

 **PIERLITE**®



**PIERLITE
MINEMASTER SB**

CONVEYOR AREA LIGHT

A BRIGHT FUTURE.

With a 70-year history synonymous with the evolution of the lighting industry, Pierlite is recognised as the market leader in Australia and New Zealand for commercial, industrial and healthcare lighting systems.

Pierlite is leading the technology curve with the southern hemisphere's largest dedicated Lighting Innovation Lab. Our dedicated and experienced team of lighting designers, engineers and product specialists deliver cutting edge lighting solutions, agile product development, and comprehensive testing that exceeds Australian compliance standards, ensuring the highest quality to our customers.



MINEMASTER SB CONVEYOR AREA LIGHT



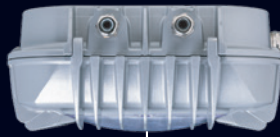
A conveyor area light designed and developed in Australia for tough aussie conditions. Providing energy savings and a reduction of on-site maintenance costs for the mining industry.



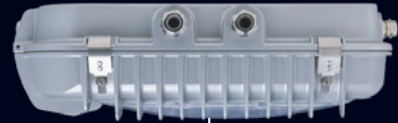
FEATURES & SPECIFICATIONS



SPIGOT ENTRY



CABLE ENTRIES (SURFACE MOUNT)



IP66
Ingress Protection Rating



IK10
Impact Rating



86,000hr
Lifetime (L70/B10)



Ta0-50
Operational Temperature Rating



Turtle Friendly



10kV
Surge Protection



DALI
Dimmable



Designed for
Tough Australian Conditions

Self-cleaning design with bird proofed clips

Earth leakage 0.15mA

Available in emergency: DALI and self-testing

Pressure die-cast LM6 marine grade aluminium body with a powder coated paint finish

27mm to 34mm spigot entry with dust cover

Salt Spray Testing: 2,500 hours

Min 142lm/W to 151lm/W

Cable entry (spigot mount)
1x 20mm – cable diameter size
8mm – 13.5mm +/- 0.5mm

Cold start 10A (width=46µs
Measured at 50% Ipeak) at 230VAC

Optional surface mount kit and onsite replaceable gear trays

4.5m 1KV Heavy Duty flexible orange circular cable

Vibration and rough service tested

ULOR = 1.2% @ 5° Tilt (Asymmetrical)



