

RETAIL LIGHTING

FEBRUARY 2020



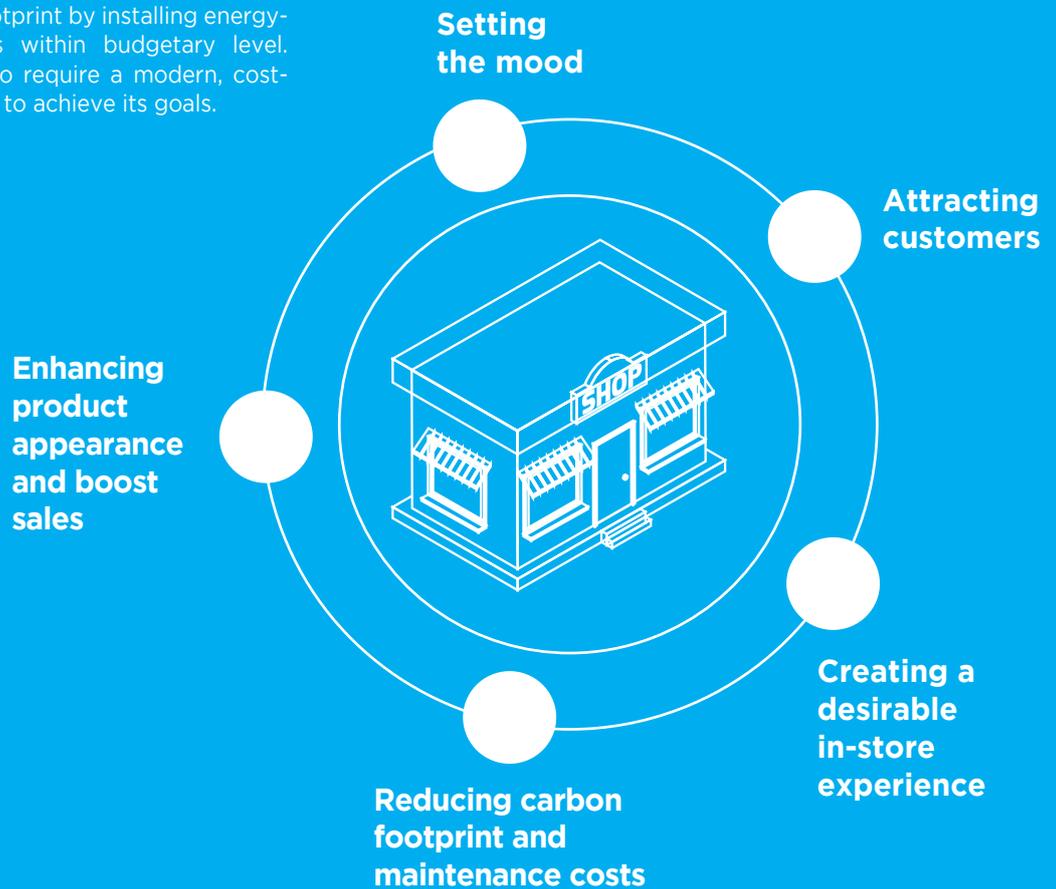


LIGHTING
INNOVATION

Optimal LED lighting solutions for your stores!

LEDs being the newest technological endeavour in the lighting industry are making strides because of their numerous advantages with its high energy efficiency and long lifetime. Today, LED lighting is being used everywhere, and its application ranges from residential, commercial to industrial.

In the competitive environment of the modern business world, the retail lighting landscape is constantly shifting. Retailers like hypermarkets, supermarkets and food specialists are facing the challenge in identifying the trend that can influence the purchasing behaviour of customers while reducing environmental footprint by installing energy-efficient LED lighting solutions within budgetary level. Hence, a retail business needs to require a modern, cost-effective and stimulating lighting to achieve its goals.





Why MEGAMAN®

Whether you are planning to give your existing retail store a revamp or opening a new one, here is how MEGAMAN® LEDs can make a difference.

Best-in-class Technology

LED technology is evolving rapidly, MEGAMAN® is committed to bring you the best in LED technology. MEGAMAN® innovative LEDs are technology-oriented, energy efficient, reliable and sustainable that makes them a great choice for retail spaces.

Innovation | Technology | Experience

MEGAMAN® offers a variety of LED luminaires and lighting solutions and understands the key parameters in LED technology.

Extraordinary Shopping Experience

Today's consumer food purchases span a continuum of transactional to experiential. MEGAMAN® designs and supplies retail lighting solutions that can help to create an appealing shopping experience. MEGAMAN® innovative LEDs does not just illuminate spaces but also creates inspiring environment. Be it in retail stores, shopping malls, warehouses and logistics, hospitality and office spaces, it is all about creating an experience with energy-efficient luminaires that accentuates the ambience, making a real impact. Besides, it can draw customers' attention towards key products. The right light can set the right mood and in return beat all the previous sales records.



Optics

High efficiency reflector optics with choice of beam angles, narrow or wide



LEDs

- Best-in-class LED technology
- High efficiency, LM80 compliant LEDs
- Best quality through proper binning for colour consistency, lumen output and voltage
- CRI Ra97 for ultra rich colour rendering
- Choice of colour temperature (CCT) in warm white, cool white and day light



Drivers

- Specially designed drivers conforming to safety and performance standards
- Protection against voltage surges
- Compact design with aluminum die-cast construction



Thermal Management

Effective thermal management design for longevity and consistent performance of LEDs

Future-proofed Lighting Solution

After the population of LED lighting, the requirement of customers will change from energy saving to the new applications. The adaptive lighting is often designed to capitalize on the existing technology and utilize the same underlying substrate features.

Everything we do is driven by best-in-class technology. Equipped with profound experience and expertise in energy-efficient lighting, MEGAMAN® innovative LED luminaires allow form and functional benefits for modern lighting design. For example,

- High CRI Ra97 for true colour rendering
- Enhanced colour applications option
- Wired and wireless control options
- Internal and external sensors
- Tunable white light options
- Toolless quick installation design and etc.
- Modular plug-and-play design approach luminaire
- High efficiency reflector optics with choice of beam angles wide variety of colour temperature and lumen output options
- Flexible choice of beam angles, CCT and lumens in one luminaire
- Easy and flexible installation through sliding stainless steel clips design
- Luminaires with retrofit bulbs and permanently integrated LED modules

“Adapt to fit” is a key factor that applies to lighting. Thanks to MEGAMAN® groundbreaking technologies, you can apply its future-proofed LED luminaires and lighting solutions in maximizing the appeal of your stores. They are highly adaptive to perfect surroundings in modern spaces and create a welcoming hospitality environment.

