

MEGAMAN®

Technical Luminaires | 2019

www.megaman.cc



ABOUT MEGAMAN®



WHO WE ARE

Artificial light enhances the way we live and work. It brings us safety, comfort and productivity. Originated in Germany, MEGAMAN® is committed to providing light in a way that is truly sustainable, energy-saving and of such a quality that it brings a positive difference into the lives of all who use the company's innovative LED lighting solutions.

MEGAMAN® is proud to be the only major brand to have exclusively manufactured low-energy lighting products throughout its entire history, offering more than 20 years of industry expertise and innovation to the lighting market.

Beginning in 1994 with the highly successful production of CFL light sources, MEGAMAN® has evolved to become a complete low-energy lighting solutions provider. MEGAMAN® has built a reputation for producing high-performance LED light sources that offer a true replacement for traditional metal halide and halogen – combining quality lighting performance with substantial energy savings.

MEGAMAN® is now applying its market-leading experience to an even wider range of lighting solutions including revolutionary Smart Lighting control, a full range of components and a suite of low-energy fixtures.

MEGAMAN® is now applying its market-leading experience to an even wider range of product offerings including revolutionary Smart Lighting control, an extensive range LED Components and a suite of energy-efficient luminaires and lamps.

- *INGENIUM®* ZB Smart Lighting Solution provides further energy saving potential for users and allows them have full control of smart devices via the mobile app from anywhere in the world
- An extensive range of Luminaires and Lamps are developed for both indoor and outdoor applications across diverse industries
- *TECOH®* high performance LED Components are designed in different shapes, sizes and lumen packages to meet customer specifications
- MEGAMAN® lighting products are widely distributed throughout the world including Europe, Asia Pacific, Middle East, North America and Latin America
- Our advanced Research and Development facilities will ensure a continuous supply of innovative and sustainable lighting products in the market

MEGAMAN® continues to play a leading role in combating climate change and carbon emissions by pursuing continuous innovation in the production of low-energy lighting solutions.

MEGAMAN® MILESTONES



2018

Launched Dual Beam Technology (DBT) which empowers to have two beam angles in one single lamp/luminaire

2016

Launched U-DIM™ technology offers seamless dimming and is compatible with the widest range of existing dimmers

Launched Hybrid Reflector technology with excellent optics, efficacy and beam control

2015

Launched *INGENIUM*® ZB smart lighting solution which is scalable and extendable for home and commercial spaces

2014

Launched first smart lighting range, *INGENIUM*® BLU
Industry first full range of Dim to Warm LED products

2013

Integrated LED luminaires introduced

2012

Patented LED module and light engine - TECOH® MHx and TECOH® CFx
TECOH® CFx - World's first 2000lm Zhaga Book2 Certified Light Engine

2011

R9 technology introduced to LED range

2010

Launched the first MEGAMAN® LED Candle and Classic

2009

Innovative Thermal Conductive Highway™ (TCH) technology incorporated into MEGAMAN® LED reflectors

2008

Amalgam technology is employed in full CFL range

2007

DIMMERABLE® technology introduced to CFL range

2005

DorS technology introduced to CFL range
Industry first RoHS compliant CFL

2004

INGENIUM® technology is introduced to CFL lamps for long life and short preheating time

2002

Industry first CFL GU10 reflector launched.
Introduced Silicone Protection technology to CFL range

1999

Patented Cooling-Tube technology introduced to CFL range

1997

Industry first candle-shaped CFL launched

1996

Industry first classic-shaped CFL launched

1994

MEGAMAN® incorporated in Germany



ABOUT MEGAMAN®

Rigorous Quality and Management Systems

All MEGAMAN® products are designed, tested and produced in our own 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 their own assembly lines. The in-house laboratory is ISO 17025 certified by CNAS and NVLAP, and is eligible to perform on-site testing for UL, Intertek 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 and luminaires 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 and luminaires 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 luminaires and lamps are able to deliver superb performance, including low power consumption, excellent light output and low maintenance costs. They provide the highest quality lighting performance of any LED-based product on the market consuming the same power!

Entering a New Era in LED Lighting and Luminaire Solutions

Unique Features

Energy efficient replacement for traditional metal halide, CFL, halogen and incandescent luminaires

- Deliver superb lighting performance
- High luminous efficacy up to 109lm/W
- High lumen maintenance: rated lumen maintenance of 70% (L70) at up to 50,000 hours life
- High colour rendering up to Ra97
- High colour temperature consistency
- Long rated life up to 50,000 hours
- Simple installation and servicing
- High energy savings
- No UV and IR radiation

Additional Benefits

- Mercury-free
- Instant start-up
- Wide range of operating temperatures

Applications

- Hospitality
- Retail lighting
- Offices
- Residential
- Decorative
- Industrial
- Outdoor



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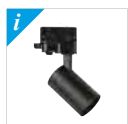


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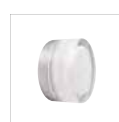
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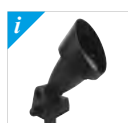
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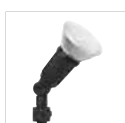


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OUTDOOR LIGHTING/

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INDOOR LIGHTING/ Panel



MEGAMAN®
BERTO



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MEGAMAN® BERTO

LED Panel

MEGAMAN® BERTO is an ultra slim integrated lighting solution that facilitates easy installation and maintenance. It delivers a high luminous efficacy up to 105lm/W – matching the lighting levels of 3 x 18W T8 and 3 x 24W HE T5 fluorescent modular fittings.

These luminaires have a long life and provide uniform light distribution for general lighting applications. The prismatic diffuser option with Unified Glare Rating (UGR) of ≤ 19 offers a high level of visual comfort and avoids fatigue to the eyes, ideal for use in offices, classrooms and corridors.

Features

- Slim integrated panel lighting design facilitates easy installation and maintenance
- Superb Efficacy up to 105lm/W
- High uniformity of Light that delivers wide light and uniform panel
- Equipped with flicker free ($\leq 3\%$) driver in both options UGR ≤ 19 and UGR ≤ 22 avoid eye strain & discomfort
- Microprismatic diffuser options with UGR ≤ 19 , less glare to provide visual comfort
- Enhance product reliability which are manufactured by fully automatic assembly line
- Screwless assembly design which can reach IP40 rating
- Driver with loop through function to further enhance ease of installation
- Excellent quality of light guide panel materials deliver excellent lumen output throughout product life.
- Easy Plug & Play connector
- Ceiling frame and surface mounting kits to cater different installation methods



Applications

- Conference rooms
- Offices
- Classrooms
- Corridors

Flicker Free Performance



Other LED panel with flicker



BERTO LED panel with flicker free and uniform lighting distribution

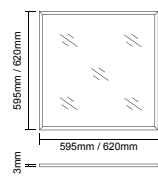
Screwless Assembly Design



Screwless design which reach IP40 rating

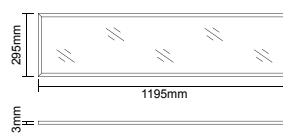
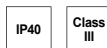
MEGAMAN® BERTO

FPL70300v1-ex+UGR19 / FPL70900v2-ex+UGR19
FPL70400v3-ex



DC 30-42V

FPL70700v1-ex+UGR19 / FPL70500v1-ex



DC 30-42V



Model No.	Nominal Voltage (mA)	Luminaire Wattage (W)	System Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life (hrs)	Materials	Suggested Non-Dim Driver (Flickering Ratio ≤3%)
FPL70300v1-ex+UGR19	950	32.4	36	3100 [3000K] 3400 [4000K/6500K]	96 [3000K] 105 [4000K/6500K]	90	W595 x L595 x H13	3000K/4000K/6500K [Ra80]	50000 (L80 B10@ Ta25°C)	Aluminium housing + PMMA LGP	LA11145
FPL70900v2-ex+UGR19	950	32.4	36	3100 [3000K] 3400 [4000K/6500K]	96 [3000K] 105 [4000K/6500K]	90	W620 x L620 x H13	3000K/4000K/6500K [Ra80]	50000 (L80 B10@ Ta25°C)	Aluminium housing + PMMA LGP	LA11145
FPL70700v1-ex+UGR19	950	32.4	36	3100 [3000K] 3400 [4000K/6500K]	96 [3000K] 105 [4000K/6500K]	90	W295 x L1195 x H13	3000K/4000K/6500K [Ra80]	50000 (L80 B10@ Ta25°C)	Aluminium housing + PMMA LGP	LA11145
FPL70400v3-ex	950	32.4	36	3100 [3000K] 3400 [4000K/6500K]	96 [3000K] 105 [4000K/6500K]	110	W595 x L595 x H13	3000K/4000K/6500K [Ra80]	50000 (L70 B50@ Ta25°C)	Aluminium housing + PS	LA11145
FPL70500v1-ex	950	32.4	36	3100 [3000K] 3400 [4000K/6500K]	96 [3000K] 105 [4000K/6500K]	110	W295 x L1195 x H13	3000K/4000K/6500K [Ra80]	50000 (L70 B50@ Ta25°C)	Aluminium housing + PS	LA11145

DALI Driver

Driver Model	Main Voltage Input (VDC)	Input Current (Constant) (mA)	Nominal Voltage Range (VAC)	System Power (Panel + Driver) (W)	Power Factor	Stripping Length (mm)	Dimension (mm)	DALI Protocol
LA11147	30-38	500-950	220-240	36	>0.9	7.5-8.5	300 x 64 x 28.4	DALI 1

Non-Dim Driver

Driver Model	Main Voltage Input (VDC)	Input Current (Constant) (mA)	Nominal Voltage Range (VAC)	System Power (Panel + Driver) (W)	Power Factor	Stripping Length (mm)	Cable thickness range (mm)	Dimension (mm)
LA11145	30-42	950	220-240	36	>0.9	7.5-8.5	1.5-2.5	235 x 425 x 324

Accessory



LA10139
Surface Mounting frame
600 x 600mm



LA10140
Surface Mounting frame
620 x 620mm



LA10141
Surface Mounting frame
1200 x 300mm



LA10120
Safety kit, including
1.0m safety cable x1
V shape hooker x1
Screw ST4*9 x2



LA10121
Suspension kit, including
1.8m Type I cable x4
V shape hooker x4
Screw ST4*9 x8



MEGAMAN® ESTELA



MEGAMAN® ESTELA



MEGAMAN® ESTELA

LED Panel

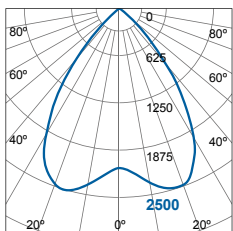


Features

- New generation of modular luminaires with distinct appearance
- Perfect replacements with similar light output for 3x24W HO T5 and 3x18W T8 modular fluorescent louvre fittings and an ideal alternative to LED panels
- Integrated switchable version facilitates easy installation and maintenance; while external driver version allows compatibility with DALI dimming drivers for linear dimming
- Designed to block direct glare with a good cut off for visual comfort, ideal where computer screens are in use
- Light weight (only 3.5kgs) for easy installation and transportation
- Simple design minimises buildup of dust for easy maintenance
- Mountable on both exposed T-bar and concealed T-bar ceilings (with additional mounting kit)
- Applications: offices, department stores and schools

Applications

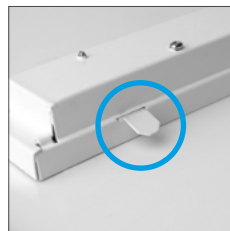
- Office
- Department stores
- Schools



Wide batwing photometric distribution for maximum uniformity



I-beam construction at the back plate for reinforcing the structural robustness and ensuring flatness of panel



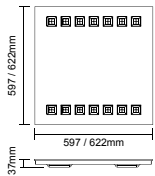
Interlocking system between the LED tray and metal plate

MEGAMAN® ESTELA

FPL62400v0 / FPL62400v0-ex /
FPL62600v0 / FPL62600v0-ex



IP20 UGR ≤19 SDCM ≤4 λ >0.9 Class I Flicker Free 53%

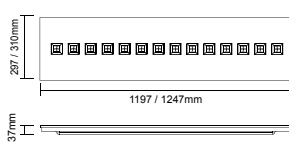


220-240V

FPL62500v0 / FPL62500v0-ex /
FPL62700v0 / FPL62700v0-ex



IP20 UGR ≤19 SDCM ≤4 λ >0.9 Class I Flicker Free 53%



White (WH26)

Integrated Switchable Version

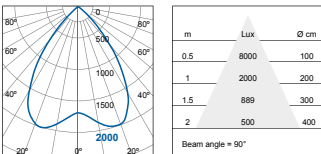
Model No.	System Wattage (W)	Luminous Flux (lm)	System Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L80 B10 at Ta25°C (hrs)	Power Factor (λ)	Materials
FPL62400v0	30	3500	117	90	L597 x W597 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing
FPL62500v0	30	3500	117	90	L1197 x W297 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing
FPL62600v0	30	3500	117	90	L622 x W622 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing
FPL62700v0	30	3500	117	90	L1247 x W310 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing

White (WH26)

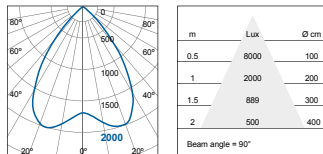
External driver version (Compatible with DALI dimming)

Model No.	Input Current (mA)	Nominal Voltage	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L80 B10 at Ta25°C (hrs)	Power Factor (λ)	Materials
FPL62400v0-ex	800	DC 30-36V	27	3500	130	90	L597 x W597 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing
FPL62500v0-ex	800	DC 30-36V	27	3500	130	90	L1197 x W297 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing
FPL62600v0-ex	800	DC 30-36V	27	3500	130	90	L622 x W622 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing
FPL62700v0-ex	800	DC 30-36V	27	3500	130	90	L1247 x W310 x H37	4000K / 6500K [>Ra80]	50000	>0.9	Metal Housing

FPL62400v0 / FPL62400v0-ex
FPL62600v0 / FPL62600v0-ex



FPL62500v0 / FPL62500v0-ex
FPL62700v0 / FPL62700v0-ex



Accessory

LA10043
Surface mounted frame
for 1197 x 297mm





INDOOR LIGHTING/ LED Linear Profile & Trunking

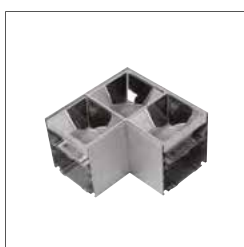


MEGAMAN®
GABIO



MEGAMAN®
TRAVIS

MEGAMAN® GABIO



MEGAMAN® GABIO



MEGAMAN® GABIO

LED linear profile

MEGAMAN® GABIO is a linear system with an unobtrusive slim profile providing continuous lines of light. It has enormous flexibility that integrates seamlessly with architectural structures and it allows combinations of direct and indirect lighting. For the indoor working environment, employers are nowadays not only asked to meet energy saving requirements, but also ensure the visual comfort of their employees. With its louvre cell design, MEGAMAN® GABIO provides direct lighting with a low glare rating of $UGR \leq 19$ for high visual comfort and is an ideal solution for individual task lighting. The system can be interconnected with unique lit X, L & T junctions which conceal the joins completely for unbroken lines of light and design consistency.

Features

- New generation of slim aluminium linear profile fixtures with understated design fits any interior
- Louvre cell design with low glare rating for high visual comfort, ideal for individual task lighting
- Wide batwing light distribution and wide beam angle deliver high uniformity
- Built-in LED driver allows concealed power supply
- Different mounting methods to cater for different applications: surface-mount, suspension and recessed (with additional accessory kit)
- Modular system for linear series connection available by different joints
- Innovative X, L, T connectors with integrated LED louvre cells for continuous line of light, making junctions invisible



X-joint



L-joint



T-joint



Linear-joint

UGR
 ≤ 19

High Cut
Off Angle

Up to 117
lm/W

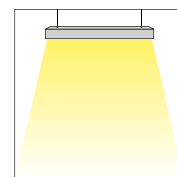
50000
hrs

λ
 > 0.9

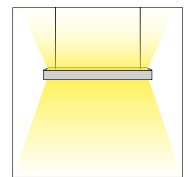
Tunable
White

Applications

- Offices
- Schools
- Department stores
- Commercial applications



Direct lighting



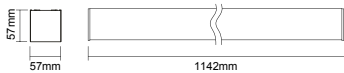
Direct-indirect lighting

MEGAMAN® GABIO

FLP70000v0 / FLP70000v1



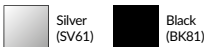
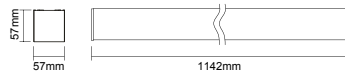
UGR ≤ 19 $\lambda > 0.9$ Class II



FLP70000v1-da



UGR ≤ 19 $\lambda > 0.9$ Class II DALI



Direct Light Distribution										
Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Material
FLP70000v0	20	1900 [3000K] 2000 [4000K / 6500K]	95 [3000K] 100 [4000K / 6500K]	90	L1142 x W57 x H57	3000K / 4000K / 6500K [≥Ra80]	50000	N/A	>0.9	Aluminium
FLP70000v1	30	3300 [3000K] 3500 [4000K / 6500K]	110 [3000K] 117 [4000K / 6500K]	90	L1142 x W57 x H57	3000K / 4000K / 6500K [≥Ra80]	50000	N/A	>0.9	Aluminium
FLP70000v1-da	30	3300 [3000K] 3500 [4000K / 6500K]	110 [3000K] 117 [4000K / 6500K]	90	L1142 x W57 x H57	3000K / 4000K / 6500K [≥Ra80]	50000	DALI	>0.9	Aluminium

Accessory

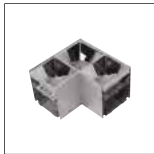
LA6004
Non-DALI version:
1.7m² x 0.75mm²
Transparent main supply wire

LA6005
Non-DALI version:
Square ceiling rose –
L80 x W80 x H38mm
(3-pole terminal)

LA6006
2 x 1.5m suspension wire



LA6007
Linear joint
L60 x W51 x H24mm



LA6008
L-joint
L93 x W54 x H56mm



LA6009
T-joint
L133 x W94 x H56mm



LA6010
X-joint
L133 x W133 x H56mm

LA6011
DALI version:
1.7m² x 0.75mm²
transparent main supply wire

LA6012
DALI version:
Square ceiling rose –
L80 x W80 x H25 mm
(4-pole terminal)

LA6013
Suspension kit
(Non-DALI version), including:
LA6004 + LA6005 + LA6006

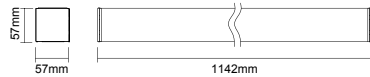
LA6014
Suspension kit
(DALI version), including:
LA6011 + LA6012 + LA6006

MEGAMAN® GABIO

FLP70100v1-ss



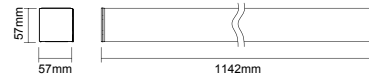
UGR ≤19	λ >0.9	Class II	ON/ OFF Switching
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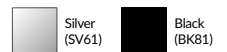
FLP70000v1-da/tw (Louvre)



UGR ≤19	λ >0.9	Class II	ON/ OFF Switching
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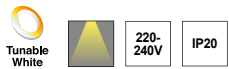


	ON / OFF x1	= Direct Lighting
	ON / OFF x2	= Indirect Lighting
	ON / OFF x3	= Direct + Indirect Lighting



Direct-Indirect Light Distribution

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Material
FLP70100v1-ss	30	3300 (900 up / 2400 down) [3000K] 3500 (1000 up / 2500 down) [4000K / 6500K]	110 [3000K] 117 [4000K / 6500K]	90	L1142 x W57 x H57	3000K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Aluminium



Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta 25°C (hrs)	SCDM	Power Factor (λ)	Material
FLP70000v1-da/tw (Louvre)	30	2000 [2800K] 3500 [6500K]	67 [2800K] 117 [6500K]	90	L1142 x W57 x H57	2800K to 6500K [≥Ra80]	50000	≤4 (Overall)	>0.9	Aluminium

Accessory

LA6004
Non-DALI version:
1.7m² x 0.75mm²
Transparent main supply wire

LA6005
Non-DALI version:
Square ceiling rose –
L80 x W80 x H38mm
(3-pole terminal)

LA6006
2 x 1.5m suspension wire



LA6007
Linear joint
L60 x W51 x H24mm



LA6008
L-joint
L93 x W54 x H56mm



LA6009
T-joint
L133 x W94 x H56mm



LA6010
X-joint
L133 x W133 x H56mm

LA6011
DALI version:
1.7m² x 0.75mm²
transparent main supply wire

LA6012
DALI version:
Square ceiling rose –
L80 x W80 x H25 mm
(4-pole terminal)

LA6013
Suspension kit
(Non-DALI version), including:
LA6004 + LA6005 + LA6006

LA6014
Suspension kit
(DALI version), including:
LA6011 + LA6012 + LA6006

LA6017
Tunable White L-joint
L93 x W54 x H56mm

LA6018
Tunable White T-joint
L133 x W94 x H56mm

LA6019
Tunable White X-joint
L133 x W133 x H56mm

MEGAMAN® TRAVIS



MEGAMAN® TRAVIS

LED Trunking

MEGAMAN® TRAVIS is a complete trunking system with unobtrusive design that enables the creation of continuous lines of light for ceiling fixing or suspended mounting on wire or chains. It is designed for fast and tool-less mechanical and electrical installation. MEGAMAN® TRAVIS provides a range of lighting distributions for easy project planning.

Features

- Luminaires trunking systems offer numerous lighting combinations to form a continuous lines of light, which perfectly illuminates all commercial area, industrial area, etc.
- A trunking solution specially designed to boost productivity and enhance shopping experience without lighting performance and energy efficiency
- Both trunking and track mounted version available for selection
- MEGAMAN® TRAVIS enables quick tool-less assembly and fast installation with:
- "Turn and Lock" feature enables quick, easy and tool-less installation, with design compatible with major brand's mounting rails
- Electrical power can be instantly connected by a quick connector
- Unobtrusive design with built-in through wire system in luminaires with the accessory options to fit different projects
- Available from narrow (15°) to wide flood beam (90°) optics to cater different ceiling height applications
- Double asymmetric (batwing) and asymmetric lighting distribution cater for special application so as to assure uniform vertical illumination of the merchandise on the two sides of shelf
- 4-step brightness levels controlled by integral DIP switch offers flexibility
- Exceptionally efficient system up to 161lm/W
- High lumen output of up to 10000lm



Applications

- Production Plant
- Warehouse
- Supermarket



Batwing Beam Optic Lighting



30° High Ceiling Lighting

MEGAMAN® TRAVIS

TRAVIS Gen1

220-240V	-20°C to +45°C	50/60Hz
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White

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)		Dimension (mm)	Rated Life at L80 B10 at Ta25°C (hrs)	Colour Temp [CRI]
FTL70000v1+2x015D	28	4050 [3000K] 4500 [4000K/ 6500K]	145 [3000K] 161 [4000K/ 6500K]	Double asymmetrical (15° x2)		1482(L)×72(W)×45(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL70000v1+060D	28	4050 [3000K] 4500 [4000K/ 6500K]	145 [3000K] 161 [4000K/ 6500K]	60°		1482(L)×72(W)×45(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL70000v1+090D	28	4050 [3000K] 4500 [4000K/ 6500K]	145 [3000K] 161 [4000K/ 6500K]	90°		1482(L)×72(W)×45(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL70000v1+015A	28	4050 [3000K] 4500 [4000K/ 6500K]	145 [3000K] 161 [4000K/ 6500K]	Right or Left asymmetrical		1482(L)×72(W)×45(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL70000v1+030D	28	4050 [3000K] 4500 [4000K/ 6500K]	145 [3000K] 161 [4000K/ 6500K]	30°		1482(L)×72(W)×45(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL71300v0+2x015D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	Double asymmetrical (15° x2)		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL71300v0+060D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	60°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL71300v0+090D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	90°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL71300v0+015A	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	Right or Left asymmetrical		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTL71300v0+030D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	30°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]

MEGAMAN® TRAVIS

TRAVIS Gen1 (Track Version)

220-240V

-20°C to +45°C

50/60Hz

White

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)		Dimension (mm)	Rated Life at L80 B10 at Ta25°C (hrs)	Colour Temp [CRI]
FTK71300v1+2×015D	28	4050 [3000K] 4500 [4000K/6500K]	145 [3000K] 161 [4000K/ 6500K]	Double asymmetrical (15° x2)		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v1+060D	28	4050 [3000K] 4500 [4000K/6500K]	145 [3000K] 161 [4000K/ 6500K]	60°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v1+090D	28	4050 [3000K] 4500 [4000K/6500K]	145 [3000K] 161 [4000K/ 6500K]	90°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v1+015A	28	4050 [3000K] 4500 [4000K/6500K]	145 [3000K] 161 [4000K/ 6500K]	Right or Left asymmetrical		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v1+030D	28	4050 [3000K] 4500 [4000K/6500K]	145 [3000K] 161 [4000K/ 6500K]	30°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v0+2×015D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	Double asymmetrical (15° x2)		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v0+060D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	60°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v0+090D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	90°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v0+015A	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	Right or Left asymmetrical		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v0+030D	44	6300 [3000K] 7000 [4000K/6500K]	143 [3000K] 159 [4000K/ 6500K]	30°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v2+2×015D	65	9000 [3000K] 10000 [4000K/6500K]	138 [3000K] 161 [4000K/ 6500K]	Double asymmetrical (15° x2)		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v2+060D	65	9000 [3000K] 10000 [4000K/6500K]	138 [3000K] 161 [4000K/ 6500K]	60°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v2+090D	65	9000 [3000K] 10000 [4000K/6500K]	138 [3000K] 161 [4000K/ 6500K]	90°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v2+015A	65	9000 [3000K] 10000 [4000K/6500K]	138 [3000K] 161 [4000K/ 6500K]	Right or Left asymmetrical		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71300v2+030D	65	9000 [3000K] 10000 [4000K/6500K]	138 [3000K] 161 [4000K/ 6500K]	30°		1482(L)×72(W)×65(H)	50000	3000K/4000K/ 6500K [Ra80]

MEGAMAN® TRAVIS




TRAVIS Gen2

220-
240V

-20°C to +45°C

50/60Hz

White

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)		Dimension (mm)	Rated Life at L80 B10 at Ta25°C (hrs)	Colour Temp [CRI]
FTK74000v0+120D	28	3600 [3000K] 4000 [4000K/ 6500K]	129 [3000K] 143 [4000K/6500K]	120		1482(L)×72(W)×54(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK74000v1+120D	50	3600 [3000K] 4000 [4000K/ 6500K]	129 [3000K] 143 [4000K/6500K]	120		1482(L)×72(W)×54(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK74000v2+120D	65	3600 [3000K] 4000 [4000K/ 6500K]	129 [3000K] 143 [4000K/6500K]	120		1482(L)×72(W)×54(H)	50000	3000K/4000K/ 6500K [Ra80]




TRAVIS Gen2 (Track Version)

220-
240V

-20°C to +45°C

50/60Hz

White

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)		Dimension (mm)	Rated Life at L80 B10 at Ta25°C (hrs)	Colour Temp [CRI]
FTK71200v0+120D	28	3600 [3000K] 4000 [4000K/ 6500K]	129 [3000K] 143 [4000K/6500K]	120		1482(L)×72(W)×54(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK74000v1+120D	50	3600 [3000K] 4000 [4000K/ 6500K]	129 [3000K] 143 [4000K/6500K]	120		1482(L)×72(W)×54(H)	50000	3000K/4000K/ 6500K [Ra80]
FTK71200v2+120D	65	3600 [3000K] 4000 [4000K/ 6500K]	129 [3000K] 143 [4000K/6500K]	120		1482(L)×72(W)×54(H)	50000	3000K/4000K/ 6500K [Ra80]

Accessory



LA10155
Mounting rail end cover



LA10156
Mounting rail connecting piece



LA10157
2pcs 1.5m suspension cable



LA10158
Fixing bracket



LA10159
Mounting rail L-type connecting piece



LA10160
Mounting rail T-type connecting piece



LA10161
Mounting rail cross connecting piece



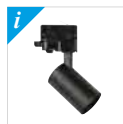
LA10162
Fixing hook for chain



LA10163
1.5m Blinding plate



INDOOR LIGHTING/ Track Lighting



MEGAMAN®
MARCO Mini
MARCO Midi
MARCO



MEGAMAN®
MODENA



MEGAMAN®
MORA



MEGAMAN®
TOBY



MEGAMAN®
MOSAIC

MEGAMAN® MARCO



MEGAMAN® MARCO

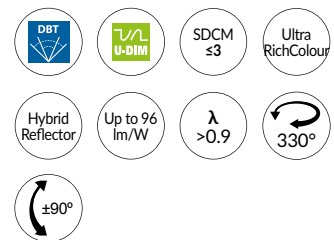


MEGAMAN® MARCO

Integrated LED tracklight

Features

- Offer the flexibility of changing the beam angle on site, beneficial to lighting designers & visual merchandisers to cater different scene setting
- Flexibility of narrow flood to wide flood within one luminaire, with easy to understand mechanism
- Enable keep less stock and reduce the storage space & management
- Compact Led tracklight with an understanding class design and concealed driver
- Marci Mini for 75W halogen/20W CDM-Rm replacement
- Marco Midi for 35W Metal CDM replacement
- Marco 35000lm & 5000lm for 50W and 70W Metal Halide Replacement
- High colour consistency with SDCM ≤ 3
- Long lifetime up to 50,000hrs at L70 B50 at Ta25°C
- Excellent colour rendering option in CRI97

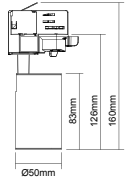


Applications

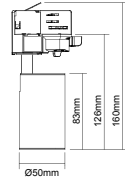
- Shop lighting
- Hotels
- Showrooms
- Restaurants
- Museums

MEGAMAN® MARCO MINI

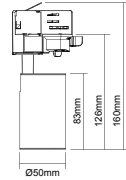
FTK70000v0+012D
FTA70000v0+012D



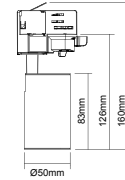
FTK70000v0-r9+012D
FTA70000v0-r9+012D



FTK70000v0-db+024D036D
FTA70000v0-db+024D036D

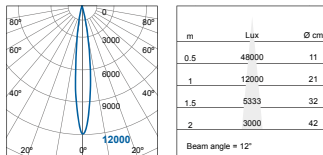


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FTA70000v0-db/ru+024D036D

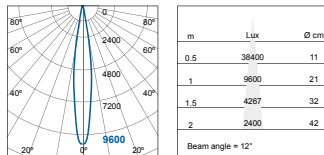


Model No.		Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FTK70000v0+012D FTA70000v0+012D	Ra90	12	900 [2800K] 950 [4000K]	75 [2800K] 79 [4000K]	12	12000	50(D) x 160(L)	2800K/4000K [≥Ra80]	25000	>0.9	Aluminium
FTK70000v0-r9+012D FTA70000v0-r9+012D	DBT	12	720 [2800K] 760 [4000K]	60 [2800K] 63 [4000K]	12	9600	50(D) x 160(L)	2800K/4000K [Ra90]	25000	>0.9	Aluminium
FTK70000v0-db+024D036D FTA70000v0-db+024D036D	DBT Ra97	12	950 [2800K] 1000 [4000K]	79 [2800K] 83 [4000K]	24 36	5500 [24°] 2650 [36°]	50(D) x 160(L)	2800K/4000K [≥Ra80]	25000	>0.9	Aluminium
FTK70000v0-db/ru+024D036D FTA70000v0-db/ru+024D036D		12	750 [2800K] 800 [4000K]	63 [2800K] 67 [4000K]	24 36	4350 [24°] 2100 [36°]	50(D) x 160(L)	2800K/4000K [Ra97]	25000	>0.9	Aluminium

