PAR30
- PAR30L
- PAR38
- AR111
- GX53

LED REFLECTORS

MR11

Ideal retrofit for halogen spot lighting

MEGAMAN® LED MR11 reflector lamp offers a long rated life of 25,000 hours and is an ideal replacement for halogen, providing significant energy savings and less heat output. With both Warm White (2800K) and Cool White (4000K) available, the lamp gives a crisp light with a 36° beam angle that is excellent for use in merchandise display areas.

Product Features

- Perfectly replaces the existing halogen MR11 to illuminate your product displays
- Offers excellent light output of 600cd with 4W power consumption and a 36° beam angle to replace the 20W halogen MR11
- Maintains high light output for a long time; rated lumen maintenance life of 70 (L70) at 50,000 hours
- Generates much less heat than a halogen lamp
- Energy savings of 80%
- Works with most AC/DC 12V halogen transformers*
- Alternative to halogen transformer: applicable LED constant voltage converter LD0106-K12 and LED electronic transformer LD0216-K12; please refer to page 132 to 135 for product details
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of recommended halogen transformers.

LED REFLECTORS

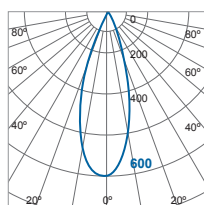
MR11



AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Professional Series										
ER2304-20H36D-GU4-2800K-12V	4	600	36	230	80	25000	35	42	24	A+
ER2304-20H36D-GU4-4000K-12V	4	600	36	230	80	25000	35	42	24	A+

ER2304-20H36D



m	Lux	Ø cm
0.5	2400	32
1	600	65
1.5	267	97
2	150	130

Beam angle = 36°

LED REFLECTORS

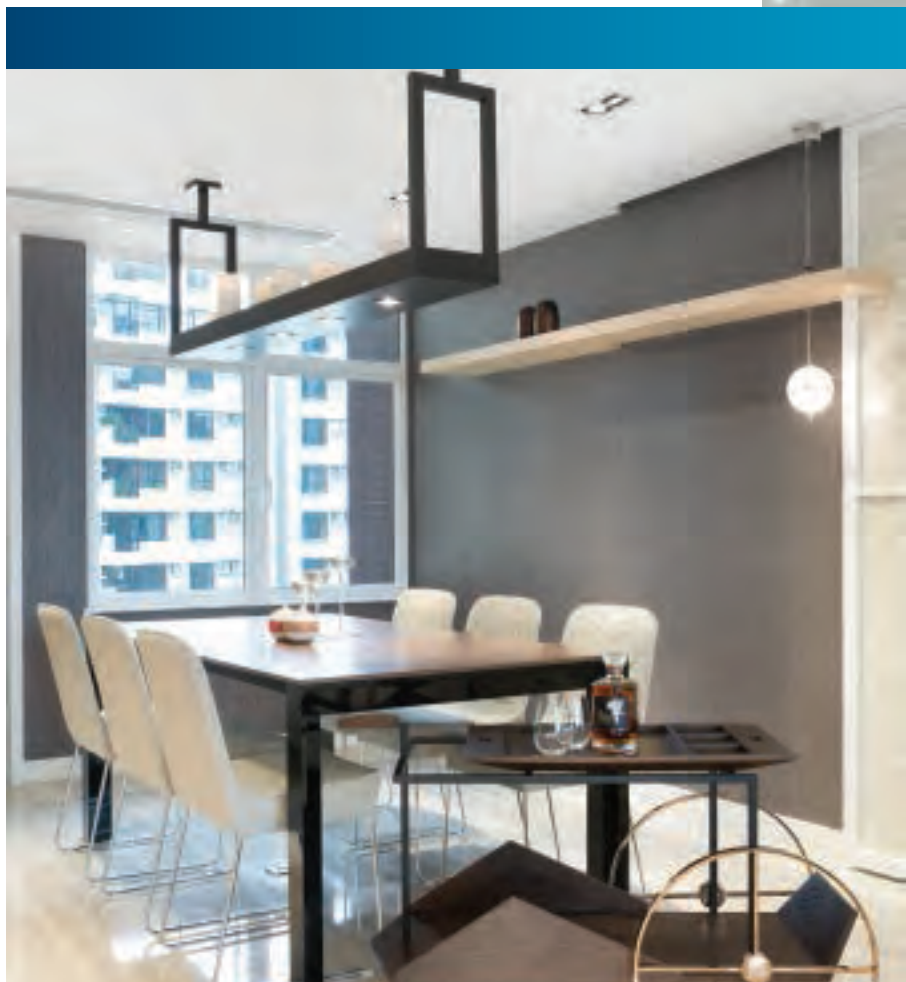
MR16

An eco-conscious alternative to the halogen MR16 with the same compact profile

Designed for MR16 applications, the MEGAMAN® LED MR16 reflector has the same compact profile as the halogen MR16 and delivers excellent lighting performance, which will be familiar to customers. Available in linear dimming, the lamps are a perfect substitute for the halogen MR16.

Product Features

- Directly replaces traditional halogen equivalents in size and shape
- Delivers supreme light output of up to 5000cd with 7.5W power consumption and a 12° beam angle that is an ideal alternative to the 50W halogen MR16
- Different beam angle options available to cater for various applications
- Linear dimming versions available[#]
- Excellent colour rendering of up to Ra85
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour rendering consistency
- Works with most AC/DC 12V halogen transformers[#]
- Alternative to halogen transformer: applicable LED constant voltage converter LD0106-K12 and LED electronic transformer LD0216-K12; please refer to page 131-134 for product details
- Operating temperature: -30°C to +40°C



[#] Please visit www.megaman.cc/user-guide for a list of compatible dimmers and recommended halogen transformers.



LED REFLECTORS MR16

LED by
MEGAMAN®



Accent lighting

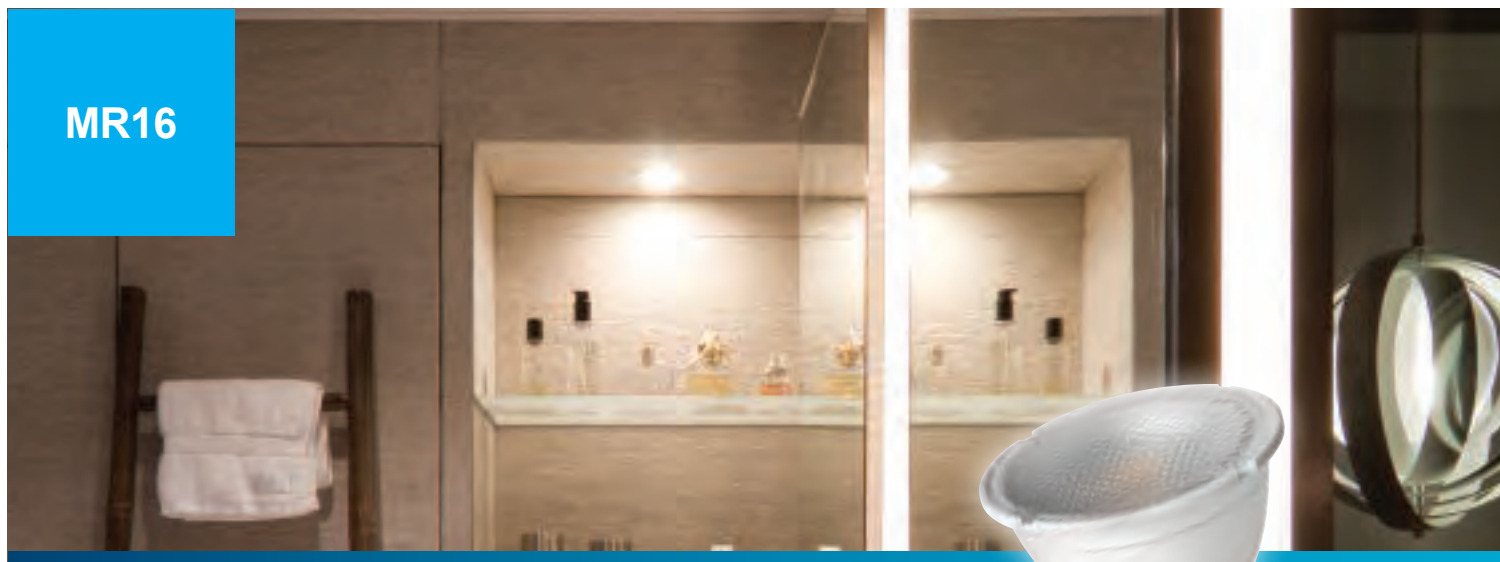
Accent lighting is used to illuminate focal points or key objects against the surrounding landscape. This adds to the drama, style or mood of a room by highlighting certain aspects of a room's decor. In accent lighting applications, the beam angle of the LED reflector is well controlled, allowing the lumens to be where they are wanted and with less glare. The colour and excitement you can add to your business with LED accent lighting can be a game changer. It's ideal for projects such as restaurant to create mood, or a retail shop for eye-catching window displays.

Ambient lighting

Ambient lighting is a uniform illumination to serve as background light in the room. In contrast to accent lighting, ambient lighting comes from all direction and has no visible source. In ambient lighting, the LED reflector spreads a predefined amount of illumination to deliver an even light distribution. Also known as general or overall lighting, it radiates a comfortable level of brightness without glare for people to perform general tasks. Having a general source of ambient light is fundamental to good interior designs. As its operating hours are usually longer, energy-saving LED lamps will be a smart choice.

LED REFLECTORS





MR16



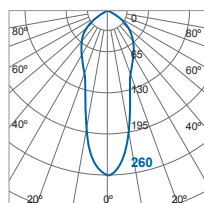
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Ambient Lighting

AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label	Product Photo
Economy Series											
ER2404DG-WFL-GU5.3-2800K-12V 	4	260	WFL (36°)	220	80	15000	50	47	28	A+	1
ER2404DG-WFL-GU5.3-4000K-12V 	4	260	WFL (36°)	220	80	15000	50	47	28	A+	1
ER2405DG-WFL-GU5.3-2800K-12V 	5	360	WFL (36°)	330	80	15000	50	47	28	A+	1
ER2405DG-WFL-GU5.3-4000K-12V 	5	360	WFL (36°)	330	80	15000	50	47	28	A+	1

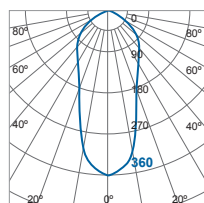
ER2404DG-WFL



m	Lux	Ø cm
0.5	1040	32
1	260	65
1.5	116	97
2	65	130

Beam angle = 36°

ER2405DG-WFL



m	Lux	Ø cm
0.5	1440	32
1	360	65
1.5	160	97
2	90	130

Beam angle = 36°



2



Dimmable on Dimmer Switches



3



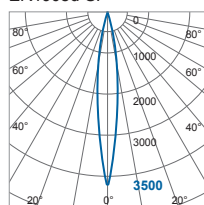
Dimmable on Dimmer Switches

Accent Lighting

AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series												
ER1908d-SP-GU5.3-2800K-12V	8	3500	SP (12)	400	82	25000	50	73	96	100-10%	A	2
ER1908d-SP-GU5.3-4000K-12V	8	3500	SP (12)	400	85	25000	50	73	96	100-10%	A	2
ER2508dLN-FL-GU5.3-2800K-12V	8	2900	FL (24)	450	82	25000	50	51	54	100-10%	A	3
ER2508dLN-FL-GU5.3-4000K-12V	8	2900	FL (24)	450	85	25000	50	51	54	100-10%	A	3
ER2508dLN-WFL-GU5.3-2800K-12V	8	1600	WFL (36)	450	82	25000	50	51	54	100-10%	A	3
ER2508dLN-WFL-GU5.3-4000K-12V	8	1600	WFL (36)	450	85	25000	50	51	54	100-10%	A	3

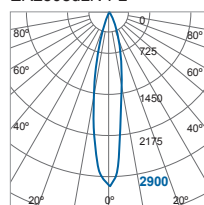
ER1908d-SP



m	Lux	Ø cm
0.5	14000	11
1	3500	21
1.5	1556	32
2	875	42

Beam angle = 12°

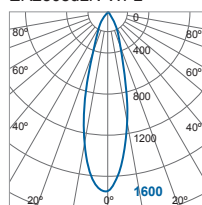
ER2508dLN-FL



m	Lux	Ø cm
0.5	11600	21
1	2900	43
1.5	1289	64
2	725	85

Beam angle = 24°

ER2508dLN-WFL



m	Lux	Ø cm
0.5	6400	32
1	1600	65
1.5	711	97
2	400	130

Beam angle = 36°

Compatible halogen transformer list is available at www.megaman.cc/user-guide.

Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

Products for ambient lighting are available, please contact us for details.

LED REFLECTORS

MR16



NEW

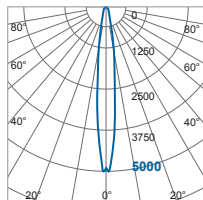
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Accent Lighting

AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series												
ER2607.5LN-SP-GU5.3-2800K-12V*	7.5	5000	SP (12)	500	82	25000	50	51	43	No	A+	1
ER2607.5LN-SP-GU5.3-4000K-12V*	7.5	5000	SP (12)	500	85	25000	50	51	43	No	A+	1
ER2607.5LN-FL-GU5.3-2800K-12V	7.5	3200	FL (24)	500	82	25000	50	51	43	No	A+	1
ER2607.5LN-FL-GU5.3-4000K-12V	7.5	3200	FL (24)	500	85	25000	50	51	43	No	A+	1
ER2607.5LN-WFL-GU5.3-2800K-12V	7.5	1800	WFL (36)	500	82	25000	50	51	43	No	A+	1
ER2607.5LN-WFL-GU5.3-4000K-12V	7.5	1800	WFL (36)	500	85	25000	50	51	43	No	A+	1

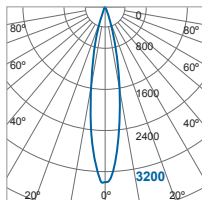
ER2607.5LN-SP



m	Lux	Ø cm
0.5	20000	11
1	5000	21
1.5	2222	32
2	1250	42

Beam angle = 12°

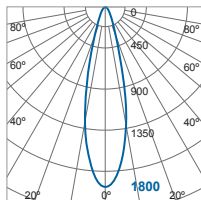
ER2607.5LN-FL



m	Lux	Ø cm
0.5	12800	21
1	3200	43
1.5	1422	64
2	800	85

Beam angle = 24°

ER2607.5LN-WFL



m	Lux	Ø cm
0.5	7200	32
1	1800	65
1.5	800	97
2	450	130

Beam angle = 36°

* Preliminary data

Compatible halogen transformer list is available at www.megaman.cc/user-guide.

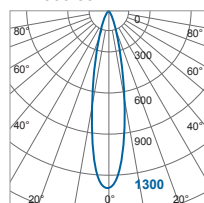
Products for ambient lighting are available, please contact us for details.



Accent Lighting AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
ER1006-35H24D-GU5.3-2800K-12V	6	1300	24	240	82	25000	50	51	60	No	A	2
ER1006-35H24D-GU5.3-4000K-12V	6	1300	24	240	85	25000	50	51	60	No	A	2
ER1006-35H36D-GU5.3-2800K-12V	6	600	36	240	82	25000	50	51	60	No	A	2
ER1006-35H36D-GU5.3-4000K-12V	6	600	36	240	85	25000	50	51	60	No	A	2
ER1708d-50H24D-GU5.3-2800K-12V	8	2000	24	430	82	25000	50	62	91	100-10%#	A	3
ER1708d-50H24D-GU5.3-4000K-12V	8	2000	24	430	85	25000	50	62	91	100-10%#	A	3
ER1708d-50H36D-GU5.3-2800K-12V	8	1100	36	430	82	25000	50	62	91	100-10%#	A	3
ER1708d-50H36D-GU5.3-4000K-12V	8	1100	36	430	85	25000	50	62	91	100-10%#	A	3

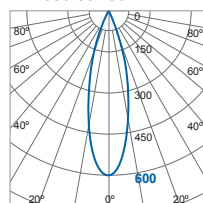
ER1006-35H24D



m	Lux	Ø cm
0.5	5200	21
1	1300	43
1.5	578	64
2	325	85

Beam angle = 24°

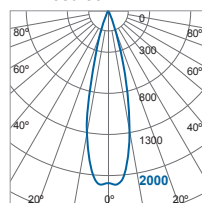
ER1006-35H36D



m	Lux	Ø cm
0.5	2400	32
1	600	65
1.5	267	97
2	150	130

Beam angle = 36°

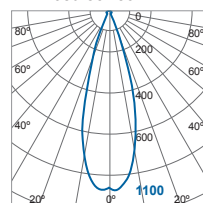
ER1708d-50H24D



m	Lux	Ø cm
0.5	8000	21
1	2000	43
1.5	889	64
2	500	85

Beam angle = 24°

ER1708d-50H36D



m	Lux	Ø cm
0.5	4400	32
1	1100	65
1.5	489	97
2	275	130

Beam angle = 36°

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.
Compatible halogen transformer list is available at www.megaman.cc/user-guide.

LED REFLECTORS

MR16

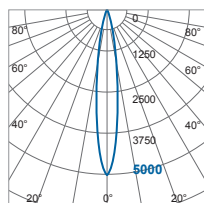


Accent Lighting

460mA (DC20V) | Driven by LED Converter

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
ER1810-50H12D-GU5.3-2800K	10	5000	12	580	82	30000	50	82	108	100-1%	A	1
ER1810-50H12D-GU5.3-4000K	10	5000	12	580	85	30000	50	82	108	100-1%	A	1
ER0510-50H24D-GU5.3-2800K	10	3300	24	620	82	30000	50	82	123	100-1%	A	2
ER0510-50H24D-GU5.3-4000K	10	3300	24	620	85	30000	50	82	123	100-1%	A	2
ER0510-50H36D-GU5.3-2800K	10	1500	36	700	82	30000	50	82	123	100-1%	A	2
ER0510-50H36D-GU5.3-4000K	10	1500	36	700	85	30000	50	82	123	100-1%	A	2

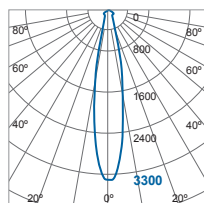
ER1810-50H12D



m	Lux	Ø cm
0.5	20000	11
1	5000	21
1.5	2222	32
2	1250	42

Beam angle = 12°

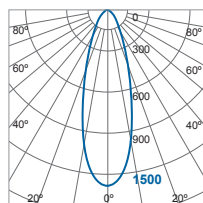
ER0510-50H24D



m	Lux	Ø cm
0.5	13200	21
1	3300	43
1.5	1467	64
2	825	85

Beam angle = 24°

ER0510-50H36D



m	Lux	Ø cm
0.5	6000	32
1	1500	65
1.5	667	97
2	375	130

Beam angle = 36°



Suggested LED Converter:
LD0110x1v-C460

Capable of linear dimming from 100% to 1% when connected to a DC1-10V dimming driver and a DC1-10V dimmer; please refer to page 130 for details of the LED converter.



LED REFLECTORS

PAR16

LED PAR16's multiple beam angles best fit to multi-purpose lighting

Designed to replace the halogen PAR16, MEGAMAN® LED PAR16 reflector series shares the same compact profile as its halogen counterparts. Available in multiple beam angle options with superior lighting efficacy, the LED PAR16 series is a best fit to multi-purpose applications: be it accent lighting for display items or ambient lighting for a cosy look and feel. Its advanced features include:

Product Features

- A whole range of lamp models that replace 20W to 50W halogen lamps
- Excellent light output of up to 525lm with 7W power consumption only
- 100% to 10% linear dimming version available*
- Different beam angle options available to cater for various applications
- Excellent colour rendering of up to Ra85
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour temperature consistency
- Save up to 86% energy
- Generates much less heat than a halogen lamp
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.



LED REFLECTORS PAR16



LED by
MEGAMAN®

Accent lighting



Accent lighting is used to illuminate focal points or key objects against the surrounding landscape. This adds to the drama, style or mood of a room by highlighting certain aspects of a room's decor. In accent lighting applications, the beam angle of the LED reflector is well controlled, allowing the lumens to be where they are wanted and with less glare. The colour and excitement you can add to your business with LED accent lighting can be a game changer. It's ideal for projects such as restaurant to create mood, or a retail shop for eye-catching window displays.

Ambient lighting

Ambient lighting is a uniform illumination to serve as background light in the room. In contrast to accent lighting, ambient lighting comes from all direction and has no visible source. In ambient lighting, the LED reflector spreads a predefined amount of illumination to deliver an even light distribution. Also known as general or overall lighting, it radiates a comfortable level of brightness without glare for people to perform general tasks. Having a general source of ambient light is fundamental to good interior designs. As its operating hours are usually longer, energy-saving LED lamps will be a smart choice.

LED REFLECTORS

PAR16

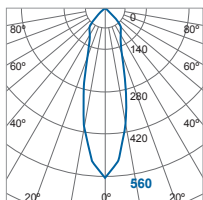


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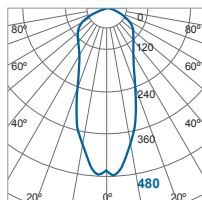
Ambient Lighting 220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label	Product Photo
Economy Series											
LR2104DG-WFL-GU10-2800K-230V	4	560	WFL (35)	250	80	15000	50	57	32	A+	1
LR2104DG-WFL-GU10-4000K-230V	4	560	WFL (35)	250	80	15000	50	57	32	A+	1
LR2105DG-WFL-GU10-2800K-230V	5	480	WFL(40)	360	80	15000	50	57	33	A+	1
LR2105DG-WFL-GU10-4000K-230V	5	480	WFL(40)	360	80	15000	50	57	33	A+	1

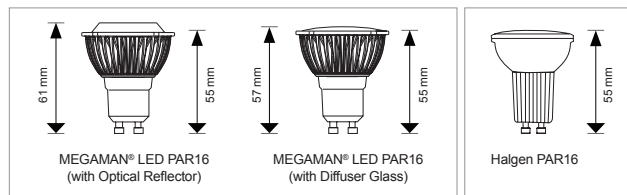
LR2104DG-WFL



LR2105DG-WFL



True size replacement for PAR16



Very Wide Flood (VWFL) beam angle option is available; please contact us for details.



2

100%
Linear Dimming
Dims on Dimmer Switches

NEW

3

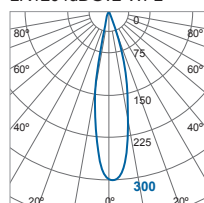
100%
Linear Dimming
Dims on Dimmer Switches

Ambient Lighting

220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series												
LR1204dDGv2-WFL-GU10-2800K-230V	4	300	WFL (35)	280	80	25000	50	57	47	100-10%#	A+	2
LR1204dDGv2-WFL-GU10-4000K-230V	4	300	WFL (35)	280	80	25000	50	57	47	100-10%#	A+	2
LR1204DGv2-WFL-GU10-2800K-230V	4	300	WFL (35)	320	80	25000	50	57	35	No	A++	2
LR1204DGv2-WFL-GU10-4000K-230V	4	300	WFL (35)	320	80	25000	50	57	35	No	A++	2
LR2106dDG-WFL-GU10-2800K-230V*	6	480	WFL (40)	360	80	25000	50	57	33	100-10%#	A+	3
LR2106dDG-WFL-GU10-4000K-230V*	6	480	WFL (40)	360	80	25000	50	57	33	100-10%#	A+	3

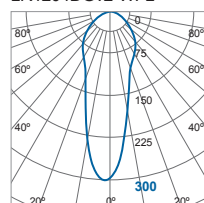
LR1204dDGv2-WFL



m	Lux	Ø cm
0.5	1200	32
1	300	63
1.5	133	95
2	75	126

Beam angle = 35°

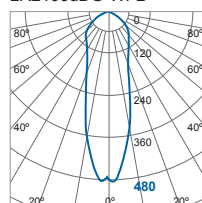
LR1204DGv2-WFL



m	Lux	Ø cm
0.5	1200	32
1	300	63
1.5	133	95
2	75	126

Beam angle = 35°

LR2106dDG-WFL



m	Lux	Ø cm
0.5	1920	36
1	480	73
1.5	213	109
2	120	146

Beam angle = 40°

Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data

Products for accent lighting and with Very Wide Flood (VWFL) beam angle are available, please contact us for details.

LED REFLECTORS

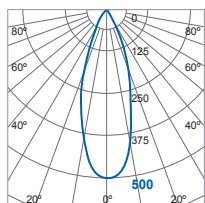
PAR16



Ambient Lighting 220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series												
LR1206dDGv2-WFL-GU10-2800K-230V	6	500	WFL (35)	410	80	25000	50	57	71	100-10%#	A+	1
LR1206dDGv2-WFL-GU10-4000K-230V	6	500	WFL (35)	410	80	25000	50	57	71	100-10%#	A+	1
LR2307dDG-WFL-GU10-2800K-230V	7	650	WFL (35)	500	82	25000	50	57	67	100-10%#	A+	2
LR2307dDG-WFL-GU10-4000K-230V	7	650	WFL (35)	500	85	25000	50	57	67	100-10%#	A+	2
LR2307DG-WFL-GU10-2800K-230V	7	650	WFL (35)	525	82	25000	50	57	65	No	A+	2
LR2307DG-WFL-GU10-4000K-230V	7	650	WFL (35)	525	85	25000	50	57	65	No	A+	2

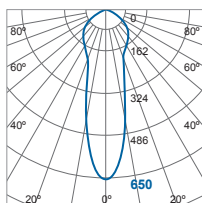
LR1206dDGv2-WFL



m	Lux	Ø cm
0.5	2000	32
1	500	63
1.5	222	95
2	125	126

Beam angle = 35°

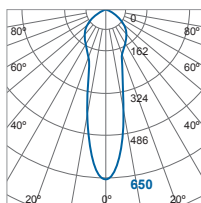
LR2307dDG-WFL



m	Lux	Ø cm
0.5	2600	32
1	650	63
1.5	289	95
2	163	126

Beam angle = 35°

LR2307DG-WFL



m	Lux	Ø cm
0.5	2600	32
1	650	63
1.5	289	95
2	163	126

Beam angle = 35°

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.
Products for accent lighting are available, please contact us for details.