Trusted Partner of Lighting Solution

MEGAMAN® strives to push the limit of LED technology and ensures you with high quality energy-efficient lighting products. We have a motivated team of highly qualified and well-experienced professionals and experts who understand customers' requirements and work closely with you from concept development, lighting design, commissioning and on-time project delivery.

With industry expertise and reliability, MEGAMAN® is your trusted partner for energy-efficient lighting solutions for retail settings. Whatever your needs, we will help you create an inviting, positive customer experience with lighting that sells.



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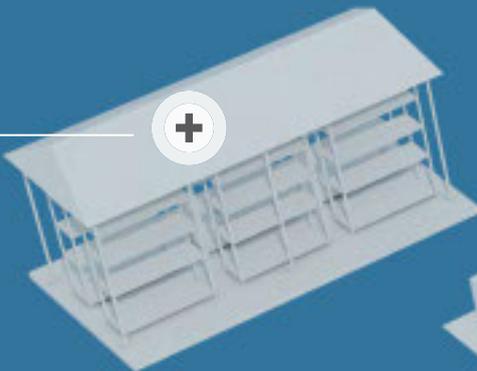
Retail Lighting Design



WAREHOUSE



FRESH FOOD



ENTRANCE



CHECK OUT

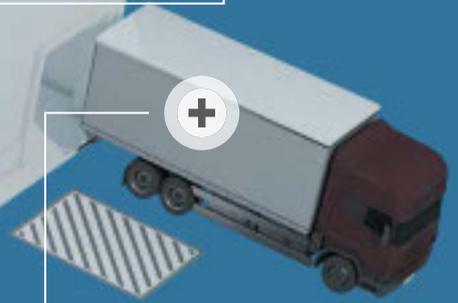




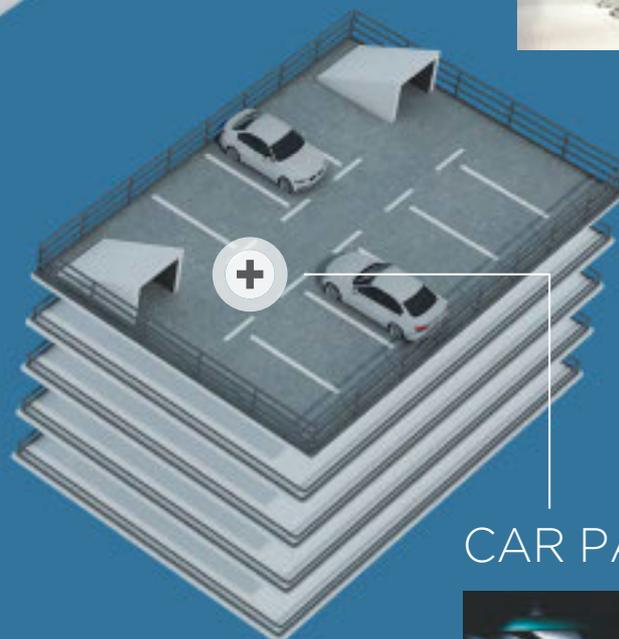
FASHION



WINE



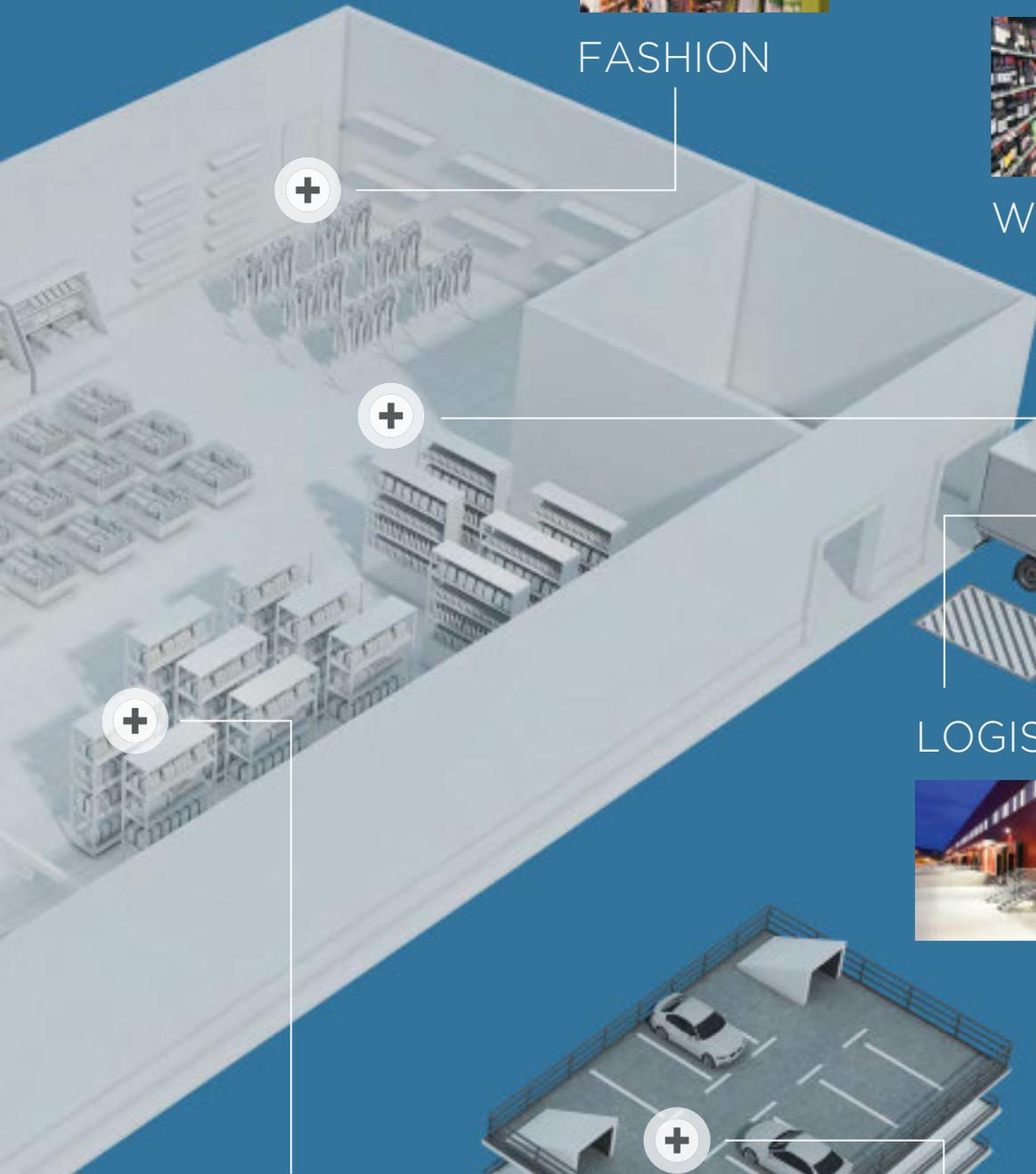
LOGISTICS



CAR PARK



GROCERY



THE RIGHT LIGHT FOR EACH FOOD

“Emphasize the freshness of products and stimulate purchase behaviours”