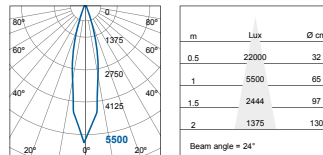
FTK70000v0+012D / FTA70000v0+012D



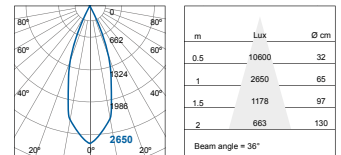
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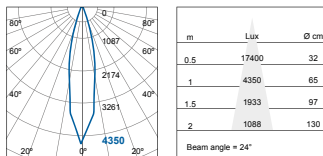
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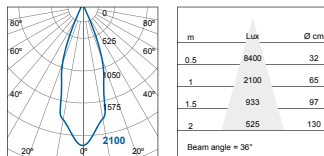
FTK70000v0-db+036D / FTA70000v0-db+036D



FTK70000v0-db/ru+024D / FTA70000v0-db/ru+024D



FTK70000v0-db/ru+036D / FTA70000v0-db/ru+036D



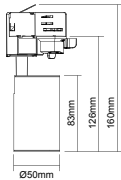
Accessory



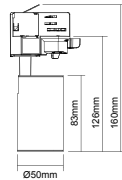
LA10087
Honeycomb louvre

MEGAMAN® MARCO MIDI

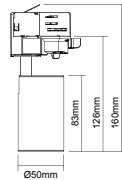
FTK70800v0+012D
FTA70800v0+012D



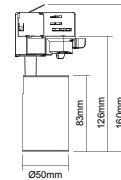
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FTA70800v0-ru+012D



FTK70800v0-db+025D045D
FTA70800v0-db+025D045D

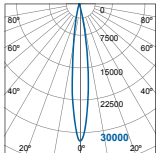


FTK70800v0-db/ru+025D045D
FTA70800v0-db/ru+025D045D



Model No.		Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FTK70800v0+012D FTA70800v0+012D	Ra97	24	2000 [3000K] 2100 [4000K]	83 [3000K] 88 [4000K]	12	30000	65(D) x 198(L)	3000K/4000K [≥Ra80]	50000	>0.9	Aluminium
FTK70800v0-ru+012D FTA70800v0-ru+012D	DBT	24	1500 [3000K] 1600 [4000K]	63 [3000K] 67 [4000K]	12	23000	65(D) x 198(L)	3000K/4000K [Ra97]	50000	>0.9	Aluminium
FTK70800v0-db+025D045D FTA70800v0-db+025D045D	DBT Ra97	24	2100 [3000K] 2200 [4000K]	88 [3000K] 92 [4000K]	25 45	11000 [25°] 4400 [45°]	65(D) x 198(L)	3000K/4000K [≥Ra80]	50000	>0.9	Aluminium
FTK70800v0-db/ru+025D045D FTA70800v0-db/ru+025D045D		24	1600 [3000K] 1700 [4000K]	67 [3000K] 71 [4000K]	25 45	8500 [25°] 3400 [45°]	65(D) x 198(L)	3000K/4000K [Ra97]	50000	>0.9	Aluminium

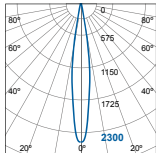
FTK70800v0+012D / FTA70800v0+012D



m	Lux	Ø cm
0.5	120000	21
1	30000	43
1.5	13333	64
2	7500	85

Beam angle = 12°

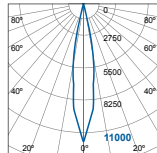
FTK70800v0-ru+012D / FTA70800v0-ru+012D



m	Lux	Ø cm
0.5	9200	21
1	2300	43
1.5	1022	64
2	575	85

Beam angle = 12°

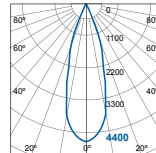
FTK70800v0-db+025D / FTA70800v0-db+025D



m	Lux	Ø cm
0.5	42800	47
1	10700	93
1.5	4756	140
2	2675	187

Beam angle = 25°

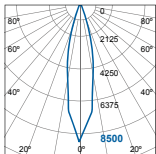
FTK70800v0-db+045D / FTA70800v0-db+045D



m	Lux	Ø cm
0.5	17200	41
1	4300	83
1.5	1911	124
2	1075	166

Beam angle = 45°

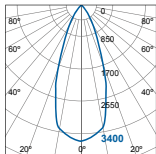
FTK70800v0-db/ru+025D / FTA70800v0-db/ru+025D



m	Lux	Ø cm
0.5	32800	47
1	8200	93
1.5	3644	140
2	2050	187

Beam angle = 25°

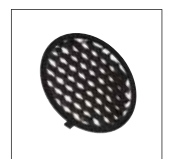
FTK70800v0-db/ru+045D / FTA70800v0-db/ru+045D



m	Lux	Ø cm
0.5	13200	41
1	3300	83
1.5	1467	124
2	825	166

Beam angle = 45°

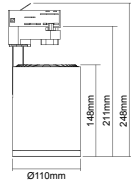
Accessory



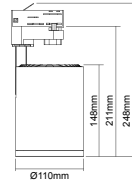
LA10098
Honeycomb louvre

MEGAMAN® MARCO 3500lm

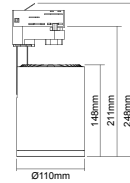
FTK70100v0+012D
FTA70100v0+012D



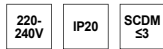
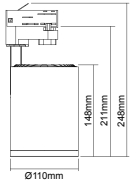
FTK70100v0-ru+012D
FTA70100v0-ru+012D



FTK70100v0-db+025D045D
FTA70100v0-db+025D045D



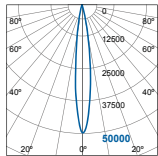
FTK70100v0-db/ru+025D045D
FTA70100v0-db/ru+025D045D



MEGAMAN® MARCO 3500lm

Model No.		Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FTK70100v0+012D FTA70100v0+012D	Ra97	37	3100 [3000K] 3300 [4000K]	84 [3000K] 88 [4000K]	12	50000	110(D) x 248(L)	3000K/4000K [≥Ra80]	50000	>0.9	Aluminium
FTK70100v0-ru+012D FTA70100v0-ru+012D	DBT	37	2400 [3000K] 2500 [4000K]	65 [3000K] 68 [4000K]	12	35000	110(D) x 248(L)	3000K/4000K [Ra97]	50000	>0.9	Aluminium
FTK70100v0-db+025D045D FTA70100v0-db+025D045D	DBT Ra97	37	3300 [3000K] 3500 [4000K]	89 [3000K] 95 [4000K]	25 45	18000 [25°] 7000 [45°]	110(D) x 248(L)	3000K/4000K [≥Ra80]	50000	>0.9	Aluminium
FTK70100v0-db/ru+025D045D FTA70100v0-db/ru+025D045D		37	2600 [3000K] 2700 [4000K]	70 [3000K] 73 [4000K]	25 45	14000 [25°] 5400 [45°]	110(D) x 248(L)	3000K/4000K [Ra97]	50000	>0.9	Aluminium

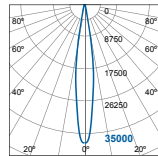
FTK70100v0+012D / FTA70100v0+012D



m	Lux	Ø cm
0.5	200000	11
1	50000	21
1.5	22222	32
2	12500	42

Beam angle = 12°

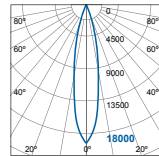
FTK70100v0-ru+012D / FTA70100v0-ru+012D



m	Lux	Ø cm
0.5	140000	11
1	35000	21
1.5	15556	32
2	8750	42

Beam angle = 12°

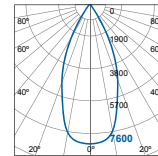
FTK70100v0-db+025D / FTA70100v0-db+025D



m	Lux	Ø cm
0.5	72000	22
1	18000	44
1.5	8000	67
2	4500	89

Beam angle = 25°

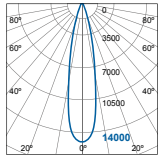
FTK70100v0-db+045D / FTA70100v0-db+045D



m	Lux	Ø cm
0.5	30400	41
1	7600	83
1.5	3378	124
2	1900	166

Beam angle = 45°

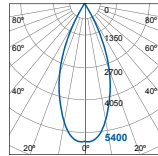
FTK70100v0-db/ru+025D / FTA70100v0-db/ru+025D



m	Lux	Ø cm
0.5	56000	22
1	14000	44
1.5	6222	67
2	3500	89

Beam angle = 25°

FTK70100v0-db/ru+045D / FTA70100v0-db/ru+045D



m	Lux	Ø cm
0.5	21600	41
1	5400	83
1.5	2400	124
2	1350	166

Beam angle = 45°

Accessory



LA10054
Spread lens



LA10055
Rectangular lens



LA10056
Honeycomb louvre



LA10057
Barn doors



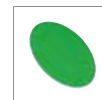
LA10058
Coloured filter (Red)



LA10059
Coloured filter (Yellow)



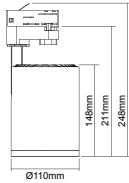
LA10060
Coloured filter (Blue)



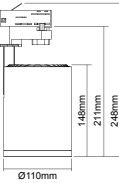
LA10061
Coloured filter (Green)

MEGAMAN® MARCO 5000lm

FTK70100v1-db+025D045D
FTA70100v1-db+025D045D



FTK70100v1-db/ru+025D045D
FTA70100v1-db/ru+025D045D



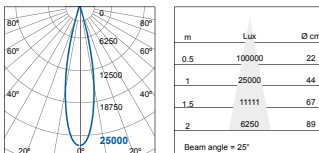
220-240V IP20 SCDM S3

White (WH26) Silver (SV28) Black (BK24)

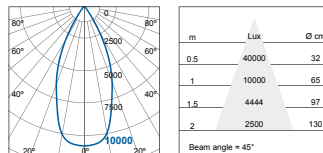
MEGAMAN® MARCO 5000lm

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FTK70100v1-db+025D045D FTA70100v1-db+025D045D	52	4800 [3000K] 5000 [4000K]	92 [3000K] 96 [4000K]	25 45	25000 [25°] 10000 [45°]	110(D) x 248(L)	3000K/4000K [≥Ra80]	50000	>0.9	Aluminium
FTK70100v1-db/ru+025D045D FTA70100v1-db/ru+025D045D	52	3700 [3000K] 3800 [4000K]	71 [3000K] 73 [4000K]	25 45	19000 [25°] 7600 [45°]	110(D) x 248(L)	3000K/4000K [Ra97]	50000	>0.9	Aluminium

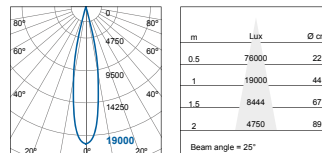
FTK70100v1-db+025D / FTA70100v1-db+025D



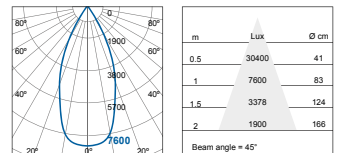
FTK70100v1-db+045D / FTA70100v1-db+045D



FTK70100v1-db/ru+025D / FTK70100v1-db/ru+025D



FTA70100v1-db/ru+45D / FTA70100v1-db/ru+45D



Accessory



LA10054
Spread lens



LA10055
Rectangular lens



LA10056
Honeycomb louvre



LA10057
Barn doors



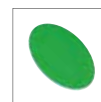
LA10058
Coloured filter (Red)



LA10059
Coloured filter (Yellow)



LA10060
Coloured filter (Blue)



LA10061
Coloured filter (Green)

MEGAMAN® MODENA



MEGAMAN® MODENA



MEGAMAN® MODENA

LED tracklight

MEGAMAN® MODENA is a range of LED track lights that offers excellent lighting performance which can be used to replace up to 70W metal halide. MEGAMAN® MODENA has an adjustable arm that can have $\pm 90^\circ$ vertical tilting angle and 330° horizontal rotation angle for multi-directional lighting. The aluminium reflector provides a clean and precise beam for accent lighting.

MEGAMAN® MODENA is designed for use with TECOH® RDx to cater for a variety of different applications. Working with TECOH® RDx, MEGAMAN® MODENA delivers excellent lighting performance for up to 70W metal halide replacement.

To further enhance retail and general lighting applications, a new technology -- Perfect White is also available which excites the Fluorescent Whitening Agents (FWA) in white items to accentuate their appearance, ideal for eye-catching merchandising displays

Features

- Different beam angle options available for various applications
- Adjustable arm for multi-directional lighting: 330° horizontal rotation and $\pm 90^\circ$ vertical tilting angle
- Aluminium reflector providing clean and precise beams
- Perfect white option available – a new technology that intensifies and brightens white items
- Perfect white generates a new colour experience not only valuable for retail lighting, but it also accentuates commercial general lighting applications
- More compact version available for 20W and 35W metal halide replacement

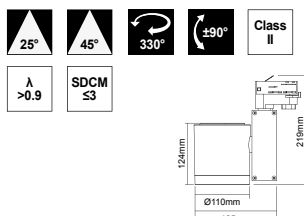


Applications

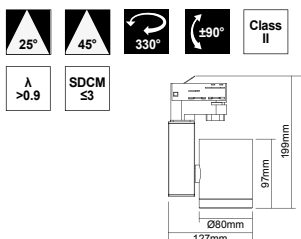
- Shop lighting
- Restaurants
- Hotels
- Museums
- Showrooms

MEGAMAN® MODENA

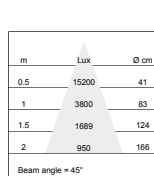
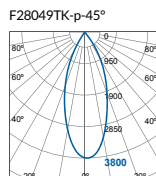
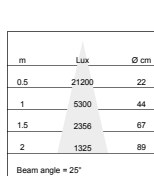
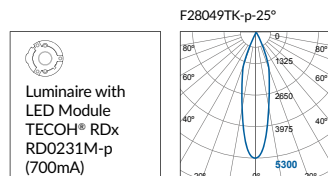
F25349TK-p



F28049TK-p



Model No.	Voltage (V)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Max. Luminous Intensity (cd) [Beam Angle]	Colour Temp. [CRI]	Rated Life (hrs)	Dimmable	Light Source	Materials
F25349TK-p*	220-240	53	3100	58	Ø110 x L165 x H219	12000 [25°] 6000 [45°]	3000K / 4000K [Ra82]	50000	Dimmable	TECOH® RDx RD0343M-p with input current 1050mA	Aluminium
F28049TK-p*	220-240	29	1650	57	Ø80 x L127 x H199	5300 [25°] 3800 [45°]	3000K / 4000K [Ra82]	50000	Dimmable	TECOH® RDx RD0231M-p with input current 700mA	Aluminium



Working with
TECOH® RDx
LED Module

Different reflectors options available



F28049TK-p:
LA3125 - 25° Reflector
LA3126 - 45° Reflector



MEGAMAN® MORA



MEGAMAN® MORA

LED Tracklight

When utilizing the latest MEGAMAN® PAR16 LED reflector lamp technology with highly efficient optics, MEGAMAN® MORA is a very low energy track light compared with halogen sources. The upgraded construction of MEGAMAN® MORA also allows compatibility with most LED PAR16 lamps on the market. MEGAMAN® MORA has adjustable 90° tilt and 330° rotation angles, providing a cost effective multidirectional lighting solution ideal for common accent lighting applications.

Features

- Compact serviceable GU10 tracklight
- Compatible to most of the market LED PAR16 Lamp
- Adjustable arm for multi-directional lighting: 330° horizontal rotation and 90° vertical tilting angle
- 3 circuit track adaptor as standard compatible with most 3 circuit systems
- Single phase track adaptor version available

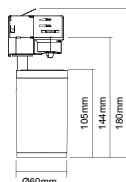


Applications

- Shops and boutiques
- Hotels
- Restaurants
- Homes

MEGAMAN® MORA

FTK70317v0 / FTA70317v0 /
FTS70317v0



Model No.	Max. Wattage (W)	Dimension (mm)	Light Source	Lamp Base	Materials
FTK70317v0	7.2	Ø60 x H180	LED PAR16	GU10	Polycarbonate
FTA70317v0	7.2	Ø60 x H163	LED PAR16	GU10	Polycarbonate
FTS70317v0	7.2	Ø60 x H163	LED PAR16	GU10	Polycarbonate



MEGAMAN® TOBY



MEGAMAN® TOBY

LED Tracklight

MEGAMAN® TOBY has a stylish finishing with aluminium material and uses an LED AR111 reflector to offer superb high lumen intensity and up to 40,000 hours service lifetime, which is perfect for the conventional halogen AR111 application replacement.

Designed for adjustable 340° rotation and 170° tilt angles, MEGAMAN® TOBY allows for multidirectional lighting. It is perfect for use in any retail outlet, hotel, restaurant, gallery or residential applications.

Features

- Designed to replace conventional halogen applications, MEGAMAN® TOBY uses a stylish finishing with aluminium material and works with LED AR111 to offer up to 40,000 hours service lifetime
- Flexible multi-directional lighting with adjustable 340° rotation and 170° tilt angles
- Track version has 3 circuit track adaptor as standard compatible with most 3 circuit systems
- Asian track adaptor version available



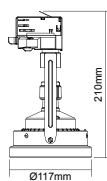
Applications

- Retail outlets
- Hotels
- Restaurants
- Galleries
- Residential applications

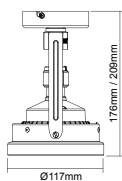


MEGAMAN® TOBY

F13117TK / F13117TA



F13117SM



F13117SM



Model No.	Max. Wattage (W)	Dimension (mm)	Light Source	Lamp Base	Materials
F13117TK / F13117TA	11.5	Ø117 x H210	LED AR111	GU10	Steel



MEGAMAN® MOSAIC



MEGAMAN® MOSAIC

LED Tracklight

MEGAMAN® MOSAIC is a compact adjustable fitting for use with LED PAR16 reflectors to replace halogen in accent lighting applications – offering excellent light output with up to 25,000 hours lifetime.

With adjustable 330° rotation and 90° tilt angles, MEGAMAN® MOSAIC provides a flexible multidirectional lighting solution that is ideal for accent lighting applications. MEGAMAN® MOSAIC offers visual comfort with minimal glare.

Features

- Flexible multi-directional lighting: adjustable 330° rotation and 90° tilt angle, Ideal for use in galleries, restaurants, showrooms, hotels, retail outlets, reception areas, etc.
- Offers visual comfort with minimal glare
- Adjustable lamp holder for easy installation
- Offers two installation methods: track and surface mounted
- Track version has 3 circuit track adaptor as standard compatible with most 3 circuit systems
- Asian track adaptor version available



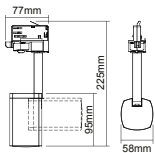
Applications

- Galleries
- Restaurants
- Showrooms
- Hotels
- Retail outlets
- Reception areas

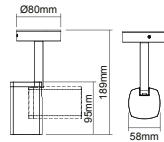


MEGAMAN® MOSAIC

F11517TA / F11517TK



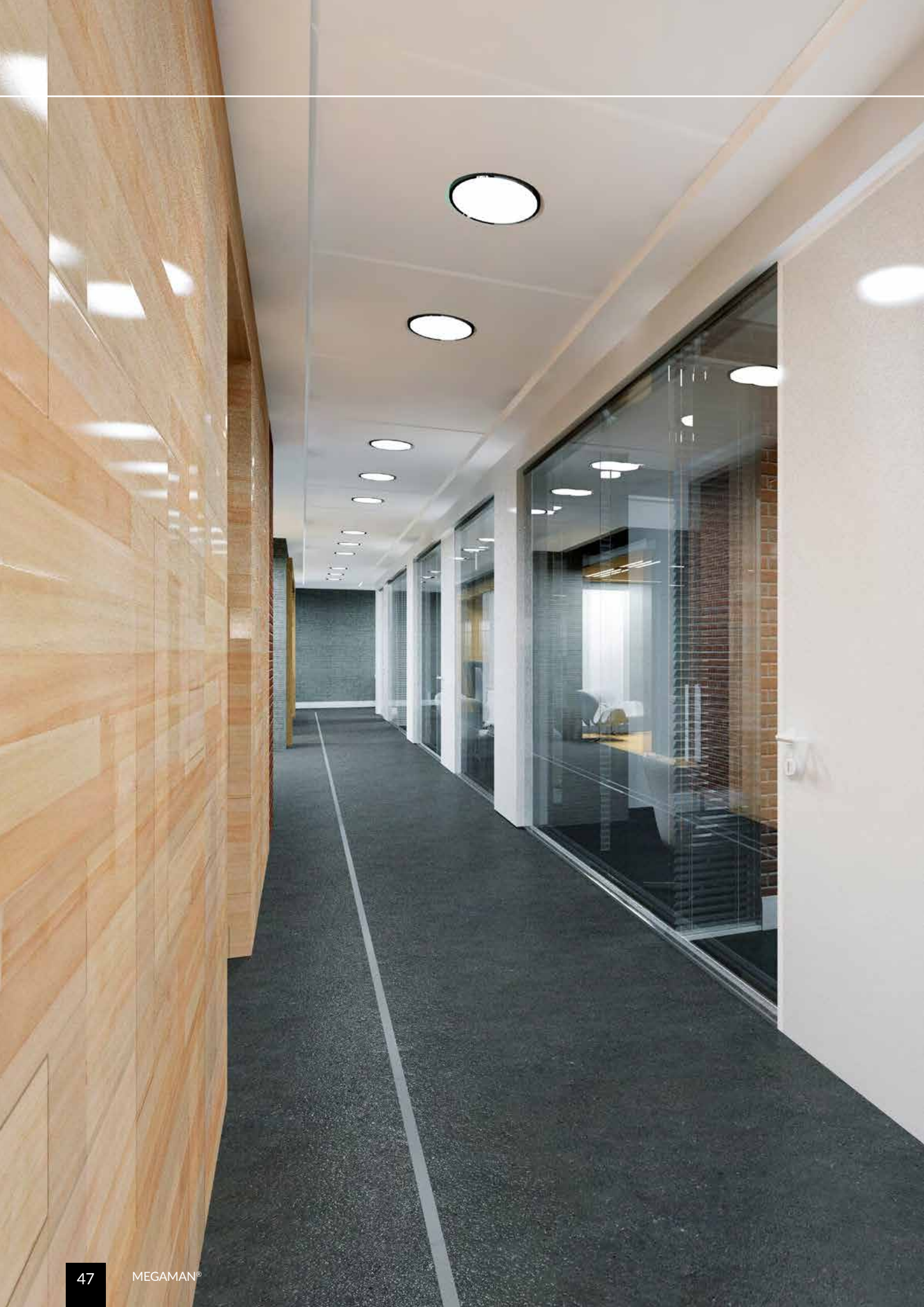
F11517SM



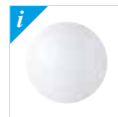
Model No.	Max. Wattage (W)	Dimension (mm)	Light Source	Lamp Base	Materials
F11517TA	14	W58 x L77x H193	LED PAR16	GU10	Polycarbonate
F11517TK	14	W58 x L77x H225	LED PAR16	GU10	Polycarbonate
F11517SM	14	W58 x Ø80 x H189	LED PAR16	GU10	Polycarbonate



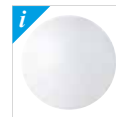
Max. 7.2W
LED PAR16
GU10



INDOOR LIGHTING/ Bulkhead



MEGAMAN®
RENZO



MEGAMAN®
RENZOLITE

MEGAMAN® RENZO



MEGAMAN® RENZO



MEGAMAN® RENZO

Integrated LED bulkhead

MEGAMAN® RENZO is an energy efficient integrated surface mounted LED luminaire with a wide range of lumen packages for a perfect alternative to traditional wall-mounted compact fluorescent luminaires (alternative for 1x18W up to 2x26W CFL). It comes with an opal PMMA diffuser that delivers evenly distributed light and visual comfort.

A built-in microwave motion sensor option is available. MEGAMAN® RENZO with microwave motion sensor turns the light on when entering and leaving the room.

Features

- Higher output and larger sizes; Ø390mm with 2000lm and Ø496mm with 2700lm have been introduced to enhance the product range
- Extended wide range of lumen packages for direct alternatives to traditional wall and ceiling mounted luminaires (replacing CFL from 1x18W up to 2x26W, as well as 2D 16W and 28W)
- The built-in microwave motion sensor option uses low power microwave signals, which detect people moving, perfect for stairwell and walkway applications
- Unobtrusive and understated design for all situations
- Opal PMMA diffuser for an evenly distributed light and visual comfort and resistant to oil-laden atmospheres
- Two diffuser options are available now – flat diffuser and domed diffuser
- Suitable for wall-mount and ceiling-mount, ideal for solid surfaces



Emergency Option

- Maintains 3 hours emergency mode at no less than 200lm lumen level ensure that people have sufficient time for escape to safety area
- A green LED indicates the status of the emergency unit for visual inspection and maintenance Fully compliant to the emergency lighting standard EN 60598-2-22
- Replaceable NiCd battery pack for 4-years designed life according to Annex A, EN 60598-2-22



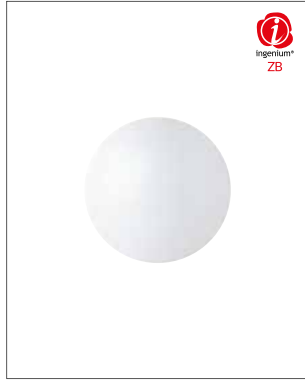
Applications

- Hotels
- Bathrooms
- Kitchens
- Corridors
- Residential applications

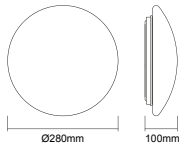


MEGAMAN® RENZO

FCL50500v0-zb/dm+IP44



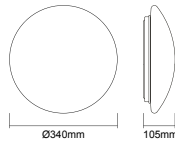
IP44 $\lambda > 0.9$ Class I



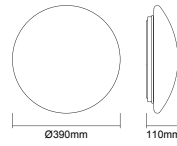
FCL5600v0-zb/dm+IP44



IP44 $\lambda > 0.9$ Class I

FCL50700v1-zb/dm+IP44 /
FCL50700v2-zb/dm+IP44

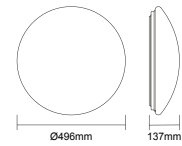
IP44 $\lambda > 0.9$ Class I



FCL63300v1-zb/dm+IP44



IP44 $\lambda > 0.9$ Class I



220-
240V

White
(WH26)

RENZO DIM

Model No.		Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	IP Rating	Power Factor (λ)	Dimmable	Material
FCL50500v0-zb/dm+IP44		10.5	800	76	110	Ø280 x H100	3000K / 4000K [$>Ra80$]	50000	IP44	>0.9	100-10%	Steel housing with PMMA diffuser
FCL50600v1-zb/dm+IP44		13.5	1100	81	110	Ø340 x H105	3000K / 4000K [$>Ra80$]	50000	IP44	>0.9	100-10%	Steel housing with PMMA diffuser
FCL50700v1-zb/dm+IP44		23	2000	87	110	Ø390 x H110	3000K / 4000K [$>Ra80$]	50000	IP44	>0.9	100-10%	Steel housing with PMMA diffuser
FCL50700v2-zb/dm+IP44		17	1400	82		Ø390 x H110	3000K / 4000K [$>Ra80$]	50000	IP44	>0.9	100-10%	Steel housing with PMMA diffuser
FCL63300v1-zb/dm+IP44		32.5	2700	83		Ø496 x 134	3000K / 4000K [$>Ra80$]	50000	IP44	>0.9	100-10%	Steel housing with PMMA diffuser



RENZO DIM

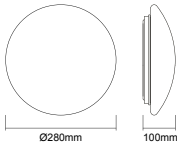
- All the features of the popular RENZO Bulkheads but Integrated with the latest ZigBee technologies
- Utilizes the *INGENIUM*® ZB Smart Control Platform;
- Scalable and Interoperable Smart Lighting System for high-end applications
- Easy to use – scenes mode and individual control is available
- Convenient to control via remote, smart phone or tablet
- Easy to add or remove products without control system rewiring
- Compatible with common ZigBee® equipped super gateways
- Integrates with existing home automation systems.
- Suitable for wall and ceiling mounting, ideal for solid surfaces
- Applications: hotels, bathrooms, kitchens, corridors, and residential applications

MEGAMAN® RENZO

FCL71600v0-sc
FCL71600v0-sc+LA11149
FCL71600v0-sc+LA10175



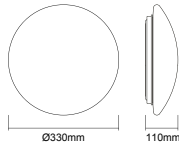
IP44 Class I Flicker Free ≤ 3%



FCL71700v0-sc
FCL71700v0-sc+LA11149
FCL71700v0-sc+LA10175
FCL71700v0-sc+LA10175+LA11149



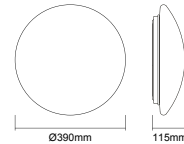
IP44 Class I Flicker Free ≤ 3%



FCL71800v0-ds-sc
FCL71800v0-ds+LA11149
FCL71800v0-ds+LA10175
FCL71800v0-ds+LA10175+LA11149



IP44 Class I Flicker Free ≤ 3%



220-240V

White (WH26)

