



PHOENIX LIGHTING
Industrial/Mining/Hazardous Area Lighting Solutions



CLASS LEADING LIGHTING

Phoenix EMS is a leader in the design and manufacture of Industrial/Mining LED Lighting & Value-Add Solutions.

Our manufacturing capability is enhanced by fully resourced engineering, planning, scheduling and purchasing. This allows Phoenix EMS to handle product variations as well as engineer bespoke designs.

Phoenix EMS are the preferred choice of LED Lighting & Light Pole solutions. Our packaged solutions provide our customers with a commercial and technical advantage.

We also engineer, manufacture and design a complete range of Ultraswing Plant, Fixed, Mid-Hinged and Instrument Poles for our projects.

Phoenix EMS utilises the latest Lighting Design software to assist clients with Lighting Design to meet Australian Standards, Energy Saving Proposals and Audits, 3D Modelling and Intelligent Lighting Solutions.

Phoenix EMS operates Australia wide and has an extensive distribution network.



WITH DEPENDABLE QUALITY

Phoenix EMS luminaires are manufactured in accordance with ISO9000 in accredited facilities and comply with all relevant mandatory Australian Safety and EMC Standards. The products utilise the latest LED technology and are designed to handle tough environments where environmental degradation can cause premature failure of standard lighting products. Some of these factors include, high ambient temperatures, dust, water and chemical corrosion.



ULTRASWING



EXCALIBUR
ENCLOSURES

MANUFACTURED BY PHOENIX EMS

CONTENTS

 <p>ILLUMINATOR 6</p>	 <p>CYCLOPS 12</p>	 <p>EXPLORER 16</p>	 <p>HUNTER 20</p>	 <p>ILLUMINATOR EXTREME 24</p>
 <p>PHOENIX CHALLENGER 50</p>	 <p>CRUSADER 54</p>	 <p>FLIGHT SERIES 58</p>	 <p>EAGLE 62</p>	 <p>FALCON 66</p>
 <p>HARRIER EXTREME 90</p>	 <p>HARRIER PLUS 94</p>	 <p>ROVER 98</p>	 <p>RAPTOR 102</p>	 <p>RUNNING MAN I 106</p>
 <p>SOLARNATOR 130</p>	 <p>SOLAR SYSTEMS AND VALUE ADD SOLUTIONS 134</p>	 <p>SCOUT 136</p>	 <p>CONDOR SERIES 140</p>	 <p>CHIEF 144</p>

CONVEYOR & BULKHEAD LIGHTS	6
TUNNEL/CONVEYOR/PLANT LIGHTS	24
HIGH-POWER FLOODLIGHTS	34
AREA LIGHTING	54
LED BATTENS WEATHERPROOF	62
STRIP LIGHTING	82
LED HIGH & LOW BAYS	86
LINEAR LIGHTS	102

EXIT LIGHTING	106
SOLAR LED	118
WALL PACK LIGHTS	136
HAZARDOUS AREA	140
MOBILE MACHINERY	160
VALUE ADD CAPABILITY	166
LIGHTING STUDIES	168
GLOSSARY	170



PHOENIX MASTER

28



PHOENIX PLUS

34



RAIDER SERIES

38



HAWK

42



HAWK JNR

46



KESTREL

70



TEXTL

74



INHIBITOR

78



THUNDERBIRD

82



GUARDIAN

86



RUNNING MAN II

110



RUNNING MAN III

114



APOLLO

118



GALACTIC PLUS

122



GALACTIC MAX

126



FALCON X

148



DEFENDER

152



WARRIOR

156



SPHINX 27-120

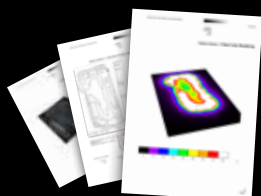
160



TURNKEY SOLUTIONS & PACKAGES

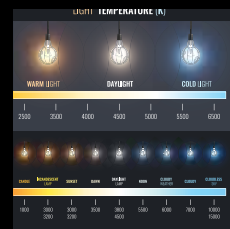
166

LIGHTING DESIGN CAPABILITIES



168

GLOSSARY



170

CONVEYOR & BULKHEAD LIGHTS



ILLUMINATOR

CONVEYOR & BULKHEAD LIGHTS



ILLUMINATOR

The Illuminator is the newest addition to the Phoenix EMS industrial lighting family and is designed to push the light further than ever before with 15 Meter spacing across Conveyor, Walkway and Platform Lighting.

The Illuminator reduces the number of light fittings through the use of superior optics and technology to reduce capital costs and provides a fitting that operates reliably in dusty, dry & hot Australian mining conditions.



TYPICAL APPLICATIONS



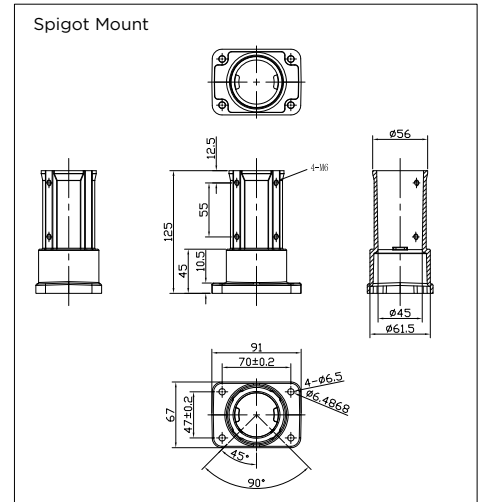
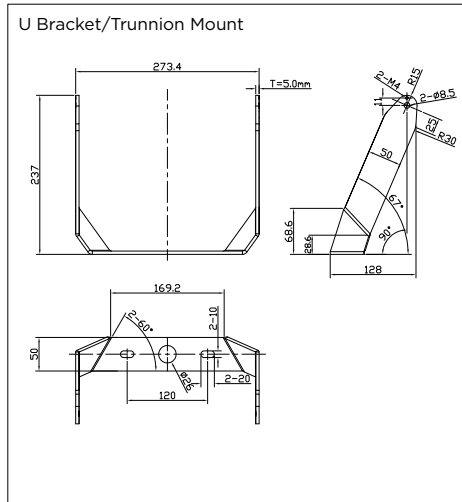
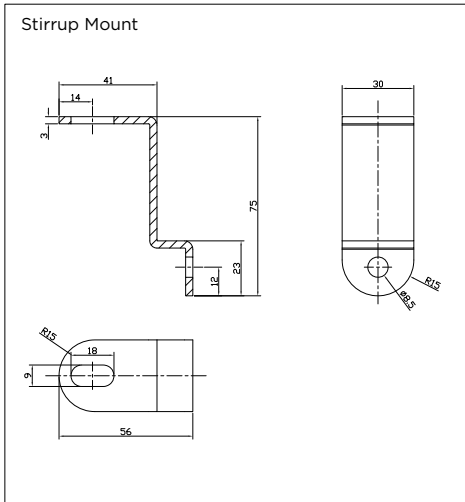
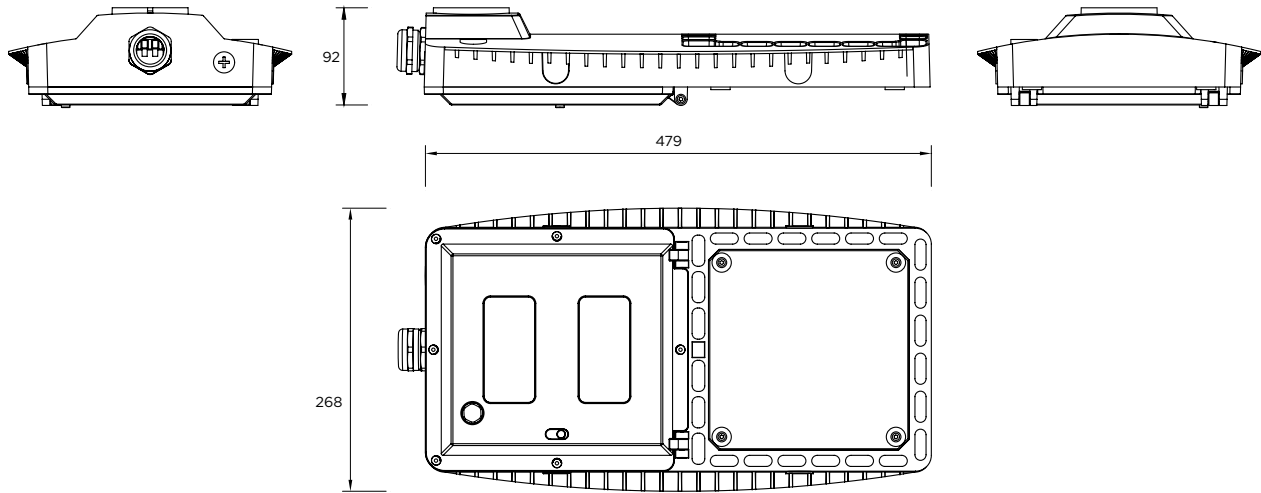
Coal & Metalliferous Mine Process Plants, Quarries, Campsite Area Lighting, General Area Lighting Car Parks, Conveyors, Pedestrian Access Road Ways, Stacker/Reclaimers, Stairwells, Tunnels, Walkways Bulkheads.

SPECIFICATIONS

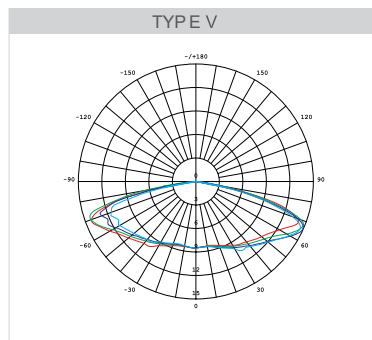
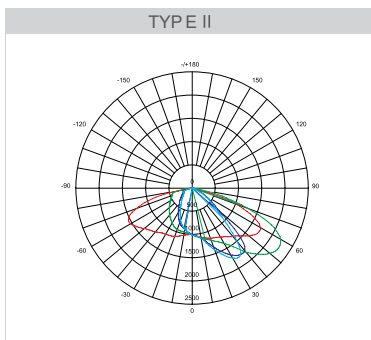
Model	PLI20	PLI30	PLI40	PLI50	PLI60	PLI37DC
Optical Characteristics						
Rated Wattage	20W	30W	40W	50W	60W	37W
Lumens	3140	4710	6280	7850	9420	5809
System Efficacy	157Lm/W @ 4000K					
Colour Temperature CCT	3CCT (2200K Amber Turtle Friendly / Green Eyewash)					
CRI (Ra)	>70					
Reported L70	>50,000 Hours					
Lens Optic Type	Type II / Type V					
Electrical Characteristics						
Input	90-305VAC					24VDC
Frequency	50Hz					N/A
Powerfactor	>0.95 / 230VAC					<0.9
Total Harmonic Distortion	<15%					N/A
Environment						
IP Rating	IP66					
Impact Rating	IK08 (Optional IK09)					
Operating Temperature	-40°C To 50°C (0°C To 50°C Emergency Battery)					
Product Material and Mounting						
Option 1	Spigot Mount					
Option 2	U Bracket/Trunnion Mount					
Option 3	Stirrup Mount For Ceiling/Wall					
Product Material	Die Casting Aluminium					
Lens / Optics Material	Tempered Glass (PC Lens Optional)					
Dimensions and Weights						
Product Dimensions	479*268*92					
Product Weight	7.5KG					
Packaging Dimensions	690*335*170					
Gross Weight	8.5KG					
Warranty and Certifications						
Warranty	5 Year Warranty					
Certifications	SAA / EMC					

CONVEYOR & BULKHEAD LIGHTS

DIMENSIONS



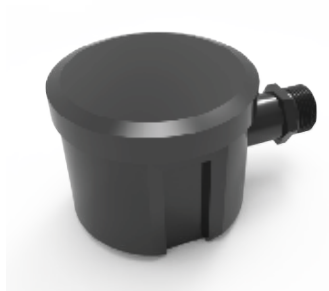
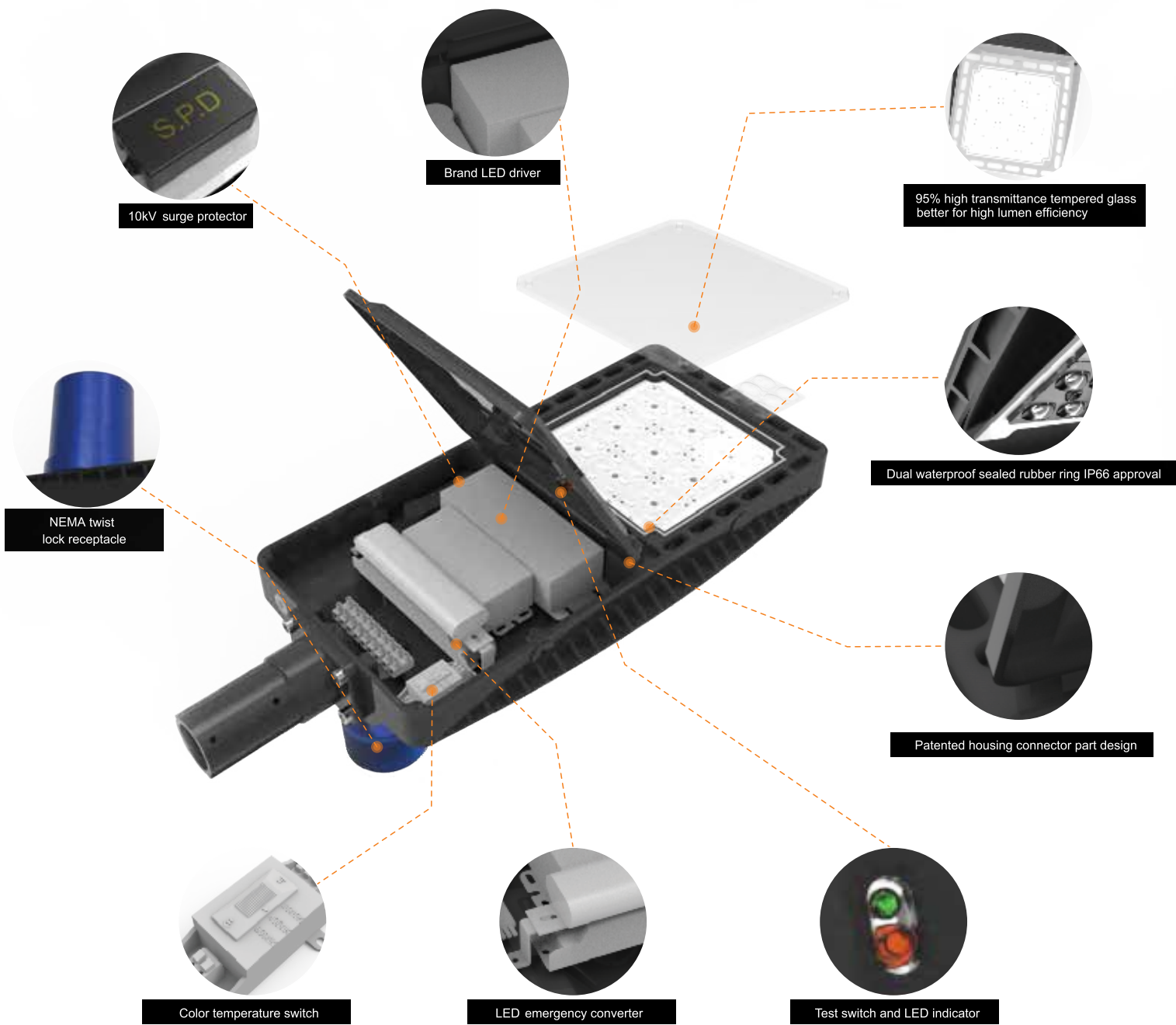
PHOTOMETRIC DIAGRAMS



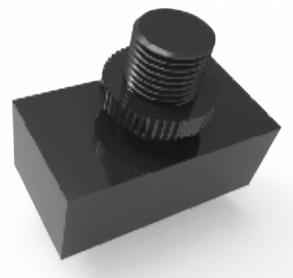
**Type I, III, IV available upon request



BULKHEAD MINING FITTING STRUCTURE CHART



Motion Sensor (Optional)



Daylight Sensor (Optional)



ORDERING METHODOLOGY

PLI	XX WATTS	XX MOUNTING	XX LENS TYPE	X VOLTAGE	XX FUNCTION
	20W 30W	SP (SPIGOT ADAPTOR)	T2 (TYPE II) T5 (TYPE V)	G (90-305VAC) L (24V DC)	X (STANDARD) E (EMERGENCY)
	37W (24V DC VOLTAGE) 40W 50W 60W	UB (U BRACKET) ST (STIRRUP MOUNT)			

ACCESSORIES/CONTROLS

SPIGOT ADAPTOR
 U BRACKET
 STIRRUP MOUNT
 CORROSION PROTECTION COATING
 AMBER TURTLE FRIENDLY 2200K
 GREEN EYEWASH
 DAY/NIGHT SENSOR
 MOTION SENSOR (INDOOR UP TO 12 METRES)
 MOTION SENSOR (OUTDOOR UP TO 12 METRES)
 NEMA 7 PIN SMART CELL

PLI/SP
 PLI/UB
 PLI/ST
 PLI/PC
 PLI/A
 PLI/G
 PLI/DN
 PLI/MSOD
 PLI/NEMA



Green Eyewash Available



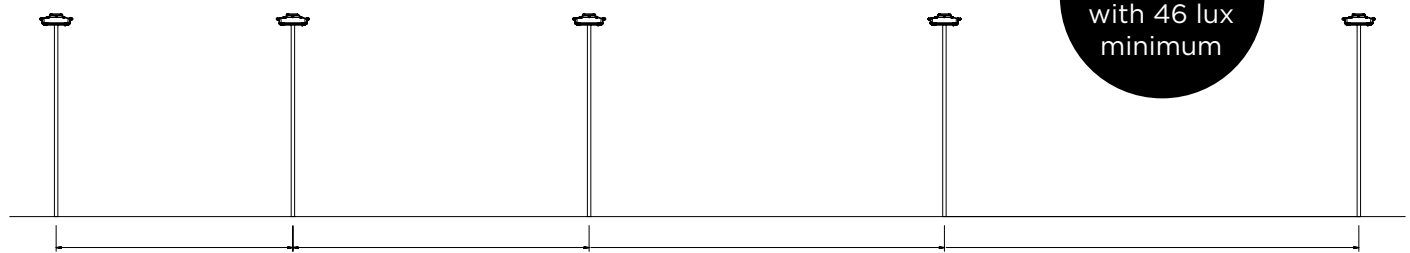
2200K Amber Turtle Friendly Available

SMART TECHNOLOGY

The Illuminator is Smart Technology ready and can be provided with a NEMA 7 Pin Smart Cell.

SPACINGS

50W-5000K-Type II Optics Model
 Mounting Height: 3.0m
 Maintenance Factor: 0.7
 Walkway Width: 1.0m



Up to 15m spacing with 46 lux minimum

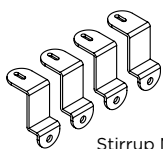
Spacing: 8 Meters
 Ave = 173 lux
 Min = 135 lux
 Min/Ave = 0.78

Spacing: 10 Meters
 Ave = 139 lux
 Min = 111 lux
 Min/Ave = 0.8

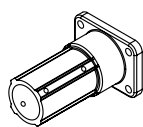
Spacing: 12 Meters
 Ave = 115 lux
 Min = 82 lux
 Min/Ave = 0.71

Spacing: 15 Metres
 Ave = 92 lux
 Min = 46 lux
 Min/Ave = 0.5

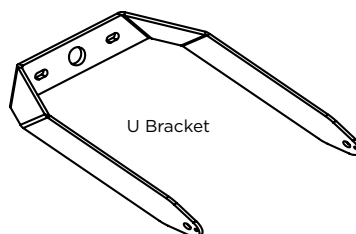
MOUNTING OPTIONS



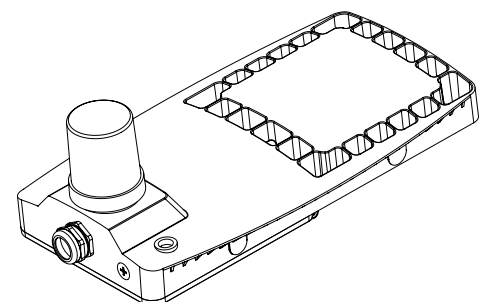
Stirrup Mount



Spigot Mount



U Bracket



CONVEYOR & BULKHEAD LIGHTS



CONVEYOR & BULKHEAD LIGHTS



CYCLOPS

CONVEYOR & BULKHEAD LIGHTS

CYCLOPS

The Cyclops is a high powered LED Conveyor Light fitted with a high transmittance optical lens providing maximum luminous efficiency up to 130Lm/W. It also features a super slim and elegant design structure to meet the IP66 and IK08 requirements, along with a die-cast body to control and regulate temperature rise and heat dissipation performance.



TYPICAL APPLICATIONS



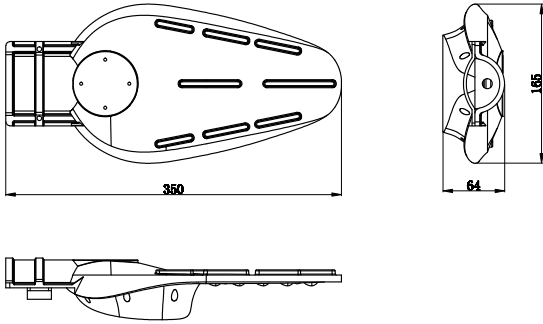
Collector Road, Local Road, Residential Road, Country Road

SPECIFICATIONS

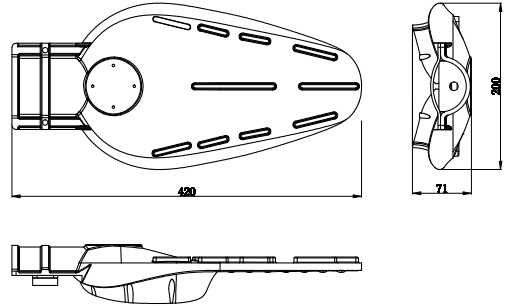
Model	PLICYC20	PLICYC30	PLICYC40	PLICYC50	PLICYC60	PLICYC70	PLICYC80	PLICYC90	PLICYC100	
Optical Characteristics										
Rated Wattage	20W	30W	40W	50W	60W	70W	80W	90W	100W	
Lumens	2600	3900	5200	6500	7800	9100	10400	11700	13000	
System Efficacy	130Lm/W									
Colour Temperature CCT	5700 (5000K / 4000K)									
CRI (Ra)	>70									
Reported L70	>50,000									
Lens Optic Type	Type II (20W-50W) / Type III (60W-100W)									
Electrical Characteristics										
Input	120-277VAC									
Frequency	50Hz									
Powerfactor	>0.95									
Total Harmonic Distortion	15%									
Environment										
IP Rating	IP66									
Impact Rating	IK08									
Operating Temperature	-20°C To 50°C									
Product Material and Mounting										
Option 1	Spigot 40-50mm / 40-60mm									
Product Material	Aluminum Housing									
Lens / Optics Material	PC Lens									
Dimensions and Weights										
Product Dimensions	350*165*64		420*200*71			546*260*80				
Product Weight	1.1KG		1.6KG			2.8KG				
Packaging Dimensions	425*425*450 (Ctn 8)		490*490*250 (Ctn 4)			570*295*190 (Ctn 2)				
Gross Weight	8.8KG		6.4KG			5.6KG				
Warranty and Certifications										
Warranty	5 Year Warranty									
Certifications	CE									

DIMENSIONS

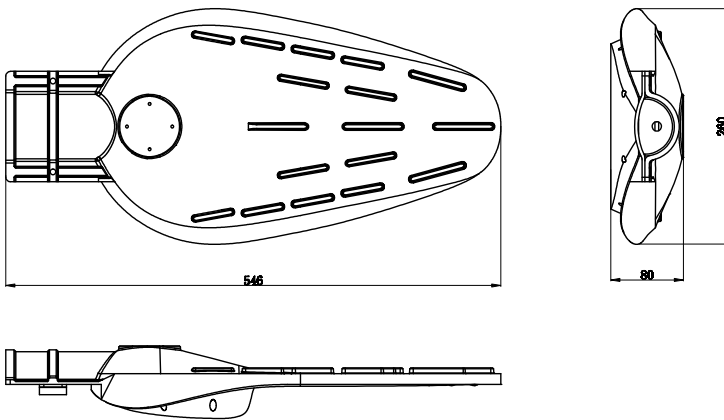
20W/30W



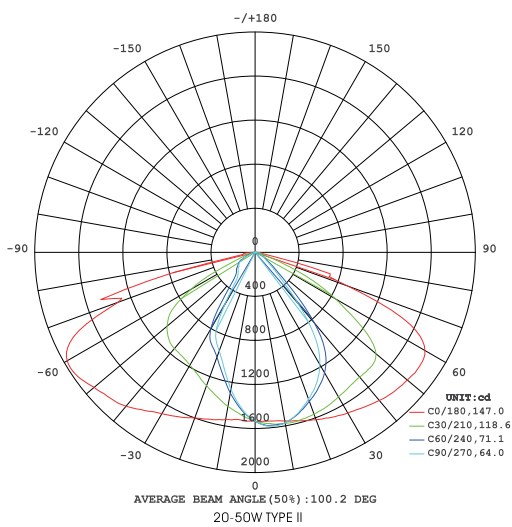
40W/50W



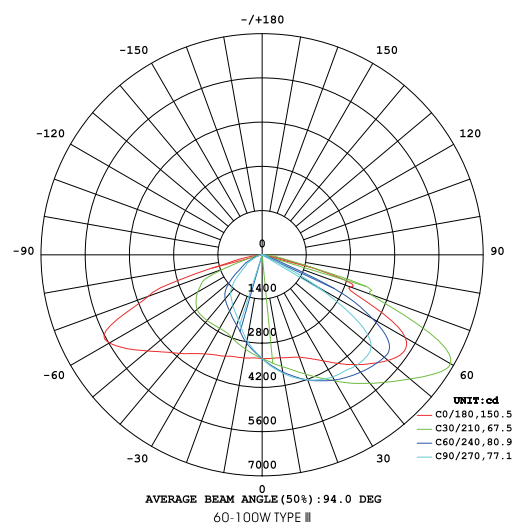
60W/70W/80W/90W/100W



PHOTOMETRIC DIAGRAMS



TYPE II



TYPE III

ORDERING METHODOLOGY

PLI-CYC

X WATTS (W)	XX CCT (K)
20W	57 (5700K)
30W	50 (5000K)
40W	40 (4000K)
50W	
60W	
70W	
80W	
90W	
100W	

ACCESSORIES/CONTROLS

- | | |
|----------------------------------|-------------|
| SPIGOT 40-50MM | PLICYC/SP01 |
| SPIGOT 40-60MM | PLICYC/SP02 |
| MOTION SENSOR | PLICYC/M |
| PHOTO SENSOR | PLICYC/P |
| DALI | PLICYC/DA |
| 10KV SURGE PROTECTOR | PLICYC/10KV |
| NEMA RECEPTACLE | PLICYC/NEMA |
| ZIGBEE/PLC DUAL MODE STREET LAMP | PLICYC/PLC |



CONVEYOR & BULKHEAD LIGHTS



EXPLORER

EXPLORER

The Explorer features a marine grade chromated aluminium enclosure and powder-coated finish combined with a high impact borosilicate glass lens making it suitable for corrosive environments. The IP66 rating of the Explorer allows it to withstand high pressure cleaning and resistance from chemical cleaning agents.



TYPICAL APPLICATIONS



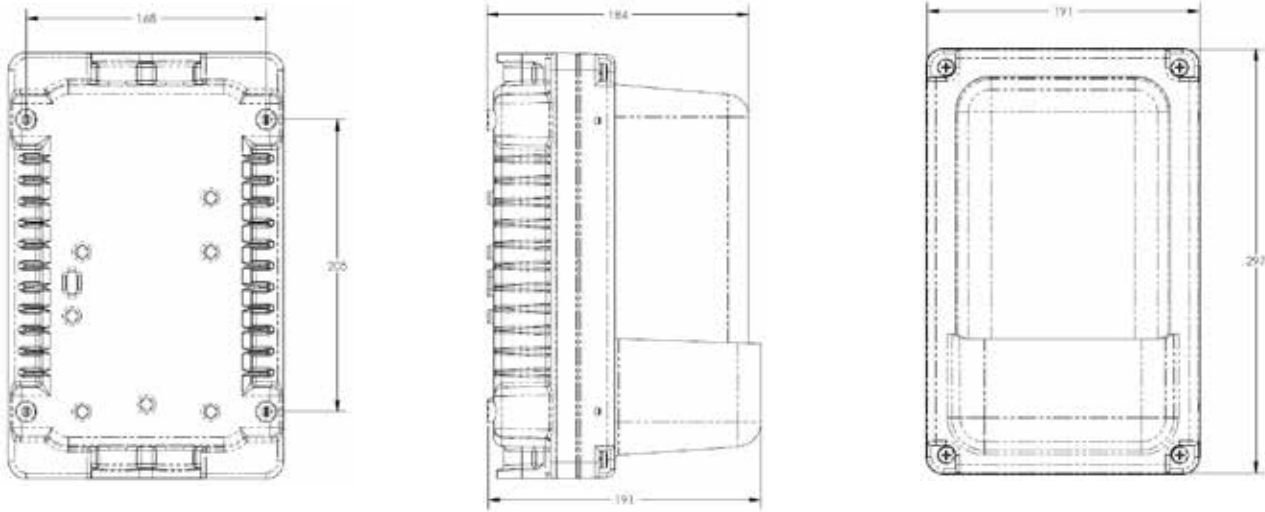
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

SPECIFICATIONS

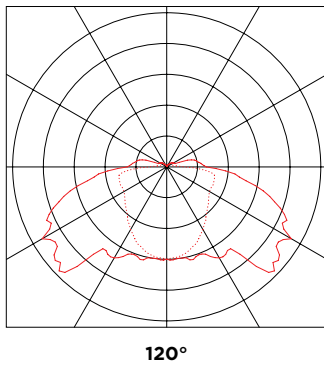
Model		PLIEXP24
Optical Characteristics		
Rated Wattage		24W
Lumens		2585
System Efficacy		100Lm/W
Colour Temperature CCT		4000K (6000K / 3000K)
CRI (Ra)		>80
Reported L70		>50,000 Hours
Lens Optic Type		120°
Electrical Characteristics		
Input		AC180-240V
Frequency		50Hz
Powerfactor		>0.95
Total Harmonic Distortion		N/A
Environment		
IP Rating		IP66
Impact Rating		IK08
Operating Temperature		-25°C To 40°C
Product Material and Mounting		
Option 1		Surface Mount
Product Material		Aluminum Body
Lens / Optics Material		Tempered Glass
Dimensions and Weights		
Product Dimensions		297*184*191
Product Weight		3.0KG
Packaging Dimensions (Ctn 6)		725*300*390
Gross Weight (Ctn 6)		18.0KG
Warranty and Certifications		
Warranty		5 Year Warranty
Certifications		CE / RoHS / ETL

CONVEYOR & BULKHEAD LIGHTS

DIMENSIONS



PHOTOMETRIC DIAGRAMS



ORDERING METHODOLOGY

PLI-EXP

**XX
WATTS**

24W

**XX
CCT**

60 (6000K)
40 (4000K)
30 (3000K)

**XX
FUNCTION**

ST (STANDARD)
EM (EMERGENCY)

ACCESSORIES

POLE MOUNT BRACKET
45° BRACKET
WALL MOUNT BRACKET
EMERGENCY KIT

PLIEXP/PM
PLIEXP/45B
PLIEXP/WM
PLIEXP/24KIT

CONVEYOR & BULKHEAD LIGHTS



CONVEYOR & BULKHEAD LIGHTS



HUNTER

CONVEYOR & BULKHEAD LIGHTS

HUNTER

The Hunter is the perfect solution for Conveyor, Walkway and Platform Lighting as it is available in either a polyester powder-coated aluminium body or a 316 stainless steel body. These options make it suitable for areas in high corrosion such as Coal Washeries, Materials Handling and Industrial Processing Plants.



TYPICAL APPLICATIONS



Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

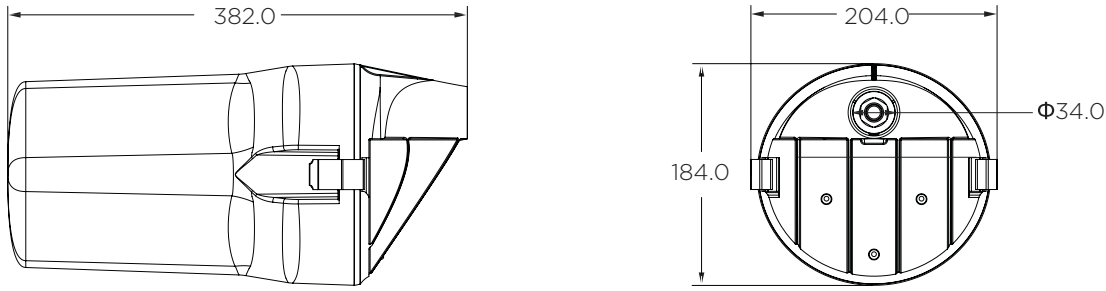
SPECIFICATIONS

Model	PLIHTR48
Optical Characteristics	
Rated Wattage	48W
Lumens	5520
System Efficacy	115Lm/W
Colour Temperature CCT	3000K (5000K / 4000K / Green Eyewash)
CRI (Ra)	>80
Reported L70	>50,000 Hours
Lens Optic Type	Type II
Electrical Characteristics	
Input	AC90-240V
Frequency	50Hz
Powerfactor	>0.95
Total Harmonic Distortion	<9%
Environment	
IP Rating	IP66
Impact Rating	IK10
Operating Temperature	-25°C To 40°C
Product Material and Mounting	
Mounting	Suits 34mm Spigot
Product Material	Aluminum or Stainless Steel Housing
Lens / Optics Material	PMMA
Dimensions and Weights	
Product Dimensions	382*184*204
Product Weight	4.7KG
Packaging Dimensions (Ctn 6)	435*705*430
Gross Weight (Ctn 6)	28.2KG
Warranty and Certifications	
Warranty	5 Year Warranty
Certifications	CE / RoHS

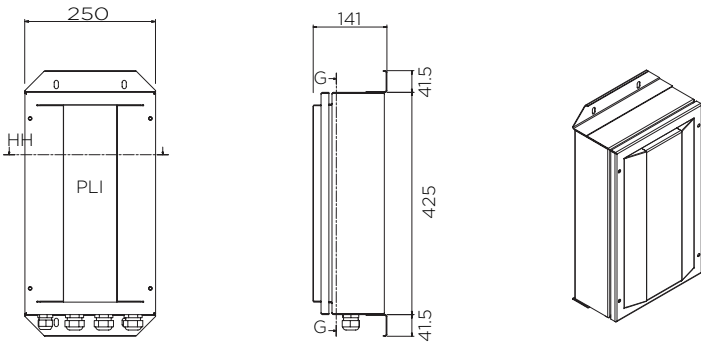
CONVEYOR & BULKHEAD LIGHTS

DIMENSIONS

Fixture

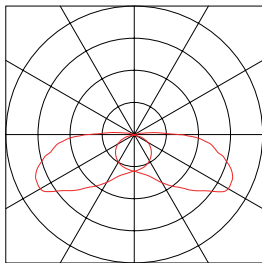


Remote Emergency Terminal Box



Green Eyewash Available

PHOTOMETRIC DIAGRAMS



TYPE II

ORDERING METHODOLOGY

PLI-HTR

XX
WATTS
48

XX
CCT

- 50 (5000K)
- 40 (4000K)
- 30 (3000K)
- G (GREEN EYEWASH)

X
HOUSING

- S (STAINLESS STEEL)
- A (ALUMINUM)

XXXX
FUNCTION

- ST (STANDARD)
- R/HETB (REMOTE EMERGENCY)
- I (INTEGRATED EMERGENCY)

ACCESSORIES

HUNTER REMOTE EMERGENCY TERMINAL BOX

PLIHTR/HETB

CONVEYOR & BULKHEAD LIGHTS



TUNNEL/CONVEYOR/PLANT LIGHTS



ILLUMINATOR EXTREME

ILLUMINATOR EXTREME

The Illuminator Extreme is the newest addition to the Phoenix EMS Industrial Lighting family. It is manufactured in 316 Stainless Steel and designed to push the light further than ever before with 15 Meter spacing across conveyor walkway and platform lighting.

The Illuminator Extreme reduces the number of light fittings by the use of superior optics and technology to reduce capital costs and provides a fitting that operates reliably in dusty, dry & hot Australian mining conditions.