3

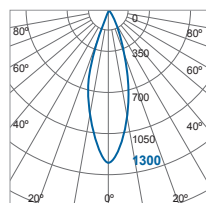
4

Linear Dimming
100%
Dims on Dimmer Switches

Accent Lighting 220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
LR1506-35H24D-GU10-2800K-230V	6	1300	24	300	82	25000	50	64	70	No	A	3
LR1506-35H24D-GU10-4000K-230V	6	1300	24	300	85	25000	50	64	70	No	A	3
LR1506-35H35D-GU10-2800K-230V	6	600	35	300	82	25000	50	64	70	No	A	3
LR1506-35H35D-GU10-4000K-230V	6	600	35	300	85	25000	50	64	70	No	A	3
LR2008d-50H24D-GU10-2800K-230V	8	2200	24	450	82	25000	50	70	98	100-10%*	A	4
LR2008d-50H24D-GU10-4000K-230V	8	2200	24	450	85	25000	50	70	98	100-10%*	A	4
LR2008d-50H35D-GU10-2800K-230V	8	1200	35	480	82	25000	50	70	107	100-10%*	A	4
LR2008d-50H35D-GU10-4000K-230V	8	1200	35	480	85	25000	50	70	107	100-10%*	A	4

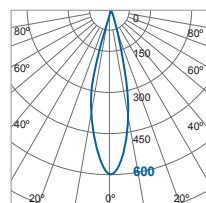
LR1506-35H24D



m	Lux	Ø cm
0.5	5200	21
1	1300	43
1.5	578	64
2	325	85

Beam angle = 24°

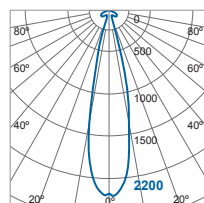
LR1506-35H35D



m	Lux	Ø cm
0.5	2400	32
1	600	65
1.5	267	97
2	150	130

Beam angle = 35°

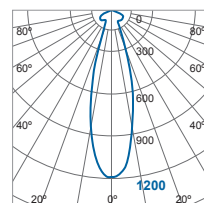
LR2008d-50H24D



m	Lux	Ø cm
0.5	8800	21
1	2200	43
1.5	978	64
2	550	85

Beam angle = 24°

LR2008d-50H35D



m	Lux	Ø cm
0.5	4800	32
1	1200	63
1.5	533	95
2	300	126

Beam angle = 35°

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

LED REFLECTORS

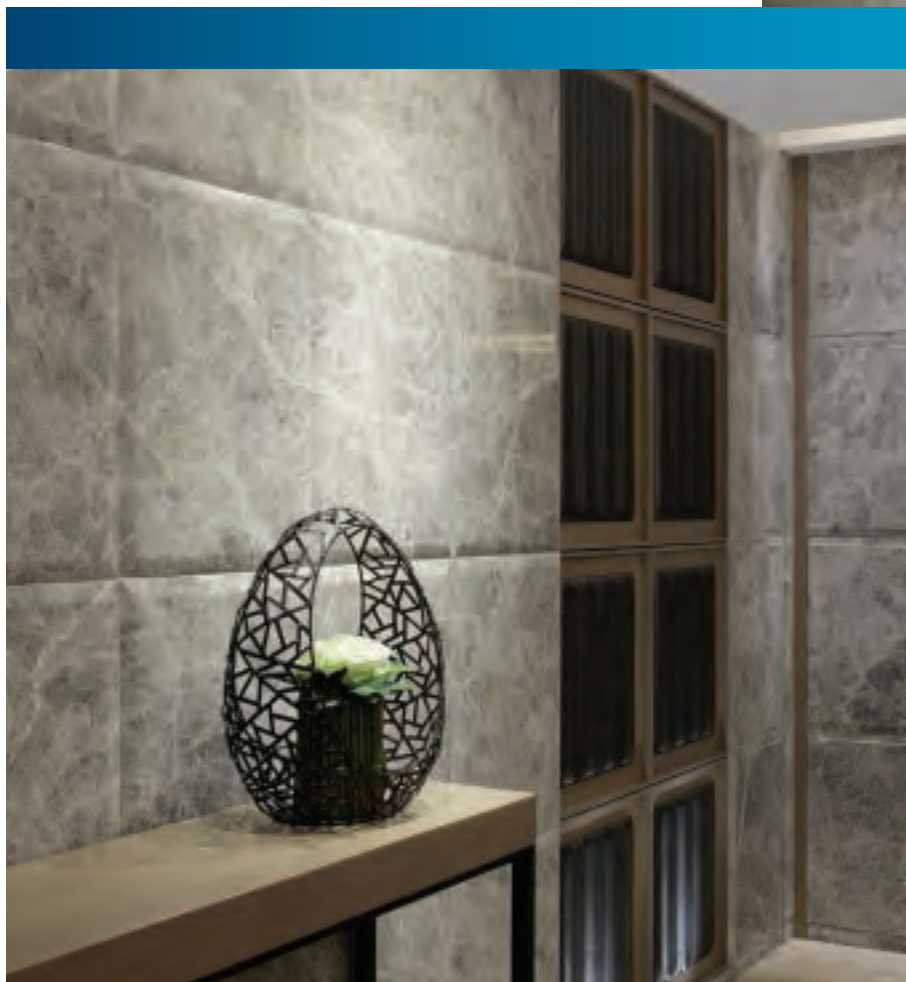
R50

An eco-friendly incandescent alternative

Ideal for general lighting fixtures or ambient lighting purpose, MEGAMAN® LED Reflector R50 shares the same external profile as the traditional incandescent R50 but is fundamentally a more user-friendly and eco-friendly option to replace the incandescent equivalent. It consumes only 3.5W of electricity, which means up to 91% power consumption could be saved. It also lasts 15 times longer than incandescent bulbs.

Product Features

- Perfect replacement for incandescent equivalents
- Superb lighting performance
- Long rated life of 15,000 hours
- High colour rendering of Ra80
- Generates less heat as compared to a incandescent R50
- Environmentally-friendly and lightweight design ideal for corridor, elevators, showroom, reception areas, restaurants etc
- Operating temperature: -30°C to +40°C



LED REFLECTORS

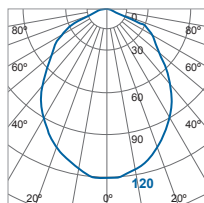
R50



220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Economy Series										
LR2603.5-SWFL-E14-2800K-230V	3.5	120	90	250	80	15000	50	87	33	A+
LR2603.5-SWFL-E14-4000K-230V	3.5	120	90	250	80	15000	50	87	33	A+
LR2605-SWFL-E14-2800K-230V*	5	190	90	400	80	15000	50	87	35	A+
LR2605-SWFL-E14-4000K-230V*	5	190	90	400	80	15000	50	87	35	A+

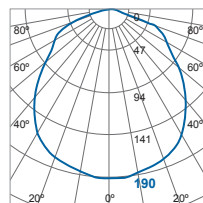
LR2603.5-SWFL



m	Lux	Ø cm
0.5	480	100
1	120	200
1.5	53	300
2	30	400

Beam angle = 90°

LR2605-SWFL



m	Lux	Ø cm
0.5	760	100
1	190	200
1.5	84	300
2	48	400

Beam angle = 90°

* Preliminary data

LED REFLECTORS

PAR20

New economical solution with a diffuser glass design to replace traditional halogen PAR20

MEGAMAN® has just introduced an economical solution with the same compact profile as a halogen PAR20. The diffuser glass design provides even light distribution to deliver soft and comfortable lighting without glare.

The MEGAMAN® LED PAR20 with patented LED design and Thermal Conductive Highway™ (TCH) technology delivers superb lighting performance with low heat output, making it a flawless replacement for the 50W halogen PAR20.

Product Features

- Eco-friendly replacement for the halogen PAR20
- LED PAR20 with patented reflector and TCH design delivers high quality and comfortable lighting
- 100% to 10% dimming version available*
- High colour rendering of up to Ra85
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour temperature consistency
- Energy savings of up to 84%
- Saves energy when the lamp is dimmed
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

LED REFLECTORS

PAR20



2

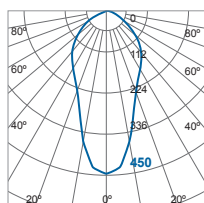


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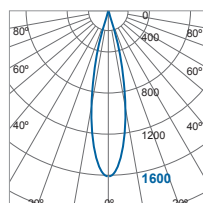
220-240V | Line Voltage

Product Code		Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series													
LR2906-WFL-E27-2800K-230V		6	450	WFL (35)	350	80	15000	63	90	60	No	A+	1
LR2906-WFL-E27-4000K-230V		6	450	WFL (35)	350	80	15000	63	90	60	No	A+	1
Professional Series													
LR0308d-50H30D-E27-2800K-230V		8	1600	30	430	82	25000	65	95	140	100-10%*	A	2
LR0308d-50H30D-E27-4000K-230V		8	1600	30	430	85	25000	65	95	140	100-10%*	A	2

LR2906-WFL



LR0308d-50H30D



* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

LED REFLECTORS

R63

Advanced LED R63 retrofit solution

Designed to be a perfect replacement for traditional incandescent R63 in size and shape, the MEGAMAN® LED Reflector R63 offers higher efficiency and light quality than its incandescent counterpart. Ideal for a wide range of applications including retail, conference room, showroom, hospitality or large household venues, LED Reflector R63 enables users to create an eco-friendly lighting solution for their business or private occasions without compromising on lighting quality. The key overriding features include:

Product Features

- Excellent lighting performance with efficacy of up to 80lm/W
- Use much less energy than incandescent, saving up to 88% of energy
- High colour rendering of Ra80
- Long lamp life of 15,000 hours, which largely reduces maintenance cost
- Generates much less heat than a incandescent R63
- Lightweight, sleek outer case and easy to install in any fixtures
- Operating temperature: -30°C to +40°C





LED REFLECTORS

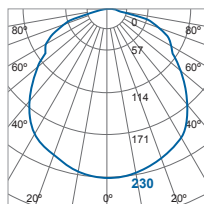
R63



220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Economy Series										
LR2407.5-SWFL-E27-2800K-230V	7.5	230	90	600	80	15000	63	103	67	A+
LR2407.5-SWFL-E27-4000K-230V	7.5	230	90	600	80	15000	63	103	67	A+

LR2407.5-SWFL



m	Lux	Ø cm
0.5	920	100
1	230	200
1.5	102	300
2	58	400

Beam angle = 90°

LED REFLECTORS

R80

LED R80 reflector delivers impressive ambient lighting for incandescent R80 replacement

MEGAMAN® LED R80 reflector is an energy-saving ambient lighting solution to replace traditional incandescent bulbs in size and shape. With low wattage and long lamp life, LED R80 reflector's efficiency and performance certainly outpace its traditional incandescent counterparts and is one of the most effective replacements. Suitable for use as ambient light to emphasise certain areas, LED R80 reflector is perfect for shops, restaurants, galleries, museums and other occasion where higher luminous effect is required.

Product Features

- Excellent lighting performance with efficacy of up to 74lm/W
- Use much less energy than incandescent, saving up to 91% of energy
- High colour rendering of Ra80
- Long lamp life of 15,000 hours, which largely reduces maintenance cost
- Generate much less heat than a incandescent R80
- Stylish and lightweight casing for easy installment in any fixtures
- Operating temperature: -30°C to +40°C







LED REFLECTORS

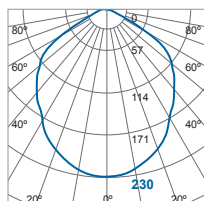
R80



220-240V | Line Voltage

Product Code		Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Economy Series											
LR4307-SWFL-E27-2800K-230V*		7	230	90	520	80	15000	78	112	90	A+
LR4307-SWFL-E27-4000K-230V*		7	230	90	520	80	15000	78	112	90	A+

LR4307-SWFL



m	Lux	Ø cm
0.5	920	100
1	230	200
1.5	102	300
2	58	400

Beam angle = 90°

* Preliminary data

LED REFLECTORS

PAR30S & PAR30

The new diffuser glass design provides an economical halogen PAR30S and PAR30 replacement solution

MEGAMAN® introduces a new economical solution that is a direct replacement for the traditional halogen PAR30S in size and shape. With a diffuser glass design, the new LED PAR30S can deliver even light distribution that creates a comfortable environment without glare.

The MEGAMAN® LED PAR30S and LED PAR30 reflectors offer an eco-solution with superb lighting performance to replace the halogen PAR30S and PAR30. These LED reflectors offer up to 85% energy savings and high lumen maintenance, greatly reducing maintenance costs and electricity bills.

Product Features

- Best replacement for the 75W halogen PAR30S and 100W halogen PAR30
- 100% to 10% linear dimming version available*
- High colour rendering of up to Ra92
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour temperature consistency
- Significant energy savings of up to 85% and low maintenance costs
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.



LED REFLECTORS

PAR30S & PAR30



2



3



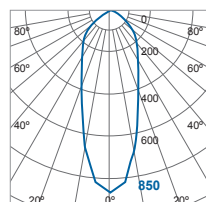
NEW

1

220-240V | Line Voltage

Product Code		Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series													
LR3010.5-WFL-E27-2800K-230V		10.5	850	WFL (35)	700	80	15000	95	88	103	No	A+	1
LR3010.5-WFL-E27-4000K-230V		10.5	850	WFL (35)	700	80	15000	95	88	103	No	A+	1
Professional Series													
LR1412d-75H30D-E27-2800K-230V		12	2300	30	600	82	30000	95	88	260	100-10%*	A	2
LR1412d-75H30D-E27-4000K-230V		12	2300	30	600	85	30000	95	88	260	100-10%*	A	2
LR0215d-100H24D-E27-2800K-230V		15	3200	24	530	85	30000	96	102	230	100-10%*	A	3
LR0215d-100H24D-E27-4000K-230V		15	3200	24	530	92	30000	96	102	230	100-10%*	A	3

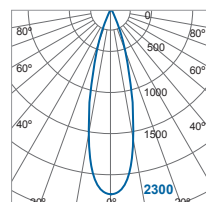
LR3010.5-WFL



m	Lux	Ø cm
0.5	3400	32
1	850	63
1.5	378	95
2	213	126

Beam angle = 35°

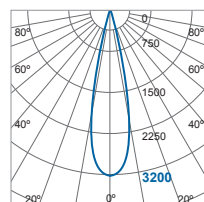
LR1412d-75H30D



m	Lux	Ø cm
0.5	9200	27
1	2300	54
1.5	1022	80
2	575	107

Beam angle = 30°

LR0215d-100H24D



m	Lux	Ø cm
0.5	12800	21
1	3200	43
1.5	1422	64
2	800	85

Beam angle = 24°

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

LED REFLECTORS

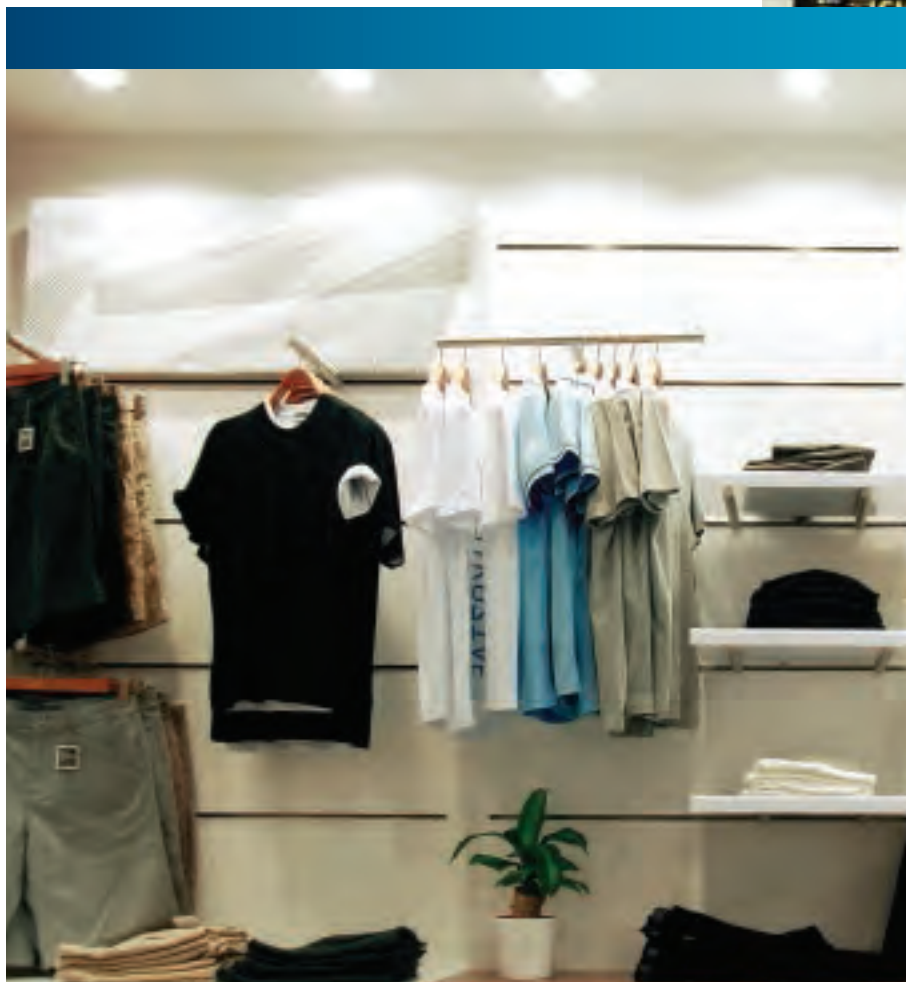
PAR30L

Superb lighting performance without the shortcomings of equivalent metal halide solutions

Employing patented Thermal Conductive Highway™ (TCH) technology, the LED PAR30L is optimised for a long lifetime of up to 40,000 hours to lower maintenance costs, and provides the highest luminance comparable to its metal halide counterparts. It delivers outstanding lighting performance of 4500cd with only 15W power consumption and is a perfect replacement for the 20W metal halide lamp.

Product Features

- Instant start capable – reaches the declared colour temperature at the time of switching on, while metal halides deliver a greenish colour when starting up
- Hot re-strike capability
- Eliminates the risk of potential exposure to UV and radioactive Kr85 in the event of lamp breakage
- Capable of linear dimming from 100% to 1%*
- Long rated life, which is three times longer than equivalent metal halides
- Rated life of up to 40,000 hours, which is three times longer than equivalent metal halides
- High colour rendering of up to Ra85
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour temperature consistency
- Operating temperature: -30°C to +40°C
- An LED constant current converter is required; please refer to page 130 for product details



* Capable of linear dimming from 100% to 1% when connected to a DC1-10V dimming driver and a DC1-10V dimmer; please refer to page 130 for details of the LED converter.



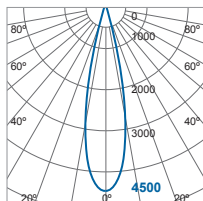
LED REFLECTORS PAR30L



380mA (DC40V) | Driven by LED Converter

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label
Professional Series											
ER0815-20M25D-E27-2800K	15	4500	25	860	80	40000	95	116	353	100-1%	A
ER0815-20M25D-E27-4000K	15	4500	25	860	85	40000	95	116	353	100-1%	A

ER0815-20M25D



m	Lux	Ø cm
0.5	18000	22
1	4500	44
1.5	2000	67
2	1125	89

Beam angle = 25°



Suggested LED Converter:
LD0115x1v-C380

Capable of linear dimming from 100% to 1% when connected to a DC1-10V dimming driver and a DC1-10V dimmer; please refer to page 130 for details of the LED converter.

LED REFLECTORS

PAR38

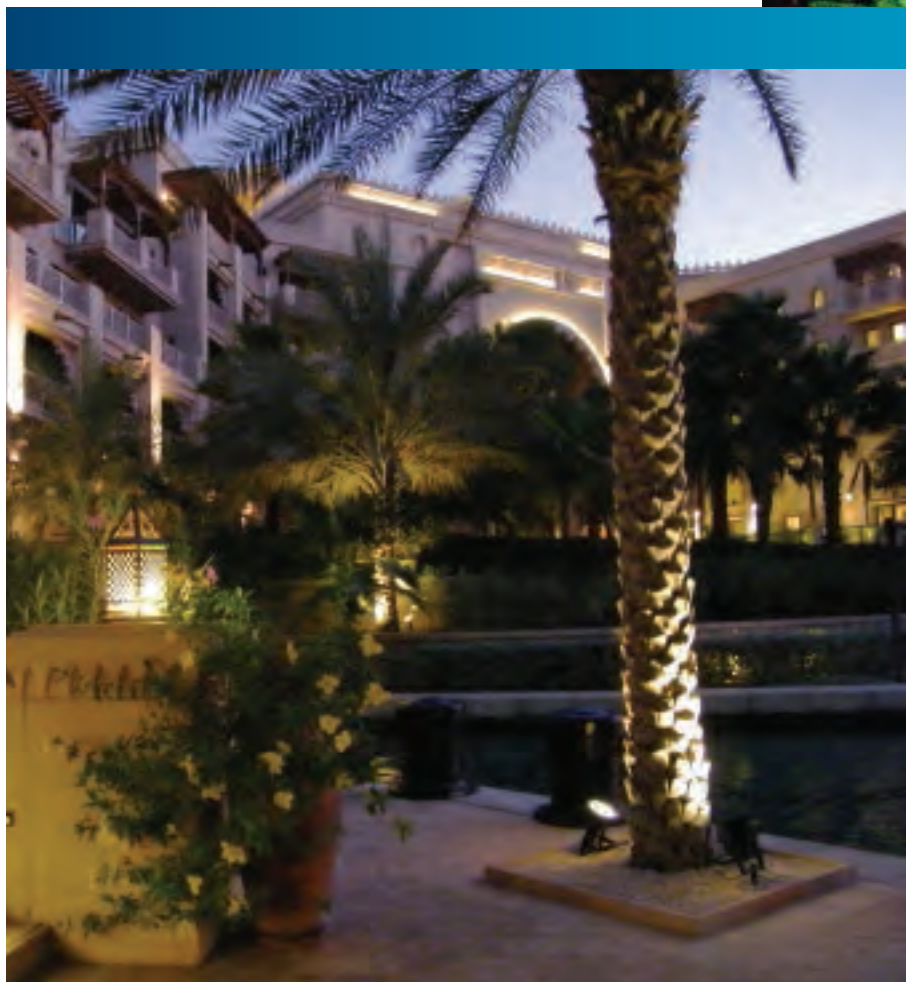
Delivers powerful light output without the shortcomings of equivalent halogen or metal halide solutions

MEGAMAN® has newly introduced an LED PAR38 with a diffuser glass design; it is an economical solution with a water resistant outdoor feature that maintains the IP rating of the light fitting (up to a maximum of IP55).

The MEGAMAN® LED PAR38 with reflector design employs Thermal Conductive Highway™ (TCH) technology to deliver powerful luminous intensity, perfectly replacing halogen and metal halides delivering dramatic accent lighting.

Product Features

- Water resistant outdoor version available
- Powerful luminous intensity of up to 6800cd; the 20W version provides a true replacement for the 25W metal halide PAR38
- 100% to 10% linear dimming version in 20W available*
- Instant start capable – reaches the declared colour temperature at the time of switching on, while metal halides deliver a greenish colour when starting up
- High colour rendering of up to Ra85
- High lumen maintenance, 70% (L70) at the rated life of up to 50,000 hours
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.



LED REFLECTORS PAR38



2



Linear Dimming
100% Dimmable
Dimmable on Dimmer Switches



IP55

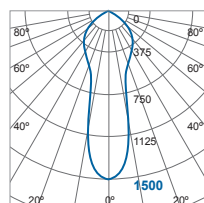
NEW

1

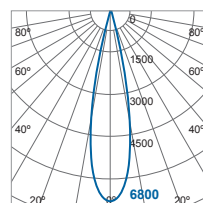
220-240V | Line Voltage

Product Code		Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series													
LR3215.5-WFL-E27-2800K-230V	IP55 NEW	15.5	1500	WFL (35)	950	80	15000	121	132	204	No	A	1
LR3215.5-WFL-E27-4000K-230V	IP55 NEW	15.5	1500	WFL (35)	950	80	15000	121	132	204	No	A	1
Professional Series													
LR0920d-25M25D-E27-2800K-230V		20	6800	25	1200	82	30000	121	133	490	100-10%*	A	2
LR0920d-25M25D-E27-4000K-230V		20	6800	25	1200	85	30000	121	133	490	100-10%*	A	2
LR0920d-25M45D-E27-2800K-230V		20	2200	45	1200	82	30000	121	133	490	100-10%*	A	2
LR0920d-25M45D-E27-2800K-230V		20	2200	45	1200	85	30000	121	133	490	100-10%*	A	2

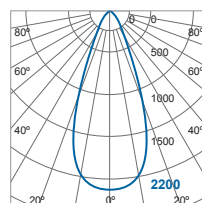
LR3215.5-WFL



LR0920d-25M25D



LR0920d-25M45D



* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

IP55 means the product is a water-resistant outdoor version designed to maintain the IP rating of the light fitting used (up to a maximum of IP55).

LED REFLECTORS

AR111

New 100W retrofit LED AR111 with high luminosity consumes 18W only

With high lumen intensity up to 20000cd and an excellent output at 1500lm, MEGAMAN®'s new LED Reflector AR111, which consumes only 18W power, is designed to perfectly replace the 100W halogen equivalent. Up to 82% power is saved and less heat is emitted, thanks to MEGAMAN®'s patented Thermal Conductive Highway™ technology which reduces energy loss through heat.

With the same high quality light intensity and colour rendering of traditional AR111 spotlights (colour rendering of up to Ra85), but with no UV and negligible IR light radiation or residual glare, the LED AR111 range is ideal for use in any retail outlet, reception area, hotel, restaurant, gallery or residential application.

In addition, selected products in the MEGAMAN® LED AR111 range can be used with the majority of AC/DC12V halogen transformers*, making the range a viable option for most retrofit applications.

Product Features

- Perfect low energy replacement for the 50W, 75W and 100W halogen AR111
- Glass cover design makes maintenance easy
- Different beam angle (8°, 24° and 45°) options available to cater for different applications
- Capable of 100% to 10% linear dimming#
- Maintains high light output for a long time; rated lumen maintenance life of 70 (L70) at 50,000 hours
- High colour rendering of up to Ra85
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers and recommended halogen transformers.

LED REFLECTORS

AR111



In line Voltage

Easy installation with integrated driver



50W Replacement

12W

LR1712d-50H08D
LR1612d-50H24D
LR1812d-50H45D

75W Replacement

15W

LR1715d-75H08D
LR1615d-75H24D
LR1815d-75H45D

100W Replacement



Driver by Halogen transformer

Retrofit version; works with existing halogen transformer



11W

ER2111d-50H08D
ER2711d-50H24D
ER2911d-50H45D

15W

ER2115d-75H08D
ER2015d-75H24D
ER2215d-75H45D



Driven by LED Converter

Smooth linear dimming of 100% to 1%



10W

ER0210-50H08D
ER0110-50H24D
ER0310-50H45D

18W

ER2118-100H08D
ER2018-100H24D

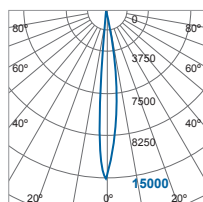
AR111



AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
ER2111d-50H08D-G53-2800K-12V	11	15000	8	550	80	35000	111	62	266	100-10%	A	1
ER2111d-50H08D-G53-4000K-12V	11	15000	8	550	80	35000	111	62	266	100-10%	A	1
ER2711d-50H24D-G53-2800K-12V*	11	3600	24	600	80	35000	111	58	230	100-10%	A	2
ER2711d-50H24D-G53-4000K-12V*	11	3600	24	600	80	35000	111	58	230	100-10%	A	2
ER2911d-50H45D-G53-2800K-12V*	11	1400	45	630	80	35000	111	58	230	100-10%	A	2
ER2911d-50H45D-G53-4000K-12V*	11	1400	45	630	80	35000	111	58	230	100-10%	A	2

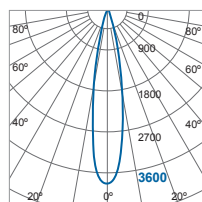
ER2111d-50H08D



m	Lux	Ø cm
0.5	60000	7
1	15000	14
1.5	6667	21
2	3750	28

Beam angle = 8°

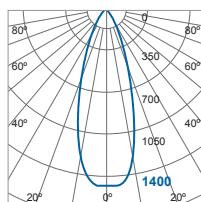
ER2711d-50H24D



m	Lux	Ø cm
0.5	14400	21
1	3600	43
1.5	1600	64
2	900	85

Beam angle = 24°

ER2911d-50H45D



m	Lux	Ø cm
0.5	5600	41
1	1400	83
1.5	622	124
2	350	166

Beam angle = 45°

* Preliminary data

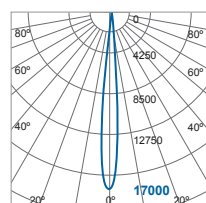
Compatible halogen transformer list is available at www.megaman.cc/user-guide.Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.