Model No.	Feature	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Remarks
FCL71600v0-sc	1, 5	11	930 [3000K] 1000 [4000K]	85 [3000K] 91 [4000K]	110	Ø280 x H100	3000K / 4000K [>Ra80]	50000	10
FCL71600v0-sc+LA11149	2, 7	11	930 [3000K] 1000 [4000K]	85 [3000K] 91 [4000K]	110	Ø280 x H100	3000K / 4000K [>Ra80]	50000	10
FCL71600v0-sc+LA10175	3, 6	11	930 [3000K] 1000 [4000K]	85 [3000K] 91 [4000K]	110	Ø280 x H100	3000K / 4000K [>Ra80]	50000	10
FCL71700v0-sc	1, 5	15	1300 [3000K] 1400 [4000K]	87 [3000K] 93 [4000K]	110	Ø330 x H110	3000K / 4000K [>Ra80]	50000	11
FCL71700v0-sc+LA11149	2, 7	15	1300 [3000K] 1400 [4000K]	87 [3000K] 93 [4000K]	110	Ø330 x H110	3000K / 4000K [>Ra80]	50000	11
FCL71700v0-sc+LA10175	3, 6	15	1300 [3000K] 1400 [4000K]	87 [3000K] 93 [4000K]	110	Ø330 x H110	3000K / 4000K [>Ra80]	50000	11
FCL71700v0-sc+LA10175+LA11149	4, 8	15	1300 [3000K] 1400 [4000K]	87 [3000K] 93 [4000K]	110	Ø330 x H110	3000K / 4000K [>Ra80]	50000	11
FCL71800v0-ds-sc	1, 5, 9	22/15/10	1850/1300/930 [3000K] 2000/1400/1000 [4000K]	84/87/93 [3000K] 91/93/100 [4000K]	110	Ø390 x H115	3000K / 4000K [>Ra80]	50000	11
FCL71800v0-ds+LA11149	2, 7, 9	22/15/10	1850/1300/930 [3000K] 2000/1400/1000 [4000K]	84/87/93 [3000K] 91/93/100 [4000K]	110	Ø390 x H115	3000K / 4000K [>Ra80]	50000	11
FCL71800v0-ds+LA10175	3, 6, 9	22/15/10	1850/1300/930 [3000K] 2000/1400/1000 [4000K]	84/87/93 [3000K] 91/93/100 [4000K]	110	Ø390 x H115	3000K / 4000K [>Ra80]	50000	11
FCL71800v0-ds+LA10175+LA11149	4, 8, 9	22/15/10	1850/1300/930 [3000K] 2000/1400/1000 [4000K]	84/87/93 [3000K] 91/93/100 [4000K]	110	Ø390 x H115	3000K / 4000K [>Ra80]	50000	11

- 1 Standard (DUAL CCT)
- 2 Standard (DUAL CCT) + Emergency Kit Module
- 3 Standard (DUAL CCT) + Microwave Motion Sensor
- 4 Standard (DUAL CCT) + Emergency Kit Module + Microwave Motion Sensor
- 5 Working temperature of basic RENZO module: -30°C to +40°C
- 6 Working temperature of microwave motion sensor at -20°C to +40°C
- 7 Working temperature of emergency kit module at 0°C to +35°C

- 8 Working temperature of models with emergency kit module + microwave motion sensor at 0°C to +35°C
- 9 Tri-lumen output
- 10 Due to limited space, only compatible to either microwave motion sensor OR emergency kit module at a time
- 11 Compatible to microwave motion sensor AND emergency kit module at the same time

MEGAMAN® RENZO

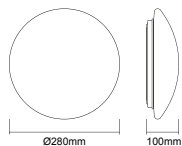
FCL71600v0
FCL71600v0+LA11149
FCL71600v0+LA10175

FCL71700v0
FCL71700v0+LA11149
FCL71700v0+LA10175
FCL71700v0+LA10175+LA11149

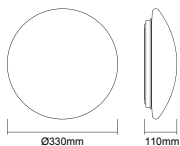
FCL71800v0-ds
FCL71800v0-ds+LA11149
FCL71800v0-ds+LA10175
FCL71800v0-ds+LA10175+LA11149



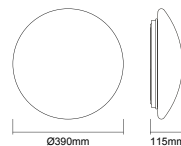
IP44 Class I Flicker Free ≤ 3%



IP44 Class I Flicker Free ≤ 3%



IP44 Class I Flicker Free ≤ 3%



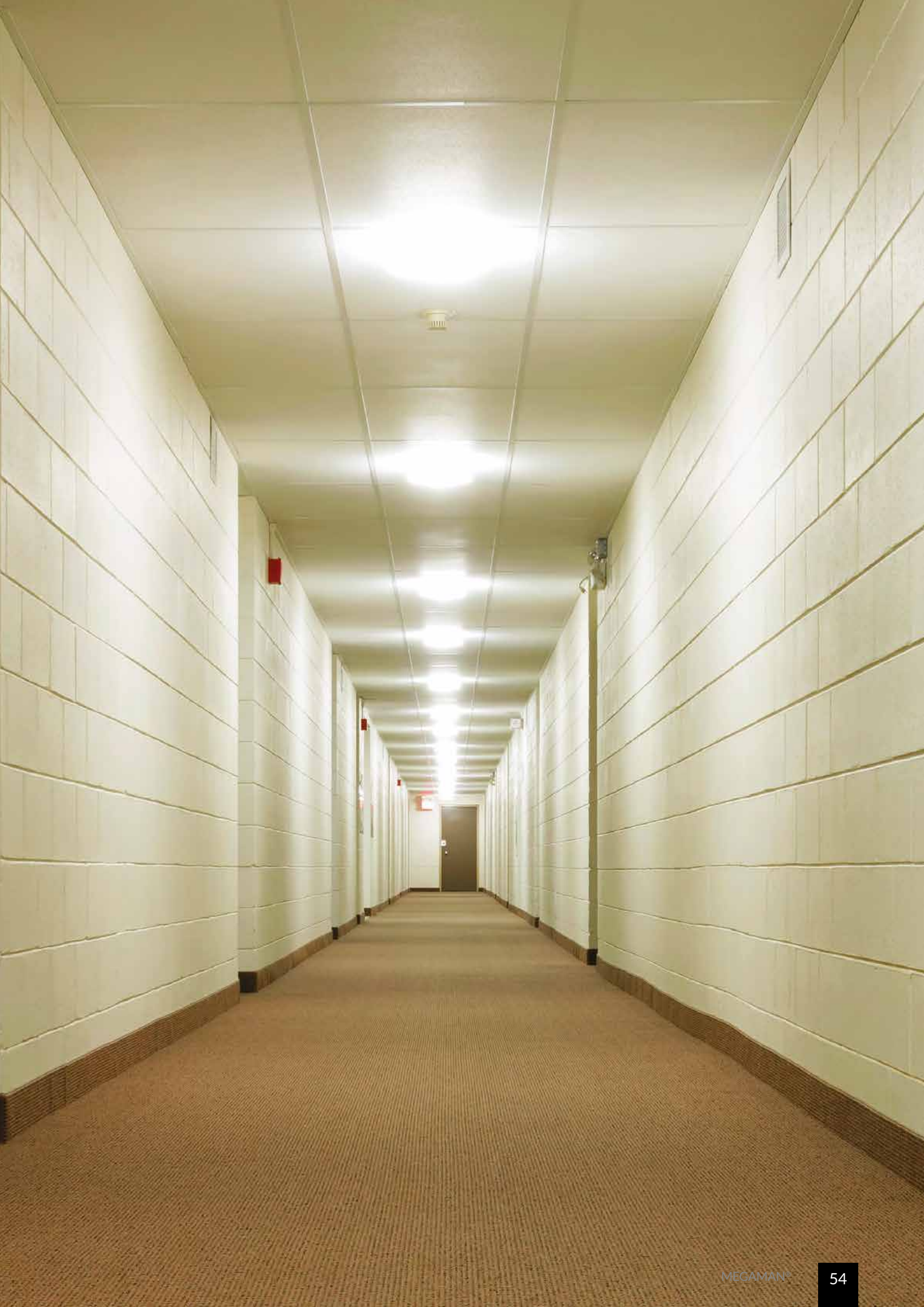
220-240V

White (WH26)

Model No.	Feature	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Remarks
FCL71600v0	1, 5	11	1000	91	110	Ø280 x H100	4000K [>Ra80]	50000	11
FCL71600v0+LA11149	2, 7	11	1000	91	110	Ø280 x H100	4000K [>Ra80]	50000	11
FCL71600v0+LA10175	3, 6	11	1000	91	110	Ø280 x H100	4000K [>Ra80]	50000	11
FCL71700v0	1, 5	15	1400	93	110	Ø330 x H110	4000K [>Ra80]	50000	10
FCL71700v0+LA11149	2, 7	15	1400	93	110	Ø330 x H110	4000K [>Ra80]	50000	10
FCL71700v0+LA10175	3, 6	15	1400	93	110	Ø330 x H110	4000K [>Ra80]	50000	10
FCL71700v0+LA10175+LA11149	4, 8	15	1400	93	110	Ø330 x H110	4000K [>Ra80]	50000	10
FCL71800v0-ds	1, 5, 9	22/15/10	2000/1400/1000	91/93/100	110	Ø390 x H115	4000K [>Ra80]	50000	10
FCL71800v0-ds+LA11149	2, 7, 9	22/15/10	2000/1400/1000	91/93/100	110	Ø390 x H115	4000K [>Ra80]	50000	10
FCL71800v0-ds+LA10175	3, 6, 9	22/15/10	2000/1400/1000	91/93/100	110	Ø390 x H115	4000K [>Ra80]	50000	10
FCL71800v0-ds+LA10175+LA11149	4, 8, 9	22/15/10	2000/1400/1000	91/93/100	110	Ø390 x H115	4000K [>Ra80]	50000	10

- Standard (4000K ONLY)
- Standard (4000K ONLY) + Emergency Kit Module
- Standard (4000K ONLY) + Microwave Motion Sensor
- Standard (4000K ONLY) + Emergency Kit Module + Microwave Motion Sensor
- Working temperature of basic RENZO module: -30°C to +40°C
- Working temperature of microwave motion sensor at -20°C to +35°C
- Working temperature of emergency kit module at 0°C to +35°C
- Working temperature of models with emergency kit module + microwave motion sensor at 0°C to +35°C
- Tri-lumen output
- Compatible to microwave motion sensor and emergency kit module at the same time
- Due to limited space, only compatible to either microwave motion sensor or emergency kit module at a time





MEGAMAN® RENZOLITE



MEGAMAN® RENZOLITE

Integrated LED bulkhead

MEGAMAN® RENZOLITE is with durable PMMA cover avoid yellowish. The light puts out a uniform and diffused light to cover the room.

Features

- Delivers wide range of lumen packages for direct alternatives to traditional wall and ceiling
- Unobtrusive and understated design for all situations
- An evenly distributed light and visual comfort
- Durable PMMA cover avoid yellowish



Applications

- Bathrooms
- Kitchens
- Corridors
- Residential

MEGAMAN® RENZOLITE

FCL72300v0 / F50500SMv2
F50600SMv2 / F50700SMv2



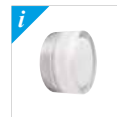
220-
240V

White
(WH26)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Materials
FCL72300v0	6	420	70	Ø180 x H75	3000K / 4000K / 6500K	25000	Metal Housing with PMMA cover
F50500SMv2	12	900	75	Ø225 x H68	3000K / 4000K / 6500K	25000	Metal Housing with PMMA cover
F50600SMv2	18	1350	75	Ø338 x H80	3000K / 4000K / 6500K	25000	Metal Housing with PMMA cover
F50700SMv2	24	1800	75	Ø386 x H80	3000K / 4000K / 6500K	25000	Metal Housing with PMMA cover



INDOOR LIGHTING/ Wall Lamp



MEGAMAN®
DANI

MEGAMAN® DANI



MEGAMAN® DANI



MEGAMAN® DANI

GX53 Wall Lamp

The MEGAMAN® DANI has a modern aesthetic that utilizes an energy efficient LED GX53 light source, to replace traditional inefficient halogen wall lights. The cylindrical crystal shade has a quality look with its gloss finish and the illumination is evenly diffused for a soft light.

Features

- High-quality materials – clear crystal and steel
- Timeless and elegant design profile
- Soft, semi-decorative and useful light effect
- End user serviceable GX53 LED lamp
- PMMA diffuser offers resistant to oil-laden atmospheres

Applications

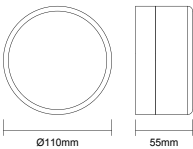
- General illumination
 - Hospitality
 - Corridors
 - Cloakrooms
 - Dining rooms
-

MEGAMAN® DANI

FWL70318v0



IP44



Nickel
(Ni51)

Model No.	Max. Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colour Temp. [CRI]	Dimension (mm)	Light Source	Lamp Base	Material
FWL70318v0	7	520	74	2800K / 4000K [Ra80]	Ø110 x H55	LED GX53	GX53	ABS + PMMA





INDOOR LIGHTING/ Batten



MEGAMAN®
PINOLITE



MEGAMAN®
KETO



MEGAMAN®
MALO



MEGAMAN®
TONO



MEGAMAN®
FORD



MEGAMAN®
FARRON

MEGAMAN® PINOLITE



MEGAMAN® PINOLITE



MEGAMAN® PINOLITE

Integrated LED batten

MEGAMAN® PINOLITE is the right choice for recessed wall wash, display shelf lighting and concealed linear lighting applications. The integrated LED linear tube design with high system luminous efficacy of up to 92lm/w is a true replacement for traditional T5 battens.

Features

- Energy saving LED linear batten to replace conventional T5 batten
- Long life, low maintenance cost
- Durable and economical solution
- Offers various lengths for flexible solutions: 0.3 m, 0.6 m, 0.9 and 1.2 m
- Integrated connector makes allows easy in line connection for continuous runs
- Translucent end caps reduce dark zones
- Accessories: patch cord, mounting clips, power cord
- Built in ON/OFF switch

Applications

- Shops and boutiques
- Display shelves
- Wall lighting
- Light troughs
- Office

Plug- and-Play: Connect up to

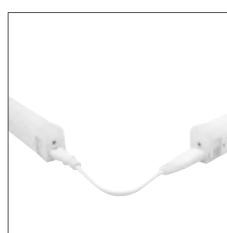
- 65 units for FIB71400v0
- 19 units for FIB71500v0
- 12 units for FIB71600v0
- 9 units for FIB71700v0



Translucent end-cap design that eliminates the dark zone between the batten connections



Extendable built-in socket



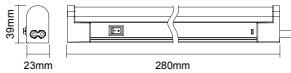
150mm patch cord to cater angular connection

MEGAMAN® PINOLITE

FIB71400v0



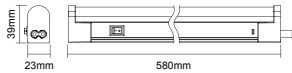
Class II



FIB71500v0



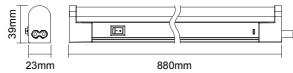
Class II



FIB71600v0



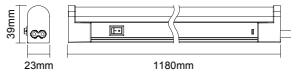
Class II



FIB71700v0



Class II



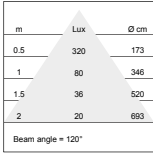
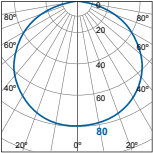
220-240V

IP20

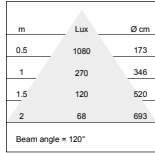
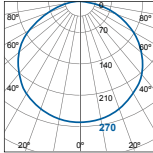
White (WH13)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FIB71400v0	3.5	300 [3000K] 320 [4000K / 6500K]	86 [3000K] 91 [4000K / 6500K]	120	L280 x W23 x H39	3000K / 4000K / 6500K [>Ra80]	35000	>0.5	Polycarbonate
FIB71500v0	12	1000 [3000K] 1100 [4000K / 6500K]	83 [3000K] 92 [4000K / 6500K]	120	L580 x W23 x H39	3000K / 4000K / 6500K [>Ra80]	35000	>0.5	Polycarbonate
FIB71600v0	19	1600 [3000K] 1700 [4000K / 6500K]	84 [3000K] 89 [4000K / 6500K]	120	L880 x W23 x H39	3000K / 4000K / 6500K [>Ra80]	35000	>0.5	Polycarbonate
FIB71700v0	24.5	2000 [3000K] 2200 [4000K / 6500K]	82 [3000K] 90 [4000K / 6500K]	120	L1180 x W23 x H39	3000K / 4000K / 6500K [>Ra80]	35000	>0.5	Polycarbonate

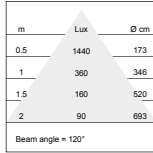
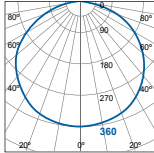
FIB71400v0



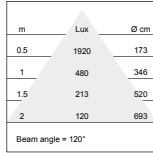
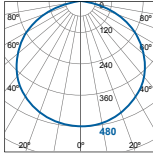
FIB71500v0



FIB71600v0



FIB71700v0



Accessory



LA8002
1.8m Power cord



LA8036
150mm Patch cord



LA8004
Angle joint for PINOLITE



LA8005
Mounting clips
(Comes with MEGAMAN® PINOLITE)



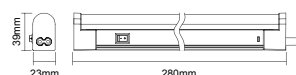
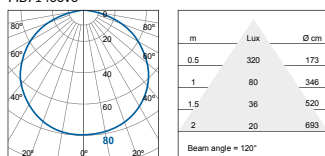
LA8039
Female pole protective cap

MEGAMAN® PINOLITE

FIB71400v1-pt

Class
II

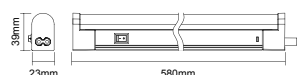
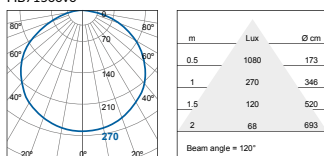
FIB71400v0



FIB71500v0-pt

Class
II

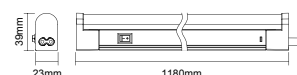
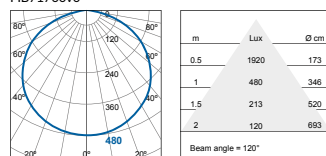
FIB71500v0



FIB71700v0 / FIB71700v0-pt

Class
II

FIB71700v0

220-
240V-30°C
+40°CWhite
(WH13)

Plant Lamp

Model No.	Wattage (W)	Photon Flux (μmol/s)	Photon Flux / watt (μmol/J)	Beam Angle (°)	Dimension (mm)	Rated life (hrs)	IP Rating
FIB71400v1-pt	4	8	2	120	L280 x W23 x H39	25000	IP20
FIB71500v1-pt	8.5	17	2	120	L580 x W23 x H39	25000	IP20
FIB71700v1-pt	17	34	2	120	L1180 x W23 x H39	25000	IP20



PINOLITE Plant Lamp

- Different lengths (0.3m / 0.6m / 1.2m) of battens available for various horticulture applications
- Energy saving with high efficacy of up to 2.0μmol/J
- Offer the most suitable illumination intensity and photosynthetically active region (PAR) in deep blue 450nm and hyper red 660nm that the crops need for photosynthesis
- Excellent light uniformity to shorten the production cycle by enhancing the seeding rate and survival rate, as a result of achieving a higher return of each crop
- Suitable for tomato, cabbage, baby leaf lettuce, kale plants, lettuce, green onions, etc.

MEGAMAN® KETO



MEGAMAN® KETO



MEGAMAN® KETO

Integrated LED batten

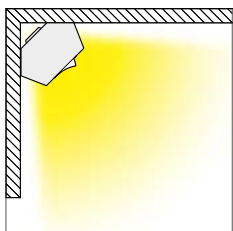
MEGAMAN® KETO is an ideal luminaire range for indoor applications for residential lighting, while delivering a significant lighting performance. With the Hexagon shape design, the luminaire is able to be mounted for 45° applications. MEGAMAN® KETO is easy to handle as the integrated driver and built-in LED facilitates easy installation.

Features:

- True replacement for traditional T5 & T8 battens
- Integrated driver and built-in LED facilitates easy installation
- Hexagon shape design with inclined base to be mounted for 45° applications
- Two electrical sockets with the luminaire for the power supply to other devices

Applications

- Staircases
- Factories
- Corridors
- Warehouses
- Under cabinet



The base is inclined, so MEGAMAN® KETO can be mounted at 45° under cabinets



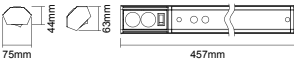
Two electrical sockets for supply of appliances

MEGAMAN® KETO

F59900SM



Class
I



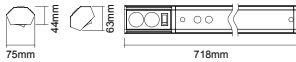
220-
240V

IP21

F60000SM



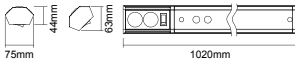
Class
I



F60100SM



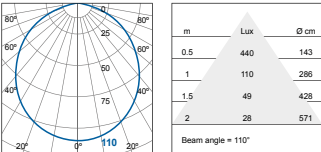
Class
I



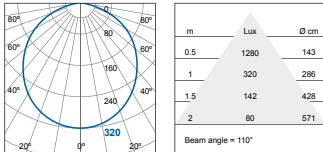
White
(WH26)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
F59900SM	3	300	100	110	L457 x W75 x H44	2800K / 4000K / 6500K [>Ra80]	40000	>0.7	Aluminium housing with polycarbonate diffuser
F60000SM	9	900	100	110	L718 x W75 x H44	2800K / 4000K / 6500K [>Ra80]	40000	>0.9	Aluminium housing with polycarbonate diffuser
F60100SM	14.5	1450	100	110	L1020 x W75 x H44	2800K / 4000K / 6500K [>Ra80]	40000	>0.9	Aluminium housing with polycarbonate diffuser

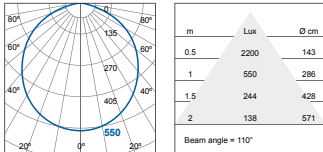
F59900SM



F60000SM



F60100SM





MEGAMAN® MALO



180°



Wide 180° exit window,
offers an even light
distribution

MEGAMAN® MALO



MEGAMAN® MALO

Integrated LED batten

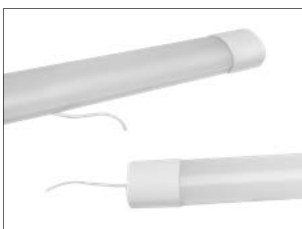
The MEGAMAN® MALO Batten range of LED products can be used to replace T5 and T8 traditional battens. The luminaire is equipped with the wide 180° exit window that offers an even light distribution. In addition, two concealed surface mounting clips are provided for facilitating the installation. MEGAMAN® MALO is the perfect choice for a wide range of residential lighting, staircases, warehouses and corridors.

Features

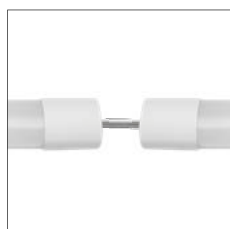
- Integrated driver with built-in LED that facilitates easy installation and servicing
- Various cable entries possible including through wiring for continuous runs
- True replacement for traditional T5 and T8 battens
- Surface/wall mounted
- Suitable for task and area lighting

Applications

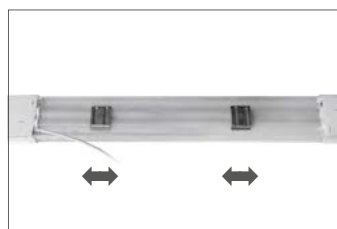
- Residential lighting
- Staircases
- Factories
- Corridors
- Warehouses
- Under cabinet



Cable entries possible at rear side or both ends with Ø18mm knock-outs that allow different wiring options



Through wire connection possible



Two concealed surface mounting clips for easy installation and enhanced product appearance

MEGAMAN® MALO

FIB70000v1-pl



$\lambda > 0.9$ Class II IK05



FIB70100v1-pl



$\lambda > 0.9$ Class II IK05



FIB70200v1-pl



$\lambda > 0.9$ Class II IK05

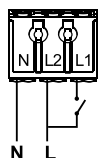


220-240V IP20

White (WH12)

Permanent Live Option

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Material
FIB70000v1-pl	15	1500	100	110	L600 x W75 x H39	3000K / 4000K / 6500K [>Ra80]	50000	Polycarbonate
FIB70100v1-pl	35	3600	103	110	L1200 x W75 x H39	3000K / 4000K / 6500K [>Ra80]	50000	Polycarbonate
FIB70200v1-pl	42	4500	107	110	L1500 x W75 x H39	3000K / 4000K / 6500K [>Ra80]	50000	Polycarbonate

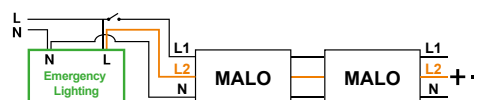


3-wire connection, allows unswitched live supply to the luminaire or appliances (i.e. CCTV, security alarm system, smoke detector, etc.) when the switch is off

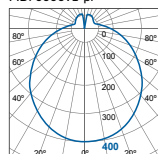


Application with Emergency Lighting

Non-maintained¹ emergency luminaires stay connected and charge on the permanent live, while the general lighting can work as usual on the switched circuit. In the event of power failure, the emergency units light up on their internal batteries.



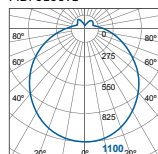
FIB70000v1-pl



m	Lux	Ø cm
0.5	1800	143
1	400	286
1.5	178	428
2	100	571

Beam angle = 110°

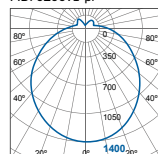
FIB70100v1



m	Lux	Ø cm
0.5	4400	143
1	1100	286
1.5	489	428
2	275	571

Beam angle = 110°

FIB70200v1-pl



m	Lux	Ø cm
0.5	5600	143
1	1400	286
1.5	622	428
2	350	571

Beam angle = 110°



MEGAMAN® TONO



MEGAMAN® TONO



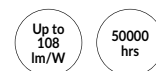
MEGAMAN® TONO

Integrated LED batten

MEGAMAN® TONO is a cost-effective and reliable indoor LED batten minimizing the initial investment without compromising flexibility. The luminaire is not only saving much energy costs compared to traditional battens, but also offering a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market.

Features

- High competitive value-for-money option for replacing the traditional battens
- Special mounting clip for UK 'Beza' connection box
- Compliant with the building regulation, approved document B"fire Safety" – Classification TP(B).
- Flicker free (flicker Ratio <3% @100Hz)
- Product line extension by introducing 900mm and 1800mm
- Enhancing efficacy up to 108lm/W



Applications

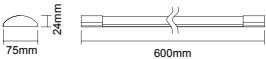
- Residential lighting
- Staircases
- Factories
- Corridors
- Warehouses
- Under cabinet

MEGAMAN® TONO

FIB70500v2



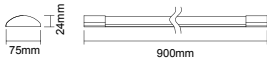
$\lambda > 0.9$ Class II



FIB73300v0



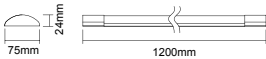
$\lambda > 0.9$ Class II



FIB70600v2



$\lambda > 0.9$ Class II

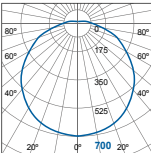


220-240V IP20

White (WH12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Material
FIB70500v2	21	2100 [3000K]	100 [3000K]	110	L600 x W75 x H24	3000K [≥80]	50000	Polycarbonate
FIB70500v2	21	2200 [4000K]	105 [4000K]	110	L600 x W75 x H24	4000K [≥80]	50000	Polycarbonate
FIB73300v0	31	3150 [3000K]	102 [3000K]	110	L900 x W75 x H24	3000K [≥80]	50000	Polycarbonate
FIB73300v0	31	3300 [4000K]	106 [4000K]	110	L900 x W75 x H24	4000K [≥80]	50000	Polycarbonate
FIB70600v2	42	4150 [3000K]	99 [3000K]	110	L1200 x W75 x H24	3000K [≥80]	50000	Polycarbonate
FIB70600v2	42	4350 [4000K]	104 [4000K]	110	L1200 x W75 x H24	4000K [≥80]	50000	Polycarbonate

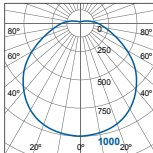
FIB70500v2



m	Lux	Ø cm
0.5	3080	143
1	770	286
1.5	342	428
2	193	571

Beam angle = 110°

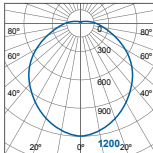
FIB73300v0



m	Lux	Ø cm
0.5	4640	143
1	1160	286
1.5	516	428
2	290	571

Beam angle = 110°

FIB70600v2



m	Lux	Ø cm
0.5	5800	143
1	1450	286
1.5	644	428
2	363	571

Beam angle = 110°

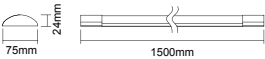
MEGAMAN® TONO

FIB70700v2



λ
>0.9

Class
II

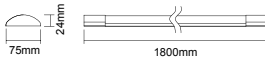


FIB73400v0



λ
>0.9

Class
II



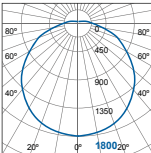
220-
240V

IP20

White
(WH12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Material
FIB70700v2	52	5350 [3000K]	103 [3000K]	110	L1500 x W75 x H24	3000K [≥80]	50000	Polycarbonate
FIB70700v2	52	5600 [4000K]	108 [4000K]	110	L1500 x W75 x H24	4000K [≥80]	50000	Polycarbonate
FIB70700v2	52	5600 [6500K]	108 [6500K]	110	L1500 x W75 x H24	6500K [≥80]	50000	Polycarbonate
FIB73400v0	62	6250 [3000K]	101 [3000K]	110	L1800 x W75 x H24	3000K [≥80]	50000	Polycarbonate
FIB73400v0	62	6550 [4000K]	106 [4000K]	110	L1800 x W75 x H24	4000K [≥80]	50000	Polycarbonate
FIB73400v0	62	6550 [6500K]	106 [6500K]	110	L1800 x W75 x H24	6500K [≥80]	50000	Polycarbonate

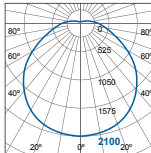
FIB70700v2



m	Lux	Ø cm
0.5	7200	143
1	1800	286
1.5	800	428
2	450	571

Beam angle = 110°

FIB73400v0



m	Lux	Ø cm
0.5	8400	143
1	2100	286
1.5	933	428
2	525	571

Beam angle = 110°

MEGAMAN® FORD



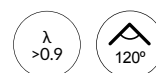
MEGAMAN® FORD

Integrated LED batten

MEGAMAN® FORD is the ideal batten choice for true replacements of traditional T5 and T8 with up to 44% energy saving, providing high quality lighting in designated area.

Features

- Compact design, Integrated driver with built-in LED that facilitates easy installation and servicing
- Loop through connection enhancing the flexibility of installations
- Surface-mounted or wire suspension options available



Applications

- Residential lighting
- Factories
- Corridors
- Warehouses

MEGAMAN® FORD

FIB74100v0 / FIB74200v0
FIB74300v0



λ
>0.9

Class
II



220-
240V

IP20

Silver
(SV16)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Material
FIB74100v0	30	2400	80	120	L600 x W58 x H46	3000K / 4000K / 6500K	25000	Polycarbonate
FIB74200v0	45	3600	80	120	L1200 x W58 x H46	3000K / 4000K / 6500K	25000	Polycarbonate
FIB74300v0	60	4800	80	120	L1500 x W58 x H46	3000K / 4000K / 6500K	25000	Polycarbonate

MEGAMAN® FARRON



MEGAMAN® FARRON

Integrated LED batten

Features

- Direct 1 to 1 replacement of conventional indoor batten in LED solution
- Slim and versatile outlook
- Built in Microwave sensor & emergency kit provide a consistent outlook with standard version
- White powder coating
- Capable to connect with conduit at both end by Ø25mm Knockout
- Click in Opal diffuser into metal bottom base
- Easy and toolless installation & wiring
- Selectable lumen, Sensor & Emergency kit options available.



