PIERLITE®

MINING & HEAVY INDUSTRIAL LIGHTING

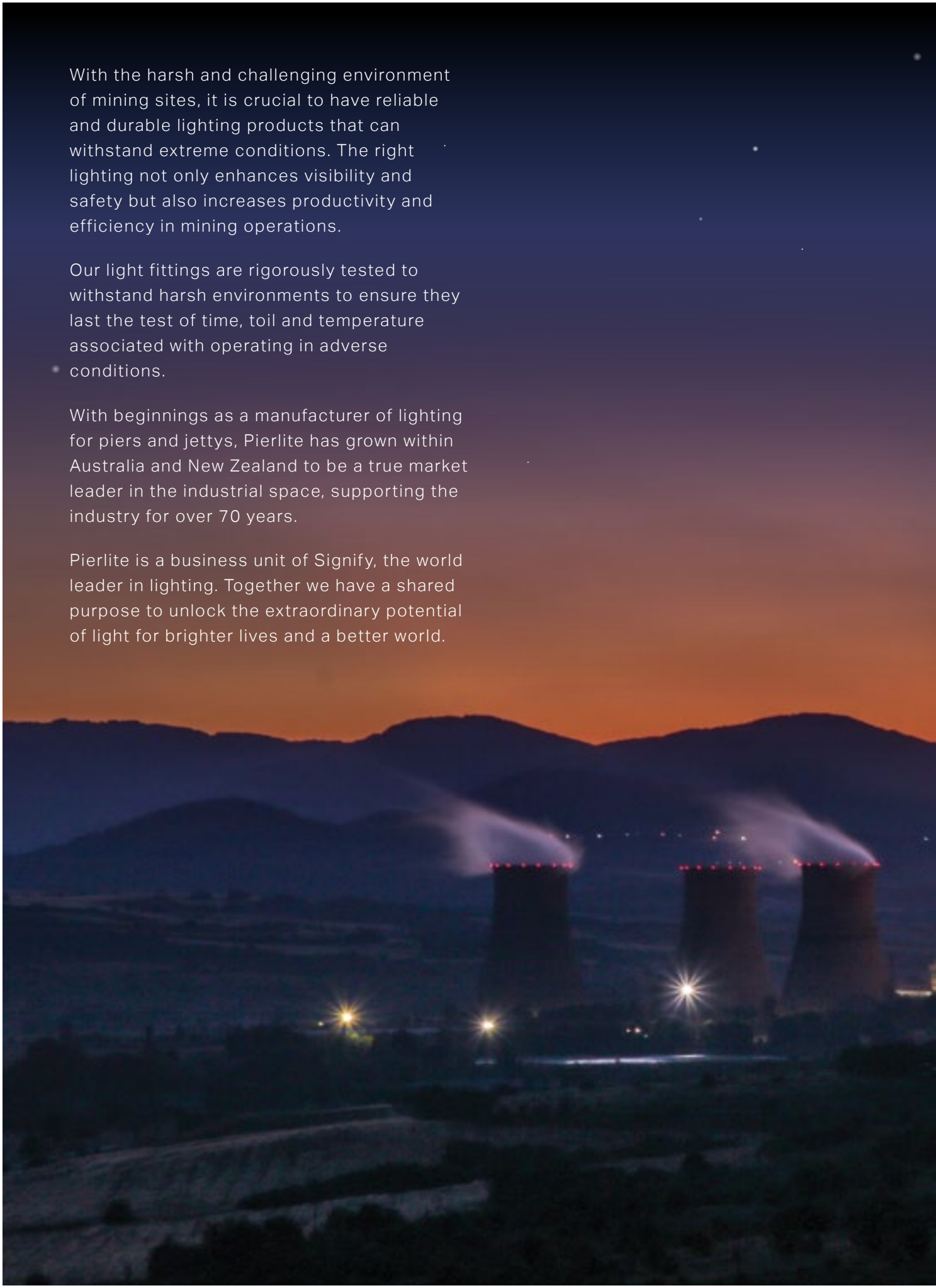
2024

With the harsh and challenging environment of mining sites, it is crucial to have reliable and durable lighting products that can withstand extreme conditions. The right lighting not only enhances visibility and safety but also increases productivity and efficiency in mining operations.

Our light fittings are rigorously tested to withstand harsh environments to ensure they last the test of time, toil and temperature associated with operating in adverse conditions.

With beginnings as a manufacturer of lighting for piers and jettys, Pierlite has grown within Australia and New Zealand to be a true market leader in the industrial space, supporting the industry for over 70 years.

Pierlite is a business unit of Signify, the world leader in lighting. Together we have a shared purpose to unlock the extraordinary potential of light for brighter lives and a better world.



signify
PIERLITE®

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PATHFINDER WEATHERPROOF GEN2 EMERGENCY LIGHT

MINEMASTER SB
CONVEYOR AREA LIGHT

LUMEN SELECT™

IP66 Ingress Protection Rating

IK10 Impact Rating

84,000hr Lifetime (L70/B10)

Ta-25˚C - Ta50˚C Operational Temperature Rating

5 Year Warranty

3SDCM MacAdam Steps

DALI Dimmable

Turtle Friendly

The MineMaster SB provides versatility with spigot or bulkhead mounting options & high quality of light for all applications, supplied with lumen select technology making it ideal for sites with a requirement for singular or multiple lumen outputs across multiple locations on a site, this allows for one common fitting with one product to order across the site.

- Multiple wattages/lumen outputs in one luminaire with a maximum of 70W
- Amber with T2 Optics and 4000K with T2 or T5 optics provide 0.2% maximum upward light
- Diecast marine grade aluminium housing with chromate and RAL9007 powdercoat finish with 27mm to Ø32mm spigot mount

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS
MRASLSD4T24	70W, 60W, 50W, 40W, 31W, 27W	9717lm, 8630lm, 7332lm, 5947lm, 4766lm, 4216lm	142lm/W, 145lm/W, 147lm/W, 149lm/W, 150lm/W, 151lm/W	4000K	L 459mm x W 323mm x H 135mm
MRASLSD4T54	70W, 60W, 50W, 40W, 31W, 27W	10380lm, 9041lm, 7664lm, 6294lm, 5083lm, 4518lm	133lm/W, 143lm/W, 144lm/W, 143lm/W, 141lm/W, 140lm/W	4000K	L 459mm x W 323mm x H 135mm
MRASLSDAT24	70W, 60W, 50W, 40W, 31W, 27W	6471lm, 5913lm, 5078lm, 4219lm, 3422lm, 3047lm	83lm/W, 90lm/W, 91lm/W, 92lm/W, 92lm/W, 92lm/W	1730K (Amber)	L 459mm x W 323mm x H 135mm

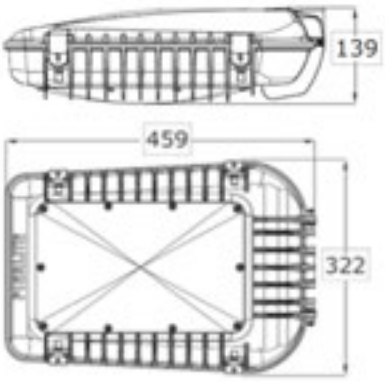
EMERGENCY VERSION CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	CLASSIFICATION
MRASLSD4M2T24	70W, 60W, 50W, 40W, 31W, 27W	9717lm, 8630lm, 7332lm, 5946lm, 4766lm, 4216lm	129lm, 145lm/W, 147lm/W, 149lm/W, 150lm/W, 151lm/W	4000K	L 459mm x W 323mm x H 135mm	CO/C180: D80 & C90/C270: D80
MRASLSD4T54	70W, 60W, 50W, 40W, 31W, 27W	10380lm, 9041lm, 7664lm, 6294lm, 5083lm, 4518lm	133lm/W, 143lm/W, 144lm/W, 143lm/W, 141lm/W, 140lm/W	4000K	L 459mm x W 323mm x H 135mm	CO/C180: D80 & C90/C270: D100
MRASLSDAT24	70W, 60W, 50W, 40W, 31W, 27W	6471lm, 5913lm, 5078lm, 4219lm, 3422lm, 3047lm	83lm/W, 90lm/W, 91lm/W, 92lm/W, 92lm/W, 92lm/W	1730K	L 459mm x W 323mm x H 135mm	CO/C180: D80 & C90/C270: D81

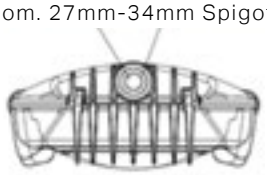
EMERGENCY MODE WATTAGE	BATTERY	BATTERY VOLTAGE	BATTERY CAPACITY	TESTING SYSTEM
5W	LiFePO4	6.4V	3200mA	Self Test or DALI Monitoring

ACCESSORY CODE	DESCRIPTION
MRASLSD4T2LM	Minemaster alum. Spigot Lumen Select (70W max) Dali 4000K T2 Optic no Spigot & Bulkhead mounting
MRASLSDAT2LM	Minemaster alum. Spigot Lumen Select (70W max) Dali AMBER T2 Optic no Spigot & Bulkhead mounting
MRASLSD4T5LM	Minemaster alum. Spigot 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 geartray
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 Geartray
ST25TBAR	Security Torx T25 TBAR Tool
C33VANDALUX	Flat wall mount Bracket, Mild steel, Hot Dip Galvanised Finish
BATPK3200/2L21	LIFEPO4 2XIFR26650MUB 6.4V 3.2AH Side By Side Pack PCB+PLUG C60 1007 22# 200mm

LINE DRAWINGS



20mm Cable Gland to suit
nom. 27mm-34mm Spigot



MINEMASTER
LED GEN 2

IP66
Ingress Protection Rating

50,000hr
Lifetime (L70/B10)

CRI 70
Colour Rendering Index

Non
Dimmable

5 Year
Warranty

Asymmetric
Beam Distribution

Introducing the next generation Mine Master LED luminaire the industry has been waiting for. Purpose designed IP66 fixture with LED technology for the mining industry. Designed and developed in Australia to save energy costs and reduce on-site maintenance time using the latest generation LED technology.