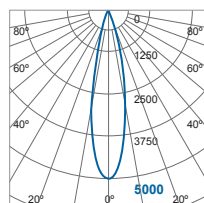
AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
ER2115d-75H08D-G53-2800K-12V	15	17000	8	850	80	25000	111	62	275	100-10%	A	3
ER2115d-75H08D-G53-4000K-12V	15	17000	8	850	80	25000	111	62	275	100-10%	A	3
ER2015d-75H24D-G53-2800K-12V	15	5000	24	850	80	25000	111	62	275	100-10%	A	4
ER2015d-75H24D-G53-4000K-12V	15	5000	24	850	80	25000	111	62	275	100-10%	A	4
ER2215d-75H45D-G53-2800K-12V	15	2000	45	850	80	25000	111	62	275	100-10%	A	4
ER2215d-75H45D-G53-4000K-12V	15	2000	45	850	80	25000	111	62	275	100-10%	A	4

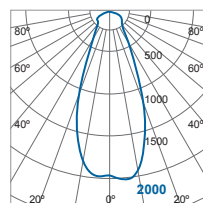
ER2115d-75H08D



ER2015d-75H24D



ER2215d-75H45D



Compatible halogen transformer list is available at www.megaman.cc/user-guide.

Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

LED REFLECTORS

AR111



1



100%
Dimmable
Dimmable on Dimmer Switches

2

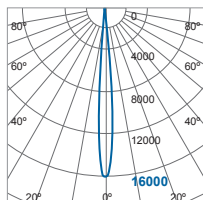


100%
Dimmable
Dimmable on Dimmer Switches

220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
LR1712d-50H08D-GU10-2800K-230V	12	16000	8	550	80	30000	111	89	276	100-10%	A	1
LR1712d-50H08D-GU10-4000K-230V	12	16000	8	550	80	30000	111	89	276	100-10%	A	1
LR1612d-50H24D-GU10-2800K-230V	12	3600	24	600	80	30000	111	89	276	100-10%	A	2
LR1612d-50H24D-GU10-4000K-230V	12	3600	24	600	80	30000	111	89	276	100-10%	A	2
LR1812d-50H45D-GU10-2800K-230V	12	1400	45	630	80	30000	111	89	276	100-10%	A	2
LR1812d-50H45D-GU10-4000K-230V	12	1400	45	630	80	30000	111	89	276	100-10%	A	2

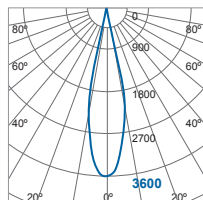
LR1712d-50H08D



m	Lux	Ø cm
0.5	64000	7
1	16000	14
1.5	7111	21
2	4000	28

Beam angle = 8°

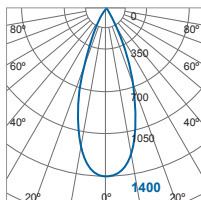
LR1612d-50H24D



m	Lux	Ø cm
0.5	14400	21
1	3600	43
1.5	1600	64
2	900	85

Beam angle = 24°

LR1812d-50H45D



m	Lux	Ø cm
0.5	5600	41
1	1400	83
1.5	622	124
2	350	166

Beam angle = 45°

Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.



3



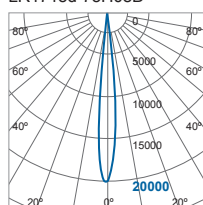
3



220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
LR1715d-75H08D-GU10-2800K-230V	15	20000	8	950	82	40000	111	89	276	100-10%	A	3
LR1715d-75H08D-GU10-4000K-230V	15	20000	8	950	85	40000	111	89	276	100-10%	A	3
LR1615d-75H24D-GU10-2800K-230V	15	5000	24	950	82	40000	111	89	276	100-10%	A	4
LR1615d-75H24D-GU10-4000K-230V	15	5000	24	950	85	40000	111	89	276	100-10%	A	4
LR1815d-75H45D-GU10-2800K-230V	15	2000	45	950	82	40000	111	89	276	100-10%	A	4
LR1815d-75H45D-GU10-4000K-230V	15	2000	45	950	85	40000	111	89	276	100-10%	A	4

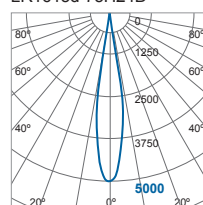
LR1715d-75H08D



m	Lux	Ø cm
0.5	80000	7
1	20000	14
1.5	8889	21
2	5000	28

Beam angle = 8°

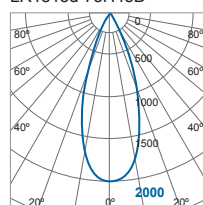
LR1615d-75H24D



m	Lux	Ø cm
0.5	20000	21
1	5000	43
1.5	222	64
2	1250	85

Beam angle = 24°

LR1815d-75H45D



m	Lux	Ø cm
0.5	8000	41
1	2000	83
1.5	889	124
2	500	166

Beam angle = 45°

Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.co/user-guide for further details.

AR111



1



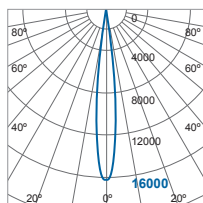
2



500mA (DC20V) | Driven by LED Converter

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series												
ER0210-50H08D-G53-2800K	10	16000	8	550	82	40000	111	58	218	100-1%	A	1
ER0210-50H08D-G53-4000K	10	16000	8	550	85	40000	111	58	218	100-1%	A	1
ER0110-50H24D-G53-2800K	10	3600	24	600	82	40000	111	58	218	100-1%	A	2
ER0110-50H24D-G53-4000K	10	3600	24	600	85	40000	111	58	218	100-1%	A	2
ER0310-50H45D-G53-2800K	10	1400	45	630	82	40000	111	58	218	100-1%	A	2
ER0310-50H45D-G53-4000K	10	1400	45	630	85	40000	111	58	218	100-1%	A	2

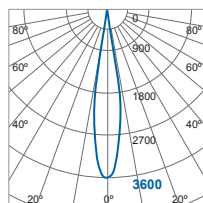
ER0210-50H08D



m	Lux	Ø cm
0.5	64000	7
1	16000	14
1.5	7111	21
2	4000	28

Beam angle = 8°

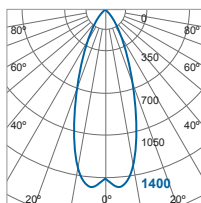
ER0110-50H24D



m	Lux	Ø cm
0.5	14400	21
1	3600	43
1.5	1600	64
2	900	85

Beam angle = 24°

ER0310-50H45D



m	Lux	Ø cm
0.5	5600	41
1	1400	83
1.5	622	124
2	350	166

Beam angle = 45°

Suggested LED Converter:
LD0310x1v-C500

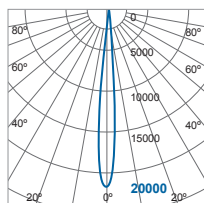
Capable of linear dimming from 100% to 1% when connected to a DC1-10V dimming driver and a DC1-10V dimmer; please refer to page 130 for details of the LED converter.



500mA (DC20V) | Driven by LED Converter

Product Code		Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series													
ER2118-100H08D-G53-2800K*		18	20000	8	1500	80	25000	111	62	192	100-1%	A	3
ER2118-100H08D-G53-4000K*		18	20000	8	1500	80	25000	111	62	192	100-1%	A	3
ER2018-100H24D-G53-2800K*		18	8000	24	1500	80	25000	111	62	221	100-1%	A	4
ER2018-100H24D-G53-4000K*		18	8000	24	1500	80	25000	111	62	221	100-1%	A	4

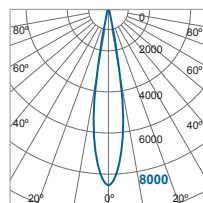
ER2118-100H08D



m	Lux	Ø cm
0.5	80000	7
1	20000	14
1.5	8889	21
2	5000	28

Beam angle = 8°

ER2018-100H24D



m	Lux	Ø cm
0.5	32000	21
1	8000	43
1.5	3556	64
2	2000	85

Beam angle = 24°

* Preliminary data
LED constant current driver with output current of 500 mA is required.

LED REFLECTORS

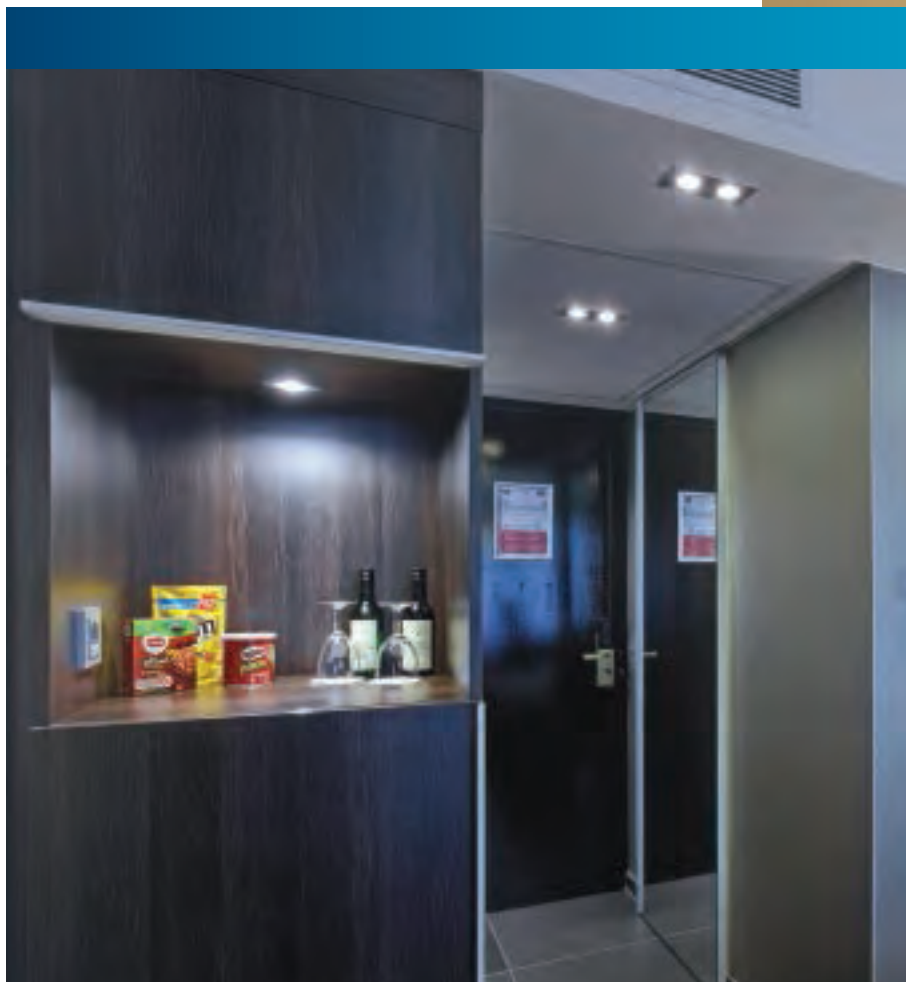
GX53

Integral LED cabinet lighting with an incredible slim profile

The MEGAMAN® LED GX53 series has an ultra slim profile, which provides an innovative solution for slim surface-mounted luminaires and recessed fittings that have long been haunted by blazing-heat halogens, causing overheating, discoloration and deformation to furniture and display items.

Product Features

- Integral LED cabinet lighting with GX53 lamp base
- Ultra slim profile: the lamp height is only 24mm, up to 32mm
- High luminous efficacy of up to 74lm/W
- 100% to 10% linear dimming version available*
- High colour temperature consistency
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour rendering of up to Ra85
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

LED REFLECTORS

GX53



220-240V | Line Voltage

Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Height (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series										
LR2203.5-GX53-2800K-230V	3.5	220	80	15000	75	24	56	No	A+	1
LR2203.5-GX53-4000K-230V	3.5	220	80	15000	75	24	56	No	A+	1
LR2205-GX53-2800K-230V	5	300	80	15000	75	24	59	No	A+	1
LR2205-GX53-4000K-230V	5	300	80	15000	75	24	59	No	A+	1
LR3307-GX53-2800K-230V	7	520	80	15000	75	32	91	No	A+	2
LR3307-GX53-4000K-230V	7	520	80	15000	75	32	91	No	A+	2
Smart Series										
LR2205d-GX53-2800K-230V	5	300	80	25000	75	24	57	100-10%*	A+	1
LR2205d-GX53-4000K-230V	5	300	80	25000	75	24	57	100-10%*	A+	1
LR3307d-GX53-2800K-230V	7	480	80	25000	75	32	99	100-10%*	A+	2
LR3307d-GX53-4000K-230V	7	480	80	25000	75	32	99	100-10%*	A+	2

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

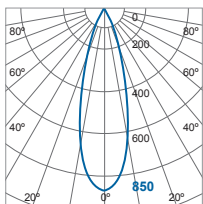
GX53



220-240V | Line Voltage

Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Height (mm)	Weight (g)	Energy Label
Professional Series										
LR1305-30D-GX53-2800K-230V	5	850	30	350	82	30000	75	25	82	A+
LR1305-30D-GX53-4000K-230V	5	850	30	350	85	30000	75	25	82	A+
LR1305-60D-GX53-2800K-230V	5	350	60	350	82	30000	75	25	82	A+
LR1305-60D-GX53-4000K-230V	5	350	60	350	85	30000	75	25	82	A+

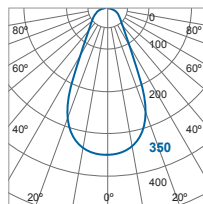
LR1305-30D



m	Lux	Ø cm
0.5	3400	58
1	850	115
1.5	378	173
2	213	231

Beam angle = 30°

LR1305-60D



m	Lux	Ø cm
0.5	1400	58
1	350	115
1.5	156	173
2	88	231

Beam angle = 60°





LED NON-DIRECTIONAL LAMPS

- INCANDA-LED
- CANDLE
- CLASSIC
- GLOBE
- G4
- G9
- T-LAMP
- R7s
- CLUSTERLITE®

LED NON-DIRECTIONAL LAMPS

INCANDA-LED

Resembles the point source and sparkling light effect of incandescent lamps

The all-new MEGAMAN® Incanda-LED series uses a unique lamp design to deliver a sparkling, 'point source' light effect that imitates that of an incandescent lamp. Coupled with the sleek and elegant Candle, Classic and Globe shape, it perfectly brings out the aesthetic appeal of chandeliers and crystal light fittings to create charming, sparkling light for a stunning space.

Product Features

- Best fit in a range of interior lighting fixtures, such as pendant, wall sconces, chandeliers and crystal fixtures
- High luminous efficacy of up to 100lm/W (Grade A++ EU energy label)
- Maintains high light output for a long time; rated lumen maintenance life of 70 (L70) at 50,000 hours
- High colour rendering of Ra80
- 100% to 10% linear dimming version available*
- Generates less heat than incandescent bulbs
- Extremely light in weight
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

LED NON-DIRECTIONAL LAMPS

INCANDA-LED



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series												
25	LC0703CS-E14-2800K-230V	NEW	3	250	80	25000	35	117	33	No	A++	1
25	LC0703CS-E14-4000K-230V	NEW	3	250	80	25000	35	117	33	No	A++	1
25	LC0803.5dCS-E14-2800K-230V	NEW	3.5	250	80	25000	35	100	31	100-10%#	A+	2
25	LC0803.5dCS-E14-4000K-230V	NEW	3.5	250	80	25000	35	100	31	100-10%#	A+	2
35	LC0704CS-E14-2800K-230V	NEW	4	400	80	25000	35	117	37	No	A++	3
35	LC0704CS-E14-4000K-230V	NEW	4	400	80	25000	35	117	37	No	A++	3
35	LC0805dCS-E14-2800K-230V	NEW	5	400	80	25000	35	100	57	100-10%#	A+	4
35	LC0805dCS-E14-4000K-230V	NEW	5	400	80	25000	35	100	57	100-10%#	A+	4
40	LC0906dCS-E14-2800K-230V	NEW	6	470	80	25000	40	106	78	100-10%#	A+	5
40	LC0906dCS-E14-4000K-230V	NEW	6	470	80	25000	40	106	78	100-10%#	A+	5

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

INCAN-
LED

220-240V | Line Voltage



Lamp Type	Equivalent Incandescent Lamp Power (W)	Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series													
P45	25	LG3903CS-E14-2800K-230V	NEW	3	250	80	25000	45	82	28	No	A++	1
P45	25	LG3903CS-E14-4000K-230V	NEW	3	250	80	25000	45	82	28	No	A++	1
P45	25	LG4003.5dCS-E14-2800K-230V	NEW	3.5	250	80	25000	45	84	32	100-10%#	A+	2
P45	25	LG4003.5dCS-E14-4000K-230V	NEW	3.5	250	80	25000	45	84	32	100-10%#	A+	2
A55	40	LG4105.5CS-E27-2800K-230V	NEW	5.5	470	80	25000	55	104	53	No	A+	3
A55	40	LG4105.5CS-E27-4000K-230V	NEW	5.5	470	80	25000	55	104	53	No	A+	3
A55	40	LG4106dCS-E27-2800K-230V	NEW	6	470	80	25000	55	104	75	100-10%#	A+	3
A55	40	LG4106dCS-E27-4000K-230V	NEW	6	470	80	25000	55	104	75	100-10%#	A+	3
Globe	60	LG4209.5CS-E27-4000K-230V*	NEW	9.5	810	80	25000	98	148	153	No	A+	4
Globe	60	LG4209.5CS-E27-2400K-230V*	NEW	9.5	810	80	25000	98	148	153	No	A+	4

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data



LED NON-DIRECTIONAL LAMPS

CANDLE

With a delightful and sophisticated look, the perfect replacement for incandescent candles

Designed to replace incandescent candles, the MEGAMAN® LED CANDLE has a glamorous and majestic outlook with incredible lighting performance that greatly reduces electricity and maintenance costs. The MEGAMAN® LED Candle series is available in different glass-finishing options that cater to an array of applications, such as chandeliers, candle stands, decorative lighting and general lighting.

Product Features

- Perfect alternative to the incandescent candle
- Resembles point-source and incandescent-like sparkling light effect
- Best fit in chandeliers and crystal light fittings to create glittering effects with a beautiful spectrum
- Even light distribution of up to 330° illumination to create a comfortable environment
- 100% to 10% linear dimming version available*
- High colour rendering of Ra80
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Various glass-finishing options are available to cater for different applications
- Generates less heat than incandescent candles
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

LED NON-DIRECTIONAL LAMPS

CANDLE



1



NEW

2



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series											
15	LC0402 -E14-2800K-230V	2	136	80	15000	35	100	28	No	A+	1
15	LC0402 -E14-4000K-230V	2	136	80	15000	35	100	28	No	A+	1
25	LC0403.5-E14-2800K-230V	3.5	250	80	15000	35	100	34	No	A+	1
25	LC0403.5-E14-4000K-230V	3.5	250	80	15000	35	100	34	No	A+	1
40	LC1105.5-E14-2800K-230V*	NEW 5.5	470	80	15000	40	106	45	No	A+	2
40	LC1105.5-E14-4000K-230V*	NEW 5.5	470	80	15000	40	106	45	No	A+	2
Smart Series											
25	LC0403.5d-E14-2800K-230V	3.5	250	80	25000	35	100	35	100-10%#	A+	1
25	LC0403.5d-E14-4000K-230V	3.5	250	80	25000	35	100	35	100-10%#	A+	1
40	LC1106d-E14-2800K-230V*	NEW 6	470	80	25000	40	106	46	100-10%#	A+	2
40	LC1106d-E14-4000K-230V*	NEW 6	470	80	25000	40	106	46	100-10%#	A+	2

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data

LED NON-DIRECTIONAL LAMPS

CLASSIC

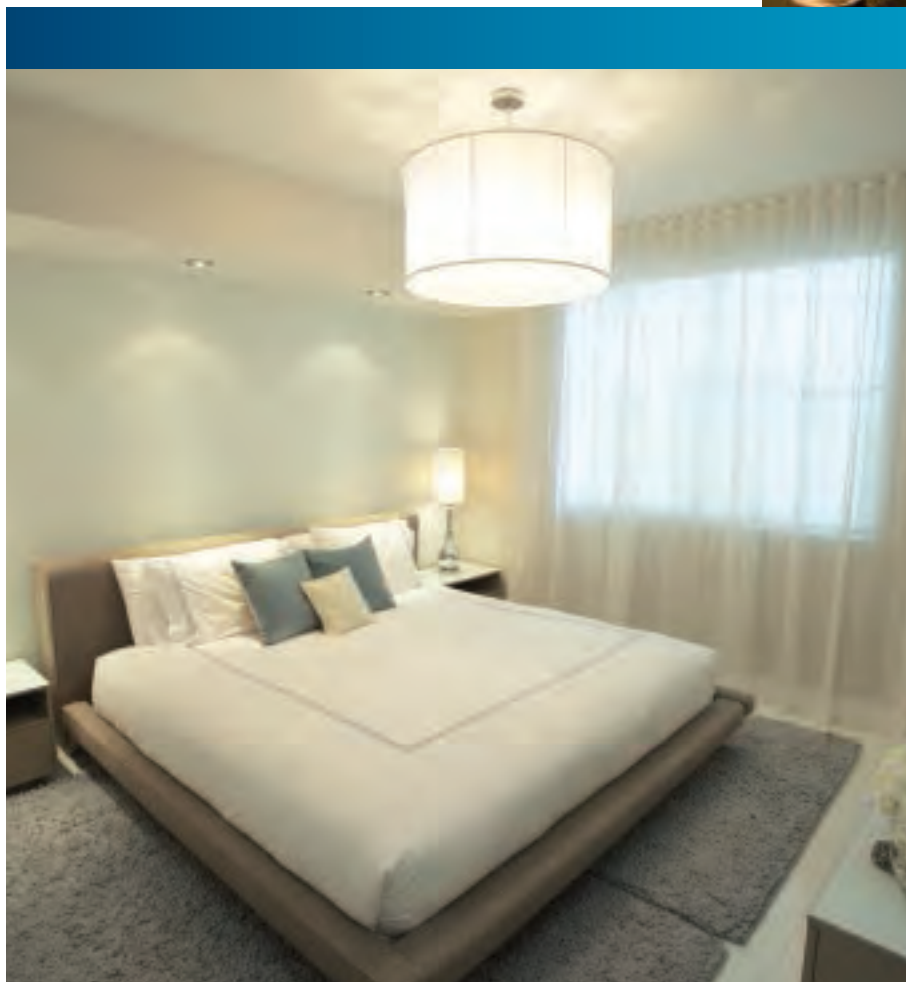
New LED Classic series with 360° illumination, capable of emitting light in all directions

Thanks to its cutting-edge technology, MEGAMAN® is proud to unveil a new LED Classic that delivers 360° illumination. The bottom part of the lamp is lit up, achieving an all-directional and rounded lighting distribution. The MEGAMAN® LED Classic is able to emit light at an unobstructed and panoramic angle, creating a well lit and cosy space. It comes with a shatterproof finishing, protecting the user from broken glass and other components.

MEGAMAN® LED Classic minimises heat sink material for a sleek and stylish classic shape in a compact housing. Most LED Classic models provide a uniform light distribution of 330° with high-quality lighting performance and energy efficiency, making the series ideal for incandescent replacement.

Product Features

- Compatible with existing luminaires using incandescent bulbs
- Even light distribution of up to 360° illumination to create a comfortable environment
- Capable of linear dimming from 100% to 10%#
- Long rated life of up to 25,000 hours, which is 25 times longer than incandescent bulbs
- High colour rendering of Ra80
- High lumen maintenance, 70% (L70) at the rated life of 50,000 hours
- Various glass-finishing options are available to cater for different applications
- Generates less heat than incandescent bulbs
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.



LED NON-DIRECTIONAL LAMPS CLASSIC

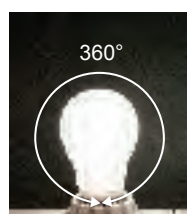


1



220-240V | Line Voltage

Lamp Type	Equivalent Incandescent Lamp Power (W)	Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Smart Series													
P45	25W	LG4303.5-E14-2800K-230V*	NEW	3.5	250	80	25000	45	84	30	No	A+	1
P45	25W	LG4303.5-E14-4000K-230V*	NEW	3.5	250	80	25000	45	84	30	No	A+	1
A55	40W	LG4405.5-E27-2800K-230V*	NEW	5.5	470	80	25000	55	100	59	No	A+	2
A55	40W	LG4405.5-E27-4000K-230V*	NEW	5.5	470	80	25000	55	100	59	No	A+	2
A60	60W	LG4508-E27-2800K-230V*	NEW	8	810	80	25000	60	107	85	No	A+	3
A60	60W	LG4508-E27-4000K-230V*	NEW	8	810	80	25000	60	107	85	No	A+	3

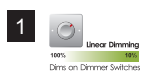


- 360° illumination**
 Capable of emitting light in all directions
- Shatterproof Design**
 The LED Classic with 360° illumination comes with a shatterproof finishing, protecting the user from broken glass and other components.