Applications

- Residential lighting
- Factories
- Corridors
- Warehouses



Emergency Option

MEGAMAN® FARRON

FIB73500v0 / FIB73600v0
FIB73700v0 / FIB73800v0



IP20



220-
240V

IP20

White
(WH12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L80 B10 at Ta25°C	Materials
FIB73500v0	10W/21W	900/1900	90	120	600x80x65mm	3000K/4000K	50000	Polycarbonate
FIB73600v0	21W/42W	1850/3800	88/90	120	1200x80x65mm	3000K/4000K	50000	Polycarbonate
FIB73700v0	10W/20W	1000/2000	100	120	640x130x80mm	3000K/4000K	50000	Polycarbonate
FIB73800v0	20W/40W	2000/4000	100	120	1240x130x80mm	3000K/4000K	50000	Polycarbonate

- * Microwave Sensor, Multi-power option
- * Emergency (1.2m only)
- * 4 Step dimming light level
- * Switching CCT (4000K,5000K,6500K)



INDOOR LIGHTING/ Downlight



MEGAMAN®
SIENA



MEGAMAN®
SIENALITE



MEGAMAN®
PLANEX



MEGAMAN®
CARLO and
CARLO Mini



MEGAMAN®
CARDIO



MEGAMAN®
RICO



MEGAMAN®
RICO HR



MEGAMAN®
ANNA



MEGAMAN®
ABBY



MEGAMAN®
ZEKI



MEGAMAN®
TEGO



MEGAMAN®
SIRA



MEGAMAN®
PALMLITE



MEGAMAN®
SAGE

MEGAMAN® SIENA



MEGAMAN® SIENA



MEGAMAN® SIENA

Integrated LED downlight

MEGAMAN® SIENA is a range of low energy LED downlights with integrated driver and built-in LED that facilitates easy installation. Compared to conventional downlights in which a substantial amount of light is lost in the system, MEGAMAN® SIENA delivers high system efficiency making it an ideal energy efficient replacement.

Different features and technology options are available in the MEGAMAN® SIENA family, for example; IP44, Dim to Warm and linear dimming. It is available in a range of sizes from 2.5" to 8" diameter with different lumen packages to cater for various applications.

Features

- A range of integrated LED downlights with high system efficiency
- No external driver required which facilitates easy installation and maintenance
- Delivers uniform light distribution
- Range of sizes allowing retrofit for many conventional downlights in existing ceiling cut-outs
- Low in height suitable for restricted ceiling recess depths
- Different beam angle versions are available to cater different applications
- Value engineered with a minimum number of components for a cost competitive solution
- Compact in size — 25mm shorter than a traditional halogen downlight
- Designed with a height of only 55mm, making it ideal for limited recess depths
- Ideal replacement for 50W halogen MR16 and PAR16 downlights



Applications

- Retail
- Bathrooms
- Hotels
- Kitchens
- Offices
- Restaurants

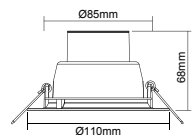
* Please visit www.ingenium.cc for more information.

MEGAMAN® SIENA

F26000RC



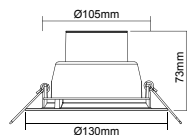
IP44 Class II



F26100RC



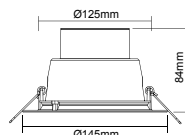
IP44 Class II



F26200RC / F26200RC-d



IP44 Class II

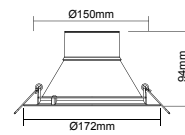


Dimming option available¹

F26300RC




IP44 Class II



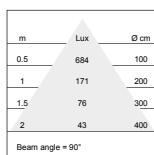
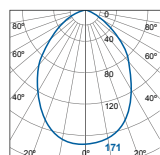
220-240V

White (WH26) Silver (SV26)

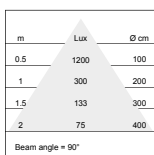
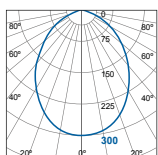
Smart Series

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Materials
F26000RC	5	350	70	90	Ø110 x H68	85	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser
F26100RC	7.5	550	73	90	Ø130 x H73	105	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser
F26200RC	12.5	950	76	90	Ø145 x H84	125	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser
F26200RC-d 	13	950	73	90	Ø145 x H84	125	2800K / 4000K / 6500K [>Ra80]	50000	100-5% ¹	>0.9	Die cast aluminium trim with diffuser
F26300RC	20.5	1560	76	90	Ø172 x H94	150	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser

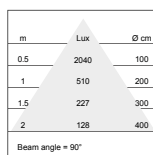
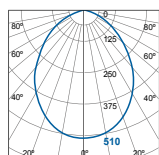
F26000RC



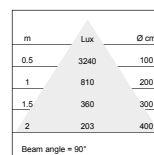
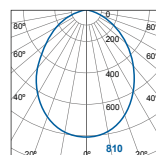
F26100RC



F26200RC / F26200RC-d



F26300RC



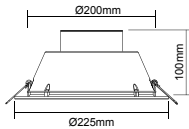
MEGAMAN® SIENA

F28500RC



8"

IP44 Class II

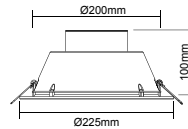


F27100RC



8"

IP44 Class I High Output

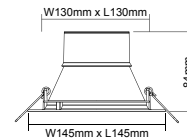


F51400RC



5"

IP44 Class I



Surface Mount Kit

The surface mount kit for MEGAMAN® SIENA in 6" and 8" is now available for the surface mount installation.

6" Surface Mount Kit: LA10017
8" Surface Mount Kit: LA10020



Conduit Connection

MEGAMAN® SIENA with the conduit connection (model no. LA10006) is available.

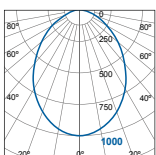
220-240V

White (WH26) Silver (SV26)

Smart Series

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Materials
F28500RC	27	2000	74	90	Ø225 x H100	200	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser
F27100RC	35.5	2700	76	90	Ø225 x H100	200	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser
F51400RC	12.5	950	76	90	W145 x L181 x H89	W130 x L130	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with diffuser

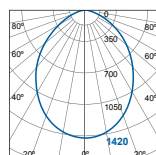
F28500RC



m	Lux	Ø cm
0.5	4000	100
1	1000	200
1.5	444	300
2	250	400

Beam angle = 90°

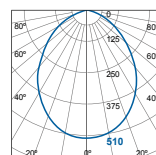
F27100RC



m	Lux	Ø cm
0.5	5680	100
1	1420	200
1.5	631	300
2	355	400

Beam angle = 90°

F51400RC



m	Lux	Ø cm
0.5	2040	100
1	510	200
1.5	227	300
2	128	400

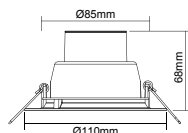
Beam angle = 90°

MEGAMAN® SIENA SR

FDS54400v0



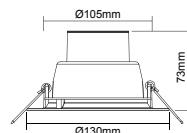
IP44 Class II UGR ≤22 θ^1 Up to 25°



F54500RC



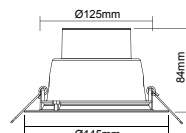
IP44 Class II UGR ≤22 θ^1 Up to 25°



F54600RC



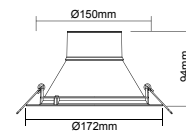
IP44 Class II UGR ≤22 θ^1 Up to 25°



F54700RC



IP44 Class II UGR ≤22 θ^1 Up to 25°



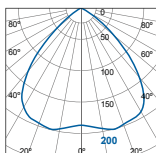
220-240V

White (WH26) Silver (SV24)

Professional Series

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Materials
FDS54400v0	4	350	88	90	Ø110 x H68	85	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.7	Die cast aluminium trim with facet reflector
F54500RC	6	550	92	90	Ø130 x H73	105	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector
F54600RC	9.5	950	100	90	Ø145 x H84	125	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector
F54700RC	15.5	1560	101	90	Ø172 x H94	150	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector

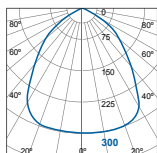
FDS54400v0



m	Lux	Ø cm
0.5	800	100
1	200	200
1.5	89	300
2	50	400

Beam angle = 90°

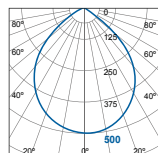
F54500RC



m	Lux	Ø cm
0.5	1200	100
1	300	200
1.5	133	300
2	75	400

Beam angle = 90°

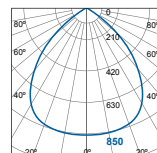
F54600RC



m	Lux	Ø cm
0.5	2000	100
1	500	200
1.5	222	300
2	125	400

Beam angle = 90°

F54700RC



m	Lux	Ø cm
0.5	3400	100
1	850	200
1.5	378	300
2	213	400

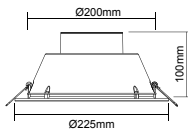
Beam angle = 90°

MEGAMAN® SIENA FR

F54800RC



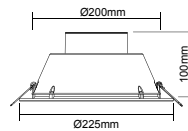
IP44 Class II θ^1 Up to 25°



F54800RCv1



IP44 Class II θ^1 Up to 25° High Output



220-240V



Surface Mount Kit

The surface mount kit for MEGAMAN® SIENA in 6" and 8" is now available for the surface mount installation.

6" Surface Mount Kit: LA10017
8" Surface Mount Kit: LA10020



Conduit Connection

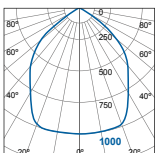
MEGAMAN® SIENA with the conduit connection (model no. LA10006) is available.

White (WH26) Silver (SV26)

Professional Series

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Materials
F54800RC	19	2000	105	90	Ø225 x H100	200	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector
F54800RCv1	25.5	2700	106	90	Ø225 x H100	200	2800K / 4000K / 6500K [>Ra80]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector

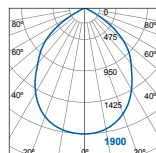
F54800RC



m	Lux	Ø cm
0.5	4000	100
1	1000	200
1.5	444	300
2	250	400

Beam angle = 90°

F54800RCv1



m	Lux	Ø cm
0.5	7600	100
1	1900	200
1.5	844	300
2	475	400

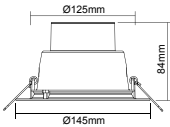
Beam angle = 90°

MEGAMAN® SIENA FR | RichColour

F54600RC-R9



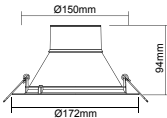
IP44 Class II UGR ≤22 θ^1 Up to 25° Ra92



F54700RC-R9



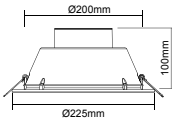
IP44 Class II UGR ≤22 θ^1 Up to 25° Ra92



F54800RC-R9 / F54800RCv2-R9



IP44 Class II θ^1 Up to 25° Ra92



220-240V

White (WH26) Silver (SV26)

Professional Series | RichColour

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Materials
F54600RC-R9	9.5	850	90	90	Ø145 x H84	125	2800K / 4000K / 6500K [Ra92]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector
F54700RC-R9	15.5	1400	90	90	Ø172 x H94	150	2800K / 4000K / 6500K [Ra92]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector
F54800RC-R9	19	1800	95	90	Ø225 x H100	200	2800K / 4000K / 6500K [Ra92]	50000	N/A	>0.9	Die cast aluminium trim with facet reflector



Surface Mount Kit

The surface mount kit for MEGAMAN® SIENA in 6" and 8" is now available for the surface mount installation.

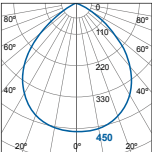
6" Surface Mount Kit: LA10017
8" Surface Mount Kit: LA10020



Conduit Connection

MEGAMAN® SIENA with the conduit connection (model no. LA10006) is available.

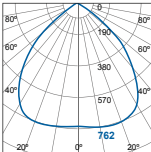
F54600RC-R9



m	Lux	Ø cm
0.5	1800	100
1	450	200
1.5	200	300
2	113	400

Beam angle = 90°

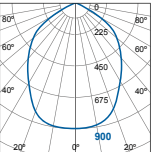
F54700RC-R9



m	Lux	Ø cm
0.5	3048	100
1	762	200
1.5	339	300
2	191	400

Beam angle = 90°

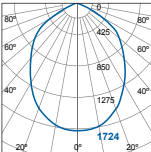
F54800RC-R9



m	Lux	Ø cm
0.5	3600	100
1	900	200
1.5	400	300
2	225	400

Beam angle = 90°

F54800RCv1-R9

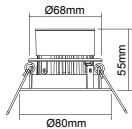


m	Lux	Ø cm
0.5	6896	100
1	1724	200
1.5	766	300
2	431	400

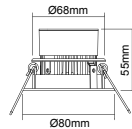
Beam angle = 90°

MEGAMAN® SIENA 2.5" CoverPlus

FDS28100v2-dm



FDS29500v2-dm

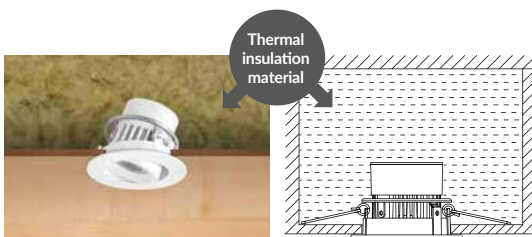


220-240V



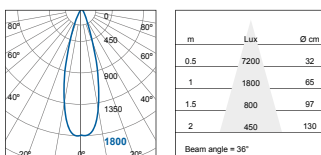
MEGAMAN® SIENA 2.5" CoverPlus

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Power Factor (λ)	Materials
FDS28100v2-dm	6	500	83	36	Ø80 x H55	Ø68	2800K / 4000K [$>Ra80$]	50,000 (25,000 use directly under thermal insulation)	100-5% ¹	>0.85	Metal housing with optical reflector
FDS29500v2-dm	6	500	83	36	L80 x W80 x H55	Ø68	2800K / 4000K [$>Ra80$]	50,000 (25,000 use directly under thermal insulation)	100-5% ¹	>0.85	Metal housing with optical reflector



Can be mounted directly in insulated ceilings without any recess box to prevent contact with thermal insulation

FDS28100v2-dm / FDS29500v2-dm



MEGAMAN® SIENALITE



MEGAMAN® SIENALITE



MEGAMAN® SIENALITE

Integrated LED downlight

MEGAMAN® SIENALITE is a cost-effective sustainable downlight solution designed to replace traditional CFL downlights. Featuring LED technology for high luminous efficacy, it allows further energy-saving and uniform light distribution. MEGAMAN® SIENALITE does not require external driver facilitate easy installation and maintenance. The compact design is suitable for limited ceiling depths.

Features

- A range of recessed integrated LED downlights with high system efficiency
- No external driver required which facilitates easy installation and maintenance
- Delivers uniform light distribution
- Range of sizes allowing retrofit for many conventional downlights in existing ceiling cut-outs
- Low in height and suitable for limited ceiling depths
- Value engineered with a minimum number of components for a cost competitive solution

Applications

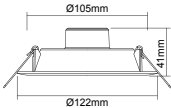
- Retail
- Bathrooms
- Hotels
- Kitchens
- Offices
- Restaurants

MEGAMAN® SIENALITE

FDM70100v0



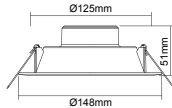
IP20 Class II



FDM70200v0



IP20 Class II



220-240V

White (WH12)

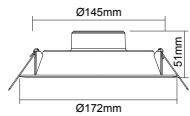
Economy Series									
Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-out (mm)	Colour Temp. [CRI]	Rated Life (hrs)	Material
FDM70100v0	8	620 [3000K] 650 [4000K] 650 [6500K]	78 [3000K] 81 [4000K] 81 [6500K]	90	Ø122xH41	Ø105	3000K / 4000K / 6500K [≥Ra80]	25000	Polycarbonate
FDM70200v0	13	1000 [3000K] 1050 [4000K] 1050 [6500K]	77 [3000K] 81 [4000K] 81 [6500K]	90	Ø148xH51	Ø125	3000K / 4000K / 6500K [≥Ra80]	25000	Polycarbonate

MEGAMAN® SIENALITE

FDL70200v0



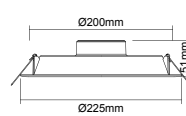
IP20 Class II



FDL70300v0



IP20 Class II



220-240V

White (WH12)

Economy Series

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-out (mm)	Colour Temp. [CRI]	Rated Life (hrs)	Material
FDL70200v0	17	1380 [3000K] 1450 [4000K] 1450 [6500K]	81 [3000K] 85 [4000K] 85 [6500K]	90	Ø172xH51	Ø145	3000K / 4000K / 6500K [≥Ra80]	25000	Polycarbonate
FDL70300v0	24	1900 [3000K] 2000 [4000K] 2000 [6500K]	79 [3000K] 83 [4000K] 83 [6500K]	90	Ø225xH51	Ø200	3000K / 4000K / 6500K [≥Ra80]	25000	Polycarbonate

MEGAMAN® PLANEX



MEGAMAN® PLANEX



MEGAMAN® PLANEX

Downlight

Ideal for any ceiling with limited depth, MEGAMAN® PLANEX has an ultra slim profile for small cabinets and furniture lighting where space is restricted. Working with LED GX53 lamps, it delivers excellent light output with up to 25,000 hours lifetime without the disadvantages of the extreme heat of halogens such as overheating, discolouration and deformation to furniture and display items.

Features

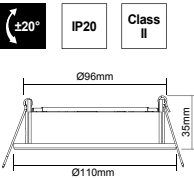
- Slim design with a recess depth of only 28mm for ultra low profile use.
- Perfect for restricted spaces as well as conventional recessed applications
- Adjustable head ($\pm 20^\circ$ tilt angle) for a subtle directional effect
- Can be built in to furniture
- End user serviceable GX53 LED lamp
- Lamp life up to 25,000 hours

Applications

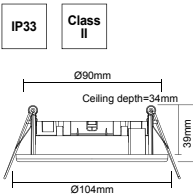
- Restricted depth recessed ceilings
 - Moodlighting in both domestic and hospitality use
 - Furniture lighting
 - Kitchen cabinets
-

MEGAMAN® PLANEX

FDS70618v0

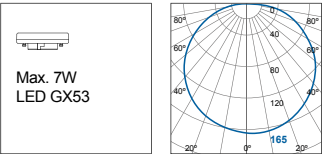


L0504RC



- Gold
(GD41)
- Nickel
(NI52)
- White
(WH12)
- Silver
(SV22)
- Black
(BK12)

Model No.	Max. Wattage (W)	Dimension (mm)	Cut-Out (mm)	Light Source	Lamp Base	Materials
FDS70618v0	7	Ø110 x H35	Ø96	LED GX53	GX53	Polycarbonate
L0504RC	9	Ø104 x H39	Ø90	LED GX53	GX53	Polycarbonate





MEGAMAN® CARLO and CARLO MINI



MEGAMAN® CARLO and CARLO MINI



MEGAMAN® CARLO and CARLO Mini

Adjustable LED downlight

MEGAMAN® CARLO is a range of recessed adjustable LED downlights that offer excellent lighting performance, and can be used to replace up to 50W metal halide fittings. Adjustable up to 45° tilting angle and 355° rotation angle, MEGAMAN® CARLO is an ultra-flexible energy saving solution for shop lighting.

Working with the TECOH® RDx LED module, MEGAMAN® CARLO delivers even light distribution which illuminates the retail space without the shortcomings of equivalent metal halide solutions. MEGAMAN® CARLO can work with the TECOH® MHx LED module to accentuate merchandising displays with low glare to ensure visual comfort.

MEGAMAN® CARLO is available with Perfect White, a new technology that intensifies and brightens the white in objects it illuminates. Especially recommended for retail lighting, Perfect White also enhances general commercial lighting applications.

MEGAMAN® CARLO is also available in a mini version which is more compact in size and ideal as a 20W or 35W metal halide replacement.

Features

- Offers excellent lighting performance of up to 3800lm
- Offers good cut-off angle of up to 40° to ensure visual comfort
- Ultra flexible with 45° tilting angle and 355° rotation angle
- Perfect White options available – a new technology that intensifies and brings whites to life
- High CRI version: Ra94 available
- More compact version available for 20W and 35W metal halide replacement
- Capable of linear dimming when working with a DALI, DSI or 1-10V dimming driver
- External driver required

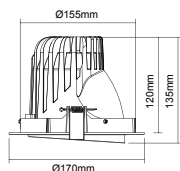


Applications

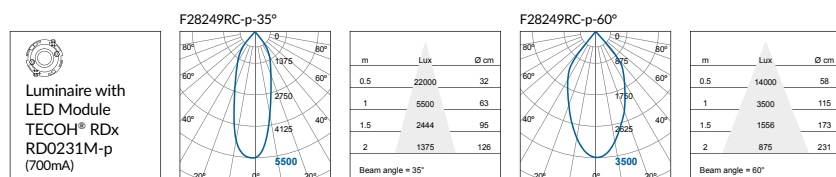
- Shops and boutiques
- Galleries and museums
- Department stores
- Exhibition booths
- Commercial buildings

MEGAMAN® CARLO

F28249RC-p



Model No.	Input Current (mA)	Nominal Voltage	Wattage ² (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Cut-Out (mm)	Max. Luminous Intensity (cd) [Beam Angle]	Colour Temp. [CRI]	Rated Life (hrs)	Dimmable	Light Source	Materials	Suggested Driver
F28249RC-p*	700	DC40-46V	31	2400 [3000K]	77 [3000K]	Ø170 x H135	Ø155	5500 [35°] 3500 [60°]	3000K / 4000K [Ra82]	50000	Dimmable ¹	TECOH® RDx RD0231M-p with input current 700mA	Metal housing	LA11053



Different reflectors options available



LA3107
35° Reflector



LA3108
60° Reflector



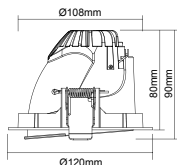
Working with **TECOH® RDx**
LED Module

* Preliminary data

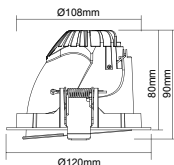
¹ Capable of linear dimming when working with DALI, DSI or 1-10V dimming driver, and the dimming performance depends on the specification of driver. Please contact us for details.² The wattage declared is the wattage of the luminaire without driver; the system wattage will be dependent on driver choice.

MEGAMAN® CARLO Mini

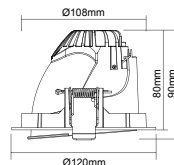
F51549RC



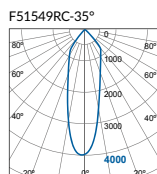
F51549RC-p



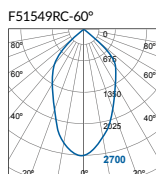
F51549RC--R9



Model No.	Input Current (mA)	Nominal Voltage	Wattage ² (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Cut-Out (mm)	Max. Luminous Intensity (cd) [Beam Angle]	Colour Temp. [CRI]	Rated Life (hrs)	Dimmable	Light Source	Materials	Suggested Driver
F51549RC	700	DC35-38.5V	25	2200 [3000K] 2400 [4000K]	88 [3000K] 96 [4000K]	Ø120 x H90	Ø108	4000 [35°] 2700 [60°]	3000K / 4000K [Ra82]	50000	Dimmable ¹	TECOH® RDx RD0231M with input current 700mA	Metal housing	LD0425x1-C700
F51549RC-p*	700	DC32-38V	17.5	1500 [3000K]	86 [3000K]	Ø120 x H90	Ø108	2000 [35°] 2100 [60°]	3000K [Ra82]	50000	Dimmable ¹	TECOH® RDx RD0231M-p with input current 700mA	Metal housing	LD0425x1-C700
F51549RC-R9	1050	DC31-37V	35	3000 [3000K] 3100 [4000K]		Ø170 x H135	Ø108	2000 [35°] 2100 [60°]	3000K [Ra97]	50000	Dimmable ¹	TECOH® RDx RD0231M-p with input current 700mA	Metal housing	LD0425x1-C700



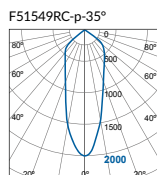
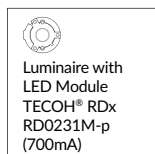
m	Lux	Ø cm
0.5	16000	32
1	4000	63
1.5	1778	95
2	1000	126



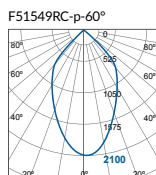
m	Lux	Ø cm
0.5	10800	58
1	2700	115
1.5	1200	173
2	675	231



Working with TECOH® RDx LED Module



m	Lux	Ø cm
0.5	12800	32
1	3200	63
1.5	1422	95
2	800	126



m	Lux	Ø cm
0.5	8400	58
1	2100	115
1.5	933	173
2	525	231

Different reflectors options available

LA3111
35° ReflectorLA3112
60° Reflector

* Preliminary data

¹ Capable of linear dimming when working with DALI, DSI or 1-10V dimming driver, and the dimming performance depends on the specification of driver. Please contact us for details.² The wattage declared is the wattage of the luminaire without driver; the system wattage will be dependent on driver choice.

MEGAMAN® CARDO



MEGAMAN® CARDO



MEGAMAN® CARDO

Adjustable LED downlight

MEGAMAN® CARDO is a range of recessed adjustable LED downlights for accent & display lighting with excellent performance, great functionality and consistency in design. The range is highly flexible with 45° tilt and 355° rotation angles to create optimal scenes in various indoor applications. In addition, the luminaire has interchangeable aluminium reflectors of 15°, 35° and 65° enhancing flexibility on site and reducing stock in the supply chain.

Features

- Recessed adjustable LED downspot for accent and display lighting without track
- Excellent lighting performance of up to 5000lm
- Good cut-off angle of up to 40° to ensure visual comfort
- Ultra-flexible with 45° tilting angle and 355° rotation angle
- High colour rendering index of >97 with MEGAMAN® Ultra RichColour option
- More compact version available for 20W and 35W metal halide replacement
- Uses an external driver with industry standard constant current level
- Compatible with a wide range of drivers available on the market
- Allows use with standard dimming drivers such as DALI, DSI or 1-10V for linear dimming
- Interchangeable aluminium reflector of 25° and 45° for flexibility on site and less stock

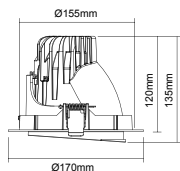


Applications

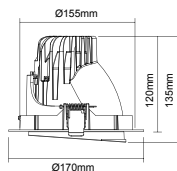
- Shops and boutiques
- Galleries and museums
- Department stores
- Exhibition booths
- Commercial buildings

MEGAMAN® CARDO

FDL70900v0-ex+015D / FDL70900v0-ex+035D /
FDL70900v0-ex+060D



FDL70900v0-ex/ru+015D / FDL70900v0-ex/ru+035D /
FDL70900v0-ex/ru+060D



DC 31-41V
SCDM
S3
-30°C
~
+40°C

White
(WH26)
Silver
(SV26)

MEGAMAN® CARDO | 3800lm

Model No.	Input Current (mA)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Max. Luminous Intensity (cd) [Beam Angle]	Beam Angle (°)	Dimension (mm)	Cut-out (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta25°C (hrs)	Material
FDL70900v0-ex+015D	1050	38	3500 [3000K] 3700 [4000K]	92 [3000K] 92 [4000K]	30000 [15°]	15	Ø170 x H135	Ø155	3000K / 4000K [≥Ra80]	50000	Aluminium
FDL70900v0-ex+035D	1050	38	3600 [3000K] 3800 [4000K]	95 [3000K] 100 [4000K]	7500 [35°]	35	Ø170 x H135	Ø155	3000K / 4000K [≥Ra80]	50000	Aluminium
FDL70900v0-ex+060D	1050	38	3600 [3000K] 3800 [4000K]	95 [3000K] 100 [4000K]	4500 [60°]	60	Ø170 x H135	Ø155	3000K / 4000K [≥Ra80]	50000	Aluminium
FDL70900v0-ex/ru+015D	1050	38	2650 [3000K] 2850 [4000K]	70 [3000K] 75 [4000K]	23000 [15°]	15	Ø170 x H135	Ø155	3000K / 4000K [Ra97]	50000	Aluminium
FDL70900v0-ex/ru+035D	1050	38	2700 [3000K] 2900 [4000K]	71 [3000K] 70 [4000K]	5700 [35°]	35	Ø170 x H135	Ø155	3000K / 4000K [Ra97]	50000	Aluminium
FDL70900v0-ex/ru+060D	1050	38	2700 [3000K] 2900 [4000K]	71 [3000K] 76 [4000K]	3400 [60°]	60	Ø170 x H135	Ø155	3000K / 4000K [Ra97]	50000	Aluminium

LED Driver

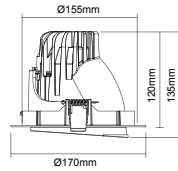
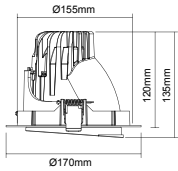


LD0436x1-C1050

MEGAMAN® CARDO

FDL70900v1-ex+015D / FDL70900v1-ex+035D /
FDL70900v1-ex+060D

FDL70900v1-ex/ru+015D / FDL70900v1-ex/ru+035D /
FDL70900v1-ex/ru+060D



DC 31-41V
SCDM
S3
-30°C
~
+40°C

White (WH26)
Silver (SV26)

MEGAMAN® CARDO | 5000lm

Model No.	Input Current (mA)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Max. Luminous Intensity (cd) [Beam Angle]	Beam Angle (°)	Dimension (mm)	Cut-out (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta25°C (hrs)	Material
FDL70900v1-ex+015D	1400	50	4700 [3000K] 4900 [4000K]	94 [3000K] 98 [4000K]	44000 [15°]	15	Ø170 x H135	Ø155	3000K / 4000K [≥Ra80]	50000	Aluminium
FDL70900v1-ex+035D	1400	50	4800 [3000K] 5000 [4000K]	96 [3000K] 100 [4000K]	13000 [35°]	35	Ø170 x H135	Ø155	3000K / 4000K [≥Ra80]	50000	Aluminium
FDL70900v1-ex+060D	1400	50	4800 [3000K] 5000 [4000K]	96 [3000K] 100 [4000K]	6600 [60°]	60	Ø170 x H135	Ø155	3000K / 4000K [≥Ra80]	50000	Aluminium
FDL70900v1-ex/ru+015D Ra97	1400	50	3600 [3000K] 3800 [4000K]	72 [3000K] 76 [4000K]	34000 [15°]	15	Ø170 x H135	Ø155	3000K / 4000K [Ra97]	50000	Aluminium
FDL70900v1-ex/ru+035D Ra97	1400	50	3700 [3000K] 3900 [4000K]	74 [3000K] 78 [4000K]	10100 [35°]	35	Ø170 x H135	Ø155	3000K / 4000K [Ra97]	50000	Aluminium
FDL70900v1-ex/ru+060D Ra97	1400	50	3700 [3000K] 3900 [4000K]	74 [3000K] 78 [4000K]	5100 [60°]	60	Ø170 x H135	Ø155	3000K / 4000K [Ra97]	50000	Aluminium

Accessory



LA11023
Non-dimmable driver

MEGAMAN® RICO



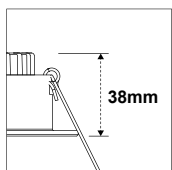
MEGAMAN® RICO

Ultra slim LED downlight

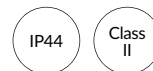
MEGAMAN® RICO, the ultra slim LED downlight is ideal for any ceiling recess with a limited depth; it is also suitable for small cabinets and furniture lighting where space is severely restricted. The MEGAMAN® RICO provides a perfect alternative to CFL luminaires (1x26W). It operates with industry standard constant current, which is compatible with a wide range of drivers available on the market. These luminaires can also be dimmed when working with standard dimming drivers such as DALI, DSI or 1-10V.