TYPICAL APPLICATIONS

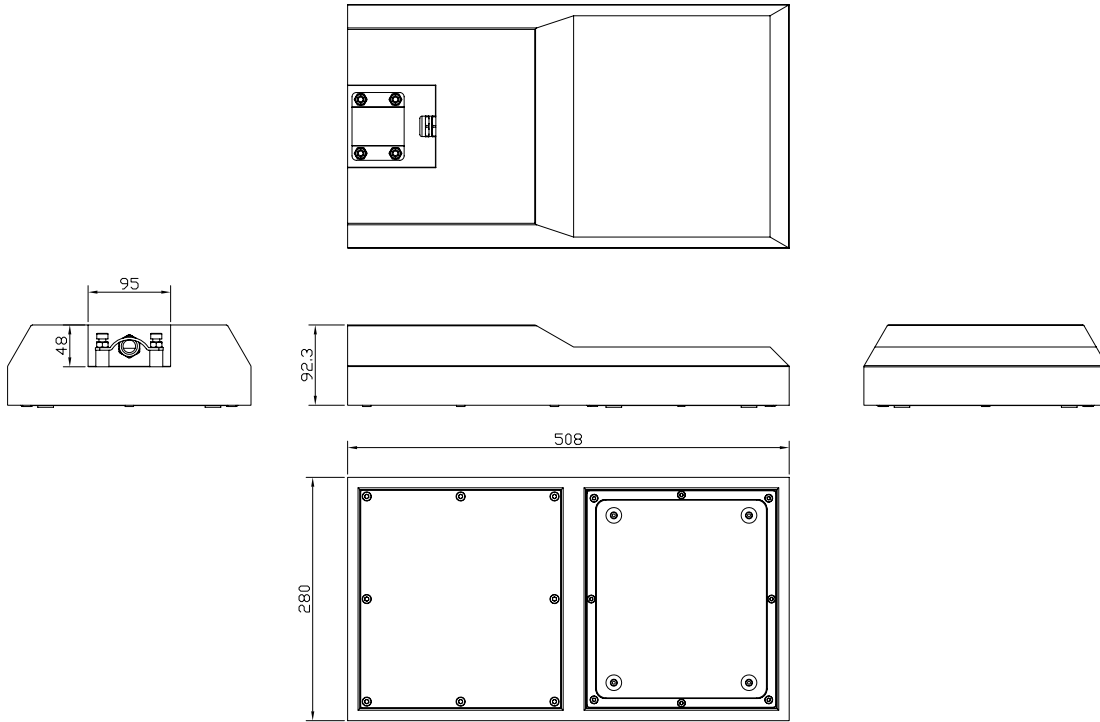


Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharves & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

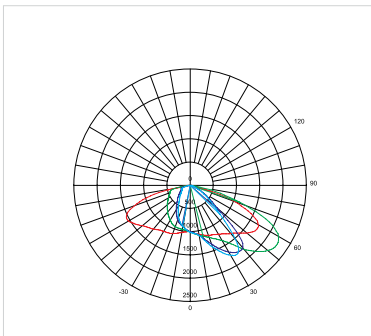
Model	PLIX20	PLIX30	PLIX40	PLIX50	PLIX60	PLIX37DC
Optical Characteristics						
Rated Wattage	20W	30W	40W	50W	60W	37W
Lumens	3140	4710	6280	7850	9420	5809
System Efficacy	157Lm/W					
Colour Temperature CCT	3CCT (2200K Amber Turtle Friendly / Green Eyewash)					
CRI (Ra)	>70					
Reported L70	>50,000 Hours					
Lens Optic Type	Type II /Type V					
Electrical Characteristics						
Input	90-305VAC					24VDC
Frequency	50Hz (Optional 60Hz)					N/A
Powerfactor	>0.95 / 230VAC					<0.9
Total Harmonic Distortion	<15%					N/A
Environment						
IP Rating	IP66					
Impact Rating	IK08 (Optional IK09)					
Operating Temperature	-40°C To 50°C (0°C To 50°C Emergency Battery)					
Product Material and Mounting						
Option 1	Spigot Mount					
Option 2	U Bracket/Trunnion Mount					
Option 3	Stirrup Mount For Ceiling/Wall					
Product Material	Powder-coated 316 Stainless Steel					
Lens / Optics Material	PC Lens					
Dimensions and Weights						
Product Dimensions	508*280*92.3					
Product Weight	7.5KG					
Packaging Dimensions	690*335*170					
Gross Weight	8.5KG					
Warranty and Certifications						
Warranty	5 Years Warranty					
Certifications	SAA / EMC					

DIMENSIONS

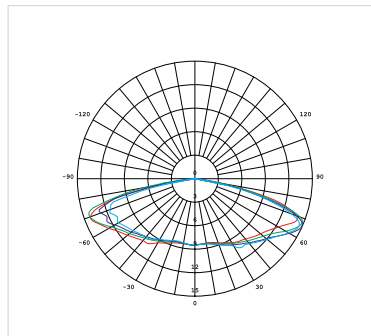


PHOTOMETRIC DIAGRAMS

TYPE II

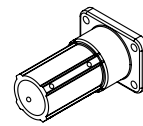
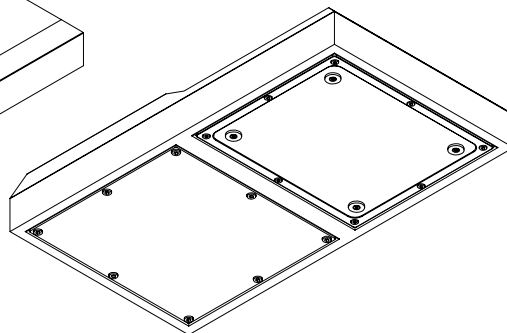
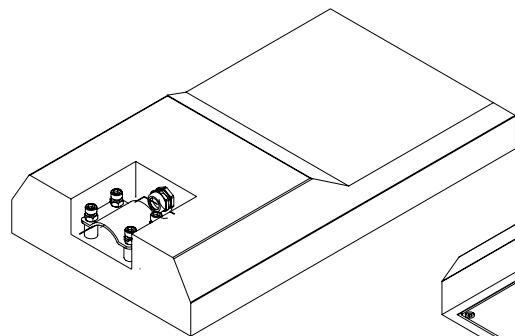


TYPE V

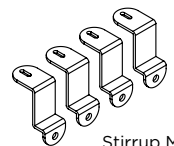


**TYPE I, III, IV available upon request

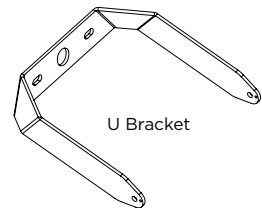
MOUNTING OPTIONS



Spigot Mount

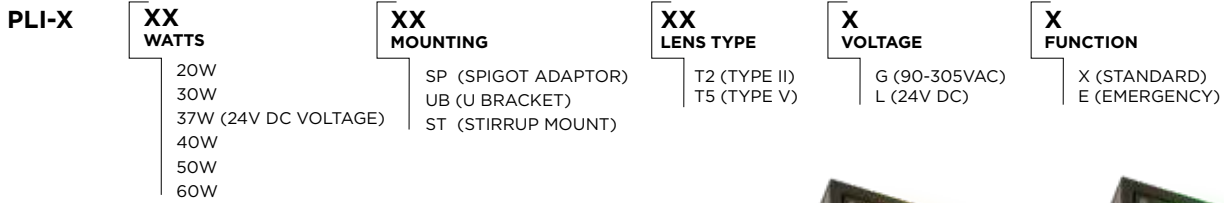


Stirrup Mount



U Bracket

ORDERING METHODOLOGY



ACCESSORIES

- | | |
|---|-----------|
| SPIGOT ADAPTOR | PLIX/SP |
| U BRACKET | PLIX/UB |
| STIRRUP MOUNT | PLIX/ST |
| CORROSION PROTECTION COATING | PLIX/PC |
| DAY/NIGHT SENSOR | PLIX/DN |
| MOTION SENSOR (INDOOR UP TO 12 METRES) | PLIX/MSID |
| MOTION SENSOR (OUTDOOR UP TO 12 METRES) | PLIX/MSOD |
| AMBER TURTLE FRIENDLY 2200K | PLIX/A |
| GREEN EYEWASH | PLIX/G |
| NEMA 7 PIN SMART CELL | PLIX/NEMA |



Amber Turtle Friendly



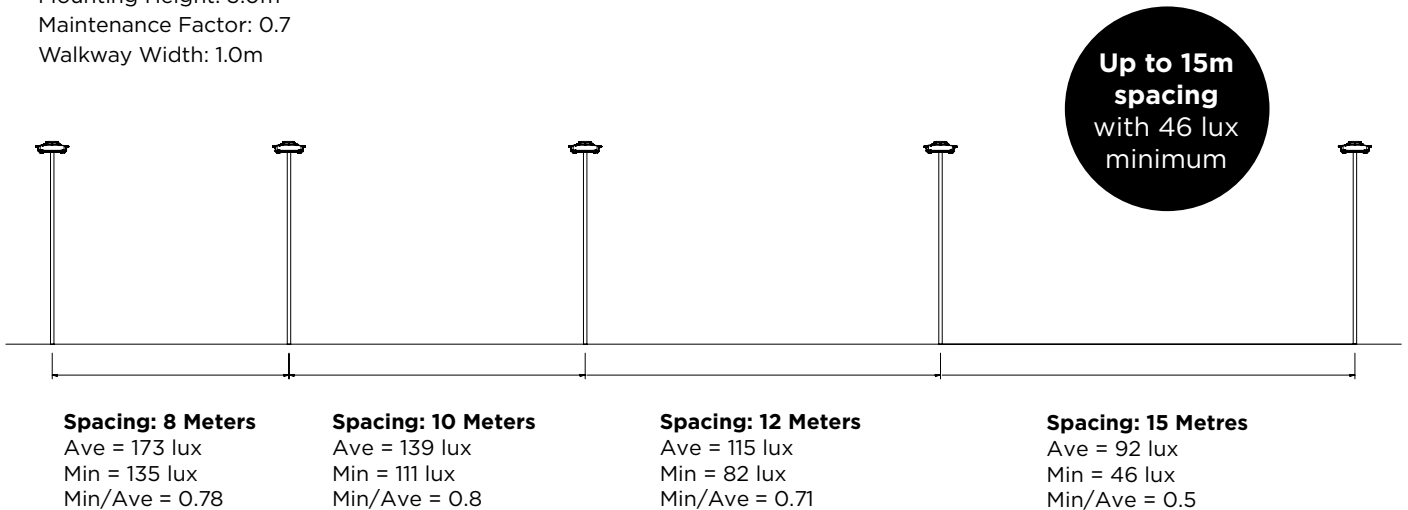
Green Eyewash

SMART TECHNOLOGY

The Illuminator is Smart Technology ready and can be provided with a NEMA 7 Pin Smart Cell.

SPACINGS

50W-5000K-Type II Optics Model
 Mounting Height: 3.0m
 Maintenance Factor: 0.7
 Walkway Width: 1.0m



TUNNEL/CONVEYOR/PLANT LIGHTS



**PHOENIX
MASTER**

PHOENIX MASTER

The Phoenix Master is a brand-new state of the art competitive universal solution for Tunnels, Conveyor & Plant lighting applications. The patented design appearance enables the lamp to have a self-cleaning function to avoid dust collection and its double anti-thunder technology allows the fixture to operate smoothly in extreme conditions. The Phoenix Master also features a built-in 3CCT colour temperature adjustment or the choice of 2200K Amber Turtle Friendly and Green Eyewash.



TYPICAL APPLICATIONS



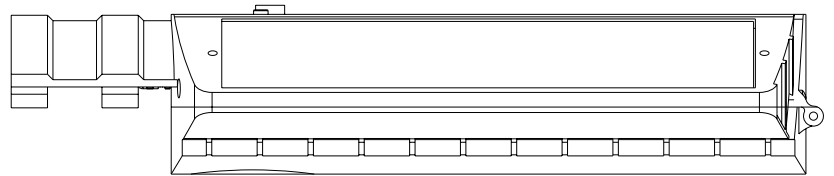
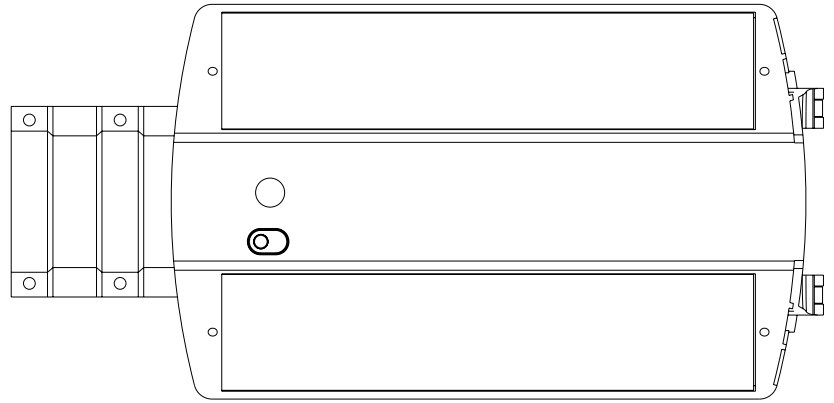
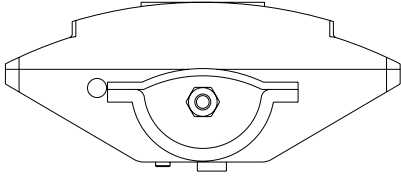
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

Model	PLIPHXM50	PLIPHXM70
Optical Characteristics		
Rated Wattage	50W	70W
Lumens	6750	9450
System Efficacy	135Lm/W	
Colour Temperature CCT	3CCT (2200K Amber Turtle Friendly / Green Eyewash)	
CRI (Ra)	>70	
Reported L70	>50,000 Hours	
Lens Optic Type	Type II / Type V	
Electrical Characteristics		
Input	100-240AC	
Frequency	50/60Hz	
Power Factor	>0.95 / 230VAC	
Total Harmonic Distortion	<15%	
Environment		
IP Rating	IP66	
Impact Rating	IK08	
Operating Temperature	-40°C To 50°C (0°C To 50°C w Emergency Battery)	
Product Material and Mounting		
Option 1	Spigot Mount	
Option 2	Trunnion Mount	
Option 3	Stirrup Mount	
Product Material	Die Cast Aluminum	
Lens / Optics Material	Tempered Glass Lens	
Dimensions and Weights		
Product Dimensions	420*250*96	
Product Weight	5.5KG	
Packing Dimensions	501*219*78	
Gross Weight	6.5KG	
Warranty and Certifications		
Warranty	5 Year Warranty	
Certifications	SAA	

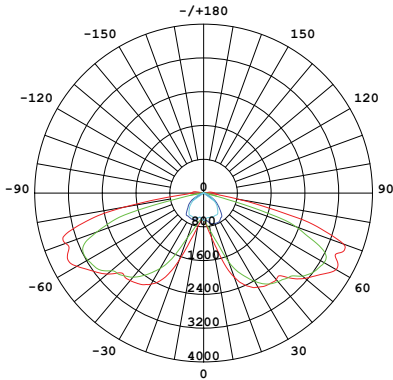
DIMENSIONS

420*250*96

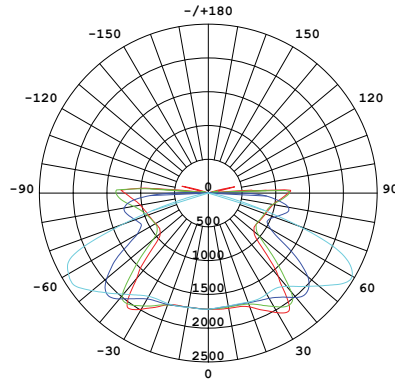


PHOTOMETRIC DIAGRAMS

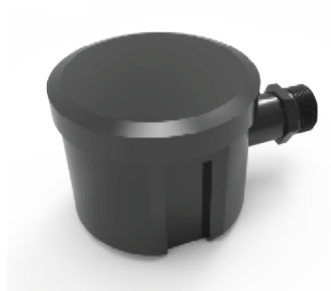
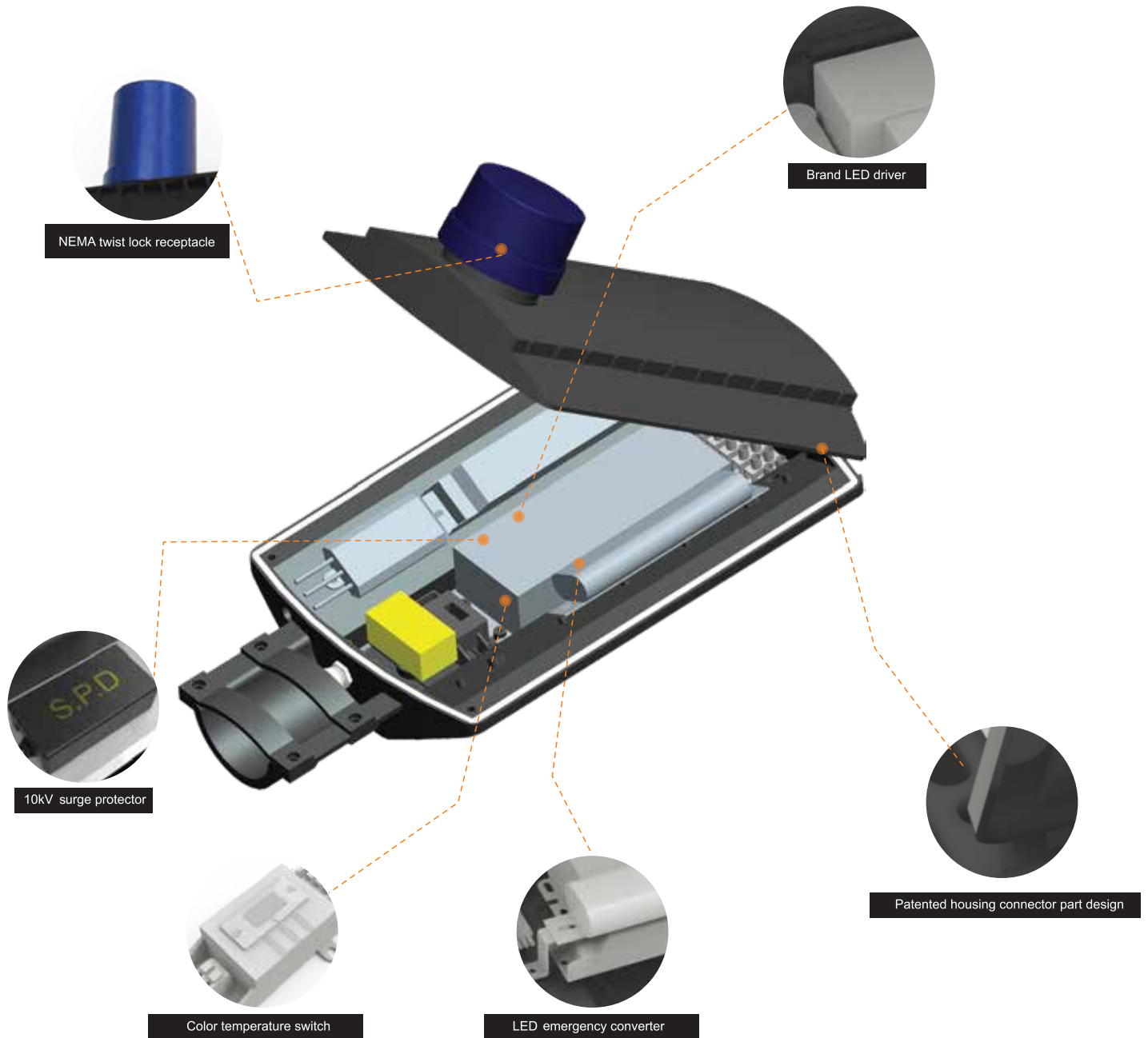
TYPE II



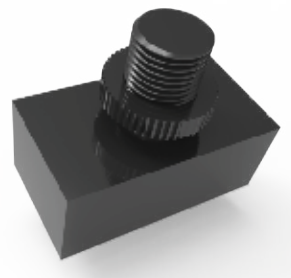
TYPE V



BULKHEAD MINING FITTING STRUCTURE CHART



Motion Sensor (Optional)



Daylight Sensor (Optional)



TUNNEL/CONVEYOR/PLANT LIGHTS



ORDERING METHODOLOGY

PLI-PHXM	XX WATTS	X CCT	XX LENS TYPE	XX FUNCTION	X CONTROLS	XX MOUNTING
	50W 70W	3 (3CCT) A (2200K AMBER TURTLE FRIENDLY) G (GREEN)	T2 (TYPE II) T5 (TYPE V)	ST (STANDARD) EM (EMERGENCY)	X (NONE) P (PHOTO SENSOR) M (MOTION SENSOR) D (DAYLIGHT SENSOR) R (RS485 DIMMER)	SP (SPIGOT) ST (STIRRUP) TM (TRUNNION MOUNT)

ACCESSORIES

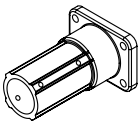
SPIGOT ADAPTOR	PLIPHXM/SP
STIRRUP MOUNT	PLIPHXM/ST
TRUNNION MOUNT	PLIPHXM/TM
PHOTO SENSOR	PLIPHXM/P
MOTION SENSOR	PLIPHXM/M
DAYLIGHT SENSOR	PLIPHXM/D
RS485 DIMMER	PLIPHXM/R
NEMA RECEPTACLE	PLIPHXM/N
VISOR	PLIPHXM/VIS



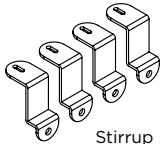
Amber Turtle Friendly Available

Green Eyewash Available

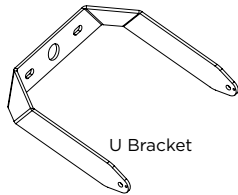
MOUNTING OPTIONS



Spigot Mount



Stirrup Mount



U Bracket



HIGH-POWER FLOODLIGHTS



**PHOENIX
PLUS**

HIGH-POWER FLOODLIGHTS

PHOENIX PLUS

The Phoenix Plus is a sleek and reliable compact floodlight with an efficiency of up to 135Lm/W. An excellent temperature range of -30°C to +50°C makes the Phoenix Plus a lighting solution suitable for a wide range of Industrial and Mining applications.



TYPICAL APPLICATIONS



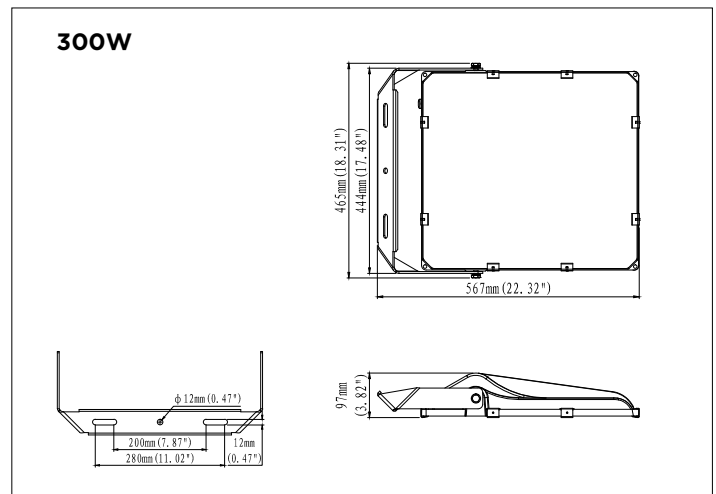
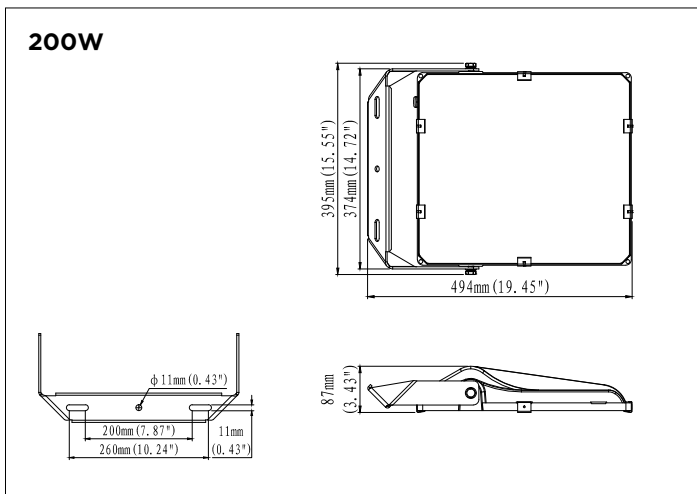
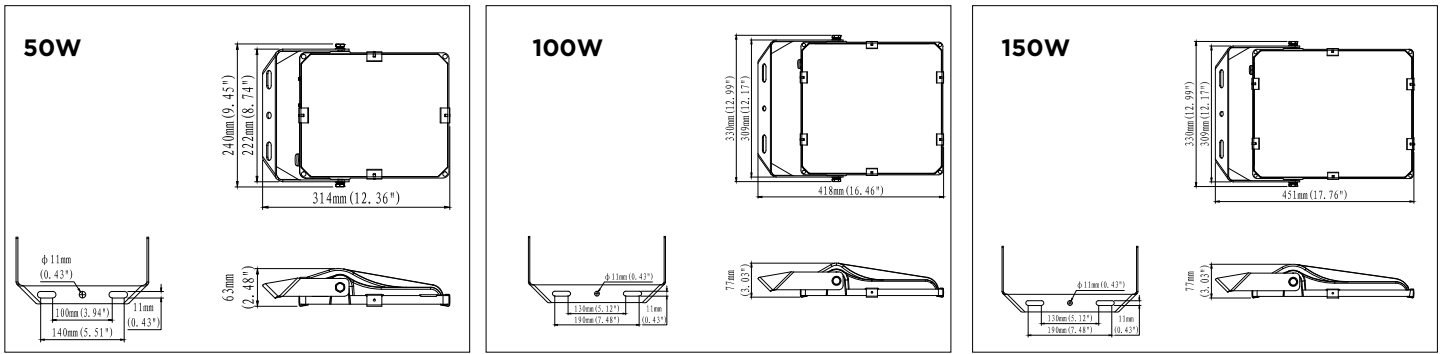
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharves & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

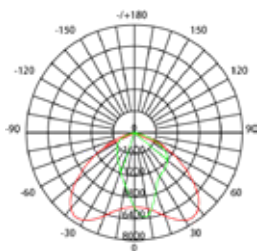
Model:	PLIPHXP50	PLIPHXP100	PLIPHXP150	PLIPHXP200	PLIPHXP300
Optical Characteristics					
Rated Wattage	50W	100W	150W	200W	300W
Lumens	6750	13500	20250	27000	40500
System Efficacy	135Lm/W				
Colour TemperatureCCT	5000K (4000K / 3000K / 2200K Amber Turtle Friendly)				
CRI (Ra)	>70				
Reported L70	>50,000 Hours				
Lens Optic Type	30° x 60° / 65° x 120° / 65° x 120° FT / 15° / 30° / 60° / 90°				
Electrical Characteristics					
Input	100-240VAC				
Frequency	50Hz				
Powerfactor	>0.92				
Total Harmonic Distortion	10%				
Environment					
IP Rating	IP66				
Impact Rating	IK08				
Operating Temperature	-30°C To 50°C				
Product Material and Mounting					
Option 1	Trunion Bracket Mount				
Option 2	Pole Spigot Adaptor (42mm, 60mm, 76mm)				
Product Material	Aluminum Alloy				
Lens / Optics Material	Toughened Glass, PC Lens				
Dimensions and Weights					
Product Dimensions	314*240*63	418*330*77	451*330*77	494*395*87	567*465*97
Product Weight	2.6KG	3.9KG	4.5KG	6.3KG	9.5KG
Packaging Dimensions	364*280*105	474*368*120	516*368*130	568*430*140	652*510*160
Gross Weight	2.9KG	4.5KG	5.2KG	7.2KG	10.6KG
Warranty and Certifications					
Warranty	5 Year Warranty				
Certifications	CE / SAA / RoHS				

HIGH-POWER FLOODLIGHTS

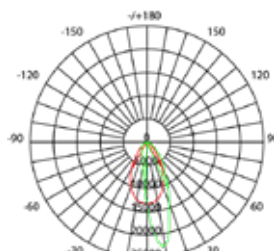
DIMENSIONS



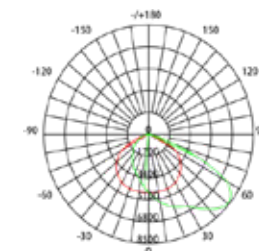
PHOTOMETRIC DIAGRAMS



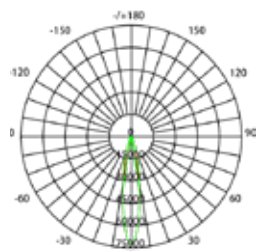
F00801/65° x 120°



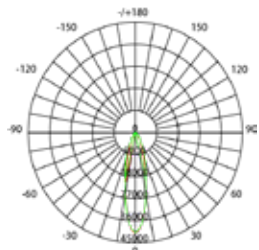
F01601/30° x 60°



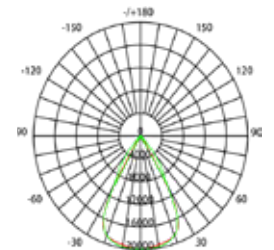
F01602/65° x 120° FT



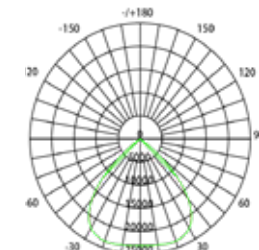
F01603/15°



F01604/30°



F01605/60°



F01606/90°

HIGH-POWER FLOODLIGHTS

ORDERING METHODOLOGY

PLI-PHXP

XXX WATTS

50W
100W
150W
200W
300W

XX CCT

50 (5000K)
40 (4000K)
30 (3000K)
20 (2200K)

XX LENS TYPE

01 (F00801)
02 (F01601)
03 (F01602)
04 (F01603)
05 (F01604)
06 (F01605)
07 (F01606)

ACCESSORIES

42MM POLE MOUNT BRACKET

60MM POLE MOUNT BRACKET

76MM POLE MOUNT BRACKET

WIRE GUARD

ANTI CORROSION/MARINE GRADE VERSION

PLIPHXP/PM42

PLIPHXP/PM60

PLIPHXP/PM76

PLIPHXP/WG

PLIPHXP/AC



Wire Guard



42mm/60mm/76mm Pole Mount Bracket



Phoenix Plus Anti Corrosion



HIGH-POWER FLOODLIGHTS



RAIDER SERIES

HIGH-POWER FLOODLIGHTS

RAIDER SERIES

The Raider Series LED floodlight is designed specifically for use in high mounting applications where large volumes of light are required. Featuring a modular design ranging from 200W - 1200W, the Raider offers unlimited adjustability for any large scale lighting application.



TYPICAL APPLICATIONS



Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

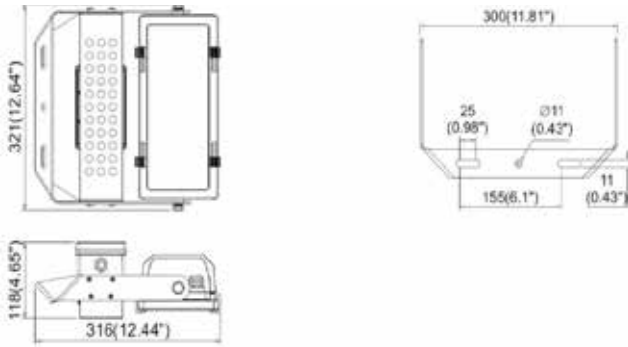
Model	PLIRDR200	PLIRDR400	PLIRDR600	PLIRDR800	PLIRDR1200
Optical Characteristics					
Rated Wattage	200W	400W	600W	800W	1200W
Lumens	27000	54000	81000	108000	162000
System Efficacy	135Lm/W				
Colour Temperature CCT	5000K (4000K / 3000K)				
CRI (Ra)	>70				
Reported L70	>50,000 Hours				
Lens Optic Type	10° / 15° / 15° x 40° / 30° / 45° / 60°				
Electrical Characteristics					
Input	100-240VAC				
Frequency	50Hz				
Powerfactor	>0.92				
Total Harmonic Distortion	10%				
Environment					
IP Rating	IP65				
Impact Rating	IK08				
Operating Temperature	-30°C To 40°C				
Product Material and Mounting					
Option 1	Trunnion Mount Bracket				
Product Material	Aluminium Alloy				
Lens / Optics Material	PMMA				
Dimensions and Weights					
Product Dimensions	321*316*118	419*340*222	529*340*226	674*385*368	674*387*473
Product Weight	4.1KG	9.4KG	15.3KG	22.0KG	27.0KG
Packaging Dimensions	360*160*375	478*270*390	598*280*400	760*620*300	760*710*300
Gross Weight	4.7KG	10.6KG	16.8KG	26.0KG	30.0KG
Warranty and Certifications					
Warranty	5 Year Warranty				
Certifications	SAA / CE / RoHS				



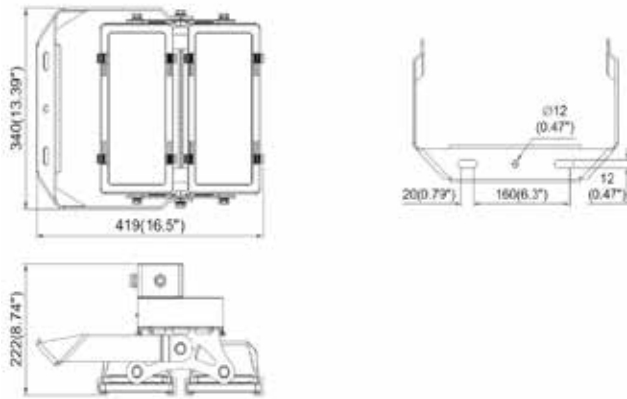
HIGH-POWER FLOODLIGHTS

DIMENSIONS

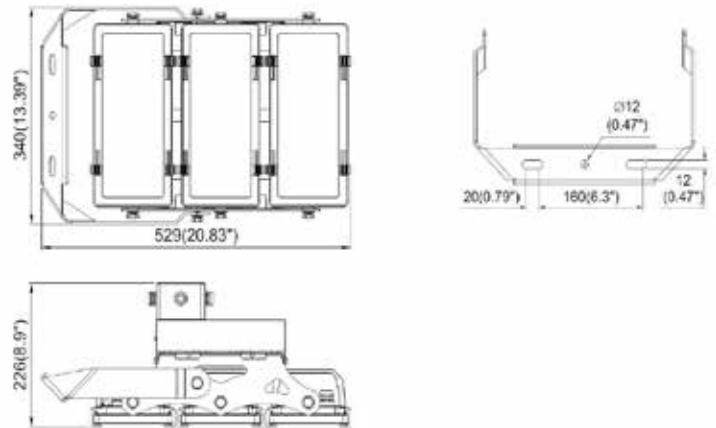
200W/321*316*118



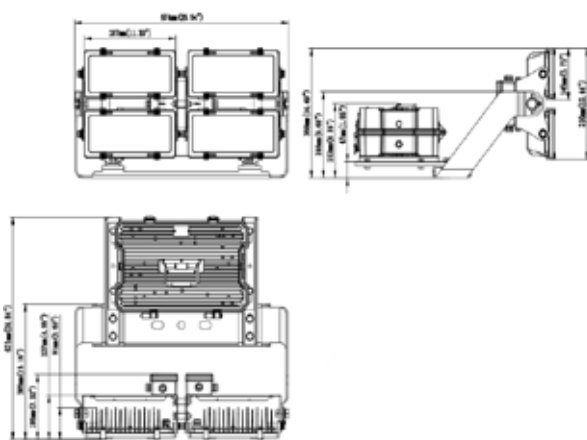
400W/419*340*222



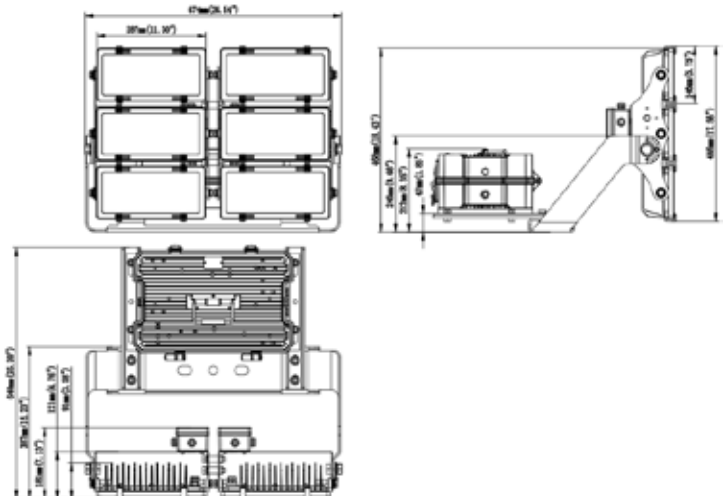
600W/529*340*226



800W/674*385*368



1200W/674*387*473



HIGH-POWER FLOODLIGHTS

ORDERING METHODOLOGY

PLI-RDR

**XXX
WATTS**

- 200W
- 400W
- 600W
- 800W
- 1200W

**XX
CCT**

- 50 (5000K)
- 40 (4000K)
- 30 (3000K)

**XX
LENS TYPE**

- 01 (F01601)
- 02 (F01602)
- 03 (F01603)
- 04 (F01604)
- 05 (F01605)
- 06 (F01606)

ACCESSORIES

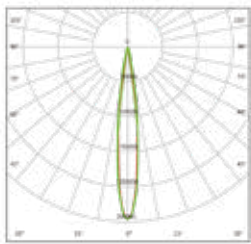
TRUNNION MOUNT BRACKET
VISOR

PLIRDR/TM
PLIRDR/VIS

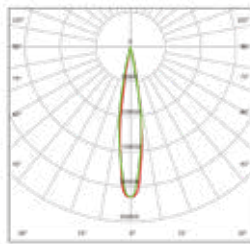


Optional Visor

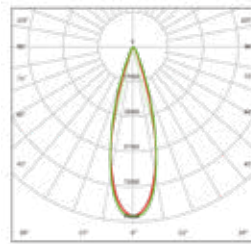
PHOTOMETRIC DIAGRAMS



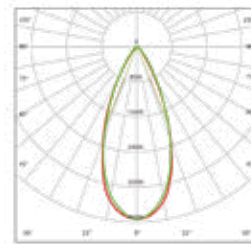
F06001/10°



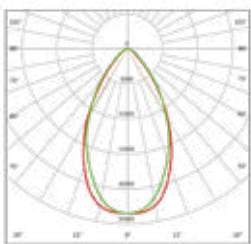
F06002/15°



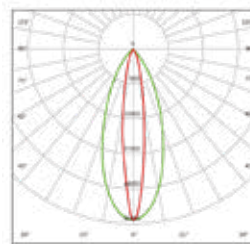
F06003/30°



F06005/45°



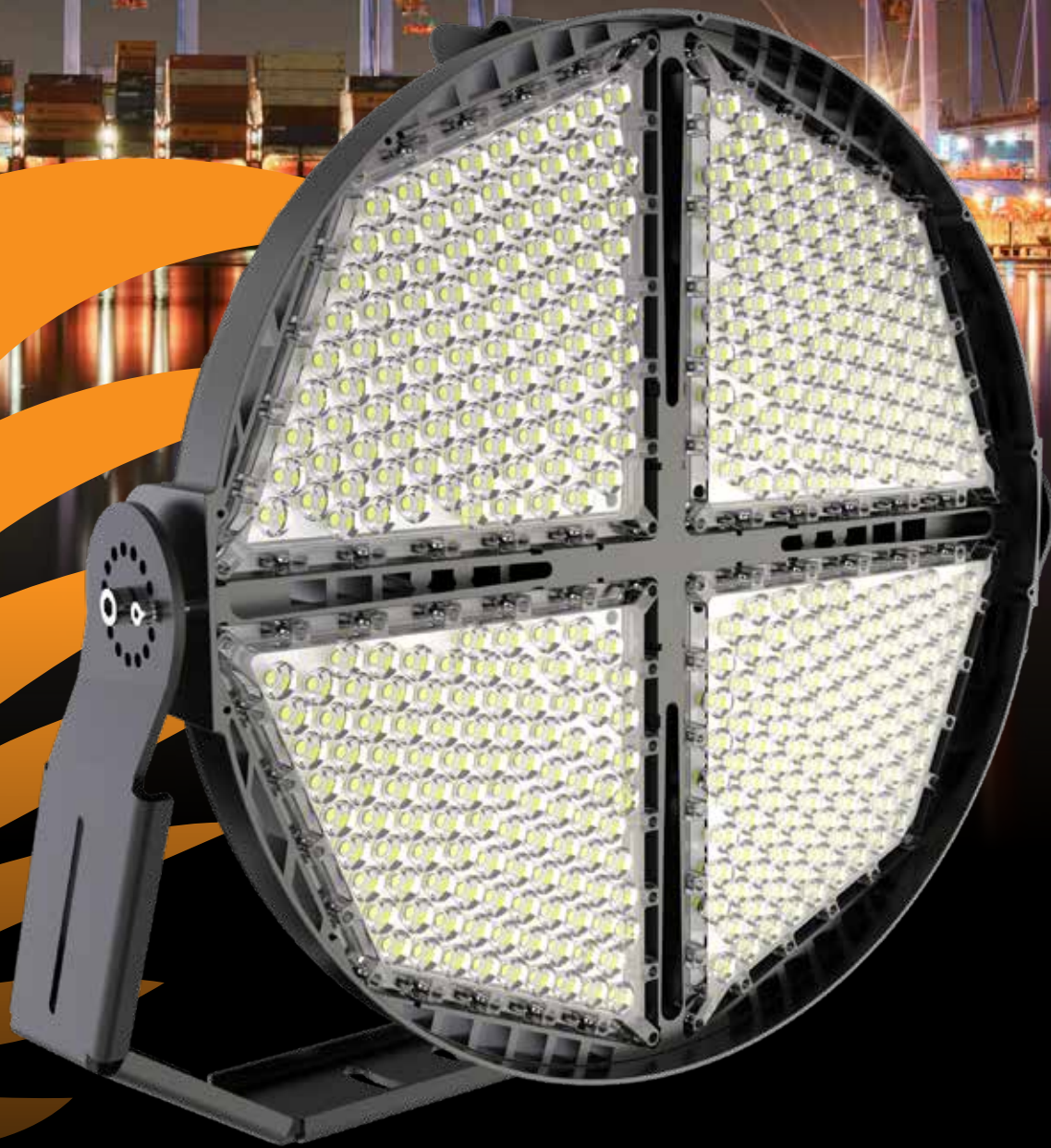
F06006/60°



F06004/15° x 40°



HIGH-POWER FLOODLIGHTS



HAWK

HIGH-POWER FLOODLIGHTS



HAWK

The Hawk is a high powered LED floodlight designed for Mining and Industrial applications. It features a superior high output and offers a unique optical design that virtually eliminates glare with minimal impact on performance.