“Reduced carbon footprint and maintenance costs”

“Enhance the in-store experience with well-conceived lighting design”

“Create a visual journey for shoppers with MEGAMAN® lighting solutions”

“Establish a visually comfortable environment for evaluating merchandise”





A quality lighting scheme can make a positive difference in retail settings, by helping products stand out and enhancing their visual appeal in terms of colours, shape and texture. Many retail stores use a combination of ambient lighting and accent lighting. The deployment of lighting varies throughout the entire store. Our lighting experts are able to foster the in-store experience and attain customer loyalty by opting the right lighting recipes for each food that effectively brighten up each corner while consuming less energy.

MEGAMAN® offers a wide selection of LED luminaires with various colour temperatures, beam angles and illumination levels that enhance the attraction of merchandise by supporting their natural colours and highlighting certain tones. Used effectively, lighting can provoke more interest in your product displays. Customers can experience the energy-saving and expanded capabilities of MEGAMAN® innovative LEDs.



LIGHT FOR
ENHANCING
FRESHNESS

FRESH FOOD

MEGAMAN® is dedicated to delivering crisp and colourful display lighting for your store. There are several elements in retail environments need to be considered such as colour rendition, reflection, contrasts, and energy efficiency.

Colour perception is the most important visual parameter in a retail environment as it influences the perception of goods, buying decision and even the overall impression of the store.

Applying MEGAMAN® innovative LEDs with suitable colour temperature of white light from warm through neutral to cold for fresh products such as meat and fish, bread and pastries, fruit and vegetables is essential. Hence, these areas are illuminated using specific LED luminaires with high CRI values wherever applicable.

Fruits & Vegetables

The fruits and vegetables section often takes the centre stage in the retail stores. The lighting of fruits and vegetables should always emphasize the different shapes and colours of the products. Accent light is beneficial in this area. Lower the general lighting and add spotlights or recessed spotlights in the ceiling. These can enable you to work more with the atmosphere. If it is high ceiling, choose a spotlight with good light output.

There are many functions of MEGAMAN®'s integrated downlights, modular plug-and-play LED downlights as well as spotlights with different ceiling options. We also have specially developed lighting products like TRAVIS trunking system and GEO high bay luminaires enhancing products in these areas.

The colour of fruits and vegetables is far more appealing under natural light, closer to warmer shades. We recommend a colour temperature of 3000K. The MEGAMAN® LEDs featured with Ultra RichColour and RichColour options are ideal to support the vibrancy of rich natural colours with high CRI up to Ra97.

Meat & Cold Cuts

Meat and cold cuts must always look juicy and fresh, and colour rendering of the red is essential. Light temperature and natural colour rendering are important factors. It is beneficial to work with focused light and contrasts. For red meat, it is the best to choose a warm colour temperature.

	Colour Rendering Index (CRI)
Fruits & Vegetables	Ra90, Ra97
Meat & Cold Cuts	Ra97, High R9
Fish & Seafood	Ra90, Ra97, High R9



Ultra RichColour

MEGAMAN® Ultra RichColour (Ra 97) and RichColour (Ra ≥95) Series are designed to maximise the richness and quality of colours with high colour rendering of up to Ra97.

When it comes to white meat, it should always be displayed under cool white light.

A warm white full spectrum light rich in red tones enhances the natural colour of the meat. MEGAMAN® innovative LEDs featured with RichColour (Ra ≥95) are ideal for highlighting the freshness of meat while ensuring that white elements remain naturally white. The Ultra RichColour (Ra 97) is recommended to emphasize red colour tones even more. High CRI makes the food look vivid and attractive which always helps trigger customer purchase aspiration.

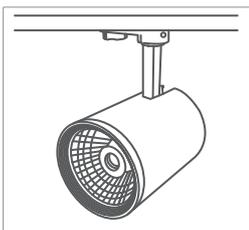
Fish & Seafood

Fish and Seafood are displayed where refrigerators and freezers are installed. White-fleshed fish look more appetizing when displayed in a blueish light. It is beneficial

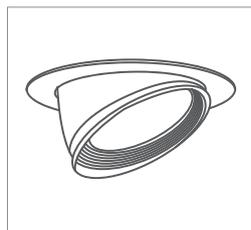
to have a colder light of 4000K or above. Cut fish with red flesh like salmon and shrimp, however, look best under warmer colour lighting to exhibit their pink hue. Whether cold or warm, the lighting should provide good rendition of red and white to bring out the best in all colours.

We often find these two groups of fish in a single area, but their divergent lighting coverage is not necessarily contradictory as cold and warm colours do harmonize quite adequately.

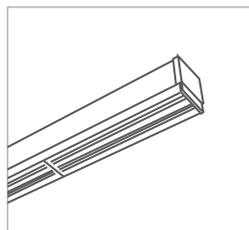
In cases where it is not possible to install two distinct sets of lights, we recommend a colour temperature of 4000K. For this area, we offer various integrated lightings to support the perception of freshness of these frozen products.



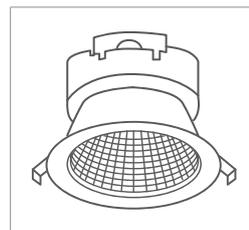
MARCO



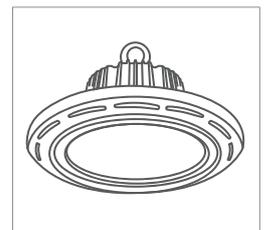
CARDO



TRAVIS



MILENA



GEO



LIGHT
FOR EVEN
ILLUMINATION

GROCERY

Supermarkets have a large shopping area and therefore need an even illumination for orientation and to ensure that all products are sufficiently visible. The ceiling lights and LED spotlights are very beneficial. A healthy balance between light and shadow creates an optimal validity and conveys high quality of light to guide customers around the store.