SPECIFICATIONS

	MRASLSD4T24	MRASLSDAT24	MRASLSD4T54	MRASLSD4M2T24	MRASLSDAM2T24	MRASLSD4M2T54
Type of Protection	Class I luminaire					
Ingress Protection Rating (IP)	IP66					
Impact Rating (IK)	IK10					
Insulation Contact Rating (IC)	N/A					
Nominal Voltage	220V to 264V~					
Nominal Frequency	50/60 Hz					
Number of Wattages Per Fitting	6 per Fitting Refer 6 Selections					
Wattage	70W/ 60W/ 50W/ 40W/ 31W/ 27W	70W/ 60W/ 50W/ 40W/ 31W/ 27W	70W/ 60W/ 50W/ 40W/ 31W/ 27W	70W/ 60W/ 50W/ 40W/ 31W/ 27W	70W/ 60W/ 50W/ 40W/ 31W/ 27W	70W/ 60W/ 50W/ 40W/ 31W/ 27W
Lumen Output	9717lm / 8630lm/ 7332lm/ 5947lm/ 4766lm/ 4216lm	6417lm/ 5913lm/ 5078lm/ 4219lm/ 3422lm/ 3047lm	10380lm/ 9041lm/ 7664lm/ 6294lm/ 5083lm/ 4518lm	9717lm/ 8630lm/ 7332lm/ 5947lm/ 4766lm/ 4216lm	6417lm/ 5913lm/ 5078lm/ 4219lm/ 3422lm/ 3047lm	10380lm/ 9041lm/ 7664lm/ 6294lm/ 5083lm/ 4518lm
Efficacy	Up to 156lm/W	Up to 112lm/W	Up to 167lm/W	Up to 156lm/W	Up to 112lm/W	Up to 167lm/W
Power Factor	>0.9					
Surge Protection Rating	L-N 10KV/5KA, L-E: 10KV/5KA, N-E: 10KV/5KA					
Line Current	0.3A	0.3A	0.3A	0.32A	0.32A	0.32A
Inrush Current	Cold start 10A (Width=46µs Measured at 50% Ipeak) at 230VAC					
Earth Leakage	0.15mA					
Rated Operating Ambient Temperature	-25 to +50°C			0 to +50°C		
LED Lifetime	Rated 84,000 Hours (L70/B10) +50°C Rated 57,000 Hours (L90/B10) +50°C					
Emergency Battery Design Life	Lithium Iron Phosphate Battery – 10 Years					
Colour Temperature	4000K	1850K (Amber)	4000K	4000K	1850 (Amber)	4000K
Colour Rendering Index (CRI)	80	54	80	80	54	80
LED Control Gear	DALI / Lumen Select					
Available in Emergency	Yes, DALI & Self-Testing					
Emergency Battery Technology	2 Hour Lithium Iron Phosphate LiFePO4, 4 Hour Available					
Electrical Connection	4.5m Long 2c+E 2.5mm ² Heavy Duty Orange Circular 1KV UV Protected Via 6.0mm ² Terminal Block					
Cable Entry	1 x 20mm – Cable Diameter Size 8mm – 13.5mm +/- 0.5mm					
Installation Type	27mm to 34mm Ø Spigot or Surface Mounted with Surface Mounted Kit					
Dimensions (L x W x H)	459mm x 322mm x 139mm					
Net Weight of Luminaire	9kg					
Warranty	Luminaire: 5 Years Emergency Battery: 4 Years					
Suitability	Indoor & Outdoor					
Suitable for Rough Service	Yes					

STANDARD CODES

PRODUCT CODE	DESCRIPTION	SYSTEM POWER
MRASLSD4T24	MineMaster Alu Spigot Mount Lumen Select DALI 4000K T2 Optic	70W/ 60W/ 50W/ 40W/ 31W/ 27W
MRASLSD4T54	MineMaster Alu Spigot Mount Lumen Select (70W Max) DALI 4000K T5 Optic	70W/ 60W/ 50W/ 40W/ 31W/ 27W
MRASLSDAT24	MineMaster Alu Spigot Mount Lumen Select DALI Amber T2 Optic	70W/ 60W/ 50W/ 40W/ 31W/ 27W
MRASLSD4M2T24	MineMaster Alu Spigot Mount Lumen Select DALI 4000K Maintained Emergency 2 hour T2 Optic	70W/ 60W/ 50W/ 40W/ 31W/ 27W
MRASLSD4M2T54	MineMaster Alu Spigot Mount Lumen Select DALI 4000K Maintained Emergency 2 hour T5 Optic	70W/ 60W/ 50W/ 40W/ 31W/ 27W
MRASLSDAM2T24	MineMaster Alu Spigot Mount Lumen Select DALI Amber Maintained Emergency 2 hour T2 Optic	70W/ 60W/ 50W/ 40W/ 31W/ 27W