TYPICAL APPLICATIONS

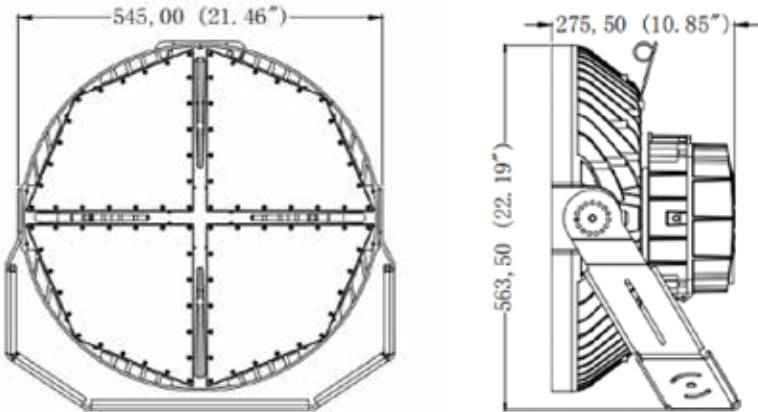


MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharves & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

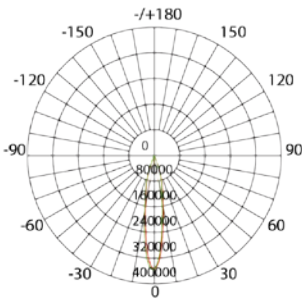
Model:	PLIHWK750	PLIHWK960
Optical Characteristics		
Rated Wattage	750W	960W
Lumens	108750	129600
System Efficacy	145Lm/W	135Lm/W
Colour Temperature CCT	5700K (5000K / 4000K / 3000K)	
CRI (Ra)	>70 (>80 / >90 Optional)	
Reported L70	>50,000 Hours*	
Lens Optic Type	15° / 30° / 60°	
Electrical Characteristics		
Input	100-277V (347/480V Optional)	
Frequency	50Hz	
Powerfactor	>0.96	
Total Harmonic Distortion	<20%	
Environment		
IP Rating	IP66	
Impact Rating	IK10	
Operating Temperature	-40°C To 50°C	
Product Material and Mounting		
Option 1	Trunnion Mount Bracket	
Product Material	Powder-Coated Die Cast Aluminium	
Lens / Optics Material	Polycarbonate Lens	
Dimensions and Weights		
Product Dimensions	545*275.5*563.5	
Product Weight	27.0KG	
Packaging Dimensions	800*740*420	
Gross Weight	29.0KG	
Warranty and Certifications		
Warranty	5 Year Warranty	
Certifications	CE / RoHS	

DIMENSIONS



Integral Driver

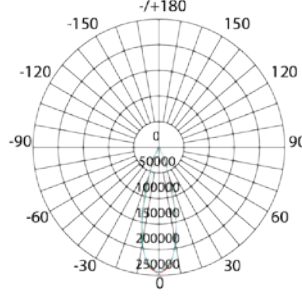
PHOTOMETRIC DIAGRAMS



AVERAGE BEAM ANGLE(50%):18.2DEG
UNIT:cd

C0/180 Ic:353054 C90/270 Ic:354895
9.2,9.1 10.0,8.2

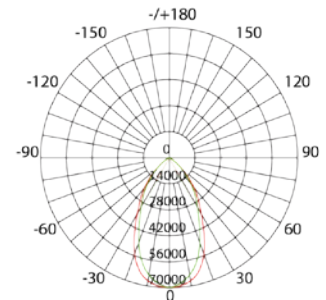
15°



AVERAGE BEAM ANGLE(50%):29.8 DEG
UNIT:cd

C0/180,29.5deg C60/240,29.9deg
C30/210,29.6deg C90/270,30.1deg

30°



AVERAGE BEAM ANGLE(50%):57.4 DEG
UNIT:cd

C0/180 Ic:69654 C90/270 Ic:69607
30.1,30.1 27.3,27.3

60°

ORDERING METHODOLOGY

PLI-HWK

XXX
WATTS

750W
960W

XX
CCT

57 (5700K)
50 (5000K)
40 (4000K)
30 (3000K)

XX
BEAM ANGLE

01 (15°)
02 (30°)
03 (60°)

XX
DRIVER

ID (INTEGRATED DRIVER)
RD (REMOTE DRIVER)

ACCESSORIES

- TRUNNION MOUNT BRACKET
- VISOR
- PE CELL
- REMOTE ENCLOSURE SS FLANGE MOUNT
- REMOTE MOUNTING PAN
- REMOTE STAND ALONE SS FLOOR MOUNT ENCLOSURE

- PLIHWK/TM
- PLIHWK/VIS
- PLIHWK/PE
- PLIHWK/R1
- PLIHWK/R2
- PLIHWK/R3



Optional Visor

HIGH-POWER FLOODLIGHTS



HIGH-POWER FLOODLIGHTS



HAWK JNR

HIGH-POWER FLOODLIGHTS

HAWK JNR

The Hawk Jnr LED floodlight is designed to deliver a superior high output and also features a unique optical design that virtually eliminates glare with minimal impact on performance. It is available in a variety of flood distributions for lighting applications such as Large Area Lighting and Mining applications.



TYPICAL APPLICATIONS



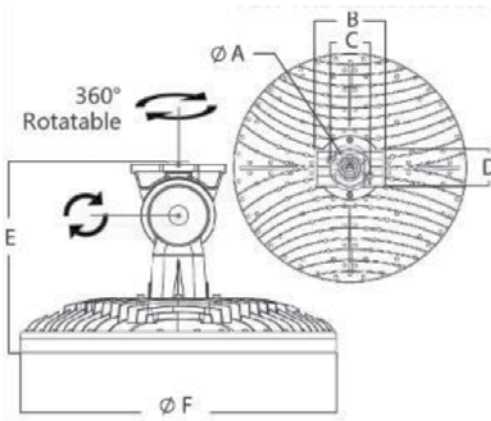
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

Model:	PLIHWKJ315	PLIHWKJ460	PLIHWKJ580	PLIHWKJ720
Optical Characteristics				
Rated Wattage	315W	460W	580W	720W
Lumens	51975	75900	95700	118800
System Efficacy	165Lm/W			
Colour Temperature CCT	5700K (5000K / 4000K / 3000K)			
CRI (Ra)	>70 (>80 Optional)			
Reported L70	>50,000 Hours			
Lens Optic Type	15° / 30° / 60°			
Electrical Characteristics				
Input	100-270VAC (200-480V Optional)			
Frequency	50Hz			
Powerfactor	>0.96			
Total Harmonic Distortion	<20%			
Environment				
IP Rating	IP66			
Impact Rating	IK10			
Operating Temperature	- 40°C To 50°C			
Product Material and Mounting				
Option 1	Trunnion Mount Bracket			
Option 2	Rotatable Bracket			
Product Material	Powder-Coated Die Cast Aluminum (Black)			
Lens / Optics Material	Polycarbonate Lens			
Dimensions and Weights				
Product Dimensions	468*468*343		550*550*336	
Product Weight	14.0KG		18.0KG	
Packaging Dimensions	540*540*415		620*620*405	
Gross Weight	15.9KG		21.6KG	
Warranty and Certifications				
Warranty	5 Year Warranty			
Certifications	CE / RoHS			

DIMENSIONS

Rotatable Bracket 360°



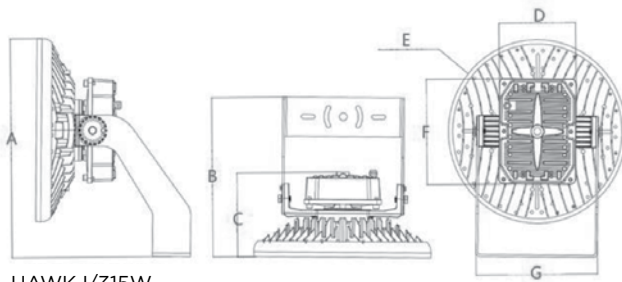
HAWKJ/315W

A: 7.3CM, **B:** 16.5CM, **C:** 9.3CM,
D: 9.0CM, **E:** 34.3CM, **F:** 46.8CM

HAWKJ/460W-720W

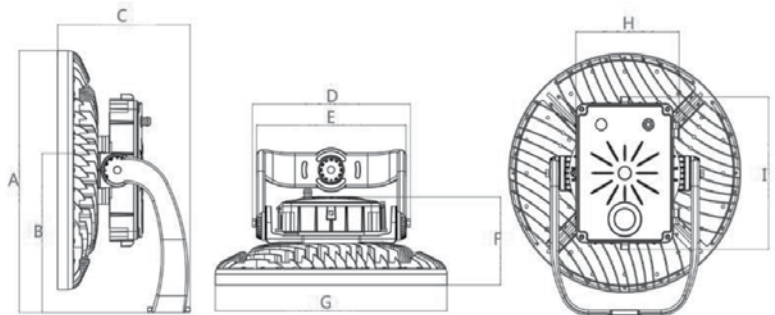
A: 7.3CM, **B:** 16.5CM, **C:** 9.3CM,
D: 9.0CM, **E:** 33.6CM, **F:** 55.0CM

Trunnion Mount Bracket



HAWKJ/315W

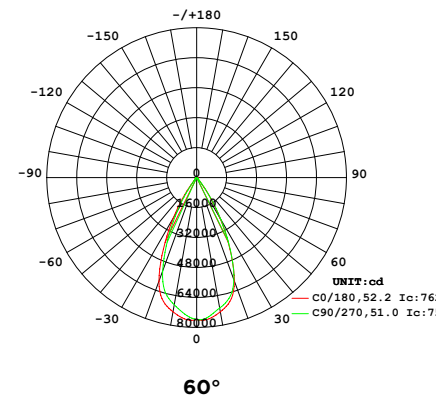
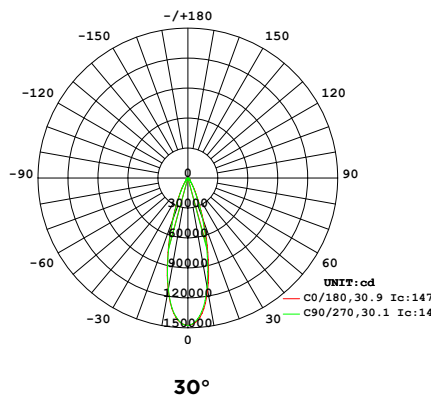
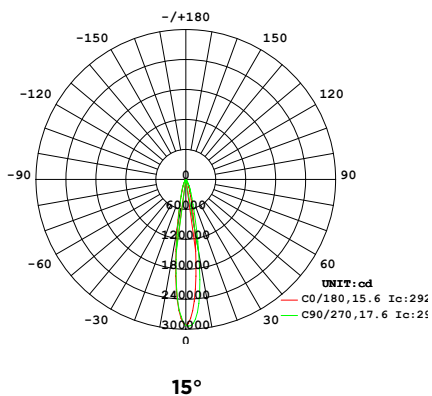
A: 55.96CM(22.0"), **B:** 40.68CM(16.0"), **C:** 21.4CM(8.4"),
D: 20.3CM(8"), **E:** 46.8CM(18.4"), **F:** 26.8CM(10.5"),
G: 32.01CM(12.6")



HAWKJ/460W-720W

A: 60.2CM(23.7"), **B:** 36.6CM(14.4"), **C:** 31.48CM(12.4"),
D: 37.5CM(14.7"), **E:** 35.4CM(13.9"), **F:** 20.25CM(8.0"),
G: 55.0CM(16") , **H:** 24.5CM(9.6") , **I:** 35.1CM(13.8")

PHOTOMETRIC DIAGRAMS



HIGH-POWER FLOODLIGHTS

ORDERING METHODOLOGY

PLI-HWKJ

**XXX
WATTS**

315W
460W
580W
720W

**XX
CCT**

57 (5700K)
50 (5000K)
40 (4000K)
30 (3000K)

**XX
BEAM ANGLE**

01 (15°)
02 (30°)
03 (60°)

ACCESSORIES

TRUNNION MOUNT BRACKET
360° ROTATABLE BRACKET
VISOR

PLIHWKJ/TM
PLIHWKJ/RB
PLIHWKJ/VIS



HIGH-POWER FLOODLIGHTS



PHOENIX CHALLENGER

HIGH-POWER FLOODLIGHTS

PHOENIX CHALLENGER

The Phoenix Challenger is a stainless-steel Floodlight/Bulkhead suitable for a wide range of applications. It features a die-cast stainless steel body that can withstand temperatures from -40°C to 50°C standard and 0°C to 50°C in emergency mode. It is designed with 3CCT (5000K/4000K/3000K) and 3 modes of mounting (Spigot, Stirrup & U Bracket). The Phoenix Challenger is a superior fitting that is designed for dusty, hot and dry Australian mining conditions.



TYPICAL APPLICATIONS



Coal & Metalliferous Mine Process Plants, Quarries, Campsite Area Lighting, General Area Lighting Car Parks, Conveyors, Pedestrian Access Road Ways, Stacker/Reclaimers, Stairwells, Tunnels, Walkways, Bulkheads.

SPECIFICATIONS

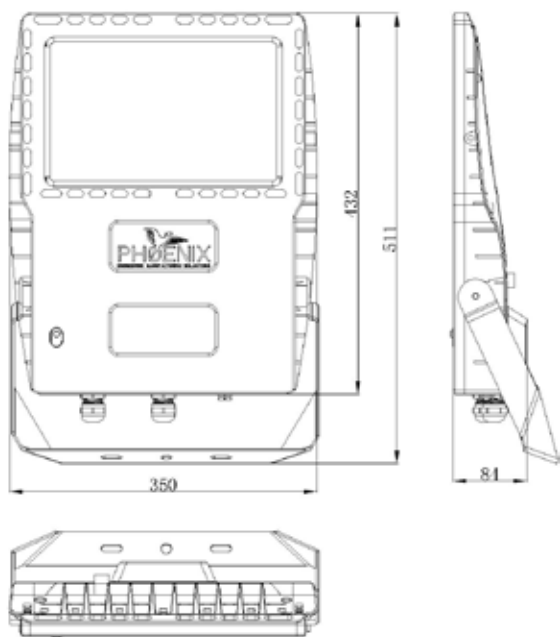
Model No:	PLICHA50	PLICHA100	PLICHA150
Optical Characteristics			
Rated Wattage	50W	100W	150W
Lumens	6750	13500	20250
System Efficacy	135Lm/W		
Colour Temperature CCT	3CCT		
CRI (Ra)	>70		
Reported L70	>50,000 Hours		
Lens Optic Type	155° x 60°		
Electrical Characteristics			
Input	90-305VAC		
Frequency	50Hz		
Power Factor	>0.95/230VAC		
Total Harmonic Distortion	<15%		
Environment			
IP Rating	IP66		
Impact Rating	IK08		
Operating Temperature	-40°C To 50°C (0°C To 50°C w Emergency Battery)		
Product Material and Mounting			
Option 1	Spigot Mount (For OD 27-38MM Pipe)		
Option 2	U Bracket (For Square Pole)		
Option 3	Stirrup Mount (For Ceiling/Wall)		
Product Material	Die-cast 316 Stainless Steel		
Lens / Optics Material	PC Lens		
Dimensions and Weights			
Product Dimensions	432*350*84		
Product Weight	19.0KG		
Packing Dimensions	550*460*120		
Gross Weight	20.0KG		
Warranty and Certifications			
Warranty	5 Year Warranty		
Certifications	SAA		

SAA / Zone 1, 2, 21, 22 Pending Approval

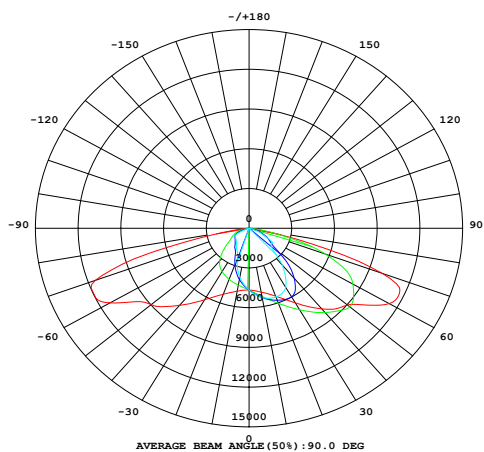


HIGH-POWER FLOODLIGHTS

DIMENSIONS



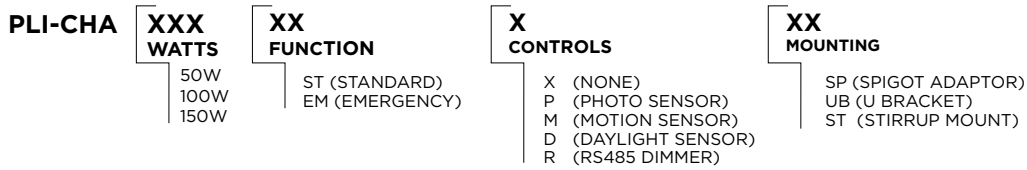
PHOTOMETRIC DIAGRAMS



155° x 60°

HIGH-POWER FLOODLIGHTS

ORDERING METHODOLOGY



ACCESSORIES

SPIGOT ADAPTOR	PLICHA/SP
U BRACKET	PLICHA/UB
STIRRUP MOUNT	PLICHA/SM
PHOTO SENSOR	PLICHA/P
MOTION SENSOR	PLICHA/M
DAYLIGHT SENSOR	PLICHA/D
RS485 DIMMER	PLICHA/R
NEMA RECEPTACLE	PLICHA/NEMA

MOUNTING OPTIONS



Spigot Mount



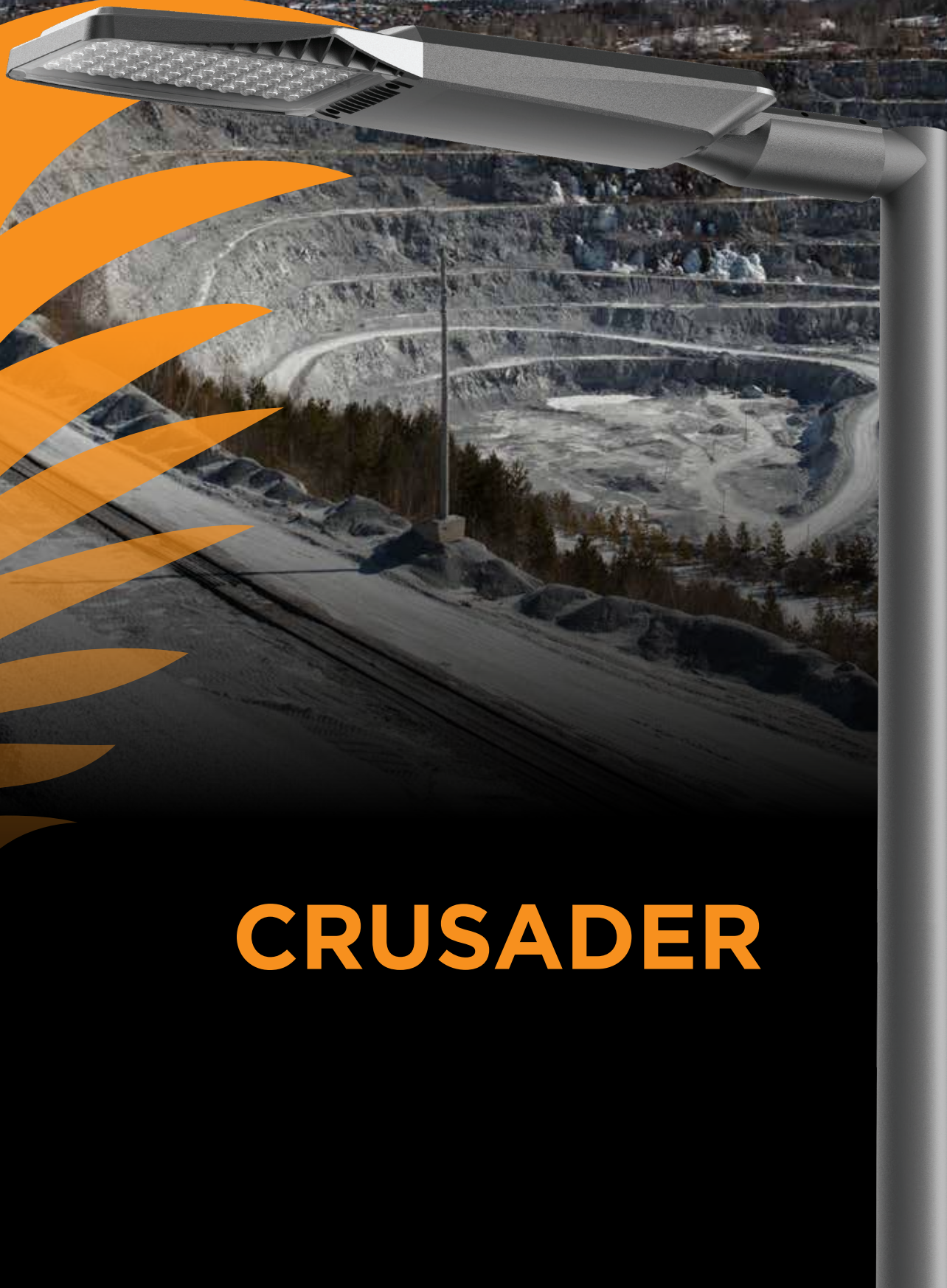
U Bracket



Stirrup Mount



AREA LIGHTING



CRUSADER

CRUSADER

The Crusader is a uniquely designed area light and represents the trend of municipal and roadway lighting. Compatible with the latest version of Zigbee Smart Control, the Crusader is an intelligent lighting solution fit for a wide range of applications.



TYPICAL APPLICATIONS



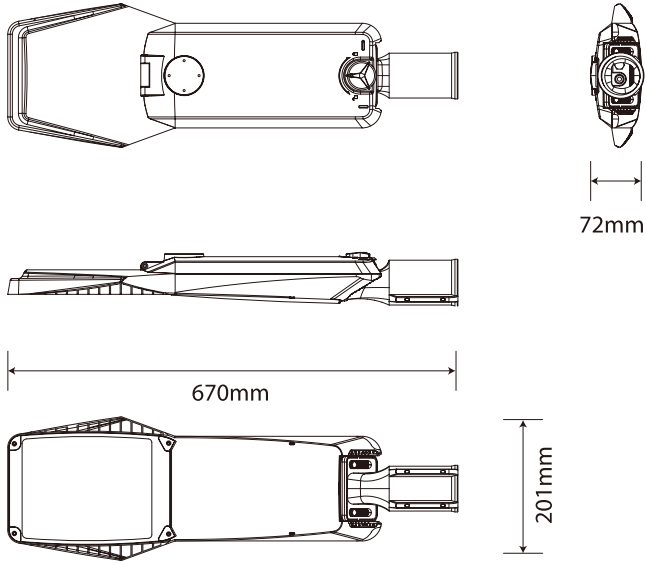
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharves & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals

SPECIFICATIONS

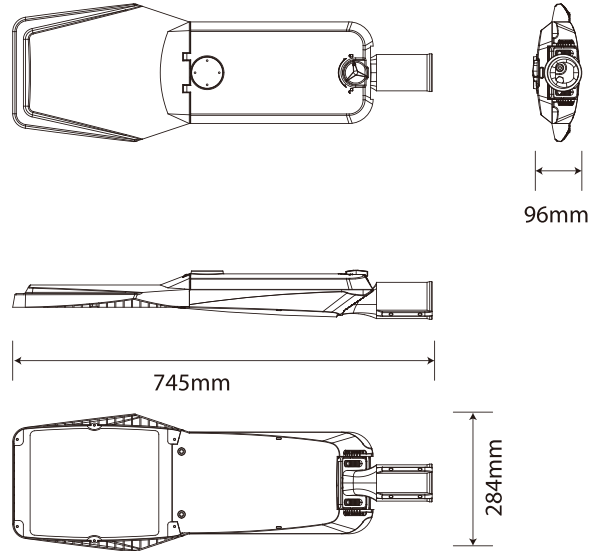
Model	PLICRU70	PLICRU80	PLICRU90	PLICRU100	PLICRU110	PLICRU120	PLICRU130	PLICRU140	PLICRU150
Optical Characteristics									
Rated Wattage	70W	80W	90W	100W	110W	120W	130W	140W	150W
Lumens	9800	11200	12600	14000	15400	16800	18200	19600	21000
System Efficacy	140Lm/W								
Colour Temperature CCT	6500K / 5700K / 5000K / 4000K / 3000K								
CRI (Ra)	>70 (>80 Optional)								
Reported L70	>50,000 Hours								
Lens Optic Type	Type II-M / Type II-S / Type III / Type IV / Type V								
Electrical Characteristics									
Input	220-240V								
Frequency	50Hz								
Powerfactor	>0.95								
Total Harmonic Distortion	<19%								
Environment									
IP Rating	IP66								
Impact Rating	IK08								
Operating Temperature	-40°C To 50°C								
Product Material and Mounting									
Option 1	Spigot Mount 60mm								
Option 2	Spigot Mount 76mm								
Product Material	Die Casting Aluminium								
Lens / Optics Material	Tempered Glass								
Dimensions and Weights									
Product Dimensions	670*201*72				745*284*96				
Product Weight	6.5KG				9.1KG				
Packaging Dimensions	828*285*285 (Ctn 2)				942*320*160 (Ctn 1)				
Gross Weight	15.5KG				11.2KG				
Warranty and Certifications									
Warranty	5 Year Warranty								
Certifications	CE / SAA								

DIMENSIONS

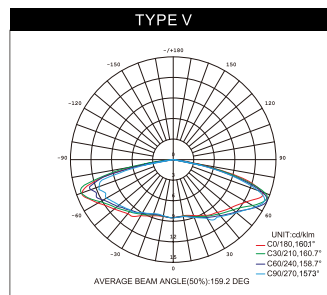
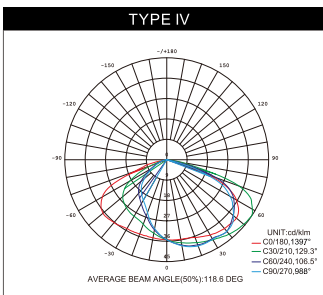
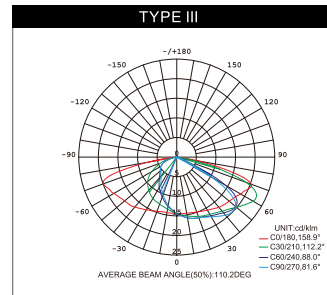
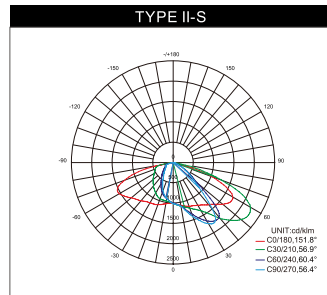
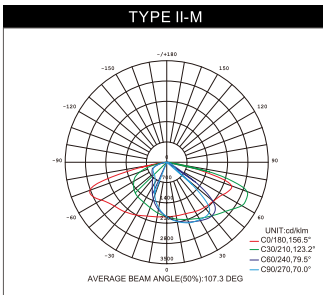
70W, 80W, 90W & 100W



110W, 120W, 130W, 140W & 150W



PHOTOMETRIC DIAGRAMS



ORDERING METHODOLOGY

PLI-CRU	XXX WATTS	XX CCT	XXX LENS TYPE
	70W 80W 90W 100W 110W 120W 130W 140W 150W	65 (6500K) 57 (5700K) 50 (5000K) 40 (4000K) 30 (3000K)	T2M (TYPE II-M) T2S (TYPE II-S) T3 (TYPE III) T4 (TYPE IV) T5 (TYPE V)

ACCESSORIES

- | | |
|------------------------------|-------------|
| SPIGOT MOUNT BRACKET 60MM | PLICRU/SP60 |
| SPIGOT MOUNT BRACKET 76MM | PLICRU/SP76 |
| PE CELL | PLICRU/PE |
| ZIGBEE LIGHT CONTROLLER | PLICRU/ZLC |
| ZIGBEE INTEGRATED CONTROLLER | PLICRU/ZIC |
| ZIGBEE SOFTWARE | PLICRU/ZSW |



AREA LIGHTING



FLIGHT SERIES

AREA LIGHTING

FLIGHT SERIES

The Flight Series is a LED Area Light designed for a range of different applications. It features an anti corrosion coating and a housing made of die casted aluminium alloy to ensure greater heat dissipation and also utilises external fins. Along with these features, it is designed to provide a wider, smoother and more uniform light output.



TYPICAL APPLICATIONS

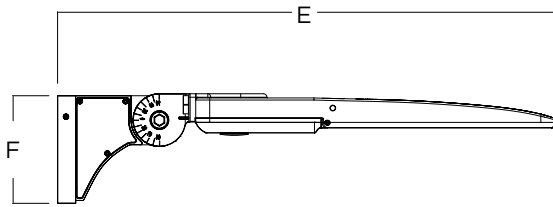
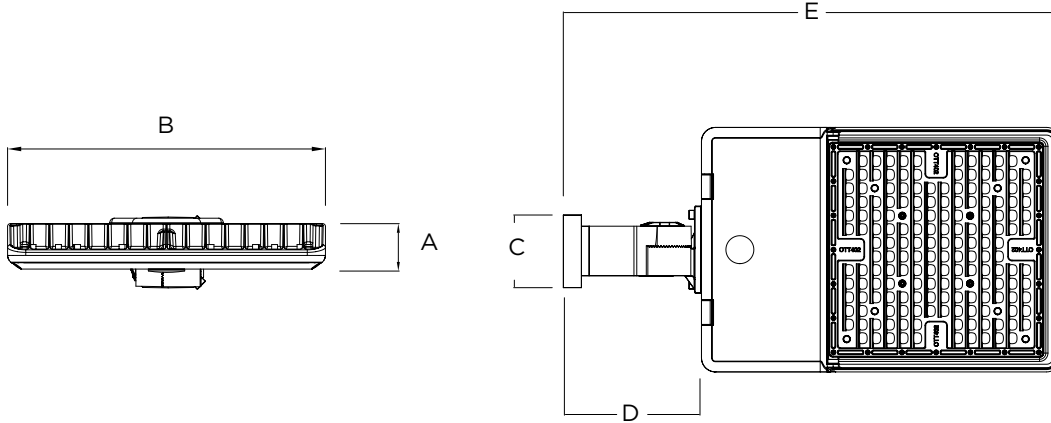


Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing, Ports & Wharves, Airports, Car Parks, General Area Lighting, Container Terminals, Airports

SPECIFICATIONS

Model:	PLIFLI75	PLIFLI115	PLIFLI145	PLIFLI180	PLIFLI200	PLIFLI230	PLIFLI300	PLIFLI420
Optical Characteristics								
Rated Wattage	75W	115W	145W	180W	200W	230W	300W	420W
Lumens	13125	18745	24795	30960	33200	36340	43500	60060
System Efficacy	175Lm/W	163Lm/W	171Lm/W	172Lm/W	166Lm/W	158Lm/W	145Lm/W	143Lm/W
Colour Temperature CCT	5700K (5000K / 4000K / 3000K)							
CRI (Ra)	>70							
Reported L70	>50,000 Hours							
Lens Optic Type	Type III / Type IV / Type V							
Electrical Characteristics								
Input	Input 100-277V (347-480V Optional)							
Frequency	50Hz							
Powerfactor	>0.96							
Total Harmonic Distortion	<20%							
Environment								
IP Rating	IP65							
Impact Rating	IK10							
Operating Temperature	-40°C To 50°C							
Product Material and Mounting								
Option 1	Spigot Mount (Type A, B, C, D, E - Refer To Dimensions)							
Product Material	Aluminium Alloy							
Lens / Optics Material	PC Lens							
Dimensions and Weights								
Product Dimensions	585*270*56			679*350*56			750*360*75	
Product Weight	4.8KG			5.5KG			10.5KG	
Packaging Dimensions	690*370*180			760*410*180			810*430*180	
Gross Weight	6.6KG			8.5KG			12.1KG	
Warranty and Certifications								
Warranty	5 Year Warranty							
Certifications	SAA / CE / RoHS							

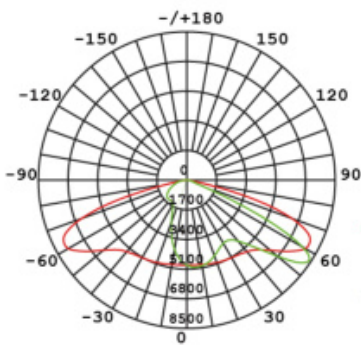
DIMENSIONS



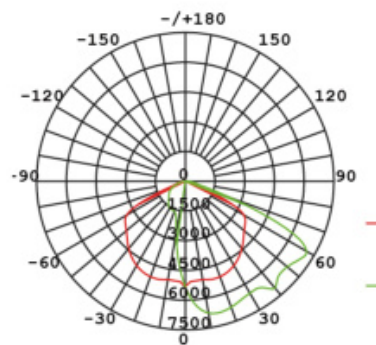
A	B	C	D	E	F
75W/115W/145W					
56MM	270MM	77MM	165MM	585MM	150MM
180W/200W/230W					
56MM	350MM	77MM	165MM	679MM	150MM
300W/420W					
75MM	360MM	77MM	165MM	750MM	150MM

PHOTOMETRIC DIAGRAMS

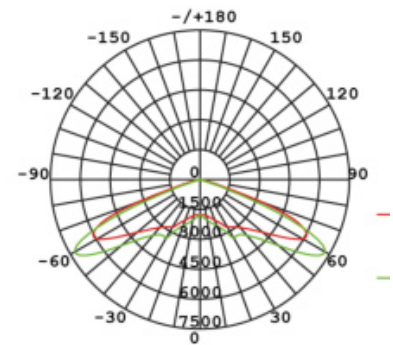
TYPE III



TYPE IV



TYPE V



ACCESSORIES

- SLIP FITTER
- ADJUSTABLE ARM MOUNT
- TRUNNION MOUNT U BRACKET TO SUIT 75W-230W MODELS
- TRUNNION MOUNT U BRACKET TO SUIT 300W-420W MODELS
- DIRECT ARM MOUNT
- REDUCER TO SUIT BRACKET A

- PLIFLI-A
- PLIFLI-B
- PLIFLI-C
- PLIFLI-D
- PLIFLI-E
- PLIFLI-R

AREA LIGHTING

ORDERING METHODOLOGY

PLI-FLI	XXX WATTS	XX CCT	XX LENS TYPE	X CONTROLS
	75W 115W 145W 180W 200W 230W 300W 420W	57 (5700K) 50 (5000K) 40 (4000K) 30 (3000K)	T5 (TYPE V) T4 (TYPE IV) T3 (TYPE III)	X (NONE) P (PE CELL)

ACCESSORIES

ADJUSTABLE SPIGOT MOUNT PLIFLI/SP
PE CELL PLIFLI/PE



LED BATTENS WEATHERPROOF



EAGLE

LED BATTENS WEATHERPROOF

EAGLE

The polyester powder-coated aluminium enclosure combined with a high-impact polycarbonate diffuser makes the Eagle a good fit for corrosive atmospheres or where the risk of mechanical damage is possible. The IP66 rating of the Eagle allows it to be used in areas where cleanliness is of importance as it can withstand high-pressure cleaning and resistance from chemical cleaning agents. The diffuser is secured with stainless steel cap head screws making it suitable for areas where vandal resistance is required.



TYPICAL APPLICATIONS



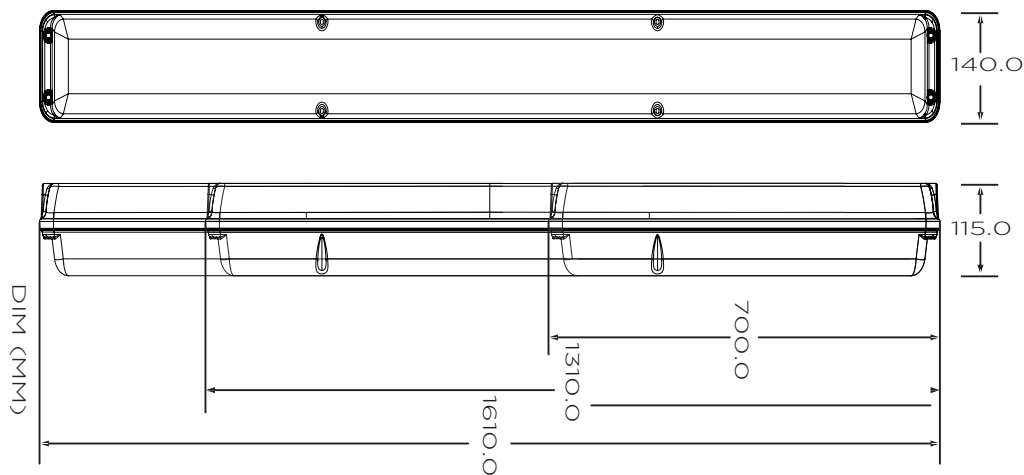
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

SPECIFICATIONS

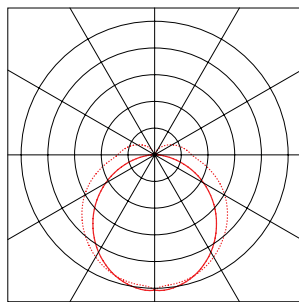
Model:	PLIEGL24	PLIEGL48	PLIEGL72
Optical Characteristics			
Rated Wattage	24W	48W	72W
Lumens	2568	5088	8208
System Efficacy	107Lm/W	106Lm/W	114Lm/W
Colour Temperature CCT	5000K (4000K / 3000K)		
CRI (Ra)	>80		
Reported L70	>50,000 Hours		
Lens Optic Type	120°		
Electrical Characteristics			
Input	90-240VAC (DC Available on Request)		
Frequency	50Hz		
Powerfactor	>0.95		
Total Harmonic Distortion	10%		
Environment			
IP Rating	IP66		
Impact Rating	IK08		
Operating Temperature	-30°C To 55°C		
Product Material and Mounting			
Option 1	Ceiling Mount		
Option 2	Wall Mount		
Option 3	Angled Wall Mount		
Option 4	Surface Mount		
Option 5	Pipe Clamp Mount 40mm or 50mm		
Product Material	Die-casting Aluminum		
Lens / Optics Material	Frosted PC Lens		
Dimensions and Weights			
Product Dimensions	700*140*115	1310*140*115	1610*140*115
Product Weight	2KG	3.5KG	4KG
Packaging Dimensions	725*300*390	1335*300*390	1665*300*270
Gross Weight	3.2KG	4.7 KG	5.4KG
Warranty and Certifications			
Warranty	5 Year Warranty		
Certifications	SAA / CE / RoHS		

LED BATTENS WEATHERPROOF

DIMENSIONS

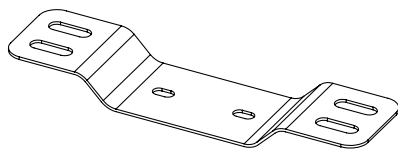


PHOTOMETRIC DIAGRAMS

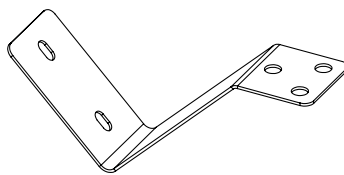


120°

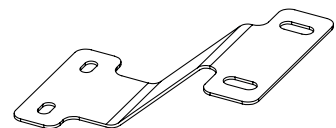
ACCESSORIES



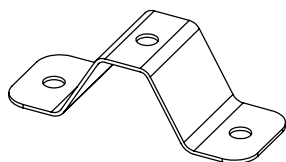
Ceiling Mount Bracket



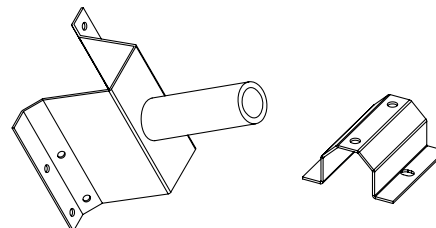
Angled Wall Mount Bracket



Surface Mount Bracket



Pipe Clamp Kit
(40mm OD Pipe)
(50mm OD Pipe)



Wall Mount Bracket Kit

LED BATTENS WEATHERPROOF

ORDERING METHODOLOGY

PLI-EGL	XX WATTS	XX CCT	XX FUNCTION
	24W 48W 72W	50 (5000K) 40 (4000K) 30 (3000K)	ST (STANDARD) EM (EMERGENCY)

ACCESSORIES

CEILING MOUNT BRACKET	PLIEGL/CM
WALL MOUNT BRACKET	PLIEGL/WM
ANGLED WALL MOUNT BRACKET	PLIEGL/AM
SURFACE MOUNT BRACKET	PLIEGL/SM
PIPE CLAMP KIT 40MM OD POLE	PLIEGL/PCL40
PIPE CLAMP KIT 50MM OD POLE	PLIEGL/PCL50



LED BATTENS WEATHERPROOF



FALCON

LED BATTENS WEATHERPROOF

FALCON

The Falcon is a general purpose LED weatherproof luminaire comprising a high impact UV stabilized diffuser. It features a pour in place polyurethane gasket in conjunction with a secure and screw lockable stainless steel latch system making the Falcon a hardy and durable luminaire.