* Preliminary data

LED NON-DIRECTIONAL LAMPS

CLASSIC



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series											
15	LG2602-E14-2800K-230V	2	136	80	15000	45	84	31	No	A+	1
15	LG2602-E14-4000K-230V	2	136	80	15000	45	84	31	No	A+	1
25	LG2603.5-E14-2800K-230V	3.5	250	80	15000	45	84	32	No	A+	1
25	LG2603.5-E14-4000K-230V	3.5	250	80	15000	45	84	32	No	A+	1
35	IP54 LG4605-E27-2800K-230V	5	400	80	15000	46	93	39	No	A+	2
35	IP54 LG4605-E27-4000K-230V	5	400	80	15000	46	93	39	No	A+	2
40	LG5205.5-E14-2800K-230V*	5.5	470	80	15000	45	85	39	No	A+	3
40	LG5205.5-E14-4000K-230V*	5.5	470	80	15000	45	85	39	No	A+	3
Smart Series											
25	LG2603.5d-E14-2800K-230V	3.5	250	80	25000	45	84	36	100-10%#	A+	1
25	LG2603.5d-E14-4000K-230V	3.5	250	80	25000	45	84	36	100-10%#	A+	1
40	LG5206d-E14-2800K-230V*	6	470	80	25000	45	85	39	100-10%#	A+	3
40	LG5206d-E14-4000K-230V*	6	470	80	25000	45	85	39	100-10%#	A+	3

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data

IP54 means the product is a water-resistant outdoor version designed to maintain the IP rating of the light fitting used (up to a maximum of IP55). E27 version available

CLASSIC



4



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series											
25	LG2203.5-E27-2800K-230V	3.5	250	80	15000	55	104	53	No	A+	4
25	LG2203.5-E27-4000K-230V	3.5	250	80	15000	55	104	53	No	A+	4
40	LG2205.5-E27-2800K-230V	5.5	470	80	15000	55	104	59	No	A+	4
40	LG2205.5-E27-4000K-230V	5.5	470	80	15000	55	104	59	No	A+	4
Smart Series											
25	LG2204d-E27-2800K-230V	4	250	80	25000	55	104	51	100-10%*	A+	4
25	LG2204d-E27-4000K-230V	4	250	80	25000	55	104	51	100-10%*	A+	4
40	LG2207d-E27-2800K-230V	7	470	80	25000	55	104	71	100-10%*	A+	4
40	LG2207d-E27-4000K-230V	7	470	80	25000	55	104	71	100-10%*	A+	4

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

LED NON-DIRECTIONAL LAMPS

CLASSIC



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series											
47	LG2107.5-E27-2800K-230V	7.5	600	80	15000	60	115	67	No	A+	1
47	LG2107.5-E27-4000K-230V	7.5	600	80	15000	60	115	67	No	A+	1
60	LG2509.5-E27-2800K-230V	9.5	810	80	15000	60	115	97	No	A+	2
60	LG2509.5-E27-4000K-230V	9.5	810	80	15000	60	115	97	No	A+	2
75	LG2311-E27-2800K-230V	11	1055	80	15000	65	125	112	No	A+	3
75	LG2311-E27-4000K-230V	11	1055	80	15000	65	125	112	No	A+	3
Smart Series											
47	LG2508.5d-E27-2800K-230V	8.5	600	80	25000	60	115	98	100-10%*	A+	2
47	LG2508.5d-E27-4000K-230V	8.5	600	80	25000	60	115	98	100-10%*	A+	2
60	LG2310.5d-E27-2800K-230V	10.5	810	80	25000	65	125	122	100-10%*	A+	3
60	LG2310.5d-E27-4000K-230V	10.5	810	80	25000	65	125	122	100-10%*	A+	3
75	LG3713d-E27-2800K-230V	13	1055	80	25000	65	126	117	100-10%*	A+	4
75	LG3713d-E27-4000K-230V	13	1055	80	25000	65	126	117	100-10%*	A+	4
100	LG3816.5-E27-2800K-230V	16.5	1521	80	25000	71	139	255	No	A+	5
100	LG3816.5-E27-4000K-230V	16.5	1521	80	25000	71	139	255	No	A+	5

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.



LED NON-DIRECTIONAL LAMPS

GLOBE

All-round illumination with a simple and beautiful look

Empowered with a patented heat sink design, the MEGAMAN® LED GLOBE minimises heat sink material for a simple and beautiful globe shape with a compact housing. The MEGAMAN® LED GLOBE delivers an even light distribution and globe feel just like an incandescent globe, and is best for general lighting applications, such as table, wall and floor lamps.

Product Features

- Ideal replacement for incandescent bulbs
- Even light distribution: 330° illumination
- Superb luminous efficacy of up to 96lm/W
- Compatible with existing luminaires using incandescent bulbs
- Capable of linear dimming from 100% to 10%[#]
- High colour rendering of Ra80
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at 50,000 hours
- Generates less heat than incandescent bulbs
- Operating temperature: -30°C to +40°C



[#] Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

LED NON-DIRECTIONAL LAMPS

GLOBE



NEW

Linear Dimming
100%
Dim on Dimmer Switches



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label
Economy Series											
60	LG3110-E27-2800K-230V	NEW	10	810	80	15000	98	148	119	No	A+
60	LG3110-E27-4000K-230V	NEW	10	810	80	15000	98	148	119	No	A+
75	LG3111-E27-2800K-230V	NEW	11	1055	80	15000	98	148	153	No	A+
75	LG3111-E27-4000K-230V	NEW	11	1055	80	15000	98	148	153	No	A+
Smart Series											
60	LG3110.5d-E27-2800K-230V	NEW	10.5	810	80	25000	98	148	190	100-10%*	A+
60	LG3110.5d-E27-4000K-230V	NEW	10.5	810	80	25000	98	148	190	100-10%*	A+
75	LG3113d-E27-2800K-230V	NEW	13	1055	80	25000	98	148	190	100-10%*	A+
75	LG3113d-E27-4000K-230V	NEW	13	1055	80	25000	98	148	190	100-10%*	A+

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.
Preliminary data

LED NON-DIRECTIONAL LAMPS

GLOBE



220-240V | Line Voltage

Equivalent Incandescent Lamp Power (W)	Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label
Economy Series											
60	LG5010-E27-2800K-230V	NEW	10	810	80	15000	120	174	165	No	A+
60	LG5010-E27-4000K-230V	NEW	10	810	80	15000	120	174	165	No	A+
75	LG5011-E27-2800K-230V	NEW	11	1055	80	15000	120	174	165	No	A+
75	LG5011-E27-4000K-230V	NEW	11	1055	80	15000	120	174	165	No	A+
Smart Series											
60	LG5010.5d-E27-2800K-230V	NEW	10.5	810	80	25000	120	174	205	100-10%#	A+
60	LG5010.5d-E27-4000K-230V	NEW	10.5	810	80	25000	120	174	205	100-10%#	A+
75	LG5013d-E27-2800K-230V	NEW	13	1055	80	25000	120	174	205	100-10%#	A+
75	LG5013d-E27-4000K-230V	NEW	13	1055	80	25000	120	174	205	100-10%#	A+

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.
Preliminary data



LED NON-DIRECTIONAL LAMPS

G4

Powerful light output, perfect alternative to the halogen G4

The delicate profile of the MEGAMAN® LED G4 is designed to fit into luminaires of meticulous and compact design. It provides a halogen-like sparkling light, demonstrating the masterly and detailed design of the lamp.

The MEGAMAN® G4 is best used in chandeliers and crystal light luminaires to exemplify the full profile and characteristics of the luminaires, creating the desired atmospheres in a blink. It is the perfect energy-saving alternative to the halogen G4, while generating less heat than its counterparts do.

Product Features

- Ideal energy-saving alternative to the halogen G4
- Provides a halogen-like sparkling effect
- High colour rendering index of Ra80
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at 50,000 hours
- Generates less heat than the halogen G4
- Works with most common AC/DC 12V halogen transformers*
- Alternative to halogen transformer: applicable LED constant voltage converter LD0106-K12 and LED electronic transformer LD0216-K12; please refer to page 131 to 134 for product details
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of recommended halogen transformers.



LED NON-DIRECTIONAL LAMPS

G4



AC/DC12V | Driven by Halogen Transformer

Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Smart Series								
EU0102-G4-3000K-12V	2	120	80	25000	19	45	11	A+
EU0102-G4-4000K-12V	2	120	80	25000	19	45	11	A+

LED NON-DIRECTIONAL LAMPS

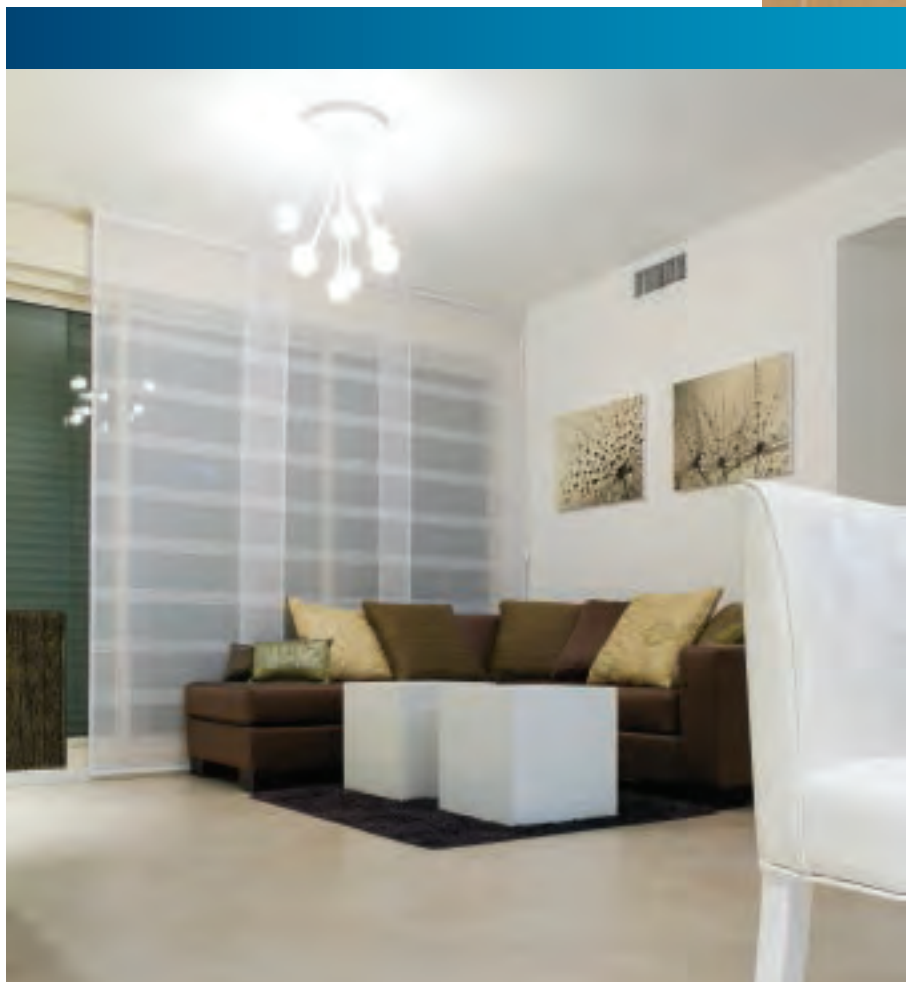
G9

Eco-lighting solution for halogen G9 replacement

Thanks to the exquisite profile of the MEGAMAN® LED G9, it provides an energy-saving solution to fit into luminaires of meticulous and compact design. Overheating and frequent re-lamping due to lamps burning out are no longer disturbances.

Product Features

- Ideal substitute for the halogen G9
- 100% to 20% linear dimming version available*
- Long rated life of up to 25,000 hours
- High luminous efficacy of up to 90lm/W (Energy Label: Grade A++)
- High colour rendering of up to Ra80
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Generates less heat than halogen lamps
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.



LED NON-DIRECTIONAL LAMPS

G9



220-240V | Line Voltage

Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series											
LU0502.4-GU9-2800K-230V*	NEW	2.4	190	80	15000	19	46	12	No	A++	1
LU0502.4-GU9-4000K-230V*	NEW	2.4	190	80	15000	19	46	12	No	A++	1
LU0403-GU9-2800K-230V*	NEW	3	250	80	15000	22	53	15	No	A++	2
LU0403-GU9-4000K-230V*	NEW	3	250	80	15000	22	53	15	No	A++	2
Smart Series											
LU0202d-GU9-2800K-230V		2	100	80	25000	20	46	16	100-20%#	A+	3
LU0202d-GU9-4000K-230V		2	100	80	25000	20	46	16	100-20%#	A+	3
LU0303d-GU9-2800K-230V		3	180	80	25000	22	46	22	100-20%#	A+	4
LU0303d-GU9-4000K-230V		3	180	80	25000	22	46	22	100-20%#	A+	4
LU0104d-GU9-2800K-230V		4	220	80	25000	28	68	32	100-10%#	A+	5
LU0104d-GU9-4000K-230V		4	220	80	25000	28	68	32	100-10%#	A+	5

* Capable of linear dimming when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data

LED NON-DIRECTIONAL LAMPS

T-LAMP

LED T-lamp in 1.5W for incandescent replacement

MEGAMAN®'s new LED T-lamp in 1.5W is small but powerful. It delivers the same light output than the 13W incandescent counterpart but consumes at least 88% less energy. Its instant-start function and long lamp life are the clear advantage over traditional incandescent bulbs. Designed to withstand low temperatures, the LED T-lamp is an ideal light source for domestic refrigerators and for general decorative purpose. A summary of its features include:

Product Features

- Ideal replacement for incandescent T-lamp
- High luminous efficiency of up to 80lm/W (Energy Label: Grade A++)
- Long rated life of up to 25,000 hours
- High colour rendering of up to Ra80
- 100% to 20% linear dimming version available*
- Instant start, high energy saving
- Less heat generation than incandescent lamps
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

LED NON-DIRECTIONAL LAMPS

T-LAMP



NEW

1



2

Linear Dimming
100%
Dim on Dimmer Switches

220-240V | Line Voltage

Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series											
LG5501.5-E14-2800K-230V*	NEW	1.5	120	80	15000	26	57	15	No	A++	1
LG5501.5-E14-4000K-230V*	NEW	1.5	120	80	15000	26	57	15	No	A++	1
Smart Series											
LG2402d-E14-2800K-230V		2	100	80	25000	26	57	17	100-20%#	A+	2
LG2402d-E14-4000K-230V		2	100	80	25000	26	57	17	100-20%#	A+	2

* Capable of linear dimming from 100% to 20% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data

LED NON-DIRECTIONAL LAMPS

R7s

An eco-conscious lighting solution to replace the halogen R7s

The MEGAMAN® LED R7s can fit into most luminaires with an R7s lamp holder and delivers up to 25,000 hours of continuous illumination, making it the perfect energy-saving alternative to the halogen R7s. The MEGAMAN® LED R7s generates much less heat than halogen counterparts do without the concern of overheating and burnout due to the extremely hot double-ended halogens.

Product Features

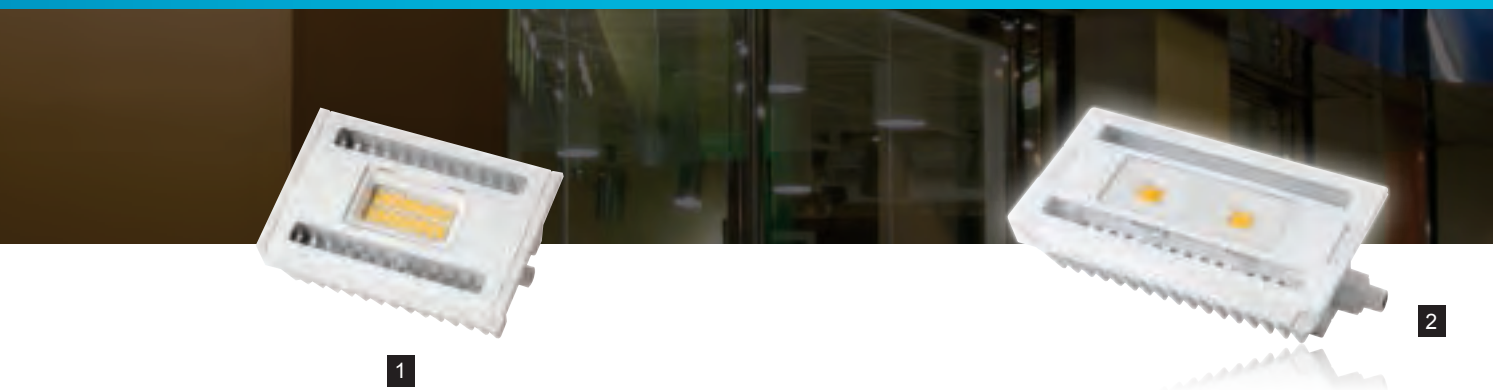
- Allows fitting into most luminaires with an R7s lamp holder
- Available in 78mm and 118mm length options to cater for different applications
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High luminous maintenance
- High colour rendering index of Ra80
- Generate much less heat than the halogen R7s
- Operating temperature: -30°C to +40°C





LED NON-DIRECTIONAL LAMPS

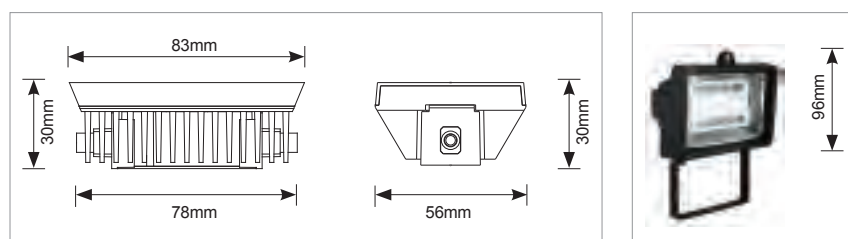
R7s



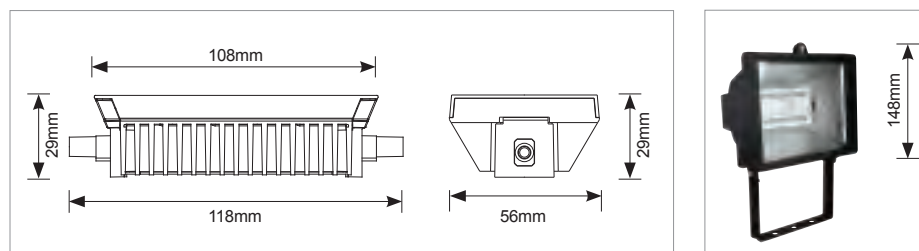
220-240V | Line Voltage

Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Width (mm)	Height (mm)	Length (g)	Weight (g)	Energy Label	Product Photo
Smart Series										
LJ0107-R7s-2800K-230V	7	450	80	25000	56	30	83	115	A+	1
LJ0107-R7s-4000K-230V	7	450	80	25000	56	30	83	115	A+	1
LJ0209-R7s-2800K-230V	9	600	80	25000	56	29	118	144	A	2
LJ0209-R7s-4000K-230V	9	600	80	25000	56	29	118	144	A	2

LJ0107-R7s



LJ0209-R7s



MEGAMAN® R7s is an eco-conscious alternative to halogen R7s that can perfectly fit into most of the luminaire with R7s lamp base.

LED NON-DIRECTIONAL LAMPS

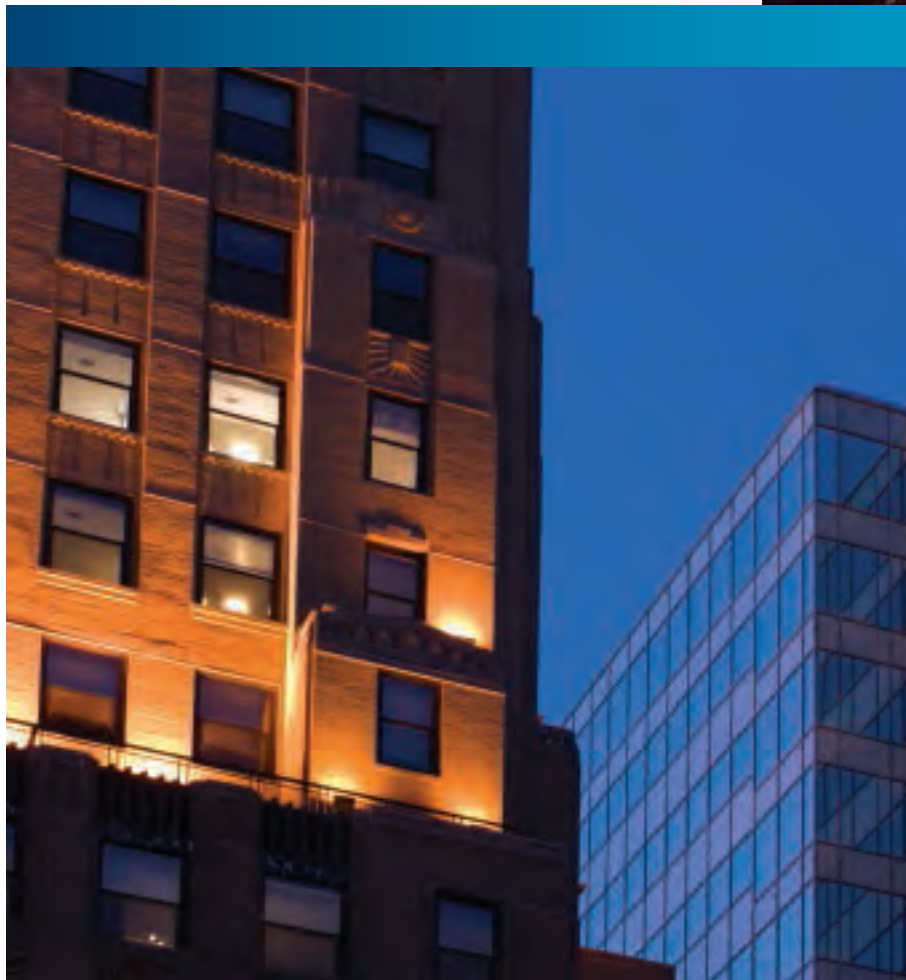
CLUSTERLITE®

The ultimate high brightness solution - MEGAMAN® CLUSTERLITE® Series

Designed to replace the mercury tungsten blended lamps and metal halide lamps, MEGAMAN® Clusterlite® series has very high lumen output of 2800lm but consuming 27W of electricity only . It offers immense illumination output for large-scale commercial and industrial applications, including bus and train terminus, exhibition halls, shopping malls, showrooms, factories, warehouses, street lighting and billboards. Its powerful features include:

Product Features

- Superb lighting output while saving large amount of energy
- No shortcomings of traditional solutions which generate excess heat and consumes more energy
- Free of harmless UV and radioactive Kr85 even when the lamp breaks
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High luminous efficacy of up to 104lm/W
- Availability of warmwhite and coolwhite colour temperature
- Instant start and hot re-strike capability
- High colour temperature consistency



LED NON-DIRECTIONAL LAMPS

CLUSTERLITE®



NEW

220-240V | Line Voltage

Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label	Product Photo
Smart Series										
LH0127-E27-2800K-230V	NEW	27	2800	80	25000	63	188	345	A+	1
LH0127-E27-4000K-230V	NEW	27	2800	80	25000	63	188	345	A+	1

Ambient temperature inside the fixture: $\leq 60^{\circ}\text{C}$.
Noise level: 23dB in an enclosed fixture and 35dB when free burning.





LED TUBES

- T8

LED TUBES

T8

New economical T8 LED solution replaces the traditional fluorescent T8 tube

Featuring 270° and 330° exit windows, the new LED T8 Economy Series offers an even light distribution that closely resembles fluorescent tubes. The high efficacy of up to 106lm/W means less electricity is consumed to generate high quality light efficiently. The series has a fully enclosed design that delivers a robust and refined appearance with an instant start function. The LED T8 is an ideal solution for a wide range of applications.

Product Features

- Refined, glossy and smooth appearance that is just like a fluorescent T8 tube
- Compatible with traditional magnetic ballast for the T8 fluorescent
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Excellent heat dissipation; generates less heat than fluorescent lamps
- No buzzing noise, fluorescent flickering or RF interference
- Instant start and reliable operation even at temperatures as low as -30°C
- Easy to fit by hand: simply replace the old tube and exchange the given starter



Professional Series

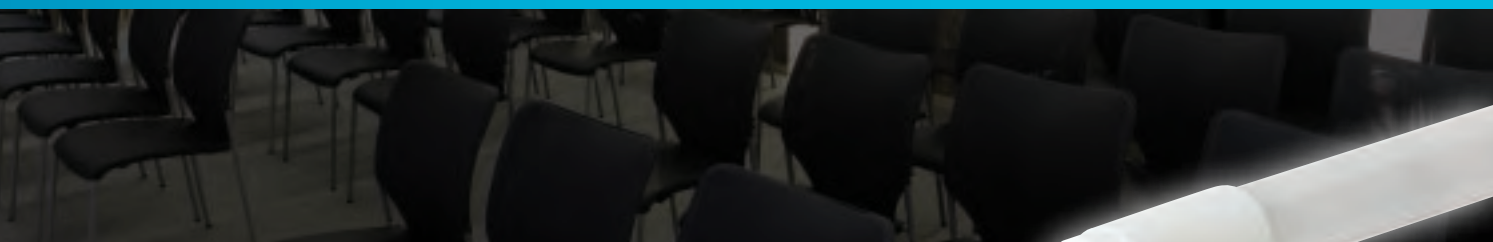
- Wide 180° exit window, offers an even light distribution
- Eliminates dark regions at both ends of the T8 tube
- Complied with VDE safety requirement

Economy Series

- Wide 270° and 330° exit window, offers an even light distribution



LED TUBES T8



NEW

220-240V | Line Voltage

Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Economy Series									
Tube Length: 0.6m									
LT0409.5-G13-3000K-230V*	330° NEW	9.5	800	80	40000	27.5	602	115	A+
LT0409.5-G13-4000K-230V*	330° NEW	9.5	880	80	40000	27.5	602	115	A+
LT0414-G13-3000K-230V	270° NEW	14	1300	80	40000	27.5	602	169	A+
LT0414-G13-4000K-230V	270° NEW	14	1400	80	40000	27.5	602	169	A+
Tube Length: 1.2m									
LT0518-G13-3000K-230V*	330° NEW	18	1600	80	40000	27.5	1212	190	A+
LT0518-G13-4000K-230V*	330° NEW	18	1750	80	40000	27.5	1212	190	A+
LT0523.5-G13-3000K-230V	270° NEW	23.5	2200	80	40000	27.5	1212	321	A+
LT0523.5-G13-4000K-230V	270° NEW	23.5	2400	80	40000	27.5	1212	321	A+
Tube Length: 1.5m									
LT0622-G13-3000K-230V*	330° NEW	22	2000	80	40000	27.5	1513	184	A+
LT0622-G13-4000K-230V*	330° NEW	22	2200	80	40000	27.5	1513	184	A+
LT0624.5-G13-3000K-230V	270° NEW	24.5	2400	80	40000	27.5	1513	394	A+
LT0624.5-G13-4000K-230V	270° NEW	24.5	2600	80	40000	27.5	1513	394	A+

* Preliminary data

T8



220-240V | Line Voltage



Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Professional Series									
Tube Length: 0.6m									
LT0316-G13-3000K-230V	180°	16	1280	80	50000	27.5	602	207	A+
LT0316-G13-4000K-230V	180°	16	1400	80	50000	27.5	602	207	A+
Tube Length: 1.2m									
LT0118-G13-3000K-230V	180°	18	1500	80	50000	27.5	1212	398	A+
LT0118-G13-4000K-230V	180°	18	1650	80	50000	27.5	1212	398	A+
LT0132-G13-3000K-230V	180°	32	2560	80	50000	27.5	1212	398	A+
LT0132-G13-4000K-230V	180°	32	2820	80	50000	27.5	1212	398	A+
Tube Length: 1.5m									
LT0225-G13-3000K-230V	180°	25	2000	80	50000	27.5	1513	422	A+
LT0225-G13-4000K-230V	180°	25	2200	80	50000	27.5	1513	422	A+
LT0242-G13-3000K-230V	180°	42	3300	80	50000	27.5	1513	415	A+
LT0242-G13-4000K-230V	180°	42	3600	80	50000	27.5	1513	415	A+







LED FLEXI & STRIPS

• FLEXI

• STRIP

LED FLEXI & STRIPS

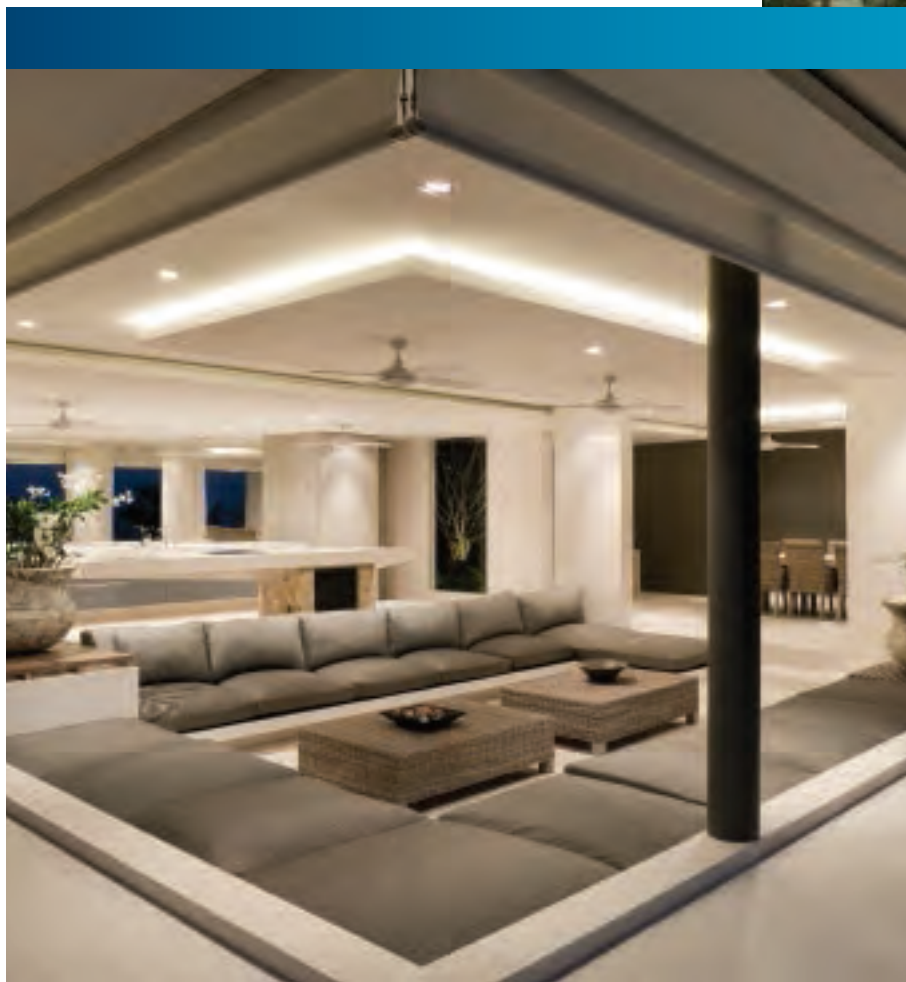
FLEXI

An ideal solution for interior and exterior concealed lighting applications for adjustable, continuous lighting

Designed to be curved freely and fixed on an uneven surface, the MEGAMAN® LED Flexi offers great flexibility in various lighting applications. It is available in up to 25W 5-metre lengths, with an IP rating of IP68. The LED Flexi can be cut every 10cm. Once sealed with the provided end cap, the LED Flexi meets the design requirements for use inside and out.