MEGAMAN® TRAVIS continuous lighting lines with LED technology are ideal for open spaces in the store, arranged parallel to the shelving. Positioned centrally over the aisles, the fixtures utilize double asymmetric reflectors that direct light onto the entire shelves and floor, providing an ideal amount of vertical illumination. This way no light is wasted, hence fewer light sources are needed to provide sufficient levels of illumination.

Perhaps supermarkets may opt to improve their carbon footprint by swapping out existing fluorescent tubes to

LED T5 or T8 Tubes. It helps to save substantial amounts in energy and more importantly, result in better, brighter lighting throughout the store with low flickering and high efficacy.

Shopping groceries is all about engaging senses. Aisles need to be brightly lit to ensure customer safety and allow customers to maneuver from shelving to end aisles. Direct light to where it is needed with glare-free and tunable white of BERTO LED panel, eliminating shadows and dark spots as well as adding sparkle to shelved products.

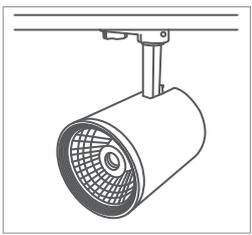
Accent lighting of MARCO LED spotlights can emphasize specific areas or objects in the store so that customers can be tempted with promotional offers. The MARCO range is featured with our Dual Beam Technology (DBT), offering design flexibility of changing the beam angles onsite from 24° to 45°. These goods should always be illuminated to attract customers' attention and natural colours are not



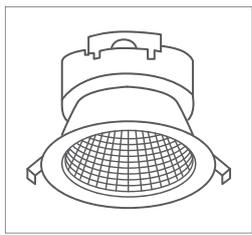
Dual Beam Technology (DBT) is our patented, user-friendly beam shaping technology applied to LED luminaires, providing two beam angles in one luminaire. This innovative design is first featured in our MARCO Integrated LED Track Light.

distorted. Here MILENA modular downlights with a high colour rendering are particularly well suited.

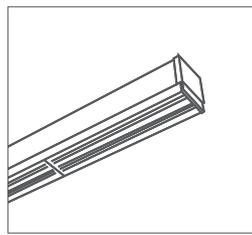
All the lighting recipes improve grocery area lighting levels and uniformity with minimal maintenance and operational costs.



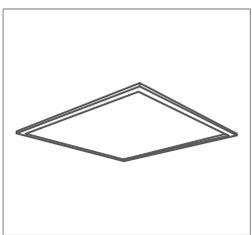
MARCO



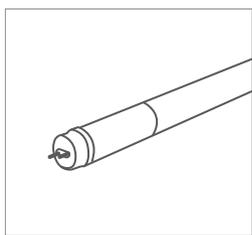
MILENA



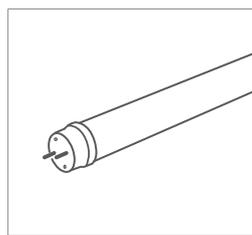
TRAVIS



BERTO



T5



T8



LIGHT FOR
RELAXING
AMBIENCE

WINE

Create an intimate atmosphere at wine area is essential to draw customers in and facilitate their navigation of products. Bring out bold reds with warm illumination, and make whites appear refreshing and cool with crisp natural light. Preserve your alcohol quality with no harm of UV rays. The bottles are often placed close to each other on shelves. MEGAMAN® TRAVIS LED Trunking light with L/R asymmetrical angle lens, makes flexible lighting possible in a store and the asymmetrical wall washer function gives a comfortable lighting on the walls.

In the more exclusive wine area, it can be flattering to use accentuating MARCO spotlights embedded with high CRI and Dual Beam Technology (DBT) of changing beam angles on the fixture, ZEKI multi-head gimbal to create more

dynamics and exclusivity and ABBY pin-hole downlight with glare-free for visual comfort. The atmosphere can be enhanced with warmer colour temperature by working creatively with Dim to Warm or U-DIM capabilities.

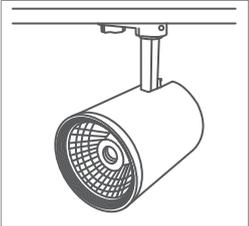
The lighting should enhance the customer experience. Work with identifying elements such as MILENA modular downlight with selective CCT and lumen on one fixture, along with reflector and diffuser options; KARA downlight with superb heat dissipation; accent light with Zeki or CARDO recessed adjustable downlight with high CRI to further accent the area. Perfectly installed recessed lighting can accentuate aisles and corridors while giving the retail store a sophisticated and stylish look.

U-DIM™

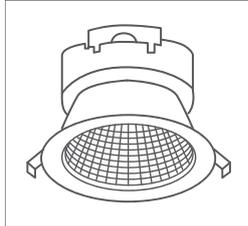
Compatible with BOTH leading-edge and trailing-edge conventional dimmers for 100-5% linear dimming.

Dim to Warm

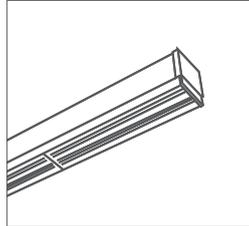
MEGAMAN® Dim to Warm series has improved dimming performance following exactly the dimming curve of familiar halogen and incandescent lamps



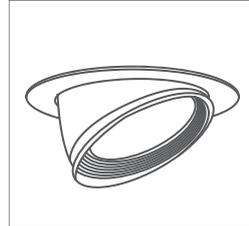
MARCO



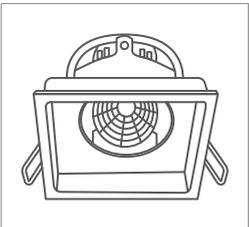
MILENA



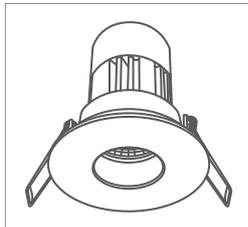
TRAVIS



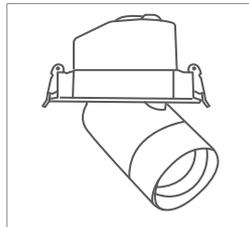
CARDO



ZEKI



ABBY



FRANCO



DBT

Dual Beam Technology (DBT) is our patented, user-friendly beam shaping technology applied to LED luminaires, providing two beam angles in one luminaire. This innovative design is first featured in our MARCO Integrated LED Track Light.



LIGHT FOR VIVID DISPLAY

FASHION

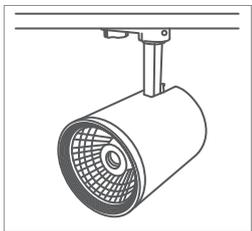
Blending modernity and versatility, the collections of fashion area provide a wide range of apparels, incorporating day to sportswear, knitwear, seasonal collection and accessory line that includes bags, footwear and leather goods. By accommodating the multi-faceted lifestyle of customers, a good lighting design is an important aspect in retail operation. It helps to attract customers with the greatest impact, stimulate buying mood and contribute to a significant energy reduction.