TYPICAL APPLICATIONS



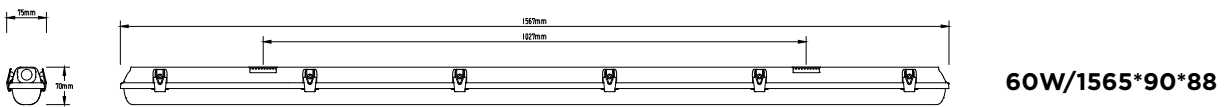
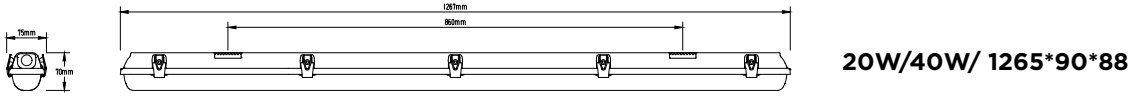
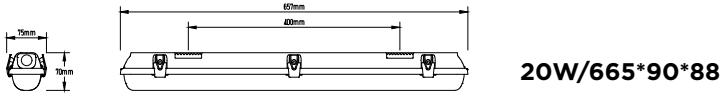
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

SPECIFICATIONS

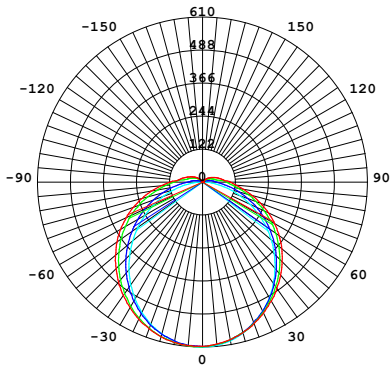
Model:	PLIFAL20	PLIFAL20	PLIFAL40	PLIFAL60
Rated Wattage	20W	20W	40W	60W
Lumens	2000	2000	4000	6000
System Efficacy	100lm/W			
Colour Temperature CCT	5000K (4000K / 3000K)			
CRI (Ra)	>80			
Reported L70	>50,000 Hours			
Lens Optic Type	120°			
Electrical Characteristics				
Input	220-240VAC			
Frequency	50Hz			
Powerfactor	>0.90			
Total Harmonic Distortion	<20%			
Environment				
IP Rating	IP65			
Impact Rating	IK08			
Operating Temperature	-20°C To 40°C			
Product Material and Mounting				
Option 1	Surface Mount Clips			
Product Material	PC Body, Steel Gear Tray			
Lens / Optics Material	PC Lens			
Dimensions and Weights				
Product Dimensions	665*90*88	1265*90*88		1565*90*88
Product Weight	1.1KG	2.0KG	2.5KG	3.2KG
Packaging Dimensions	690*240*310	1315*240*310		1315*240*310
Gross Weight (Ctn 10)	13.2KG	24.0KG	30.0KG	38.4KG
Warranty and Certifications				
Warranty	5 Year Warranty			
Certifications	SAA / CE / RoHS			

LED BATTENS WEATHERPROOF

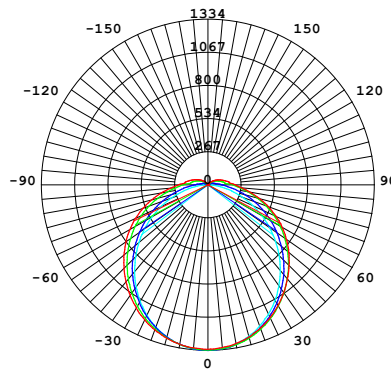
DIMENSIONS



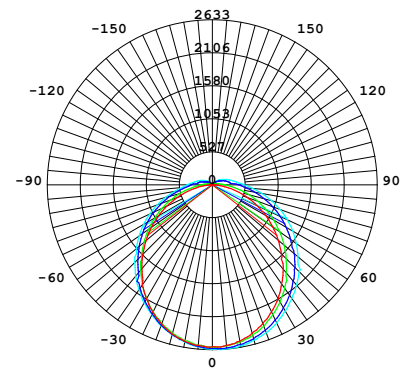
PHOTOMETRIC DIAGRAMS



20W



40W



60W

LED BATTENS WEATHERPROOF

ORDERING METHODOLOGY

PLI-FAL

XX WATTS

20W
40W
60W

XX CCT

50 (5000K)
40 (4000K)
30 (3000K)

XX DIMENSIONS

01 (20W/665*90*88)
02 (20W/1265*90*88)

XX FUNCTION

ST (STANDARD)
EM (EMERGENCY)

ACCESSORIES

SURFACE MOUNT CLIPS
DALI CONTROL
DIMMABLE 1-10V DRIVER
MOTION SENSOR

PLIFAL/SM
PLIFAL/DA
PLIFAL/D
PLIFAL/M



LED BATTENS WEATHERPROOF



KESTREL

LED BATTENS WEATHERPROOF

KESTREL

The Kestrel is a high performance, corrosion resistant, IP65 waterproof batten. With GRP housing the Kestrel is designed to withstand aggressive atmospheres laden with salts, acids, and mineral oils. The Kestrel is suitable for locations that are exposed to liquids and gases that contain potentially corrosive chemicals.



TYPICAL APPLICATIONS



Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

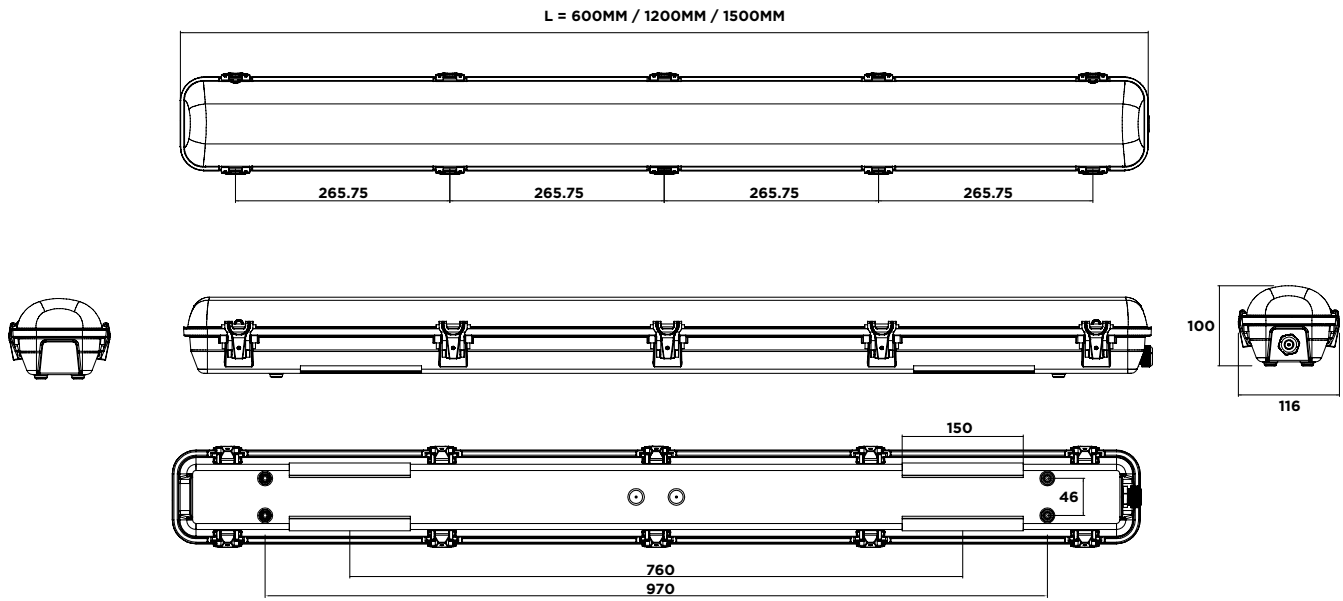
SPECIFICATIONS

Model No.	PLIKES15	PLIKES24	PLIKES20	PLIKES36	PLIKES50	PLIKES30	PLIKES50	PLIKES65
Optical Characteristics								
Rated Wattage	15W	24W	20W	36W	50W	30W	50W	65W
Lumens	1950	3120	2600	4680	6500	3900	6500	8450
System Efficacy	130Lm/W							
Colour Temperature CCT	5000K (6500K / 5700K / 4000K / 3000K)							
CRI (Ra)	>80							
Reported L70	>50,000 Hours							
Lens Optic Type	120°							
Electrical Characteristics								
Input	220-240V							
Frequency	50/60Hz							
Powerfactor	>0.95							
GWT	850°C							
Environment								
IP Rating	IP65							
Impact Rating	IK08							
Operating Temperature	-15°C To 35°C							
Product Material and Mounting								
Option 1	Bracket Mount							
Option 2	Suspension Chain							
Product Material	GRP Housing (Glass Reinforced Plastic)							
Lens / Optics Material	Corrosion Resistant PMMA Diffuser							
Dimensions and Weights								
Product Dimensions	600*116*100		1200*116*100			1500*116*100		
Product Weight	1.5KG		3.0KG			4.0KG		
Packaging Dimensions	630*268*232		1230*268*232			1530*268*232		
Gross Weight	2.0KG		3.5KG			4.5KG		
Warranty and Certifications								
Warranty	5 Year Warranty							
Certifications	SAA / CE / RoHS							

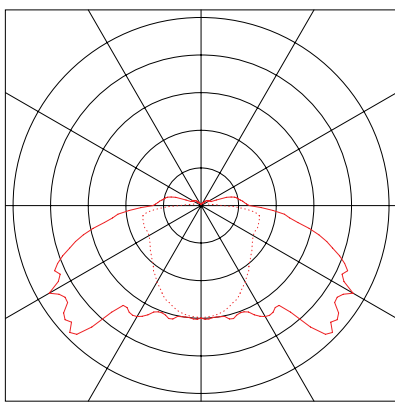


LED BATTENS WEATHERPROOF

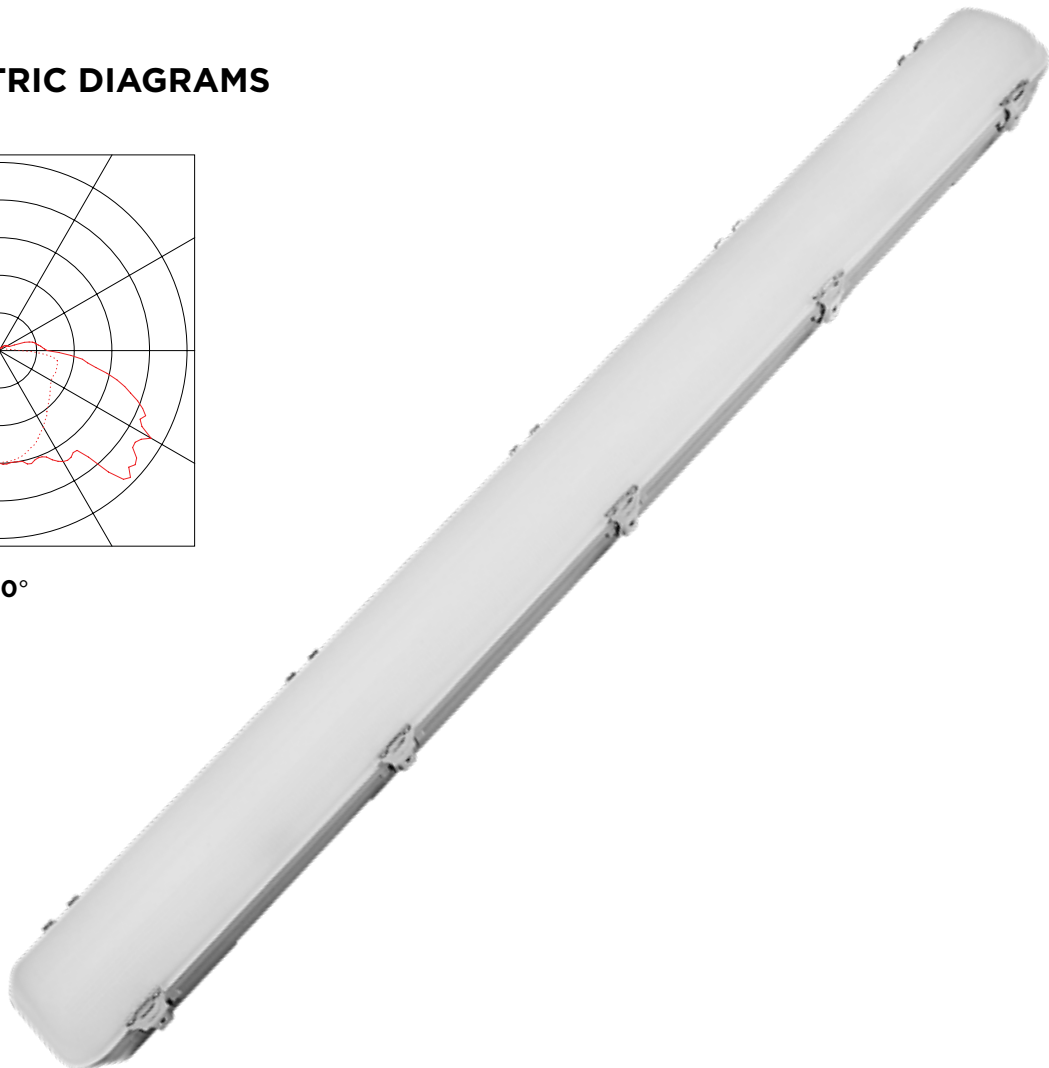
DIMENSIONS



PHOTOMETRIC DIAGRAMS



120°



LED BATTENS WEATHERPROOF

ORDERING METHODOLOGY

PLI-KES	XX WATTS	XX CCT	XX DIMENSIONS
	15W	65 (6500K)	01 (50W/1200*116*100)
	20W	57 (5700K)	02 (50W/1500*116*100)
	24W	50 (5000K)	
	30W	40 (4000K)	
	36W	30 (3000K)	
	50W		
	65W		

ACCESSORIES

BRACKET MOUNT	PLIKES/BM
SUSPENSION CHAIN	PLIKES/SC



LED BATTENS WEATHERPROOF



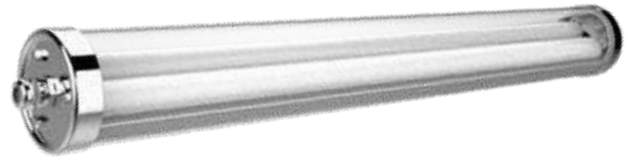
TEXL

LED BATTENS WEATHERPROOF

TEXL

The Texl is an enclosed cylindrical luminaire with integrated control gear designed to withstand high pressure water. Offering a clear polycarbonate diffuser, the Texl is suited to a wide variety of wet and dusty industrial applications.

- PC lens
- IP69
- 1450psi high pressure wash-down
- 316 Stainless steel end caps
- HACCP and NSF approved
- Strong impact resistance IK10
- ENEC approved to ensure top quality



TYPICAL APPLICATIONS



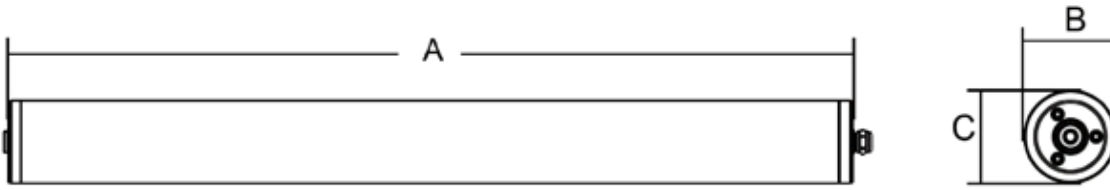
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing, High Wash Down Area, Chemical Plants, Abattoirs, Poultry & Processing Plants, Spirals, Food & Beverage, Ports & Wharves

SPECIFICATIONS

Model:	PLITXL20	PLITXL36	PLITXL48
Optical Characteristics			
Rated Wattage	20W	36W	48W
Lumens	2600	4680	6240
System Efficacy	130Lm/W		
Colour Temperature CCT	5000K (6500K / 4000K / 3000K / Green Eyewash)		
CRI (Ra)	>80		
Reported L70	>50,000 Hours		
Lens Optic Type	PC Lens / Tempered Glass / PMMA		
Electrical Characteristics			
Input	220-240VAC		
Frequency	50Hz		
Powerfactor	≥0.95@230Vac		
Total Harmonic Distortion	≤15%		
Environment			
IP Rating	IP69		
Impact Rating	IK10		
Operating Temperature	-20°C To 35°C		
Product Material and Mounting			
Option 1	Ceiling Mounted		
Option 2	Suspension		
Product Material	316 Stainless Steel End Caps		
Lens / Optics Material	PC Lens (Tempered Glass, PMMA Optional)		
Dimensions and Weights			
Product Dimensions	600*70*70	1200*70*70	1500*70*70
Product Weight	2.0KG	1.6KG	1.9KG
Packaging Dimensions (Ctn 6)	818*411*286	1418*411*286	1718*411*286
Gross Weight (Ctn 6)	12.0KG	9.6KG	11.4KG
Warranty and Certifications			
Warranty	5 Year Warranty		
Certifications	SAA / CE		

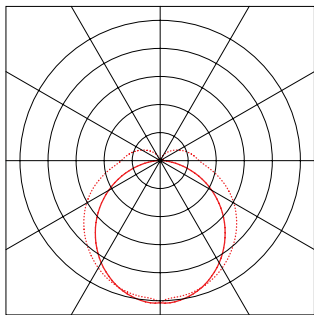
LED BATTENS WEATHERPROOF

DIMENSIONS



WATTAGE	SIZE A (MM)	SIZE B (MM)	SIZE C (MM)
20W	600MM	70MM	70MM
36W	1200MM	70MM	70MM
48W	1500MM	70MM	70MM

PHOTOMETRIC DIAGRAMS



120°



ORDERING METHODOLOGY

PLI-TXL

XX
WATTS

20W
36W
48W

XX
CCT

65 (6500K)
50 (5000K)
40 (4000K)
30 (3000K)
G (GREEN)

XX
LENS TYPE

PC (CLEAR GLASS)
PO (OPAL GLASS)
AC (PMMA CLEAR)
AO (PMMA OPAL)
TG (TEMPERED GLASS)

XX
FUNCTION

ST (STANDARD)
EM (EMERGENCY)

ACCESSORIES

CEILING MOUNT BRACKET
NON-MAINTAINED SMART EMERGENCY MODULE
SUSPENSION KIT
ANTI THEFT CLIP

PLITXL/CM
PLITXL/EM
PLITXL/SK
PLITXL/TC



LED BATTENS WEATHERPROOF



Green Eyewash Available



LED BATTENS WEATHERPROOF



INHIBITOR

LED BATTENS WEATHERPROOF

INHIBITOR

The Inhibitor is an IP65 stainless steel waterproof luminaire suitable for high humidity outdoor environments and is designed to withstand extreme temperatures. It is resistant to impact, provides a 50,000 hour lifetime, and has over 70% energy savings compared to lighting with similar lumen output. The Inhibitor features high luminous efficacy, low power consumption, and is pollution-free making it the perfect solution for a wide range of applications.



TYPICAL APPLICATIONS



Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

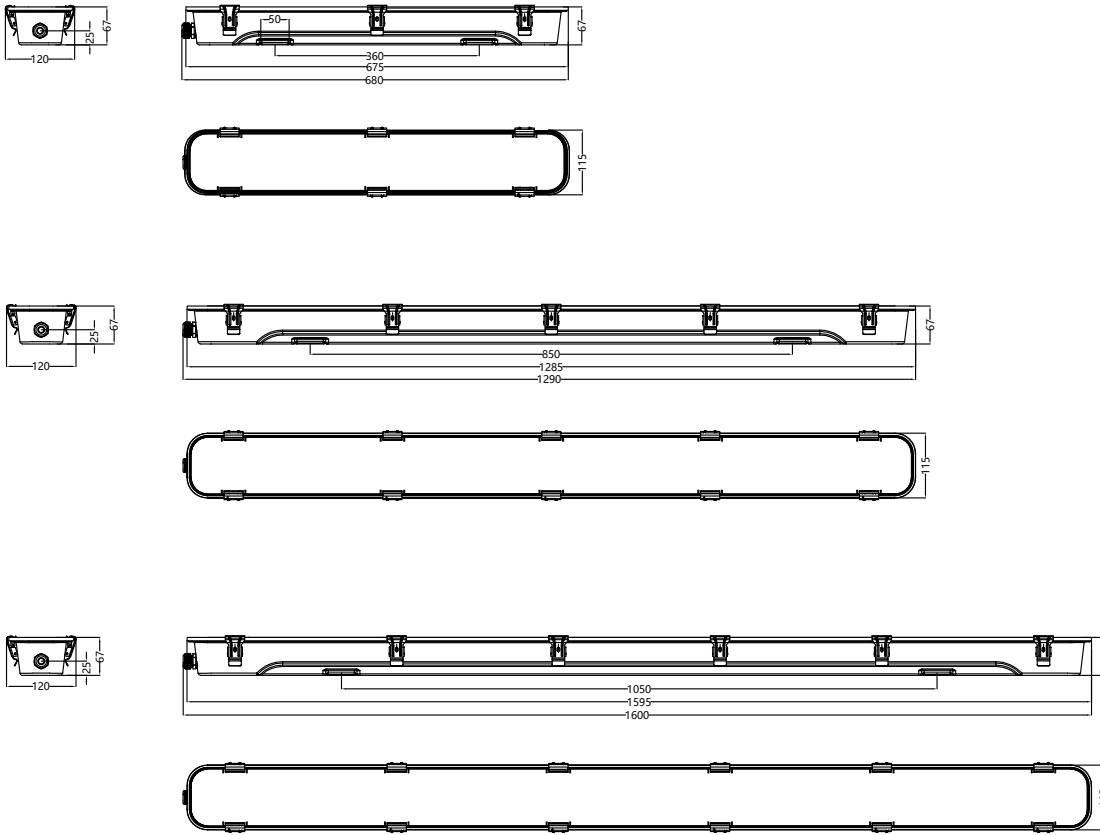
SPECIFICATIONS

Model:	PLIINH25	PLIINH35	PLIINH45	PLIINH50	PLIINH62
Optical Characteristics					
Rated Wattage	25W	35W	45W	50W	62W
Lumens	3500	4900	6300	7000	8680
System Efficacy	140Lm/W				
Colour Temperature CCT	6500K / 5700K / 5000K / 4000K / 3000K				
CRI (Ra)	>80				
Reported L70	>50,000 Hours				
Lens Optic Type	120° Polycarbonate Diffuser				
Electrical Characteristics					
Input	220-240VAC				
Frequency	50Hz				
Powerfactor	>0.90				
Total Harmonic Distortion	<20%				
Environment					
IP Rating	IP65				
Impact Rating	IK08				
Operating Temperature	-40°C To 55°C				
Product Material and Mounting					
Option 1	Ceiling Mount Bracket				
Product Material	304 Stainless Steel				
Lens / Optics Material	Tempered Glass or PC Lens				
Dimensions and Weights					
Product Dimensions	Refer to dimensions below				
Product Weight	2.2KG	3.6KG		4.8KG	
Packaging Dimensions	725*330*290	1325*165*150		1625*165*150	
Gross Weight	10.3KG (Ctn 10)	4.2KG		5.5KG	
Warranty and Certifications					
Warranty	5 Year Warranty				
Certifications	SAA				

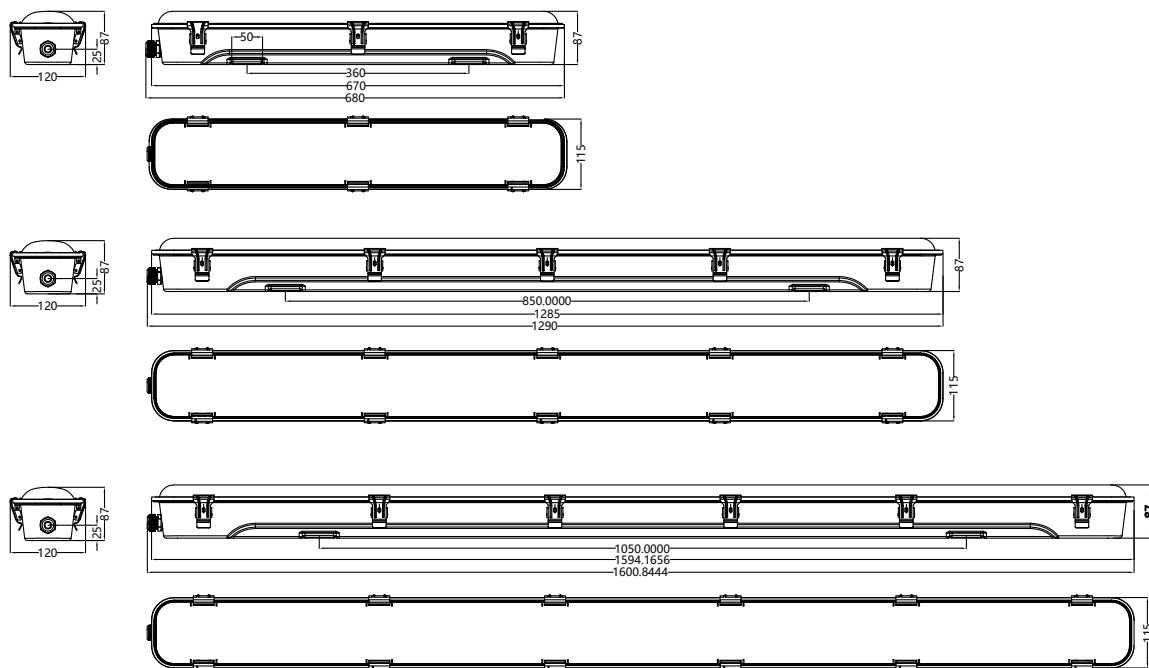
LED BATTENS WEATHERPROOF

DIMENSIONS

POLYCARBONATE COVER



TEMPERED GLASS COVER



LED BATTENS WEATHERPROOF

ORDERING METHODOLOGY

PLI-INH

**XX
WATTAGE**

25W
35W
45W
50W
62W

**XX
CCT**

65 (6500K)
57 (5700K)
50 (5000K)
40 (4000K)
30 (3000K)

**XX
LENS TYPE**

01 (TEMPERED GLASS LENS)
02 (PC LENS)

**XX
FUNCTION**

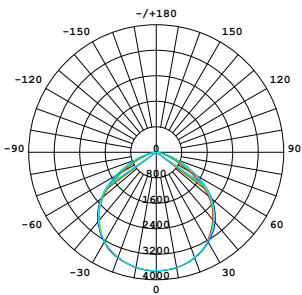
ST (STANDARD)
EM (EMERGENCY)

ACCESSORIES

CEILING MOUNT BRACKET
EMERGENCY KIT
MOTION SENSOR

PLIINH/CM
PLIINH/MS
PLIINH/M

PHOTOMETRIC DIAGRAMS



120°



STRIP LIGHTING



THUNDERBIRD

THUNDERBIRD

The Thunderbird is a high visibility tube light and a high powered LED array (Light Emitting Diode) in a 20mm acrylic enclosed tube with an IP20 rating. This light is suited to Industrial Applications, Visible Break Isolation Panel Lighting, Emergency Lighting, Switch Board Panels and General Electrical Enclosure Lighting. The Thunderbird is a LED array suitable for harsh conditions and sustains a long life. It has been designed to reject electrical interference that normally abounds in industrial environments and includes screw connection for electrical termination.



TYPICAL APPLICATIONS



Cabinet Lighting, Electrical Enclosures, Visible Break Isolators, Strip Lighting

SPECIFICATIONS

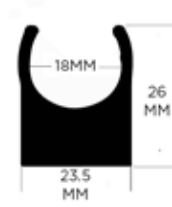
Model:	PLITHU
Optical Characteristics	
Rated Wattage	6W
Lumens	600
System Efficacy	100Lm/W
Colour Temperature CCT	5500K
CRI (Ra)	>80
Reported L70	> 50,000 Hours
Lens Optic Type	120°
Electrical Characteristics	
Input	DC 24V
Frequency	50Hz
Powerfactor	>0.80
Total Harmonic Distortion	<20%
Environment	
IP Rating	IP20
Impact Rating	IK07
Operating Temperature	0°C To 70°C
Product Material and Mounting	
Option 1	Bracket Mount
Product Material	Polycarbonate
Lens / Optics Material	Transparent PC Lens
Dimensions and Weights	
Product Dimensions	192*215
Product Weight	100G
Packaging Dimensions	200*225
Gross Weight	100G
Warranty and Certifications	
Warranty	2 Year Warranty
Certifications	CE / RoHS



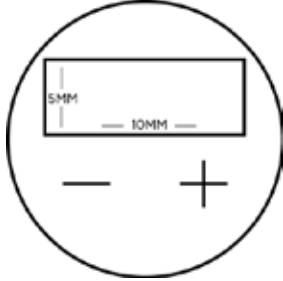
DIMENSIONS



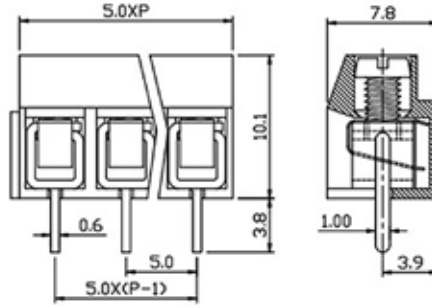
TUBE DIMENSIONS



PIPE BASE

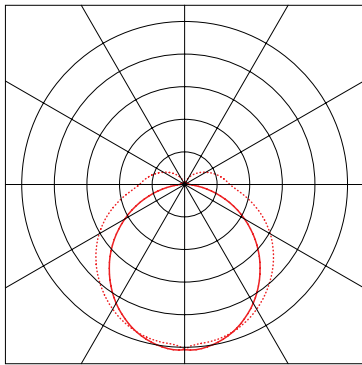


BLOCK HOLE POSITION MAP
*Suitable for 2.5mmsquared Cable



TERMINAL DIMENSIONS

PHOTOMETRIC DIAGRAMS



120°

ORDERING METHODOLOGY

PLI-THU X
WATTS
6W

ACCESSORIES

BRACKET MOUNT PLITHU/BM





ULTRASWING

TOOL-LESS LOWERING POLES AND ACCESSORIES



1300 074 636
www.ultraswing.com.au



LED HIGH & LOW BAYS



GUARDIAN

LED HIGH & LOW BAYS

GUARDIAN

The Guardian is a high efficacy LED High Bay Floodlight, specifically designed for Industrial Lighting applications such as Factories, Warehouses and Workshops. It features a unique optical design that virtually eliminates glare with minimal impact on performance.



TYPICAL APPLICATIONS



Heavy Vehicle Workshops, MIA Infrastructure, Warehouses & Stores, General Workshops, Factories, Heavy Industry, Overhead Cranes

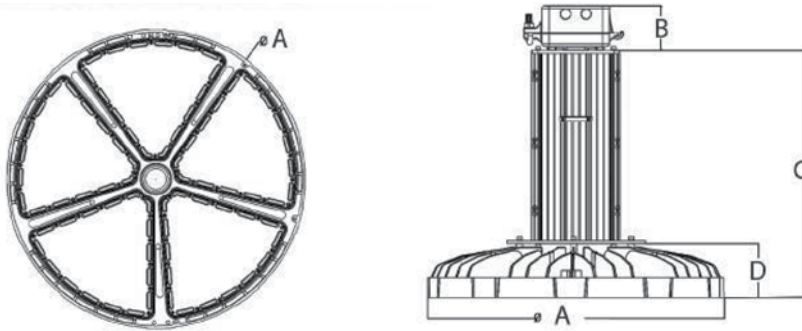
SPECIFICATIONS

Model:	PLIGRDN300	PLIGRDN400	PLIGRDN460
Optical Characteristics			
Rated Wattage	300W	400W	460W
Lumens	50400	64800	74060
System Efficacy	168Lm/W	162Lm/W	161Lm/W
Colour Temperature CCT	5700K (5000K / 4000K / 3000K)		
CRI (Ra)	>70 (>80, >90 Optional)		
Reported L70	>50,000 Hours		
Lens Optic Type	15° / 30° / 60° / 90°		
Electrical Characteristics			
Input	100-277VAC (347/480V Optional)		
Frequency	50Hz		
Powerfactor	<0.95		
Total Harmonic Distortion	<20%		
Environment			
IP Rating	IP65		
Impact Rating	IK08		
Operating Temperature	-40°C To 50°C		
Product Material and Mounting			
Option 1	Eyebolt		
Product Material	Aluminum		
Lens / Optics Material	PC Lens		
Dimensions and Weights			
Product Dimensions	Refer to Dimensions		
Product Weight	20.0KG		
Packaging Dimensions	756*756*340		
Gross Weight	22.2KG		
Warranty and Certifications			
Warranty	5 Year Warranty		
Certifications	SAA / CE / RoHS		



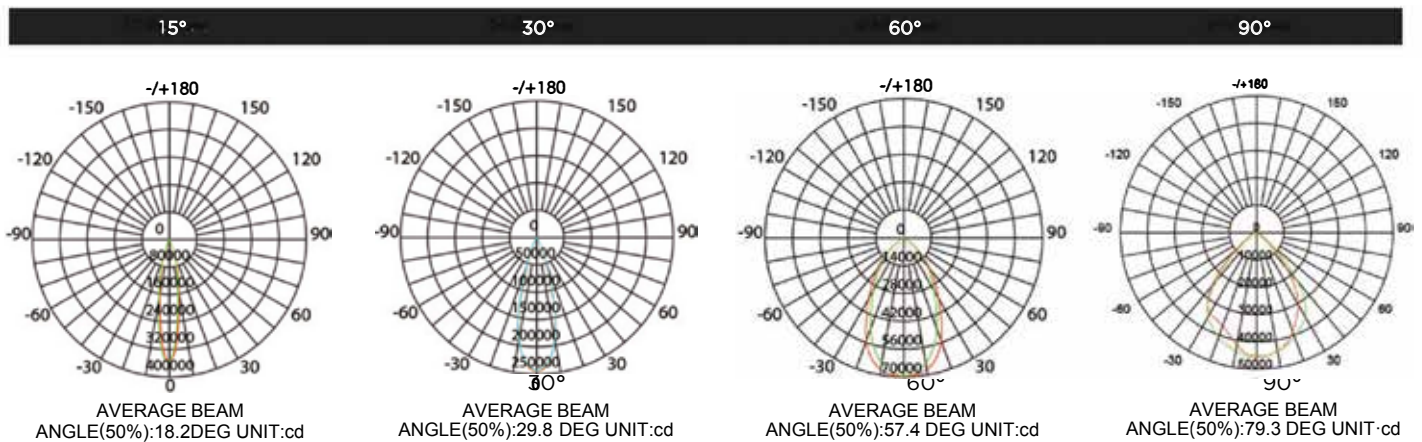
LED HIGH & LOW BAYS

DIMENSIONS



A	B	C	D
556mm	830mm	461mm	100mm

PHOTOMETRIC DIAGRAMS



ORDERING METHODOLOGY

PLI-GRDN

XXX WATTS

300W
400W
460W

XX CCT

57 (5700K)
50 (5000K)
40 (4000K)
30 (3000K)

XX BEAM ANGLE

01 (15°)
02 (30°)
03 (60°)
04 (90°)

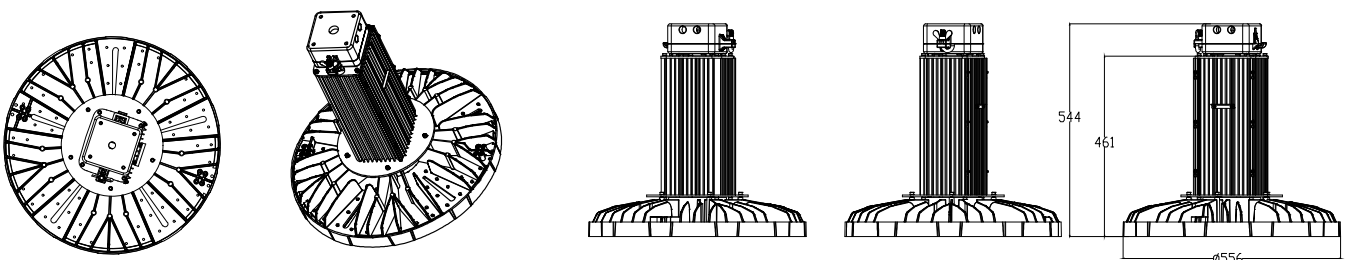
X CONTROLS

X (NONE)
M (MOTION)
D (1-10V)

ACCESSORIES

EYEBOLT
MOTION SENSOR
DIMMABLE 1-10V DRIVER
JUNCTION BOX

PLIGRDN/EB
PLIGRDN/M
PLIGRDN/D
PLIGRDN/JB





LED HIGH & LOW BAYS



**HARRIER
EXTREME**

HARRIER EXTREME

The Harrier Extreme is a high efficacy LED High Bay Floodlight designed for Industrial and Indoor Lighting. It features a superior high output and a unique optical design that virtually eliminates glare with minimal impact on performance.



TYPICAL APPLICATIONS



Heavy Vehicle Workshops, MIA Infrastructure, Warehouses & Stores, General Workshops, Factories, Heavy Industry, Overhead Cranes, Airports

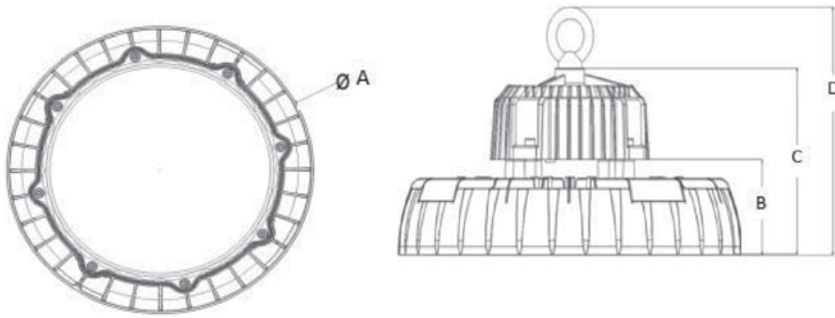
SPECIFICATIONS

Model:	PLIH60	PLIH100	PLIH150	PLIH200	PLIH240
Optical Characteristics					
Rated Wattage	60W	100W	150W	200W	240W
Lumens	10020	15800	24900	33200	39120
System Efficacy	167Lm/W	158Lm/W	166Lm/W	166Lm/W	163Lm/W
Colour Temperature CCT	5000K (5700K / 4000K / 3000K)				
Frequency	>70 (>80 Optional)				
Reported L70	> 50,000 Hours				
Lens Optic Type	60° / 90° / 120°				
Electrical Characteristics					
Input	100-277VAC (347/480V Optional)				
Frequency	50Hz				
Powerfactor	<0.96				
Total Harmonic Distortion	<20%				
Environment					
IP Rating	IP40	IP65			
Impact Rating	IK08				
Operating Temperature	-40°C To 50°C				
Product Material and Mounting					
Option 1	Eyebolt				
Option 2	U Bracket				
Product Material	Aluminum Housing				
Lens / Optics Material	Toughened Glass and PC Lens				
Dimensions and Weights					
Product Dimensions	Refer to dimensions below				
Product Weight	2.9KG	4.6KG	6.2KG		
Packaging Dimensions	400*400*300	480*480*310	580*580*330		
Gross Weight	3.8KG	6.0KG	7.2KG		
Warranty and Certifications					
Warranty	5 Year Warranty				
Certifications	SAA / CE / RoHS				

** High lumen output up to 170Lm/W available on request

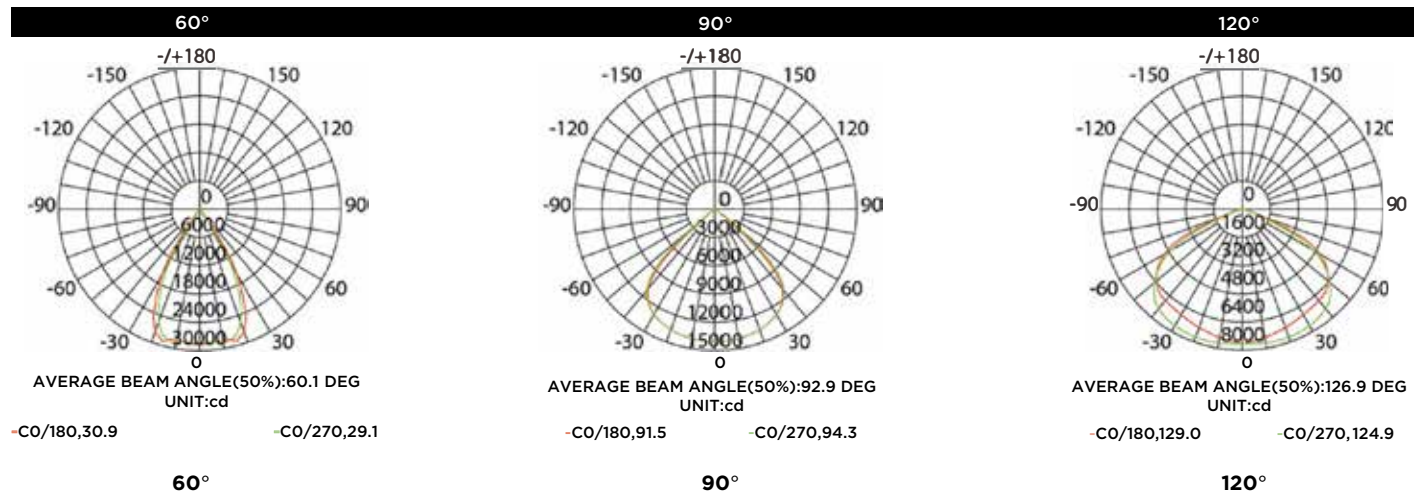
LED HIGH & LOW BAYS

DIMENSIONS



A	B	C	D
60W and 100W Models			
248mm	710mm	138mm	182mm
150W Model			
319mm	710mm	138mm	183mm
200W and 240W Models			
400mm	710mm	141mm	202mm

PHOTOMETRIC DIAGRAMS

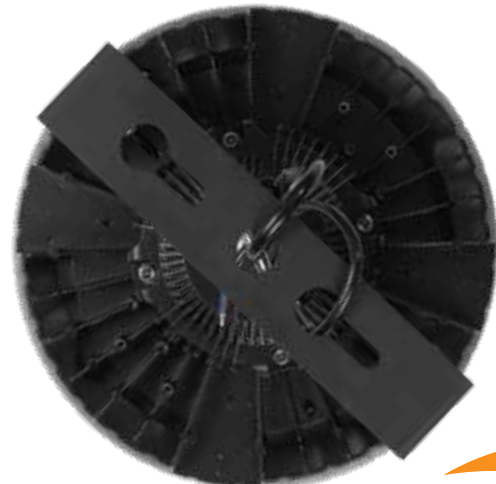


ORDERING METHODOLOGY

PLI-HEX	XXX WATTS	XX CCT	XX BEAM ANGLE
	60W	57 (5700K)	01 (60°)
	100W	50 (5000K)	02 (90°)
	150W	40 (4000K)	03 (120°)
	200W		
	240W		

ACCESSORIES

EYEBOLT	PLIHEX/EB
U BRACKET	PLIHEX/UB
PE CELL	PLIHEX/P
MOTION SENSOR	PLIHEX/M
POLYCARBONATE DIFFUSER	PLIHEX/PC



LED HIGH & LOW BAYS



HARRIER PLUS

LED HIGH & LOW BAYS

High Voltage Options Available



HARRIER PLUS

The Harrier Plus is a robust LED High Bay Floodlight designed for industrial environments. It features marine grade aluminum housing and a polyester powder-coat finish which provides chemical resistance in corrosive environments. It features over-current, over-voltage and temperature protection to protect the driver and LEDs in case the supply voltage fluctuates and where the voltage transients can damage sensitive electronics.