Product Features

- Eliminates the dark area between flexi connections
- Capable of dimming when working with a pulse width modulation (PWM) dimmer[#]
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at 50,000 hours
- Operating temperature: -30°C to +40°C
- Works with most conventional LED constant voltage drivers with an output voltage of DC 24V



[#] Dimming performance depends on the specification and quality of the PWM dimmer.



LED FLEXI & STRIPS

FLEXI



DC24V | Driven by LED Converter

Product Code		Input Current (mA)	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Width (mm)	Height (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label
Smart Series												
EX0205-3000K	IP68	208	5	300	78	25000	10.5	4	1000	42	Yes [#]	A+
EX0205-4000K	IP68	208	5	300	78	25000	10.5	4	1000	42	Yes [#]	A+
EX0225-3000K	IP68	1042	25	1500	78	25000	10.5	4	5000	209	Yes [#]	A
EX0225-4000K	IP68	1042	25	1500	78	25000	10.5	4	5000	209	Yes [#]	A

[#] Capable of dimming when working with a pulse width modulation (PWM) dimmer, dimming performance depends on the specification and quality of the PWM dimmer.

STRIP

Subtle but efficient, an ideal solution for interior and exterior concealed lighting applications

Covered with a diffuser, the new MEGAMAN® LED Strip ST01xx range eliminates glare by turning hot spots into a soft light source that is perfect for cove lighting and linear illumination applications. The LED Strip provides seamless uniform light distribution and colour temperature, and is available in a variety of lengths from 310mm to 1,810mm.

The MEGAMAN® LED Strip with clear film (model number: EX0305 and EX0405) has a high lumen output up to 1200lm/m, making it an ideal solution for a range of applications, from showcase lighting to continuous cove lighting.

Product Features

- Clear film version offers an IP rating of IP20 and IP65
- Even light distribution creates a comfortable environment
- Ultra slim profile: 8mm and 15mm width, perfect for applications in narrow or limited space
- Eliminates the dark areas between strip connections
- High lumen maintenance, 70% (L70) at the rated life of 50,000 hours
- Capable of dimming when working with a pulse width modulation (PWM) dimmer[#]
- Operating temperature: -30°C to +40°C
- Works with most conventional LED constant voltage drivers with an output voltage of DC 24V



[#] Dimming performance depends on the specification and quality of the PWM dimmer.




LED FLEXI & STRIPS

STRIP



DC24V | Driven by LED Converter

Product Code		Input Current	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Width (mm)	Height (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label
Smart Series												
ST0103-3000K	 	167	4	200	85	30000	8	13	310	51	Yes [#]	A
ST0103-4000K	 	167	4	200	85	30000	8	13	310	51	Yes [#]	A
ST0106-3000K	 	334	8	400	85	30000	8	13	610	81	Yes [#]	A
ST0106-4000K	 	334	8	400	85	30000	8	13	610	81	Yes [#]	A
ST0109-3000K	 	480	11.5	600	85	30000	8	13	910	111	Yes [#]	A
ST0109-4000K	 	480	11.5	600	85	30000	8	13	910	111	Yes [#]	A
ST0112-3000K	 	667	16	800	85	30000	8	13	1210	141	Yes [#]	A
ST0112-4000K	 	667	16	800	85	30000	8	13	1210	141	Yes [#]	A
ST0115-3000K	 	792	19	1000	85	30000	8	13	1510	171	Yes [#]	A
ST0115-4000K	 	792	19	1000	85	30000	8	13	1510	171	Yes [#]	A
ST0118-3000K	 	1000	24	1200	85	30000	8	13	1810	201	Yes [#]	A
ST0118-4000K	 	1000	24	1200	85	30000	8	13	1810	201	Yes [#]	A

[#] Capable of dimming when working with a pulse width modulation (PWM) dimmer; dimming performance depends on the specification and quality of the PWM dimmer.
LED strip available in a variety of lengths from 310mm to 1,810mm (in 100mm increments); please contact us for different length specifications.
Preliminary data

STRIP



IP20 IP65

DC24V | Driven by LED Converter

Product Code		Input Current	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Width (mm)	Height (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label
Smart Series												
EX0305-3000K	IP20	208	5	400	80	25000	15	7	305	49	Yes*	A+
EX0305-4000K	IP20	208	5	400	80	25000	15	7	305	49	Yes*	A+
EX0405-3000K	IP65	208	5	400	80	25000	15	7	305	61	Yes*	A+
EX0405-4000K	IP65	208	5	400	80	25000	15	7	305	61	Yes*	A+

* Capable of dimming when working with a pulse width modulation (PWM) dimmer; dimming performance depends on the specification and quality of the PWM dimmer.





LED LIGHT ENGINE & MODULES

- TECOH® CFx
- TECOH® MHx
- TECOH® RDx
- TECOH® FLx

The world's first 2000 lumen ZHAGA Certified Book 2 LED light engines



Zhaga Interface Specification Book 2 certified

The MEGAMAN® TECOH® CFx range of high performance twist-lock LED Light Engines (LLE) has an integrated driver for general lighting. The TECOH® CFx range is designed in line with ZHAGA specifications and the extended life dimmable range is ZHAGA Book 2 certified. The TECOH® CFx is available in two options – the high-efficiency range and the extended life dimmable range.

The MEGAMAN® TECOH® CFx LLEs are intended for use in downlights for general lighting applications, such as hotel lobbies, restaurants, supermarkets and reception areas. With nominal lumen packages of 1200 and 2000 lumen, the TECOH® CFx LLEs are developed as energy efficient LED alternatives for conventional light sources such as the 50W halogen, and the 2 x 13W and 2 x 18W compact fluorescent lamps.

Product Features

- Perfect alternative to CFL non-integrated and halogen lamps in general lighting applications
- Designed in line with ZHAGA Interface Specification Book 2, enabling interchangeability and easy integration into fixtures
- Twist-lock design with integrated driver that allows easy installation directly on mains input
- Offers different lumen packages in the same compact size, allowing for multifunctional fixture design and flexible stocking
- Smooth Lambertian output
- Future-proof design, enabling easy upgrading
- High efficiency range that offers system efficacies of up to 80lm/W
- The extended life dimmable range offers 100% to 10% linear dimming feature
- Robust design results in high reliability, L70 B10 of up to 35,000 hours
- Colour consistency is ≤ 3 SDCM
- Operating temperature: -30°C to +40°C



LED LIGHT ENGINE & MODULES

TECOH[®] CFx



1



2



Direct Dimming
Works on Dimmer Switches

SDCM
≤3

220-240V | Line Voltage

Product code	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colour Temp. [CRI]	Life Time at L70 B10 and Tc 65°C (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
High Efficiency Range											
CF0112d/PHJ65d-2-828-230V	15	1200	80	2800K [Ra82]	25000	70	41	142	No	A+	1
CF0112d/PHJ65d-2-840-230V	15	1200	80	4000K [Ra85]	25000	70	41	142	No	A+	1
CF0120d/PHJ65d-2-828-230V	26	2000	77	2800K [Ra82]	25000	70	41	143	No	A	1
CF0120d/PHJ65d-2-840-230V	26	2000	77	4000K [Ra85]	25000	70	41	143	No	A	1
Extended Life Dimmable Range											
CF0112d/PHJ65d-2-828-230V	20	1100	55	2800K [Ra80]	35000	70	41	110	100-10%#	A	2
CF0112d/PHJ65d-2-840-230V	20	1200	60	4000K [Ra80]	35000	70	41	110	100-10%#	A	2
CF0120d/PHJ65d-2-828-230V	30	1800	60	2800K [Ra80]	35000	70	41	112	100-10%#	A	2
CF0120d/PHJ65d-2-840-230V	30	2000	67	4000K [Ra80]	35000	70	41	112	100-10%#	A	2

Capable of linear dimming from 100% to 10% when working with conventional dimmers, please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

TECOH® MHx Gen2

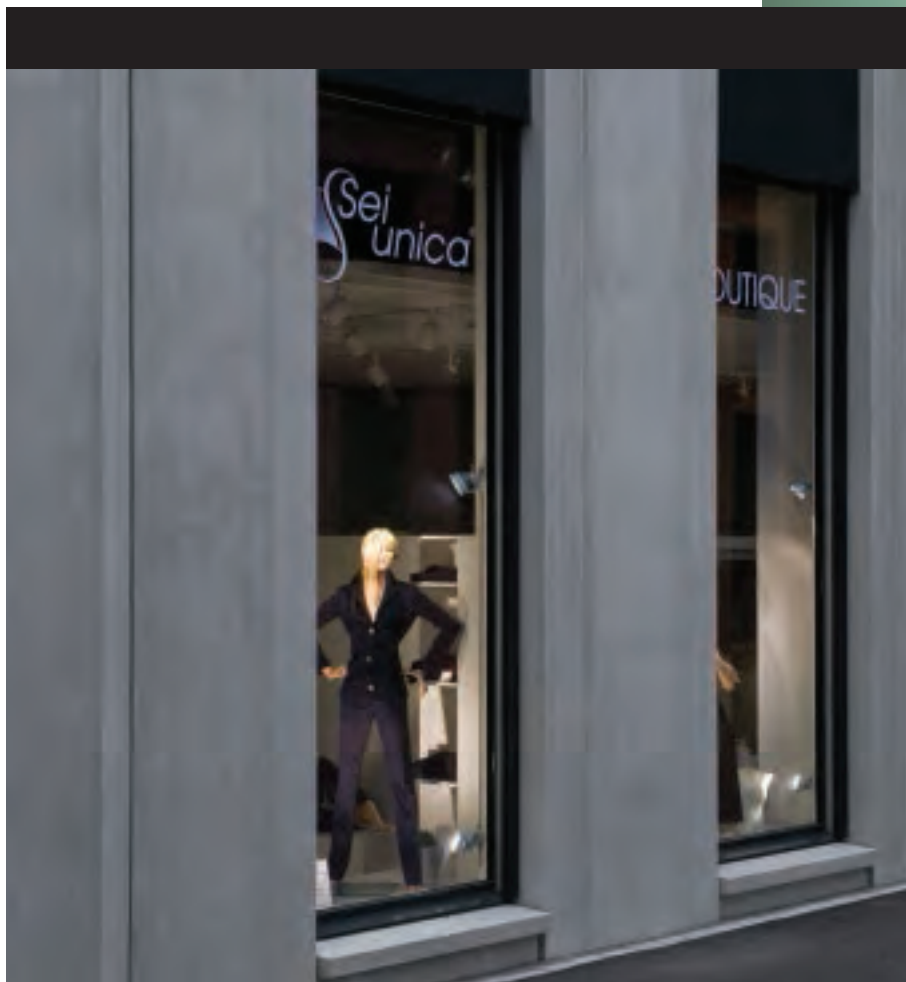
Superb lighting performance for a true alternative to 20W and 35W metal halide lamps

The TECOH® MHx is an LED “capsule” with dimensions similar to G12/GU6.5-based ceramic metal halide lamps. With the introduction of the TECOH® MHx Gen 2, the product efficacy has been upgraded to offer energy-savings compared to ceramic metal halide alternatives. The current product range comprises a 24W/17W LED capsule as a viable alternative to a 35W/20W ceramic metal halide product.

With its unique design, the TECOH® MHx is the ideal lighting solution for a variety of shop lighting applications, such as boutiques, food outlets and shopping malls. Due to the absence of UV radiation and negligible IR radiation, the TECOH® MHx also successfully meets all the requirements for museum and gallery lighting.

Product Features

- With minimal design modifications required, the TECOH® MHx can be used in many existing fixtures (the light centre from the base is the same height as in G12 or GU6.5 lamps)
- Instant start and hot re-strike capable
- Eliminates the risk of potential exposure to UV and radioactive Kr85 in case of lamp breakage
- Capable of linear dimming from 100% to 1% when used with a DC1-10V dimming driver and DC1-10V dimmer
- Future-proof design, enabling, as required, easy upgrading of the TECOH® MHx
- Long lamp life (L70 B10) of up to 50,000 hours, which is three times longer than metal halides lamps
- High colour rendering of up to Ra85; an R9 option offers an outstanding CRI of Ra94
- Colour consistency is ≤ 3 SDCM
- Operating temperature: -30°C to +40°C



LED LIGHT ENGINE & MODULES

TECOH[®] MHx Gen2



1



2

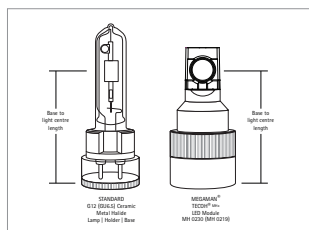


100% - 1%
Dimmable

SDCM
≤3

Driven by LED Converter

Product code	Input Current (mA)	Nominal Voltage (V)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colour Temp. [CRI]	Life Time at L70 B10 and Tc 75°C (hrs)	Diameter (mm)	Height (mm)	Weight (g)	Energy Label	Product Photo
Professional Series												
MH0219/830-500mA	500	DC 34V	17	1700	100	3000K [Ra82]	50000	25	50	37	A+	1
MH0219/840-500mA	500	DC 34V	17	1900	112	4000K [Ra85]	50000	25	50	37	A+	1
MH0130/830-700mA	700	DC 36V	24	2700	113	3000K [Ra82]	50000	34	62	85	A+	2
MH0130/840-700mA	700	DC 36V	24	3000	125	4000K [Ra85]	50000	34	62	85	A+	2
MH0130R9/930-700mA	700	DC 36V	24	2300	96	3000K [Ra94]	50000	34	62	85	A+	2
MH0130R9/940-700mA	700	DC 36V	24	2500	104	4000K [Ra94]	50000	34	62	85	A+	2



LED Constant Current Converter

Accessory: A lamp holder is needed to hold the LED module



LD0217x1v-C500
MH0219/830-500mA
MH0219/840-500mA



LD0424x1v-C700
MH0130/830-700mA
MH0130/840-700mA
MH0130R9/930-700mA
MH0130R9/940-700mA



LB2602 for MH0219



LB2601 for MH0130

Capable of linear dimming from 100% to 1% when connected to a DC1-10V dimming driver and a DC1-10V dimmer; please refer to page 130 for details of the LED converter.

TECOH® RDx

Offers excellent lumen packaging of up to 6030lm[#]

The TECOH® RDx are round disc LED modules that are non-socketable and require an external electronic driver. Together, the module and driver form the LED Light Engine.

The TECOH® RDx modules are designed in line with ZHAGA Interface Specification Book 3 and offer lumen packages of 1510 up to 6030 lumen[#] all in the same compact size of 50mm diameter and 7.2 mm height.

These high-performance compact round disc modules are ideal for use in spotlight fixtures, tracklighting, downlighting and floodlighting a wide variety of applications, such as accent and display lighting, and show window lighting, as well as for the illumination of reception areas, hotel lobbies, galleries and restaurants.

Product Features

- Designed in line with ZHAGA Interface Specification Book 3, enabling interchangeability and easy integration into fixtures
- High thermal and optical performance, enabling efficient and compact fixture designs
- Packages from 1510 up to 6030 lumens[#] with identical construction of 50mm diameter and 7.2mm height for multifunctional fixture design
- All modules have the same Light Emitting Surface (LES), with the advantage that one reflector fits all modules for high flexibility and reduced stock holdings
- Modules (M type) available for flexible operation in high efficiency, normal and high output modes by simply changing the input current
- Modules designed for screw or screw-less mounting
- High efficient lighting solutions with an energy label of A and A+
- Long lamp life (L70 B10) of up to 50,000 hours
- Colour consistency is ≤ 3 SDCM
- High CRI versions: Ra94 available ideal for retail applications
- Operating temperature: -30°C to +40°C



[#] The rated luminous flux is declared at case temperature (Tc) 25°C.
Please visit www.megamanlighting.com/OEM for the latest information on the TECOH® family.

LED LIGHT ENGINE & MODULES

TECOH® RDx



NEW

Driven by LED Converter

Dimmable#

SDCM
≤3

50mm
7.2mm

Product code	Input Current (mA)	Nominal Voltage (V)	Wattage (W)	Luminous Flux at Tc 25°C (lm)	Luminous Efficacy at Tc 25°C (lm/W)	Luminous Flux at Tc 65°C (lm)	Luminous Efficacy at Tc 65°C (lm/W)	Colour Temp. [CRI]	Life Time at L70/B10 and Tc 65°C (hrs)	Energy Label
Professional Series										
RD0114M/830-350mA HE^	350	DC 37V	13	1510	116	1300	100	3000K [Ra82]	50000	A+
RD0114M/840-350mA HE^	350	DC 37V	13	1630	125	1400	108	4000K [Ra82]	50000	A+
RD0114M/830-500mA NM^	500	DC 37V	18	1860	103	1600	89	3000K [Ra82]	50000	A+
RD0114M/840-500mA NM^	500	DC 37V	18	1970	109	1700	94	4000K [Ra82]	50000	A+
RD0114M/830-700mA HO^	700	DC 39V	27	2330	86	2000	74	3000K [Ra82]	50000	A
RD0114M/840-700mA HO^	700	DC 39V	27	2560	95	2200	81	4000K [Ra82]	50000	A
RD0226M/830-700mA HE^	700	DC 37V	25	2790	112	2400	96	3000K [Ra82]	50000	A+
RD0226M/840-700mA HE^	700	DC 37V	25	3020	121	2600	104	4000K [Ra82]	50000	A+
RD0226M/830-1050mA HO^	1050	DC 37V	38	3370	89	2900	76	3000K [Ra82]	50000	A
RD0226M/840-1050mA HO^	1050	DC 37V	38	3600	95	3100	82	4000K [Ra82]	50000	A
RD0340M/830-1050mA HE^	1050	DC 37V	37	4400	119	3800	103	3000K [Ra82]	50000	A+
RD0340M/840-1050mA HE^	1050	DC 37V	37	4650	126	4000	108	4000K [Ra82]	50000	A+
RD0340M/830-1400mA HO^	1400	DC 37V	50	5220	104	4500	90	3000K [Ra82]	50000	A+
RD0340M/840-1400mA HO^	1400	DC 37V	50	5450	109	4700	94	4000K [Ra82]	50000	A+
RD0340MR9/930-1050mA HE^	1050	DC 37V	37	3480	94	3000	81	3000K [Ra94]	50000	A
RD0340MR9/940-1050mA HE^	1050	DC 37V	37	3710	100	3200	86	4000K [Ra94]	50000	A+
RD0340MR9/930-1400mA HO^	1400	DC 37V	50	4060	81	3500	70	3000K [Ra94]	50000	A
RD0340MR9/940-1400mA HO^	1400	DC 37V	50	4300	86	3700	74	4000K [Ra94]	50000	A
RD0552/830-1050mA*	1050	DC 47V	50	5800	116	5000	100	3000K [Ra82]	50000	A+
RD0552/840-1050mA*	1050	DC 47V	50	6030	121	5200	104	4000K [Ra82]	50000	A+
RD0552R9/930-1050mA*	1050	DC 47V	50	4880	98	4200	84	3000K [Ra94]	50000	A
RD0552R9/940-1050mA*	1050	DC 47V	50	5110	102	4400	88	4000K [Ra94]	50000	A+

^ Multiple operation modes are available for models that carry an "M" at the end of the model number.

A dimming feature is available and driver choice can enhance performance.

* Preliminary data

TECOH® FLx Gen2

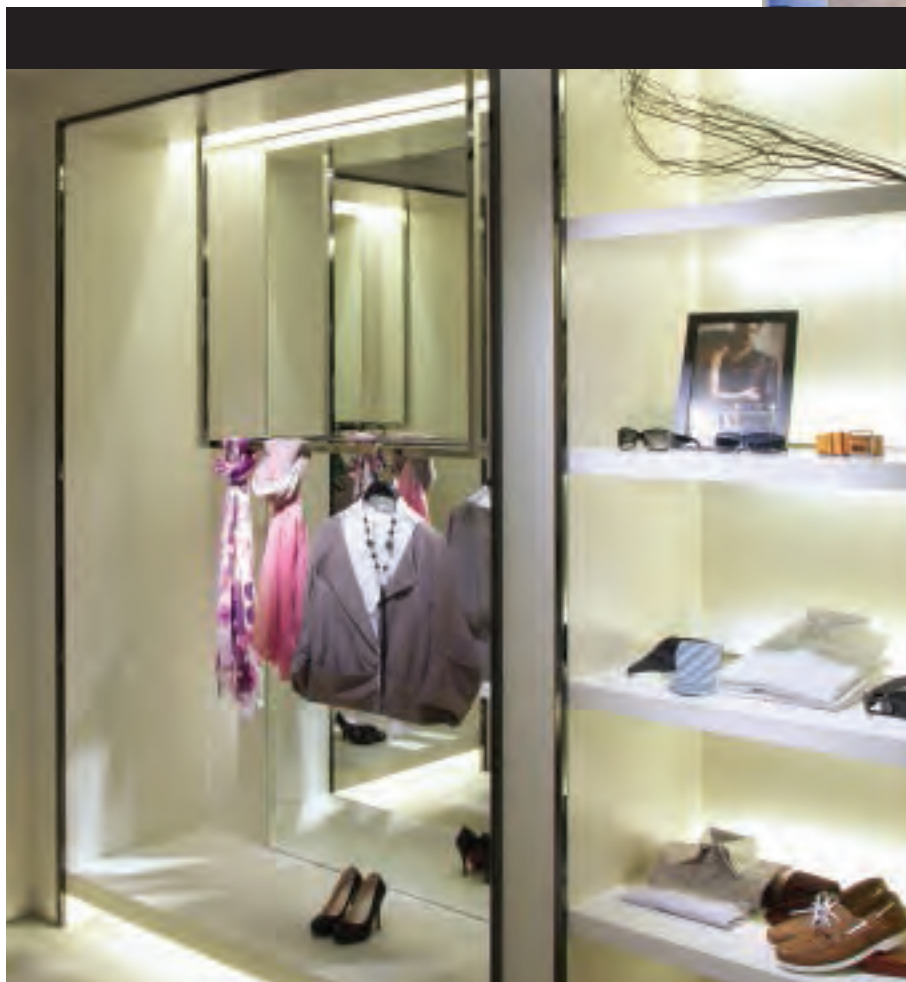
The MEGAMAN® rectangular-shaped TECOH® FLx is a perfect replacement for fluorescent lights

Designed as a perfect replacement for conventional fluorescent lighting in new luminaires, the MEGAMAN® TECOH® FLx is a rectangular-shaped range of LED modules. Where applicable, the modules are designed in line with the ZHAGA Interface Specification Book 7. Different lumen packages and sizes are available for different lighting installations and combinations. The lengths of 280mm or 560mm can be mixed and matched to make up to the regular fluorescent tube lengths of 0.6m, 1.2m and 1.5m.