- Durable aluminium or stainless steel body options
- Supplied with 4.6m power supply cable, internal circuit protection
- UV resistant moulded lens with integral IP66 silicone seal

PRODUCT CODES

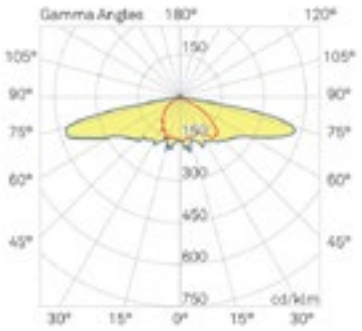
PRODUCT CODE	LAMP POWER	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	WEIGHT	MATERIAL
MRA42L2	42W	42W	4400lm	100lm/W	4000K	L 380mm x W 204mm x H 184 mm	4.2kg	Aluminium (Die Cast)
MRS30L2	30W	30W	3280lm	100lm/W	4000K	L 380mm x W 204mm x H 184 mm	4.5kg	Steel (Stainless)
MRS42L2	42W	42W	4400lm	100lm/W	4000K	L 380mm x W 204mm x H 184 mm	4.5kg	Steel (Stainless)

EMERGENCY VERSION CODES

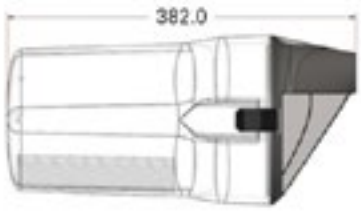
PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	WEIGHT	CLASSIFICATION
MRA00L2N	35W	3600lm	100lm/W	4000K	L 380mm x W 204mm x H 184mm	4kg	C0: C40, C90: D80 & C180: E31
MRA35L2M	35W	3600lm	100lm/W	4000K	L 459mm x W 323mm x H 135mm	6kg	C0: C40, C90: D80 & C180: E32
MRA40EGM	40W	2650lm	100lm/W	4000K	L 459mm x W 323mm x H 135mm	6kg	-

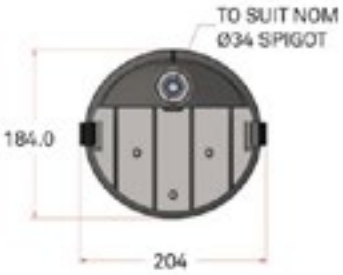
ACCESSORY CODE	DESCRIPTION
MRALEDDIFFKIT	Minemaster LED Diffuser Kit
C33VANDALUX	Flat wall mount Bracket, Mild steel, Hot Dip Galvanised Finish
DGLCEM3200/1L11	LiFePO4 Battery 1 Cell 3.2V 3200 mAh
DGLCEM3200/2L12	Battery LiFeP04 2Cell 6.4V 3200mAh

PHOTOMETRICS



LINE DRAWINGS





MRALEDDIFFKIT

C33VANDALUX

NEXUS SB
AREA BULKHEAD

LUMEN SELECT™

IP66
Ingress Protection Rating

IK10
Impact Rating

CRI 80
Colour Rendering Index

Ta-25˚C - Ta50˚C
Operational Temperature Rating

72,000hr
Lifetime (L70/B50)

3SDCM
MacAdam Steps

5 Year
Warranty

DALI
Dimmable

Symmetric
Beam Distribution

The Nexus SB bulkhead provides a solid fitting for industrial applications needing a product built to last. The housing is manufactured from LM6 marine grade chromated aluminum and finished RAL 9007 grey powder coating. The luminaire LEDs are driven by a DALI2 Italian made driver providing lumen select capabilities allowing versatility for contractors or onsite electricians making it ideal for sites with a requirement for singular or multiple lumen outputs across multiple locations on a site, this allows for one common fitting with one product to order across the site.

- Multiple wattages/lumen outputs in one luminaire 35W, 50W & 65W
- Chromated Dicast LM6 marine grade aluminum, low copper content housing with RAL9007 powdercoat finish
- 4x 20mm and 2x25mm cable entries. Supplied with 2x20mm metal cable glands for cable diameter size 8mm – 13.5mm +/- 0.5mm

PRODUCT CODES

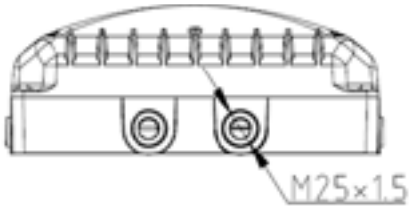
PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS
NXABLSD3	70W, 50W, 35W	6900lm, 5600lm, 3900lm	106lm/W, 112lm/W, 111lm/W	3000K	L 329mm x W 227mm x H 130mm
NXABLSD4	70W, 50W, 35W	7700lm, 6200lm, 4300lm	118lm/W, 124lm/W, 122lm/W	4000K	L 329mm x W 226mm x H 130mm
NXABLSDA	70W, 50W, 35W	6300lm, 5000lm, 3500lm	97lm/W, 100lm/W, 100lm/W	1850K (Amber)	L 329mm x W 227mm x H 130mm

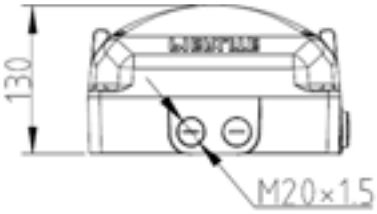
EMERGENCY VERSION CODES

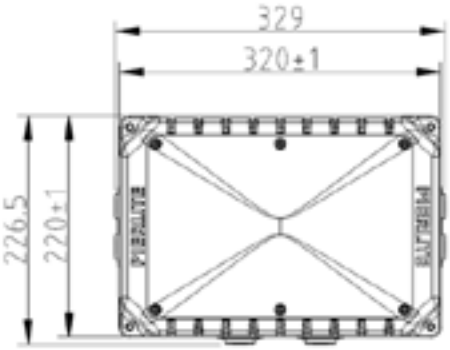
PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	CLASSIFICATION
NXABLSD3M2	70W, 50W, 35W	6900lm, 5600lm, 3900lm	106lm/W, 112lm/W, 111lm/W	3000K	L 329mm x W 227mm x H 130mm	D63 & C90/C270: D63
NXABLSD4M2	70W, 50W, 35W	7700lm, 6200lm, 4300lm	118lm/W, 124lm/W, 122lm/W	4000K	L 329mm x W 227mm x H 130mm	D80 & C90/C270: D63
NXABLSDAM2	70W, 50W, 35W	6300lm, 5000lm, 3500lm	97lm/W, 100lm/W, 100lm/W	1850K	L 329mm x W 227mm x H 130mm	D63 & C90/C270: D63

EMERGENCY MODE WATTAGE	BATTERY	BATTERY VOLTAGE	BATTERY CAPACITY	TESTING SYSTEM
5W	LiFePO4	6.4V	3200mA	Self Test or DALI Monitoring

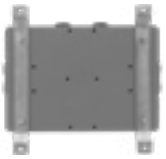
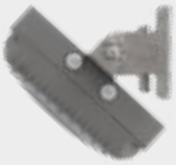
LINE DRAWINGS







MOUNTING ACCESSORIES

PART NUMBER	MOUNTING BRACKET/ ACCESSORY	MANUFACTURED FROM	SECURED BY	MOUNTING POSITION	IMAGES
NXS36	Nexus SB surface mount backet Set (pair)	316 stainless steel with RAL9007 powder coating	Hex M6 taptite screws	Horizontal only	
NXS39	Nexus SB 0° / 22° / 45° angle adjustable bracket	316 stainless steel with RAL9007 powder coating	Hex M6 taptite screws	Vertical or horizontal	
NXSPMB	Pipe 32mmØ / 40mmØ / 65mmØ OD	316 stainless steel with RAL9007 powder coating	Hex M6 taptite screws	Vertical or horizontal	
NXSTRN	Trunnion arm	316 stainless steel with RAL9007 powder coating	Hex M6 taptite screws	Vertical or horizontal	
NXSWG	Wireguard	316 stainless steel	Philips head screws	N/A	

VANDALUX
WEATHERPROOF BATTEN GEN 2

IP66
Ingress Protection Rating

IK10
Impact Rating

Ta-30˚C - Ta50˚C
Operational Tempera-ture Rating

72,000hr
Lifetime (L70/B50)

5 Year
Warranty

DALI
Dimmable

The Australian designed Vandalux adverse weatherproof range has a proven and trusted history of over 47 years being tough for all levels of industry and public areas including transport, correctional, schools, heavy industry and high vandalism / secure areas. The 6mm² terminal block and control gear has been selected to be simplified, ultra-efficient and versatile with Lumen Select Technology, 1 fitting with 21 wattages/lumen outputs in the same traditional body and diffuser allowing for easier and quicker installation allowing for the same appearance throughout your installation. Replaceable retrofit kits and gear trays are available for when upgrades are required.