Features

- Ideal for any ceiling recess with limited path
- Suitable for small cabinets and furniture lighting where space is restricted
- Uses an external driver with industry standard constant current levels
- Compatible with a wide range of drivers available on the market
- Allows use with standard dimming drivers such as DALI, DSI or 1-10V for linear dimming
- IP44 protection enables the use in humid and damp areas such as bathrooms or kitchens
- Minimizes storage and transportation cost



Designed with a height of only 38mm, making it ideal for limited recess depths



Applications

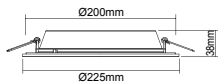
- Shops
- Offices
- Hotels
- Corridors
- Shopping malls
- Workstations
- Study rooms
- Display shelves
- Kitchen cabinets and counters
- Bathrooms (with IP44 version)
- Wardrobes

MEGAMAN® RICO

F29900RCv1



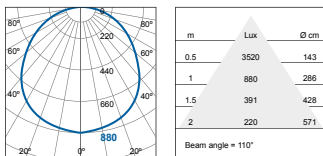
IP44 Class II



White (WH26) Silver (SV26)

Model No.	Input Current (mA)	Nominal Voltage	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Cut-Out (mm)	Max. Luminous Intensity (cd) [Beam Angle]	Colour Temp. [CRI]	Rated Life (hrs)	Dimmable	Materials	Suggested Driver
F29900RCv1	700	DC34-40V	25	2000	80	Ø225 x H38	Ø200	880 [110°]	2800K / 4000K / 6500K [Ra80]	25000	Dimmable ¹	Metal housing with plastic diffuser	LD0425x1-C700

F29900RCv1



List of suggested MEGAMAN® LED converter

Driver Model No.	Input Voltage (V)	Output Current (mA)	Output Voltage	Lamp Wattage (W)	Power Factor (λ)	Dimmable
LD0425x1-C700	220-240	700	DC30-43V	25	>0.9	Non-dimmable

External driver with output current and nominal voltage corresponding to the input current and nominal voltage of the luminaire is required.
For example, the external driver with output current of 700mA and nominal voltage of DC30-43V is required for F29900RCv1.

¹ Capable of linear dimming when working with DALI, DSI or 1-10V dimming driver, and the dimming performance depends on the specification of driver.
Please contact us for details.

MEGAMAN® RICO HR



MEGAMAN® RICO HR



MEGAMAN® RICO HR

Ultra slim LED downlight



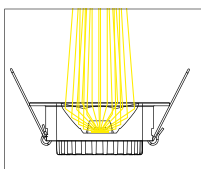
In response to the market needs for ultra slim LED downlight, MEGAMAN® RICO HR is the perfect solution for the ceiling recess with limited depth. MEGAMAN® RICO HR is designed for optimal lighting performance, great functionality and consistency in design. The cut-out is 68 mm, as well as the standard 36° beam angle and adjustable 25° tilting angle. The luminaire is suitable for various kinds of applications.

Features:

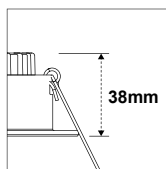
- Ideal for any ceiling recess with limited path
- Suitable for small cabinets and furniture lighting where space is restricted
- Uses an external driver with industry standard constant current levels
- Compatible with a wide range of drivers available on the market
- Allows use with standard dimming drivers such as DALI, DSL or 1-10V for linear dimming
- IP44 protection enables the use in humid and damp areas such as bathrooms or kitchens
- Minimizes storage and transportation costs

Applications

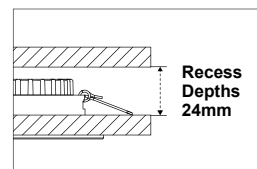
- Shops
- Offices
- Hotels
- Corridors
- Shopping malls
- Workstations
- Study rooms
- Display shelves
- Kitchen cabinets and counters
- Bathrooms
- Wardrobes



The latest MEGAMAN® Hybrid Reflector technology delivers excellent optical efficacy, better beam control and less spill light



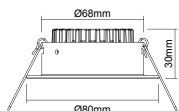
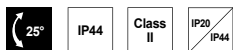
Designed with a height of only 38mm, making it ideal for limited recess depths



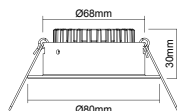
Ultra-Low Profile version together with extra small drivers are now available, perfect for limited recess depths with only 24mm, such as furniture and cabinet lightings

MEGAMAN® RICO HR

F53500RC / F53500RCv2





F53500RC-w/ru

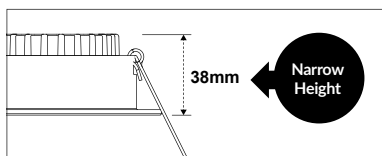


DC16-21V

White (WH26) Silver (SV26) Nickel (NI53)

Standard Version

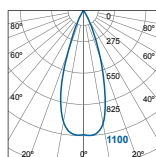
Model No.	Input Current (mA)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Materials	Suggested Driver
F53500RC	350	6.5	500	77	36	1100	Ø80 x H30	Ø68	2800K / 4000K [Ra80]	25000	Dimmable ²	Metal housing with hybrid reflector	LD0509x1d-C350
F53500RC-w/ru  	350	6.5	500	77	36	1100	Ø80 x H30	Ø68	3000K-1800K [Ra80]	50000	Dimmable ² (3000K-1800K)	Metal housing with hybrid reflector	LD0509x1d-C350
F53500RCv2	500	9	900	100	36	2400	Ø80 x H30	Ø68	2800K / 4000K [Ra80]	50000 ¹	Dimmable ²	Metal housing with hybrid reflector	LD0512x1d-C500



U-DIM™

Compatible with BOTH Leading-edge and Trailing-edge Conventional Dimmers for 100-5% Linear Dimming when MEGAMAN® RICO HR working with MEGAMAN® drivers LD0509x1d-C350 and LD0512x1d-C500

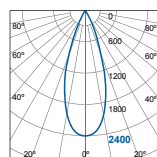
F53500RC / F53500RC-w



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

Beam angle = 36°


F53500RCv2



m	Lux	Ø cm
0.5	9600	32
1	2400	65
1.5	1067	97
2	600	130

Beam angle = 36°

External driver with output current and nominal voltage corresponding to the input current and nominal voltage of the luminaire is required. For example, the external driver with output current of 350mA and nominal voltage of DC16-21V is required for F53500RC.

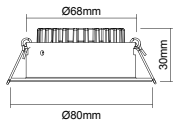
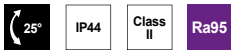
 Integrated LED luminaire

¹ The rated life of F53500RC-w/ru and F53500RCv2 is 50,000hrs at L80B50@Ta25°C and L70B50@Ta25°C respectively.

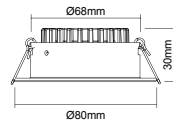
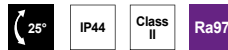
² Capable of linear dimming when working with DALI, DSI or 1-10V dimming drivers, and the dimming performance depends on the specification of driver.

MEGAMAN® RICO HR

F62300RC-r9



F62300RC-w/ru

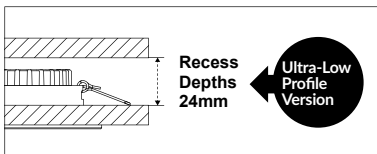


DC15-19V

White (WH26) Silver (SV26) Nickel (NI53)

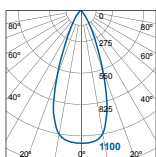
Ultra-Low Profile Version

Model No.	Input Current (mA)	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Cut-Out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Dimmable	Materials	Suggested Driver
F62300RC-r9 Ra95	350	6.5	430	66	36	1100	Ø80 x H30	Ø68	2800K / 4000K [>Ra95]	25000	Dimmable ²	Metal housing with hybrid reflector	LD0509x1d-C350
F62300RCv1-r9 Ra95	500	9	700	78	36	1650	Ø80 x H30	Ø68	2800K / 4000K [>Ra95]	25000	Dimmable ²	Metal housing with hybrid reflector	LD0509x1d-C350
F62300RC-w/ru 	350	6	500	83	36	1100	Ø80 x H30	Ø68	3000K- 1800K [>Ra97]	50000	Dimmable ² (2800K-1800K)	Metal housing with hybrid reflector	LD0509x1d-C350



U-DIM™
Compatible with BOTH Leading-edge and Trailing-edge Conventional Dimmers for 100-5% Linear Dimming when MEGAMAN® RICO HR working with MEGAMAN® drivers LD0509x1d-C350 and LD0512x1d-C500

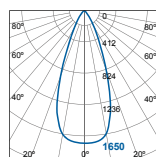
F62300RC-r9



m	Lux	Ø cm
0.5	3800	32
1	1100	65
1.5	422	97
2	238	130

Beam angle = 36°

F62300RCv1-r9



m	Lux	Ø cm
0.5	3800	32
1	1100	65
1.5	422	97
2	238	130

Beam angle = 36°

External driver with output current and nominal voltage corresponding to the input current and nominal voltage of the luminaire is required. For example, the external driver with output current of 350mA and nominal voltage of DC16-21V is required for F53500RC.

Integrated LED luminaire

¹ The rated life of F53500RC-w/ru and F62300RCv2 is 50000hrs at L70 B50 at Ta25°C

² Capable of linear dimming when working with DALI, DSI or 1-10V dimming drivers, and the dimming performance depends on the specification of driver.

MEGAMAN® ANNA



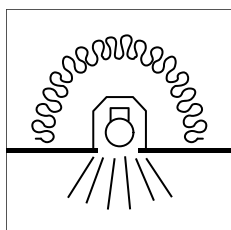
MEGAMAN® ANNA

Integrated LED downlight

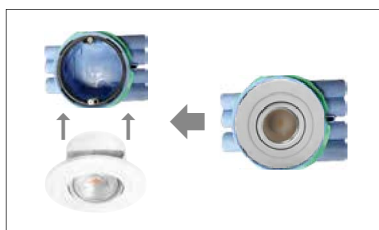
MEGAMAN® ANNA is a cost effective integrated LED downlight solution that is an ideal replacement for halogen PAR16 and GX53 downlights. In response to the market need for high-quality light effects, RichColour and U-dim options are also available. MEGAMAN® ANNA's compact design, with built-in driver, can be used with a prefabricated junction box for easy installation. Furthermore, due to MEGAMAN® ANNA's excellent thermal management it is suitable for mounting directly in thermally insulated ceiling recesses.

Features

- Compatible to install with prefabricated junction box and recess mounting
- MEGAMAN® ANNA can be covered by thermal insulation materials for recessed installation.
- With MEGAMAN® U-DIM™ feature, which are compatible with both lead-edge and trailing-edge conventional dimmers and enhanced dimming range of 100% to 5%
- Magnetic for mounting cover, offers flexibility to change different trim, minimize inventory and transportation costs
- Options available in RichColour



Can be covered by thermal insulation materials for recessed installation



Compatible with prefabricated ABB AU67 junction box



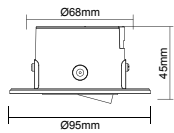
Applications

- Retails
- Hotels
- Restaurants
- Office

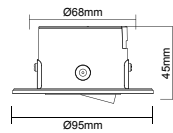


MEGAMAN® ANNA

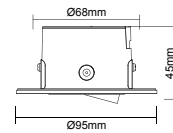
FDS70000v1



FDS70000v0-dm



FDS70000v0-dm/r9

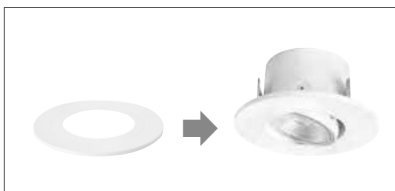


220-240V

Silver (SV26)
 White (WH26)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Cut-out (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FDS70000v1	5	500	100	36	Ø95 x H45	Ø68	2800K / 4000K [>Ra80]	35000	>0.7	Polycarbonate
FDS70000v0-dm	5	420	84	36	Ø95 x H45	Ø68	2800K / 4000K [>Ra80]	35000	>0.7	Polycarbonate
FDS70000v0-dm/r9	5	350	70	36	Ø95 x H45	Ø68	2800K / 4000K [>Ra90]	35000	>0.7	Polycarbonate

Accessory



LA10052
Circular Cover



LA10053
Square Cover

MEGAMAN® ABBY



MEGAMAN® ABBY

Fixed and wall wash pin-hole downlights

MEGAMAN® ABBY includes both fixed pin-hole and wall wash with 30° titling angle. With the innovative full recessed design with black baffle, it offers dark light with no glare for visual comfort. Featuring the TECOH® THx modular system, it offers different combinations of lighting optics and excellent lighting performance. The TECOH® THx comes with the Dim to Warm technology and U-DIM™ technology, enabling it available for various applications and requirements.

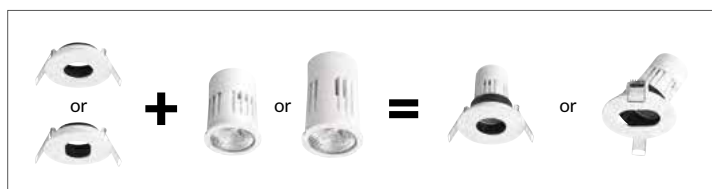
Features

- Works with serviceable TECOH® THx LED light engine, delivering excellent lighting performance for the replacement of traditional halogen 50W MR16 and PAR16 pin-hole downlights
- Fixed pin-hole design for accent lighting and wall wash with 30° tilt angle
- Full recessed design with black baffle provides dark lighter effect with no glare, ideal for dramatic accent lighting
- TECOH® THx is available in Dim to Warm, linear dimming and *INGENIUM*® BLU Gen 2 versions for halogen MR16 and PAR16 pin-hole downlight replacements
- LED light engine TECOH® THx TH0205d and TH0205w come with U-DIM™ technology, which are compatible with the widest possible range of existing dimmers (both leading-edge and trailing-edge conventional dimmers) and provide an enhanced dimming range of 100% to 5%
- For easy stock management, different colour trims are integrated into the fitting. The trim colour of the TECOH® THx can be hidden and the whole fitting remains in a unified colour



Applications

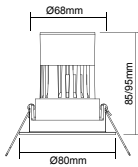
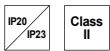
- Retail
- Window display
- Galleries
- Museums
- Hotels
- Corridors



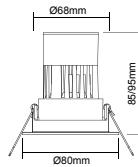
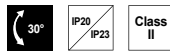
Designed with modular heads and interchangeable trim to cater for different combinations of pin-hole and wall wash features, and easy stock management

MEGAMAN® ABBY

F54952RC



F55052RC



Fitting

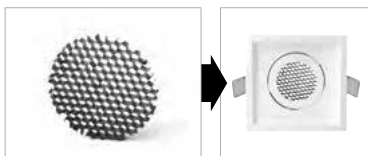
Model No.	Dimension (mm)	Height (mm)	Cut-Out (mm)	Materials
F54952RC	80	85 (TH0205) / 95 (TH0307 / TH0309)	Ø68	Die cast aluminium
F55052RC	80	85 (TH0205) / 95 (TH0307 / TH0309)	Ø68	Die cast aluminium



Specification of MEGAMAN® LED module TECOH® THx

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Luminous Flux in 90° Cone (lm)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life (hrs)	Dimmable	Power Factor (λ)	Energy Label
TH0205-24D	7.5	500	67	460	24	3000	Ø50 x H65	2800K / 4000K [>Ra80]	25000	N/A	>0.7	A+
TH0205-36D	7.5	500	67	460	36	1100	Ø50 x H65	2800K / 4000K [>Ra80]	25000	N/A	>0.7	A+
TH0205d-24D-U	8	500	63	460	24	3000	Ø50 x H65	2800K / 4000K [>Ra80]	25000	100-5%	>0.9	A
TH0205d-36D-U	8	500	63	460	36	1100	Ø50 x H65	2800K / 4000K [>Ra80]	25000	100-5%	>0.9	A
TH0205w-36D-U	8	500	63	460	36	1100	Ø50 x H65	2800K - 1800K [>Ra80]	25000	100-5% (2800K - 1800K)	>0.9	A
TH0307-24D	8.5	700	82	640	24	4000	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+
TH0307-36D	8.5	700	82	640	36	1500	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+
TH0309-24D	10.5	900	86	830	24	5000	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+
TH0309-36D	10.5	900	86	830	36	1900	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+

Accessory



LA10024

Honeycomb louver for better glare control (optional)



Working with
TECOH® THx
LED Module

When MEGAMAN® ABBY works with TECOH® THx LED light engines, it is a Class II luminaire.
TH0205d-24D, TH0205d-36D and TH0205w-36D with U-DIM™ feature are compatible with both leading-edge and trailing-edge dimmers for 100-5% linear dimming.

MEGAMAN® ZEKI



MEGAMAN® ZEKI



MEGAMAN® ZEKI

Multi-head gimbal luminaire

MEGAMAN® ZEKI is a multi-head gimbal luminaire designed to replace traditional metal halide and halogen multi-head gimbal. Featuring the TECOH® THx modular system, it offers different combinations of lighting optics and performance. The TECOH® THx comes with the Dim to Warm technology and U-DIM™ technology, enabling it available for various applications and requirements.

Features

- Works with serviceable TECOH® THx LED light engine and module, delivering excellent lighting performance for the replacement of traditional 50W metal halide and 100W halogen AR111, 50W halogen MR16 and PAR16 multi-head gimbal
- The gimbal construction provides multi-directional tilting
- Modular system enables different combinations of lighting optics and performance
- For easy stock management, different colour trims for TECOH® THx (Ø111mm) are available. User can simply hide the trim colour of the TECOH® THx module by selecting the same colour trim for a unified colour of the whole fitting. For MEGAMAN® ZEKI Ø50, the colour trim is integrated into the fitting
- LED light engine TECOH® THx (Ø50mm) is available with Dim to Warm, linear dimming and *INGENIUM*® BLU Gen 2 technologies for halogen MR16 and PAR16 multi-head gimbal replacement
- LED light engine TECOH® THx TH0205d and TH0205w come with U-DIM™ technology, making them compatible with the widest possible range of existing dimmers (both leading-edge and trailing-edge conventional dimmers) and enhanced dimming range of 100% to 5%
- Trim, trimless and surface mounted designs available for different interior design and applications

IP23

U-DIM

Dim to WARM

Applications

- Retail,
- Window display
- Galleries
- Museums

MEGAMAN® ZEKI Ø111



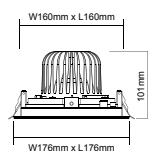
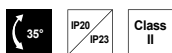
MEGAMAN® ZEKI Ø50



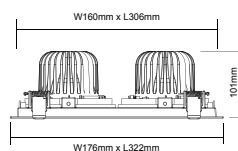
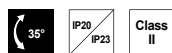
Modular heads designed with 1x, 2x and 3x heads with different optics available to cater for different combinations for flexible lighting design and easy stock management

MEGAMAN® ZEKI Ø111

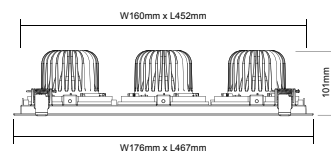
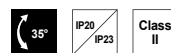
F56353RC



F56453RC



F56553RC

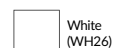


ZEKI Ø111 Fitting

Model No.	Dimension (mm)	Height (mm)	Cut-Out (mm)	Materials
F56353RC	L176 x W176	101 (TH0520 / TH0532)	L160 x W160	Die cast aluminium
F56453RC	L322 x W176	101 (TH0520 / TH0532)	L306 x W160	Die cast aluminium
F56553RC	L467 x W176	101 (TH0520 / TH0532)	L452 x W160	Die cast aluminium

Specification of MEGAMAN® LED module TECOH® THx

Model No.	Input Current (mA)	Nominal Voltage	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Luminous Flux in 90° Cone (lm)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B10 and Tc 85°C (hrs)	Energy Label	Suggested Driver
TH0520-15D	700	DC34-39V	25	2000	80	1840	15	17800	Ø111 x H92	3000K / 4000K [>Ra80]	50000	A	LD0425x1-C700
TH0520-24D	700	DC34-39V	25	2000	80	1840	24	10200	Ø111 x H92	3000K / 4000K [>Ra80]	50000	A	LD0425x1-C700
TH0520-45D	700	DC34-39V	25	2000	80	1840	45	4450	Ø111 x H92	3000K / 4000K [>Ra80]	50000	A	LD0425x1-C700
TH0532-24D	1050	DC30-36V	35	3200	91	2940	24	16300	Ø111 x H92	3000K / 4000K [>Ra80]	50000	A+	LD0436x1-C1050
TH0532-45D	1050	DC30-36V	35	3200	91	2940	45	7100	Ø111 x H92	3000K / 4000K [>Ra80]	50000	A+	LD0436x1-C1050
TH0532-60D	1050	DC30-36V	35	3200	91	2940	60	4000	Ø111 x H92	3000K / 4000K [>Ra80]	50000	A+	LD0436x1-C1050



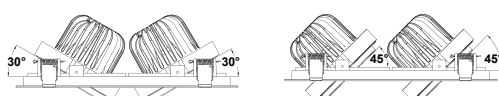
Accessory



LA10023
Colour trim for TECOH® THx
TH0520 and TH0532 (optional)

When MEGAMAN® ZEKI Ø111 works with TECOH® THx LED modules, it is a Class II luminaire.
A dimming feature is available and performance can be enhanced by driver choice, please contact us for details.

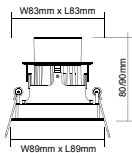
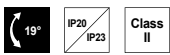
Tilting angle of F56453RC and F56553RC



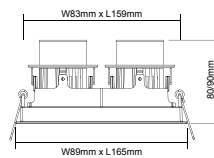
**Working with
TECOH® THx
LED Module**

MEGAMAN® ZEKI Ø50

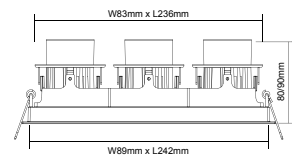
F55752RC



F55852RC



F55952RC

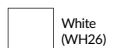


ZEKI Ø50 Fitting

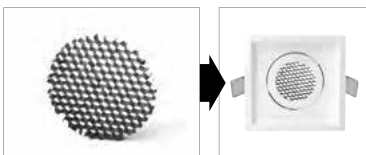
Model No.	Dimension (mm)	Height (mm)	Cut-Out (mm)	Materials
F55752RC	L89 x W89	80 (TH0205) / 90 (TH0307 / TH0309)	L83 x W83	Die cast aluminium
F55852RC	L165 x W89	80 (TH0205) / 90 (TH0307 / TH0309)	L159 x W83	Die cast aluminium
F55952RC	L242 x W89	80 (TH0205) / 90 (TH0307 / TH0309)	L236 x W83	Die cast aluminium

Specification of MEGAMAN® LED module TECOH® THx

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Luminous Flux in 90° Cone (lm)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life (hrs)	Dimmable	Power Factor (λ)	Energy Label
TH0205-24D	7.5	500	67	460	24	3000	Ø50 x H65	2800K / 4000K [>Ra80]	25000	N/A	>0.7	A+
TH0205-36D	7.5	500	67	460	36	1100	Ø50 x H65	2800K / 4000K [>Ra80]	25000	N/A	>0.7	A+
TH0205d-24D-U	8	500	63	460	24	3000	Ø50 x H65	2800K / 4000K [>Ra80]	25000	100-5%	>0.9	A
TH0205d-36D-U	8	500	63	460	36	1100	Ø50 x H65	2800K / 4000K [>Ra80]	25000	100-5%	>0.9	A
TH0205w-36D-U	8	500	63	460	36	1100	Ø50 x H65	2800K - 1800K [>Ra80]	25000	100-5% (2800K - 1800K)	>0.9	A
TH0307-24D	8.5	700	82	640	24	4000	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+
TH0307-36D	8.5	700	82	640	36	1500	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+
TH0309-24D	10.5	900	86	830	24	5000	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+
TH0309-36D	10.5	900	86	830	36	1900	Ø50 x H75	2800K / 4000K [>Ra80]	25000	N/A	>0.9	A+



Accessory



LA10024

Honeycomb louver for better glare control (optional)



Working with
TECOH® THx
LED Module

When MEGAMAN® ZEKI Ø50 works with TECOH® THx LED light engines, it is a Class II luminaire.
TH0205d-24D, TH0205d-36D and TH0205w-36D with U-DIM™ feature are compatible with both leading-edge and trailing-edge dimmers for 100-5% linear dimming.

MEGAMAN® TEGO



MEGAMAN® TEGO

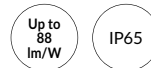
Fire Rated LED Downlight

MEGAMAN® TEGO provides fire protection that protects the integrity of the ceiling and prevents the spread of fire and smoke into the room above. MEGAMAN TEGO is compliant to BS476 Part 21 and is designed to withstand fire for up to 30, 60 and 90 minutes.

With features of easy installation and stock management, this series provides flexibility and convenience at the same time with thoughtful design.

Features

- Fully compliant to the building regulations requirement "Approved Document B" and fire tested in accordance with BS476-21
- Fully Fire-rated for 30, 60 and 90 minute ceilings
- IP65 version allows to use in bathroom
- Integrated version enhance easy installation and wiring
- Unique toolless wiring block and push-in terminal ensure easy installation
- Loop in/Loop out feature enable one to one quick connection
- Robust spring clip
- Triac dimmable as standard
- Up to 88 lm/W
- 3000K and 4000K colour temperature switching in-situ
- Interchangeable bezel with 3 finishing (White, Chrome & Brush Nickel) enable flexibility of stock

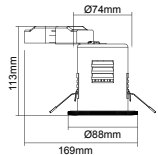
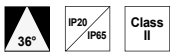


Applications

- Restaurants
- Hotels
- Offices
- Kitchens
- Corridors

MEGAMAN® TEGO

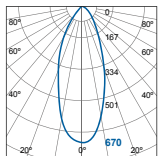
FDS71900v0-dm/sc
FDS72000v0-dm/sc
FDS72100v0-dm/sc



White
(WH12)

Model No.	Wattage (W)	Luminous Flux (lm)	Beam Angle (°)	Dimension (mm)	Cut-Out (mm)	Colour Temp* (CCT Switching)	CRI	Rated Life at L70 B50 at Ta25°C (hrs)	IP Rating	Dimmable *Triac	Materials	Remarks
FDS71900v0-dm/sc	5	420	36	Ø85 x H70	Ø73	3000K/ 4000K	≥80	30,000	IP65	100-10%	Steel + Plastic	Fixed
FDS72000v0-dm/sc	5	420	36	Ø85 x H70	Ø73	3000K/ 4000K	≥80	30,000	IP20	100-10%	Steel + Plastic	Adjustable
FDS72100v0-dm/sc	7.5	630	36	Ø85 x H70	Ø73	3000K/ 4000K	≥80	30,000	IP65	100-10%	Steel + Plastic	Fixed

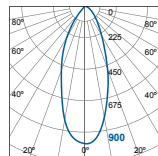
FDS71900v0-dm/sc
FDS72000v0-dm/sc



m	Lux	Ø cm
0.5	2680	32
1	670	65
1.5	298	97
2	168	130

Beam angle = 36°

FDS72100v0-dm/sc



m	Lux	Ø cm
0.5	3600	32
1	900	65
1.5	400	97
2	225	130

Beam angle = 36°

Accessory



LA10130/CH
Bezel in CH
(Fixed)



LA10130/BN
Bezel in BN
(Fixed)



LA10131/CH
Bezel in CH
(Adjustable)



LA10131/BN
Bezel in BN
(Adjustable)



MEGAMAN® SIRA



MEGAMAN® SIRA

Downlight

MEGAMAN® SIRA is designed with a metal housing 'can' that allows you to cover the luminaire with thermal insulating material. Its compact size also makes it ideal for ceiling recesses with limited depth. The SIRA has a flexible cord between the luminaire and terminal block to facilitate easy installation.

MEGAMAN® SIRA is designed to work with LED PAR16 reflectors to provide excellent light quality for a variety of different applications.

Features

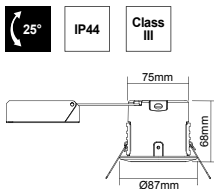
- Designed specifically for the LED PAR16 reflector
- Ideal for ceiling recesses with limited depth
- Adjustable tilting angle of 25°
- Flexible cord between luminaire and terminal block that facilitates easy installation
- External casing allows use under thermal ceiling insulation

Applications

- Conference rooms
 - Shops
 - Restaurants
 - Hotels
 - Offices
 - Corridors
-

MEGAMAN® SIRA

F52517RC

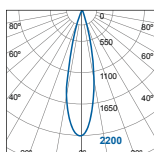


Model No.	Max. Wattage (W)	Dimension (mm)	Cut-Out (mm)	Light Source	Lamp Base	Materials
F52517RC	6	Ø87 x H68	Ø75	LED PAR16	GU10	Steel body

Accessory



LA5113
3-Way
Single/Parallel push-in type



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

Beam angle = 24°

MEGAMAN® PALMLITE



MEGAMAN® PALMLITE

Downlight

With the ultra slim design, MEGAMAN® PALMLITE is designed for LED GX53 to offer up to 25,000 hours lifetime for slim surface mounted and conventional recessed applications.

MEGAMAN® PALMLITE eliminates problems associated with halogen lamps, where heat emanating from the lamps can cause damage to furniture and display items. Interchangeable circular rings are available to allow for matching with different furniture colours and finishes.