As the perfect alternative for fluorescent lamps to be used in linear and flat luminaires with diffuse covers, this innovative LED module is used in a wide range of general lighting applications such as direct lighting in offices, schools, meeting rooms, corridors, supermarkets and manufacturing halls, and so on. Some of its attractive features include:

Product Features

- Highly efficient lighting solutions with energy label A+ and A++ with efficacies up to 141lm/W for the Gen2 series
- Long lamp life (L70 B10) of 50,000 hours
- Simple interconnection of the LED modules makes them a flexible solution suitable for continuous line configurations without gaps and dark zones
- Designed to operate on standard 700mA constant current drivers
- Wide range of operating temperatures from -30°C to +50°C
- Capable of linear dimming from 100% to 1% when used with a DC1-10V dimming driver and DC1-10V dimmer
- Self-cooling modules that do not need specially designed heat-sinks
- High colour rendering of up to Ra85
- Colour consistency is ≤ 3 SDCM



LED LIGHT ENGINE & MODULES

TECOH® FLx Gen2

NEW

Dimmable*

SDCM
≤3

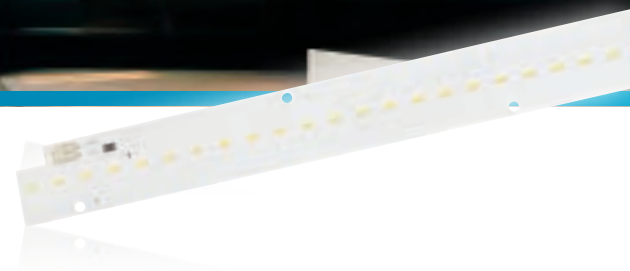
Driven by LED Converter

Product code		Input Current (mA)	Nominal Voltage (V)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colour Temp. [CRI]	Life Time at L70 B10 at Tc 85°C (hrs)	Length (mm)	Width (mm)	Height (mm)	Energy Label
Gen2												
FL0305v2/830-L28W2-700mA*	NEW	700	6	4	513	128	3000K [Ra80]	50000	280	20	6.2	A++
FL0305v2/840-L28W2-700mA*	NEW	700	6	4	563	141	4000K [Ra80]	50000	280	20	6.2	A++
FL0411/830-L56W2-700mA*	NEW	700	12	8	1025	128	3000K [Ra80]	50000	560	20	6.2	A++
FL0411/840-L56W2-700mA*	NEW	700	12	8	1125	141	4000K [Ra80]	50000	560	20	6.2	A++
FL0311/830-L28W2-700mA*	NEW	700	12	8	1025	128	3000K [Ra80]	50000	280	20	6.2	A++
FL0311/840-L28W2-700mA*	NEW	700	12	8	1125	141	4000K [Ra80]	50000	280	20	6.2	A++
FL0422/830-L56W2-700mA*	NEW	700	24	16	2050	128	3000K [Ra80]	50000	560	20	6.2	A+
FL0422/840-L56W2-700mA*	NEW	700	24	16	2250	141	4000K [Ra80]	50000	560	20	6.2	A++
FL0505v2/830-L28W3-700mA*	NEW	700	6	4	513	128	3000K [Ra80]	50000	280	31	6.2	A++
FL0505v2/840-L28W3-700mA*	NEW	700	6	4	563	141	4000K [Ra80]	50000	280	31	6.2	A++
FL0611/830-L56W3-700mA*	NEW	700	12	8	1025	128	3000K [Ra80]	50000	560	31	6.2	A++
FL0611/840-L56W3-700mA*	NEW	700	12	8	1125	141	4000K [Ra80]	50000	560	31	6.2	A++
FL0511/830-L28W3-700mA*	NEW	700	12	8	1025	128	3000K [Ra80]	50000	280	31	6.2	A++
FL0511/840-L28W3-700mA	NEW	700	12	8	1125	141	4000K [Ra80]	50000	280	31	6.2	A++
FL0622/830-L56W3-700mA	NEW	700	24	16	2050	128	3000K [Ra80]	50000	560	31	6.2	A+
FL0622/840-L56W3-700mA	NEW	700	24	16	2250	141	4000K [Ra80]	50000	560	31	6.2	A++
FL0105v3/830-L28W4-700mA	NEW	700	6	4	513	128	3000K [Ra80]	50000	280	40	6.2	A++
FL0105v3/840-L28W4-700mA	NEW	700	6	4	563	141	4000K [Ra80]	50000	280	40	6.2	A++
FL0211v3/830-L56W4-700mA	NEW	700	12	8	1025	128	3000K [Ra80]	50000	560	40	6.2	A++
FL0211v3/840-L56W4-700mA	NEW	700	12	8	1125	141	4000K [Ra80]	50000	560	40	6.2	A++
FL0111v3/830-L28W4-700mA	NEW	700	12	8	1025	128	3000K [Ra80]	50000	280	40	6.2	A++
FL0111v3/840-L28W4-700mA	NEW	700	12	8	1125	141	4000K [Ra80]	50000	280	40	6.2	A++
FL0222v3/830-L56W4-700mA	NEW	700	24	16	2050	128	3000K [Ra80]	50000	560	40	6.2	A+
FL0222v3/840-L56W4-700mA	NEW	700	24	16	2250	141	4000K [Ra80]	50000	560	40	6.2	A++

* A dimming feature is available and driver choice can enhance performance.

* Preliminary data

TECOH®
FLx



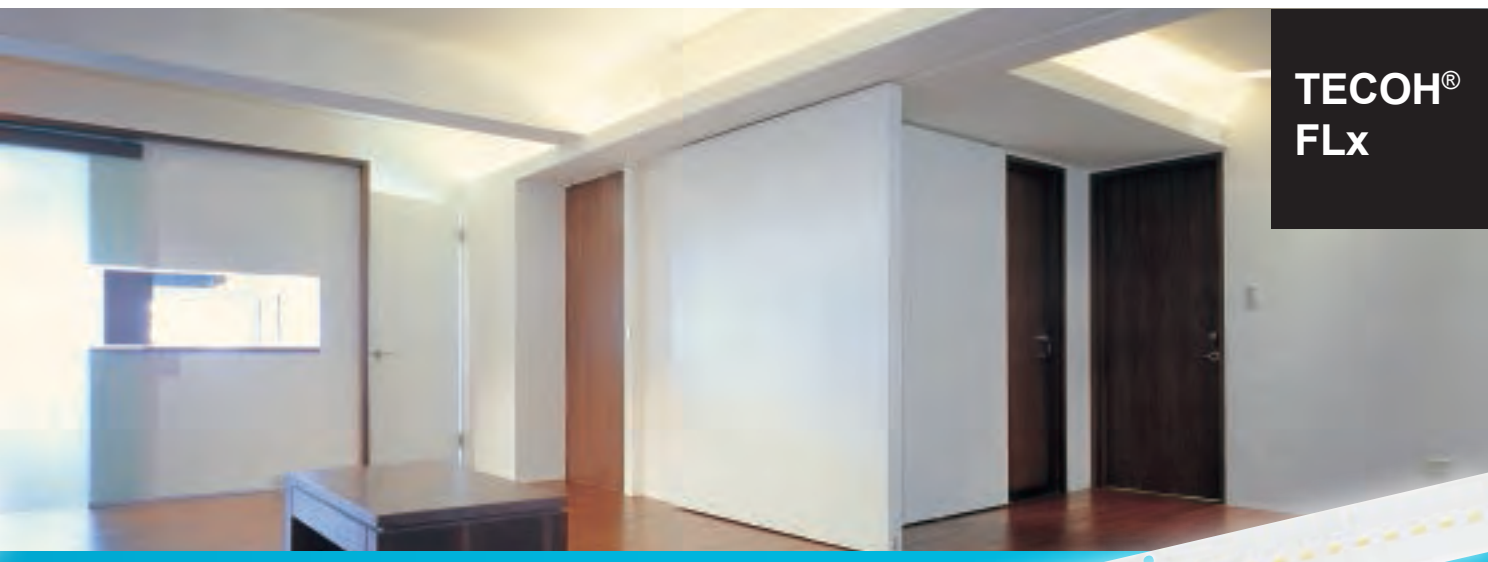
Driven by LED Converter

Dimmable*

SDCM
≤3

Product code	Input Current (mA)	Nominal Voltage (V)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colour Temp. [CRI]	Life Time at L70 B10 at Tc 85°C (hrs)	Length (mm)	Width (mm)	Height (mm)	Energy Label
Gen1											
FL0305/830-L28W2-700mA	700	6.3	4.4	500	114	3000K [Ra80]	50000	280	20	6.2	A++
FL0305/840-L28W2-700mA	700	6.3	4.4	525	119	4000K [Ra80]	50000	280	20	6.2	A++
FL0410/830-L56W2-700mA	700	12.5	8.8	1000	114	3000K [Ra80]	50000	560	20	6.2	A+
FL0410/840-L56W2-700mA	700	12.5	8.8	1050	119	4000K [Ra80]	50000	560	20	6.2	A+
FL0310/830-L28W2-700mA	700	12.5	8.8	1000	114	3000K [Ra80]	50000	280	20	6.2	A+
FL0310/840-L28W2-700mA	700	12.5	8.8	1050	119	4000K [Ra80]	50000	280	20	6.2	A+
FL0421/830-L56W2-700mA	700	25	17.5	2000	114	3000K [Ra80]	50000	560	20	6.2	A+
FL0421/840-L56W2-700mA	700	25	17.5	2100	120	4000K [Ra80]	50000	560	20	6.2	A+
FL0505/830-L28W3-700mA	700	6.3	4.4	500	114	3000K [Ra80]	50000	280	31	6.2	A++
FL0505/840-L28W3-700mA	700	6.3	4.4	525	119	4000K [Ra80]	50000	280	31	6.2	A++
FL0610/830-L56W3-700mA	700	12.5	8.8	1000	114	3000K [Ra80]	50000	560	31	6.2	A+
FL0610/840-L56W3-700mA	700	12.5	8.8	1050	119	4000K [Ra80]	50000	560	31	6.2	A+
FL0510/830-L28W3-700mA	700	12.5	8.8	1000	114	3000K [Ra80]	50000	280	31	6.2	A+
FL0510/840-L28W3-700mA	700	12.5	8.8	1050	119	4000K [Ra80]	50000	280	31	6.2	A+
FL0621/830-L56W3-700mA	700	25	17.5	2000	114	3000K [Ra80]	50000	560	31	6.2	A+
FL0621/840-L56W3-700mA	700	25	17.5	2100	120	4000K [Ra80]	50000	560	31	6.2	A+

* A dimming feature is available and driver choice can enhance performance.



NEW



Dimmable*

SDCM
≤3

Driven by LED Converter

Product code		Input Current (mA)	Nominal Voltage (V)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colour Temp. [CRI]	Life Time at L70 B10 at Tc 85°C (hrs)	Length (mm)	Width (mm)	Height (mm)	Energy Label
R9												
FL0304R9/930-L28W2-700mA	NEW	700	6.3	4.4	440	100	3000K [Ra90]	50000	280	20	6.2	A++
FL0304R9/940-L28W2-700mA	NEW	700	6.3	4.4	465	106	4000K [Ra90]	50000	280	20	6.2	A++
FL0409R9/930-L56W2-700mA	NEW	700	12.5	8.8	880	100	3000K [Ra90]	50000	560	20	6.2	A+
FL0409R9/940-L56W2-700mA	NEW	700	12.5	8.8	925	105	4000K [Ra90]	50000	560	20	6.2	A+
FL0309R9/930-L28W2-700mA	NEW	700	12.5	8.8	880	100	3000K [Ra90]	50000	280	20	6.2	A+
FL0309R9/940-L28W2-700mA	NEW	700	12.5	8.8	925	105	4000K [Ra90]	50000	280	20	6.2	A+
FL0418R9/930-L56W2-700mA	NEW	700	25	17.5	1760	101	3000K [Ra90]	50000	560	20	6.2	A+
FL0418R9/940-L56W2-700mA	NEW	700	25	17.5	1850	106	4000K [Ra90]	50000	560	20	6.2	A+
FL0504R9/930-L28W3-700mA	NEW	700	6.3	4.4	440	100	3000K [Ra90]	50000	280	31	6.2	A++
FL0504R9/940-L28W3-700mA	NEW	700	6.3	4.4	465	106	4000K [Ra90]	50000	280	31	6.2	A++
FL0609R9/930-L56W3-700mA	NEW	700	12.5	8.8	880	100	3000K [Ra90]	50000	560	31	6.2	A+
FL0609R9/940-L56W3-700mA	NEW	700	12.5	8.8	925	105	4000K [Ra90]	50000	560	31	6.2	A+
FL0509R9/930-L28W3-700mA	NEW	700	12.5	8.8	880	100	3000K [Ra90]	50000	280	31	6.2	A+
FL0509R9/940-L28W3-700mA	NEW	700	12.5	8.8	925	105	4000K [Ra90]	50000	280	31	6.2	A+
FL0618R9/930-L56W3-700mA	NEW	700	25	17.5	1760	101	3000K [Ra90]	50000	560	31	6.2	A+
FL0618R9/940-L56W3-700mA	NEW	700	25	17.5	1850	106	4000K [Ra90]	50000	560	31	6.2	A+

* A dimming feature is available and driver choice can enhance performance.
Preliminary data





SPECIAL LAMPS

- R9
- BRILLIANT TONE
- MELLOTONE
- CROWN SILVER
- SENSOR LIGHT
- PLANT LAMP
- COLOUR BULB
- NIGHT LIGHT

SPECIAL LAMPS

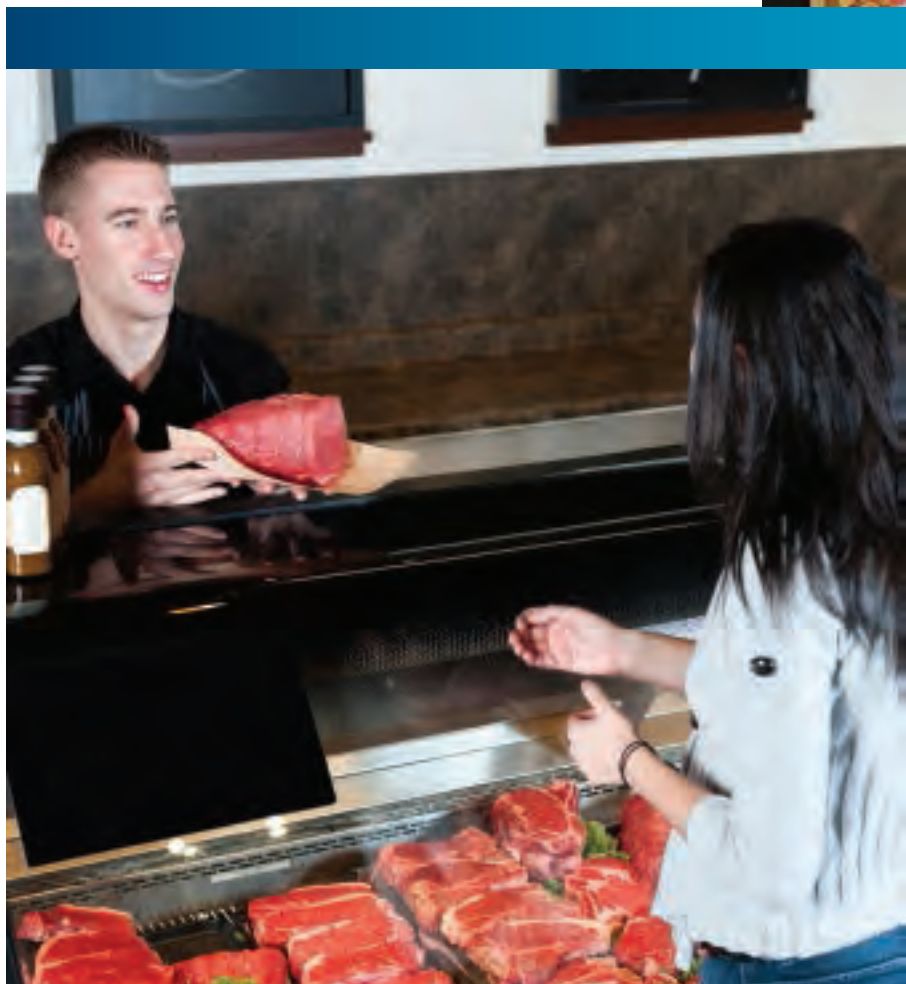
R9

Optimised colour rendition LED lamps for lighting food displays

The MEGAMAN® R9 series has been specifically designed to maximise the visual impact of meat, fresh fruit and vegetables by increasing the red colour rendition of the product. These lamps offer the same high-quality light intensity and colour rendering of traditional halogen and metal halide lamps, but in a safer to control, more energy-efficient format.

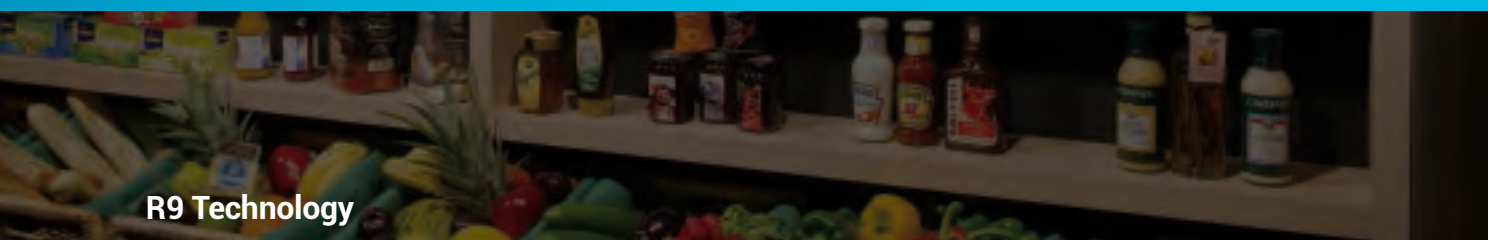
Product Features

- High red colour rendition (R9) value of ≥ 75
- Maximum colour rendering of up to Ra94
- Different lamp types are available to cater for different applications
- Instant start capable – reaches the declared colour temperature at the time of switching on, while metal halides deliver a greenish colour when starting up
- Hot re-strike capable
- Eliminates the risk of potential exposure to UV and radioactive KR85 in case of lamp breakage
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Operating temperature: -30°C to $+40^{\circ}\text{C}$



SPECIAL LAMPS

R9



MEGAMAN®'s LED R9 series highlights the natural colours of meat, fresh fruits and vegetables by increasing the product's red colour rendition, making them even more appealing and desirable for the customers. Thanks to MEGAMAN®'s innovative design and patented technology, this series offers food retailers a high-quality lighting solution with superb performance and energy-efficiency, replacing traditional halogen and metal halide lamps which consume more energy and release more heat.

When we determine the general colour rendering index (Ra), the first eight colours in the Test Colour Sample (TCS; see Figure 1) defined in

accordance with DIN 6169 are employed for the calculation. In addition to these eight colours (R1 to R8), there are another six colours (R9 to R14) that are more vivid and known as “saturated” colours.

The MEGAMAN® LED R9 lamp not only has a high red colour rendition (R9) value of ≥ 75 , but it also has a high value of the other “saturated” colours (R10 to R14), which allows the beautiful red of an object to be revealed and creates well-balanced and high-quality lighting. The MEGAMAN® LED R9 series is perfect for food and other display lighting applications where a sense of freshness and the richness of red are needed.



TSC	Appearance under daylight	Sample
R1	Light greyish red	
R2	Dark greyish yellow	
R3	Strong yellow green	
R4	Moderate yellowish green	
R5	Light bluish green	
R6	Light blue	
R7	Light violet	
R8	Light reddish purple	
R9	Strong red	
R10	Strong yellow	
R11	Strong green	
R12	Strong blue	
R13	Light yellowish pink	
R14	Moderate olive green	

Figure 1 Test Colour Sample

SPECIAL LAMPS

R9



1

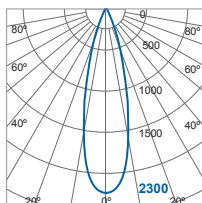


2

220-240V | Line Voltage

Lamp Type	Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Professional Series													
PAR30S	LR1412dR9-75H30D-E27-2800K-230V	12	2300	30	470	94	30000	95	88	263	100-10%#	A	1
PAR30S	LR1412dR9-75H30D-E27-4000K-230V	12	2300	30	470	94	30000	95	88	263	100-10%#	A	1
PAR38	LR0920R9-25M25D-E27-2800K-230V	20	5000	25	900	94	30000	121	133	485	No	A	2
PAR38	LR0920R9-25M25D-E27-4000K-230V	20	5000	25	900	94	30000	121	133	485	No	A	2

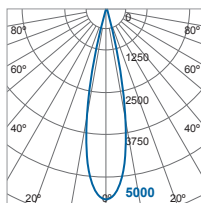
LR1412dR9-75H30D



m	Lux	Ø cm
0.5	9200	27
1	2300	54
1.5	1022	80
2	575	107

Beam angle = 30°

LR0920R9-25M25D



m	Lux	Ø cm
0.5	20000	22
1	5000	44
1.5	2222	67
2	1250	89

Beam angle = 25°

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.



SPECIAL LAMPS

BRILLIANT TONE

MEGAMAN® Brilliant Tone makes jewellery glows and glitters

Using 5500K illumination, MEGAMAN®'s LED Brilliant Tone produces captivating and sparkling light effects to reflect the beauty of jewellery, diamonds and crystals. It generates less heat as compared to conventional lamps, is up to 80% or even more energy efficient and requires less maintenance as compared to conventional lamps. It helps clients save energy costs and has more benefits to offer:

Product Features

- Deliver splendid and brilliant lighting: 5500K colour temperature
- Excellent colour rendering
- Linear dimming function is available in certain models.
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Different lamp types are available to cater for various applications
- Operating temperature: -30°C to +40°C
- High colour temperature consistency



SPECIAL LAMPS

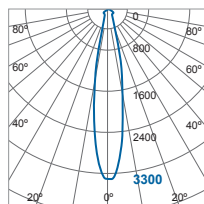
BRILLIANT TONE



DC20V | Driver by LED Converter

Lamp Type	Product Code	Input Current	Voltage (V)	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Professional Series													
PAR16	ER0510-50H24D-GU5.3-5500K	460	DC 20V	10	3300	24	620	85	30000	50	82	123	A

ER0510-50H24D



m	Lux	Ø cm
0.5	13200	21
1	3300	43
1.5	1467	64
2	825	85

Beam angle = 24°



Suggested LED Converter:
LD0110x1v-C460

Capable of linear dimming from 100% to 1% when connected to a DC1-10V dimming driver and a DC1-10V dimmer; please refer to page 130 for details of the LED converter.

SPECIAL LAMPS

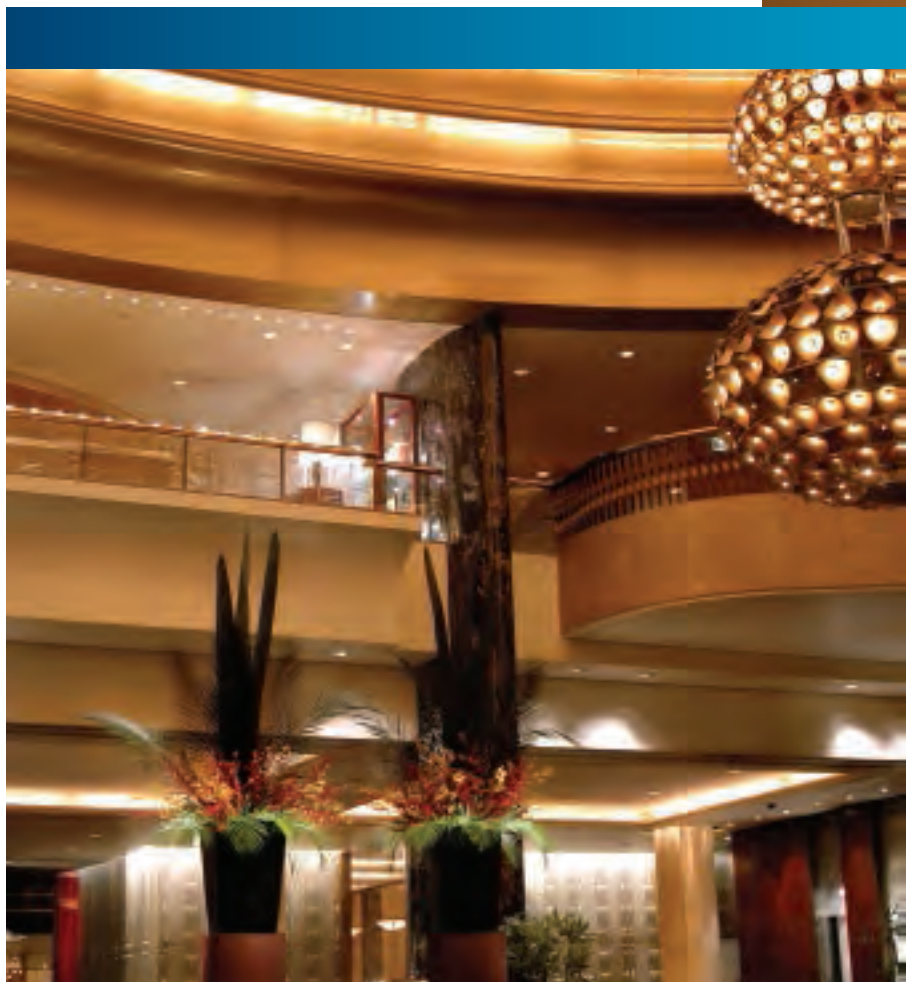
MELLOTONE

Delivers harmonious illumination to create a warm and cosy environment

The MEGAMAN® Mellotone series is designed to deliver warm and harmonious illumination that creates the mood and sets the ambience. When these lamps are used in a room with wooden wall panels or furniture, a comfortable and inviting environment is easily achieved. The MEGAMAN® Mellotone series is popular for bakery lighting and presents a cosy shopping environment and vibrant pastries and breads.

Product Features

- Delivers cosy and harmonious lighting: 2400K colour temperature
- Excellent colour rendering
- High colour temperature consistency
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- Different lamp types are available to cater for various applications
- Best for home and commercial applications, such as family rooms, bedrooms, hotels, bakeries, restaurants, spas, antique stores and furniture stores
- Operating temperature: -30°C to +40°C



SPECIAL LAMPS

MELLOTONE



220-240V | Line Voltage

Lamp Type	Equivalent Incandescent Lamp Power (W)	Product Code		Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Energy Label	Product Photo
Economy Series													
Classic P45	25	LG2603.5-E14-2400K-230V	NEW	3.5	210	80	15000	45	84	32	No	A+	1
Smart Series													
Candle	25	LC0703CS-E14-2400K-230V	NEW	3	210	80	25000	35	117	33	No	A+	2
Candle	35	LC0805dCS-E14-2400K-230V	NEW	5	320	80	25000	35	100	57	100-10%*	A+	3
Classic A55	40	LG2207d-E27-2400K-230V	NEW	7	380	80	25000	55	104	71	100-10%*	A	4

* Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.
Preliminary data

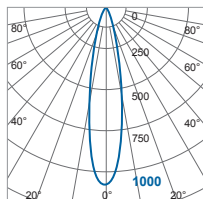
MELLOTONE



AC/DC12V | Driven by Halogen Transformer

Lamp Type	Product Code	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Professional Series											
MR16	ER1006-35H24D-GU5.3-2400K-12V	6	1000	24	200	82	25000	50	51	60	A
MR16	ER1006-35H36D-GU5.3-2400K-12V	6	550	36	200	82	25000	50	51	60	A

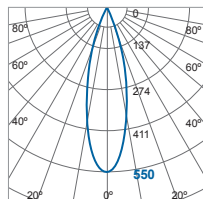
ER1006-35H24D



m	Lux	Ø cm
0.5	4000	21
1	1000	43
1.5	444	64
2	250	85

Beam angle = 24°

ER1006-35H36D



m	Lux	Ø cm
0.5	2200	32
1	550	65
1.5	244	97
2	138	130

Beam angle = 36°



SPECIAL LAMPS

CROWN SILVER

Flawless mirror lighting with an aesthetic touch

With a unique silver-plated design and clear light bulb finishing, the LED Crown Silver offers dramatic lighting with an aesthetic touch, making it the perfect solution for decorative applications.

The MEGAMAN® LED Crown Silver delivers non-glare lighting just like an incandescent lamp with silver coating, while greatly reducing electricity and maintenance costs. When these lamps are fitted around a mirror frame or as decorative lighting, the light beam is well controlled and dramatic effects can be easily achieved.

Product Features

- Unique silver-plated design in A60 lamp shape with a silvered crown top and clear light bulb finishing
- Brass-plated design; "gold-looking" coating is available for the A60 shaped lamp
- Best for mirror lighting and decorative lighting
- Capable for linear dimming from 100% to 10%#
- High colour rendering of up to Ra85
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at up to 50,000 hours
- High colour temperature consistency
- Generates much less heat than an incandescent bulb
- Operating temperature: -30°C to +40°C



* Please visit www.megaman.cc/user-guide for a list of compatible dimmers.