To accentuate the real colours of the clothing and reflect their unique texture and fabrics, spotlights and downlights are adopted within the fashion area. MEGAMAN® CARDO recessed adjustable downlights are used in combination as ceiling lighting for general illumination. The fixtures allow easy adjustment of beam angle to create different ambience and lighting effects - brighter for spring/summer or moodier for fall/winter.

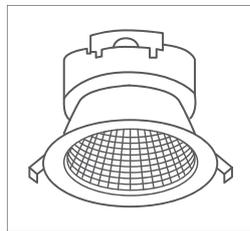
Another option is MILENA modular downlights with selectable colour temperature and lumen on the fixture, along with reflector and diffuser options.

Accent lighting like TECNON and MARCO tracklights are used to attract the customer's eye to the targeted display. These fixtures are designed with a variety of beam angles, CCT and luminous flux options to provoke the dynamic presentation of the garments. By offering high CRI up to Ra97, they can bring optimum recognition of colours and fabrics and generate a memorable experience to customers. From making the products look visually appealing to increasing the sales, accent lighting can do it all.

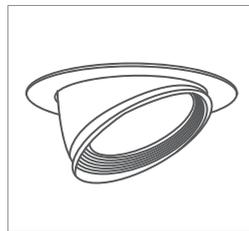
MEGAMAN® ZEKI multi-head gimbal and ABBY pin-hole downlight also allow mixed combination of modular light source and glare-free control that fits in any settings.



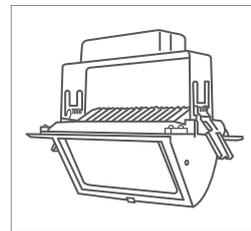
MARCO



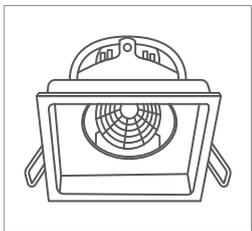
MILENA



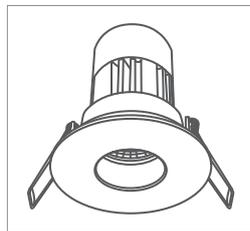
CARDO



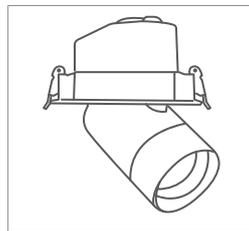
KARA



ZEKI



ABBY



FRANCO

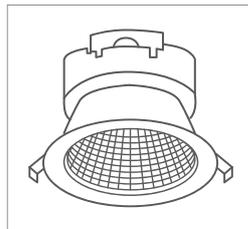


LIGHT FOR INVITING ATMOSPHERE

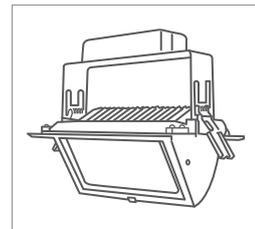
ENTRANCE

The entrance area is used to present the retail store as the first impression. It entices customers in, tempting them to make both routine and impulse purchases.

Create an inviting atmosphere and use lighting to enhance the architecture with MEGAMAN® KARA adjustable LED downlight and MILENA modular plug-and-play downlight. They can illuminate the entrance space in style, maintaining the high quality of ambient lighting and glare control for bright and clean illumination.



MILENA



KARA





LIGHT
FOR VAST
ILLUMINATION

CHECK-OUT

Areas like the billing counter needs to be lit well at all times. This is not only a place where to pay your merchandise, it is also a workspace for the staff. Add good lighting comfort and work lighting over the checkout. It is important to have sufficient lighting both on the floor and the conveyor to create a satisfying environment.

Ensure customer loyalty with a well-designed checkout experience, use MEGAMAN® GABIO pendant louvre with lit X, L and T junctions to highlight and navigate to the cashier desk. It allows combinations of direct and indirect lighting with low glare rating of UGR <19 for high visual comfort. This is a perfect area to inspire and make the customers spontaneously buy chewing gum or sweets.

Clear illumination creates a pleasant space where customers can easily check their change and meets all working standards for staff. MEGAMAN® BERTO LED panel promises zero flicker and comes in both high efficacy and colour changing with dimming features, thanks to our groundbreaking tunable white technology. It offers you the flexibility to change the colour temperature after the merchandise on display.

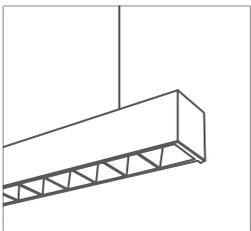
Versatile in nature, recessed lighting powered by our MILENA and CARDO range can be used in various ways. Whether one wants to use it as ambient lighting or spot lighting, it works best for all. Recessed lighting fixtures come in various shapes, finishes and colours, they can be used according to the functional needs and aesthetical appeal of the interior design. Replacing old lights with our GEO LED high bay has many benefits. It will be more powerful and extremely efficient. Its single point installation with a hook mounting makes it as an ideal replacement of existing chain suspension units. Reflectors and refractor are available for better glare control. In an effort to make LED T5 and T8 tube fit into existing linear fluorescent fixtures (for retrofit purposes), our lighting experts can help you with cost/benefit analysis and you might see the ROI faster than you expect.

The adoption of MEGAMAN® LED lighting solution truly reveals its forward-thinking vision for a retail store. We aim to provide your customers a tailored shopping climate that can help increase traffic in the store and gain loyalties. The right light can help making a purchase decision and make the customers want to come back to the store. With different lighting recipes for each area, the light is

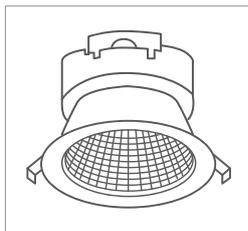


planned to enhance all the customer experience will have in the store. The industrial areas are places of heavy-duty work and there is need to use lights that are sturdy enough to withstand extreme working conditions and high temperatures while consuming less energy. The industrial lights are therefore expected to be sturdy, durable and easy to maintain.

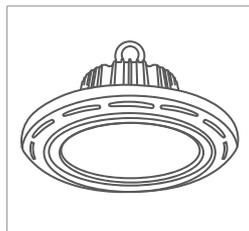
MEGAMAN® understands the role of lighting and how it should be utilized to give the best possible illuminance. We offer a host of various lighting fixtures that are suited for varied needs.