- Pressure die-cast LM6 marine grade aluminum housing with RAL9007 powder coated paint finish and robust clear or frosted polycarbonate lens resist impact and abuse
- Up to 22 wattages/Lumen outputs available in 1 fitting, 2 sizes available 4FT (22W, 30W, 37W, 53W, 63W) and 2FT (16W, 20W, 28W, 33W)
- Colour temperatures available 3000K, 4000K, Blue, Red and Amber

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	WEIGHT	LINE CURRENT
VXOLS2D3	28W, 33W, 16W, 20W	3199lm, 3524lm, 2321lm, 2097lm	121lm/W, 118lm/W, 127lm/W, 129lm/W	3000K	L 700mm x W 138mm x H 114mm	4kg	0.14A
VXOLS2D4	28W, 33W, 16W, 20W	3351lm, 3861lm , 2114lm, 2510lm	110lm/W, 118lm/W, 129lm/W, 127lm/W	4000K	L 700mm x W 138mm x H 114mm	4kg	0.14A
VXOLS2D4K	28W, 16W, 20W, 33W	3351lm, 2114lm, 2510lm, 3861lm	110lm/W, 129lm/W, 127lm/W, 118lm/W	4000K	L 700mm x W 138mm x H 114mm	4kg	0.14A
VXOLS2D4PB	28W, 16W, 20W, 33W	3351lm, 2114lm, 2510lm, 3861lm	110lm/W, 129lm/W, 127lm/W, 117lm/W	4000K	L 700mm x W 138mm x H 114mm	4kg	0.14A
VXOLS2DA	28W, 34W	2491lm, 2860lm	88lm/W, 88lm/W	1746K	L 700mm x W 138mm x H 114mm	4kg	0.14A
VXOLS4D3	53W, 30W, 37W, 22W, 63W	6153lm, 3837lm, 4576lm, 2812lm, 7121lm	108lm/W, 121lm/W, 119lm/W, 123lm/W, 111lm/W	3000K	L 1310mm x W 138mm x H 114mm	8kg	0.23A

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	WEIGHT	LINE CURRENT
VXOLS4D4	53W, 30W, 37W, 63W, 22W	6153lm, 3837lm, 4576lm, 7121lm, 2812lm	108lm/W, 121lm/W, 119lm/W, 111lm/W, 123lm/W	4000K	L 1310mm x W 138mm x H 114mm	8kg	0.23A
VXOLS4D4H (Microwave)	53W	6153lm	108lm/W	4000K	L 1308mm x W 138mm x H 114mm	8kg	0.23A
VXOLS4D4K	53W, 22W, 30W, 37W, 63W	6153lm, 2812lm, 3837lm, 4576lm, 7121lm	130lm/W, 123lm/W, 121lm/W, 119lm/W, 111lm/W	4000K	L 1310mm x W 138mm x H 114mm	8kg	0.23A
VXOLS4D4PB	53W, 22W, 30W, 37W, 63W	6153lm, 2812lm, 3837lm, 4576lm, 7121lm	108lm/W, 127lm/W, 127lm/W, 123lm/W, 113lm/W	4000K	L 1310mm x W 138mm x H 114mm	8kg	0.23A
VXOLS4DA	55W, 23W, 32W, 38W, 65W	5094lm, 2262lm, 3112lm, 3739lm, 5938lm	87lm/W, 98lm/W, 97lm/W, 98lm/W, 91lm/W	1746K	L 1310mm x W 138mm x H 114mm	8kg	0.23A

EMERGENCY VERSION CODES

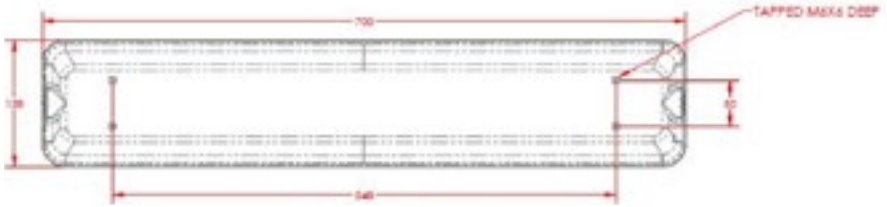
PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	LINE CURRENT	DIMENSIONS	CLASSIFICATION
VXOLS2D3M2	28W, 20W, 33W, 16W	3351lm, 2510lm, 3861lm, 2114lm	121lm/W, 127lm/W, 118lm/W, 129lm/W	3000K	0.16A	L 700mm x W 138mm x H 114mm	C0/C180: D50 & C90/C270: D32
VXOLS2D4M2	28W, 20W, 33W, 16W	3351lm, 2510lm, 3861lm, 2114lm	121lm/W, 127lm/W, 118lm/W, 129lm/W	4000K	0.16A	L 700mm x W 138mm x H 114mm	C0/C180: D50 C90/C270: D25
VXOLS2D4M2K	28W, 16W, 20W, 33W	3351lm, 2114lm, 2510lm, 3861lm	121lm/W, 129lm/W, 127lm/W, 118lm/W	4000K	0.16A	L 700mm x W 138mm x H 114mm	C0/C180: D50 & C90/C270: D32
VXOLS2D4M4GPB	28W	3351lm	121lm/W	4000K	0.16A	L 700mm x W 138mm x H 114mm	-
VXOLS4D3M2	53W, 63W, 37W, 30W, 22W	6153lm, 7121lm, 4576lm, 3837lm, 2812lm	114lm/W, 111lm/W, 119lm/W, 121lm/W, 123lm/W	3000K	0.25A	L 1310mm x W 138mm x H 114mm	C0/C180: D50 & C90/C270: D25
VXOLS4D4HM2 (Microwave)	53W	6153lm	114lm/W	4000K	0.25A	L 1310mm x W 138mm x H 114mm	C0/C180: D50 & C90/C270: D26
VXOLS4D4M2	53W, 22W, 30W, 37W, 63W	6153lm, 2812lm, 3837lm, 4576lm, 7121lm	114lm/W, 123lm/W, 121lm/W, 119lm/W, 111lm/W	4000K	0.25A	L 1310mm x W 138mm x H 114mm	C0/C180: D100 C90/C270: D63
VXOLS4D4M2K	53W, 22W, 30W, 37W, 63W	6153lm, 2812lm, 3837lm, 4576lm, 7121lm	114lm/W, 123lm/W, 121lm/W, 119lm/W, 111lm/W	4000K	0.25A	L 1310mm x W 138mm x H 114mm	C0/C180: D50 & C90/C270: D25

BATTERY	TESTING SYSTEM
LiFePO4	Self Test or DALI Monitoring

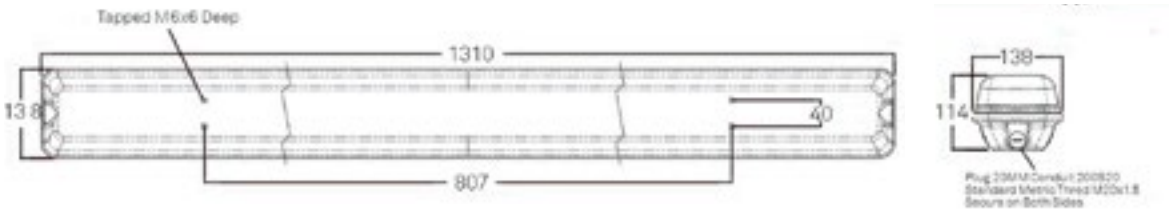
ACCESSORY CODE	DESCRIPTION
C33VANDALUX	Flat wall mount Bracket, Mild steel, Hot Dip Galvanised Finish
BATPK6400/2L21	Battery LiFePO4 2 cell 3.2v 6400mah sbs pcb 1015 20# 200mm

VANDALUX
WEATHERPROOF BATTEN GEN 2

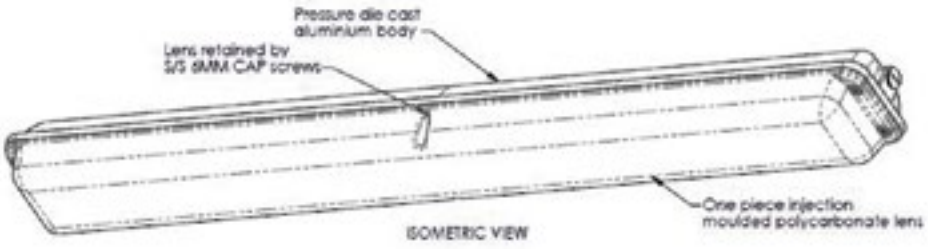
LINE DRAWINGS



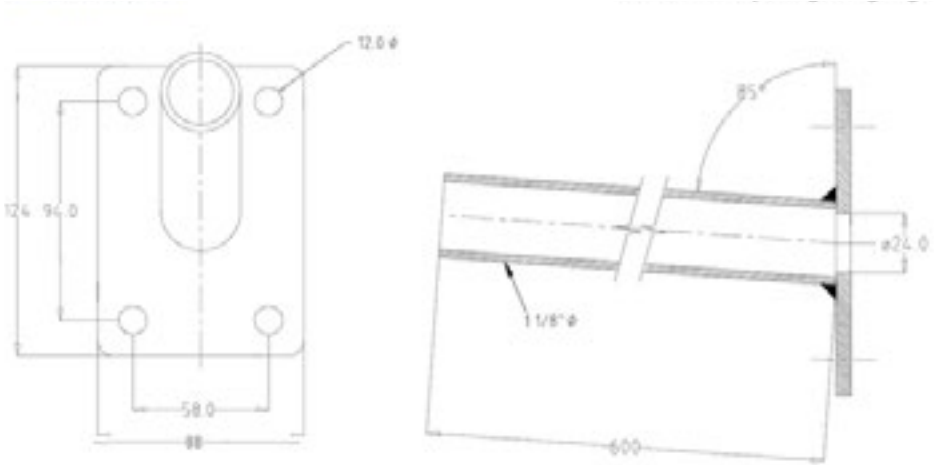
VXOLS2D4, VXOLS2DA, VXOLS2D3



VXOLS4D4, VXOLS4DA, VXOLS4D4H, VXOLS4D3



VXOLS4D4, VXOLS4DA, VXOLS4D4H, VXOLS4D3



C33VANDALUX

VXOLS4D4H, VXOLS2D3, VXOLS2D4, VXOLS2DA, VXOLS4D3, VXOLS4D4, VXOLS4DA

VANDALUX MOUNTING ACCESSORIES

FITTING	MOUNTING BRACKET/ ACCESSORY	PART NUMBER	MANUFACTURED FROM	MODIFICATION TO BODY	LENGTHS	IMAGES
Vandalux	Horizontal wall mounting bracket (bracket only)	C28VANDALUX (single bracket) C29VANDALUX (two brackets)	Cast aluminium	Drill holes where indents are internally provided	2ft only 4ft only	
	C31VANDALUX to suit 7mm diameter cantenary wire kit	C31VANDALUX	Aluminium	Catenary bracket	2ft & 4ft	
	Spigot attachment	C32VANDALUX	Cast aluminium	Nil, use holes provided	2ft only	
	Extension mounting bracket 5˚ elevation	C33VANDALUX	Hot dipped galvanised steel	Must be used with C32 Spigot attachment	2ft only	
	Universal bracket	C35VANDALUX	Aluminium	Nil, use holes provided	1200mm & 600mm	
	Ceiling mount bracket	C36VANDALUX	Aluminium	Nil, use holes provided	2ft & 4ft	
	Wire suspension bracket	C37VANDALUX	Aluminium	Nil, use holes provided	2ft & 4ft	
	Unistrut bracket	C38VANDALUX	316 Stainless Steel	Nil, use holes provided	2ft & 4ft	
	Adjustable bracket 0°/ 22°/45°	C39VANDALUX	316 Stainless Steel	Nil, use holes provided	2ft & 4ft	
	Pipe clamp bracket	PMB32/VAN (for 32mm pipe) PMB40/VAN (for 40mm pipe)	This is stainless steel only	Nil, use holes provided	2ft & 4ft	