Features

- MEGAMAN® PALMLITE is designed to work with LED GX53 for slim surface mounted and conventional recessed applications
- Integral cabinet lighting with GX53 lamp holder
- Ultra slim design: the luminaire height is only 18mm
- Eliminates problems of heat damage to furniture and display items
- Interchangeable circular rings for matching with furniture and decoration
- Has options for different types of supply terminations

Applications

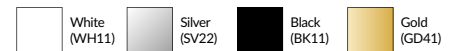
- Cabinets
 - Shelves
 - Workstations
 - Showcase displays
-

MEGAMAN® PALMLITE

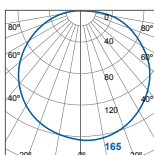
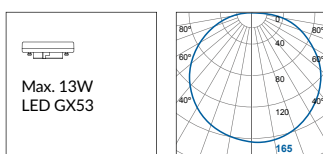
L0501CB



IP20 Class II



Model No.	Max. Wattage (W)	Dimension (mm)	Light Source	Lamp Base	Materials
L0501CB	13	Ø83 x Max. H39	LED GX53	GX53	Polycarbonate



MEGAMAN® SAGE



MEGAMAN® SAGE

LED Downlight

MEGAMAN® SAGE is an exquisite indoor downlight intended for installation on ceiling. With its ultra-slim design, the luminaire presents a modern look with seamless sophistication and good lighting performance. The aluminum die-cast has a recess depth of only 21mm, suitable for ceilings that have shallow voids, offering extremely low profile usage. With its sleek profile, MEGAMAN® SAGE provides ultimate flexibility.

MEGAMAN® SAGE with surface mount design also offers a similar look compared to its recessed version, also offering an unobtrusive lighting solution.

Features

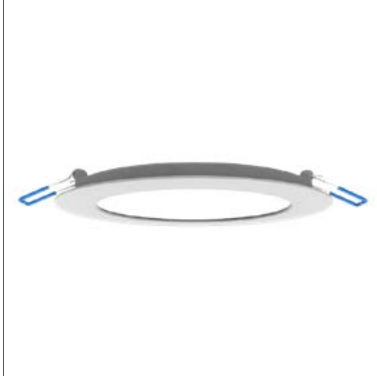
- Quick mounting with mount brackets
- No additional housing required
- Excellent lighting performance achieved by side-lit light guide technology
- Round and square options to be aesthetically pleasing
- Recessed and surface-mount options available for various applications
- Life time up to 35,000 hours

Applications

- Retail
 - Hotels
 - Restaurants
 - Offices
 - Kitchens
-

MEGAMAN® SAGE

FDM70800v0-ex / FDM70900v0-ex
FDL72000v0-ex / FDL72100v0-ex
FDL72200v0-ex



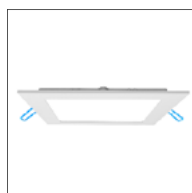
220-240V IP20

White (WH21)

Inch	Model No.	mA	Nominal Voltage	Wattage (W)	Lumen (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Cut-out (mm)	Colour Temp*	Materials
Recessed										
4"	FDM70800v0-ex	105	DC42-48V	6	480	80	Ø120 x H21	Ø110	3000K / 4000K / 6500K	Die cast aluminum
5"	FDM70900v0-ex	170	DC42-48V	9	720	80	Ø145 x H21	Ø130	3000K / 4000K / 6500K	Die cast aluminum
6"	FDL72000v0-ex	200	DC56-64V	15	1200	80	Ø170 x H21	Ø160	3000K / 4000K / 6500K	Die cast aluminum
8"	FDL72100v0-ex	300	DC56-64V	22	1800	82	Ø220 x H21	Ø210	3000K / 4000K / 6500K	Die cast aluminum
6"	FDL72200v0-ex	200	DC56-64V	15	1200	80	L170 x W170 x H21	155x155	3000K / 4000K / 6500K	Die cast aluminum
Surface mounted										
6"	FDL72300v0-ex	200	DC56-64V	15	1200	80	Ø170 x H32	Surface mounted	3000K / 4000K / 6500K	Die cast aluminum
8"	FDL72400v0-ex	300	DC56-64V	22	1800	82	Ø220 x H32	Surface mounted	3000K / 4000K / 6500K	Die cast aluminum
6"	FDL72500v0-ex	200	DC56-64V	15	1200	80	L170 x W170 x H32	Surface mounted	3000K / 4000K / 6500K	Die cast aluminum



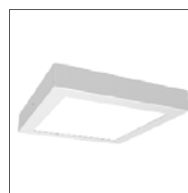
Round
(Recessed)



Square
(Recessed)



Round
(Surface Mounted)



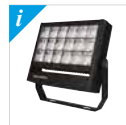
Square
(Surface Mounted)



OUTDOOR LIGHTING/ Floodlight



MEGAMAN®
TOTT



MEGAMAN®
ENSIO



MEGAMAN®
VOSS

MEGAMAN® TOTT



MEGAMAN® TOTT



MEGAMAN® TOTT

Outdoor integrated LED floodlight

MEGAMAN® TOTT is a high versatile outdoor floodlight product range and designed to meet diverse application requirements. The integrated LED product range covers several lumen packages and offers a cost competitive solution. Equipped with a u-shaped bracket, the luminaire can be rotated freely for optimum adjustment (up to $\pm 160^\circ$) for lighting all kinds of situations. The strong polycarbonate rust-free housing with the IP65 and IK08 ratings allow it to perform excellently in outdoor environments. The smart series within the range also offers a PIR motion sensor for energy saving and safety consideration.

Features

- Integrated LED with built-in driver, four different sizes (small, medium, large and extra large) with different lumen packages for various application
- Durable water and vandal resistant construction with IP66 and IK08 rating
- Adjustable arm for flexible tilting
- Offers powerful and uniform floodlight illumination in compact profile
- PIR sensor version available for energy savings
- Slim and extra light weight
- Rust-free finish



Applications

- Signages
- Billboards
- Gate areas
- Pillar facades



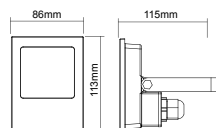
PIR Sensor

Features

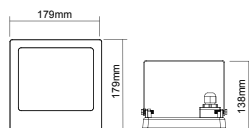
- Equipped with a PIR sensor for energy saving and safety reasons
- The light automatically switches on/off when it detects motion
- IP65 sealed construction for excellent performance in outdoor environments
- Adjustable bracket allows flexible titling
- Energy saving integrated LED with diffuser for high quality light output without hot spots
- Competitive solution ideally suited to the wholesale and DIY sales channels

MEGAMAN® TOTT

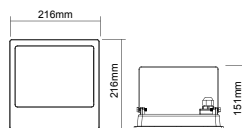
FFL70300v0



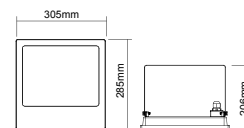
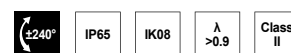
FFL70200v0



FFL70400v0



FFL70500v0

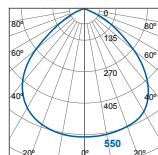


220-240V

White (WH12) Black (BK23)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70, B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FFL70300v0	9.5	900	95	100	W86 x L113 x H115	3000K / 4000K / 6500K [>Ra80]	50000	>0.9	Polycarbonate
FFL70200v0	24	2300	96	100	W179 x L179 x H138	3000K / 4000K / 6500K [>Ra80]	50000	>0.9	Polycarbonate
FFL70400v0	45	4200	93	100	W216 x L216 x H151	3000K / 4000K / 6500K [>Ra80]	50000	>0.9	Polycarbonate
FFL70500v0	85	10000	118	100	W285 x L305 x H206	3000K / 4000K / 6500K [>Ra80]	50000	>0.9	Polycarbonate

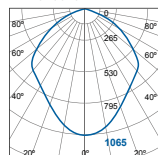
FFL70300v0



m	Lux	Ø cm
0.5	2200	119
1	550	238
1.5	244	358
2	138	477

Beam angle = 100°

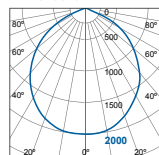
FFL70200v0



m	Lux	Ø cm
0.5	4260	119
1	1065	238
1.5	473	358
2	266	477

Beam angle = 100°

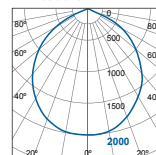
FFL70400v0



m	Lux	Ø cm
0.5	8000	119
1	2000	238
1.5	889	358
2	500	477

Beam angle = 100°

FFL70500v0



m	Lux	Ø cm
0.5	8000	119
1	2000	238
1.5	889	358
2	500	477

Beam angle = 100°

Accessory



LA10038
Working stand for TOTT S



LA10039
Working stand for TOTT M



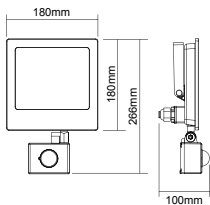
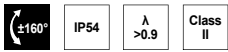
LA10040
Working stand for TOTT XL



LA10050
Extension arm

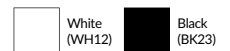
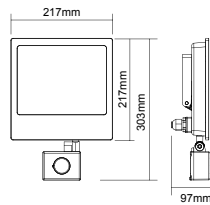
MEGAMAN® TOTT

FFL70200v0-ps



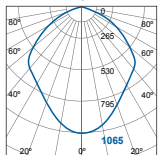
220-240V

FFL70400v0-ps



Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70, B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FFL70200v0-ps	34.5	2300	94	100	W180x L266 x H100	3000K / 4000K / 6500K [>Ra80]	50000	>0.9	Polycarbonate
FFL70400v0-ps	45.5	4200	92	100	W217 x L303 x H97	3000K / 4000K / 6500K [>Ra80]	50000	>0.9	Polycarbonate

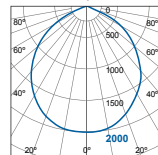
FFL70200v0-ps



m	Lux	Ø cm
0.5	4260	119
1	1065	238
1.5	473	358
2	266	477

Beam angle = 100°

FFL70400v0-ps



m	Lux	Ø cm
0.5	8000	119
1	2000	238
1.5	889	358
2	500	477

Beam angle = 100°

Accessory

LA10038
Working stand for TOTT SLA10039
Working stand for TOTT MLA10040
Working stand for TOTT XLLA10050
Extension armLA11144
PIR Sensor

MEGAMAN® ENSIO



MEGAMAN® ENSIO



MEGAMAN® ENSIO

Outdoor integrated LED floodlight

Having a stylish compact profile, with unique integrated LED louvre optics, MEGAMAN® ENSIO restricts glare with enhanced photometric control delivering a powerful luminous flux of up to 22,000 lumens. This series sets new standards with regard to performance and cost-effectiveness.

MEGAMAN® ENSIO's unique louvre options also allow two alternative beam distributions. The symmetric version for an evenly distributed floodlight in wide area applications and an asymmetric version which has higher intensity at the top of the vertical beam axis, essential for an uniform output where the floodlight has to be mounted close to the object. This minimizes hot spots and projects the light for an even wash of light, for example, on an advertising sign or building façade.

Furthermore, the pre-treated and powder coated strong aluminum housing offers high weather resistance, with IK08 impact resistance, vented IP66 ingress protection and high ambient temperature rating of Ta50°C. This provides superior durability in extreme environments and reduces maintenance costs throughout the long service life.

Features

- Ideal 250W and 400W metal halide floodlight replacement
- Unique LED louver optics for low glare and photometric control
- Durable water and vandal resistant construction with IP66 and IK08 rating
- High ambient temperature rating of Ta50°C for extreme conditions
- Gasketed air vents allow product to breathe without water ingress ensuring a water tight seal is maintained over the long term in tough environments
- Pre-treated powder coated aluminum housing for protection against corrosion
- Smooth symmetric and asymmetric distributions available
- Graduated bracket for precise setting
- Very efficient with efficacies up to 122lm/W
- Good lumen package with a total luminous flux up to 22,000lm
- Long life of 50,000hrs at L70 B50 at Ta50°C

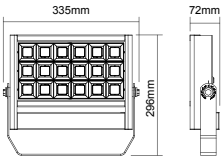


Applications

- Sports areas
- Billboards
- Facades
- Outdoor car parks
- Building perimeter
- Industrial estates
- Marshalling yards
- Port and dock areas
- Gate areas

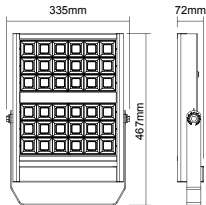
MEGAMAN® ENSIO

FFL70000v0



220-240V

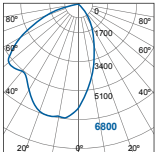
FFL70100v0



Black (BK24)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta50°C (hrs)	Power Factor (λ)	Optics	Materials
FFL70000v0+70D	90	10500 [3000K] 11000 [4000K] 11000 [6500K]	117 [3000K] 122 [4000K] 122 [6500K]	70	6800	L296 x W335 x H72	3000K / 4000K / 6500K [Ra80]	50000	>0.9	Asymmetric	Aluminum housing with anodizing aluminum louvre and PC cover
FFL70000v0+110D	90	10500 [3000K] 11000 [4000K] 11000 [6500K]	117 [3000K] 122 [4000K] 122 [6500K]	110	5500	L296 x W335 x H72	3000K / 4000K / 6500K [Ra80]	50000	>0.9	Symmetric	Aluminum housing with anodizing aluminum louvre and PC cover
FFL70100v0+70D	180	21000 [3000K] 22000 [4000K] 22000 [6500K]	117 [3000K] 122 [4000K] 122 [6500K]	70	12500	L467 x W335 x H72	3000K / 4000K / 6500K [Ra80]	50000	>0.9	Asymmetric	Aluminum housing with anodizing aluminum louvre and PC cover
FFL70100v0+110D	180	21000 [3000K] 22000 [4000K] 22000 [6500K]	117 [3000K] 122 [4000K] 122 [6500K]	110	11000	L467 x W335 x H72	3000K / 4000K / 6500K [Ra80]	50000	>0.9	Symmetric	Aluminum housing with anodizing aluminum louvre and PC cover

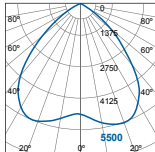
FFL70000v0+70D



m	Lux	Ø cm
0.5	27200	70
1	6800	140
1.5	3022	210
2	1700	280

Beam angle = 70°

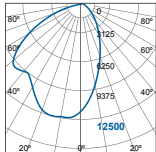
FFL70000v0+110D



m	Lux	Ø cm
0.5	22000	143
1	5500	286
1.5	2444	428
2	1375	571

Beam angle = 110°

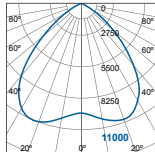
FFL70100v0+70D



m	Lux	Ø cm
0.5	50000	70
1	12500	140
1.5	5556	210
2	3125	280

Beam angle = 70°

FFL70100v0+110D



m	Lux	Ø cm
0.5	44000	143
1	11000	286
1.5	4889	428
2	2750	571

Beam angle = 110°



MEGAMAN® VOSS



MEGAMAN® VOSS

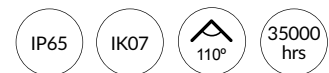
Outdoor integrated LED floodlight

MEGAMAN® VOSS is a high performance outdoor downlight with great light utilization and evenness. Equipped with a u-shaped bracket, the luminaire can be adjusted by rotating up to up to $\pm 180^\circ$ for usage in different situations, from security purposes to porch lighting.

MEGAMAN® VOSS can withstand a variety of weather conditions, like winds, rain, and outdoor temperature fluctuation. MEGAMAN® VOSS is a true replacement of up to 70W metal-halide lamp floodlights.

Features

- Robust die-cast aluminum housing for protection against corrosion
- Streamline design and unique patterns of tempered glass for homogeneous illumination
- IP65 rated full waterproof and IK07 vandal resistance



Applications

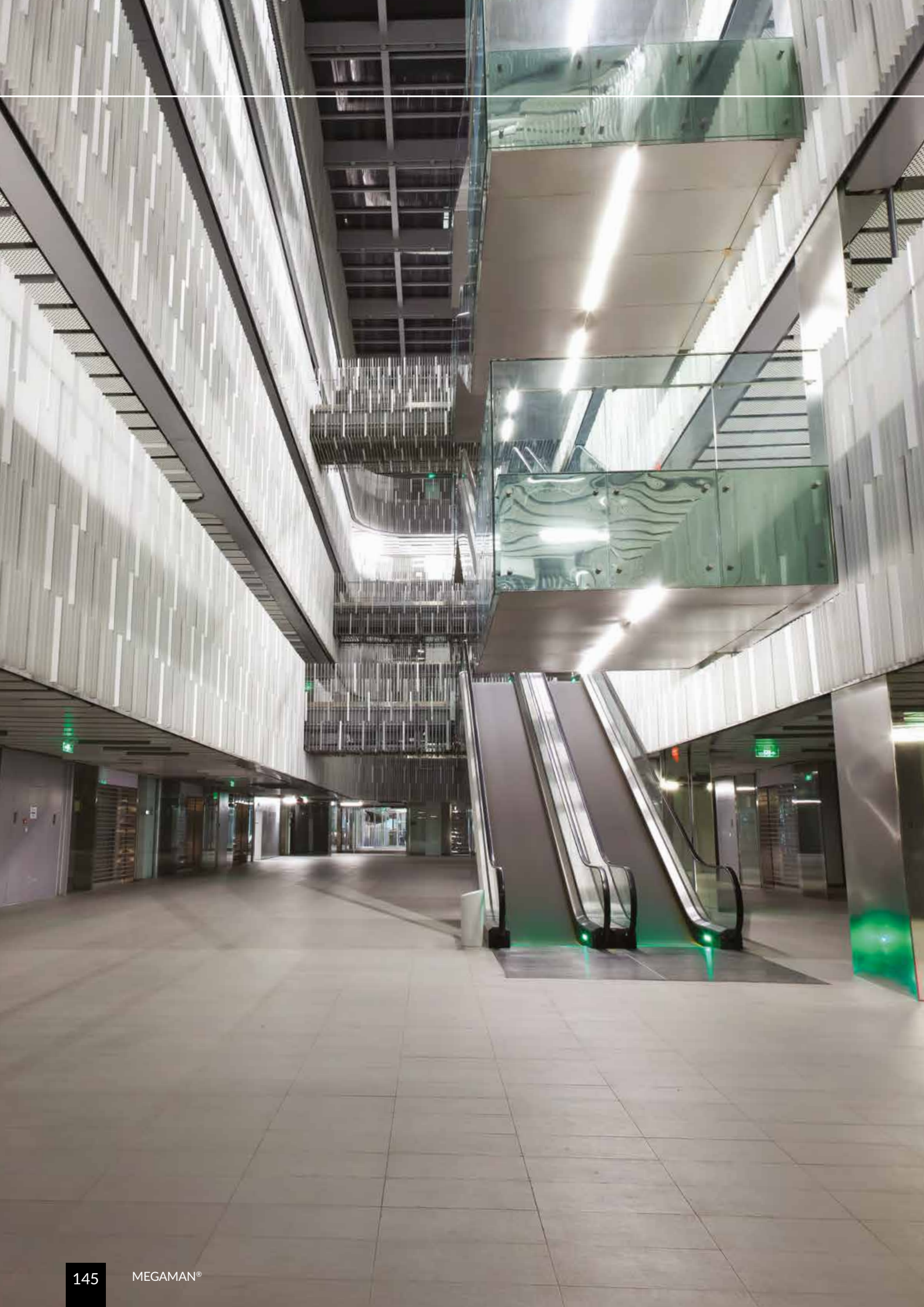
- Domestic security lighting
- Signage
- Billboards
- Gated areas

MEGAMAN® VOSS

FFL70600v0 / FFL70600v1

220-
240VBlack
(BK23)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70, B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FFL70600v0	30	2600	87	W212 x L185 x H113	3000K / 4000K	35000	>0.9	Aluminum
FFL70600v1	50	4300	48	W212 x L185 x H113	3000K / 4000K	35000	>0.9	Aluminum



OUTDOOR LIGHTING/ Waterproof Batten



MEGAMAN®
DINO 2 Emergency



MEGAMAN®
DINO 2



MEGAMAN®
DINO 2 FARM

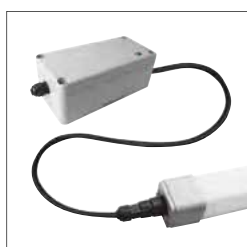


MEGAMAN®
NERO

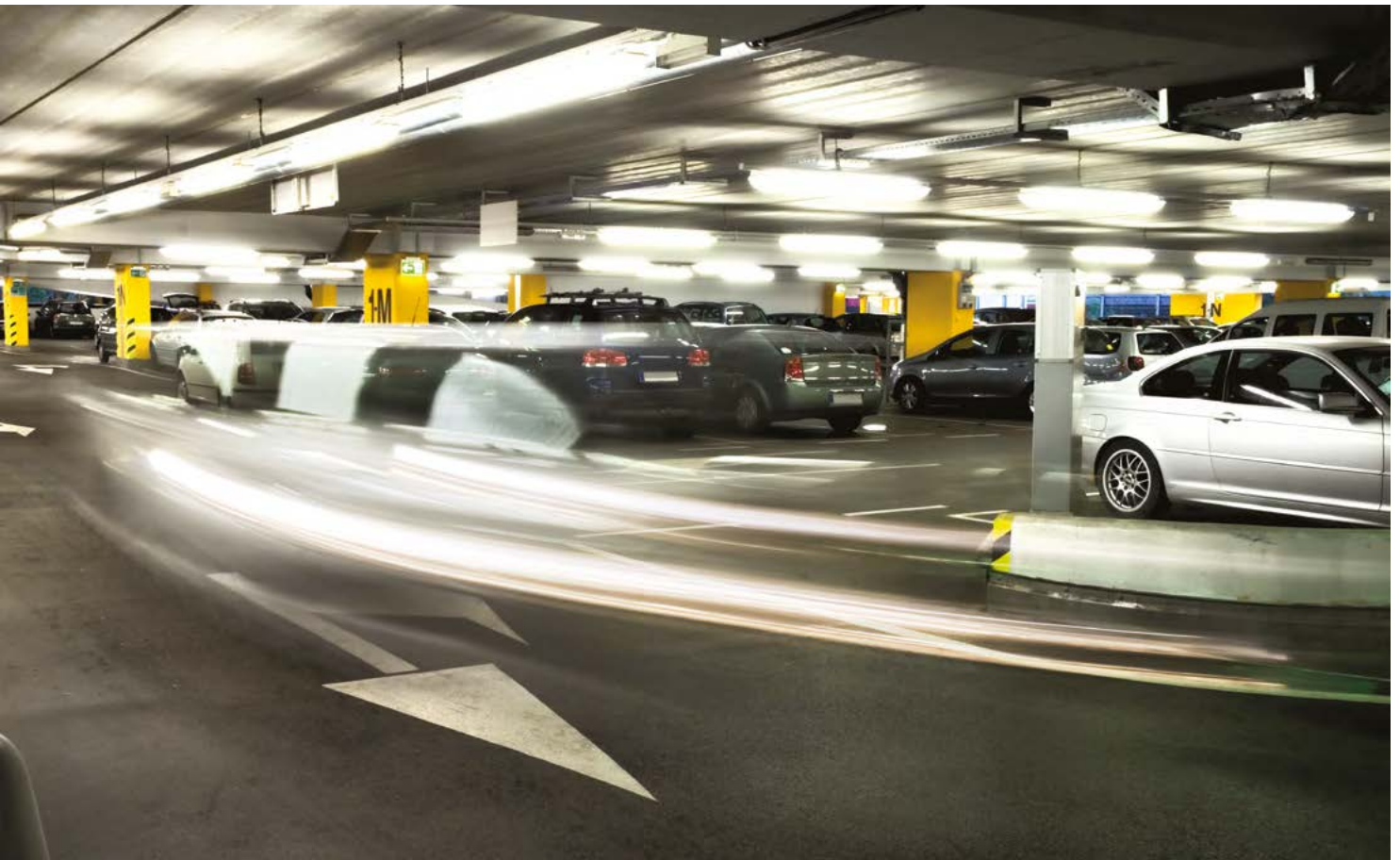


MEGAMAN®
MEZO

MEGAMAN® DINO 2 Emergency

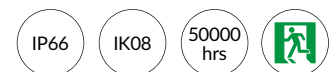


MEGAMAN® DINO 2 Emergency



MEGAMAN® DINO 2 Emergency

Integrated waterproof LED batten



Features

- External units – flexible for installation and inventory management
- Master and slave lighting system – connect up to 8pcs 1.6m DINO on either module
- Easy and flexible installation through sliding stainless steel clips
- Through wire installation makes it possible to fit modules in middle of continuous in-line runs
- PIR sensor; Up to 8m detection distance for on/off switching; lux level and time delay setting are allowed

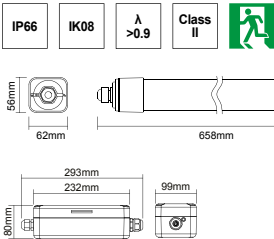
Applications

- Car parks
- Warehouses
- Workshops
- Underground areas



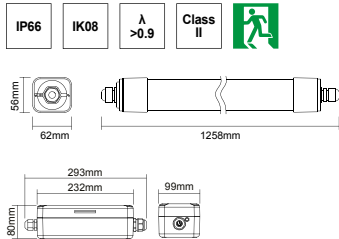
MEGAMAN® DINO 2 Emergency

FOB72200v0-em

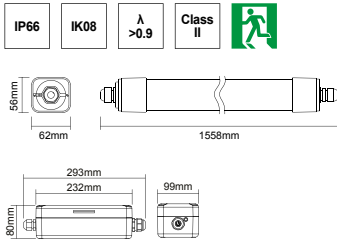


220-240V

FOB72300v0-em



FOB72400v0-em



Silver (SV16)

DINO 2 Emergency Pack | Opal Prismatic Diffuser Options

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB71900v0-em	14 (Without Driver) 20 (System)	1750 (175*) [3000K] 1800 (180*) [4000K]	125 [3000K] (Without Driver) 129 [4000K] (Without Driver) 88 [3000K] (System) 90 [4000K] (System)	160	L658 x W62 x H56	3000K / 4000K [≥Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser
FOB72000v0-em	32 (Without Driver) 40 (System)	4150 (415*) [3000K] 4300 (430*) [4000K]	130 [3000K] (Without Driver) 134 [4000K] (Without Driver) 104 [3000K] (System) 108 [4000K] (System)	160	L1258 x W62 x H56	3000K / 4000K [≥Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser
FOB72100v0-em	34 (Without Driver) 42 (System)	4800 (480*) [3000K] 5000 (500*) [4000K]	141 [3000K] (Without Driver) 147 [4000K] (Without Driver) 114 [3000K] (System) 119 [4000K] (System)	160	L1558 x W62 x H56	3000K / 4000K [≥Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser

* Emergency kit lumen output

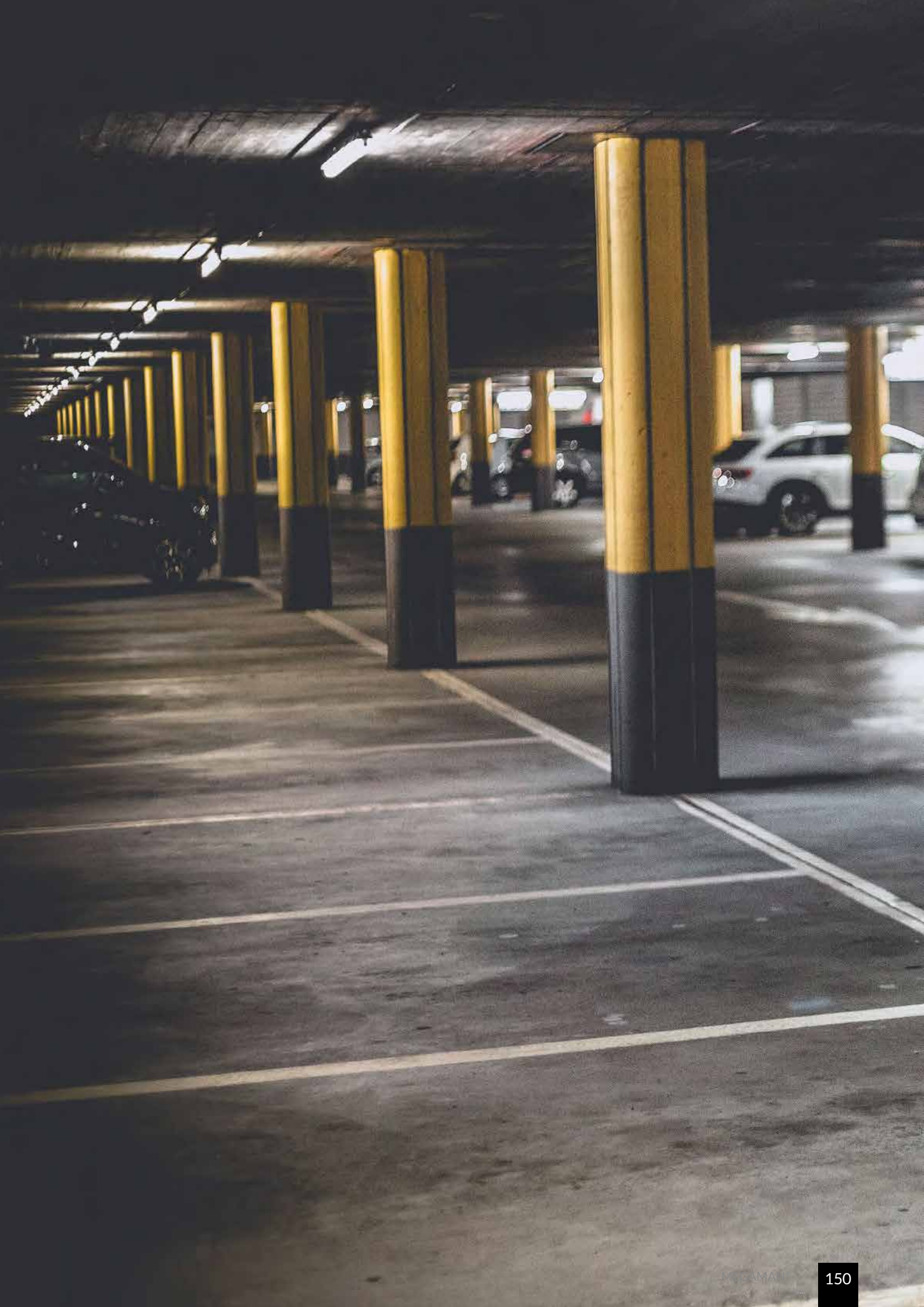
Accessory



LA11111
NiCd Battery
3000mAh 3.6V



LA11112
NiCd Battery
4500mAh 3.6V



MEGAMAN® DINO 2



MEGAMAN® DINO 2

Integrated waterproof LED batten

To continue the successful story of our existing batten series, MEGAMAN® DINO 2 is designed to offer an ideal alternative to T5 and T8 waterproof battens for outdoor and indoor applications. It comes with sliding stainless steel clips for easy and flexible installation. The permanent live option of MEGAMAN® DINO 2 allows unswitched live supply to the luminaire or appliances (i.e. sensors, emergency lighting, CCTV, security alarm system, smoke detector and so on.) when the switch is off.