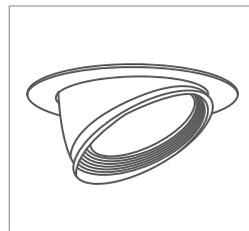
GABIO



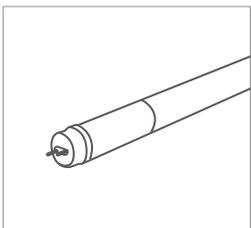
MILENA



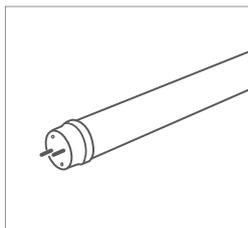
GEO



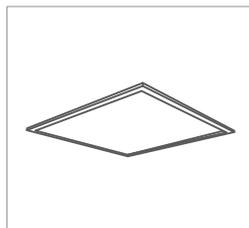
CARDO



T5



T8



BERTO



LIGHT FOR LARGE SPACE

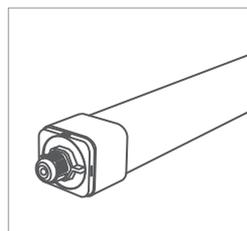
CAR PARK

Car parks are usually large spaces and an evenly-lit car park will help to ensure its signage, parking spaces and vehicles, entry and exit lanes, doorways, lifts and stairs are clearly visible whenever people are present.

People must feel safe when walking through and circulation routes should be well-lit. The safety aspect should always be focused on and it can be avoided with continuous reliable lighting. Choosing MEGAMAN® DINO 2 LED batten for car parks will conserve energy and reduce operating and maintenance costs. Its emergency lighting and microwave sensor options should be used where possible to further ensure safety. This luminaire is great to use in these spaces, so it is emitted at the right time and in the right place.

Outdoor car parks require bright night-time lighting. MEGAMAN® energy-efficient LEDs are the perfect option, they simply guide and comfort your customers with well-lit

parking areas. Our DINO 2 LED batten will help to satisfy a wide range of lighting requirements as its extremely wide beam angle can extend to further areas, illuminating darker spaces to prevent hazards and ensure safety for all.



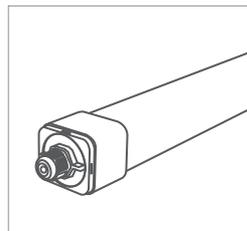
DINO 2



OUTDOOR CANOPY

Brighten your entry of outdoor canopy lighting in occasion of special festivals, seasonable promotions and temporary packing location. It requires superior waterproof quality, flexible installation with high IP rated index.

MEGAMAN® DINO 2 integrated LED batten is housed with a super sleek and robust body and delivers high lighting performance with 160° for optimal light spread. It demonstrates savings of up to 80% in energy and appreciate the quick installation. It is suitable for indoor and outdoor applications including warehouses, outdoor canopies and car parks.



DINO 2



LIGHT
FOR HIGH
CEILING

LOGISTICS

Floodlight for your logistics areas can either make or break the look you paid for initially. It enhances your outside space and adds extra lighting for better visibility along paths and walkways. It also helps with security.

MEGAMAN® TOTT LED floodlight is very long lasting and designed to meet diverse application requirements. It can be used to illuminate the entrance of the facility and make a welcoming glow, the same fitting can be used in the rear. Its robust housing is featured with IP65 and IK08 ratings against harsh environments.



TOTT



WAREHOUSE

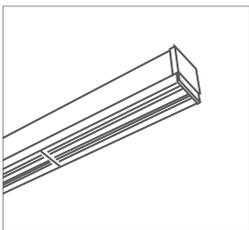
Warehouses are critical part of the overall supply chain. They are the points where the product pauses and is touched, consuming both space and labour hours. They need to be brightly illuminated to ensure aisles are visible for stock picking along with ensuring staff safety.

The efficient operation of a warehouse facility depends on bright and reliable lighting. The right light improves the mood of the workers and boosts productivity. MEGAMAN® GEO high bay luminaire with high durability and brightness is widely used. It ensures a uniform and even light distribution throughout the facility.

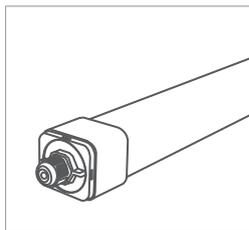
TRAVIS trunking system is also an ideal lighting solution for warehouse due to its greater efficiency and longer life. It

offers maximum adaptability and numerous combination possibilities to form continuous lighting system. The lights can really enhance the ambience, making the whole space look more comfortable and safe. Its double asymmetric and asymmetric distribution cater for special applications to highlight areas in specific side angles.

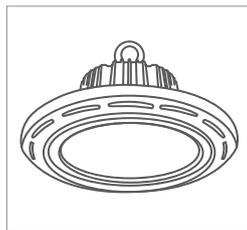
If the area is historically and architecturally significant, retrofit may be the only option to retain the appearance. Our DINO 2 integrated LED batten offers an ideal replacement of traditional T5 and T8 battens. It comes with IP65 water-proof feature, simple installation and significant energy savings. The retrofit offers aggressive payback periods.



TRAVIS



DINO 2



GEO

OUR PRODUCTS





Retail lighting is all about creating the right mood and perfect ambiance for shoppers right from the moment they step in. MEGAMAN® luminaires create stunning visual experiences and add a touch of vibrancy to food and retail stores, shopping malls, showrooms, art galleries and museums.

Explore our range of luminaires to find out just how you can create the perfect shopping environment for customers and work environment for the employees.



TRAVIS

Specifications

Type of luminaire	Linear profile & trunking
Lumen range	3600-7000lm
Beam angle	Double asymmetric, Asymmetrical, 30°, 60°, 120°
Colour temp	3000K, 4000K



LED

MEGAMAN® TRAVIS offers maximum adaptability and numerous combination possibilities to form a continuous lighting system perfect for all commercial area and industrial area. The collection features quick and easy installation methods with its trunking and tracklight model. Its “Turn and Lock” trunking system is compatible to major brand’s

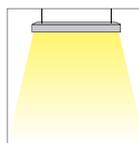
mounting rails, enabling tool-less in-situ installation. Its ultra-thin driver design minimize the distance between the light engine and the track to only 12mm, creating sophisticated appearance. Its double asymmetric and asymmetric distribution cater for special applications, to highlight areas in specific side angles.