VANDLED CS

COLOUR SELECT

IP65 Ingress Protection Rating

IK10 Impact Rating

CRI 80 Colour Rendering Index

Ta0˚C - Ta50˚C Operational Temperature Rating

60,000hr Lifetime (L70/B50)

5 Year Warranty

6SDCM MacAdam Steps

Symmetric Beam Distribution

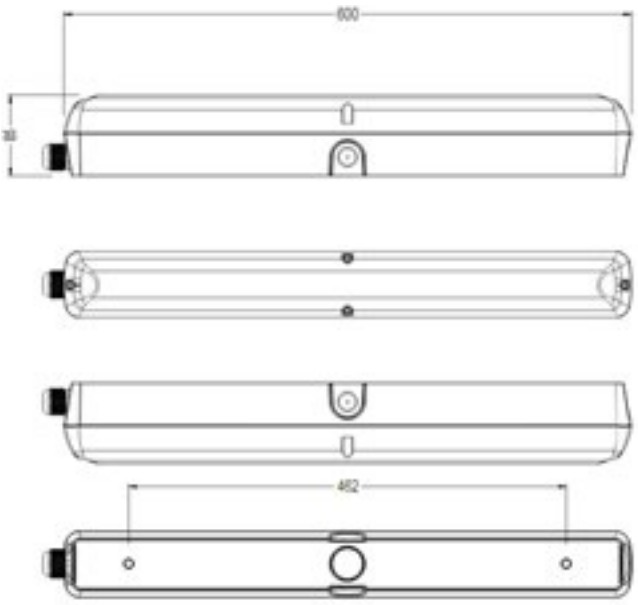
The Vandaled CS is a robust weatherproof batten, built for tough Australian conditions. It is ideal for adverse, high impact areas such as walkways, schools, mining camps and public amenities.

- Strong IK10 polycarbonate RAL9007 grey body with an opalised diffuser
- Easily select your colour temperature from 3000K or 4000K
- Five optional cable entry points for versatility and ease of installation

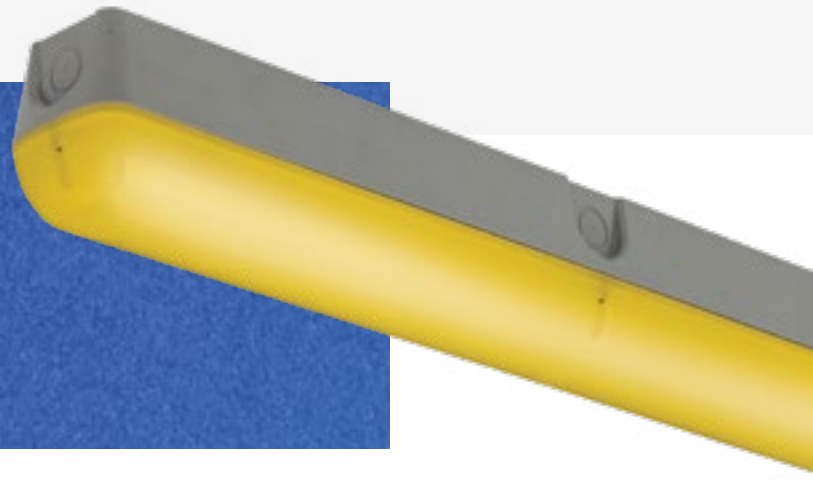
PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS
VLED20ECS	20W	2407lm, 2276lm	120lm/W, 114lm/W	4000K, 3000K	L 600mm x W 70mm x H 85mm

LINE DRAWINGS



VANDLED CS
YELLOW

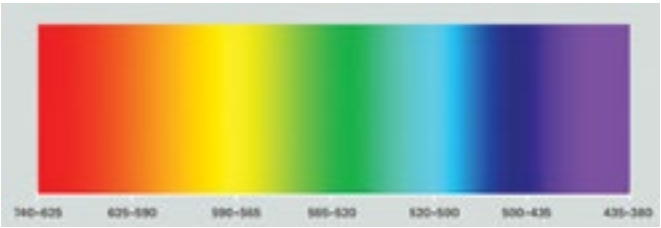


- Yellow light limits insects that are attracted to light
- Strong polycarbonate housing and opalised diffuser
- 5 drill out cable entries
- Security capped screws
- RAL9007 grey housing
- Yellow LED chip - 570Nm – 580Nm

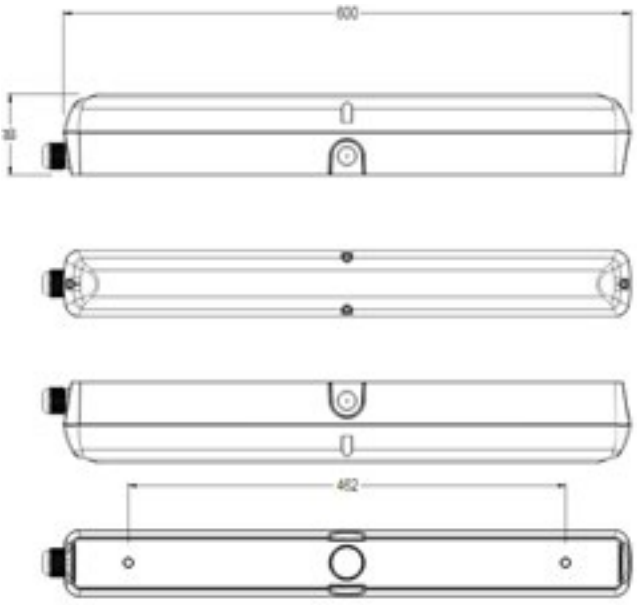
PERFORMANCE	
System Power	20W
Operating Temperature	0˚C - 50˚C
Relative Humidity	93%
Ingress Protection Rating	IP65
Impact Rating	IK10
Beam Distribution	Symmetric
Warranty	5 Years

PHYSICAL	
Dimensions	L 600mm x W 70mm x H 85mm
Diffuser	Opal polycarbonate
Luminaire Colour	RAL 9007 grey
Weight	1.06kg
Luminaire Material	Polycarbonate
Driver Location	Integrated
Installation	Surface mounted

ELECTRICAL	
Dimming	Non Dimmable
Voltage	240V
Inrush Current	12A
Inrush Current Duration	196µs
Line Current	0.1A
Electrical Rating	Class 1
Earth Leakage	0.7mA



LINE DRAWINGS



VANDLUX
LED CHEMICAL WASHBAY

IP66 Ingress Protection Rating

IK10 Impact Rating

CRI 39 Colour Rendering Index

Ta0˚C - Ta50˚C Operational Temperature Rating

60,000hr Lifetime (L70/B50)

5 Year Warranty

3SDCM MacAdam Steps

DALI Dimmable

Pierlite Vandalux LED Emergency with die-cast LM6 aluminium body with a frosted polycarbonate lens, modular gear tray.

- Pressure die-cast marine grade aluminum body with a green powder coated paint finish
- Covers five lumen outputs and wattages to help reduce the number of luminaire types in mains mode (65W-5628lm, 55W-5047lm, 38W-4092lm, 32W-3596lm & 23W-2837lm) & (32W- 2944lm, 28W-2576lm, 24W-2208lm, 20W-1840lm, 18w- 1652lm)
- Robust frosted polycarbonate lens resists impact & abuse with IK10 and high ingress protection of IP66

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	WEIGHT
VXOLS2DGM2	32W, 36W, 23W, 20W	3596lm, 3861lm, 2510lm, 1840lm	93lm/W	477K	L 700mm x W 138mm x H 114mm	4kg
VXOLS4DGM2	55W, 65W, 38W, 32W, 23W	5047lm, 5628lm, 4092lm, 3596lm, 2837lm	93lm/W, 86lm/W, 107lm/W, 112lm/W, 123lm/W	477K	L 1310mm x W 138mm x H 114mm	8kg

EMERGENCY MODE WATTAGE	EMERGENCY MODE LUMEN	BATTERY	BATTERY VOLTAGE	BATTERY CAPACITY	TESTING SYSTEM
3W	350lm	LiFePO4	3.2V	3200mA	Self Test

LINE DRAWINGS

VXOLS4DGM2, VXOLS2DGM2

VXOLS4DGM2

VXOLS4DGM2

VXOLS4DGM2,
VXOLS2DGM2

RHINO
FLOODLIGHT

LUMEN SELECT™

IP65
Ingress Protection Rating

IK08
Impact Rating

Non
Dimmable

5 Year
Warranty

The NEW versatile and robust Rhino Floodlight is supplied with lumen select, allowing for single or multiple lumen outputs across various locations on site. The amber is suitable for environmental conditions such as fog, dust or adverse effects on fauna, while the 4000K is ideal for mining, open areas, car parks, warehousing and car or transportation yards.