Both PIR sensor and emergency lighting options are available. MEGAMAN® DINO 2 with PIR version comes on when it senses movement of the human body. The MEGAMAN® DINO 2 emergency lighting module provides enough light for escape using its internal batteries in the event of power failure.

Features

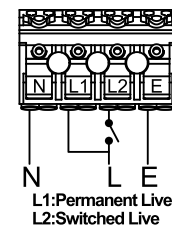
- One piece structural design in plastic extrusion profile with IP66 protection, MEGAMAN® DINO 2 offers intrinsically superior protection against water and dust than conventional T5 and T8 outdoor waterproof battens
- Designed with a tough polycarbonate body with IK08 rating for vandal resistance
- Easy and flexible installation through sliding stainless steel clips. Enabling use of existing mounting holes to replace conventional light fittings
- High lumen output of up to 6500lm
- Cable entries and through wiring allow for linear series connection



Applications

- Car parks
- Warehouses
- Workshops
- Underground areas

The specification (luminous flux / luminous efficacy) has been upgraded



Slave

MEGAMAN® DINO 2



LA1135

PIR Sensor Module

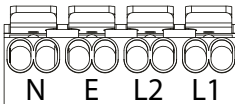
Designed with modular system, minimising storage and transportation costs

Features

- Serves as master device to control up to 504W DINO 2 (i.e. 8pcs of 63W 1.5m DINO 2) with one sensor module
- Up to 8m and 120° detection range with on/off control
- Lux level sensing and time delay setting available



Permanent Live Option

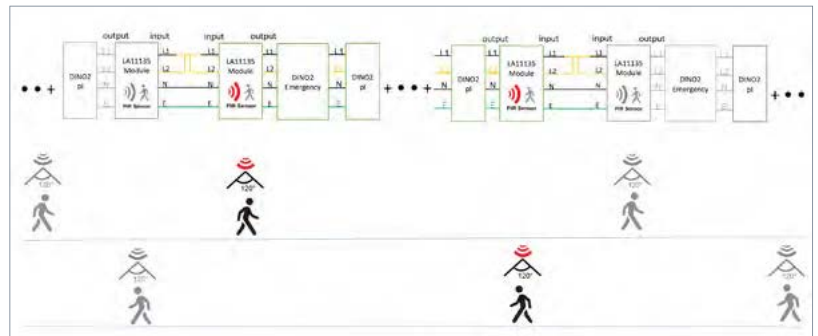


4-wire connection, allows unswitched live supply to the luminaire or appliances (i.e. CCTV, security alarm system, smoke detector, etc.) when the switch is off



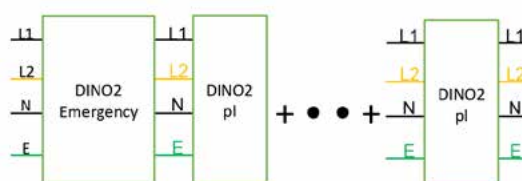
Application with PIR sensor module (model no.: LA1135)

When the switch is off, the PIR sensor modules in Group 1 and Group 2 are still connected. This allows the two PIR modules to work independently switching each group separately as they are activated. This allows 'corridor functionality', for example in an underground car park.



Application with Emergency Lighting

Non-maintained¹ emergency luminaires stay connected and charge on the permanent live, while the general lighting can work as usual on the switched circuit. In the event of power failure, the emergency units light up on their internal batteries.

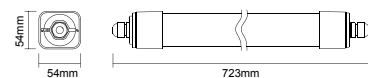


MEGAMAN® DINO 2

FOB61400v0-pl



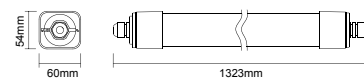
IP66 IK08 $\lambda > 0.9$ Class II



FOB61500v0-pl / FOB61500v1-pl



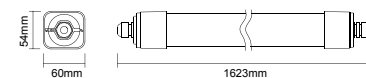
IP66 IK08 $\lambda > 0.9$ Class II



FOB61600v0-pl / FOB61600v1-pl



IP66 IK08 $\lambda > 0.9$ Class II



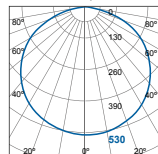
220-240V

Silver (SV16)

Permanent Live Option | Opal Prismatic Diffuser Options

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L80 B10 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB61400v0-pl	19	1750 [3000K] 1800 [4000K]	92 [3000K] 95 [4000K]	160	L723 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser
FOB61500v0-pl	21	2250 [3000K] 2350 [4000K]	107 [3000K] 112 [4000K]	160	L1323 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser
FOB61500v1-pl	36	4150 [3000K] 4300 [4000K]	115 [3000K] 119 [4000K]	160	L1323 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser
FOB61600v0-pl	32	3500 [3000K] 3600 [4000K]	109 [3000K] 113 [4000K]	160	L1623 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser
FOB61600v1-pl	53	6300 [3000K] 6500 [4000K]	119 [3000K] 123 [4000K]	160	L1623 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate with opal prismatic diffuser

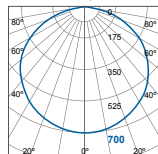
FOB61400v0-pl



m	Lux	Ø cm
0.5	2120	173
1	530	348
1.5	236	520
2	133	693

Beam angle = 120°

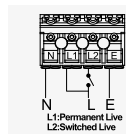
FOB61500v0-pl



m	Lux	Ø cm
0.5	2800	173
1	700	348
1.5	311	520
2	175	693

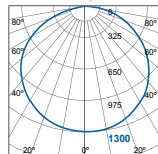
Beam angle = 120°

Permanent Live Option



4-wire connection, allows unswitched live supply to the luminaire or appliances (i.e. CCTV, security alarm system, smoke detector, etc.) when the switch is off.

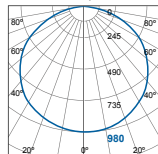
FOB61500v1-pl



m	Lux	Ø cm
0.5	5200	173
1	1300	348
1.5	578	520
2	325	693

Beam angle = 120°

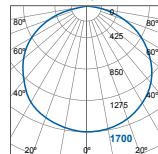
FOB61600v0-pl



m	Lux	Ø cm
0.5	3920	173
1	980	348
1.5	436	520
2	245	693

Beam angle = 120°

FOB61600v1-pl



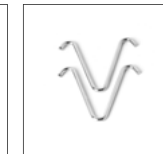
m	Lux	Ø cm
0.5	6800	173
1	1700	348
1.5	756	520
2	425	693

Beam angle = 120°

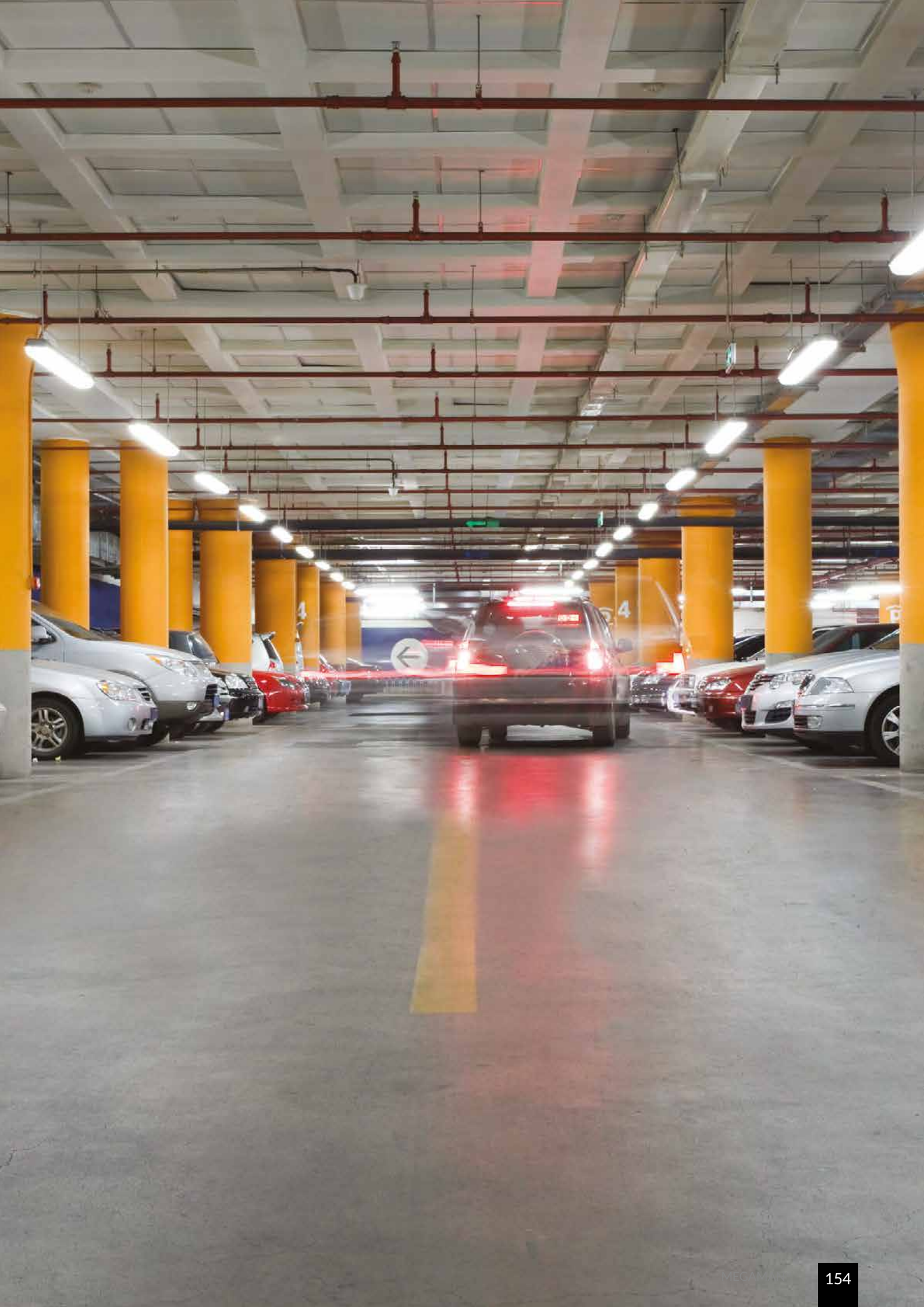
Accessory



LA8020
Cover for concealing two end cable glands and power cable



LA8021
DINO 2 Hook



MEGAMAN® DINO 2 FARM



MEGAMAN® DINO 2 FARM



MEGAMAN® DINO 2 FARM

Integrated waterproof LED batten

LEDs need special protection from the aggressive chemical atmospheres in agricultural applications. MEGAMAN® DINO 2 FARM is designed to solve the problem in challenging areas such as animal husbandry. The chemical resistant housing materials, and the IP66 and IK04 ratings for ingress protection with high impact resistance enable it to withstand harsh farm environments. Furthermore, the tool-less wiring and fast fix stainless steel mounting clips make it easier to be installed.

Features

- Special version of the popular DINO 2 waterproof batten for hostile agricultural environments
- Chemical resistant housing materials designed to withstand harsh farm locations
- Ideal for use in intensive animal husbandry such as pigsties and cowsheds where high levels of resistance to aggressive ammonia-containing gases is essential
- Airtight construction offers extra protection to the luminaire with the blockage of outside gas
- Durable and robust, sealed to IP66 for ingress protection with high impact resistance of IK04
- Self-contained integrated LED units – flexible for installation and inventory management
- Excellent lighting performance of up to 6500lm
- Energy saving with efficacies up to 123lm/W
- Long Lifetime of 50,000 hrs L80, B510 for low maintenance and further cost saving
- Tool-less wiring and fast-fix stainless steel mounting clips for easy installation
- Equipped with flicker-free (frequency 160Hz) driver ideally for poultry house



Applications

- Livestock husbandry (pigsties, cowsheds and poultry farm)

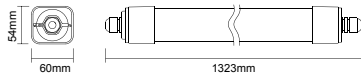


MEGAMAN® DINO 2 FARM

FOB70800v1-pl



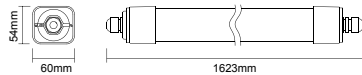
IP66 IK04 $\lambda > 0.9$ Class II



FOB70900v1-pl



IP66 IK04 $\lambda > 0.9$ Class II



220-240V

Silver (SV16)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta25°C (hrs)	Power Factor (λ)	Material
FOB70800v1-pl	36	4150 [3000K] 4300 [4000K]	115 [3000K] 119 [4000K]	120	L1323 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	End cap made of polyurethane with PMMA diffuser
FOB70900v1-pl	53	6300 [3000K] 6500 [4000K]	119 [3000K] 123 [4000K]	120	L1623 x W60 x H54	3000K / 4000K [\geq Ra80]	50000	>0.9	End cap made of polyurethane with PMMA diffuser



MEGAMAN® NERO



MEGAMAN® NERO



MEGAMAN® NERO

Integrated waterproof LED batten

MEGAMAN® NERO is an ideal luminaire range for outdoor applications such as car parks and warehouses, while delivering a significant lighting performance. It has a robust construction and IP66 rating, the MEGAMAN® NERO is easy to handle as the integrated driver and built-in LED facilitates easy installation. In addition, the option of permanent live associated with the use of an external PIR sensor module and other non-maintained emergency luminaires.

Features

- Slim design and light weight waterproof batten.
- Economic solution for replacing conventional T5 and T8 outdoor waterproof battens
- Tough polycarbonate body with IK08 rating for vandal resistance
- Superior IP66 protection against water and dust
- Integrated driver and built-in LED that facilitates easy installation
- Sliding stainless steel clips make suspended or surface mounted installation simple, quick and neat
- Cable entries and through wiring allow flexible connections
- Additional option of permanent live facilitates the use of external PIR sensor module and other non-maintained emergency luminaires



Applications

- Car parks
- Warehouses
- Workshops
- Underground areas and similar applications

Plug- and-Play:

Connect up to

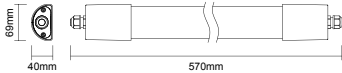
- 25 units for FOB70300v0 / FOB70300v0-pl
- 11 units for FOB70400v1 / FOB70400v1-pl
- 9 units for FOB70500v1-pl

MEGAMAN® NERO

FOB70300v1



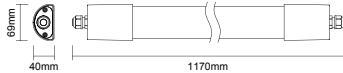
IP66 IK08 $\lambda > 0.9$ Class II



FOB70400v1



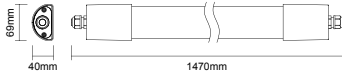
IP66 IK08 $\lambda > 0.9$ Class II



FOB70500v1



IP66 IK08 $\lambda > 0.9$ Class II



220-240V

Silver (SV16)

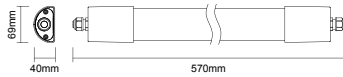
Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB70300v0	16	1500	94	110	L570 x W69 x H40	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate
FOB70400v1	38	4000	105	110	L1170 x W69 x H40	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate
FOB70500v1	46	5000	109	110	L1470 x W69 x H40	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate

MEGAMAN® NERO

FOB70300v1-pl



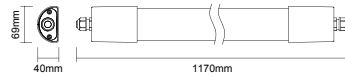
IP66 IK08 $\lambda > 0.9$ Class II



FOB70400v1-pl



IP66 IK08 $\lambda > 0.9$ Class II



FOB70500v1-pl



IP66 IK08 $\lambda > 0.9$ Class II



220-
240V

 Silver

Permanent Live Option

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB70300v0-pl	16	1500	94	110	L570 x W69 x H40	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate
FOB70400v1-pl	38	4000	105	110	L1170 x W69 x H40	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate
FOB70500v1-pl	46	5000	109	110	L1470 x W69 x H40	3000K / 4000K [\geq Ra80]	50000	>0.9	Polycarbonate

MEGAMAN® MEZO



MEGAMAN® MEZO



MEGAMAN® MEZO

Integrated waterproof LED batten

MEGAMAN® MEZO is a cost-effective and reliable LED batten minimizing the initial investment without compromising flexibility. It is a waterproof batten with integrated LED, light in weight with ultra slim design that gives lighting designers a great freedom in various of applications. The high luminous efficacy enables significant energy savings of up to 69% as compared to conventional T8 battens. It is available in three lengths and two versions (through wired and non-through wired).

Features

- Waterproof batten with integrated LED, light in weight with ultra slim design
- High luminous efficacy up to 106lm/W which delivers significant energy savings of up to 64% as compared to traditional T8 battens
- Highly competitive value-for-money waterproof batten ideal for wholesale or DIY
- IP66 protection against water and dust, and IK08 for vandal resistance
- Sliding stainless steel clips make surface mounted installation simple, quick and neat
- The unique tool-less installation enables flexible cable entries and through wiring for easy connections



Applications

- Car parks
- Garages
- Under canopy
- Subways
- Workshops
- Warehouses and similar applications

Plug- and-Play:

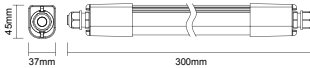
- Connect up to
- 50 units for FOB73700v0
 - 25 units for FOB71000v0
 - 10 units for FOB71100v0
 - 8 units for FOB71200v0

MEGAMAN® MEZO

FOB73700v0



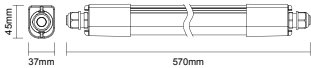
IP66 IK08 $\lambda >0.9$ Class II



FOB71000v0



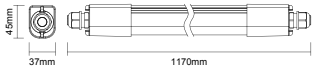
IP66 IK08 $\lambda >0.9$ Class II



FOB71100v0



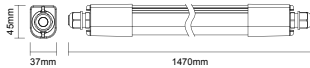
IP66 IK08 $\lambda >0.9$ Class II



FOB71200v0



IP66 IK08 $\lambda >0.9$ Class II



220-240V

Silver (SV16)

Through Wiring Options

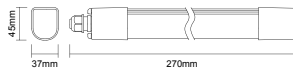
Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB73700v0	8	750 [3000K] 800 [4000K/6500K]	94 [3000K] 100 [4000K/6500K]	120	L300 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate
FOB71000v0	16	1500 [3000K] 1600 [4000K/6500K]	94 [3000K] 100 [4000K/6500K]	120	L570 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate
FOB71100v0	38	3800 [3000K] 4000 [4000K/6500K]	100 [3000K] 105 [4000K/6500K]	120	L1170 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate
FOB71200v0	47	4800 [3000K] 5000 [4000K/6500K]	102 [3000K] 106 [4000K/6500K]	120	L1470 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate

MEGAMAN® MEZO

FOB73800v0



IP66 IK08 $\lambda > 0.9$ Class II



FOB72500v0



IP66 IK08 $\lambda > 0.9$ Class II



FOB72600v0



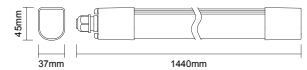
IP66 IK08 $\lambda > 0.9$ Class II



FOB72700v0



IP66 IK08 $\lambda > 0.9$ Class II



220-
240V

Silver
(SV16)

Non-through Wiring Options

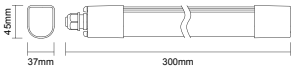
Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB73800v0	8	750 [3000K] 800 [4000K/6500K]	94 [3000K] 100 [4000K/6500K]	120	L270 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate
FOB72500v0	16	1500 [3000K] 1600 [4000K/6500K]	94 [3000K] 100 [4000K/6500K]	120	L540 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate
FOB72600v0	38	3800 [3000K] 4000 [4000K/6500K]	100 [3000K] 105 [4000K/6500K]	120	L1140 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate
FOB72700v0	47	4800 [3000K] 5000 [4000K/6500K]	102 [3000K] 106 [4000K/6500K]	120	L1440 x W37 x H45	3000K / 4000K / 6500K [\geq Ra80]	35000	>0.9	Polycarbonate

MEGAMAN® MEZO PLANT LAMP

FOB73700v0-pt



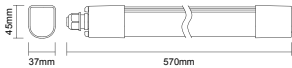
IP66 IK08 $\lambda > 0.9$ Class II



FOB71000v0-pt



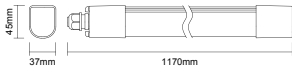
IP66 IK08 $\lambda > 0.9$ Class II



FOB71100v0-pt



IP66 IK08 $\lambda > 0.9$ Class II



220-240V

Silver (SV16)

Plant Lamp - Through Wiring Options

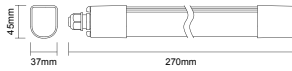
Model No.	Wattage (W)	Beam Angle (°)	Dimension (mm)	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB73700v0-pt	4.3	120	L300 x W37 x H45	35000	>0.9	Polycarbonate
FOB71000v0-pt	8.5	120	L570 x W37 x H45	35000	>0.9	Polycarbonate
FOB71100v0-pt	17	120	L1170 x W37 x H45	35000	>0.9	Polycarbonate

MEGAMAN® MEZO PLANT LAMP

FOB73800v0-pt



IP66 IK08 $\lambda > 0.9$ Class II



FOB72500v0-pt



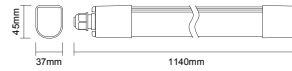
IP66 IK08 $\lambda > 0.9$ Class II



FOB72600v0-pt



IP66 IK08 $\lambda > 0.9$ Class II



220-240V

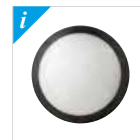
Silver (SV16)

Plant Lamp - Non Through Wiring Options

Model No.	Wattage (W)	Beam Angle (°)	Dimension (mm)	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Materials
FOB73800v0-pt	4.3	120	L270 x W37 x H45	35000	>0.9	Polycarbonate
FOB72500v0-pt	8.5	120	L540 x W37 x H45	35000	>0.9	Polycarbonate
FOB72600v0-pt	17	120	L1140 x W37 x H45	35000	>0.9	Polycarbonate



OUTDOOR LIGHTING/ Bulkhead



MEGAMAN®
FONDA

MEGAMAN® FONDA



MEGAMAN® FONDA



MEGAMAN® FONDA

LED bulkhead

MEGAMAN® FONDA is designed to provide convenience and flexibility with its plug-and-play modular design structure. The luminaire consists of 3 components - front ring, LED module and bottom plate. Accessories and modules of FONDA can be changed according to actual needs, allowing switching among housing color and trim shape (including eyelid trim ring) for authenticity, or changing functional modules, like Emergency kit and microwave motion sensor.

Being the ideal solution for outdoor bulkhead, MEGAMAN® FONDA is constructed with fully corrosion and UV resistant polycarbonate (PC) materials, with IK10 impact resistance, and IP66 waterproof protection. In order to protect the luminaire and its parts from the outdoor environment, security screws are applied for deterring thieves and vandals. In addition, MEGAMAN® FONDA also features long rated life, endurance of high ambient temperature of up to 50°C for outdoor use.

Features

- Plug-and-play modular design provides flexibility on both appearance and functionality
- Flicker Free <3%
- DC input compatible (180V-260V DC)
- Lifetime up to 50,000hrs L70 B50 at Ta25° C
- Tri-lumen output (1000lm/1500lm/2000lm) available apart from 900lm standard version



Applications

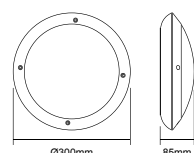
- Car parks
- Warehouses
- Stairwells
- Corridors
- Patios

MEGAMAN® FONDA

FBH70000v0



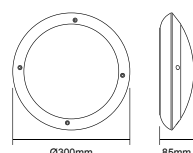
IP66 IK10 Class II $\lambda > 0.9$



FBH70000v0+LA11157



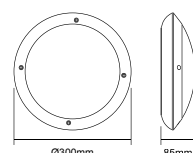
IP66 IK10 Class II $\lambda > 0.9$



FBH70000v0+LA10175



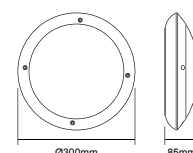
IP66 IK10 Class II $\lambda > 0.9$



FBH70000v0+LA10175+LA11157



IP66 IK10 Class II $\lambda > 0.9$



220-240V

White (WH12) Silver (SV16) Black (BK12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FBH70000v0	10	900	90	110	Ø300 x H85	4000K [≥Ra80]	50,000	>0.9	Polycarbonate
FBH70000v0+LA11157	10	900	90	110	Ø300 x H85	4000K [≥Ra80]	50,000	>0.9	Polycarbonate
FBH70000v0+LA10175	10	900	90	110	Ø300 x H85	4000K [≥Ra80]	50,000	>0.9	Polycarbonate
FBH70000v0+LA10175+LA11157	10	900	90	110	Ø300 x H85	4000K [≥Ra80]	50,000	>0.9	Polycarbonate

Accessory

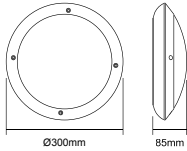
LA8074
Front RingLA8075
Eyelid Trim RingLA8076
Bottom PlateLA8078
Bottom Plate for NordicLA10175
Microwave Motion SensorLA11157
Emergency Kit Module

MEGAMAN® FONDA

FBH70000v0-ds



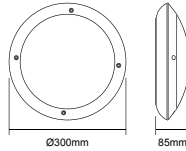
IP66 IK10 Class II $\lambda > 0.9$



FBH70000v0-ds+LA10175




IP66 IK10 Class II $\lambda > 0.9$



220-240V

White (WH12) Silver (SV16) Black (BK12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated Life at L70 B50 at Ta25°C (hrs)	Power Factor (λ)	Material
FBH70000v0-ds	22/15/10	2000 / 1500 / 1000	91 / 100 / 100	110	Ø300 x H85	4000K [\geq Ra80]	50,000	>0.9	Polycarbonate
FBH70000v0-ds+LA10175 	22/15/10	2000 / 1500 / 1000	91 / 100 / 100	110	Ø300 x H85	4000K [\geq Ra80]	50,000	>0.9	Polycarbonate



Emergency and Microwave Motion Sensor Option

- Emergency kit with 300lm* output energy backup lasting for 3 hours (*Preliminary data)
- MEGAMAN® FONDA with microwave motion sensor can serve as a master device to control other FONDA without sensor as slaves in a group with loop through wiring connection, with maximum 250W loading
- Maximum Connection for microwave motion sensor master-slave looping for 10W is 25 pcs; for 15W is 20pcs; for 22W is 10pcs
- Microwave sensor can sense movement within 3m radius, or within 6 m directly front-facing



OUTDOOR LIGHTING/ Garden Lighting



MEGAMAN®
TEKA



MEGAMAN®
CAPPI

MEGAMAN® TEKA



MEGAMAN® TEKA

Garden lighting

Designed for outdoor application, MEGAMAN® TEKA features IP66 protection with rust-free finishing for a spike-mounted solution. MEGAMAN® TEKA is an integrated LED spike-mounted luminaire with built-in driver, it is perfect to replace conventional spike-mounted luminaires.

MEGAMAN® TEKA offers a flexible 180° tilt angle for directional lighting. It is made of an extra lightweight and durable polycarbonate material, it offers visual comfort with minimal glare.

Features

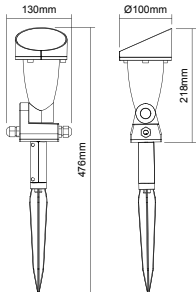
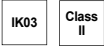
- Integrated LED with built-in driver which facilitates easy installation and maintenance
- Flexible tilt angle of 180° for directional lighting
- Offers visual comfort with minimal glare
- With IP66 protection, perfect for outdoor application
- Glare shield and spike are available for different applications
- Made with extra light-weight and durable polycarbonate material
- Rust-free finish

Applications

- Gardens
 - Driveways
 - Small lanes
-

MEGAMAN® TEKA

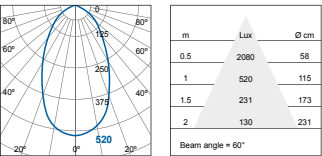
F03500SP



220-240V



Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Max. Luminous Intensity (cd)	Dimension (mm)	Colour Temp. [CRI]	Rated Life (hrs)	Materials
F03500SP	10.5	700	67	60	520	W100 x L130 x H476	3000K / 4000K [Ra80]	25000	Polypropylene compound



Complete set comes with



Luminaire

Glare Shield

Spike

MEGAMAN® CAPPI



MEGAMAN® CAPPI

Garden lighting

MEGAMAN® CAPPI is a spike-mounted luminaire with IP54 protection for outdoor use. Working with the MEGAMAN® water-resistant LED PAR38 reflector lamp, MEGAMAN® CAPPI delivers excellent light output, which is perfect for use in gardens, driveways and small lanes. It offers a flexible tilt angle of 120° for directional lighting. It is made of an extra lightweight and durable polypropylene material.

Features

- Directly connects to the mains, which means it is free of compatibility issues with no extra cost for an external driver
- Reduces installation time and space required
- IP54 protection for outdoor use
- Instant start

Applications

- Gardens
 - Driveways
 - Small lanes
-

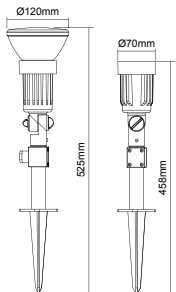
MEGAMAN® CAPPI

F32114SP



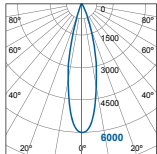
IP54

Class II



Black
(BK12)

Model No.	Max. Wattage (W)	Dimension (mm)	Light Source	Lamp Base	Materials
F32114SP	16	Ø70 x H458	LED PAR38	E27	Polypropylene compound



m	Lux	Ø cm
0.5	24000	22
1	6000	44
1.5	2667	67
2	1500	89

Beam angle = 25°

Please refer to page 151 for more light source information



OUTDOOR LIGHTING/ High Bay



MEGAMAN®
LEO



MEGAMAN®
GEO

MEGAMAN® LEO



MEGAMAN® LEO



MEGAMAN® LEO

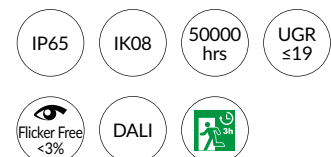
High bay LED pendant luminaire

MEGAMAN® LEO is designed for the use in extreme or industrial environments. With the innovative technology of instant light and no warm up time it is a superior alternative to HID high bay for excellent energy-saving and long life. Nowadays, installation time, labour and maintenance cost are considerable factors and MEGAMAN® LEO provides a long-term cost-effective solution.

The intelligent tool-less wiring concept for suspended mounting, flexible modular design and extremely light weight, provide the appropriate solution for most installation requirements. Different lumen packages and beam angles allow for the adjustment of illuminance and light distribution in large indoor environments to illuminate any area evenly.

