

M900 LED weatherproof batten for carpark

A modular LED batten light design for replacement of traditional tubular fluorescent or LED lamp weatherproof batten for indoor and outdoor public carpark application. The luminaire is designed in accordance with SS531 standard.



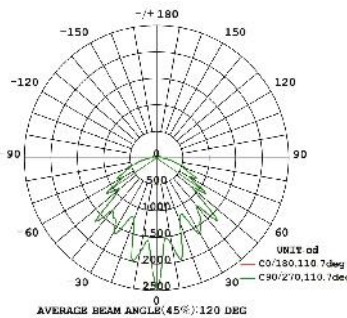
-) **Waterproof dustproof and anti-corrosion**
-) **Luminous performance complies with SS531**
-) **IK06 mechanical impact compliant**
-) **Robust housing structure**
-) **Highly efficient in thermal management**
-) **Very low cost of maintenance**

Physical Characteristic

Construction of housing	The housing is fabricated by 6063 aluminium sheets fitted with milky white polycarbonate diffuser and end-cap.
Diffuser	Made of Mitsubishi polycarbonate material that featuring with self-extinguishing property and superior impact strength. It is adaptable to rugged environmental with temperature resistant capability from -40 ~ +120°C.
Installation	Fitting and accessories for either surface-mount or drop-down installation are available.
Ingress protection	IP66 rating is compliant
Mechanical impact	IK08 rating is compliant
Operation temperature	-20°C ~ +50°C
Operation humidity	Rh ≤95% @ -20°C to +50°C
Rated life span	>50000 hours (L70 @IED LM80)
Harmonic distortion THD	15%
Certification	EMC, LVD, RoHS
Optional functionality	Microwave motion sensor, dimmer available
Emergency battery pack	PSB/TUV approved type (optional)

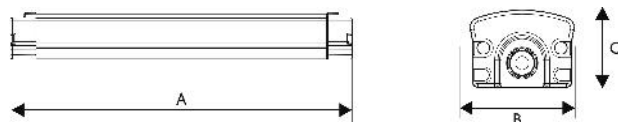
Light Characteristic

Light source	High intensity SMD2835
Luminous efficiency	≥100~115 lumen per watt
Beam angle	120 degrees
Color rendering index	≥80 Ra
Correlated color temp	3000K (K3); 4000K (K4); 5000K (K5)
Carpark illumination	Section 27 of SS531 standard compliant



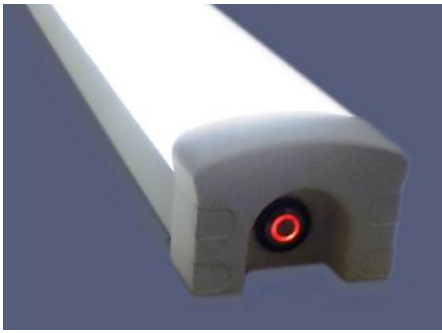
Electrical Characteristic

Input power	100~277VAC, 50/60Hz
Power supply	IP66 LED driver (inside the cavity of fitting)
Power factor	≥0.95
Power efficiency	≥88%
Operating voltage	34~40VDC
Cable grand type	PTM16 for 300/500V neoprene wire



Product Specification

Model #	Wattage		Luminous Efficacy (lumen)	Overall Size (mm)			Carpark Application	
	Rated	System		A	B	C	Zone/Area	Illuminance (Eav)
M9060R-078W10KX	10.0W	10.5W	1000~1200	600	90	70	Packing bay	75 lux (Eav); 30 lux (Emin)
M9120R-117W15KX	15.0W	15.8W	1500~1800	1200	90	70	Access lanes	75 lux (Eav); 30 lux (Emin)
M9120R-156W20KX	20.0W	21.1W	2000~2400	1200	90	70	Pedestrian area and stair	100 lux (Eav); 38 lux (Emin)
M9120R-208W30KX	30.0W	31.6W	3000~3600	1200	90	70	Driveway	200 lux (Eav); 76 lux (Emib)
M9120R-260W40KX	40.0W	42.1W	4000~4800	1200	90	70	Ramp, corridors & intersection	150 lux (Eav); 75 lux (Emin)
M9120R-312-W50KX	50.0W	52.6W	5000~6000	1200	90	70	Ramp, corridors & intersection	165 lux (Eav); 85 lux (Emin)



M900B series

(the red color indicator is also a test switch)

Additional features

-)] **M900B series:** The luminaire could be fitted with TUV/PSB approved type power conversion device with either 2 hours or 3 hours rating in compliances with CP19 requirement.
-)] **M900S series:** Microwave motion sensor could be completely hidden inside the fitting for detection of moving objects to turn on/off of the luminaire that the duration could be programmable.
-)] **M900D series:** Microwave dimmer also could be completely hidden inside the fitting to reduce the illuminance when no moving objects are detected, which is programmable.

Installation

)] The stainless steel convex bracket

The luminaire is designed for either ceiling mounted or suspended installation. Two pieces of stainless steel convex spring brackets could be simply clipped to the glove provided by the fitting and further secured by PM4 x 40mm tightening screws after clip-on (see picture below).

Two ellipse holes on top of the spring convex bracket are provided for concrete ceiling mounting purposes. Whereas, the round hole at the centre would be used for mounting the wire or steel rod for suspended installation.



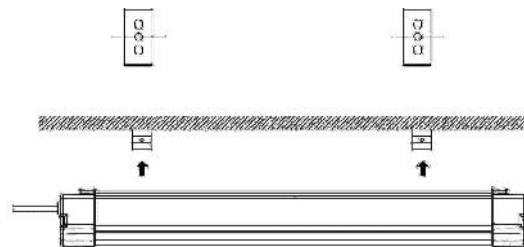
)] Surface-mounted installation

Step 1: Mounting two convex brackets to the concrete ceiling by M6 self-taped screw with wall plug at an adequate distant as shown in picture on right.

Step 2: The groove as provided by the fitting could be easily seized the luminaire with the spring convex bracket.

Step 3: Tightening the PM4 x 40mm security screw to the spring convex bracket as shown in picture above.

Step 4: Connect the grid power supply with the luminaire to complete the installation.



)] Suspended installation

Step 1: Secure the mounting bracket of the suspended steel rods or pipes to the concrete ceiling.

Step 2: Fastening the top end of the steel rods or pipes of specific drop-down length with the mounting brackets.

Step 3: Connect the bottom end of the steel rods or pipes with the centre round hole of the convex bracket.

Step 4: Seizing the luminaire to the groove as provided by the fitting and tightening the PM4 x 40mm security screws to the spring convex bracket.

Step 5: Connect the grid power supply with the luminaire to complete the installation.