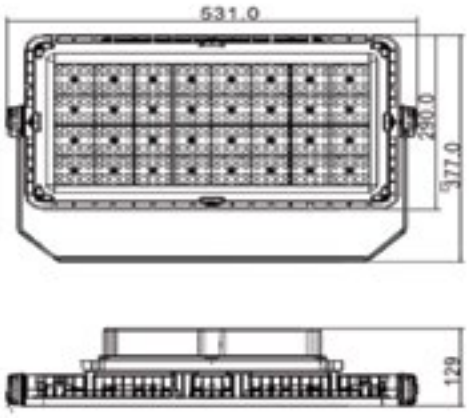
- Ideal for harsh conditions, with superior housing made of LM6 grade die-cast aluminium, in addition to a chromated and powder-coated black finish
- Available in a 1723K (amber) asymmetrical light distribution or a 4000K in either symmetrical or asymmetrical
- Large 6mm2 terminal block and 2x 20mm threaded cable entries

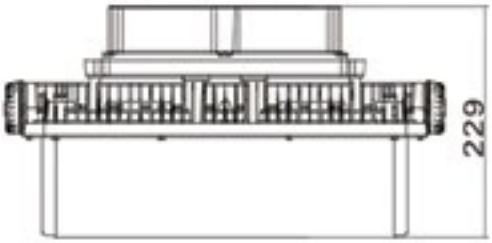
PRODUCT CODES

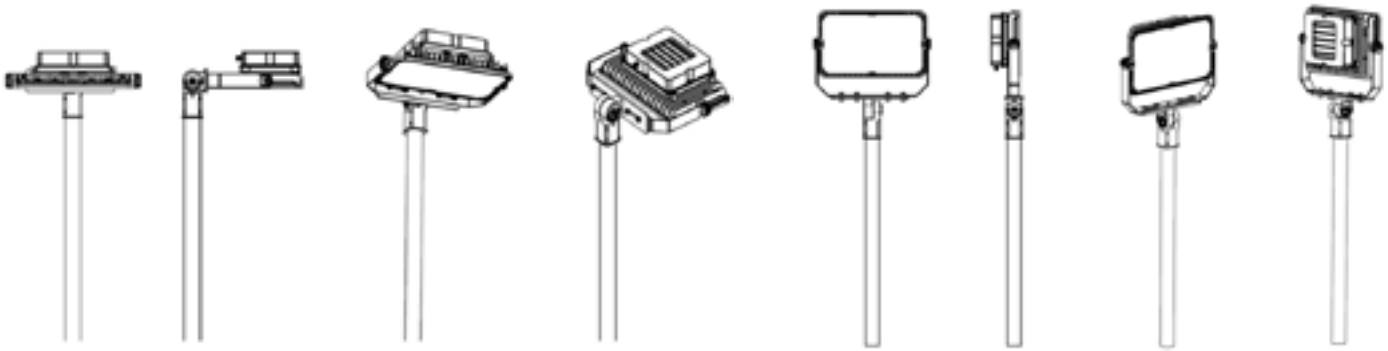
PRODUCT CODE	LAMP POWER	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS
RHNA380LS4 (Asymmetrical)	370W	380W, 200W, 250W, 320W	49400lm, 28200lm, 34500lm, 43520lm	83lm/W, 94lm/W, 89lm/W, 86lm/W	4000K	L 531mm x W 377mm x H 129 mm
RHNA380LS4 (Asymmetrical)	368W	380W, 200W, 250W, 320W	30780lm, 19095lm, 22765lm, 27763lm	83lm/W, 94lm/W, 89lm/W, 86lm/W	1723K (Amber)	L 531mm x W 377mm x H 129 mm
RHNS380LS4 (Symmetrical)	365W	380W, 200W, 250W, 320W	56257lm, 32988lm, 39380lm, 49640lm	133lm/W, 164lm/W, 161lm/W, 156lm/W	4000K	L 531mm x W 128mm x H 377mm

ACCESSORY CODE	DESCRIPTION
RHN380WG	Rhino 380 Floodlight Glare Wireguard
RHN380GS	Rhino Glare Sheild Powdercoated Black
RHN380PM	Rhino Pole Mount Bracket 64mm° Pole Mount

LINE DRAWINGS







MAXIMASTER FLOODLIGHT GEN3

COLOUR SELECT

LUMEN SELECT™

IP66
Ingress Protection Rating

IK08
Impact Rating

CRI 80
Colour Rendering Index

7SDCM
MacAdam Steps

Ta0˚C - Ta50˚C
Operational Temperature Rating

Non
Dimmable

54,000hr
Lifetime (L70/B50) @ Ta50˚C

5 Year
Warranty

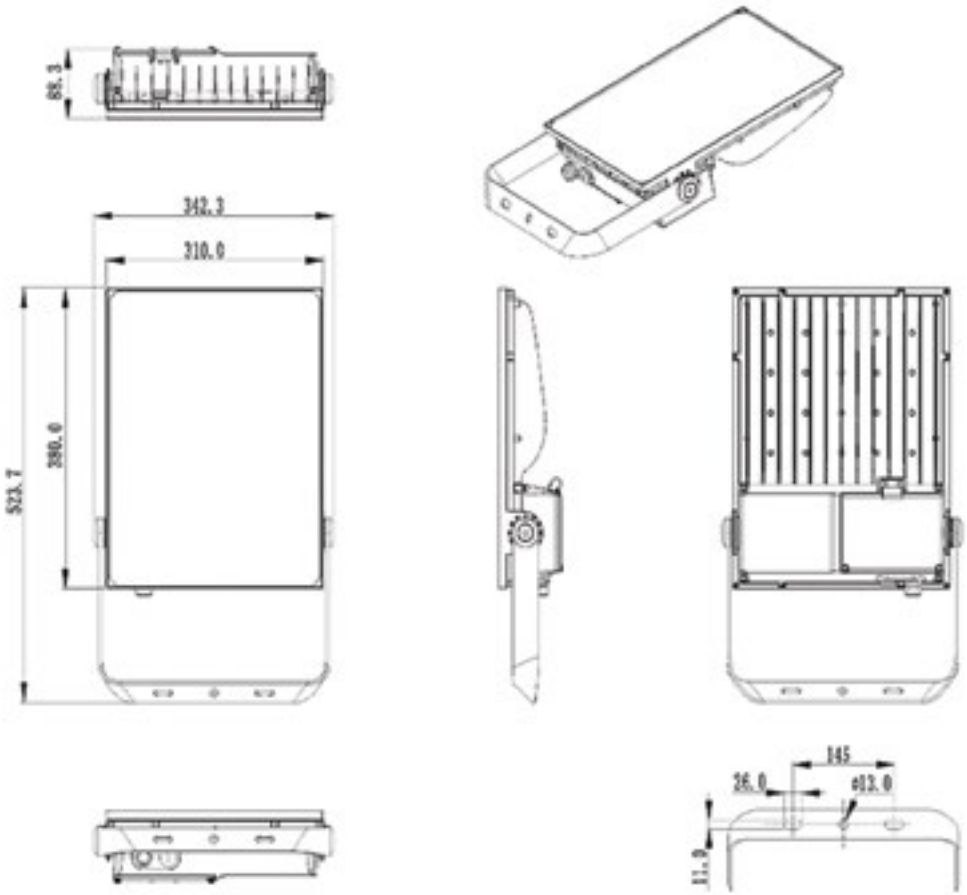
The MaxiMaster Floodlight has always had a trusted history of reliability through all variations of installations, the Gen3 is no exception and builds on the adaptability and versatility of its predecessor, the third generation provides the same shape and form as the generation 2 but with the added features of cable entries, terminal block, additional surge protection, lumen and colour select. Gen3 was built for the harsh Australian conditions for installations such as general industrial and public areas including warehousing, regional areas, transport facilities, custodial, schools, and heavy industry. The lumen and colour select technology provides the ability to have 1 luminaire with multiple wattages/lumen outputs in the same housing making it easier to replace keeping the same appearance through your installation.

- Provided with multiple wattages/lumen outputs in 1 fitting with wattages of 100W/150W/200W/250W and colour select with 3000K/4000K/5000K
- Supplied with 2 x 20mm cable entries, 2 x 20mm metal cable gland, 6mm² terminal block and an additional 10KV surge protection installed to the 4KV driver surge immunity
- L80/B10 = 54,000 hours @ an ambient temp of 50°C

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS
MML250LSCSA (Asymmetrical)	250W, 250W, 200W, 150W, 100W, 200W, 150W, 100W, 250W, 200W, 150W, 100W	35500lm, 32900lm, 26700lm, 21500lm, 14900lm, 28600lm, 22500lm, 15400lm, 34000lm, 27900lm, 22200lm, 15300lm	150lm/W, 132lm/W, 139lm/W, 145lm/W, 152lm/W, 155lm/W, 158lm/W, 161lm/W, 137lm/W, 145lm/W, 151lm/W, 161lm/W	4000K, 3000K, 3000K, 3000K, 3000K, 3000K, 3000K, 3000K, 5000K, 3000K, 3000K, 3000K	L 523mm x W 342mm x H 185mm
MML250LSCSS (Symmetrical)	250W, 250W, 200W, 150W, 100W, 200W, 150W, 100W, 250W, 200W, 150W, 100W	36200lm, 33600lm, 27500lm, 21800lm, 15000lm, 29300lm, 23100lm, 15500lm, 34800lm, 28500lm, 22800lm, 15600lm	158lm/W, 139lm/W, 146lm/W, 152lm/W, 159lm/W, 162lm/W, 152lm/W, 169lm/W, 145lm/W, 153lm/W, 159lm/W, 165lm/W	4000K, 3000K, 3000K, 3000K, 3000K, 3000K, 3000K, 3000K, 5000K, 5000K, 5000K, 5000K	L 523mm x W 342mm x H 185mm

LINE DRAWINGS



MML250LSCSA

MML250LSCSA

MML250LSCSA

MML250LSCSS

PHILIPS

Lighting

ACTIVATE YOUR INFINITE POTENTIAL, **ACTISTAR**

Philips Actistar inherits all the advantages you would expect from a Philips floodlight and now takes performance to a new level to illuminate your recreational sports fields and area lighting applications. It's an ideal solution for a wide range of lighting applications, such as sports pitches, container yards and ports, apron and industrial large areas and intersections. ActiStar will energise your sports facilities with uniformity and be able to enhance the safety of junctions by maximising efficiencies.