TRAVIS

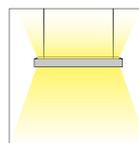
Linear profile & trunking



Various beam options for different ceiling height applications



Direct lighting



Direct-indirect lighting

GABIO

Specifications

Type of luminaire	Architectural linear LED Suspension lighting fixture
Lumen range	Direct light distribution: 1900-3500lm Direct-indirect light distribution: 2000-3500lm
Beam angle	90°
Colour temp	3000K, 4000K, 6500K
Remarks	Direct & indirect lighting options, Tunable white



LED

MEGAMAN® GABIO is a linear system allowing combinations of direct and indirect lighting. With its louvre cell design, MEGAMAN® GABIO provides direct lighting with a low glare rating of UGR <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.



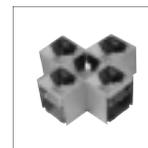
Linear-joint



L-joint



T-joint



X-joint

GABIO

LED linear profile





MARCO

Specifications

Type of luminaire	LED track light
Lumen range	2600-5000lm
Beam angle	12°, 25°, 45°
Colour temp	3000K, 4000K
Remarks	DBT, Ra90, Ra97, SDCM≤3



MEGAMAN® MARCO is a range of LED track light designed with excellent lighting performance, great functionality and consistency in design. Equipped with MEGAMAN® groundbreaking LED lighting technology - the Dual Beam Technology (DBT), it is dedicated to enhance the flexibility of beam angles in one single luminaire and help to facilitate

inventory management. DBT is an innovative approach for switching the size of the light spot with a finger press on lens. With this technology one can shape the light spot of the lamp / luminaire from a narrow beam angle to a wider beam angle. In addition and Ultra Richcolour options are also available within the range.

MARCO

Integrated LED track light



MARCO MINI

Specifications

Type of luminaire	LED track light
Lumen range	720-1000lm
Beam angle	12°, 24°, 36°
Colour temp	2800K, 4000K
Remarks	DBT, Ra90, Ra97, SDCM≤3

MARCO MIDI

Specifications

Type of luminaire	LED track light
Lumen range	1500-2200lm
Beam angle	12°, 25°, 45°
Colour temp	3000K, 4000K
Remarks	DBT, Ra90, Ra97, SDCM≤3



FRANCO

Specifications

Type of luminaire	LED recessed downlight
Lumen range	2020-2140lm
Beam angle	18°, 45°
Colour temp	3000K
Remarks	Ra90



FRANCO is a LED recessed downlight allowing tool-less adjustment in beam angle with its zoom-lens system via the fixture directly. Its adjustable arm have $\pm 90^\circ$ vertical tilting angle and 330° horizontal rotation angle for multidirectional

lighting, maximizing flexibility and convenience for product user. Its excellent lighting performance with Ra90 ensures best solutions for retail and general lighting applications.

FRANCO

Integrated LED track light





CARDO

Specifications

Type of luminaire	Adjustable LED downlight
Lumen range	2650-5000lm
Beam angle	15°, 35°, 60°
Colour temp	3000K, 4000K
Remarks	Ra97



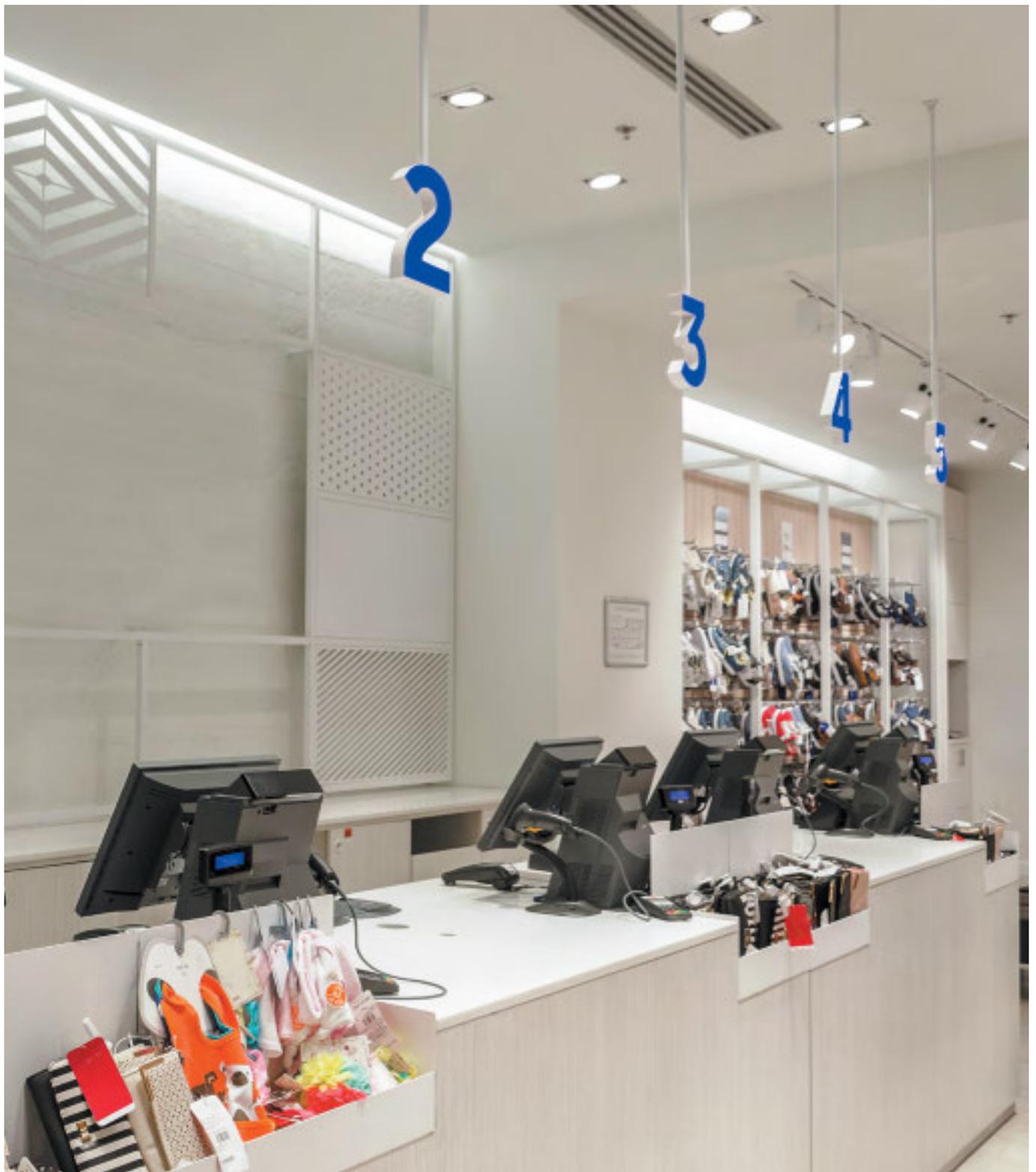
LED

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 aluminum reflectors of 15°, 35° and 65° enhancing flexibility on site and reducing stock in the supply chain.