TYPICAL APPLICATIONS



Heavy Vehicle Workshops, MIA Infrastructure, Warehouses & Stores, General Workshops, Factories, Heavy Industry, Overhead Cranes, Airports

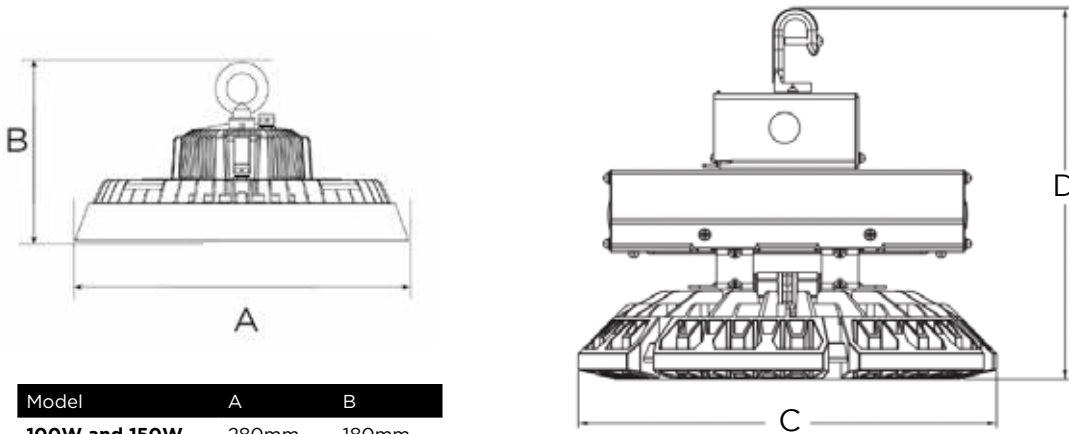
SPECIFICATIONS

Model:	PLIHPL100	PLIHPL150	PLIHPL200	PLIHPL240
Optical Characteristics				
Rated Wattage	100W	150W	200W	240W
Lumens	16000	24000	32000	38400
System Efficacy	160Lm/W			
Colour Temperature CCT	5000K (6000K / 4000K)			
CRI (Ra)	>70 (>80, >90 Optional)			
Reported L70	>50,000 Hours			
Lens Optic Type	60° / 90° / 110°			
Electrical Characteristics				
Input	100-240VAC			
Frequency	50Hz			
Powerfactor	>0.95			
Total Harmonic Distortion	<15%			
Environment				
IP Rating	IP65			
Impact Rating	IK08			
Operating Temperature	-30°C To 50°C			
Product Material and Mounting				
Option 1	Eyebolt			
Option 2	Ceiling Mount U Bracket			
Product Material	Aluminum			
Lens / Optics Material	PC Lens			
Dimensions and Weights				
Product Dimensions	280*280*180		360*360*190	
Product Weight	3.08KG		4.78KG	
Packaging Dimensions	380*380*280		460*460*300	
Gross Weight	4.58KG		6.5KG	
Warranty and Certifications				
Warranty	5 Year Warranty			
Certifications	CE / RoHS			



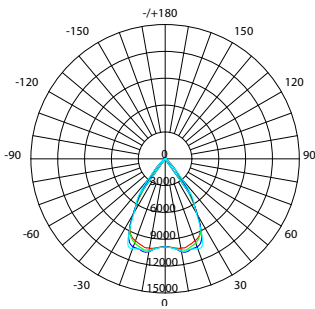
LED HIGH & LOW BAYS

DIMENSIONS

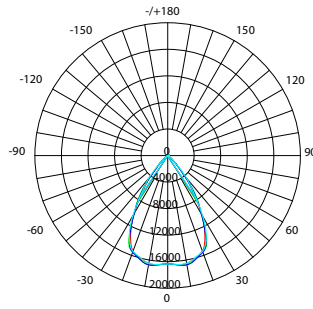


Model	A	B
100W and 150W	280mm	180mm
200W and 240W	360mm	190mm

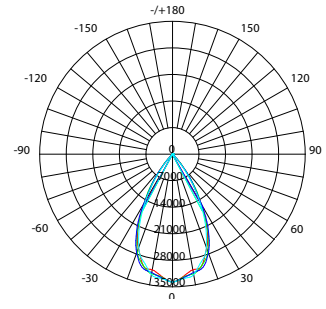
PHOTOMETRIC DIAGRAMS



60°



90°



110°

ORDERING METHODOLOGY

PLI-HPL

XXX WATTS

- 100W
- 150W
- 200W
- 240W

XX CCT

- 60 (6000K)
- 50 (5000K)
- 40 (4000K)

XX BEAM ANGLE

- 01 (60°)
- 02 (90°)
- 03 (110°)

X CONTROLS

- X (NONE)
- M (MOTION SENSOR)
- D (DALI)

ACCESSORIES

- EYEBOLT
- CEILING MOUNT U BRACKET
- MOTION SENSOR
- DALI

- PLIHPL/EB
- PLIHPL/UB
- PLIHPL/M
- PLIHPL/D



LED HIGH & LOW BAYS



LED HIGH & LOW BAYS



ROVER

LED HIGH & LOW BAYS

ROVER

The Rover is a low-profile and durable state of the art fixture. It is designed to quickly and easily upgrade existing H.I.D and fluorescent fixtures. The LED high bay combines high light output LED technology with remarkable energy savings for a quick return on investment. Offered in narrow and wide beam distributions, the Rover can include a dimming feature and be equipped with a motion sensor. The Dali control provides you with the convenience of smart lighting and maximizes your energy consumption savings.



TYPICAL APPLICATIONS

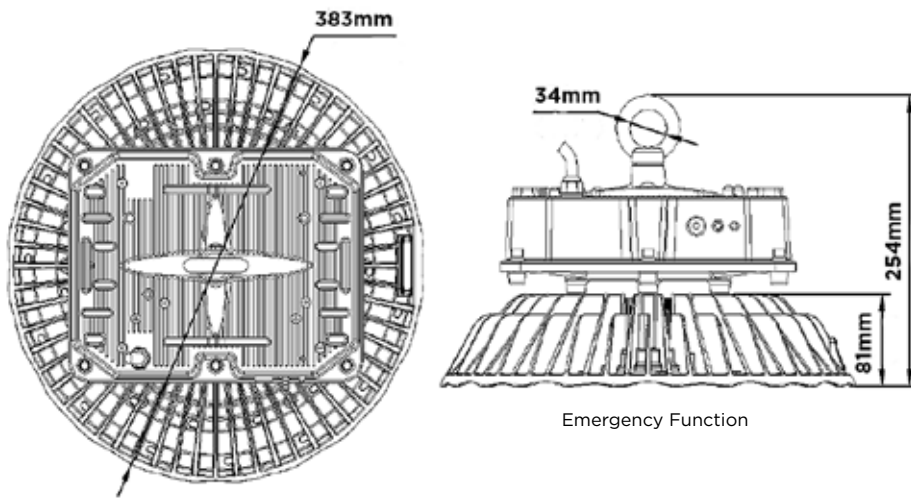


Heavy Vehicle Workshops, MIA Infrastructure, Warehouses & Stores, General Workshops, Factories, Heavy Industry, Overhead Cranes, Airports

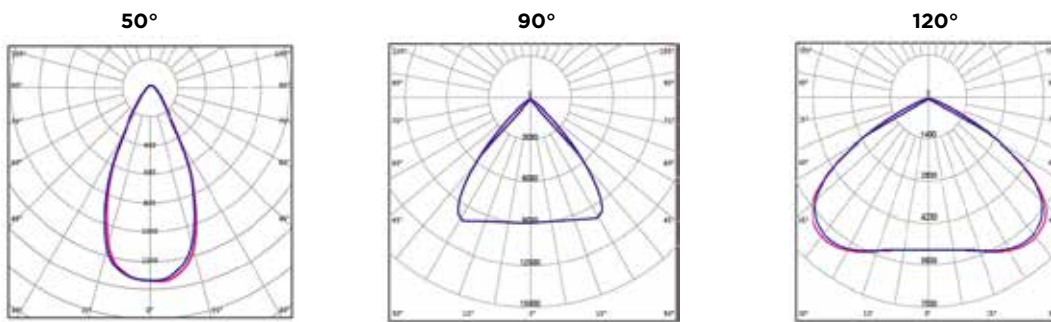
SPECIFICATIONS

Model:	PLIROV100	PLIROV120	PLIROV150	PLIROV200	PLIROV240	PLIROV300
Optical Characteristics						
Rated Wattage	100W	120W	150W	200W	240W	300W
Lumens	14000	16800	21000	28000	33600	42000
System Efficacy	140Lm/W					
Colour Temperature CCT	50000K (4000K / 3000K)					
CRI (Ra)	>70 (>80 Optional)					
Reported L70	>50,000 Hours					
Lens Optic Type	50° / 90° / 120°					
Electrical Characteristics						
Input	100-240VAC					
Frequency	50 / 60Hz					
Powerfactor	>0.9					
Total Harmonic Distortion	<20%					
Environment						
IP Rating	IP65					
Impact Rating	IK10					
Operating Temperature	-30°C To 50°C					
Product Material and Mounting						
Option 1	Eyebolt					
Option 2	Ceiling Mount Bracket (45° or 180°)					
Product Material	Aluminum Housing					
Lens/Optics Material	Tempered Glass (PC Lens Optional)					
Dimensions and Weights						
Product Dimensions	Refer to dimensions below					
Product Weight	7.0KG		7.3KG		7.6KG	
Packaging Dimensions	440*255*449					
Gross Weight	7.9KG		8.7KG		9.6KG	
Options						
Warranty	5 Year Warranty					
Certifications	SAA /CE /RoHS					

DIMENSIONS



PHOTOMETRIC DIAGRAMS



ACCESSORIES



Aluminum Reflector



45° Ceiling Mount Bracket



180 Deg Bracket



Safety Chain

LED HIGH & LOW BAYS

ORDERING METHODOLOGY

PLI-ROV	XXX WATTS	XX CCT	XX BEAM ANGLE	XX LENS TYPE	XX FUNCTION	XXX CONTROLS
	100W 120W 150W 200W 240W 300W	50 (5000K) 40 (4000K) 30 (3000K)	01 (50°) 02 (90°) 03 (120°)	TG (TEMPERED GLASS) PC (POLYCARBONATE LENS)	ST (STANDARD) EM (EMERGENCY)	X (NONE) M (MOTION SENSOR) D (DIMMABLE 1-10V) P (PE CELL) DA (DALI) ZIG (ZIGBEE)

ACCESSORIES

EYEBOLT	PLIROV/EB
45° CEILING MOUNT BRACKET	PLIROV/CM1
180° CEILING MOUNT BRACKET	PLIROV/CM2
MOTION SENSOR	PLIROV/M
DIMMABLE 1-10V DRIVER	PLIROV/D
PE CELL	PLIROV/P
DALI CONTROL	PLIROV/DA
ZIGBEE CONTROL	PLIROV/ZIG
ALUMINIUM REFLECTOR	PLIROV/ALU
SAFETY CHAIN	PLIROV/SC



Optional Emergency Function



LINEAR LIGHTS



RAPTOR

LINEAR LIGHTS

RAPTOR

The Raptor is a linear LED High Bay Floodlight that features a narrow lighting pattern and asymmetric optic lens that can adapt to environments that require high shelving such as Factories, Warehouses and Workshops. The rectangular light pattern can reduce light loss and works perfectly as an aisle lighting solution. Intelligent Lighting add ons are also available such as a PIR sensor, motion sensor and daylight harvesting sensors.



TYPICAL APPLICATIONS



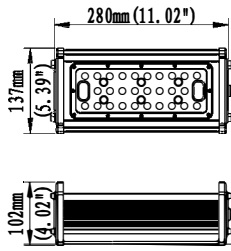
Heavy Vehicle Workshops, MIA Infrastructure, Warehouses & Stores, General Workshops, Factories, Heavy Industry, Overhead Cranes, Airports

SPECIFICATIONS

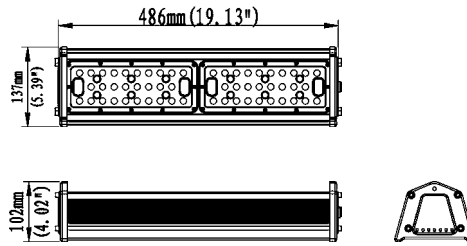
Model:	PLIRAP30	PLIRAP60	PLIRAP90	PLIRAP120	PLIRAP150	PLIRAP180
Optical Characteristics						
Rated Wattage	30W	60W	90W	120W	150W	180W
Lumens	3900	7800	12150	16200	20250	24300
System Efficacy	130Lm/W		135Lm/W			
Colour Temperature CCT	5000K (4000K / 3000K)					
CRI (Ra)	>70					
Reported L70	>50,000 Hours					
Lens Optic Type	90° / 120° / 30° x 70° / 60° x 90° / 40° x 130°					
Electrical Characteristics						
Input	100-277VAC					
Frequency	50Hz					
Powerfactor	>0.90					
Total Harmonic Distortion	<10%					
Environment						
IP Rating	IP65					
Impact Rating	IK10					
Operating Temperature	-30°C To 50°C					
Product Material and Mounting						
Option 1	Adjustable Surface Mount					
Option 2	Wire Suspension Mount					
Product Material	Aluminum Alloy					
Lens / Optics Material	PC Lens					
Dimensions and Weights						
Product Dimensions	280*137*102	486*137*102	718*137*102	718*275*102	948*137*102	1178*137*102
Product Weight	2KG	3.4KG	4.7KG	5.8KG	6.9KG	8.7KG
Packaging Dimensions	350*200*160	555*200*160	790*200*160	790*338*160	1020*200*160	1250*200*160
Gross Weight	2.3KG	4.0KG	5.3KG	6.5KG	8.0KG	9.8KG
Warranty and Certifications						
Warranty	5 Year Warranty					
Certifications	CE / SAA / ROHS / ENEC / CB					

DIMENSIONS

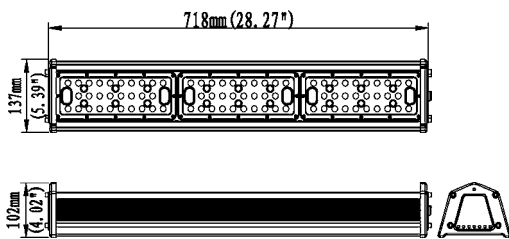
30W



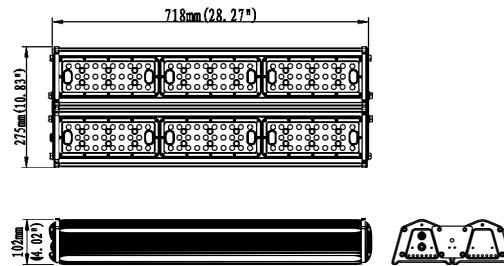
60W



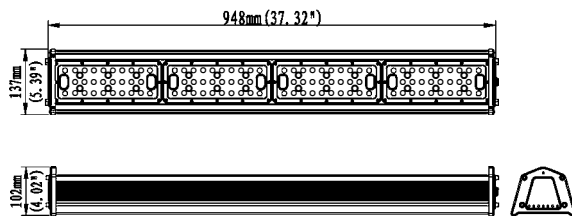
90W



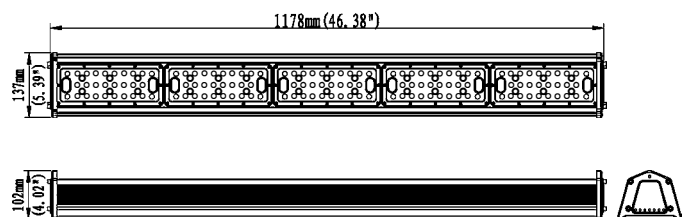
120W



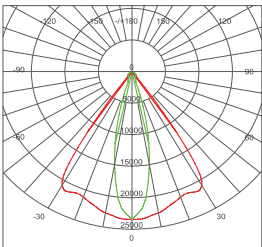
150W



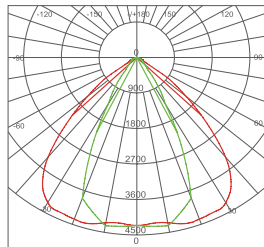
180W



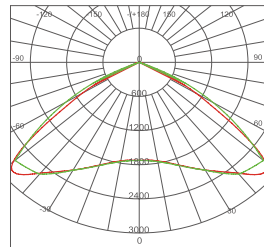
PHOTOMETRIC DIAGRAMS



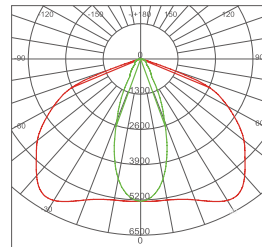
L02801/90°



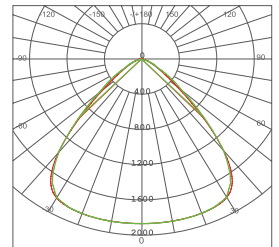
L02802/120°



L02803/30° x 70°



L02804/60° x 90°



L02805/40° x 130°

ORDERING METHODOLOGY

PLI-RAP

XX WATTS

30W
60W
90W
120W
150W
180W

XX CCT

50 (5000K)
40 (4000K)
30 (3000K)

XX LENS TYPE

01 (L02801/90°)
02 (L02802/120°)
03 (L02803/30° x 70°)
04 (L02804/60° x 90°)
05 (L02805/40° x 130°)

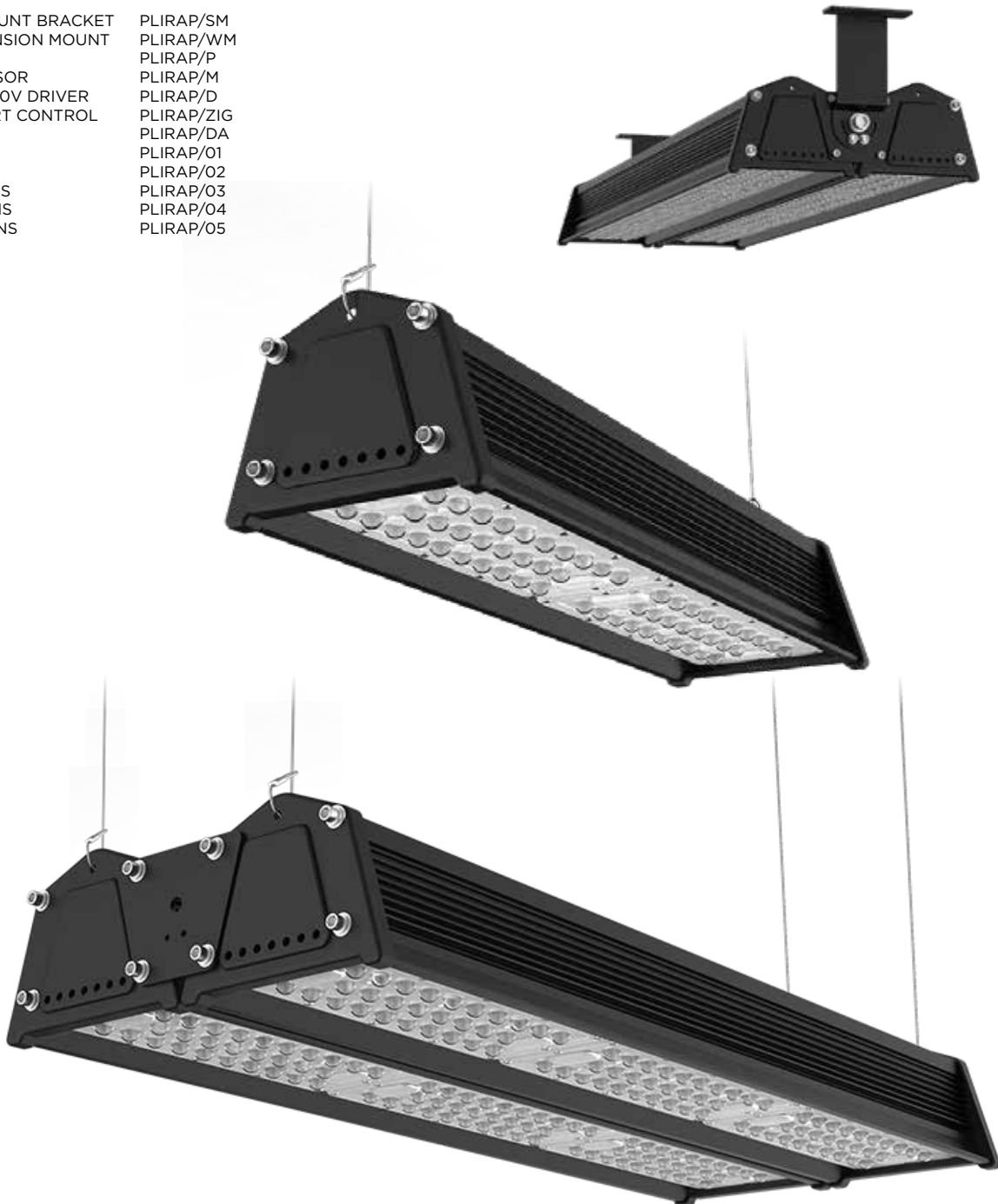
XX FUNCTION

ST (STANDARD)
EM (EMERGENCY)

ACCESSORIES

SURFACE MOUNT BRACKET
WIRE SUSPENSION MOUNT
PE CELL
MOTION SENSOR
DIMMABLE 1-10V DRIVER
ZIGBEE SMART CONTROL
DALI
90° LENS
120° LENS
30° x 70° LENS
60° x 90° LENS
40° x 130° LENS

PLIRAP/SM
PLIRAP/WM
PLIRAP/P
PLIRAP/M
PLIRAP/D
PLIRAP/ZIG
PLIRAP/DA
PLIRAP/01
PLIRAP/02
PLIRAP/03
PLIRAP/04
PLIRAP/05



EXIT LIGHTING



**RUNNING
MAN I**

EXIT LIGHTING

RUNNING MAN I

The Running Man I is an energy efficient, long life LED emergency exit light. It features both single and double sided decals with both the Running Man and Exit decals included. The Running Man I is complete with a large terminal block + entry cable and maintained emergency operation mode.



TYPICAL APPLICATIONS



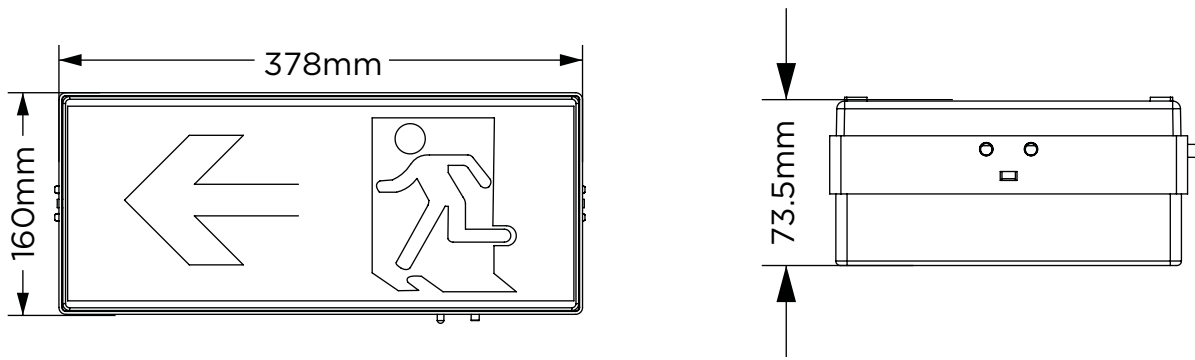
Switch Rooms, Control Rooms, Electrical Equipment Rooms, Tunnels, Industrial Warehouse, Office Complex, Workshops

SPECIFICATIONS

Model	PLIRM1
Optical Characteristics	
Rated Wattage	3W
Lumens	300
System Efficacy	100Lm/W
Colour Temperature CCT	5700K
CRI (Ra)	>70
Reported L70	>50,000 Hours
Lens Optic Type	Polycarbonate Diffuser
Viewing Distance	24M
Electrical Characteristics	
Input	240V
Frequency	50Hz
Powerfactor	>0.9
Operating Mode	
Operating System	Manual Test Switch
Charging Method	Constant Current (16hrs), Pulse Charge (Standby)
Total Harmonic Distortion	N/A
Environment	
IP Rating	IP20
Impact Rating	IK08
Operating Temperature	0°C To 40°C
Product Material and Mounting	
Option 1	Wall Mount
Product Material	Polycarbonate Body
Lens / Optics Material	PC Lens
Dimensions and Weights	
Product Dimensions	378*160*73.5
Product Weight	1.48KG
Packaging Dimensions (Ctn 10)	430.5*410.5*360.5
Weight (Ctn 10)	14.8KG
Certifications and Warranty	
Warranty	2 Year Warranty
Certifications	SAA
AS/NZ 2293 Classification	C0=E2.5 C90=D2.0

EXIT LIGHTING

DIMENSIONS



STANDARD DECAL SET



* Standard decal set included

ORDERING METHODOLOGY

PLI-RM1 $\left\{ \begin{array}{l} X \\ \text{WATTS} \end{array} \right.$
3W

ACCESSORIES

WALL MOUNT BRACKET

PLIRM1/WM

NEW



VIEW OUR FULL RANGE OF
**EX SERIES TERMINAL
ENCLOSURES & TITANIUM
GRP HIGH HEAT ENCLOSURES**

1300 074 636
www.phoenixems.com.au


EXCALIBUR
ENCLOSURES
MANUFACTURED BY PHOENIX EMS

EXIT LIGHTING



RUNNING MAN II

RUNNING MAN II

The Running Man II is a corrosion resistant emergency luminaire for use in hazardous areas that may be subject to flammable liquids, gases, vapors or combustible dusts. It features a corrosion resistant GRP body and polycarbonate diffuser with a central locking device that disconnects the supply when the luminaire is opened. Applications include Chemical and Petrochemical Processing, Storage Facilities, Industrial and Commercial.



TYPICAL APPLICATIONS



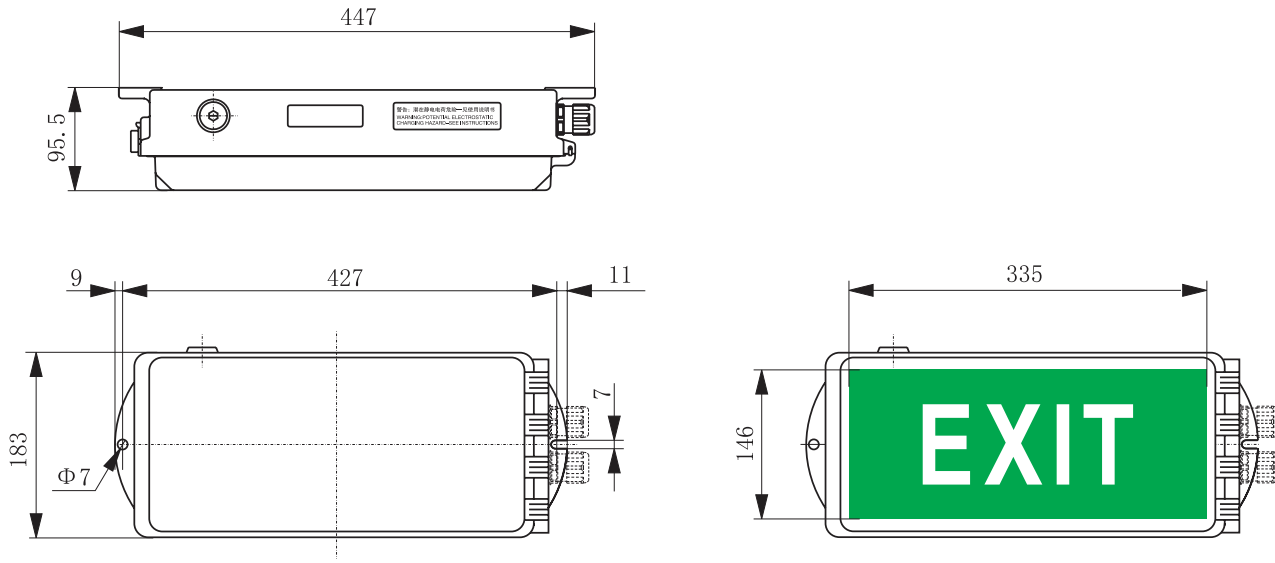
Switch Rooms, Control Rooms, Electrical Equipment Rooms, Tunnels, Industrial Warehouse, Office Complex, Workshops

SPECIFICATIONS

Model	PLIRM2
Optical Characteristics	
Rated Wattage	3W
Lumens	160
System Efficacy	53Lm/W
Colour Temperature CCT	5700K
CRI (Ra)	>70
Reported L70	50,000 Hours
Lens Optic Type	Polycarbonate
Viewing Distance	30M
Electrical Characteristics	
Input	110-240V
Frequency	50/60Hz
Powerfactor	>0.95
Total Harmonic Distortion	20%
Environment	
IP Rating	IP66
Impact Rating	IK10
Operating Temperature	-20°C To 55°C
Product Material and Mounting	
Option 1	Surface Mount
Product Material	Polycarbonate
Lens / Optics Material	PC Lens
Dimensions and Weights	
Product Dimensions	447*183*96
Product Weight	3.5KG
Packaging Dimensions	460*220*180
Gross Weight	3.2KG
Warranty and Certifications	
Warranty	5 Year Warranty
Certifications	IECEX
Classification	Zone 1 & Zone 21 / Zone 2 & 22
Rating	IECEX/Gas: Ex eb ib op is II q C T4 Gb (without fuse and isolation switch) / Ex db eb ib mb op is q II C T4 Gb (with fuse and isolation switch) IECEX/Dust: Ex tb III C T80 Db (without fuse and isolation switch) / Ex tb III C T80 Db (with fuse and isolation switch).

EXIT LIGHTING

DIMENSIONS



DECAL OPTIONS



DECAL - 01



DECAL - 02



DECAL - 03



DECAL - 04



DECAL - 05

ORDERING METHODOLOGY

PLI-RM2

X
WATTS

3W

XX
FUNCTION

ST (STANDARD)
M (MAINTAINED EMERGENCY)
NM (NON-MAINTAINED EMERGENCY)

XX
SURGE PROTECTION

X (NONE)
FS (FUSE & SWITCH)

ACCESSORIES

SURFACE MOUNT BRACKET	PLIRM2/SM
EXIT DECAL	PLIRM2/01
UP ARROW DECAL	PLIRM2/02
DOWN ARROW DECAL	PLIRM2/03
LEFT ARROW DECAL	PLIRM2/04
RIGHT ARROW DECAL	PLIRM2/05



EXIT LIGHTING



RUNNING MAN III

EXIT LIGHTING

RUNNING MAN III

The Running Man III is a LED weatherproof and energy efficient emergency exit light. It features both single and double sided decals with both the Running Man and Exit decals included.



TYPICAL APPLICATIONS



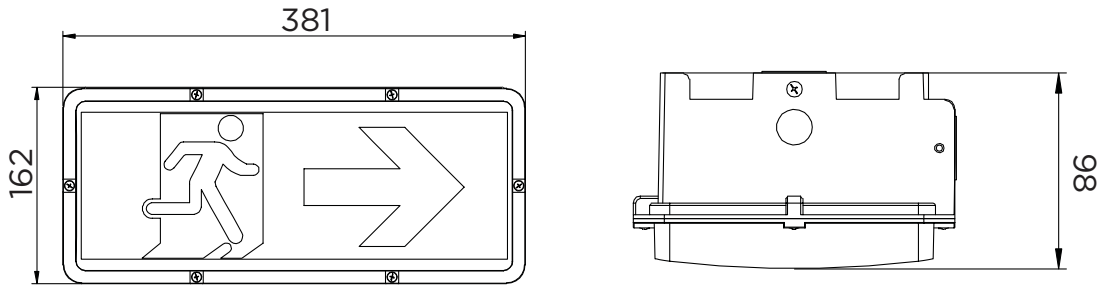
Switch Rooms, Control Rooms, Electrical Equipment Rooms, Tunnels, Industrial Warehouse, Office Complex, Workshops

SPECIFICATIONS

Model	PLIRM3
Optical Characteristics	
Rated Wattage	3W
Lumens	300
System Efficacy	100Lm/W
Colour Temperature CCT	5700K
CRI (Ra)	>70
Reported L70	>50,000 Hours
Lens Optic Type	Polycarbonate Diffuser
Viewing Distance	24M
Electrical Characteristics	
Input	240V
Frequency	50Hz
Powerfactor	>0.9
Operating Mode	
Operating System	Manual Test Switch
Charging Method	Constant Current (16hrs), Pulse Charge (Standby)
Total Harmonic Distortion	N/A
Environment	
IP Rating	IP65
Impact Rating	IK08
Operating Temperature	1°C To 40°C
Product Material and Mounting	
Option 1	Wall Mount
Product Material	Polycarbonate Body
Lens / Optics Material	PC Lens
Dimensions and Weights	
Product Dimensions	381*162*86
Product Weight	4.1KG
Packaging Dimensions (Ctn 10)	560*410*360
Weight (Ctn 10)	41.0KG
Certifications and Warranty	
Warranty	2 Year Warranty
Certifications	SAA
AS/NZ 2293 Classification	CO=E2.5 C90=D2.0

EXIT LIGHTING

DIMENSIONS



STANDARD DECAL SET



* Standard decal set included

ORDERING METHODOLOGY

PLI-RM3 X
WATTS
3W

ACCESSORIES

WALL MOUNT BRACKET

PLIRM3/WM



VIEW OUR FULL RANGE OF
**HAZARDOUS AREA
ENCLOSURES**

1300 074 636

www.phoenixems.com.au



EXCALIBUR
ENCLOSURES

MANUFACTURED BY PHOENIX EMS

SOLAR LED



APOLLO

APOLLO

The Apollo is an all in one solar luminaire, featuring built in MPPT technology that tracks the maximum sun for a quick charge. The Apollo allows for 8-10 hours of full brightness after a full charge, or 36 hours in dimming mode. It also features a wide range of control system functions: switch on, dimming, colour temperature, timing, light control, motion sensor, working status display, energy saving analysis, fault report, GIS positioning and group function via it's in built iSense Smart Control System.



TYPICAL APPLICATIONS



Urban and Rural Roads, Highways, Water Dikes, Bridges, Parks, Industrial Areas, City Squares, Residential Areas

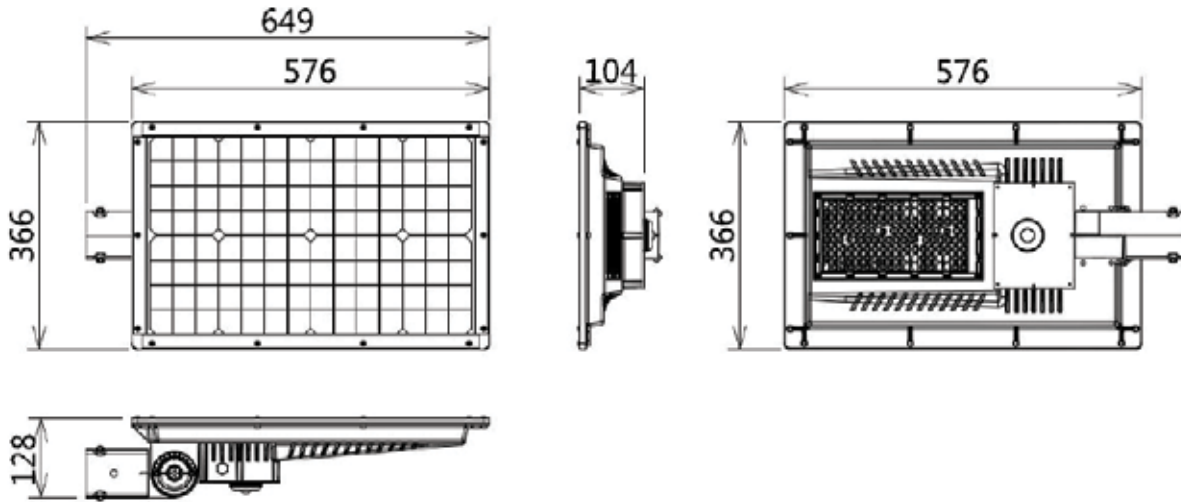
SPECIFICATIONS

Model	PLIAP010	PLIAP020	PLIAP030	PLIAP040	PLIAP050	PLIAP060
Optical Characteristics						
Rated Wattage	10W	20W	30W	40W	50W	60W
Lumens	1700	3200	4440	5600	6750	7800
System Efficacy	170Lm/w	160Lm/w	148Lm/w	140Lm/w	135Lm/w	130Lm/w
Colour Temperature CCT	5000K / 4000K / 3000K					
CRI (Ra)	>70					
Reported L70	>50,000 Hours					
Lens Optic Type	70° x 150°					
Solar Characteristics						
Solar Panel	30W			75W		
Photovoltaic Panel	Monocrystalline Silicon Photovoltaic Panel					
Li-on Battery	12V/13AH			12V/40AH		
Charging Time	5-7 Hours					
Run Time (Full Power)	10 Hours			7.5 Hours		6 Hours
Environment						
IP Rating	IP65					
Impact Rating	IK08					
Operating Temperature	-30°C To 50°C					
Product Material and Mounting						
Option 1	Adjustable Post Top Mount (60MM Spigot)					
Option 2	Adjustable Side Entry Mount (60MM Spigot)					
Product Material	Aluminium Housing					
Lens Cover / Optics Material	PC Lens					
Dimensions and Weights						
Product Dimensions	649*366*128			931*535*137		
Product Weight	7.6KG			16.4KG		
Packaging Dimensions	644*434*188			980*600*180		
Gross Weight	8.4KG			18.0KG		
Warranty & Certifications						
Warranty	3 Year Warranty					
Certification	SAA / CE					

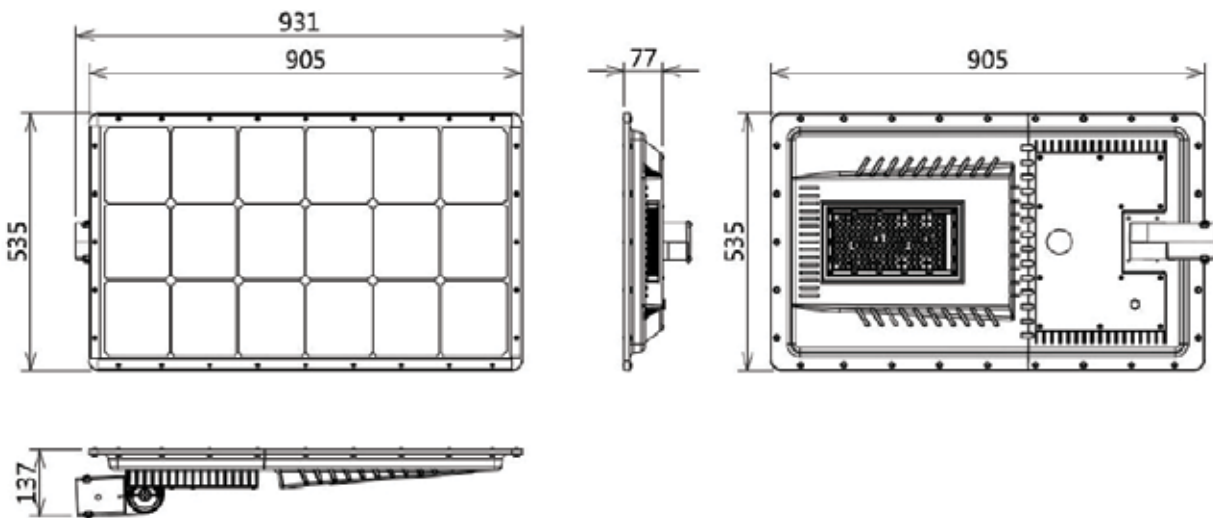
SOLAR LED

DIMENSIONS

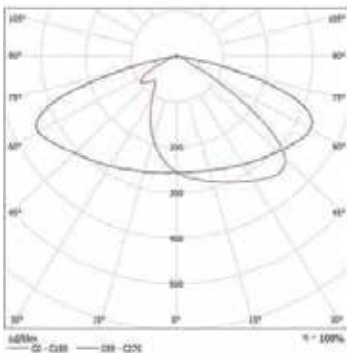
10/20W



30/40/50/60W



PHOTOMETRIC DIAGRAMS



70° x 150°

ORDERING METHODOLOGY

PLI-APO

XX
WATTS

- 10W
- 20W
- 30W
- 40W
- 50W
- 60W

XX
CCT

- 50 (5000K)
- 40 (4000K)
- 30 (3000K)

ACCESSORIES

60MM SPIGOT

PLIAP0/SP

SMART TECHNOLOGY

Built in MPPT Technology to track maximum sunlight for quick charging and an EMS Management System to monitor, control and carry out optimal energy usage even after 10 days of rainy weather. The Apollo also has multiple built in control system functions via the iSense Smart Control System which is controlled remotely from a mobile device or computer: switch on, dimming, colour temperature, timing, light control, motion sensor, working status display, energy saving analysis, fault report, GIS positioning and group function.