Offering optimised design for 1:1 retrofitting in a compact size with lower weight, wide choice of optics and high manufacturing quality. It can deliver sufficient light at higher efficacy and it incorporates best-in-class LED light sources, a modular optical system, a heat sink and driver into a one-piece housing that meets globally recognised safety standards. Its rigorously designed heat sink incorporates aesthetics and functionality to ensure excellent reliability. The superior lighting performance and longer lifetime activate your infinite potential with ActiStar.

Benefits

- Design optimized for 1:1 retrofitting
- Wide choice of optic for sports, road, and area applications
- High lumen efficacy on high lumen packages to cut luminaries installation quantity
- Enhance the safety of intersection roads by maximizing efficiencies
- Smart stadiums and great fan experiences start with Interact Sports
- Energize your sports facilities with best-in-class illumination and uniformity
- Compact size with an integrated driver gives you more flexibility and convenience in installation
- Equipped with Service Tag to provide assistance and support services
- Switching your HID high mast luminaires to ActiStar not only saves energy and operating costs, but it also allows you to achieve comparable photometric performance while cutting your luminaire quantity

Applications

- Airport Apron
- Port & Container Yard
- Large industrial areas / Car Park Areas
- Transportation Terminals & Tollways
- Recreational Sports Stadium
- Intersection Road
- General flood lighting

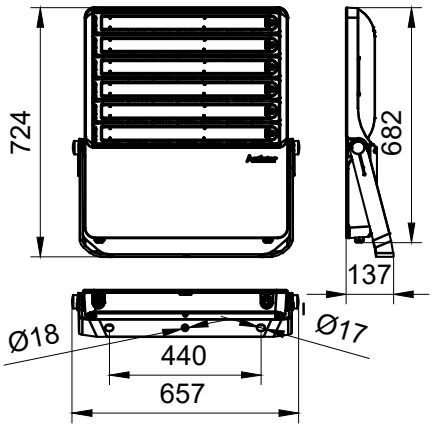
Features

- Philips brand stands for high quality, elegant and aesthetic
- Wide choice of optic for sports, road, and area applications to meet multiple needs
- Compact design one-piece design, driver inside of housing with light weight, help addressing customers' safety and easy installation concerns
- Compatible with Interact Sports systems
- Best-in-class LED to achieve higher efficacy on high lumen output.
- Compatible with various dimming drivers for various lighting control systems, future proof features.
- High-quality MSP coating with a robust design makes the installation suitable for harsh outdoor environment conditions

Material	Housing: die-cast aluminum
	Optic cover: Polycarbonate
Light Source	High power LED module
Installation	U bracket surface-mounted
Luminous flux	system flux up to 110,000 lumen
Correlated color temperature - CCT	730/740/757/830/840/857/957
Luminaire efficacy	System typical efficacy
	757 - 135lm/W
	857 - 120lm/W
	957 - 110lm/W

Color Rendering index - CRI	70/80/90
Power	Up to 820W
Mains Voltage	220~240V, 50/60Hz
Control system input	1-10V / DALI / coded mains
Dimming	1-10V
	FP: DALI / Coded mains
Operating Temperature range	-40°C to 50°C (outdoor) , -40°C to 40°C (indoor)
Ingress protection	IP66
Certification	IECEE CB, CE, CQC, SAA

Line Drawings



PHILIPS

Lighting

SUNSTAY - ALL IN ONE SOLAR STREET LIGHT

Integrated solar street light with Lithium Ferro Phosphate battery, solar panel and charger built into the luminaire. Pressure die cast aluminium for sturdiness and long life. Specially designed pole mounting bracket allows different tilt angles, lateral andpole top mounting.

Benefits

- Brings light to areas without access to electric grid
- Saves energy
- Preserves landscape as no trenching for cabling required
- Environment friendly
- Sturdy construction for long life

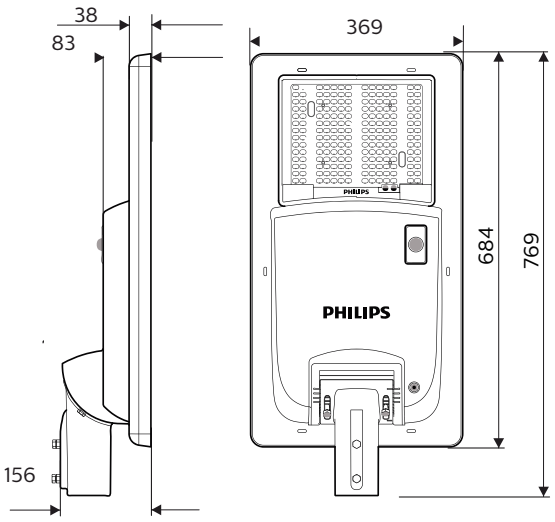
Applications

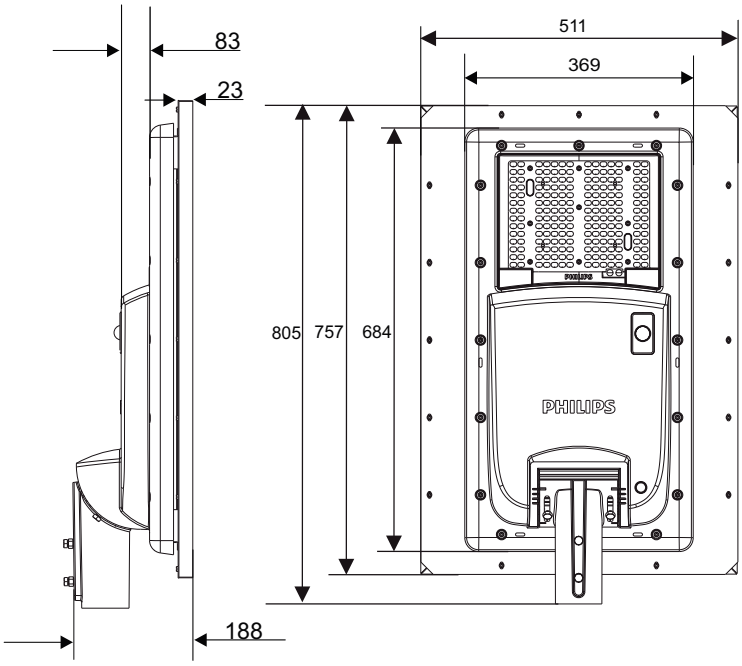
- Category P roads
- Rural areas
- Parks, pedestrian path lighting
- Industries, office, schools
- Shopping centres, corporate campuses, plazas

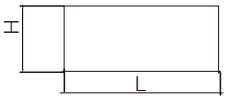
Features

- High luminous efficacy of 175 lm/Watt to maximize battery performance
- Replaceable Lithium Ferro Phosphate battery for long life and hassle free operations
- MPPT charge controller for maximum efficiency
- Pressure die-cast aluminum housing for sturdiness and excellent heat dissipation.
- Specially designed pole mounting bracket with adjustable tilt angles of 0 to 15 degrees, which can also be used in post top & lateral mounting positions
- Factory set dimming profile along with PIR sensor for run time maximization
- Self diagnostic feature along with battery charging, discharging & cut-off LED Indicators

Line Drawings







Description	12NC	Product Dimension LxWxH (cm)
SPARE BT LFP 12.8V 30Ah SOLAR EQUIP	919415811056	30x17.5x6
SPARE BT LFP 12.8V 20Ah SOLAR EQUIP	919415811055	30x17.5x6
SPARE BT LFP 12.8V 13.6Ah SOLAR EQUIP	919415811054	22x17.5x5

Lithium Ferro Phosphate Battery

Scan the QR code for more information on this product range

PHILIPS

Lighting

ESSENTIAL SMARTBRIGHT
ALL-IN-ONE SOLAR STREET LIGHT RANGE UP-TO 4000 LUMEN

Integrated solar street light with Lithium Ferro Phosphate battery, solar panel and charger built into the luminaire. Optional pole mounting bracket. Microwave based motion sensor for optimizing battery autonomy.