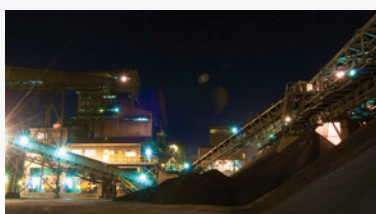
Note: 3000K is available on request

OPTIONAL ACCESSORIES

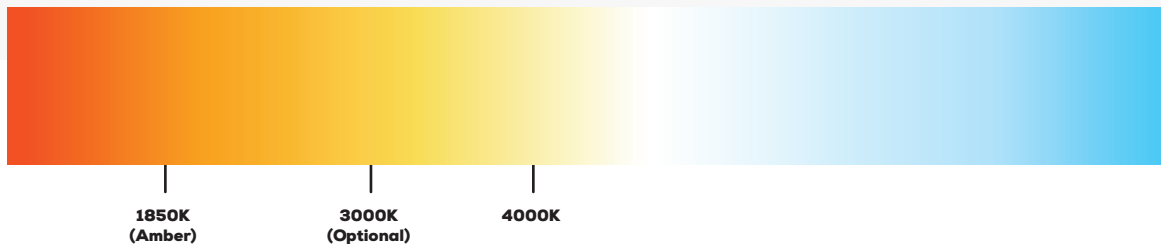
PRODUCT CODE	DESCRIPTION
BATPK3200/2L21	2-hour duration 6.4V 3.2AH Side by side pack replacement battery
MRASLSD4T2LM	MineMaster SB Light Module. Lumen Select (70W max) Dali 4000K T2 Optic. Not supplied with Spigot & Bulkhead mounting
MRASLSDAT2LM	MineMaster SB Light Module. Lumen Select (70W max) Dali AMBER T2 Optic. No Spigot & Bulkhead mounting
MRASLSD4T5LM	MineMaster SB Light Module. Lumen Select (70W max) Dali 4000K T5 Optic. No Spigot & Bulkhead mounting
MRAB	Minemaster SB Bulkhead Powder coated RAL9007 Paint Kit c/w Screws & 10KV Surge Protection gear tray
MRAPCCD	Minemaster SB PC Clear Diffuser c/w Gasket & Screws
MRAPG	Minemaster SB Surge Protection Gear Tray to Suit Mains Fitting
MRALSG	Minemaster SB 70W Dali Lumen Select (Mains) Control gear tray
ST25TBAR	Security Torx T25 TBAR Tool
C33VANDALUX	Flat wall mount Bracket, Mild steel, Hot Dip Galvanised Finish

APPLICATIONS

- Mining
- Heavy Industrial
- Platforms
- Conveyors
- Industrial sheds
- Correctional
- Car parks
- Councils
- Transportation
- Regional areas requiring high IK rating

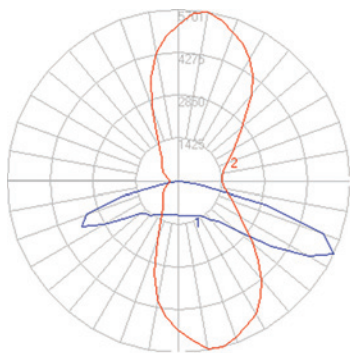


COLOUR REFERENCE GUIDE

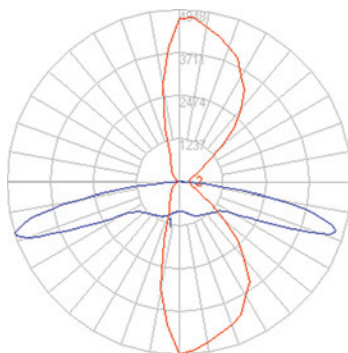


SPACING TABLE

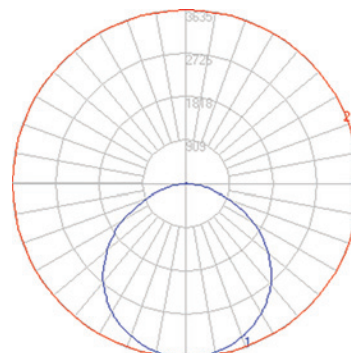
BRAND	LUMENS	WATTAGE	MOUNTING HEIGHT	SPACING METRES	MF/ LLF	AVE LUX	UNIFORMITY MIN/AVE
Pierlite MineMaster SB	7455	60	2.7	12	0.7	72 (58 lux min)	0.8
Pierlite MineMaster SB	7455	60	2.7	18	0.7	49	0.3
Pierlite MineMaster SB	8531	70	2.7	18	0.7	55	0.3