Features

- Unique low profile high bay unit with flexible modular design
- Robust polycarbonate housing for high impact resistance
- Extremely light weight (3kg) for easy mounting, reducing installation and labour cost
- Tool-less wiring allows fast connection
- Concealed heat sink makes product unobtrusive
- Modular LED system for maximum flexibility with different lumen packages (11000lm and 22000lm)
- Up to 62% of energy saving compared to conventional high bay luminaires
- Medium (50°) and wide beam (110°) optics available for different applications, from high to low ceiling height
- Glare rating of UGR19 to EN12464
- High ambient temperature rating of up to +60°C allows use in extreme environments
- Lifetime up to 50,000hrs L70 B10 at Ta60°C
- Different accessories allow LEO high bay to be used in low bay and floodlight applications
- DALI option are available - allows for control of lumen levels to maximize the energy savings (DALI option)

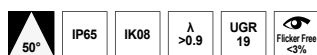


Applications

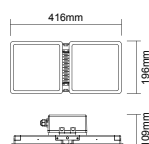
- High-ceiling
- Hall
- Warehouses
- Manufacturing bays
- Trade fairs
- Exhibitions

MEGAMAN® LEO

FHB70000v0+050D+UGR19 /
FHB70000v0-da+050D+UGR19

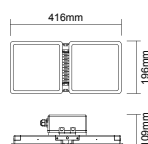
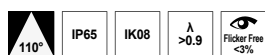


Class II

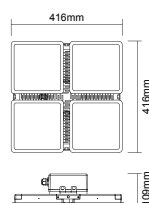
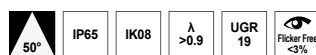


220-240V

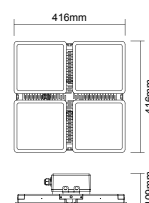
FHB70000v0+110D /
FHB70000v0-da+110D



FHB70100v0+050D+UGR19 /
FHB70100v0-da+050D+UGR19



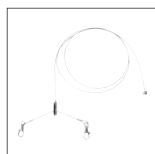
FHB70100v0+110D
FHB70100v0-da+110D



Black
(BK12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta25°C L70 B10 at Ta60°C (hrs)	Power Factor (λ)	Materials
FHB70000v0+050D+UGR19 FHB70000v0-da+050D+UGR19	90	11000	122	50	L416 x W196 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate
FHB70000v0+110D FHB70000v0-da+110D	90	11000	122	110	L416 x W196 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate
FHB70100v0+050D+UGR19 FHB70100v0-da+050D+UGR19	180	22000	122	50	L416 x W416 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate
FHB70100v0+110D FHB70100v0-da+110D	180	22000	122	110	L416 x W416 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate

Accessory



LA10081
3m Y-steel suspension wire
with hook (2 pieces)



LA10084
Low bay U-shaped bracket
from 90W LEO



LA10088
Floodlight U-shaped
bracket for 90W LEO



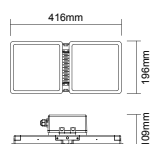
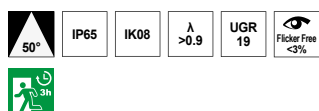
LA10089
Low bay U-shaped bracket
from 180W LEO



LA10080
Floodlight U-shaped
bracket for 180W LEO

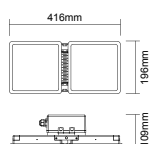
MEGAMAN® LEO

FHB70000v0-em+050D+UGR19

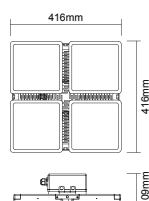
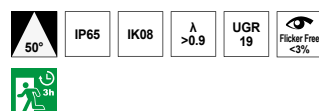


220-240V

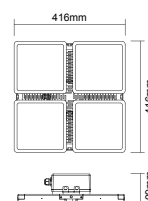
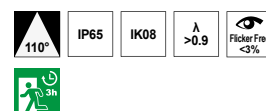
FHB70000v0-em+110D



FHB70100v0-em+050D+UGR19



FHB70100v0-em+110D

Black
(BK12)

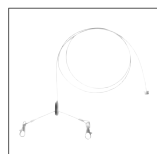
Model No.		Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta25°C L70 B10 at Ta60°C (hrs)	Power Factor (λ)	Materials
FHB70000v0-em+050D+UGR19		90	11000	122	50	L416 x W196 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate
FHB70000v0-em+110D		90	11000	122	110	L416 x W196 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate
FHB70100v0-em+050D+UGR19		180	22000	122	50	L416 x W416 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate
FHB70100v0-em+110D		180	22000	122	110	L416 x W416 x H109	4000K [≥Ra80]	50000	>0.9	Polycarbonate



Emergency Option

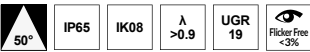
- Maintains 3 hours duration of emergency mode at required lumen level
- A green LED indicates the status of the emergency unit for visual inspection and maintenance
- Integrated "push to test" button for regular inspection of emergency unit
- Fully compliant to the emergency lighting standard EN 60598-2-22
- Replaceable NiCd battery pack for 4-years designed life according to Annex AEN 60598-2-22

Accessory

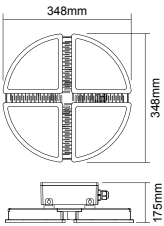
LA10081
3m Y-steel suspension wire
with hook (2 pieces)LA10084
Low bay U-shaped bracket
from 90W LEOLA10088
Floodlight U-shaped
bracket for 90W LEOLA10089
Low bay U-shaped bracket
from 180W LEOLA10080
Floodlight U-shaped
bracket for 180W LEO

MEGAMAN® LEO

FHB70200v0+050D+UGR19 /
FHB70200v0-da+050D+UGR19

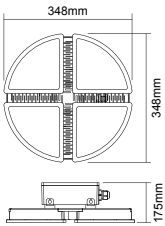


Class II

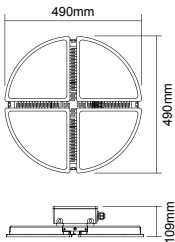
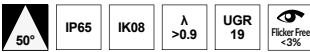


220-240V

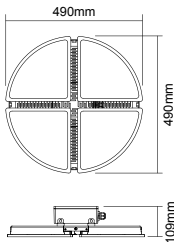
FHB70200v0+110D /
FHB70200v0-da+110D



FHB70300v0+050D+UGR19 /
FHB70300v0-da+050D+UGR19



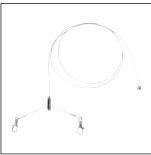
FHB70300v0+110D /
FHB70300v0-da+110D



Black (BK12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle (°)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L80 B10 at Ta 25°C L70 B10 at Ta 60°C (hrs)	IP Rating	Power Factor (λ)	Materials
FHB70200v0+050D+UGR19 FHB70200v0-da+050D+UGR19	90	11000	122	50	Ø348 x H175	4000K [Ra≥80]	50000	IP65	>0.9	Polycarbonate
FHB70200v0+110D FHB70200v0-da+110D	90	11000		110	Ø348 x H175					
FHB70300v0+050D+UGR19 FHB70300v0-da+050D+UGR19	180	22000		50	Ø490 x H175					
FHB70300v0+110D FHB70300v0-da+110D	180	22000		110	Ø490 x H175					

Accessory



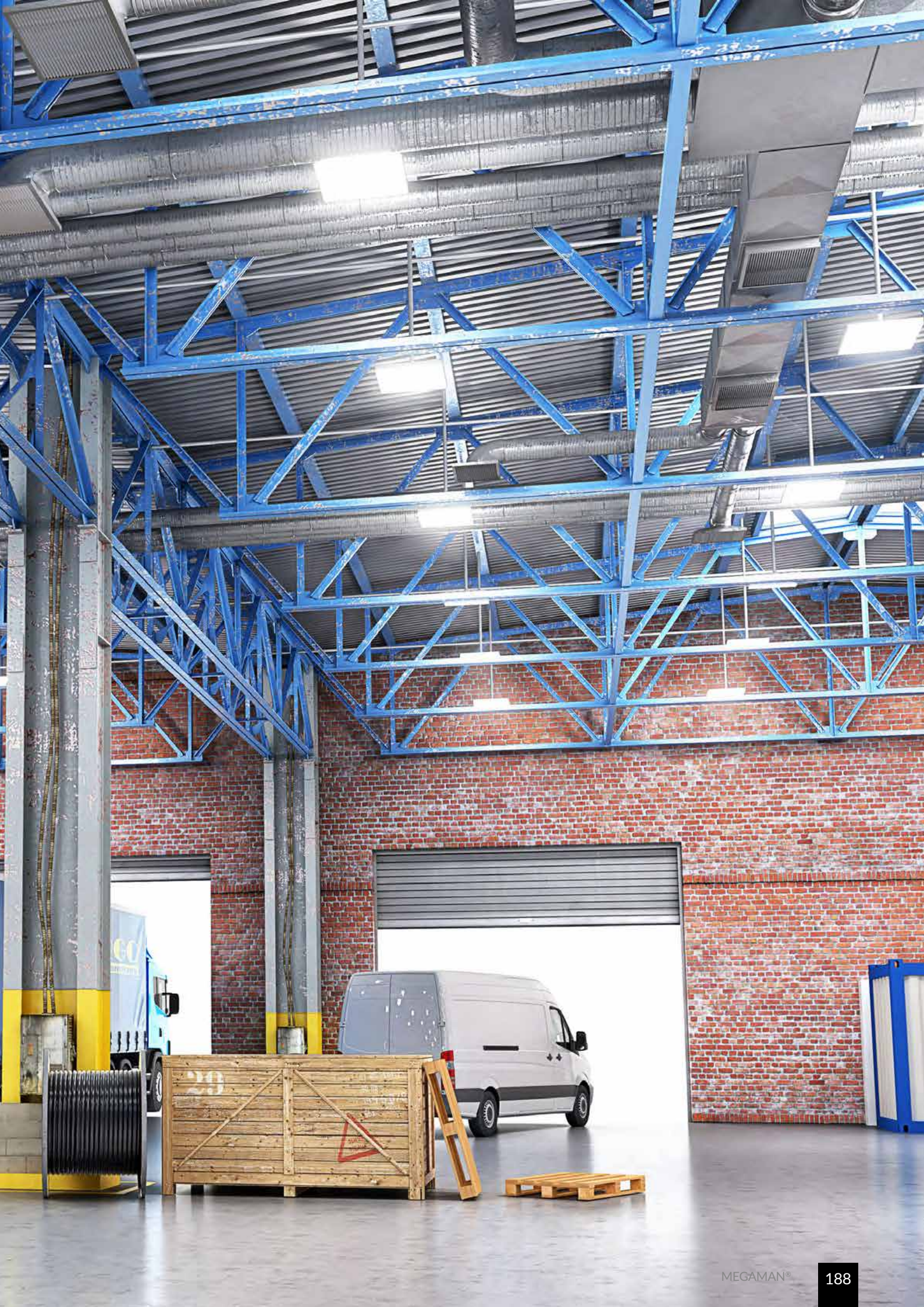
LA10081
3m Y-steel suspension wire with hook (2 pieces)



LA10112
Floodlight U-shaped bracket for 90W LEO circular shape



LA10111
Floodlight U-shaped bracket for 180W LEO circular shape



MEGAMAN® GEO



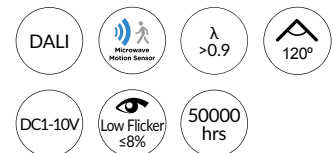
MEGAMAN® GEO

Integrated High bay pendant luminaire

MEGAMAN® GEO is an innovative high bay design compared with traditional high bay, with passive cooling structure. Its single point installation with a hook mounting makes it as an ideal replacement of existing chain suspension units. Its microwave sensor module (optional) allows dimming down to 10% brightness in stand-by mode. Reflector & refractor are available for better glare control.

Features

- Passive cooling structure for lighter design and reducing noise level
- Easy installation with single point hook mounting design
- IP65 protection from water and dust
- IK08 for high vandal resistant
- Microwave sensor module allows dimming
- Reflector & refractor as options for selection
- Lifetime up to 50,000hrs L80B10@Ta40°C
- High system luminous efficacy of 140lm/W for significant energy savings compared to traditional high bays



Applications

- High-ceiling
- Hall
- Warehouses & Manufacturing bays
- Trade fairs & Exhibitions
- Retail (Fresh Food, Cashier)

MEGAMAN® GEO

FHB70800v0/dm / FHB70800v0-da
FHB70800v1/dm / FHB70800v1-da



220-
240V

Black
(BK12)

Model No.	Wattage (W)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Dimension (mm)	Colour Temp. [CRI]	Rated life at L70 B10 at Ta40°C (hrs)	Power Factor (λ)	Materials
FHB70800v0/dm	75	10500	140	Ø300 x H201	4000K	50000	>0.9	Aluminum + PC Cover
FHB70800v0-da	75	10500	140	Ø300 x H201	4000K	50000	>0.9	Aluminum + PC Cover
FHB70800v1/dm	150	21000	140	Ø300 x H201	4000K	50000	>0.9	Aluminum + PC Cover
FHB70800v1-da	150	21000	140	Ø300 x H201	4000K	50000	>0.9	Aluminum + PC Cover

Accessory



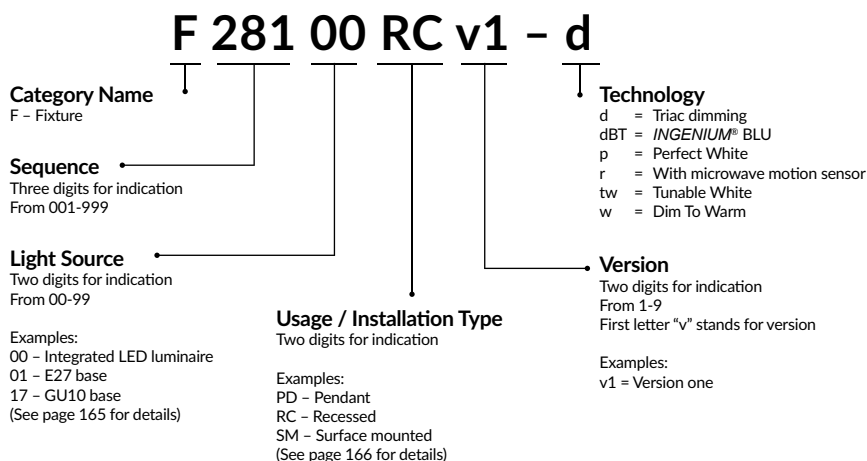
LA3133
70° Aluminum
Reflector
(Ø454 x H150mm)



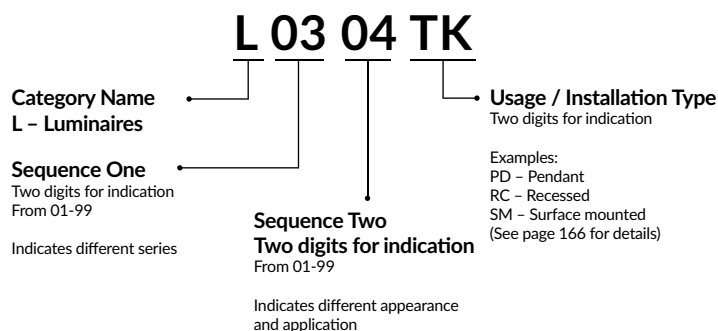
LA3134
70° PC
Refractor
(Ø413 x H165mm)

Decoding the MEGAMAN® Model Number

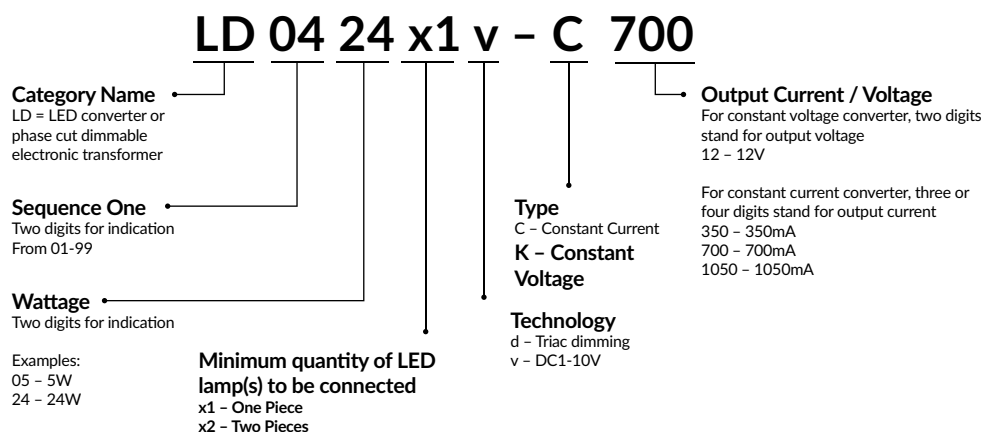
Nomenclature of Luminaires (Products launched after 2006)



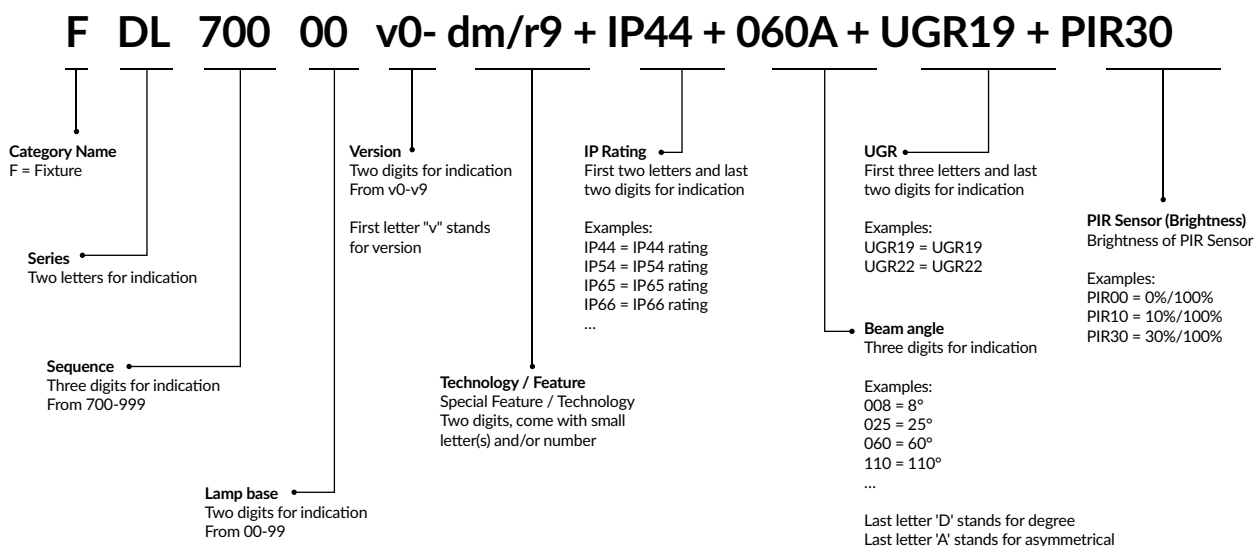
Nomenclature of Luminaires (Products before 2006)



Nomenclature of LED Converters and Phase Cut Dimmable Electronic Transformer



Upgrade of Nomenclature System



Series

Two letters for indication

Example:

Proposed Prefix	Series
GB	Gimbal
LB	Lowbay
HB	Highbay
GL	Garden Lamp
DS	Downlight (≤ Ø95mm)
DM	Downlight (>Ø95mm to ≤Ø140mm)
DL	Downlight (>Ø140mm)
IB	Indoor Batten
OB	Outdoor Batten
TA	Tracklight (Asian track, 1-way)
TK	Tracklight (European track, 3 way)
TJ	Tracklight (Japanese track)
FL	Floodlight
PL	Panel
LP	Linear Profile
CL	Indoor Ceiling Lamp
BH	Outdoor Bulkhead
WL	Wall Lamp
BA	Bollards
IG	In-ground
WK	Working Lamp
PD	Pendant Lamp

Lamp base

Two digits for indication (From 00-99)

Example:

00	Integrated LED luminaire
01	General E27 Type
02	General E14 Type
03	General B22 Type
04	General B15d Type
05	General E12 Type
06	General E17 Type
07	General E26 Type
08	General E26/E25 Type
09	General E40 Type
11	Reflector / lamp with R50 Shape
12	Reflector / lamp with R63 Shape
13	Reflector / lamp with R80 Shape
14	Reflector with PAR38 Shape
15	Reflector with PAR30 Shape
17	Reflector with GU10 Shape
18	Reflector / lamp with GX53 Shape
33	Plug-In with R7s Base
35	Reflector with PAR20 Shape
39	Connector for lamp with G53 Base
40	Reflector with GX8.5 Shape
41	Plug-In with MR16 Base
42	Reflector with E14 Base
43	LED Module TECOH® MHx in 24W
45	LED Light Engine TECOH® CFx PHJ65-2
46	LED R7s with 78mm length
47	LED R7s with 118mm length
48	LED Module TECOH® MHx in 17W
49	LED Module TECOH® RDx
51	LED Light Engine TECOH® Thx
52	Asian track (1-way)
53	European track (3-way)
54	Japanese track compatible (1-way)

Technology / Feature

Special Feature / Technology

Two digits, come with small letter(s) and/or number

Example:

Existing Suffix	Proposed Suffix	Special Feature / Technology
Product with <i>INGENIUM</i> ® BLU technology, start with 'b'		
-dBT	-b1	<i>INGENIUM</i> ® BLU Gen 1
-dBT2	-b2	<i>INGENIUM</i> ® BLU Gen 2
Product with <i>INGENIUM</i> ® ZB technology, start with 'z'		
-dZB	-zb	<i>INGENIUM</i> ® ZB 3.0
Others		
-d	-dm	Phase-Cut Dimming (Compact Dim, Dimmerable, U-DIM)
-	-da	built-in DALI Dimming
-	-db	Dual Beam Technology™
-	-dc	built-in DC1-10V Dimming
-w	-dw	Dim to Warm
-s	-ds	Step Dimming
-r	-ms	with Microwave Motion Sensor
-	-ps	with PIR Sensor
-p	-pw	Perfect White
-R9	-r9	RichColour
-	-ru	Ultra RichColour
-tw	-tw	Tunable White
-	-ex	External Driver Required
-	-em	Emergency Option
-	-hs	High Saturation
H	-hp	High Power Factor
-	-pl	Permanent Live for Emergency
-	-sc	Switching Correlated Color Temperature (CCT)
-	-sw	ON/OFF Switch

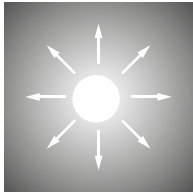
Colours / Materials

Code			Description (Colour, material, main process, 2nd process/texture, sequence)	Reference RAL Colour and Pantone
BK	1	1	Black, Plastic, Injected, Glossy, #1	RAL9004
BK	1	2	Black, Plastic, Injected, Matt, #2	RAL9004
BK	2	1	Black, Metal, Paint sprayed, Glossy, #1	RAL9005
BK	2	2	Black, Metal, Paint sprayed, Matt, #2	RAL9004
BK	2	3	Black, Metal, Paint sprayed, Coarse matt, #3	
BK	2	4	Black, Metal, Paint sprayed, Matt, #4	
BK	6	1	Black, Metal, Anodizing, Matt brush, #1	RAL9005
CH	5	1	Chromium, Metal, Electroplating, Brush, #1	
CH	5	2	Chromium, Metal, Electroplating, #1	
GD	2	1	Gold, Metal, Paint sprayed, Champagne, #1	RAL1035
GD	2	2	Gold, Plastic, Paint sprayed, Champagne, #2	
GD	2	3	Gold, Metal, Paint sprayed, Coarse Matt, #3	
GD	3	1	Gold, Plastic, Hot stamping, Brush, #1	RAL9006
GD	4	1	Gold, Plastic, Vacuum metalising gold, #1	
GD	5	1	Gold, Plastic, Electroplating, #1	
GD	5	2	Gold, Metal, Electroplating, #2	
GN	1	1	Green, Plastic, Injected, Glossy, #1	RAL6012
GN	1	2	Green, Plastic, Injected, Matt, #2	RAL6012
NI	4	1	Nickel, Plastic, Vacuum metalising aluminium, #1	
NI	5	1	Nickel, Plastic, Electroplating, #1	
NI	5	2	Nickel, Plastic, Electroplating, Swirl brush, #2	
NI	5	3	Nickel, Metal, Electroplating, Swirl brush, #3	
SV	1	1	Silver-grey, Plastic, Injected, Glossy, #1	RAL7005
SV	1	2	Silver-grey, Plastic, Injected, Matt, #2	RAL7036
SV	1	3	Silver-grey, Plastic, Injected, Matt, #3	
SV	1	4	Silver-grey, Plastic, Injected, Matt, #4	RAL7047
SV	1	5	Silver-grey, Plastic, Injected, Glossy, #5	RAL7042
SV	1	6	Silver-grey, Plastic, Injected, Matt, #6	
SV	2	1	Silver-grey, Plastic, Paint sprayed, Glossy, #1	RAL7040
SV	2	2	Silver-grey, Plastic, Paint sprayed, Matt, #2	RAL9006
SV	2	3	Silver-grey, Metal, Paint sprayed, Glossy, #3	RAL7038
SV	2	4	Silver-grey, Metal, Paint sprayed, Matt, #4	RAL9006
SV	2	5	Silver-grey, Plastic, Paint sprayed, Glossy, #5	RAL9006
SV	2	6	Silver-grey, Metal, Paint sprayed, Glossy, #6	RAL9006
SV	2	7	Grey, Metal, Paint sprayed, Granite, #7	
SV	2	8	Silver-grey, Metal, Paint sprayed, Glossy, #8	
SV	3	1	Silver-grey, Plastic, Hot stamping, Brush, #1	
SV	6	1	Silver-grey, Metal, Anodizing, Straight brush, #1	RAL9006
SV	6	2	Silver-grey, Metal, Anodizing, Sandblast, #2	RAL9006
SV	6	3	Silver-grey, Metal, Sandblast, #1	
SV	6	4	Silver-grey, Metal, Anodizing, Swirl brush, #4	
WH	1	1	White, Plastic, Injected, Glossy, #1	RAL9001
WH	1	2	White, Plastic, Injected, Matt, #2	RAL9001
WH	1	3	White, Plastic, Injected, Glossy, #3	RAL9003
WH	2	1	White, Metal, Paint sprayed, Glossy, #1	RAL9003
WH	2	2	White, Metal, Paint sprayed, Granite, #2	
WH	2	3	White, Plastic, Paint sprayed, Glossy, #3	
WH	2	4	White, Metal, Paint sprayed, Coarse matt, #4	
WH	2	5	Ivory White, Metal, Paint sprayed, Matt, #5	
WH	2	6	White, Metal, Paint sprayed, Matt, #6	

Connection Box / Terminal Block

Model No.	Connection type		
LA2501	Parallel type (Short version)	2-Way	
LA2502	Single screw type (Long version)	2-Way	
LA2504	Single screw type (Short version)	2-Way	
LA2505	Parallel type (Long version)	2-Way	
LA5111	Single screw type	3-Way	
LA5113	Single/Parallel push-in type	3-Way	
LA5211 (with fixing bracket)	Single screw type	3-Way	
LA5213 (with fixing bracket)	Single/Parallel push-in type	3-Way	

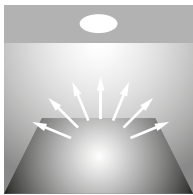
Symbol Information



Luminous Flux

Unit: lumen

Luminous flux is the total amount of light energy radiated from a light source in all directions and is expressed in lumens.

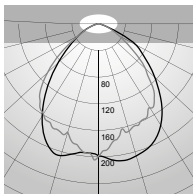


Luminous Intensity

Unit: candela (cd)

Luminous intensity is the luminous flux in a given direction expressed in candelas (cd) as a measure of the visibility of a light source.

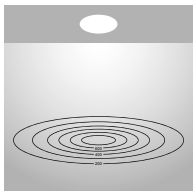
Most light sources emit the light at different strengths in different directions, the intensity distribution must be given for all directions to have a complete description of the light field. The representation in a polar-coordinate diagram is called a luminous intensity distribution curve.



Luminous Intensity Distribution Curve

A luminous intensity distribution curve is a graphical presentation of the distribution of light intensity of a light source, mainly used to show the light output of a reflector lamp or a luminaire. The curve is typically represented in polar plots because this format helps users to visualize both the orientation and the light distribution of the luminaire.

The luminous intensity distribution of a luminaire depends on its optical design that can involve the shape and form of the light source, reflectors, louvres, diffusers, lenses or shields which may be used to control the light output.

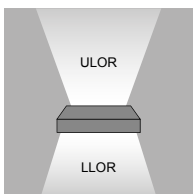


Illuminance

Unit: lx

Illuminance is the quantity of light illuminating a surface from all directions. Standard unit of measurement is lux (lx), which is lumen per square meter (lm/m^2).

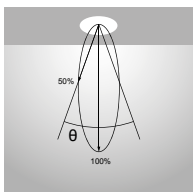
This is used to measure the brightness level of a working surface or an area. The illumination level is often represented with isolux-curves.



Light Output Ratio (LOR)

The ratio of the total light emitted by a luminaire to the total light output of the lamp(s) fitted into the luminaire. The light output ratio is always less than 1.

It is sometimes divided into an Upper Light Output Ratio (ULOR) and a Lower Light Output Ratio (LLOR).





Beam Angle (θ)

Unit: °




The beam angle defines the angular dimension of the light cone from directional lamps, it is measured between the points in the beam that are 50% of the centre peak intensity. It is an important parameter reference for spotlights and reflector lamps.

Explanation of IP Numbers for Degrees of Protection

Degrees of protection indicated by the first characteristic numeral

First characteristic numeral	Degree of protection	
	Short description	Brief details of objects which will be "excluded" from the enclosure
2	Protected against solid objects greater than 12 mm	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12 mm in diameter
4	Protected against solid objects greater than 1,0 mm	Wires or strips of thickness greater than 1,0 mm. Solid objects exceeding 1,0 mm in diameter
5	 Dust-protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment
6	 Dust-tight	No ingress of dust

Degrees of protection indicated by the second characteristic numeral

Second characteristic numeral	Degree of protection	
	Short description	Details of the type of protection provided by the enclosure
0	Non-protected	No special protection
3	 Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect
4	 Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effect
5	 Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect
6	Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities



Class I - Earthed

Protection against electrical shock by earthing



Class II - Double Insulated

The luminaire provides protection against electrical shock using both the base insulation and an additional or reinforced insulation.

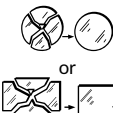


Class III - SELV

Supply by safety extra-low voltage provides protection against electrical shock.



European Community Mark



Replace any cracked protective shield



Beam angle



Rotating angle



Tilting angle



DIALux

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 plug-ins and photometric information.



12/F, Lu Plaza,
2-4 Wing Yip 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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