Benefits

- Preserves landscape as no trenching for cabling required
- Saves energy
- Environment friendly
- Easy configurability with remote

Applications

- Gardens
- Walkways

Features

- Remote control for selecting lighting profile.
- Pole mounting Kit option available.
- High Lumen efficacy of upto 160lm/W
- Microwave sensor for run time maximization

Light Technical	
Correlated Color Temperature (Nom)	6500 K
Color rendering index (CRI)	>70
Operating and Electrical	
Battery type	Lithium Ferro Phosphate
Battery voltage	3.2 V
Charge controller type	PWM
Panel type	Poly crystalline
Panel voltage	4.5 V
Temperature	
Ambient temperature range	0 to +45 °C
Controls and Dimming	
Dimmable	Yes
Configurability	Configurable
Mechanical and Housing	
Overall height	54 mm
Approval and Application	
Ingress protection code	IP65
Application Conditions	
Battery location	Inside luminaire
Solar dimming profile	As per remote controller

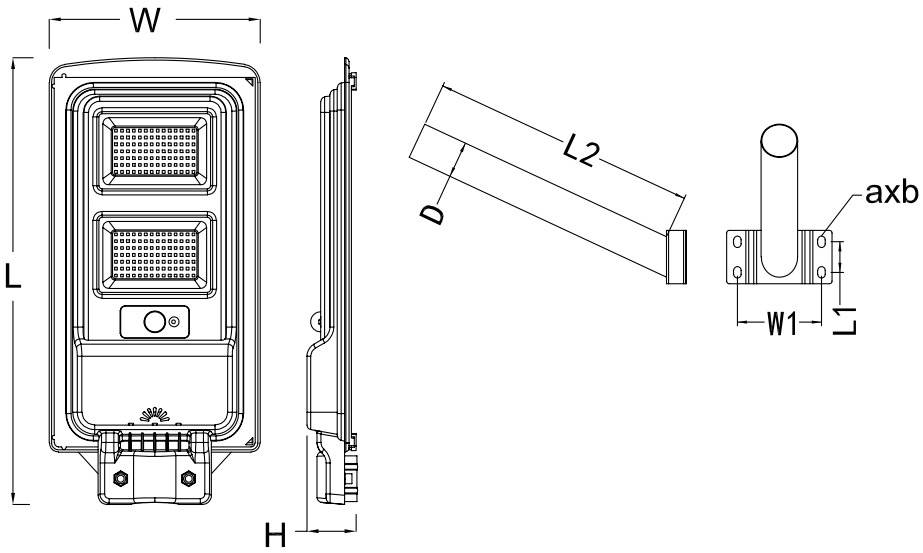
Operating and Electrical

Order Code	Full Product Name	Battery ampere hour	Panel peak wattage
911401827902	BRC010 LED20/765 kit	8 Ah	8 W
911401828002	BRC010 LED40/765 kit	15 Ah	12 W

Mechanical and Housing

Order Code	Full Product Name	Overall length	Overall width
911401827902	BRC010 LED20/765 kit	485 mm	230 mm
911401828002	BRC010 LED40/765 kit	625 mm	250 mm

Line Drawings



Scan the QR code for more information on this product range

PIERLUX
ECO HIGHBAY GEN7

LUMEN SELECT™

IP65
Ingress Protection Rating

IK08
Impact Rating

CRI 80
Colour Rendering Index

Ta-20˚C - Ta50˚C
Operational Temperature Rating

50,000hr
Lifetime (L70/B50)

5 Year
Warranty

115˚
Beam Angle

Symmetric
Beam Distribution

The Pierlux Highbay 120 and 200W is the ideal light fixture for industrial and commercial applications. With an efficacy of 180lm/W, this fixture is improvement over the previous generation and is an ultimate energy efficient product to add to an installation.

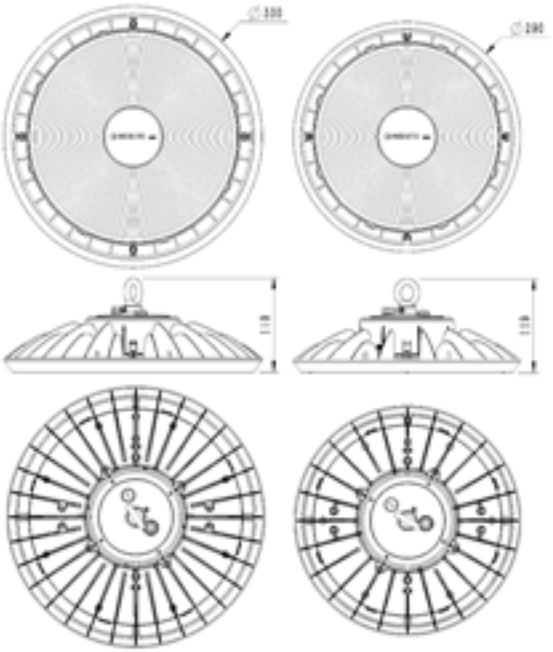
- Superior housing made of LM6 grade aluminium diecast, resistant to corrosion ideal for harsh conditions
- Built with high grade polycarbonate lens to prevent tampering and glass breakage
- Low maintenance with a long life of 60,000 hours at 50°C, 5 year warranty

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	WEIGHT	INRUSH CURRENT	LINE CURRENT
ECOHB120LSE5G7	120W, 100W, 80W, 60W	20000lm, 17200lm, 14100lm, 10800lm	160lm/W	5000K	L 290mm x W 290mm x H 119mm	1.8kg	60A	0.53A
ECOHB200LSE5G7	200W 170W, 120W, 100W	34100lm, 29600lm, 21700lm, 18400lm	160lm/W	5000K	L 330mm x W 330mm x H 119mm	2.5kg	65A	0.85A

ACCESSORY CODE	DESCRIPTION
HBDUSTCOV	Dust cover for 120W (Max Wattage 100W @ 40°C) and 200W (Max wattage 120W @ 40°C)
HBBRKT	Surface Mount Bracket Suits 120W & 200W ECO Highbay
HBPCREFR	Polycarbonate Refractor t/s ECO & DALI Highbay
HBPCLENS	Polycarbonate Refractor lens for ECO & DALI Highbay (ECOHBG5PCREF required)
HBALREFL	Highbay Aluminium Reflector t/s ECO & Dali Highbay
HBWG	Wire guard for ECO & DALI Highbay both 120W & 200W
HBGRIP2MKIT	Highbay Gripple Suspension KIT - Purlin Bracket 2m Hanger c/w 214 Gauge & Screws
HBRODBRKT	Rod Surface Mount Bracket suit 120w & 200w ECO Highbay
PRC11	Remote control for programming ECO highbay on/off control sensor ECOHBSFHF
ECOHBSFHF	Motion Sensor for Pierlux Eco Highbay

LINE DRAWINGS



ECOHB120LSE4G7, ECOHB200BRKT, ECOHB120LSE5G7, ECOHB200LSE4G7, ECOHB200LSE5G7

ECOHB120LSE4G7, ECOHB120LSE5G7, ECOHB200LSE4G7, ECOHB200LSE5G7

ECOHB120LSE4G7, ECOHB120LSE5G7, ECOHB200LSE4G7, ECOHB200LSE5G7

ECOHB200DUST

HBALREFL

HBPCREFR, HBPCLENS

420W
LED HIGHBAY

IP65
Ingress Protection Rating

CRI 80
Colour Rendering Index

Ta0˚C - Ta50˚C
Operational Temperature Rating

51,000hr
Lifetime (L70/B50)

5 Year
Warranty

Non
Dimmable

60˚
Beam Angle

The 420W highbay is made from an aluminum and steel construction with a single hanging point for heights up to 20m. The LED light source provides 124 Lumens per watt which makes it ideal for replacement over older more traditional HID Luminaires.

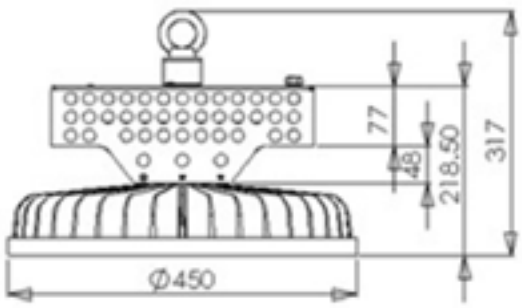
- Single hanging point for heights up to 15-20 meters
- High light output of 52,242lm
- 51,000 hours rated average design life @ L70

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS
HB420W850	420W	52242lm	124lm/W	5000K	L 317mm x W 450mm x H 450mm

ACCESSORY CODE	DESCRIPTION
HBGRIP2MKIT	Highbay Gripple Suspension Kit - Purlin Bracket 2m Hanger c/w 214 Gauge & Screws

LINE DRAWINGS



600W
LED HIGHBAY

IP66
Ingress Protection Rating

CRI 80
Colour Rendering Index

Ta0˚C - Ta55˚C
Operational Temperature Rating

51,000hr
Lifetime (L70/B50)

5 Year
Warranty

Non
Dimmable

60˚
Beam Angle

7SDCM
MacAdam Steps

The Pierlite 600W LED highbay is a robust industrial fitting made from an aluminium and steel construction with a single hanging point. The LED light source provides 133 Lumens per watt at 79,964lm and a 60° beam angle, making it an economical replacement for 1000W HID highbays.

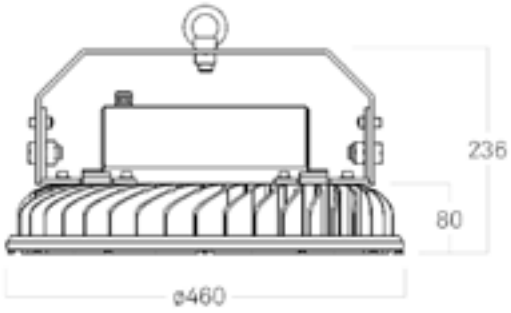
- Aluminium and steel construction with black powder coated finish
- IP66 and IK10 rated
- High ambient temperature of 55°C

PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	CCT	DIMENSIONS	INRUSH CURRENT	LINE CURRENT
HB600W85A415V60	600W	80960lm	135lm/W	5000K	L 420mm x W 420mm x H 236mm	415V	1.5A
HB600W85D240V60	600W	79964lm	133lm/W	5000K	L 420mm x W 420mm x H 236mm	240V	2.5A

ACCESSORY CODE	DESCRIPTION
99034708	Bracket Kit 600W Highbay (1 required)

LINE DRAWINGS



WARDEN 2
DALI INDUSTRIAL EXIT LUMINAIRE

IP65
Ingress Protection Rating

IK10
Impact Rating

Ta0˚C - Ta40˚C
Operational Temperature Rating

54,000hr
Lifetime (L70/B50)

4 Year
Warranty

Warden 2 DALI LED is a weatherproof exit luminaire in a rugged vandal resistant casing for areas requiring an impact and tamper proof option.