SPECIAL LAMPS

CROWN SILVER



220-240V | Line Voltage

Lamp Type	Product Code	Wattage (W)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Dimmable	Product Photo
Smart Series									
Classic P45	LS0303.5d-E14-2800K-230V*	3.5	80	25000	45	84	35	100-10%	1
Classic P45	LS0303.5d-E14-4000K-230V*	3.5	80	25000	45	84	35	100-10%	1
Classic A55	LS0405d-E27-2800K-230V*	5	80	25000	55	104	78	100-10%	2
Classic A55	LS0405d-E27-4000K-230V*	5	80	25000	55	104	78	100-10%	2
Classic A60	LS0107d-E27-2800K-230V	7	82	30000	60	106	131	100-10%	3
Classic A60	LS0107d-E27-4000K-230V	7	85	30000	60	106	131	100-10%	3
Classic A60	LS0107d-Brass-E27-2800K-230V	7	82	30000	60	106	131	100-10%	4
Classic A60	LS0107d-Brass-E27-4000K-230V	7	85	30000	60	106	131	100-10%	4

Capable of linear dimming from 100% to 10% when working with most conventional dimmers for incandescent lamps or halogens; please refer to the compatible dimmer list at www.megaman.cc/user-guide for further details.

* Preliminary data

SPECIAL LAMPS

SENSOR LIGHT

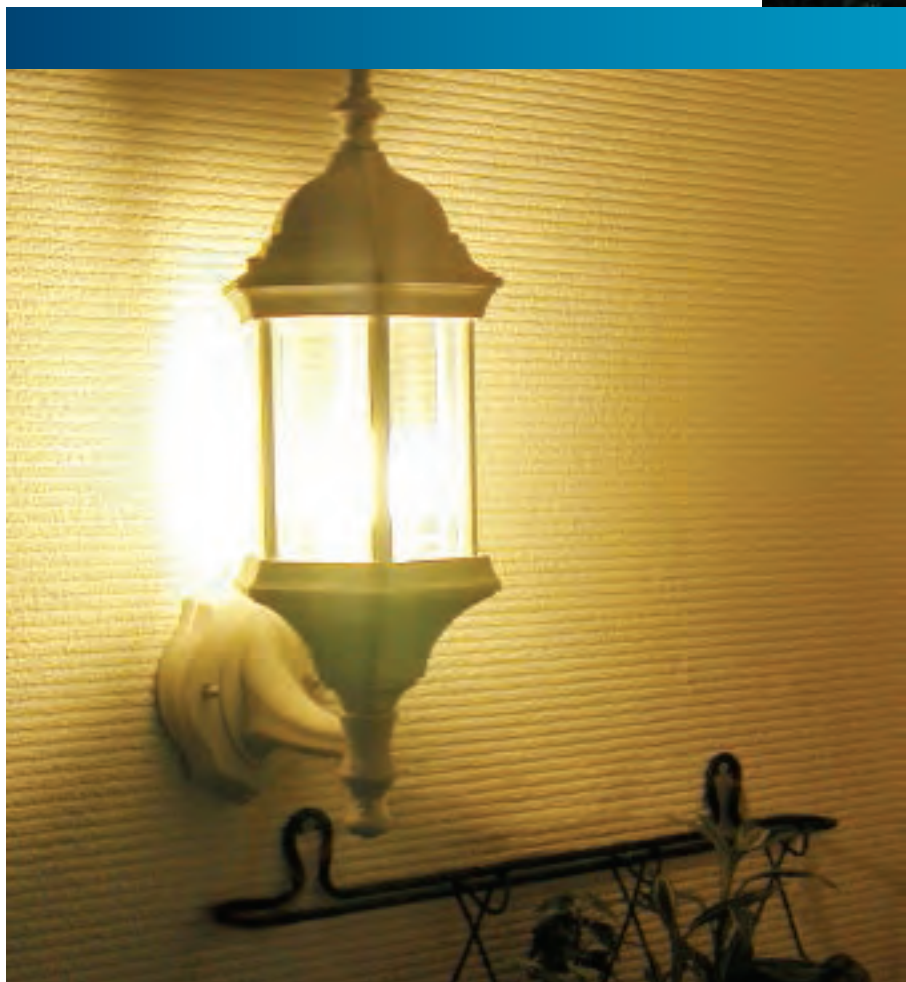


Automatically lights up in darkness and turns itself off when the light is ample

Equipped with an ingenious light sensor, the MEGAMAN® LED Sensor Light automatically lights up in darkness and turns itself off when the light is ample. It reduces electricity costs and investment on costly security lights. With its glamorous and sleek classic shape in a compact design, it delivers desirable lighting performance, making it ideal for general outdoor lamp fittings.

Product Features

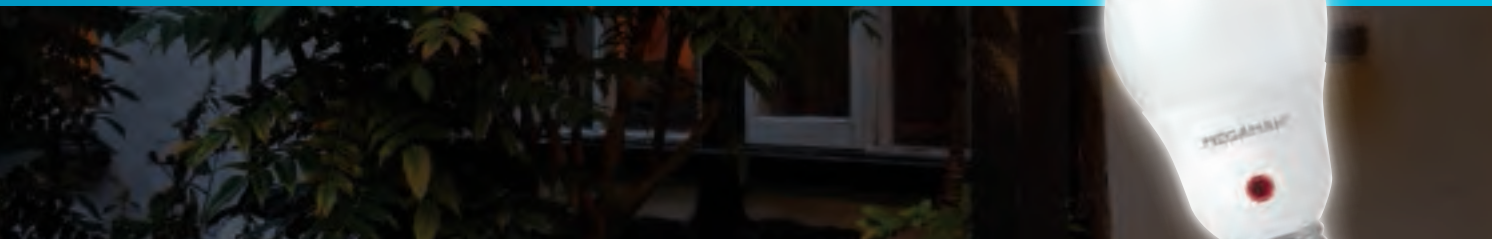
- Equipped with an ingenious light sensor
- Turns ON automatically in a dark environment; turns OFF automatically in a bright environment
- High colour rendering of up to Ra80
- High luminous maintenance: rated lumen maintenance life of 70 (L70) at 50,000 hours
- Significant energy savings and low maintenance cost
- Operating temperature: -30°C to +40°C





SPECIAL LAMPS

SENSOR LIGHT



220-240V | Line Voltage

Product Code	Wattage (W)	Luminous Flux (lm)	CRI	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Energy Label
Smart Series								
LG2108r-E27-2800K-230V	8	600	80	25000	60	115	66	A+
LG2108r-E27-4000K-230V	8	600	80	25000	60	115	66	A+



SPECIAL LAMPS

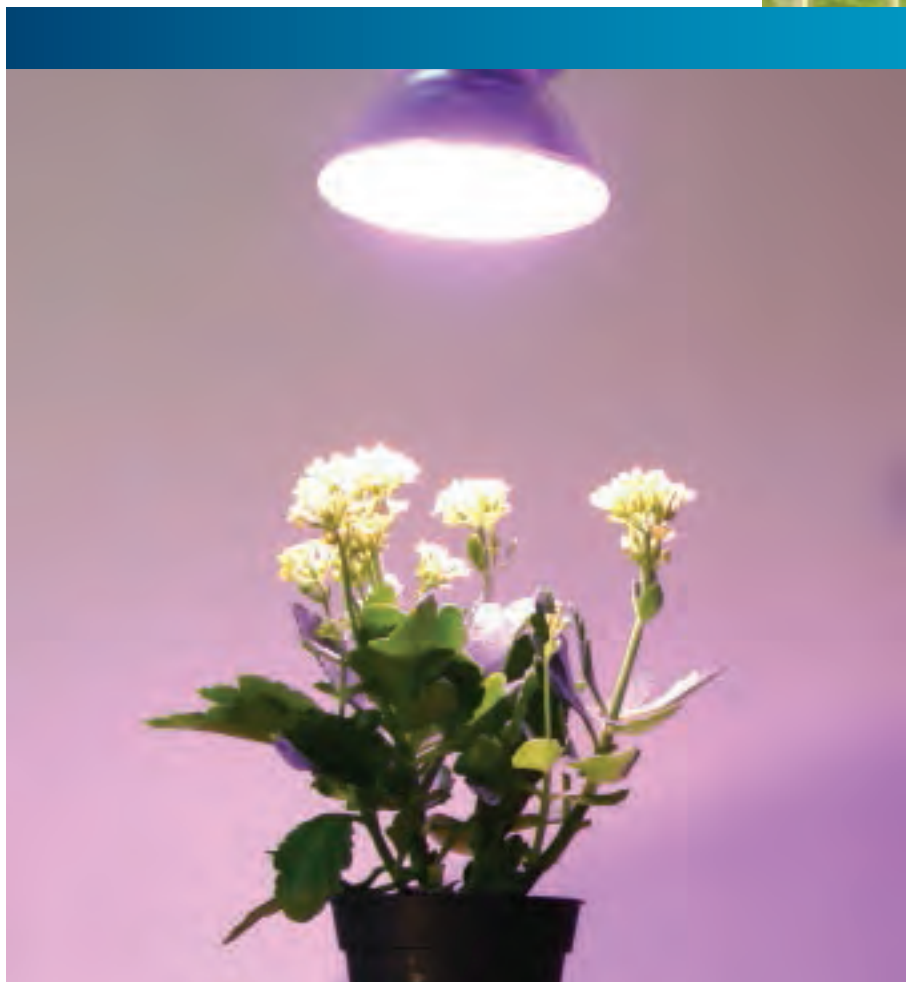
PLANT LAMP

Grow better plants with MEGAMAN® LED Plant Lamp series

Artificial lighting is commonly used in horticulture when natural sunlight is not sufficient for proper plant growth. MEGAMAN® LED Plant Lamp series is an eco-friendly solution for horticulture lighting to increase plant yield. It is highly energy efficient, helping growers to lower electricity consumption, particularly during cold seasons. Its main features include:

Product Features

- Availability of different lamp types for various applications – LED PAR38 reflector and LED Classic A60
- the LED Plant Lamp with A60 lamp shape offers an initial 1.8 μ mol/s, and additional photon flux can be delivered if the LED plant lamp is installed in a fixture with a reflector
- the LED Plant Lamp with PAR38 shape offers an initial 5 μ mol/s
- Service life of up to 25,000 hours, which reduces re-lamping costs
- Better control of plant growth as artificial LED light is used and the results are expected
- Providing the optimal light intensity for plants at each growth stage
- Totally free from mercury, UVA or UVB
- Energy saving, and hence saves costs and helps protect the environment





SPECIAL LAMPS

PLANT LAMP



1

NEW



IP55

NEW

2

220-240V | Line Voltage

Lamp Type	Product Code		Wattage (W)	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Photon Flux (umol/s)	Product Photo
Smart Series									
Classic A60	LG2506.5PT-E27-230V	NEW	6.5	25000	60	115	85	1.8*	1
PAR38	LR3208.5PT-E27-230V^	IP55 NEW	8.5	25000	121	132	196	5	2

^ IP55 means the product is a water-resistant outdoor version designed to maintain the IP rating of the light fitting used (up to a maximum of IP55).

* Additional photon flux can be delivered if the LED plant lamp is installed in a fixture with a reflector
Preliminary data

SPECIAL LAMPS

COLOUR BULB

Perfect replacement for incandescent colour bulbs with significant energy savings

With four colour options (blue, green, orange and red) available, the MEGAMAN® LED Colour Bulb features delightful colours to suit different occasions. These lamps have low power consumption of one watt, which provides significant energy savings, greatly reducing your maintenance costs and electricity bill.

Product Features

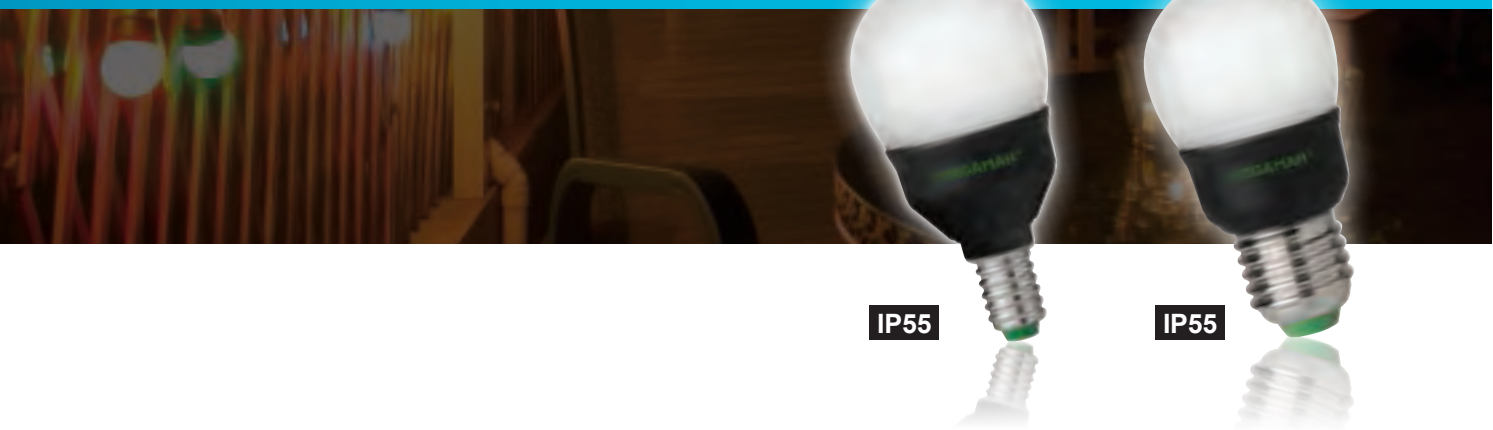
- Water-resistant outdoor version, designed to maintain the IP rating of the light fitting used (up to a maximum of IP55)
- Four colour options available for various mix and match combinations
- Long rated life of up to 25,000 hours – 25 times longer than incandescent bulbs
- Protective sleeve of silicone design, protecting you from shattered glass and other components if the bulb is broken
- High colour rendering of Ra80
- Significant energy savings and low maintenance costs
- Wide range of operating temperature (-30°C to +40°C)
- Generates less heat than incandescent bulbs





SPECIAL LAMPS

COLOUR BULB



220-240V | Line Voltage

Product Code		Wattage (W)	Colour	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Product Photo
Smart Series								
LG1801BU-E14-230V	IP55	1	Blue	25000	45	92	31	1
LG1801BU-E27-230V	IP55	1	Blue	25000	45	87	31	1
LG1801GN-E14-230V	IP55	1	Green	25000	45	92	31	2
LG1801GN-E27-230V	IP55	1	Green	25000	45	87	31	2
LG1801OR-E14-230V	IP55	1	Orange	25000	45	92	31	3
LG1801OR-E27-230V	IP55	1	Orange	25000	45	87	31	3
LG1801RD-E14-230V	IP55	1	Red	25000	45	92	31	4
LG1801RD-E27-230V	IP55	1	Red	25000	45	87	31	4



1



2



3



4

IP55 means the product is a water-resistant outdoor version designed to maintain the IP rating of the light fitting used (up to a maximum of IP55).

SPECIAL LAMPS

NIGHT LIGHT

Subtle security light for your home

Designed to give light for a sense of security or a solution against a fear of the dark, the MEGAMAN® LED Night Light series offers a sleek appearance and low heat design that illuminates and outlines your staircase, corridors and bedrooms, and is perfect for children's rooms.

Product Features

- Eco-friendly solution to deliver light
- Long rated life of 20,000 hours
- Various light colours are available to cater for different applications
- Its low heat design makes it much safer than incandescent bulbs
- Generates less heat than incandescent bulbs
- Operating temperature: -30°C to +40°C



SPECIAL LAMPS

NIGHT LIGHT



1



2



3

220-240V | Line Voltage

Product Code	Wattage (W)	Plug Type	Lamp Base	Rated Life (hrs)	Diameter (mm)	Length (mm)	Weight (g)	Colour Available	Product Photo
Smart Series									
NL010.2-EU Plug-2700K-230V	0.2	EU	N/A	20000	65	76	28	2700K, BU, FL, GN, RD and WH	1
NL050.2-2-AU Plug-2700K-230V	0.2	AU	N/A	20000	41	57	27	2700K, BU, FL, GN, RD and WH	2
NL050.2-2-CN Plug-2700K-230V	0.2	CN	N/A	20000	41	56	27	2700K, BU, FL, GN, RD and WH	2
NL050.2-2-EU Plug-2700K-230V	0.2	EU	N/A	20000	41	66	25	2700K, BU, FL, GN, RD and WH	2
NL050.2-2-UK Plug-2700K-230V	0.2	UK	N/A	20000	56	64	40	2700K, BU, FL, GN, RD and WH	2
NL030.6-GU10-2700K-230V	0.6	N/A	GU10	20000	65	55	30	2700K, BU, FL, GN, RD and WH	3

If other light colour is selected, the product code should be changed accordingly.

For example, if a flame light is selected, the product code for NL010.2 with an EU plug in 220-240V is NL010.2-EU Plug-FL-230V.

2700K = Warm White
 BU = Blue
 FL = Flame
 GN = Green
 RD = Red
 WH = White



LED CONVERTERS & TRANSFORMER

- LED CONSTANT CURRENT CONVERTER

- LED CONSTANT VOLTAGE CONVERTER

- PHASE CUT DIMMABLE ELECTRONIC TRANSFORMER

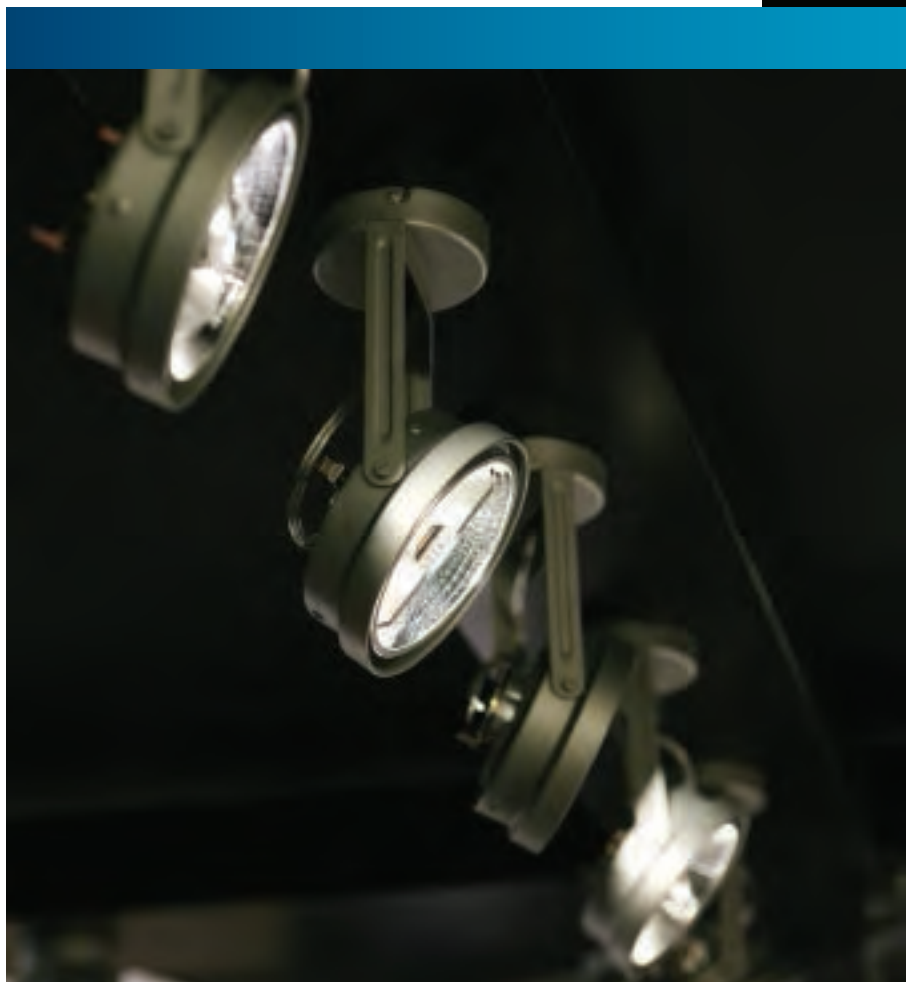
LED CONSTANT CURRENT CONVERTER

A tailor-made solution for MEGAMAN® reflectors for better current control

A small change in voltage in the LED power supply can cause a large change in current and may affect the operation of LEDs. To ensure the stability of LED lamps, MEGAMAN® uses constant current converters for its LED lamps. The MEGAMAN® LED constant current converter series is designed to optimise the performance of its LED reflectors and has the following features:

Product Features

- Long service life of 50,000 hours
- Linear dimming from 100% to 1% with any DC1-10V dimmer
- Flicker-free operation with stable light output even with fluctuation of mains supply
- Automatic restart capability when short-circuit or overload is absent
- Compliant with international standards with respect to safety and electromagnetic interference
- Operating temperature range from -30°C to +40°C
- High power factor of >0.9



LED CONVERTERS & TRANSFORMER

LED CONSTANT CURRENT CONVERTER



LD0110x1v-C460
LD0310x1v-C500
LD0115x1v-C380



LD0217x1v-C500



LD0424x1v-C700

Product Code	Mains Input Voltage (V)	Input Voltage Range (V)	Output Voltage (V)	Lamp Wattage (W)	Output Current (mA)	Rated Life (hrs)	Power Factor	Max. System Wattage (W)	Length (mm)	Width (mm)	Height (mm)	Weight (g)	Lamps Supported
LD0110x1v-C460	120-240	120-240	DC 20V	10	460	50000	>0.9	13	147	50	32	129	a & b
LD0310x1v-C500	120-240	120-240	DC 20V	10	500	50000	>0.9	13	147	50	32	133	c
LD0115x1v-C380	120-240	100-240	DC 40V	15	380	50000	>0.9	20	147	50	32	133	d
LD0217x1v-C500	220-240	180-260	DC 34V	17	500	50000	>0.9	20	116	55	25	109	e
LD0424x1v-C700	220-240	180-260	DC 36V	24	700	50000	>0.9	28	123	79	35	244	f

Ambient temperature range (Ta): -30°C to +40°C

Maximum casing temperature (Tc): 85°C

Push-in terminals: 0.75mm² to 1.5mm²

Wire preparation: 8mm

Fixing bracket for screws: M4

Luminaires of protection class: Class II

With open circuit, short circuit and over loaded protections

a		ER0510-50H24D ER0510-50H36D
b		ER1810-50H12D
c		ER0110-50H24D ER0210-50H08D ER0310-50H45D
d		ER0815-20M25D
e		MH0219
f		MH0130 / MH0130R9

LED CONSTANT VOLTAGE CONVERTER

MEGAMAN® LED constant voltage converter ensures LED stability

Apart from working with halogen transformers, LED reflectors in AC/DC 12V can work with a constant voltage converter to ensure stable operation of the LEDs. The MEGAMAN® LED constant voltage converter is designed to optimise the performance of its LED reflectors. Its advanced features include:

Product Features

- Tailor-made for MEGAMAN® reflectors that operate at 12V
- Compact size
- Long service life of 50,000 hours
- Flicker-free operation with stable light output even with fluctuation of mains supply
- Automatic restart capability when short-circuit or overload is absent
- Compliant with international standards with respect to safety and electromagnetic interference
- Operating temperature range from -10°C to +40°C



LED CONVERTERS & TRANSFORMER

LED CONSTANT VOLTAGE CONVERTER



LD0106-K12

Product Code	Mains Input Voltage (V)	Input Voltage Range (V)	Output Voltage (V)	Lamp Wattage (W)	Output Current (mA)	Rated Life (hrs)	Power Factor	Max. System Wattage (W)	Length (mm)	Width (mm)	Height (mm)	Weight (g)	Lamps Supported
LD0106-K12	220-240	180-260	DC 12V	6	500	50000	0.4	8	100	45	25	63	All MEGAMAN® MR11 and MR16 lamps with a maximum wattage of 6W

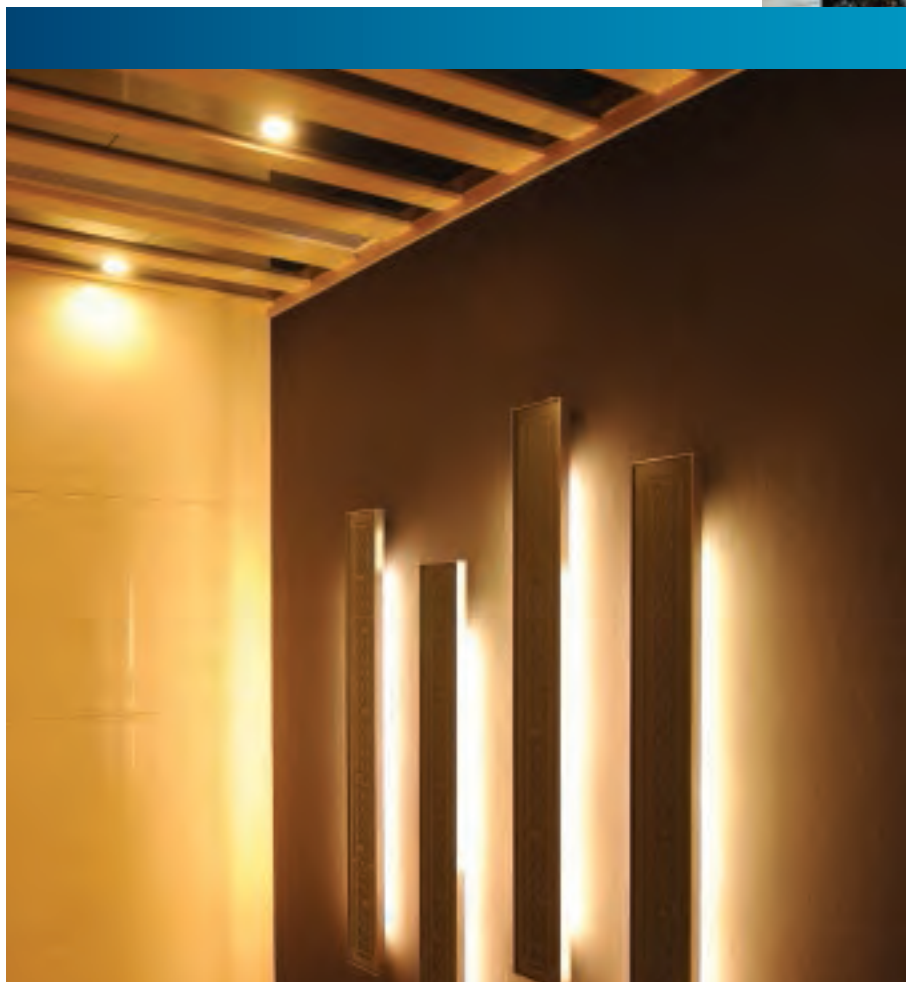
Ambient temperature range (Ta): -10°C to +40°C
 Maximum casing temperature (Tc): 85°C
 Push-in terminals: 0.75mm² to 1.5mm²
 Wire preparation: 8mm
 Fixing bracket for screws: M4
 Luminaires of protection class: Class II
 With open circuit , short circuit and over loaded protections

PHASE CUT DIMMABLE ELECTRONIC TRANSFORMER

State-of-the-art dimming with the MEGAMAN® phase cut dimmable electronic transformer

Phase cut dimming is a technology used to alter the brightness of mains operated lights. This 16W phase cut dimmable electronic transformer is custom-made for all MEGAMAN® AC/DC12V LED reflectors. Its ultra-compact profile facilitates installation into almost any luminaire of your choice, offering increased flexibility in retrofitting. The product's cutting-edge features include:

- SELV (Safely Extra Low Voltage) compliant
- Luminaire protection class: Class II
- Linear dimming is available when working with phase-cutting dimmers generally used for incandescent or halogen lamps
- Flicker-free operation with stable light output even with fluctuation of mains supply
- Long service life of 50,000 hours
- Meets international standards for safety and electromagnetic interference
- Gives lighting designers flexibility and scope for greater creativity