MRASLSD4T24 - 4000K
(T2 OPTIC)



MRASLSD4T24 - AMBER
(T2 OPTIC)



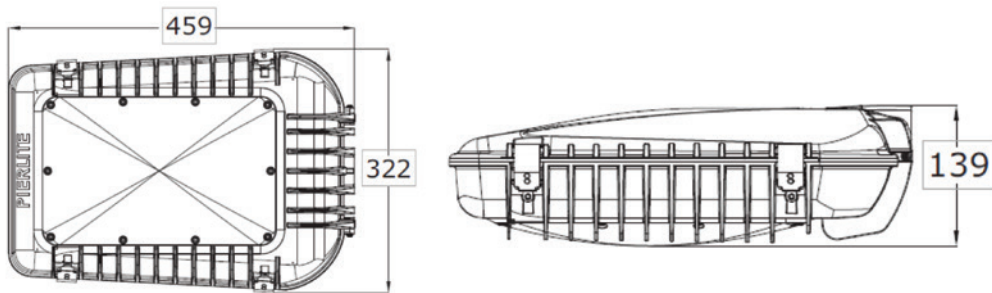
MRASLSD4T54 - 4000K
(T5 OPTIC)

EMERGENCY INFORMATION

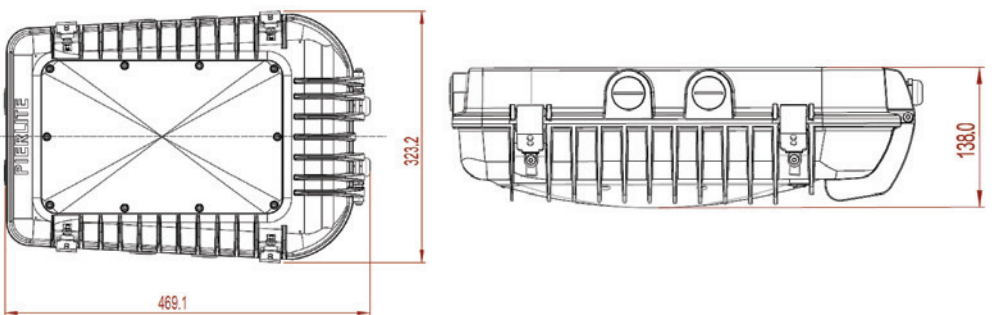
Self-Test Mode: The MineMaster SB emergency conveyor light will carry out an emergency lighting test consisting of a duration test for 90 mins every 6 months including the 120 minutes commissioning test. The result of this test will be displayed on the EM status bicolour LED indicator as per the following table below.

SELF TEST - BI COLOUR INDICATOR COLOUR INSTRUCTION

INDICATOR COLOR	STATUS	MEANING
Green Solid	Device is ok	Device is working well, the wireless is connected
Green slow flash (1s on, 1s off)	Duration Test in Progress	AC power is present, discharge test in progress
Green fast flash (0.1s on, 0.1s off)	Function Test in Progress	AC power is present, functional test in progress
Green alternate flash (0.1s on, 0.1s off, 0.1s on, 1s off)	Inhibit Mode	Switching into inhibit mode via controller
Green very slow flash (4s on, 4s off)	Automatic Duration Test Passed	AC power is present, automatic discharge test has completed within the last 7 days and was OK
Red Solid	Emergency LED Fault	Emergency LED is open circuit, short circuit or has otherwise failed in some way. fault can indicate the live status or the result of a test
Red slow flash (1s on, 1s off)	Battery Fault	Battery failure (battery failed the duration or functional test, battery appears to be defective, battery has incorrect voltage). fault can indicate the live status or the result of a test
Red fast flash (0.1s on, 0.1s off)	LED Driver Fault LED	Unit unable to deliver current to emergency LED. fault can indicate the live status or the result of a test
Red & Green off	Red & Green Off	Rest mode; Emergency mode; Extended emergency mode



SPIGOT MOUNT



SURFACE MOUNT

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