SOLAR LED



GALACTIC PLUS

GALACTIC PLUS

The Galactic Plus is a die-cast aluminum all in one solar light. It features an anti-UV polycarbonate lens with precision individual optics for uniform illumination and is designed for industrial applications that may have limited access to electrical supply. The PIR/microwave motion sensor and smart lighting controller are built in for remote monitoring, fault tracking and precise positioning, and an automatic fault alarm via a smart cloud platform to access on your mobile device or computer.



TYPICAL APPLICATIONS



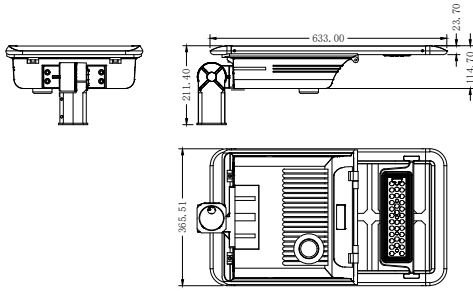
Urban and Rural Roads, Highways, Water Dikes, Bridges, Parks, Industrial Areas, City Squares, Residential Areas

SPECIFICATIONS

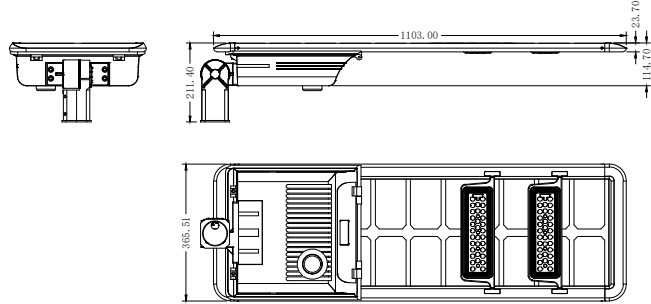
Model	PLIGALP10	PLIGALP15	PLIGALP20	PLIGALP25	PLIGALP30	PLIGALP35	PLIGALP40	PLIGALP45	PLIGALP50	PLIGALP60	
Optical Characteristics											
Rated Wattage	10W	15W	20W	25W	30W	35W	40W	45W	50W	60W	
Lumens	2100	3030	4000	4950	6060	7070	8120	9000	9900	120000	
System Efficacy	210Lm/W	202Lm/W	200Lm/W	198Lm/W	202Lm/W	202Lm/W	203Lm/W	200Lm/W	198Lm/W	200Lm/W	
Colour Temperature CCT	6500K / 5700K / 5000K / 4000K / 3000K										
CRI (Ra)	>70 (>80 Optional)										
Reported L70	>50,000 Hours										
Lens Optic Type	120° / Type II / Type III / Type IV										
Electrical Characteristics											
Input	12-24V										
Powerfactor	<0.95										
Solar Characteristics											
Solar Panel	30W/18V	30W/18V	40W/18V	40W/18V	50W/18V	50W/18V	60W/18V	60W/18V	70W/18V	80W/18V	
Photovoltaic Panel	Double Crystal Photovoltaic Panel										
Li-on Battery	12.8V/150W	12.8V/150W	12.8V/230W	12.8V/230W	12.8V/307W	12.8V/307W	12.8V/384W	12.8V/384W	12.8V/461W	12.8V/461W	
Charging Time	5.12 Hours	5.12 Hours	5.76 Hours	5.76 Hours	6.14 Hours	6.14 Hours	6.40 Hours	6.40 Hours	6.58 Hours	6.72 Hours	
Run Time (Full Power)	15 Hours										
Maximum Autonomy	7 Rainy Days										
Environment											
IP Rating	IP65										
Impact Rating	IK08										
Operating Temperature	-40°C To 50°C										
Product Material and Mounting											
Option 1	Universal Bracket										
Option 2	Wall Mount										
Option 3	Round Pole Mount										
Option 4	Square Pole Mount										
Product Material	Powder-Coated Die Cast Aluminium (Anti Corrosion Coating)										
Lens / Optics Material	PC Lens										
Dimensions and Weights											
Product Dimensions	633*365*211		793*365*211		948*365*211		1103*365*211		1263*365*211		1418*365*211
Product Weight	12.0KG		13.5KG		15.0KG		16.5KG		18.1KG		19.7KG
Packaging Dimensions	825*190*435		985*190*435		1140*190*435		1295*190*435		1455*190*435		1610*190*435
Gross Weight	14.4KG		16.2KG		18.0KG		19.9KG		21.8KG		23.6KG
Warranty & Certifications											
Warranty	3 Year Warranty										
Certifications	CE / RoHS / FCC										

DIMENSIONS

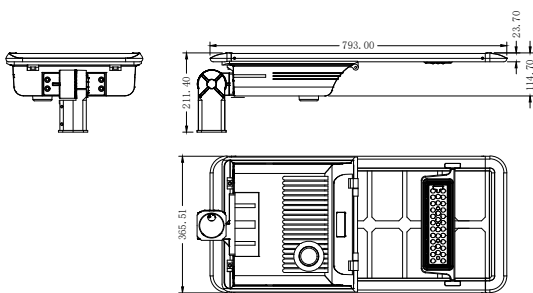
10/15W



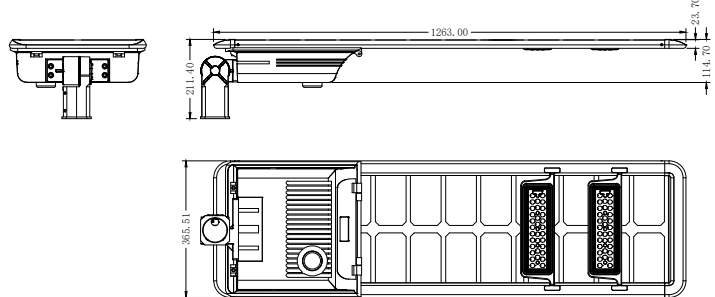
40/45W



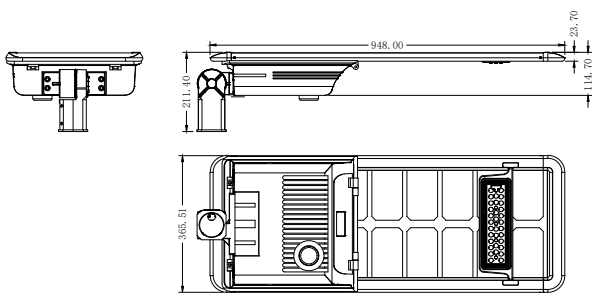
20/25W



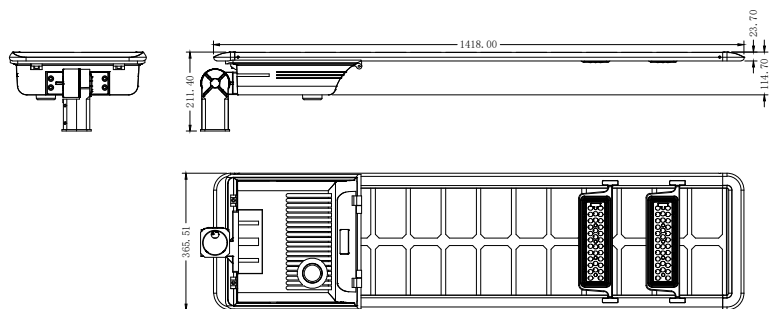
50W



30/35W



60W



PHOTOMETRIC DIAGRAMS

Photometrics & IES files available on request.

ORDERING METHODOLOGY

PLI-GALP	XX WATTS	XX CCT	XX LENS TYPE	X CONTROLS
	10W	65 (6500K)	01 (120°)	X (NONE)
	15W	50 (5000K)	02 (TYPE II)	M (MOTION SENSOR)
	20W	40 (4000K)	03 (TYPE III)	D (DIMMABLE)
	25W	30 (3000K)	04 (TYPE IV)	
	30W			
	35W	57 (5700K)		
	40W			
	45W			
	50W			
	60W			

ACCESSORIES

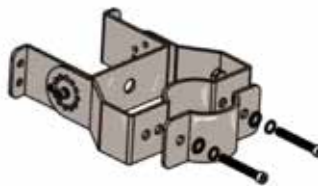
UNIVERSAL MOUNTING BRACKET	PLIGALP/UNI
WALL MOUNT BRACKET	PLIGALP/WM
ROUND POLE BRACKET	PLIGALP/RP
SQUARE POLE BRACKET	PLIGALP/SP
DIMMABLE 1-10V DRIVER	PLIGALP/D
MOTION SENSOR	PLIGALP/M
CCTV CAMERA	PLIGALP/CCTV
BIRD SCARER	PLIGALP/BS



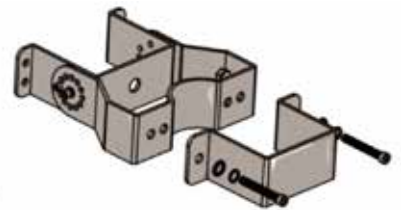
Universal Bracket



Wall Mount



Round Pole



Square Pole



SMART TECHNOLOGY

The Galactic Plus features a built in Smart Lighting Control System that can be controlled remotely via Bluetooth on your smart device and uploaded to a cloud platform. The Smart Controller can be used for Data + Project + IOT management.



SOLAR LED



GALACTIC MAX

GALACTIC MAX

The Galactic Max is the sister product to the Galactic Plus and is an impressive high wattage solar light, available for a wide range of applications. It features a low profile and bifacial solar panel design suitable for remote regions or a no-electric supply zone. The bilateral solar panels increase the overall conversion efficiency by 30%. The Galactic Max comes with a rotatable LED module, worry-free installation, and is virtually maintenance-free. Available with MPPT Intelligent Control, motion sensor, photocell and dimming options.



TYPICAL APPLICATIONS



Urban and Rural Roads, Highways, Water Dikes, Bridges, Parks, Industrial Areas, City Squares, Residential Areas

SPECIFICATIONS

Model	PLIGALM80	PLIGALM100
Optical Characteristics		
Rated Wattage	80W	100W
Lumens	14400	18000
System Efficacy	180Lm/W	
Colour Temperature CCT	6500K / 5700K / 5000K / 4000K / 3000K	
CRI (Ra)	>70 (>80 Optional)	
Reported L70	100,000 Hours	
Lens Optic Type	Type II / Type III	
Electrical Characteristics		
Input	12-24VDC	
Solar Characteristics		
Solar Panel	36V/130W	36V/160W
Photovoltaic Panel	Double Crystal Photovoltaic Panel	
Li-on Battery	25.6V30AH/768WH	25.6V36AH/922WH
Charging Time	6 Hours	
Run Time (Full Power)	10 Hours (36 Hours in Dimming Mode)	
Maximum Autonomy	3 Rainy Days	
Environment		
IP Rating	IP65	
Impact Rating	IK08	
Operating Temperature	-10°C To 50°C	
Product Material and Mounting		
Option 1	Post Top Mount (Spigot & Bracket)	
Product Material	Powder-Coated Die-Cast Aluminium (Anti Corrosion Coating)	
Lens / Optics Material	Polycarbonate Lens	
Dimensions and Weights		
Product Dimensions	1532*522*109	1812*522*109
Warranty & Certifications		
Warranty	3 Year Warranty	
Certifications	SAA / CE / RoHS / FCC	

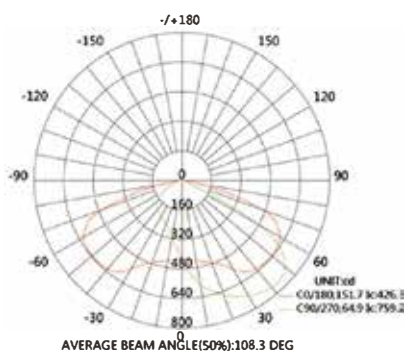
80W



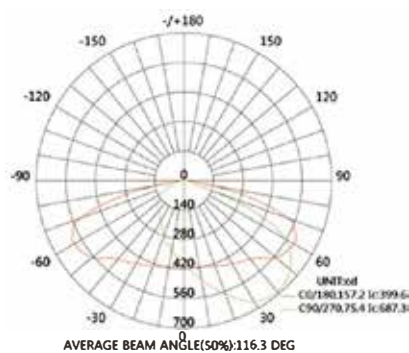
100W



PHOTOMETRIC DIAGRAMS



TYPE II



TYPE III

ORDERING METHODOLOGY

PLI-GALM

XX WATTS

80W
100W

XX CCT

65 (6500K)
57 (5700K)
50 (5000K)
40 (4000K)
30 (3000K)

XX LENS TYPE

T2 (TYPE II)
T3 (TYPE III)

X CONTROLS

X (NONE)
M (MOTION SENSOR)
P (PHOTOCELL)
D (DIMMABLE)

ACCESSORIES

POST TOP SPIGOT
MOTION SENSOR
PHOTOCELL
DIMMABLE
4KV SPD
INTELLIGENT CONTROL

PLIGALM/SP
PLIGALM/M
PLIGALM/P
PLIGALM/D
PLIGALM/4KV
PLIGALM/IC

SMART TECHNOLOGY

The Galactic Plus features a built in Smart Lighting Control System that can be controlled remotely via Bluetooth on your smart device and uploaded to a cloud platform. The Smart Controller can be used for Data + Project + IOT management.



SOLAR LED



SOLARNATOR

SOLARNATOR

The Solarnator is the newest solar fitting by Phoenix EMS. It is 360° horizontally adjustable and ±60° elevation angle adjustable. The Solarnator's 12 hour working mode is designed to last for 7 rainy days and an adopted mono-crystalline solar panel with a quick charge LiFePO4 battery. The spigot is fitted with a pluggable waterproof connector in all terminals which makes installation quick and easy.



TYPICAL APPLICATIONS



Urban and Rural Roads, Highways, Water Dikes, Bridges, Parks, Industrial Areas, City Squares, Residential Areas

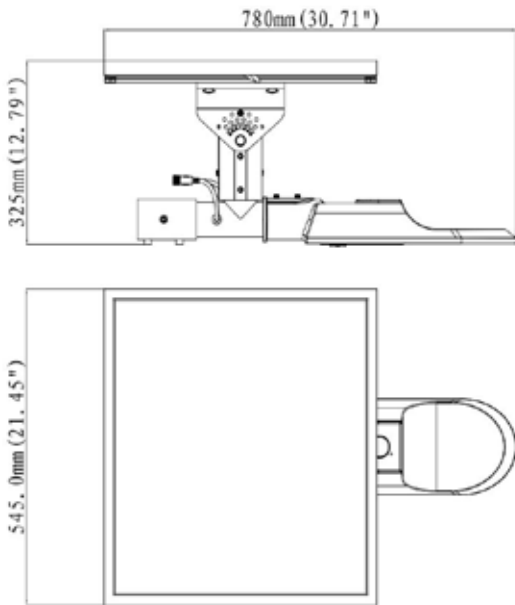
SPECIFICATIONS

Model	PLISOL20	PLISOL30
Optical Characteristics		
Rated Wattage	20W	30W
Lumens	3000	4500
System Efficacy	150Lm/W	
Colour Temperature CCT	5000K / 4000K / 3000K	
CRI (Ra)	>70 (>80 Optional)	
Reported L70	>50,000 Hours (Ta=30°@L70)	
Lens Optic Type	Type II	
Solar Characteristics		
Solar Panel	50W	90W
Photovoltaic Panel	Monocrystalline Photovoltaic Panel	
LiFePO4 Battery	25AH/160WH	36AH/230WH
Charging Time	6-7 Hours	
Run Time (Full Power)	12 Hours	
Maximum Autonomy	7 Rainy Days	
Environment		
IP Rating	IP66	
Impact Rating	IK08	
Operating Temperature	- 20°C To 50°C	
Product Material and Mounting		
Option 1	Side Entry (60MM Spigot + Bracket)	
Option 2	Post Top (60MM Spigot + Bracket)	
Product Material	Aluminium Alloy	
Lens / Optics Material	Polycarbonate Lens	
Dimensions and Weights		
Product Dimensions	Refer to dimensions below	
Product Weight	16.0KG	20.6KG
Gross Weight	19.8KG	24.9KG
Warranty & Certifications		
Warranty	5 Year Warranty	
Certifications	CE	

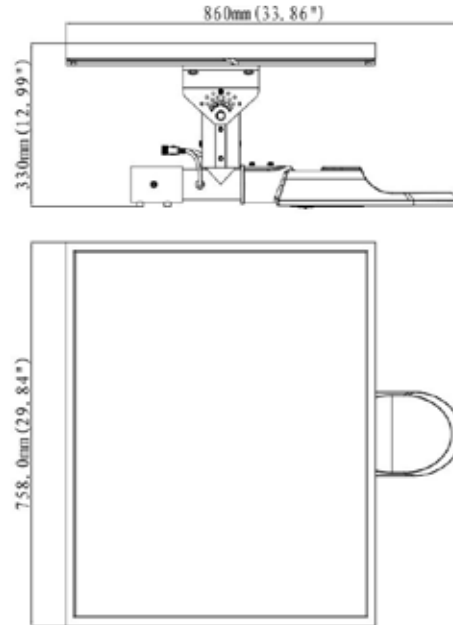
DIMENSIONS

SIDE ENTRY

20W

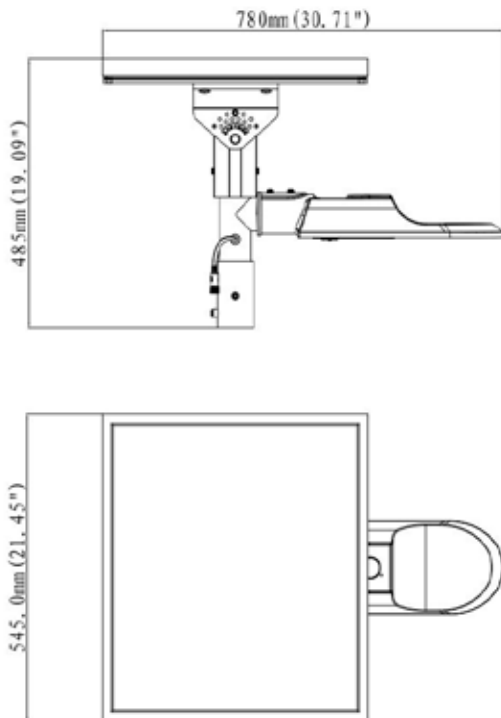


30W

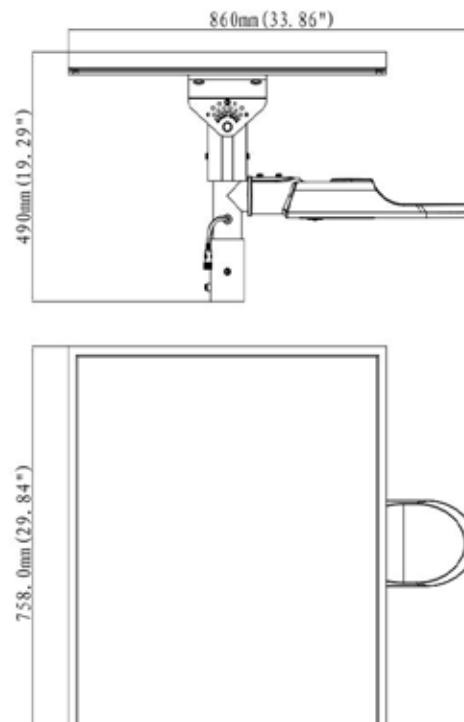


POST TOP

20W



30W



ORDERING METHODOLOGY

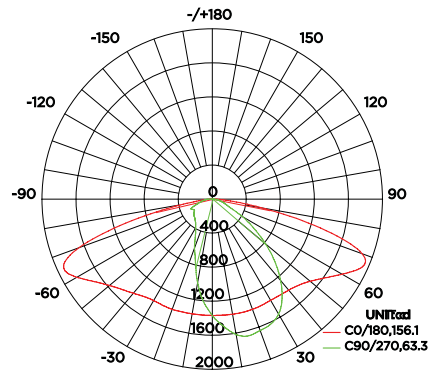
PLI-SOL

XX WATTS	XX CCT	X MOUNTING
20W 30W	50 (5000K) 40 (4000K) 30 (3000K)	S (SIDE ENTRY) P (POST TOP)

ACCESSORIES

- | | |
|-----------------------|-----------|
| 60MM SPIGOT + BRACKET | PLISOL/SP |
| LiFePO4 BATTERY | PLISOL/B |
| SOLAR PANEL | PLISOL/P |

PHOTOMETRIC DIAGRAMS



TYPE II

MOUNTING OPTIONS



POST TOP



SIDE ENTRY



SOLAR LED

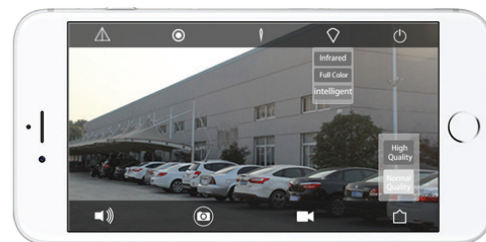


SOLAR SYSTEMS AND VALUE ADD SOLUTIONS

PHOENIX EMS SOLAR & VALUE-ADD SOLUTIONS

Our impressive range of Solar Lighting has a variety of value-add solutions available to help meet your requirements and create a customised product. Available for both indoor and outdoor applications.

- Patent Double MPPT Controller complete with a super charging function that dims automatically and functions even on rainy days to achieve 'all weather lighting'
- 4G Wifi Network Camera which features 3 mega-pixel lens and night vision distance of 60 meters
- HD 4G Wifi Network Camera which features full night vision and a high quality lens
- 4G Wifi Network mobile app allows you to have full control of camera and adjust according to your preferences



WALL PACK LIGHTS

SCOUT



WALL PACK LIGHTS

SCOUT

The Scout is a low profile and light weight LED Wall Pack luminaire which is designed for long life usage with minimal maintenance and great performance. It features a gray cast aluminum coating and has a high lumen output which makes it perfect for Security, Pathway and Perimeter lighting applications by brightening doorways and pedestrian walkways.



TYPICAL APPLICATIONS



Security, Pathway and Perimeter Lighting, Building Facades.

SPECIFICATIONS

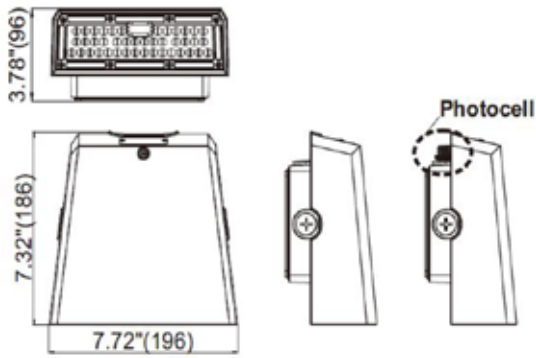
Model:	PLISCT10	PLISCT20	PLISCT30	PLISCT40	PLISCT70
Optical Characteristics					
Rated Wattage	10W	20W	30W	40W	70W
Lumens	1250	2500	3750	5000	8750
System Efficacy	125Lm/W				
Colour Temperature CCT	5000K (4000K)				
CRI (Ra)	>70				
Reported L70	>50,000 Hours				
Lens Optic Type	30° x 150°			45° x 150°	
Electrical Characteristics					
Input	100-240VAC				
Frequency	50Hz				
Powerfactor	<0.90				
Total Harmonic Distortion	10%				
Environment					
IP Rating	IP66				
Impact Rating	IK08				
Operating Temperature	-30°C To 45°C				
Product Material and Mounting					
Option 1	Surface Mount				
Product Material	Aluminum				
Lens / Optics Material	PC Lens				
Dimensions and Weights					
Product Dimensions	196*96*186			282*125*205	
Product Weight	3.3KG			6.5KG	
Packaging Dimensions	505*395*230 (Ctn 6)			330*155*235 (Ctn 1)	
Gross Weight	19.8KG			7.0KG	
Warranty and Certifications					
Warranty	5 Year Warranty				
Certifications	CE / ROHS				



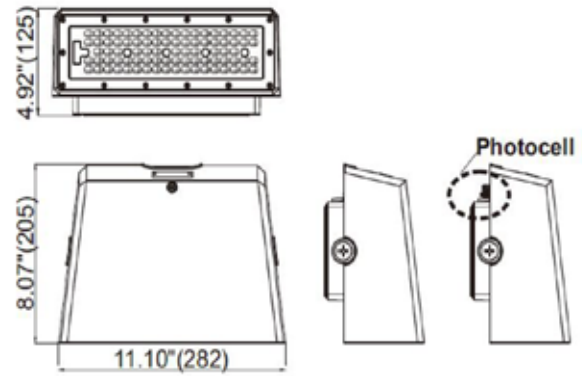
WALL PACK LIGHTS

DIMENSIONS

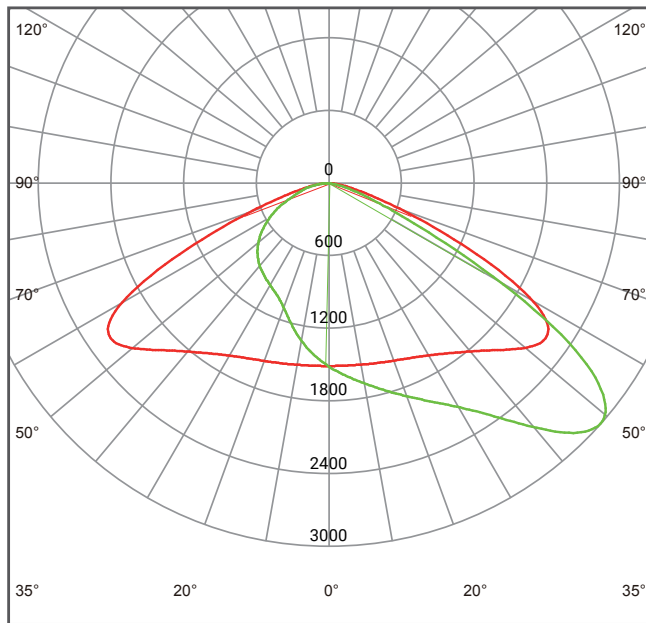
10W/20W/30W



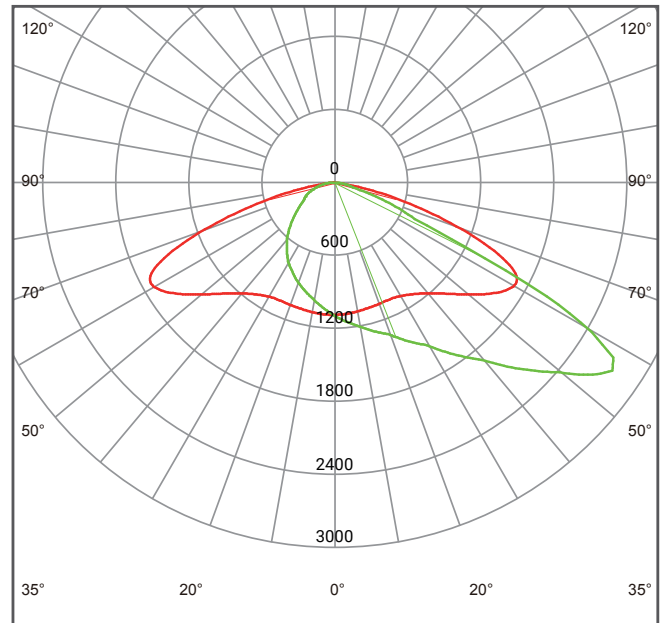
40W/70W



PHOTOMETRIC DIAGRAMS



10W/20W/30W
30° x 150°



40W/70W
45° x 150°

WALL PACK LIGHTS

ORDERING METHODOLOGY

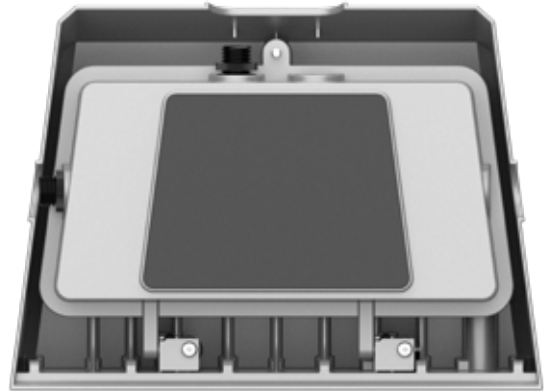
PLI-SCT

XX
WATTS

- 10W
- 20W
- 30W
- 40W
- 70W

XX
CCT

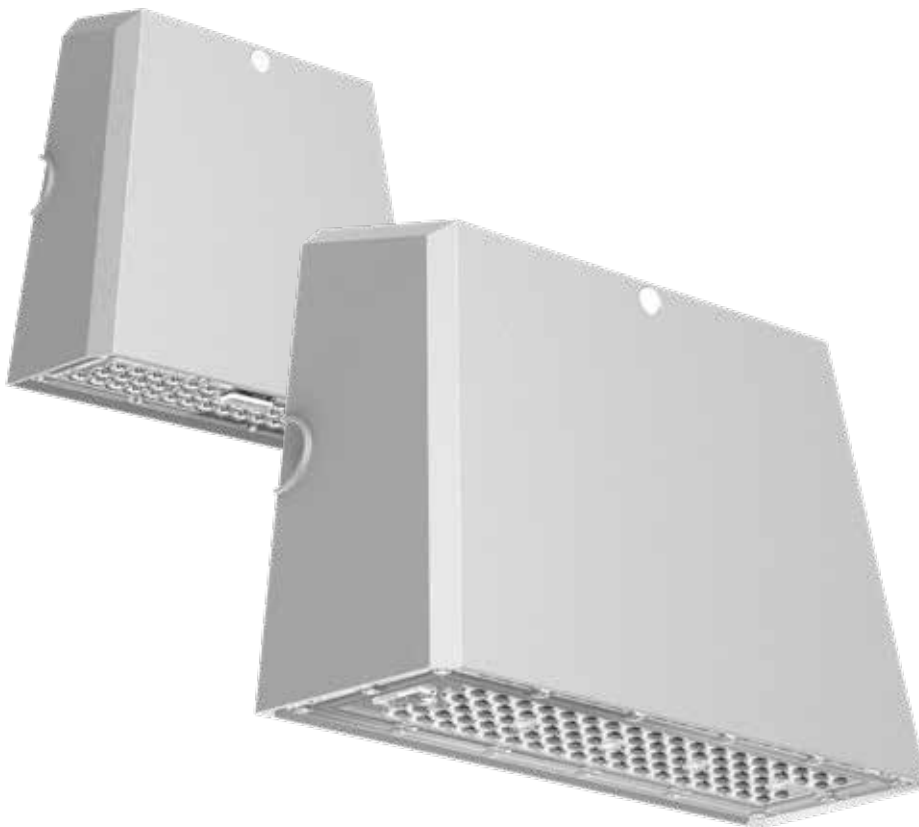
- 50 (5000K)
- 40 (4000K)



ACCESSORIES

SURFACE MOUNT BRACKET

PLISCT/SM



HAZARDOUS AREA



PETREL

HAZARDOUS AREA

PETREL

The Condor is an LED floodlight best suited to industrial environments. It features a powder-coated marine grade aluminium die cast body and PC lens. It is particularly suited to harsh environmental conditions where high temperatures and harsh chemical are present.



TYPICAL APPLICATIONS

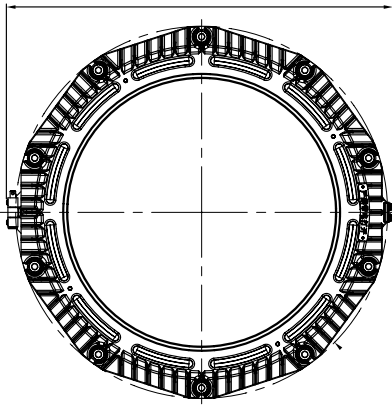


Petroleum Industry, Crude Oil, Metallurgical, Power Generation & Transmission, Railway, Tunnels, Chemical, Offshore Rigs

SPECIFICATIONS

Model:	PLIPET100	PLIPET120	PLIPET150	PLIPET200	PLIPET240	PLIPET300
Optical Characteristics						
Rated Wattage	100W	120W	150W	200W	240W	300W
Lumens	17640	17640	22050	29400	35280	44100
System Efficacy	140Lm/W					
Colour Temperature CCT	4000K (3000K / 5000K / 5700K Optional)					
CRI (Ra)	>70					
Reported L70	>50,000 Hours					
Lens Optic Type	60° / 80° / 120°					
Electrical						
Input	100-277VAC (347-480VAC / 20-30VAC/DC Optional)					
Frequency	50/60Hz					
Powerfactor	>0.98					
Total Harmonic Distortion	<10%					
Environment						
IP Rating	IP66					
Impact Rating	IK10					
Operating Temperature	-40°C To 55°C					
Product Material and Mounting						
Option 1	Stanchion Mount					
Option 2	Pole Mount					
Option 3	Ceiling Mount					
Option 4	Pendant Mount					
Option 5	Pipe Mount					
Product Material	Die-Casting Aluminium Alloy					
Lens / Optics Material	Tempered Glass					
Dimensions and Weights						
Product Dimensions	330*197			415*197		
Product Weight	11.0KG			14.0KG		
Packaging Dimensions	440*440*340			440*440*340		
Gross Weight	11.5KG			14.5KG		
Warranty & Certifications						
Warranty	5 Year Warranty					
Certifications	IECEx / CE / RoHS					
Classification	Group II / Zone 1 & 21 / Zone 2 & 22					
Rating	Gas: II 2 G Ex db IIC T4/T5 Gb / Dust: II 2 D Ex tb IIIC T115°C/105°/T95°C Db IP66					

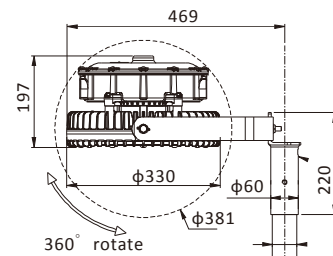
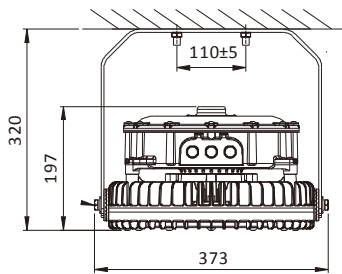
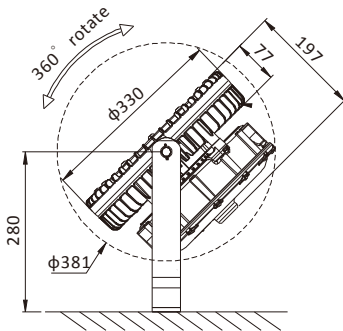
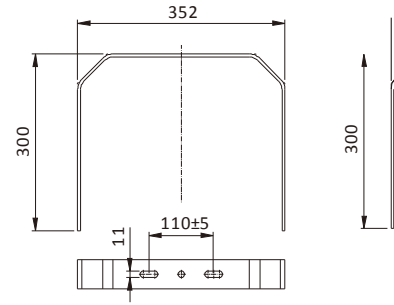
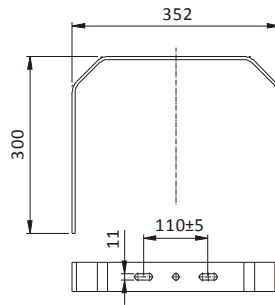
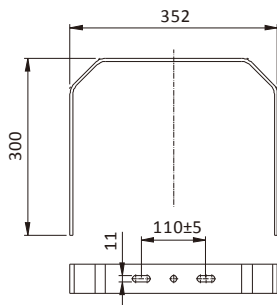
DIMENSIONS - 100W/120W/150W



Stanchion Mount

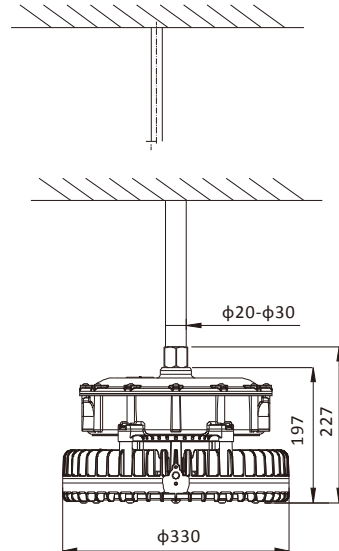
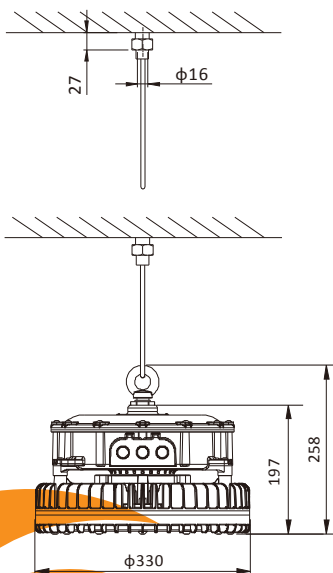
Ceiling Mount

Pole Mount

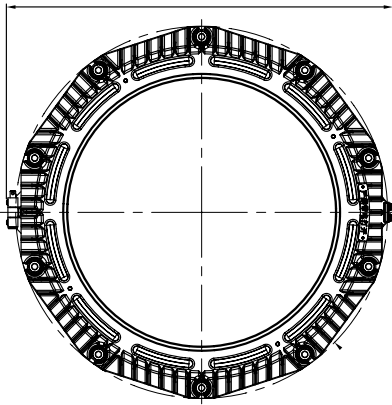


Pendant Mount

Pipe Mount



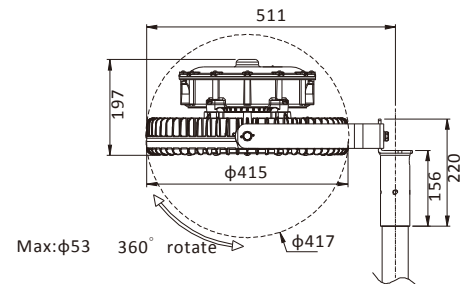
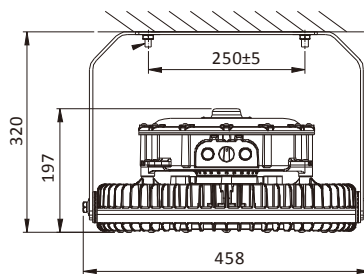
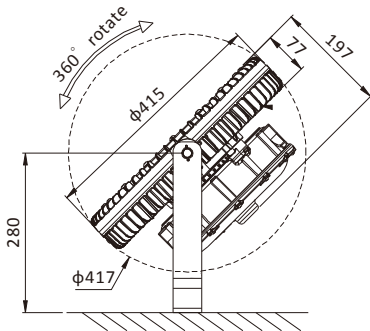
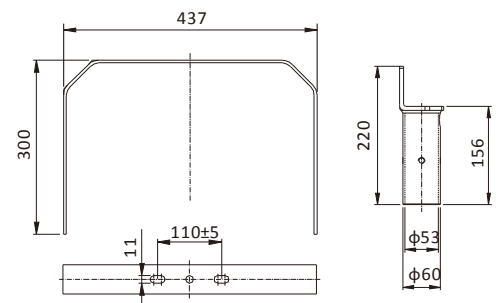
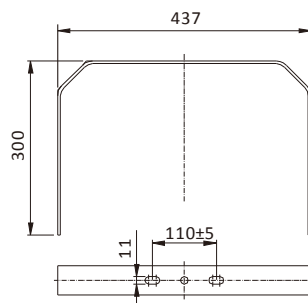
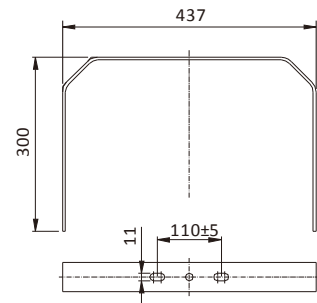
DIMENSIONS - 200W/240W/300W



Stanchion Mount

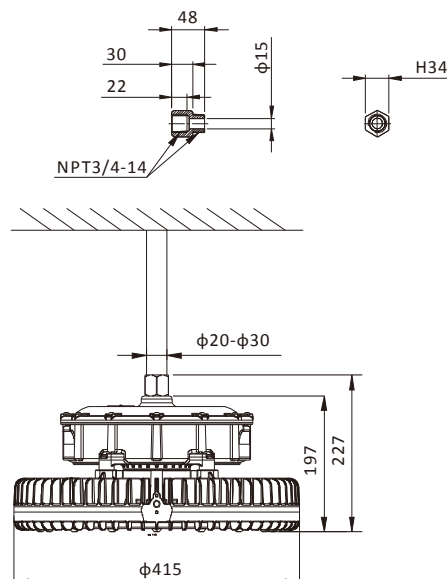
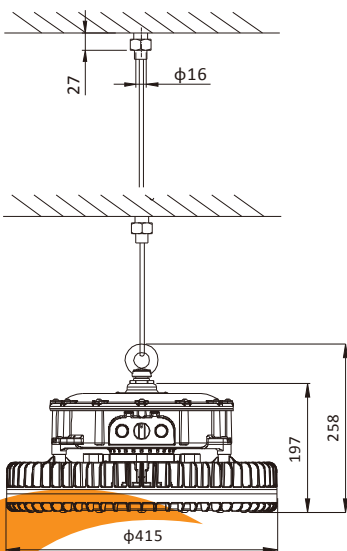


Ceiling Mount

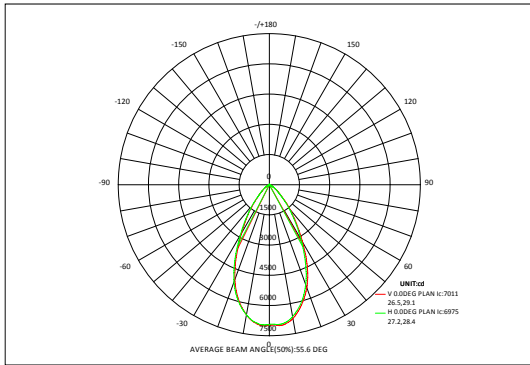


Pendant Mount

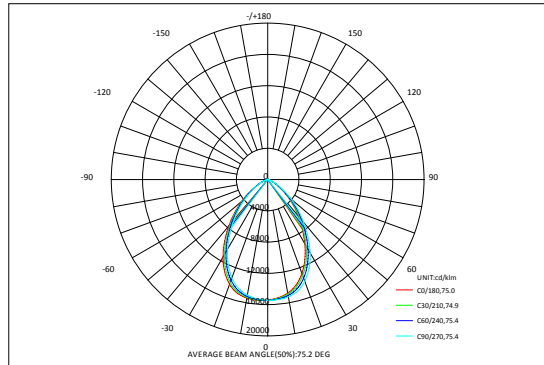
Pipe Mount



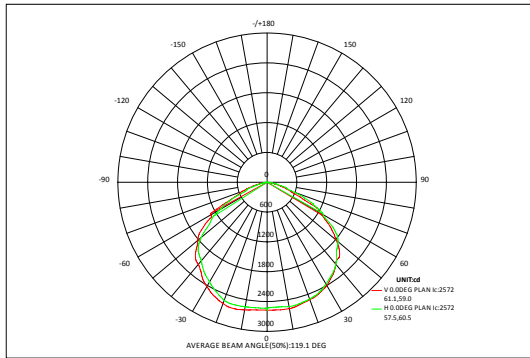
PHOTOMETRIC DIAGRAMS



60°



80°



120°



ORDERING METHODOLOGY

PLI-PET

XXX WATTS

- 100W
- 120W
- 150W
- 200W
- 240W
- 300W

XX CCT

- 57 (5700K)
- 50 (5000K)
- 40 (4000K)
- 30 (3000K)

XX BEAM ANGLE

- 01 (60°)
- 02 (80°)
- 03 (120°)

XX VOLTAGE

- ST (100-277VAC)
- D (347-480VAC)
- E (20-30VAC/DC)

XX OPTIONS

- ST (STANDARD)
- DA (DALI DIMMING)
- ON (EMERGENCY TYPE)
- S (SENSOR)
- V (0-10V DIMMING)

ACCESSORIES

- Ceiling Mount Bracket PLIPET/CM
- Stanchion Wall Mount Bracket PLIPET/WM
- Pole Mount Bracket PLIPET/PM
- Pipe Clamp PLIPET/PC
- Eyebolt Pendant Mount PLIPET/EB



HAZARDOUS AREA



CHIEF

CHIEF

The Chief is an excellent choice for Hazardous Area Lighting and is suitable for a wide range of applications. It features a low-profile, lightweight design and has an impact resistant polycarbonate clear or diffused lens. The Chief's light distribution will project uniform illumination throughout the entire space and it's low maintenance costs reduce power consumption by over 50%.