LED CONVERTERS & TRANSFORMER

PHASE CUT DIMMABLE ELECTRONIC TRANSFORMER



LD0216-K12

Phase Cut Dimmable Electronic Transformer

Product Code	Mains Input Voltage (V)	Input Voltage Range (V)	Output Voltage (V)	Lamp Wattage (W)	Output Current (mA)	Rated Life (hrs)	Power Factor	Max. System Wattage (W)	Length (mm)	Width (mm)	Height (mm)	Weight (g)	Lamps Supported
LD0216-K12*	220-240	220~240	AC 12V	16	1380	50000	0.7	19	123	50	32	135	All MEGAMAN® MR11, MR16 and AR111 lamps with a maximum wattage of 16W

Ambient temperature range (Ta): -30°C~+40°C
 Maximum case temperature (Tc): +85°C
 Push-in terminals: 0.75mm² to 1.5mm²
 Wire preparation: 8mm
 Fixing bracket for screws: M4
 Luminaires of protection class: Class II
 With open circuit, short circuit and over loaded protections

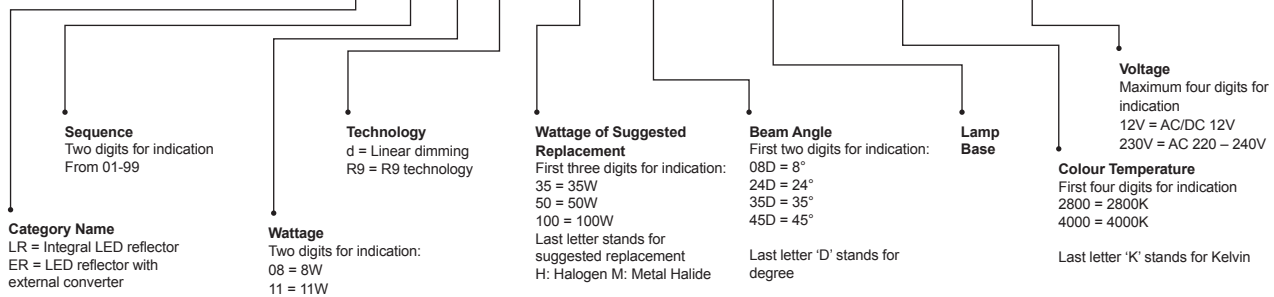
* Preliminary data

NOMENCLATURE

Decoding the MEGAMAN® Product Code

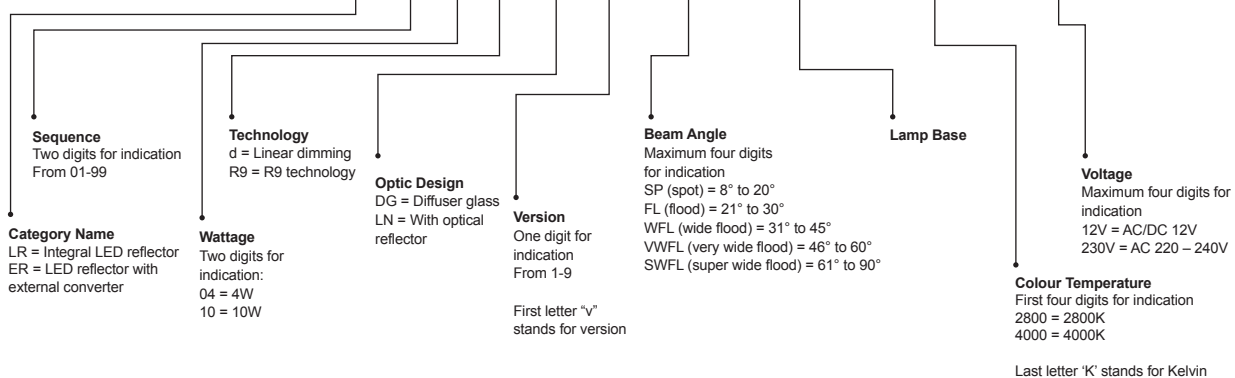
LED Reflectors in Professional Series

LR 20 08 d - 50H 35D - GU10 - 2800K - 230V



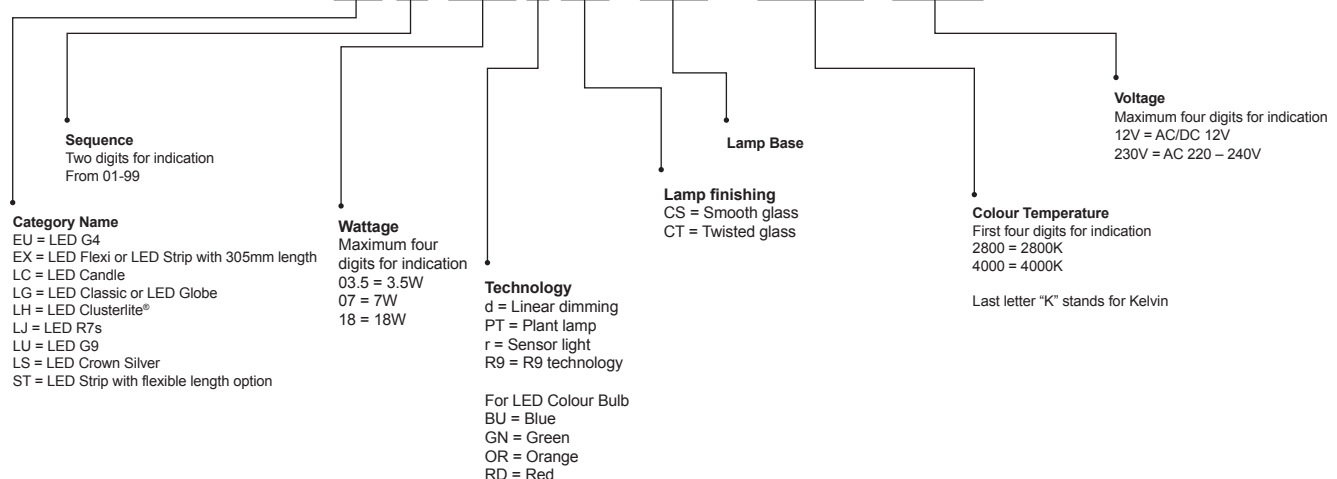
LED Reflectors in Smart and Economy Series

LR 12 04 d DG v2 WFL - GU10 - 2800K - 230V

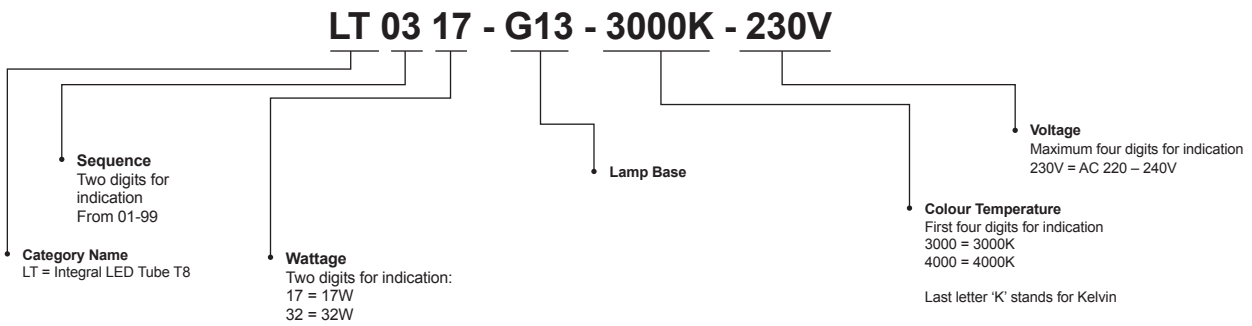


LED Non-Directional Lamps, Flexi and Strips

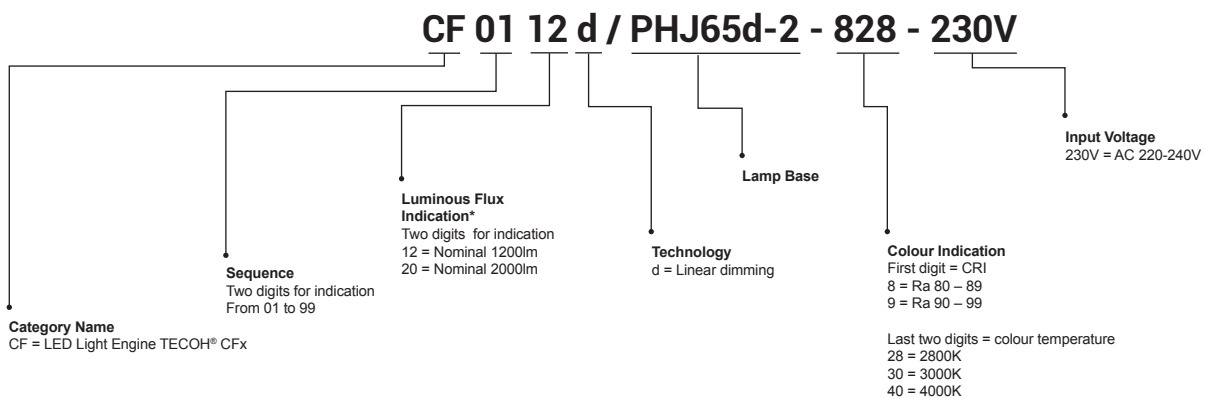
LC 08 03.5 d CS - E14 - 2800K - 230V



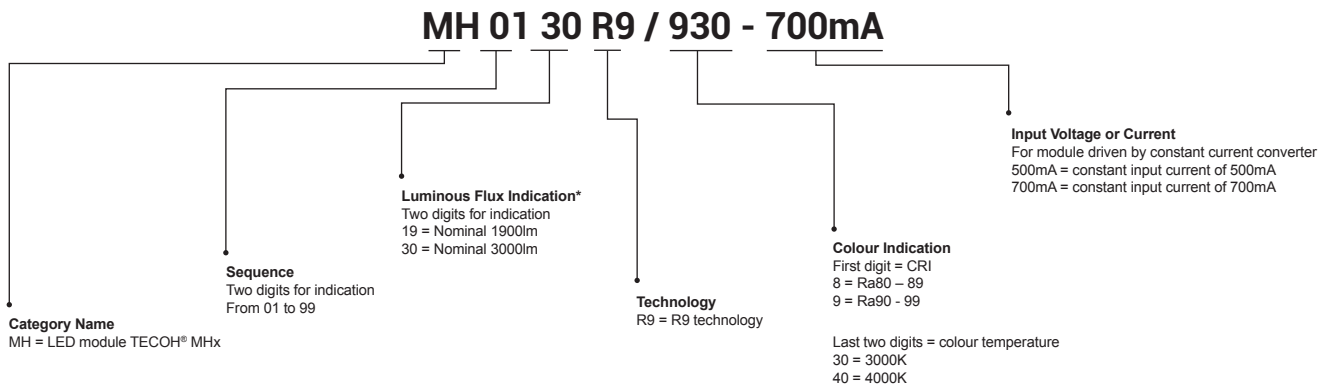
Nomenclature of LED Tubes T8



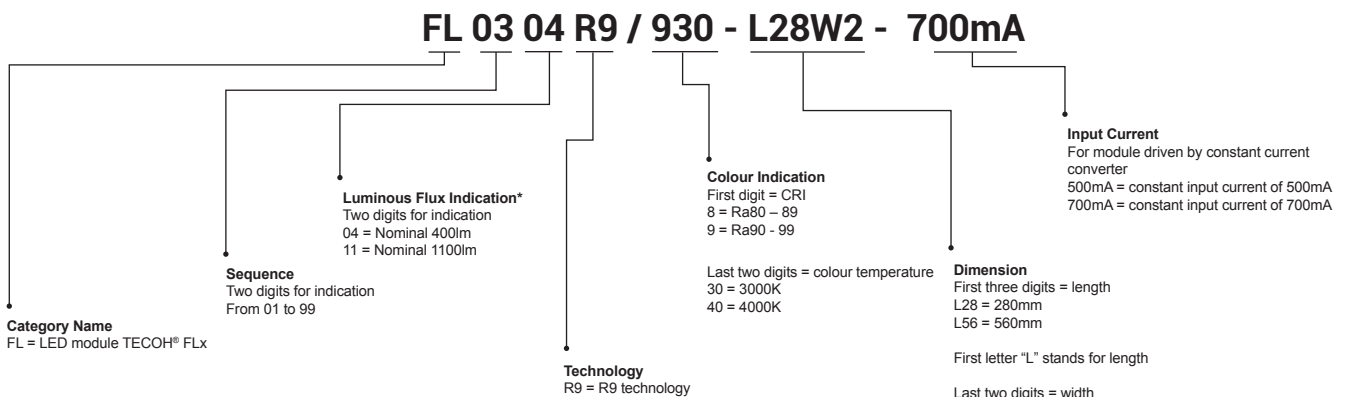
Nomenclature of LED Light Engine TECOH® CFx



LED Module TECOH® MHx



LED Module TECOH® FLx

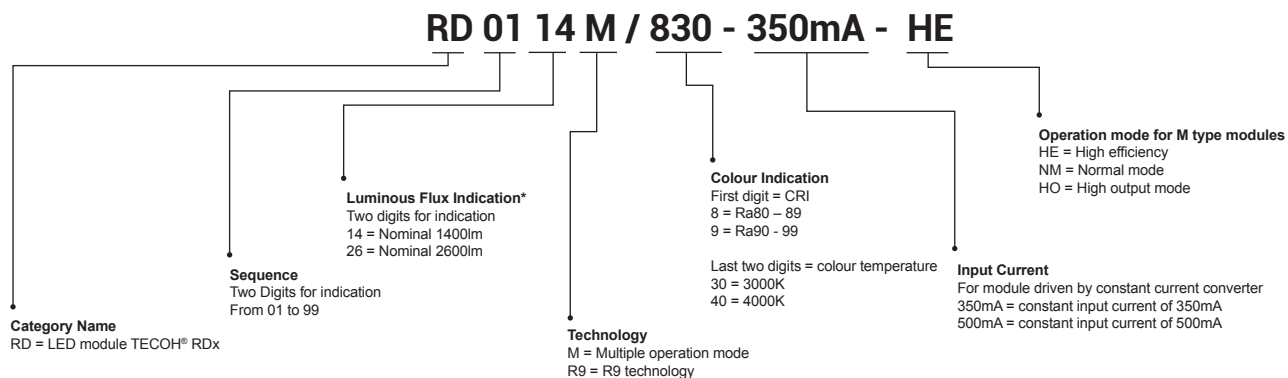


* The luminous flux indication refers to the higher nominal value within the flux category. Different colour temperature or technologies share the same flux category indication.

NOMENCLATURE

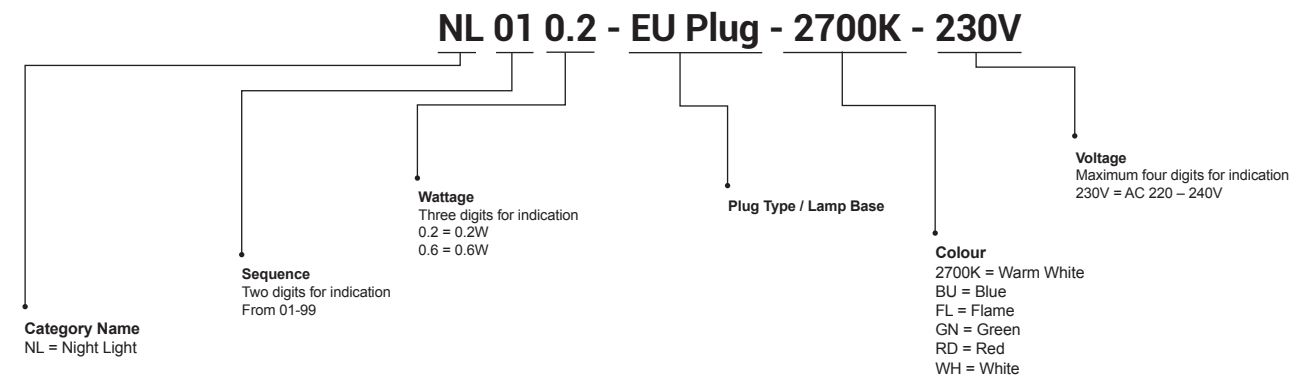
Decoding the MEGAMAN® Product Code

LED Module TECOH® RDx

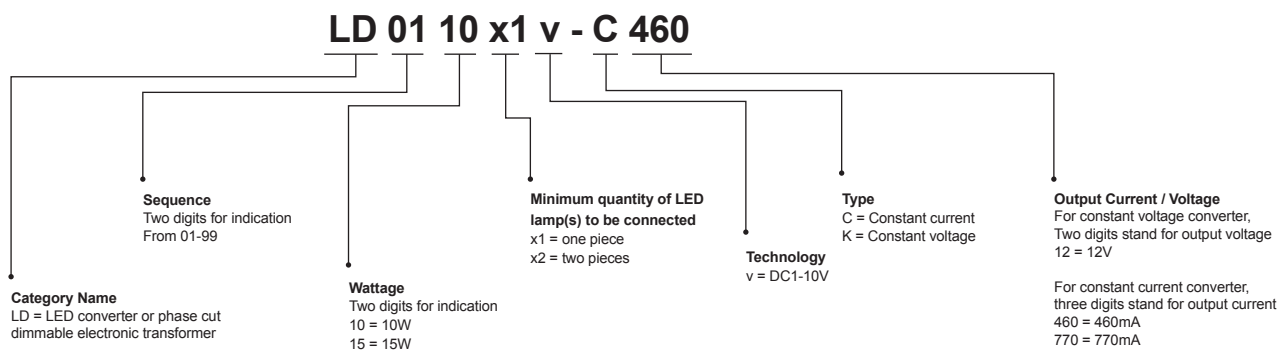


* The luminous flux indication refers to the higher nominal value within the flux category.
Different colour temperature or technologies share the same flux category indication.

Nomenclature of Night Light



Nomenclature of LED Converters and Phase Cut Dimmable Electronic Transformer



Energy Saving Tips

MEGAMAN® lamps are designed to help you conserve energy and save money, which in turn reduces CO₂ emission. Let's see how much energy and money can be saved and CO₂ can be reduced when switching to MEGAMAN®.

Total Cost of Ownership (TCO) after 25,000 hours

Example: 6W LED PAR16 vs. 35W Halogen PAR16		
Lamp Type	MEGAMAN® LED PAR16	Halogen PAR16
Wattage (W)	6	35
Average Lamp Life (hrs)	25,000	3,000
Relamping Interval	Every 25,000 hrs	Every 3,000 hrs
Estimated Wholesale Price after 25,000 hrs (US\$)	52	63 (\$7 x 9)
Maintenance Costs after 25,000 hrs	0	80 (relamping at 8 times x \$10 / lamp)
Energy Costs after 25,000 hrs (US\$)	30	175
Total Cost of Ownership (US\$)	82	318
Total Savings for 1 light point (US\$)	236	-----
Breakeven Time (hrs)	4,514 (approx. 6 months)	-----

Using one MEGAMAN® lamp in this case can help reduce up to 447kg of CO₂ emission after 25,000 hours.

Calculation Formulas:

- Energy Costs = wattage x operating hours x electricity costs / 1,000
- Total Cost of Ownership (TCO) = lamp costs + relamping costs + energy costs
- Breakeven Time* (h) is derived when the TCO of MEGAMAN® LED is equal to halogen:
LED lamp costs + wattage x h x electricity costs / 1,000 = halogen lamp costs x (h / halogen lamp life) + relamping costs x (h / halogen lamp life) + wattage x h x electricity costs / 1,000
- CO₂ Emission = wattage x operating hours x 0.616 / 1,000

Assumptions:

- Electricity Costs = US\$0.2 kWh
- kWh = 0.616kg of CO₂ emission
- Calculations for air-conditioning costs have been excluded.
- Above lamp costs are based on estimated wholesale price and are for reference only.

* Please visit www.led.megaman.cc for the calculations



MEGAMAN®
LED PAR16
6W



Lighting Design Software

DIALux

RELUX®
light simulation tools

OxyTech

MEGAMAN® offers a free and complete lighting design program to help you design various indoor and outdoor lighting schemes. The program includes an electronic catalogue with data sheets, product search function and specifications for management of luminaires and lamps. A photometric database is also included to provide comprehensive results when configuring lighting arrangements. The latest photometric data can also be found on our website.

Please visit www.megaman.cc and select the lighting design software icon to download the most up-to-date plugins and photometric information.

Marketing Tools

Establish the MEGAMAN® brand and capture market share with MEGAMAN® marketing tools.



Sales Racks

- Delicately crafted from material that is light, durable and attractive



Sales Display

- Suitable for confined display areas



Demo Kit

- To demonstrate the lighting effect of MEGAMAN® LED lamps in an innovative way



Power Bar

- To display and demonstrate MEGAMAN® lamps in a convenient way
- It also fits neatly on to the MEGAMAN® sales racks

Marketing Tools



Lamp Tester

- Innovative way to test MEGAMAN® lamps in E14, E27, B22 and GU10 lamp bases



Wobbler and Hanger

- Stick the wobbler on the sales display or the hanger on the ceiling to attract customers to the latest MEGAMAN® products available



Lamp Holder

- Fits onto various sales display applications for customers to experience MEGAMAN® lamps in a more intimate fashion

Alluring eco-friendly packaging for easy viewing of MEGAMAN® lamps



Blister

- Compact in size with a simple structure
- The transparent display makes our innovative products visible



Smart Box

- The transparent display makes our innovative products visible
- Encases our products in a notable and discernible way to make them stand out amongst other products



Gift Box

- The simple structure is best for wholesale and project use
- Flexible in terms of design, which allows its availability for most of the product series

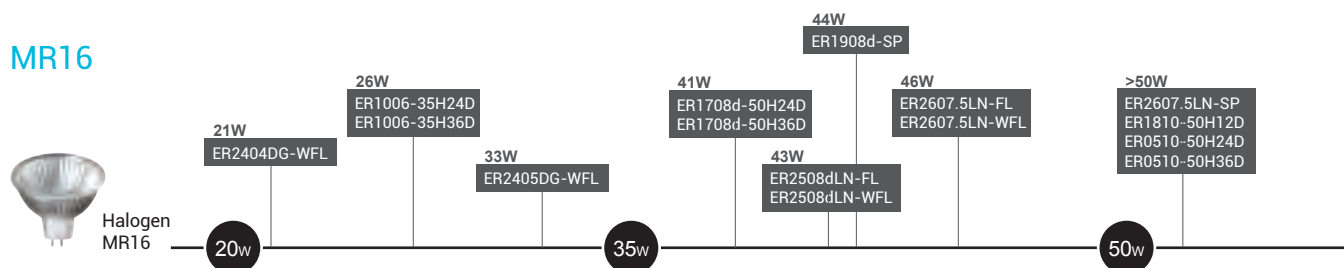
LED Lamps vs. Halogen/Incandescent/Metal Halide Lamps

Based on European Union eco-design requirements for directional lamps, light emitting diode lamps and related regulations (1194/2012), the following is the equivalence claim reference for MEGAMAN® LED reflector lamps.

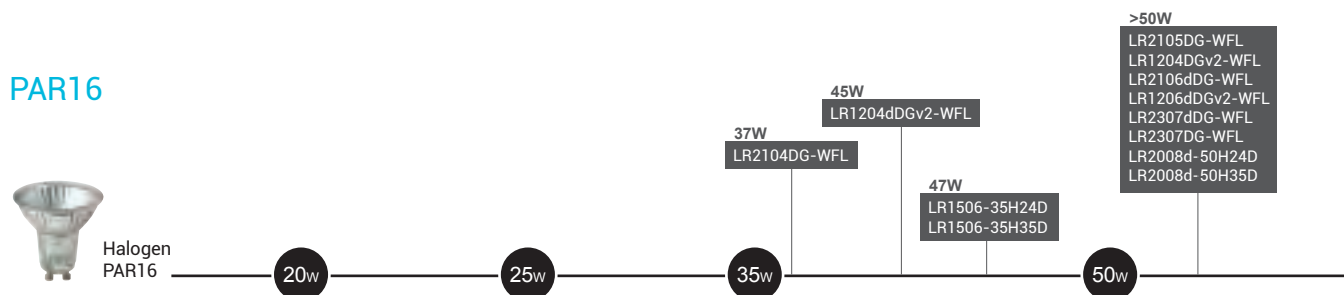
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MR16



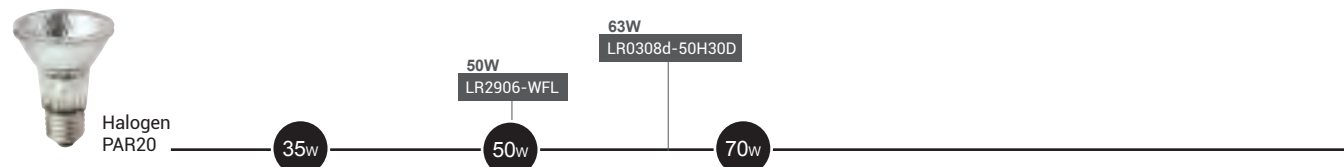
PAR16



R50



PAR20



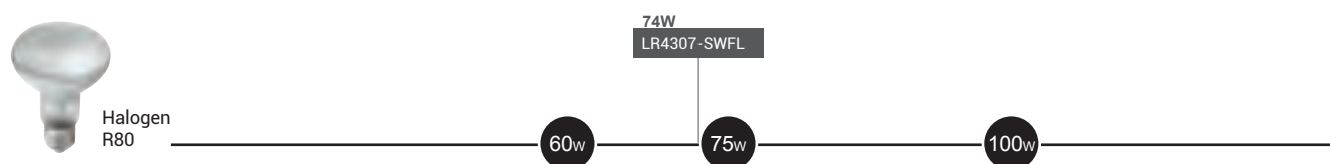
LED Lamps vs. Halogen/Incandescent/ Metal Halide Lamps

Based on European Union eco-design requirements for directional lamps, light emitting diode lamps and related regulations (1194/2012), the following is the equivalence claim reference for MEGAMAN® LED reflector lamps.

R63



R80



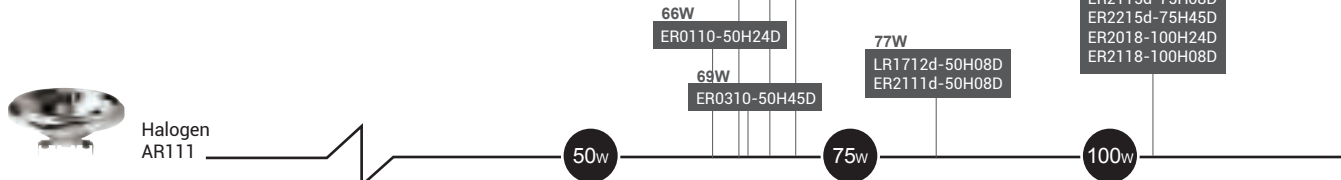
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PAR38



AR111



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31/F., AIA Kowloon Tower, Landmark East,
100 How Ming Street, Kwun Tong, Kowloon, Hong Kong
Tel: (852) 2305 1722
Fax: (852) 2758 5957
Email: info@megaman.cc

www.megaman.cc

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