CARDO

Adjustable LED downlight





KARA

Specifications

Type of luminaire	Adjustable LED downlight
Lumen range	3800-4100lm
Beam angle	100°
Colour temp	3000K, 4000K



LED

KARA is an adjustable LED downlight with 60 degree gimbal angle bringing great flexibility in design. The model comes with constant current driver and high efficiency SMD chips

for stable lighting performance. Die-cast aluminium heat sink allows optimal heat dissipate and thermal management, giving the lamps a longer life.

KARA

Adjustable LED downlight





ZEKI Ø50

Specifications

Type of luminaire	Multi-head gimbal
Lumen range	500-900lm
Beam angle	24°, 36°
Colour temp	2800K, 4000K
Remarks	U-Dim, Dim to Warm



LED

MEGAMAN® ZEKI is a multi-head gimbal with 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. The gimbal

construction provides multi-directional tilting. The TECOH® THx comes with the Dim to Warm technology and U-DIM™ technology, enabling it available for various applications and requirements.

ZEKI

Multi-head gimbal



ZEKI Ø111

Specifications

Type of luminaire Multi-head gimbal

Lumen range 2000-3200lm

Beam angle 15°, 24°, 45°, 60°

Colour temp 3000K, 4000K





ABBY

Specifications

Type of luminaire	Fixed and wall wash pin-hole downlights
Lumen range	500-900lm
Beam angle	24°, 36°
Colour temp	2800K, 4000K
Remarks	U-Dim, Dim to Warm



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. Designed with modular heads and interchangeable trim, the series cater for different

combinations of pin-hole and wall wash features, and easy stock management.

The TECOH® THx comes with the Dim to Warm technology and U-DIM™ technology, enabling it available for various applications and requirements.

ABBY

Fixed and wall wash pin-hole downlights





DINO 2

Specifications

Type of luminaire	Integrated waterproof LED batten
Lumen range	1750-6500lm
Beam angle	160°
Colour temp	3000K, 4000K
Remark	Emergency pack, PIR sensor module



LED

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...) when the switch is off.

The MEGAMAN® DINO 2 emergency lighting module provides enough light for escape using its internal batteries in the event of power failure.



DINO 2

Integrated waterproof LED batten

330°



Wide 330° exit window,
offers an even light distribution



MILENA

Specifications

Type of luminaire	Modular LED downlight
Lumen range	550-3300lm
Beam angle	90°
Colour temp	3000K, 4000K
Remarks	Dual CCT, Dual lumen output



LED

MEGAMAN® MILENA is a modular downlight unit consisting of dual-lumen output & dual-CCT LED light engine, various metal housing and reflector or diffuser options, allowing

tool-less assembly in-situ. The luminaire offers maximum visual comfort by high cut-off angle for better glare control and low flicker to avoid eye fatigue.

MILENA

Modular LED downlight





TOTT

Specifications

Type of luminaire	Outdoor integrated LED floodlight
Lumen range	900-10000lm
Beam angle	100°
Colour temp	3000K, 4000K, 6500K
Remarks	IP65, IK08, PIR sensor



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.

TOTT

Outdoor integrated LED floodlight



TOTT S



TOTT M



TOTT L



TOTT XL



GEO

Specifications

Type of luminaire	Integrated LED high bay
Lumen range	10500-21000lm
Beam angle	120°
Colour temp	4000K
Remarks	DC1-10V dimming / DALI dimming Optional 70°, 90° reflector IP65, IK08, Low flicker ≤8%

LED

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.

GEO

Integrated LED high bay





BERTO

Specifications

Type of luminaire	LED panel
Lumen range	3100-3400lm
Beam angle	90°, 110°
Colour temp	3000K, 4000K, 6500K
Remarks	Flicker free ≤3% driver, UGR ≤19, UGR ≤22 Loop through

LED

MEGAMAN® BERTO is an ultra slim integrated lighting solution that facilitates easy installation and maintenance. It delivers a high luminous efficacy up to 108lm/W - matching the lighting levels of 3 x 18W T8 and 3 x 24W HE T5 fluorescent modular fittings. 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.

MEGAMAN® has incorporated a brand new technology, Tunable White, that offers LED panels with a colour changing and dimming feature which can be operated independently. The LED panels dim seamlessly from 100% down to 10% brightness, offering great flexibility.

BERTO

LED panel



BERTO LED panel with flicker free and uniform lighting distribution

LED T5

Powerful luminous flux to fluorescent t5 tubes



LED T5

Specifications

Type of LED	T5
Lumen range	220-240V (Line voltage) 990-5100lm 50-125V (Electrical ballast compatible) 990-5600lm
Beam angle	220-240V 180° / 50-125V 230°
Colour temp	3000K, 4000K, 6500K
Remarks	Flicker ratio $\leq 8\%$



LED

The MEGAMAN® T5 LED Tube series is commonly used in offices and stores and commercial buildings. The T5 LED Tubes have lower energy consumption, smaller size and longer life as compared to traditional counterparts. They can

fit against straight into existing luminaires and require no wire replacement, making them an excellent cost-efficient choice.

LED T8

Powerful luminous flux to fluorescent t8 tubes



LED T8

Specifications

Type of LED	T8
Lumen range	830-4000lm
Beam angle	90°, 110°
Colour temp	3000K, 4000K, 6500K
Remarks	Flicker free $\leq 3\%$ driver, UGR ≤ 19



LED

MEGAMAN® LED T8's high efficacy of up to 167 lm/W and long lifetime of up to 50,000 hours, with even light distribution achieved by wide 330° exit window, can closely resemble traditional fluorescent T8 tube.

For this collection, AC & DC voltage are also compatible and can work well with magnetic ballast.

About MEGAMAN®

Originated from Germany in 1994, MEGAMAN® is a global brand in high performance and energy-efficient lighting products. We innovate and design bespoke luminaires from dedicated factories in Xiamen. Our lighting products are supplied through worldwide distribution network.

MEGAMAN® offers one of the broadest and technically advanced lighting product portfolios, proving quality solutions for the retail sector. We understand lighting for retail environments, and are on hand to deliver the best lighting solution to showcase your business. As a one-stop solution provider, MEGAMAN® has worldwide project teams and consultants who discuss and advise on the best lighting options available, along with a detailed forecast ROI. We harness the power of LED lighting advice from planning, installation to after-sales service for a perfectly orchestrated project and make sure a lighting that sells.





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