- Environmentally Friendly 50,000 Hours Lifetime
- Superior colour rendering index compared to HPS, LPS or MV
- Low temperature applications to -40°C and high temperature up to 55°C
- Temperature compensation technology for longer life

TYPICAL APPLICATIONS

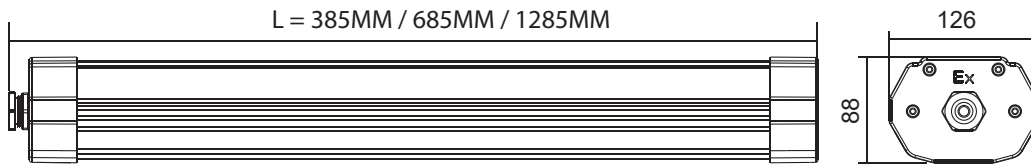


Coal & Metalliferous Mine Process Plants, Quarries, Campsite Area Lighting, General Area Lighting Car Parks, Conveyors, Pedestrian Access Road Ways, Stacker/Reclaimers, Stairwells, Tunnels, Walkways, Bulkheads.

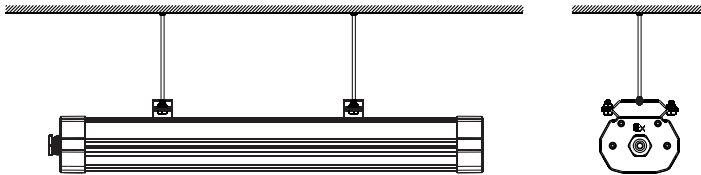
SPECIFICATIONS

Model:	PLIChi24	PLIChi36	PLIChi36	PLIChi50	PLIChi60	PLIChi72	PLIChi80
Optical Characteristics							
Rated Wattage	24W	36W	36W	50W	60W	72W	80W
Lumens	2640	3960	3960	5500	6600	7920	8800
System Efficacy	110Lm/W						
Colour Temperature CCT	5000K (6000K / 4000K / 3000K)						
CRI (Ra)	>75						
Reported L70	>50,000 Hours						
Lens Optic Type	180°						
Electrical Characteristics							
Input	100-277VAC						
Frequency	50/60Hz						
Power Factor	>0.95						
Total Harmonic Distortion	N/A						
Environment							
IP Rating	IP66						
Impact Rating	IK10						
Operating Temperature	-40°C To 55°C						
Product Material and Mounting							
Option 1	Ceiling Mount A/B						
Option 2	Wall Mount A/B						
Option 3	Pendant Pole Mount						
Option 4	Pendant Chain Mount						
Option 5	Beam Clamp Mount						
Option 6	Pole Mount						
Product Material	Aluminium Housing						
Lens/Optics Material	Clear Lens or Diffused Lens						
Dimensions and Weights							
Product Dimensions	385*126*88	685*126*88	1285*126*88				
Product Weight	2.8KG	4.5KG	7.5KG				
Gross Weight	4.0KG	6.0KG	9.7KG				
Warranty and Certifications							
Warranty	5 Year Warranty						
Certifications	IECEX / CE / RoHS						
Classification	Zone 1 & 21 / Zone 2 & 22						
Rating	IECEX/Gas: II 2 G Ex eb mb op is IIC T5 T6 Gb IECEX/Dust: II 2 D Ex op is tb IIIC T80°C Db						

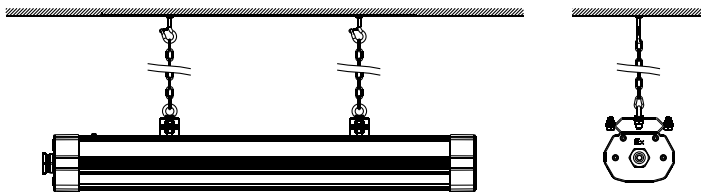
DIMENSIONS



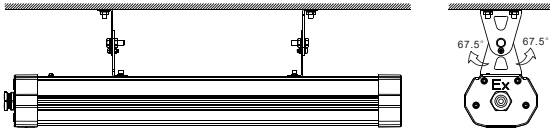
PENDANT POLE MOUNT



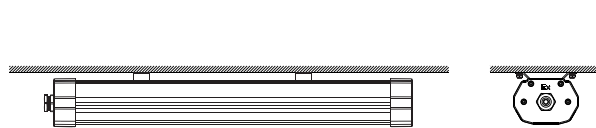
PENDANT CHAIN MOUNT



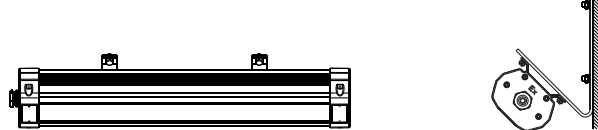
SS CEILING MOUNT A



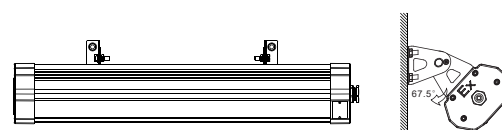
SS CEILING MOUNT B (ADJUSTABLE ANGLES)



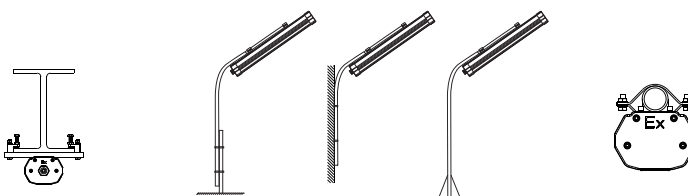
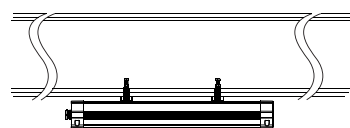
WALL MOUNT A



WALL MOUNT B (ADJUSTABLE ANGLES)



BEAM CLAMP MOUNT



POLE MOUNT

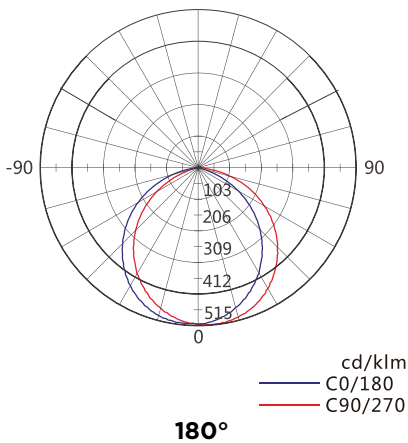
ORDERING METHODOLOGY

PLI-CHI	XX WATTS	XX CCT	XX DIMENSIONS	X LENS TYPE	XX FUNCTION
	24W 36W 50W 60W 72W 80W	60 (6000K) 50 (5000K) 40 (4000K) 30 (3000K)	02 (685*126*88/36W) 03 (1285*126*88/36W)	C (CLEAR LENS) F (DIFFUSED LENS)	ST (STANDARD) EM (EMERGENCY)

ACCESSORIES

- | | |
|---|---|
| <ul style="list-style-type: none"> PENDANT POLE MOUNT PENDANT CHAIN MOUNT CEILING MOUNT A CEILING MOUNT B (ADJUSTABLE ANGLES) WALL MOUNT A WALL MOUNT B (ADJUSTABLE ANGLES) BEAM CLAMP MOUNT POLE MOUNT MEANWELL DRIVER UPGRADE 24W/36W/50W MEANWELL DRIVER UPGRADE 60W/72W/80W MARINE PAINTING END TO END WIRING | <ul style="list-style-type: none"> PLICHI/PP PLICHI/PC PLICHI/CM1 PLICHI/CM2 PLICHI/WM1 PLICHI/WM2 PLICHI/BC PLICHI/PM PLICHI/MW1 PLICHI/MW2 PLICHI/MP PLICHI/E2E |
|---|---|

PHOTOMETRIC DIAGRAMS



HAZARDOUS AREA



FALCON X

FALCON X

The Falcon X is a corrosion resistant luminaire designed for use in hazardous areas that are subject to flammable liquids, gases, vapors and combustible dusts. It features a corrosion resistant GRP body and polycarbonate diffuser with a central locking device that disconnects the supply when the luminaire is opened.



TYPICAL APPLICATIONS



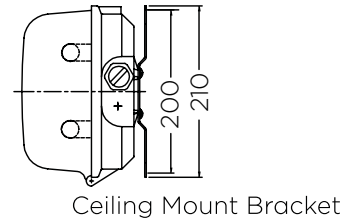
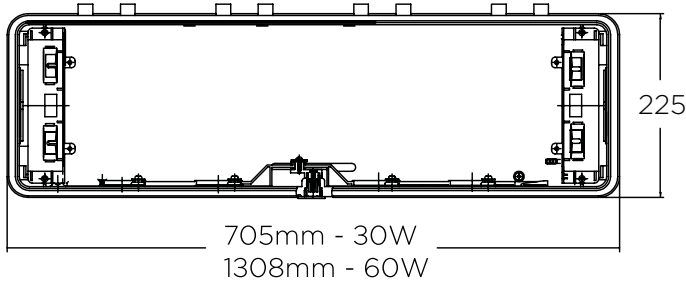
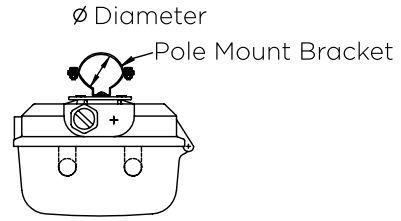
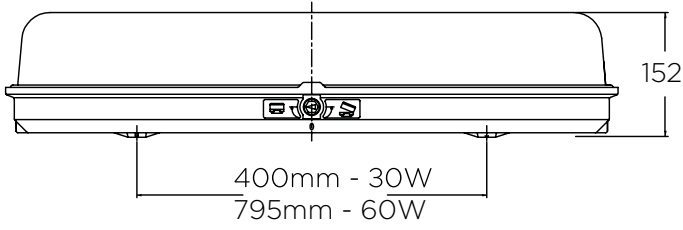
Mining, MIA (Mining Infrastructure Area), Coal, Open Cuts, Metalliferous, Iron Ore, Industrial, Processing Plants, Materials Handling, Lithium Processing, Power Generation, Energy & Utilities, Water & Waste Water, Ports, Wharfs & Waterways, Chemical & Processing

SPECIFICATIONS

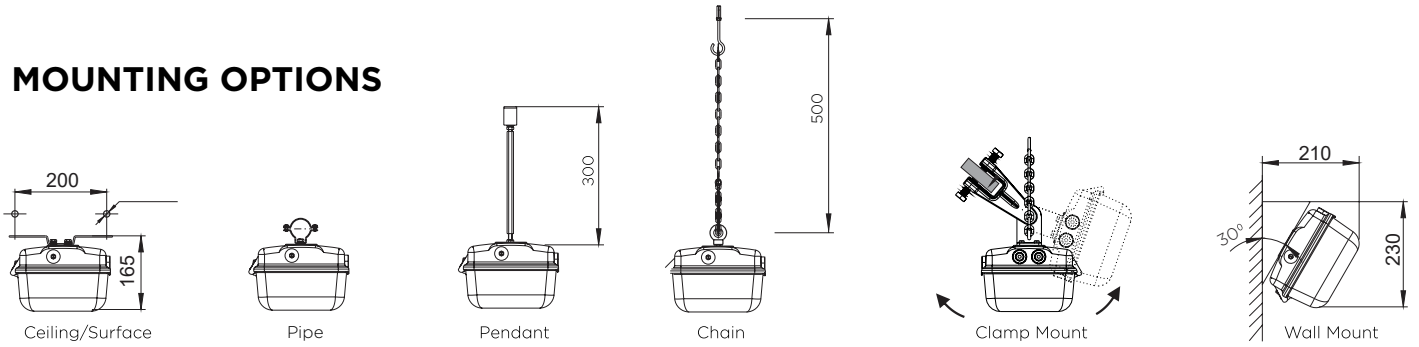
Model:	PLIFALX30	PLIFALX60
Optical Characteristics		
Rated Wattage	30W	60W
Lumens	3000	4800
System Efficacy	100Lm/W	80Lm/W
Colour Temperature CCT	5700K	
CRI (Ra)	>75	
Reported L70	> 50,000 Hours	
Lens Optic Type	PC	
Electrical Characteristics		
Input	100-250V AC	
Frequency	50Hz	
Powerfactor	>0.95	
Total Harmonic Distortion	20%	
Environment		
IP Rating	IP66	
Impact Rating	IK10	
Operating Temperature	-20°C To 55°C	
Product Material and Mounting		
Option 1	Adjustable Clamp Mount	
Option 2	Chain Mount	
Option 3	Adjustable Bracket	
Option 4	Pipe Mount	
Option 5	Ceiling Mount	
Option 6	Wall Mount	
Product Material	Full Plastic Explosion Proof	
Lens / Optics Material	PC Diffuser	
Dimensions and Weights		
Product Dimensions	705*225*152	1308*225*152
Product Weight	5.5KG	9.1KG
Packaging Dimensions	748*272*195	1358*272*195
Gross Weight	6.1KG	10.0KG
Warranty and Certifications		
Warranty	18 Month Warranty	
Certifications	IECEX	
Classifications	Zone 1 & 21 / Zone 2 & 22	
Rating	IECEX/Gas: Ex db eb mb op is q II C T6/T5 Gb IECEX/Dust: Ex tb III C T80°C/ T85°C Db ATEX/Gas: II 2 G D Ex db eb mb op is q II C T6/T5 Gb Dust: Ex tb III C T80°C/ T85°C Db	

HAZARDOUS AREA

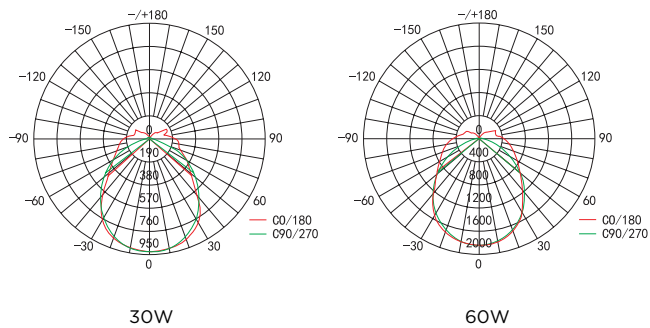
DIMENSIONS



MOUNTING OPTIONS



PHOTOMETRIC DIAGRAMS



ORDERING METHODOLOGY

PLI-FALX

XX
WATTS

30W
60W

XX
FUNCTION

ST (STANDARD)
EM (EMERGENCY)

X
SURGE PROTECTION

X (NONE)
F (WITH FUSE)

ACCESSORIES

PENDANT MOUNT PLIFALX/PD
CHAIN MOUNT PLIFALX/CH
ADJUSTABLE CLAMP BRACKET PLIFALX/ADJ
ADJUSTABLE CLAMP BRACKET STAINLESS STEEL PLIFALX/ADJ-SS
PIPE MOUNT 42MM PLIFALX/PM42
PIPE MOUNT STAINLESS STEEL 42MM PLIFALX/PM42-SS
PIPE MOUNT 48MM PLIFALX/PM48
PIPE MOUNT STAINLESS STEEL 48MM PLIFALX/PM48-SS
PIPE MOUNT 60MM PLIFALX/PM60
PIPE MOUNT STAINLESS STEEL 60MM PLIFALX/PM60-SS
CEILING MOUNT BRACKET PLIFALX/CM
CEILING MOUNT BRACKET STAINLESS STEEL PLIFALX/CM-SS
WALL MOUNT BRACKET FOR POLE MOUNT PLIFALX/WM



HAZARDOUS AREA



DEFENDER

DEFENDER

The Defender is a LED luminaire designed for installation where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambient temperatures can be expected. The Defender can be used in locations made hazardous by the presence of flammable vapors, gases or combustible dusts as defined by the NEC and IEC. The Defender is ideal for retrofit of existing HPS/MH and offers higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.



TYPICAL APPLICATIONS



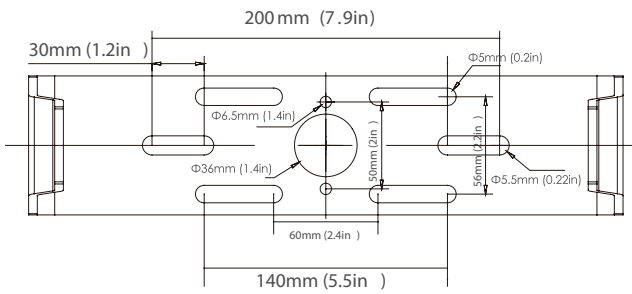
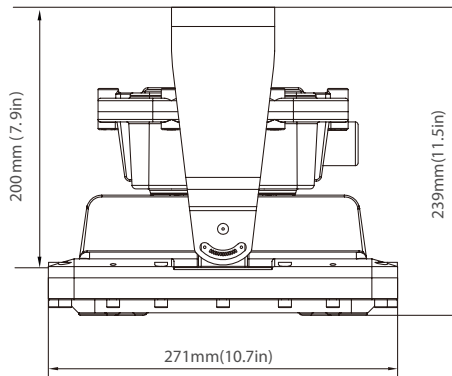
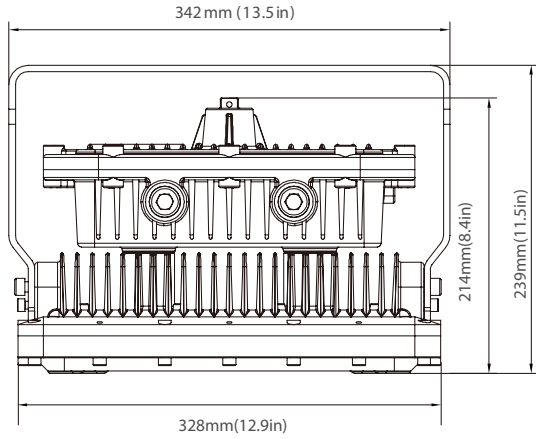
Coal & Metalliferous Mine Process Plants, Quarries, Campsite Area Lighting, General Area Lighting Car Parks, Conveyors, Pedestrian Access Road Ways, Stacker/Reclaimers, Stairwells, Tunnels, Walkways, Bulkheads.

SPECIFICATIONS

Model:	PLIDEF80	PLIDEF100	PLIDEF150
Optical Characteristics			
Rated Wattage	80W	100W	150W
Lumens	10400	13000	19500
System Efficacy	130Lm/W		
Colour Temperature CCT	5000K (4000K / 3000K)		
CRI (Ra)	>70		
Reported L70	>50,000 Hours		
Lens Optic Type	25° / 60° / 120°		
Electrical Characteristics			
Input	AC100-240/277		
Frequency	50/60Hz		
Powerfactor	>0.95		
Total Harmonic Distortion	20%		
Environment			
IP Rating	IP66		
Impact Rating	IK10		
Operating Temperature	-25°C To 50°C		
Product Material and Mounting			
Option 1	Pole Mount		
Option 2	Ceiling Mount		
Option 3	Angle Wall Mount		
Option 4	Pendant Mount		
Product Material	Copper Free Aluminium		
Lens / Optics Material	Tempered Glass Lens		
Dimensions and Weights			
Product Dimensions	328*271*239		
Product Weight	15.2KG	15.3KG	15.5KG
Packaging Dimensions	412*372*270		
Gross Weight	16.2KG	16.3KG	16.5KG
Warranty and Certifications			
Warranty	5 Year Warranty		
Certifications	IECEX / CE / RoHS		
Classification	Zone 1 & 21		
Rating	IECEX/Gas: Ex d IIB T6 Gb IECEX/Dust: Ex tb IIIC T85°C Db		

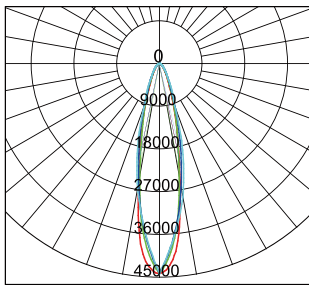
HAZARDOUS AREA

DIMENSIONS

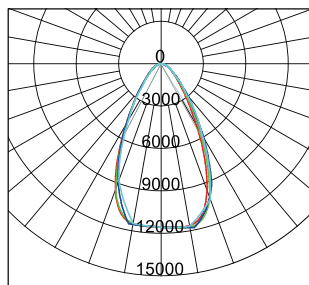


PHOTOMETRIC DIAGRAMS

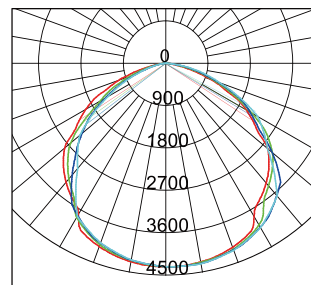
25 Degree



60 Degree



120 Degree



HAZARDOUS AREA

ORDERING METHODOLOGY

PLI-DEF

XXX WATTS

80W
100W
150W

XX CCT

50 (5000K)
40 (4000K)
30 (3000K)

XX BEAM ANGLE

01 (25°)
02 (60°)
03 (120°)

XX MOUNTING

PM (POLE MOUNT)
CM (CEILING MOUNT)
WM (ANGLE WALL MOUNT)
PD (PENDANT MOUNT)

ACCESSORIES

POLE MOUNT
CEILING MOUNT
ANGLE WALL MOUNT
PENDANT MOUNT
SAFETY CHAIN
GLARE SHIELD
WIRE GUARD
10KV SURGE PROTECTOR

PLIDEF/PM
PLIDEF/CM
PLIDEF/WM
PLIDEF/PD
PLIDEF/SC
PLIDEF/GS
PLIDEF/WG
PLIDEF/10KV



HAZARDOUS AREA



WARRIOR

HAZARDOUS AREA

WARRIOR

The Warrior is a new generation LED linear floodlight designed for Zone 1 & 21 hazardous areas. It features a low profile design allowing installation in work areas with low ceiling height. The Warrior has a UV stable and impact resistant clear or diffused PC lens (Standard) to minimise glare and a wiring access cover with captive screws for end to end feed through wiring.



TYPICAL APPLICATIONS



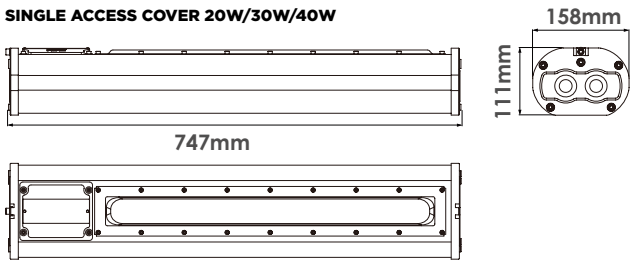
Coal & Metalliferous Mine Process Plants, Quarries, Campsite Area Lighting, General Area Lighting Car Parks, Conveyors, Pedestrian Access Road Ways, Stacker/Reclaimers, Stairwells, Tunnels, Walkways Bulkheads.

SPECIFICATIONS

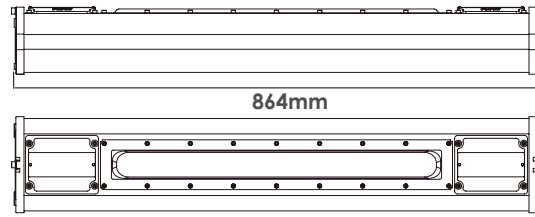
Model	PLIWAR20	PLIWAR30	PLIWAR40	PLIWAR50	PLIWAR60	PLIWAR80	PLIWAR100
Optical Characteristics							
Rated Wattage	20W	30W	40W	50W	60W	80W	100W
Lumens	2400	3600	4800	6000	7200	9600	12000
System Efficacy	120Lm/W						
Colour Temperature CCT	5700K (5000K / 4000K)						
CRI (Ra)	>70						
Reported L70	>100,000 Hours at 25° Ambient						
Lens Optic Type	110°						
Electrical Characteristics							
Input	AC120-277V						
Frequency	50Hz (Optional 60Hz)						
Powerfactor	>0.95						
Total Harmonic Distortion	<20%						
Environment							
IP Rating	IP66						
Impact Rating	IK10						
Operating Temperature	-40°C To 55°C						
Product Material and Mounting							
Option 1	Ceiling Mount Bracket						
Option 2	Eyebolt						
Option 3	Wall Mount						
Option 4	Pipe Clamp Mount						
Product Material	Marine Grade Aluminium						
Lens / Optics Material	PC Lens						
Dimensions and Weights							
Product Dimensions	Refer to dimensions below						
Product Weight	6.7KG			9.9KG			
Packaging Dimensions	920*220*170			1505*220*170			
Gross Weight	7.7KG			10.9KG			
Warranty and Certifications							
Warranty	5 Year Warranty						
Certifications	IECEX / CE / RoHS						
Classification	Zone 1 & 21						
Rating	IECEX/Gas: Ex db eb mb IIC T6 Gb IECEX/Dust: Ex tb IIIC T80°C Db Gas: II 2 G Ex db eb mb op is IIC T6 Gb Dust: II 2 D Ex op is tb IIIC T80°C Db						

DIMENSIONS

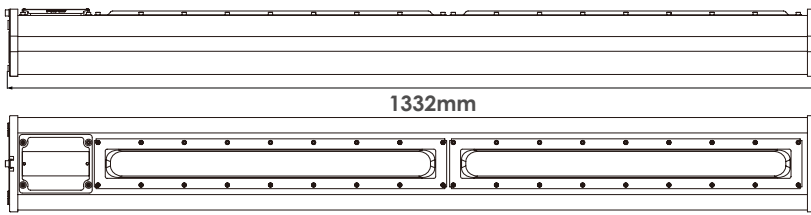
SINGLE ACCESS COVER 20W/30W/40W



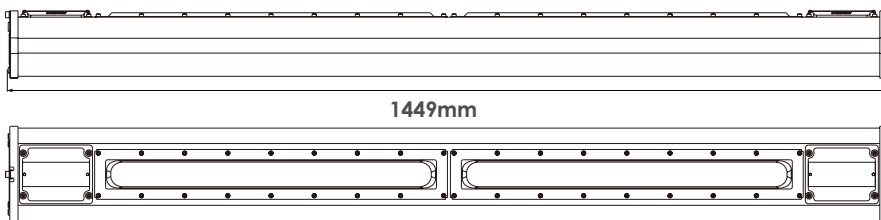
TWIN ACCESS COVER 20W/30W/40W



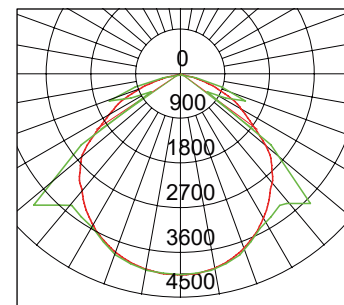
SINGLE ACCESS COVER 40W/50W/60W/80W/100W



TWIN ACCESS COVER 40W/50W/60W/80W/100W



PHOTOMETRIC DIAGRAMS



110°



ORDERING METHODOLOGY

PLI-WAR

XXX WATTS

- 20W
- 30W
- 40W
- 50W
- 60W
- 80W
- 100W

XX CCT

- 57 (5700K)
- 50 (5000K)
- 40 (4000K)

XX FUNCTION

- ST (STANDARD)
- EM (EMERGENCY)

X DIMENSIONS

- A (747*158*111 SINGLE ACCESS COVER 20W/30W/40W)
- B (864*158*111 TWIN ACCESS COVER 20W/30W/40W)
- C (1332*158*111 SINGLE ACCESS COVER 50W/60W/80W/100W)
- D (1332*158*111 TWIN ACCESS COVER 50W/60W/80W/100W)

ACCESSORIES

- LOW CEILING MOUNT BRACKET
- HIGH CEILING MOUNT BRACKET
- EYEBOLT
- WALL MOUNT SWIVEL BRACKET
- WALL MOUNT OUTREACH BRACKET 0.6M
- WALL MOUNT OUTREACH BRACKET 0.6M
- WALL MOUNT OUTREACH BRACKET 1.2M
- PIPE CLAMP BRACKET 40-45MM
- PIPE CLAMP BRACKET 47-51MM
- PIPE CLAMP BRACKET 54-57MM
- PIPE CLAMP BRACKET 58-62MM

- PLIWAR/LCM
- PLIWAR/HCM
- PLIWAR/EB
- PLIWAR/WM
- PLIWAR/WMO60
- PLIWAR/WMO60
- PLIWAR/WM120
- PLIWAR/PC40
- PLIWAR/PC47
- PLIWAR/PC54
- PLIWAR/PC58

LOW CEILING MOUNT BRACKET



HIGH CEILING MOUNT BRACKET



EYEBOLT MOUNT



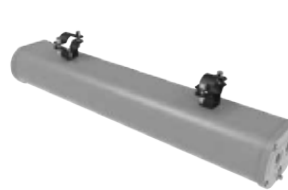
WALL MOUNT SWIVEL BRACKET



WALL MOUNT OUTREACH BRACKET



POLE MOUNT CLAMP



MOBILE MACHINERY



SPHINX SERIES

SPHINX 27 - 120

The Sphinx is an IP69 waterproof mobile machinery floodlight and is designed for heavy duty machinery in industrial environments. It features a 9-32 VDC operating voltage range, 30 degree spot beam (60 degree flood beam are available), stainless steel adjustable mounting brackets and is rubber gasket vibration resistant.