- Slimline, aesthetic and practical design
- One box solution, complete with optional pictogram inserts
- Special design applications are available on request

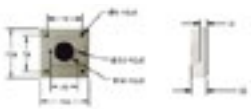
PRODUCT CODES

PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	EFFICACY	DIMENSIONS	CLASSIFICATION
WADLEDDSDA-L	5.8W	98.6lm	17lm/W	L 420mm x W 105mm x H 230mm	-
WADLEDDSDA-L4H	6.1W	103.7lm	17lm/W	L 420mm x W 105mm x H 230mm	-
WADLEDSSDA-L	5.8W	98.6lm	17lm/W	L 420mm x W 105mm x H 230mm	C0/C180: D5 & C90: E2.5
WADLEDSSDA-L4H	6.1W	103.7lm	17lm/W	L 420mm x W 105mm x H 230mm	C0/C180: D5 & C90: E2.5

BATTERY	BATTERY VOLTAGE	VIEWING DISTANCE
LiFePO4	6.4V	32m

ACCESSORY CODE	DESCRIPTION
DGLCEM3200/2L12	Battery LiFeP04 2Cell 6.4V 3200mAh
DGLCEM1500/2L21	Battery LiFeP04 2Cell 6.4V 1500mAh
97002448	Single Torx screw (4 torx screws required for single sided) (8 torx screws required for double sided)

LINE DRAWINGS



PATHFINDER
WEATHERPROOF GEN2 EMERGENCY LIGHT

IP66
Ingress Protection Rating

CRI 80
Colour Rendering Index

IK10
Impact Rating

Ta0˚C - Ta50˚C
Operational Temperature Rating

50,000hr
Lifetime (L70/B50)

4 Year
Warranty

High performance IP66 surface mount LED emergency luminaire providing omnidirectional coverage in applications such as train stations, car parks, correctional facilities, fire passages, mining and warehouses.

- Compact design with removable gear tray
- Powder coated Die Cast housing & Polycarbonate lens
- High Spec IP66, IK10 & Ta50

PRODUCT CODES

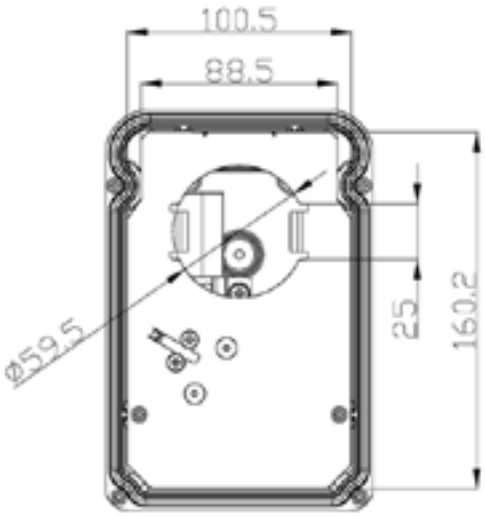
PRODUCT CODE	SYSTEM POWER	EXIT LUMEN	CCT	DIMENSIONS
PFDLED-RL2-WP	5W	466lm	5000K	L 180mm x W 120mm x H 76.50mm

CLASSIFICATION	EMERGENCY MODE WATTAGE	EMERGENCY MODE LUMEN	BATTERY	BATTERY VOLTAGE	BATTERY CAPACITY	TESTING SYSTEM
CO/C180: D100 & C90/C270: D63	5W	466lm	Li-ion	9.6V	1500mA	Self Test or DALI Monitoring

AS/NZS 2293.1:2018 CLASSIFICATION TABLE

ALLOWABLE LUMINAIRE MOUNTING HEIGHT (M)	LUMINAIRE MAXIMUM SPACING FOR EACH PLANE (M)		
	C0	C90 / C270	C180
2.1	11.5	11.5	11.5
2.4	13.2	13.2	13.2
2.7	14.8	14.8	14.8
3	16.5	16.5	16.5
3.3	18.1	18.1	18.1
3.6	19.8	19.8	19.8
4	22	22	22
4.5	24.7	24.5	24.5
5	27.5	25.2	25.2
6	31.3	26.4	26.4

LINE DRAWINGS

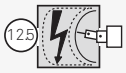
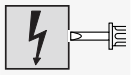
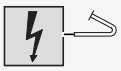


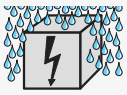
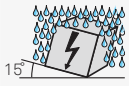
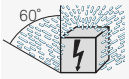
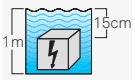
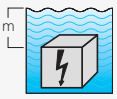
INGRESS RATING PROTECTION (IP)
DEFINED BY IEC 605908

The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers. The first number indicates the measure of protection against the ingress of solids. For instance: IP2X.

The second number indicates the measure of protection against the ingress of liquids. For instance: IPX5.

Protection against the ingress of solid objects IP.1X

IP No.	Example	Protection against contract and ingress of objects	Tests	Symbol
IP1X		Protected against solid objects greater than 50mm ø	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50mm in ø	IP1X
IP2X		Protected against solid objects greater than 12mm ø	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12mm in ø	IP2X
IP3X		Protected against solid objects greater than 2.5mm ø	Tools, wires, etc, of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in ø	IP3X
IP4X		Protected against solid objects greater than 1.0mm ø	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0mm in ø	IP4X
IP5X		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	IP5X
IP6X		Dust tight	No ingress of dust	IP6X

IP No.	Example	Protection against contract and ingress of objects	Tests	Symbol
IPX1		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect	IPX1
IPX2		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position	IPX2
IPX3		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect	IPX3
IPX4		Protected against splashing water	Water splashed against the enclosure from any direction hall have no harmful effect	IPX4
IPX5		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect	IPX5
IPX6		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities	IPX6
IPX7		Protected against effects of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time	IPX7
IPX8		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. NOTE: Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects	IPX8

INGRESS RATING PROTECTION (IP)
DEFINED BY UTE 20010

DEGREE OF IMPACT PROTECTION EN62262

IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

Number	Measure of protection – impact energy (joules)	Test
IK00	No protection to this standard	-
IK01	0.15	0.20kg impact
IK02	0.20	0.20kg impact
IK03	0.35	0.20kg impact
IK04	0.50	0.20kg impact
IK05	0.70	0.20kg impact

Number	Measure of protection – impact energy (joules)	Test
IK06	1.00	0.50kg impact from 200mm
IK07	2.00	0.50kg impact from 400mm
IK08	5.00	1.70kg impact from 295mm
IK09	10.00	5.00kg impact from 200mm
IK10	20.00	5.00kg impact from 400mm

When higher impact energy protection is required 50 joules is recommended.

TABLE FOR CHEMICAL RESISTANCE

The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers. The first number indicates the measure of protection against the ingress of solids. For instance: IP2X.

The second number indicates the measure of protection against the ingress of liquids. For instance: IPX5.

Chemical material investigated	Aluminium	Fibreglass	Acrylic	Polycarbonate	Stainless steel
Accumulator Acid	▲	●	●	■	■
Acentic acid (up to) 5%	■	●	●	●	●
Acentic Acid (up to) 15%	▲	●	●	●	●
Acetone	●	▲	▲	▲	●
Alcohol (up to) 30%	■	●	●	●	●
Alcohol Concentrate	●	▲	▲	●	●
Ammonia			■	▲	
Ammonia 25%	●	■	●	■	●
Aniline	●	▲	▲	▲	●
Aromatic Hydrocarbons	●	■	●	⬣	●
Benzene	●	▲	▲	■	●
Carbon Dioxide	●	●	●	●	●
Carbon Monoxide	●	●	●	●	●
Carbon Tetrachloride	■	■	■	●	●
Caustic Soda 2%	▲	■	●	▲	●
Caustic Soda 10%	▲	▲	●	▲	●
Chloroform	●	▲	▲	▲	■
Common Salt	■	●	●	■	●
Crude Oil	●	●	●	⬣	●
Diesel Oil	●	●	●	■	●
Dioxane		●	▲	▲	●
Ether	●	■	▲	▲	●
Ethyl Acetate	●	▲	▲	●	●
Glycerine	●	●	●	■	●
Glycol	●	●	●	●	●
Hydrobomic			▲	■	
Hydrobomic Acid	▲	▲	■		▲
Hydrocarbons	●	■	■	⬣	●
Hydrochloric Acid 5%	▲	●	●	●	▲
Hydrochloric Acid 30%	▲	●	●	●	▲
Hydrochloric Acid 96%	▲	●	●	●	▲
Hydrogen Peroxide 40%	■	▲	●	■	●

Chemical material investigated	Aluminium	Fibreglass	Acrylic	Polycarbonate	Stainless steel
Hydrogen Peroxide (over) 40%	●	▲	■	▲	●
Hydrogen Sulphide	●	●	●	⬣	●
Ketones	●	▲	▲	●	●
Lysol	●	▲	▲	▲	●
Metal salts & their aqeous solutions	▲	●	●	●	■
Methanol	●	■	▲	●	●
Methylene Chloride	■	▲	▲	▲	●
Milk of lime	▲	●	●	■	●
Nitric Acid 5%	▲	●	●	●	●
Nitric Acid 30%	▲	■	■	■	■
Nitric Acid concentrate	▲	▲	▲	▲	●
Oils			■	■	
Parafins			●	●	
Petrol	●	●	●	●	●
Petroleum Ether	●		●	●	●
Phenol	■	▲	▲	▲	●
Phosphoric			▲	■	
Pyridine	●	▲	▲	●	●
Sea water	■	●	●	●	●
Soap suds	■	●	●	⬣	●
Soda	▲	●	●	●	■
Sodium Hydroide			■	▲	
Sulphuric Acid 5%	▲	●	●	●	▲
Sulphuric Acid 30%	▲	●	●	●	▲
Sulphuric Acid concentrate	▲	▲	▲	■	▲
Sulphurous Acid 5%	■	■	●	▲	■
Synthetic detergent	▲	●	●	●	●
Turpentine	●	●	●	●	●
Water (up to) 70°C	●	●	●	●	●
Xylene	●	▲	▲	▲	●

Due to continual development, information is subject to change without notification

● Resistant | ■ Resistant within limits | ▲ Not resistant | ⬣ Resistant when saturated, resistant within limits when unsaturated

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