TYPICAL APPLICATIONS



Draglines, Shovels, Dozers, Trucks, Forklifts, Water Carts, Wheel Loaders, Light Vehicle Fleet, Mobile Machinery, Front End Loaders, Drill Rigs, Lighting Towers

SPECIFICATIONS

Model	PLISPX27	PLISPX40	PLISPX50	PLISPX60	PLISPX90	PLISPX100	PLISPX120
Optical Characteristics							
Rated Wattage	27W	40W	50W	60W	90W	100W	120W
Lumens	2430	3600	4500	5400	8100	9000	10800
System Efficacy	90Lm/W						
Colour Temperature CCT	6000K						
CRI (Ra)	>70						
Reported L70	> 50,000 Hours						
Lens Optic Type	30° Spot/60° Flood						
Electrical Characteristics							
Input	9-32V DC						
Frequency	N/A						
Power factor	>0.95						
Environment							
IP Rating	IP69K						
Impact Rating	N/A						
Operating Temperature	-20°C To 50°C						
Product Material and Mounting							
Option 1	U Bracket						
Product Material	Cast Aluminium Body						
Lens / Optics Material	PC Lens						
Dimensions and Weights							
Product Dimensions	108*72*139		125*103*139		152*115*141		188*135*167
Product Weight	2.0KG						
Packaging Dimensions	118*80*150		135*115*150		165*125*150		210*145*180
Gross Weight	2.5KG						
Warranty and Certifications							
Warranty	2 Year Warranty						
Certifications	CE / RoHS						



DIMENSIONS

SPHINX-27

DIMENSIONS

PHOTOMETRIC DIAGRAMS

SPHINX-40

DIMENSIONS

PHOTOMETRIC DIAGRAMS

SPHINX-90

DIMENSIONS

PHOTOMETRIC DIAGRAMS

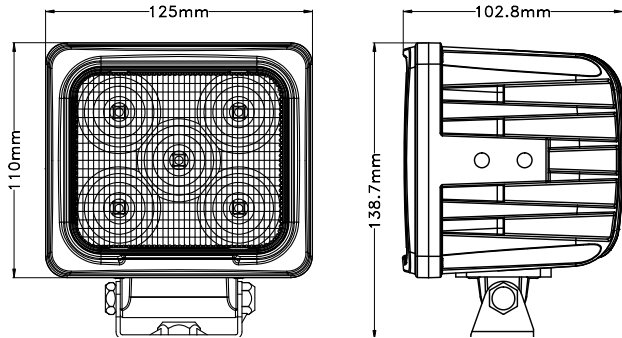
SPHINX-100

DIMENSIONS

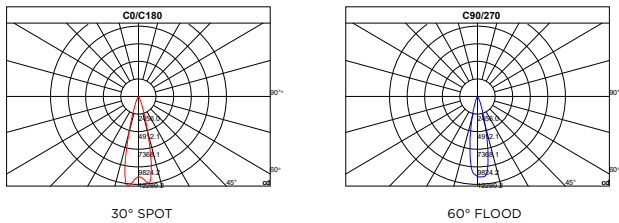
PHOTOMETRIC DIAGRAMS

SPHINX-50

DIMENSIONS

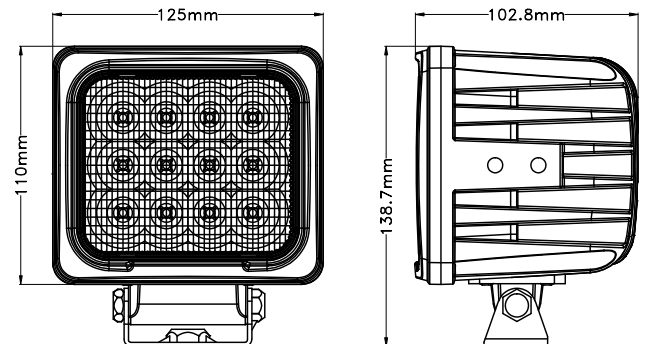


PHOTOMETRIC DIAGRAMS

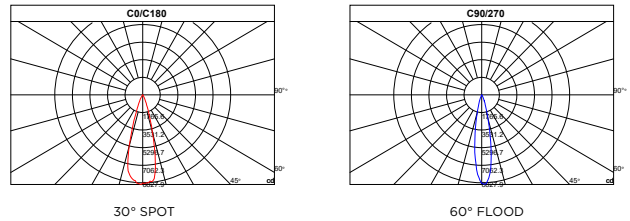


SPHINX-60

DIMENSIONS

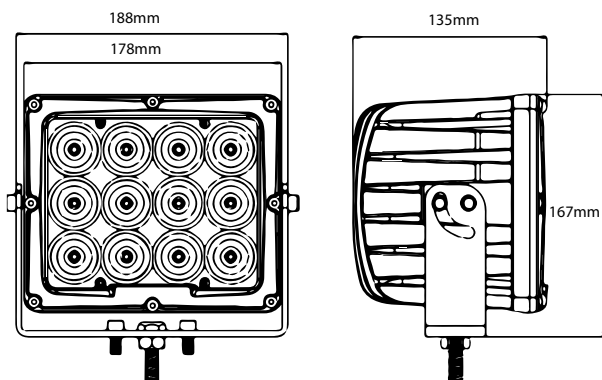


PHOTOMETRIC DIAGRAMS

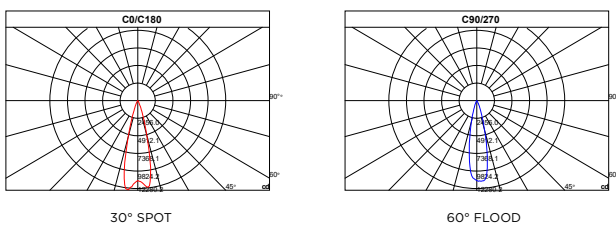


SPHINX-120

DIMENSIONS



PHOTOMETRIC DIAGRAMS



ORDERING METHODOLOGY

PLI-SPX

XX
WATTS

27W
40W
50W
60W
90W
100W
120W

XX
BEAM ANGLE

01 (30°)
02 (60°)

ACCESSORIES

U BRACKET - PLISPX/UB

SPHINX-27



SPHINX-40



SPHINX-50



SPHINX-60



SPHINX-90



SPHINX-100



SPHINX-120





INDUSTRY APPROVED VISIBLE BREAK
ISOLATORS & LOCAL CONTROL STATIONS

1300 074 636

www.phoenixems.com.au

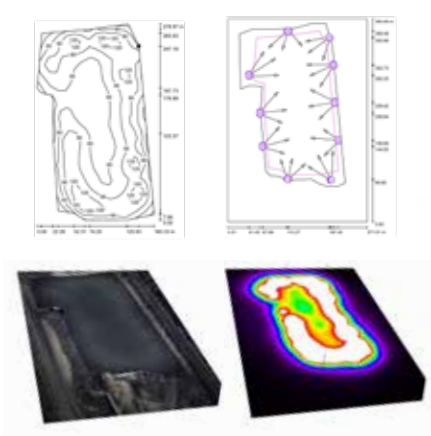

PHOENIX
ENGINEERING • MANUFACTURING SOLUTIONS

VALUE ADD CAPABILITY

DANGER
240VAC
ISOLATE ELSEWHERE BEFORE
REMOVING COVER

TURNKEY SOLUTIONS & PACKAGES

TURNKEY SOLUTIONS & PACKAGES



Lighting Studies



LED Lighting Supply



Light Poles Fully Assembled



Junction Boxes Fitted with Terminals and Gland Entries



LED Light Fittings Pre-wired with 3m Tails



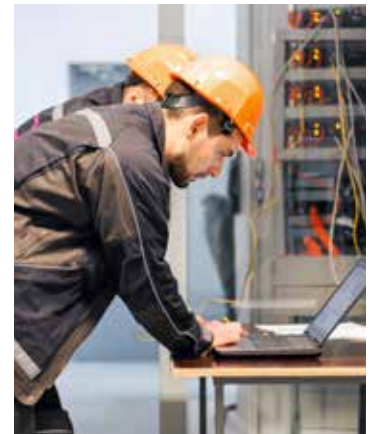
LED Light Fittings Fitted to Poles



LED Light Fitting Terminated into Junction Box



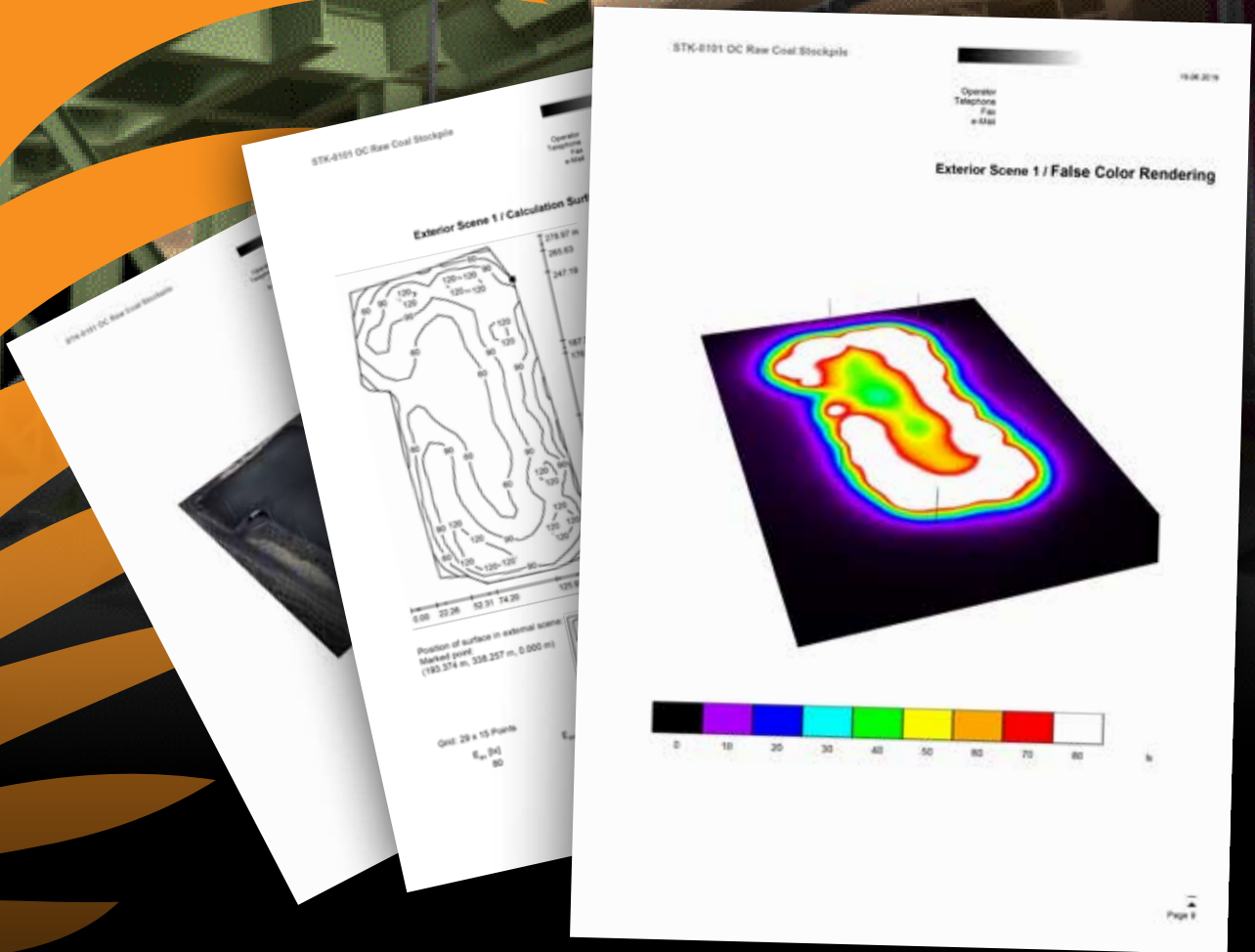
Packaging and Shipping



Comprehensive After Sale Support

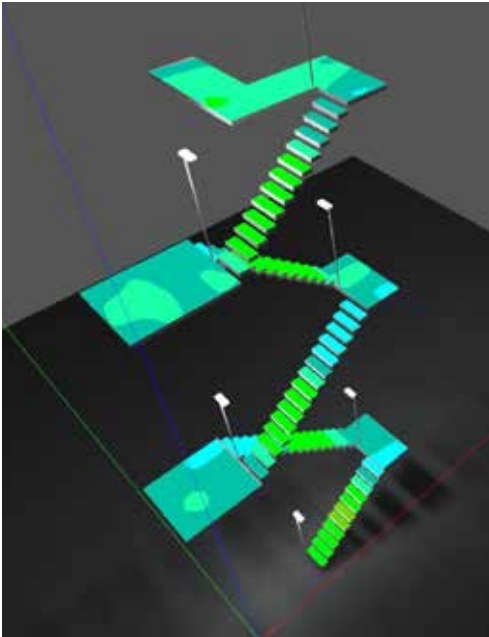


LIGHTING STUDIES

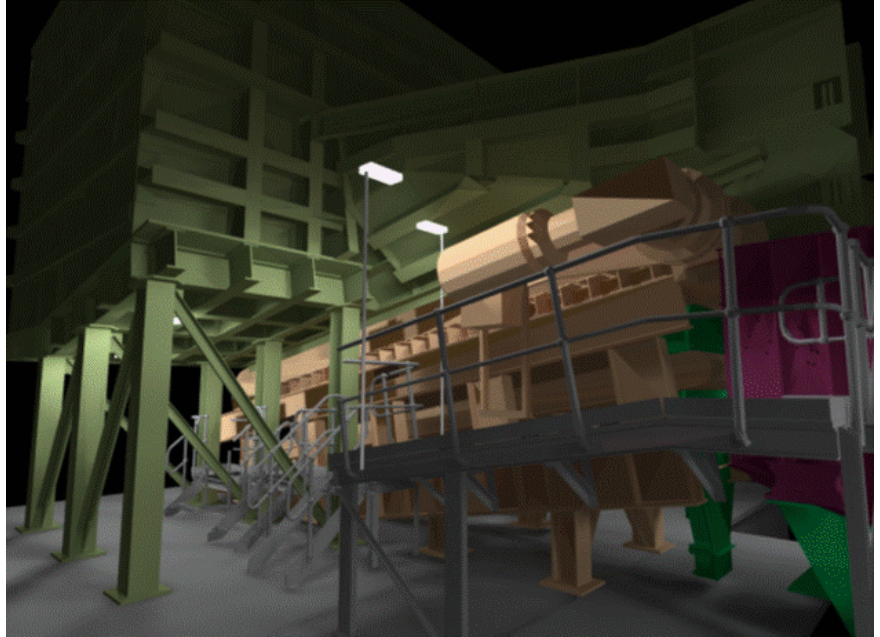


LIGHTING STUDIES

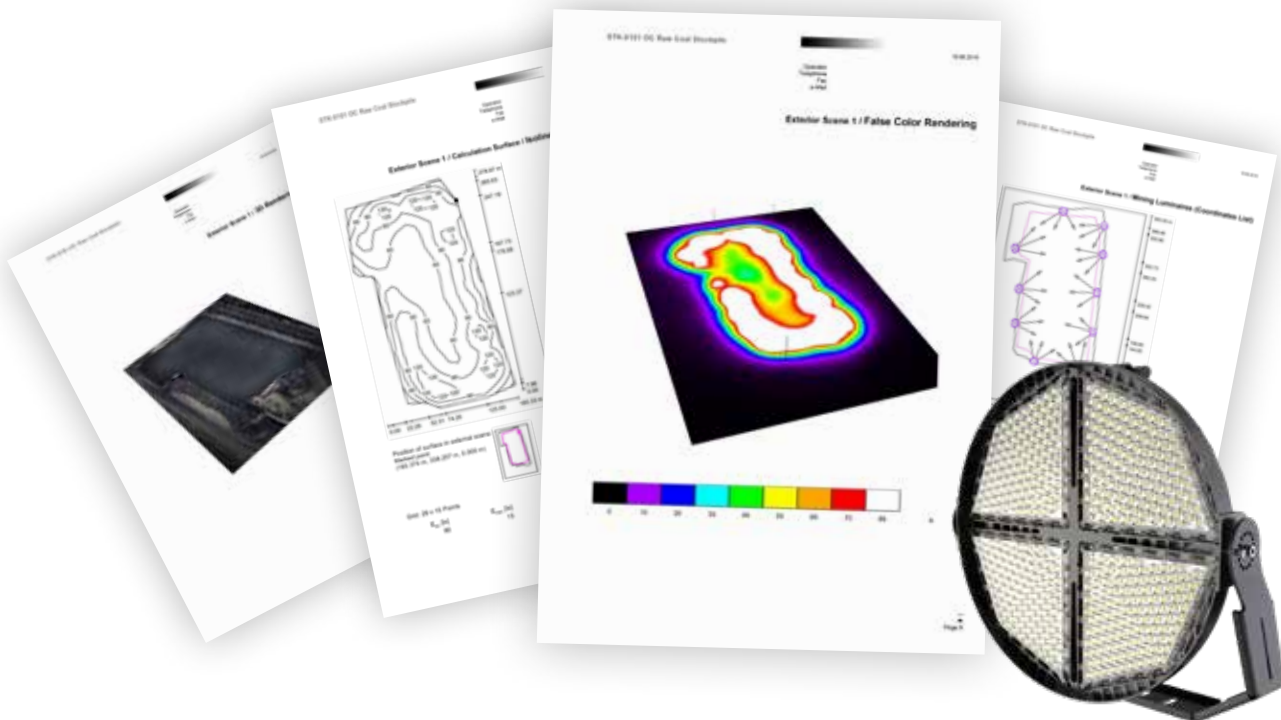
LIGHTING DESIGN CAPABILITIES



Dialux Lighting Design



3D Modelling



Lighting to Australian Requirements

In order to provide the right light, we conduct lighting studies by our qualified in house lighting designers and engineers. This also ensures that the lighting in your project meets Australian Lighting Standards. Based on our lighting studies, we provide you with the most suitable LED lighting solutions for your

project. Our lighting designers and engineers base their designs solely on the customers needs to develop and create a state of the art lighting solution.



GLOSSARY



GLOSSARY

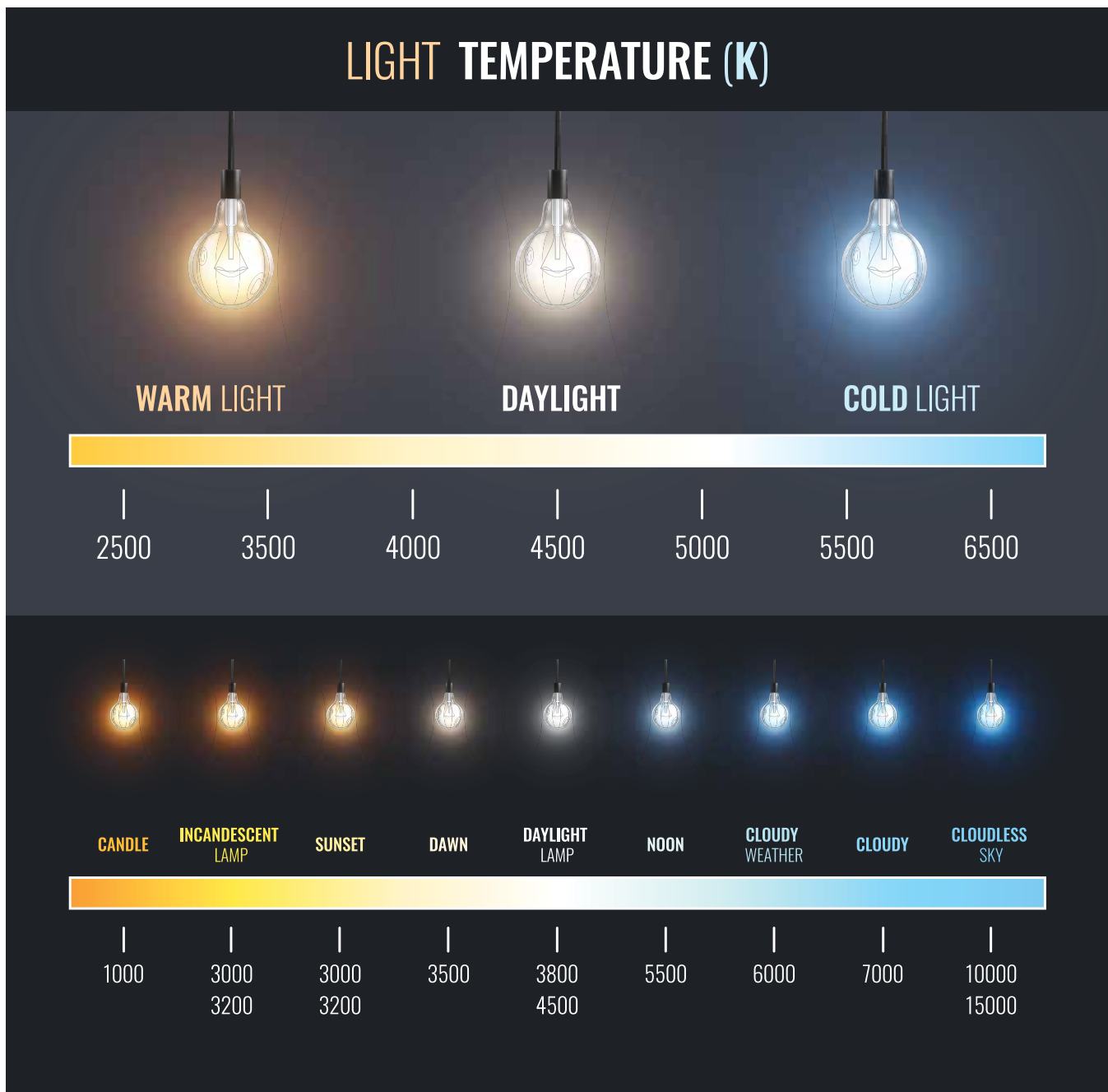
Please note that the following information is only a guide.

What is Colour Temperature?

Correlated Colour Temperature (CCT) is effectively a measure of how yellow or blue the colour of light discharged from a light bulb appears. It is measured in Kelvin and is most frequently found between 2200 Kelvin degrees and 6500 Kelvin degrees.

Warm light sources, such as incandescent bulbs, have a low colour temperature (2200-3000K) and include more light in the red, orange, and yellow range. When you picture a warm colour temperature, think of a fireplace or a room that's lights have been dimmed.

Cool light sources, such as some HID or fluorescent lamps, have a high colour temperature (>4000K) and distribute more light in the blue range. When you picture a warm colour temperature, think of a fireplace or a room that have had their lights dimmed.

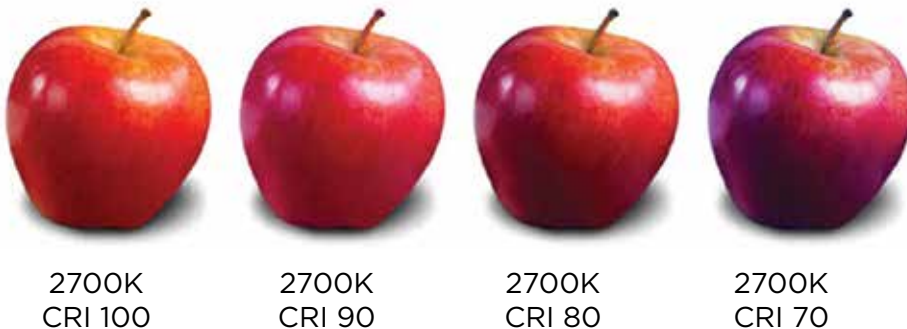


WHAT IS CRI?

CRI indicates how precisely artificial light renders the colour of object. On a spectrum of 1 to 100, CRI estimates the colour rendering and colour precision of objects beneath different lighting compared to how those objects would appear below incandescent lights or natural sunlight. The greater the numerical value of CRI, the better the luminaire or bulbs colour rendering. Normally, a CRI of 80 or above is deemed good, while a CRI of 90 or higher is excellent. Color rendering index should not be confused with color temperature. Color temperature, measured in Kelvin, determines how warm or cool lighting is.

WHY IS CRI IMPORTANT?

It is a critical aspect in any industrial or commercial environment. A LED lamp with a low CRI will divulge a flat, pale hue to anything it illuminates. This can cause plain, monotonous colours. LED lighting with a high CRI can infuse luminosity into your environment. A high CRI will make the colours of anything and everything in its path vibrant. A high CRI is particularly important for colour-critical applications where visual appeal and colour accuracy is fundamental to its environment.



LED LIGHTING

Industrial LED Lighting can provide better CRI than fluorescents as their CRI value is much higher which leads to better vibrance and accurate colour representation of an object or person.

Different types of lamps have different colour rendering capabilities. At the bottom of the spectrum are high-pressure sodium and mercury-vapor lights, with CRIs of about 24 and 49. Fluorescent bulbs can produce moderate CRI, although you have to pick and choose. Dependent on the material, fluorescents have a CRI range of 50 to 85. When you choose a great fluorescent, you can get good but not an excellent colour rendition.

Modern LED technology can produce a CRI of 90+. This means you can get virtually flawless natural colour if you select a LED with a high CRI. This can be vital in environments where you need natural colouring.

ZONE 0/ZONE 20 - Zone 0 hazardous area is an area where a flammable atmosphere is present continuously or for long periods or frequently. Continuous release inside a dust containment enclosure gives rise to Zone 20 - a place in which an explosive atmosphere, in the form of a cloud of combustible dust in air, is present continuously, or for long periods or frequently for short periods. For example, a mill or pneumatic conveying system.

ZONE 1/ZONE 21 - Zone 1 hazardous area is an area where a flammable atmosphere is likely to occur in normal operation occasionally. A Zone 21 area is categorised as a place in which an explosive atmosphere involving a combination of air or flammable substances in the form of powder or dust is likely to occur in normal operation occasionally. These are normally process areas where dusts and powders are more likely to be present.

ZONE 2/ZONE 22 - Zone 2 hazardous area is an area where a flammable atmosphere is not likely to occur in normal operation but, if it does occur, it will exist for a short period only. A Zone 22 area is categorised as an atmosphere where a mixture of air and flammable substances in the form of powder or dust is not likely to transpire in normal operation, but if it does occur, will persevere for a short period only. These are normally storage areas but can also be process areas.

ATEX - ATEX is the European certification given to equipment tested and approved to be intrinsically-safe. If a product / piece of equipment has official ATEX certification, it has been fully tested and approved to be safe to use in hazardous / explosive atmospheres. Remember, if an electrical / electronic device does not have ATEX approval and does not feature the Ex logo, it must not be used or brought onto site in explosive atmosphere areas. This certification **is not** accepted in Australia.

IECEX - IECEX stands for the certification by the International Electrotechnical Commission for Explosive Atmospheres. To be IECEX certified, all products must go through a monitored process by the International Electrotechnical Commission to ensure that they meet the minimum safety requirements. This process will determine if the products can be used in hazardous or potentially explosive locations. Participating countries in the IECEX Scheme include the majority of countries in Australia, Canada, Europe, Russia, China, United States and South Africa.

Classification of Zones and Divisions			
Type of Area	NEC	ATEX and IEC	Definition
Continuous hazard	Division 1	Zone 0 / Zone 20	explosive atmosphere is continually present
Intermittent hazard	Division 1	Zone 1 / Zone 21	explosive atmosphere is likely to occur in normal operation
Hazard under abnormal conditions	Division 2	Zone 2 / Zone 22	explosive atmosphere is unlikely to occur but if it does, will exist only for a short period


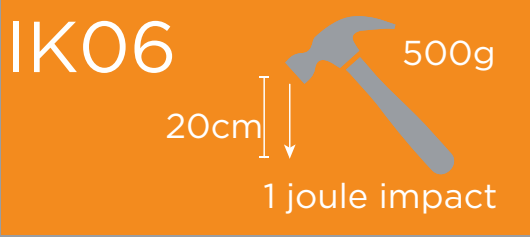
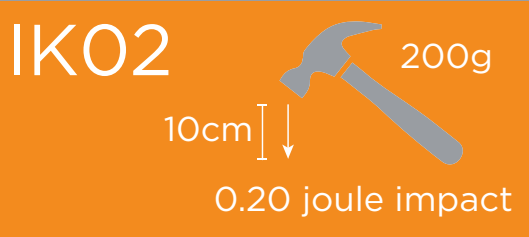
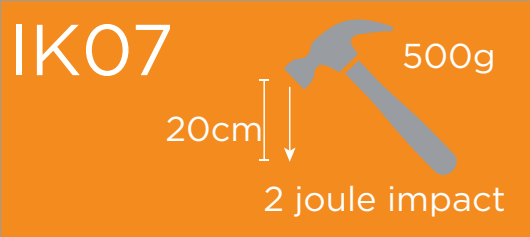




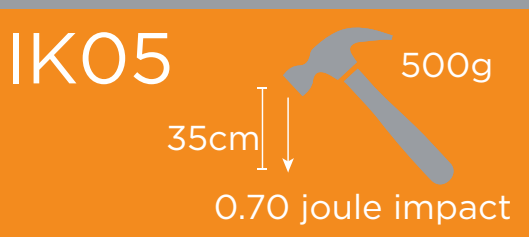
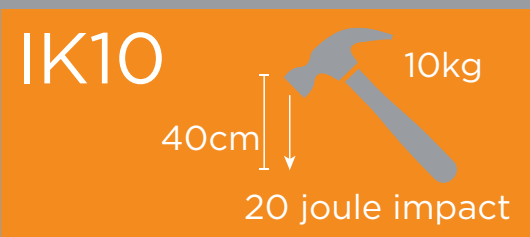
Equipment intended for use in Zone 1 areas cannot be used in Division 1 areas as this covers Zone 0 rated areas also.



IK RATING CHART

The Impact Protection Rating (IK Rating) comprises of the letters IK, followed by two digits. These two digits help us to classify the level of protection a piece of equipment offers and categorise the degrees of protection proposed by enclosures for electrical equipment against external mechanical impacts.

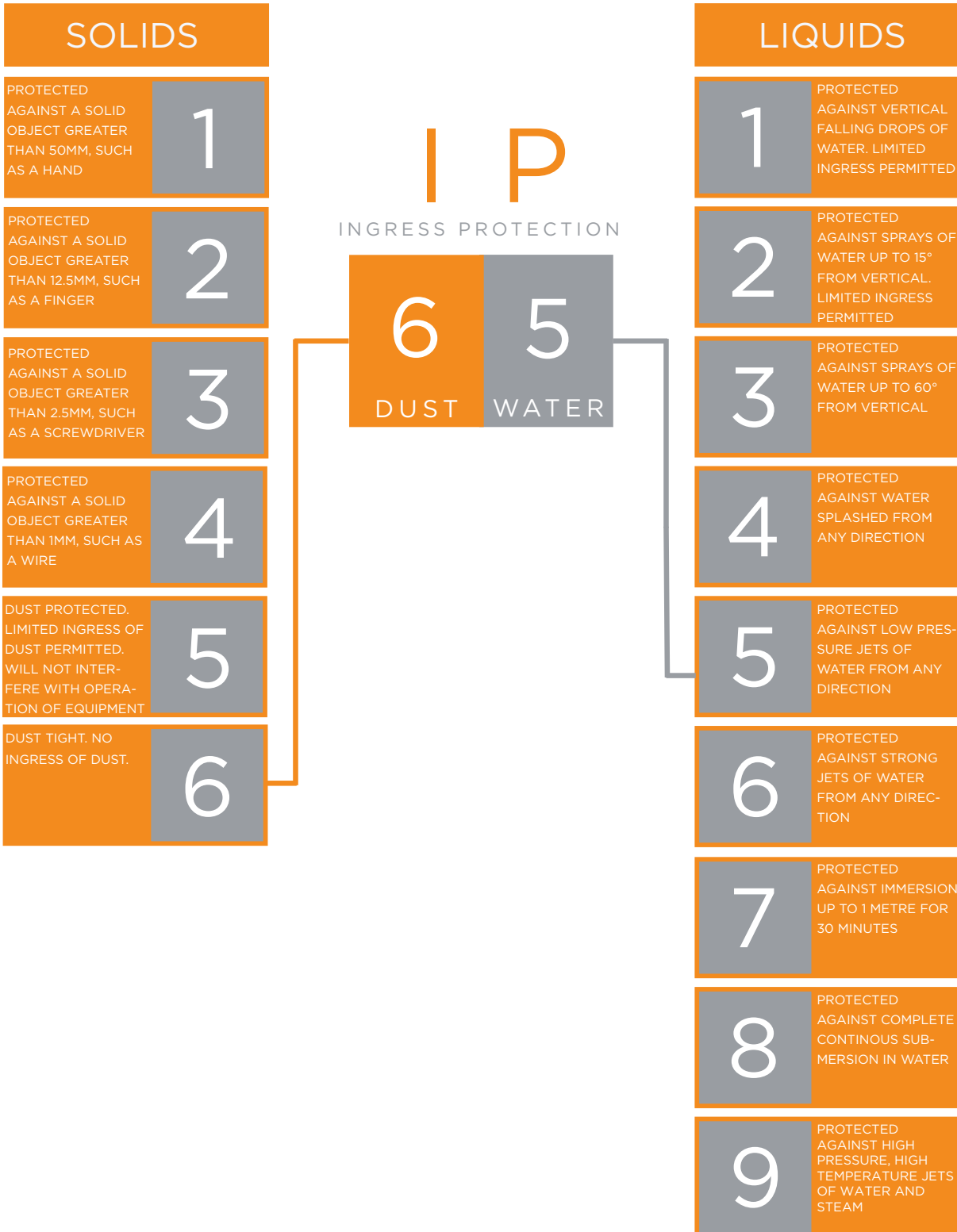
This standard stipulates how enclosures should be mounted when tests are conducted, the atmospheric conditions that should prevail, the number of impacts and their even distribution, and the size, style, material, and dimensions of the numerous times of hammer intended to generate the energy levels needed.

 <p>IK01 200g 7.5cm 0.15 joule impact</p>	 <p>IK06 500g 20cm 1 joule impact</p>
 <p>IK02 200g 10cm 0.20 joule impact</p>	 <p>IK07 500g 20cm 2 joule impact</p>
 <p>IK03 200g 17.5cm 0.35 joule impact</p>	 <p>IK08 5kg 10cm 5 joule impact</p>
 <p>IK04 200g 25cm 0.50 joule impact</p>	 <p>IK09 5kg 20cm 10 joule impact</p>
 <p>IK05 500g 35cm 0.70 joule impact</p>	 <p>IK10 10kg 40cm 20 joule impact</p>

IP RATING CHART

WHAT ARE IP RATINGS?

IP (Ingress Protection) ratings categorise the level of protection that the exterior of a luminaire provides against solids and liquids entering into and damaging the light. They are usually made up of solids and liquids. The solids digit will inform you how efficient the luminaire is at preventing solids getting in. The solids digit is almost always 5 or 6 as it ensures that the casing of the luminaire is dust resistant and dustproof. The second digit determines how well the luminaire is protected from liquid damage. Our LED lights can be anything from weatherproof or splash-proof right up to fully waterproof.

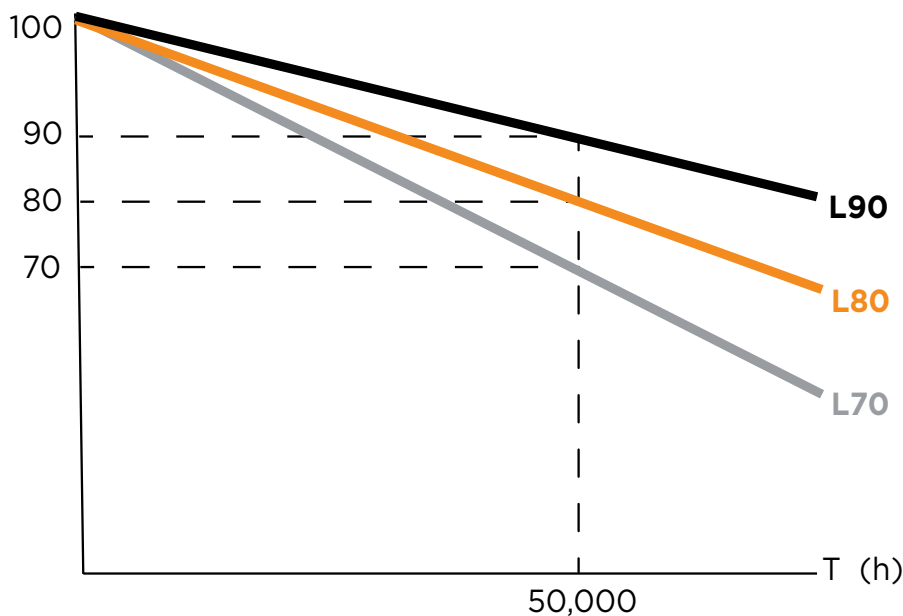


L70 - LED must preserve 70% of their original lumens throughout their rated life. For example, an LED with a life of 25,000 hours means that at 25,000 hours of use, the LED bulb will be generating 70% of the light output that it was emitting when it was brand new.

LM80 - A uniform testing method for determining the lumen depreciation of LED modules or chips over a period of time and under certain set conditions. Normally, LED chips are tested for 6,000 hours until they reach L70. LM-80 defines the rated life of the LED module, but not the life of the complete LED product. Other mechanisms, such as drivers, electrical connections, product integrity, etc. may fail before the LEDs.

LM79 - An approved method that measures the electrical and photometric properties of the LED luminaire. This process includes luminous flux, electrical power, efficiency, chromaticity as well as the diffusion of luminous force. Results of metric measurements displayed on a lighting product label derive from test results based on the LM-79 report.

TM21 - Offers advice on the use of data accumulated through LM-80 tests to evaluate the lifespan of a light source outside the number of test hours suggested by LM-80 and permits us to deduce the lifespan up to six times the number of test hours. For example, luminaires tested for 6,000 hours in a laboratory environment should not be sold with a certification specifying a lifespan greater than 36,000 hours based on the L70 lifespan.



As LED technology advanced, the lifespan of luminaires surged and the 70% figure of L70 began exceeding 60,000 hours. This led to the creation of additional ratings such as L80 (80% of initial lumens) and L90 (90% of initial lumens). Using the table above for an example, a luminaire rated at 50,000 hours L90 would retain 90% of its light output at 50,000 hours, whereas a luminaire rated 50,000 hours L70 would only retain 70% of its output.

LUX LEVELS GUIDELINES

AREA	MINIMUM AVERAGE LUX
General access and movement around work areas	80
General indoor workshop operating areas: Rough work	160
General indoor workshop operating areas: Medium work	240
General indoor workshop operating areas: Fine work	400
Workshop office	320
Control rooms and switchrooms	320
Change rooms	80
Switch room external area (general inspection)	50
Switch room external area (maintenance and repair)	200
Stairways and stairwells	80
Warehouse with bulk dead storage areas	80
Warehouse with bulk live storage areas	160
Conveyor walkways	40
Conveyor tunnels	160
Conveyor inspection points	80
Train loading and unloading station	40
General plant work areas	160
Ore handling: transfer stations	160
Ore crushing and screening areas	160
Stockpile ring road	30
Stockpile dump areas	50
Stockyard interiors	50
Marshalling yards	20
General roadways	5
Roadway intersections	7.5
Pathways	5
Car park	10



ALUMINIUM - a light malleable ductile silvery-white metallic element that contests corrosion; the third most rich element in the earth's crust (8.1 per cent), appearing only as a compound, mainly in bauxite.

ALUMINIUM ALLOY - An aluminum alloy is a chemical structure where other elements are added to pure aluminum to increase its properties, primarily to boost its strength. These other elements include iron, silicon, copper, magnesium, manganese and zinc at levels when merged may project as much as 15 percent of the alloy by weight.

ANTI-CORROSION - Anti-corrosion coatings consent for added protection of metal surfaces and act as a barrier to prevent the contact between chemical compounds or corrosive materials. Along with preventing corrosion, they also offer a bonus of abrasion resistance, non-stick performance, and chemical protection.

FROSTED POLYCARBONATE - Frosted polycarbonate is concealed by fine particles. While light transmitting the frosted surface, scattering and diffuse reflection transpires and makes the light soft and uniformly distribute.

GLASS LENS - Its resistance to scratches is incredible. Like most objects, glass is still vulnerable to scratching, but its integral advantages make it hard to scratch and consequently they do not require an added scratch-resistant coating for protection. Glass is thought to be the most optically clear material existing, which is why it's still used in other objects that need precision clarity such as lenses, and microscopes.

MARINE GRADE ALUMINIUM - Marine grade metals are specifically created to endure use in water or wet environments. Generally, this is achieved by adding particular alloys to the metal to make it corrosion-resistant, weigh less, and more economical. Marine grade aluminum alloys usually contain aluminum-magnesium (Al-Mg) alloys and aluminum magnesium-silicon (Al-Mg-Si) alloys.

PMMA - Polymethyl methacrylate (PMMA), also recognised as acrylic or acrylic glass, is a transparent and inflexible thermoplastic material commonly used as an unbreakable replacement for glass. PMMA has numerous technical advantages that include high resistance to UV light and weathering, exceptional light transmission and limitless colouring options.

POLYCARBONATE - A polycarbonate lens is created through a thermoplastic polymer of the carbonate family. It is about 10 times more impact resistant than normal plastic or glass lenses. Polycarbonate lenses are favoured over glass lenses because of its lightweight, ultraviolet (UV) and impact resistance characteristics.

AS/NZS 1680: Interior and Workplace Lighting		
1680.0	Part 0	Safe movement
1680.1	Part 1	General principles and recommendations
1680.2.1	Part 2.1	Circulation spaces and other general areas
1680.2.2	Part 2.2	Office and screen-based tasks
1680.2.3	Part 2.3	Educational and training facilities
1680.2.4	Part 2.4	Industrial tasks and processes
1680.2.5	Part 2.5	Hospital and medical tasks
1680.3	Part 3	Measurement, calculation and presentation of photometric data
1680.4	Part 4	Maintenance of electric lighting systems
AS/NZS 1158: Lighting for Road and Public Spaces		
1158.0	Part 0	Introduction
1158.1.1	Part 1.1	Vehicular traffic (Category V) lighting – Performance and design requirements
1158.1.2	Part 1.2	Vehicular traffic (Category V) lighting – Guide to design, installation, operation and maintenance
1158.2	Part 2	Computer procedures for the calculation of light technical parameters for Category V and Category P lighting
1158.3.1	Part 3.1	Pedestrian area (Category P) lighting – Performance and installation design requirements
1158.4	Part 4	Lighting of pedestrian crossings
1158.5	Part 5	Tunnels and underpasses
1158.6	Part 6	Luminaires
AS/NZS 2560: Sport Lighting		
2560.1	Part 1	General principles
2560.2.1	Part 2.1	Specific applications – Lighting for outdoor tennis
2560.2.2	Part 2.2	Specific applications – Lighting of multipurpose indoor sports centres
2560.2.3	Part 2.3	Specific applications – Lighting for football (all codes)
2560.2.4	Part 2.4	Specific applications – Lighting for outdoor netball and basketball
2560.2.5	Part 2.5	Specific applications – Swimming pools
2560.2.6	Part 2.6	Specific applications – Baseball and softball
2560.2.7	Part 2.7	Specific applications – Outdoor hockey
2560.2.8	Part 2.8	Specific applications – Bowling greens
AS/NZS 2293: Emergency Escape Lighting and Exit Signs for Building		
2293.1	Part 1	System design, installation and operation
2293.2	Part 2	Inspection and maintenance
2293.3	Part 3	Emergency escape luminaires and exit signs
AS/ANZ 4282: Control of Obtrusive Effects of Outdoor Lighting		



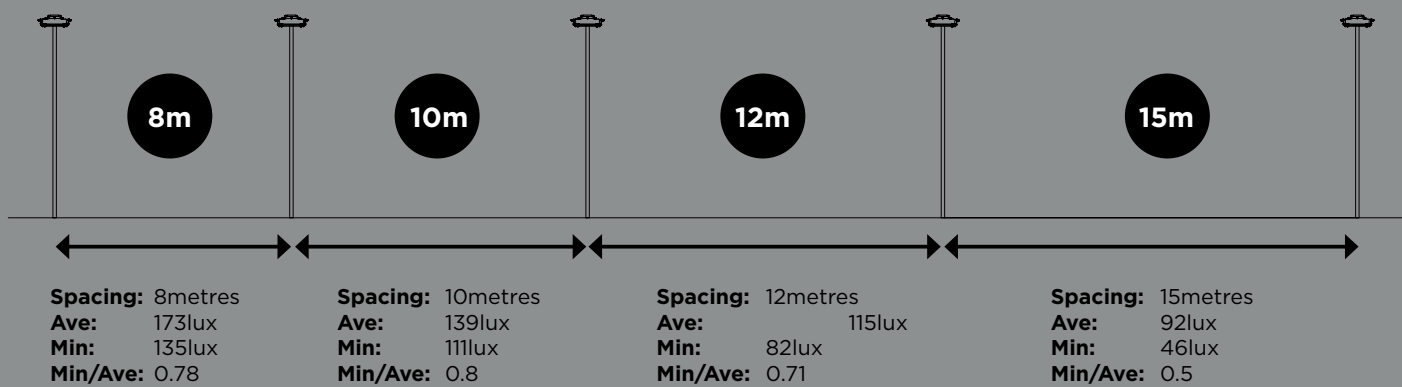


ILLUMINATOR

Up to 15m spacing
with 40 lux minimum

SPACINGS

50W-5000K-Type II Optics Model Mounting
Height: 3.0m Maintenance Factor: 0.8



VIEW OUR FULL RANGE OF
INDUSTRIAL LIGHTING

1300 074 636

www.phoenixems.com.au



UNRIVALED ENGINEERING & MANUFACTURING SOLUTIONS

phoenixems.com.au



Phoenix Engineering & Manufacturing Solutions

P 1300 074 636

E sales@phoenixems.com.au

W www.phoenixems.com.au

A 2/8 Nelson Road, Cardiff NSW 2285

A 33 Baile Road, Canning Vale WA 6155

The material and information in this document is for general purposes only and information available at time of development. Whilst we endeavour to keep this information up to date and correct at all times, Phoenix EMS makes no representations or warranties of any kind for incorrect information.