A.S.P. Electro-Technology Ltd

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SLED

- Zone 1, 2, 21, 22
- Mechanical strength
- Reliability over time
- Instant, bright illumination

A.S.P. Electro-Technology Ltd, Radius Court, Tungsten Park, Maple Drive, Hinckley, Leicestershire LE10 3BE

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SLED series LED floodlights

SLED series floodlights with LED technology combine lightweight, compact design, high performance in terms of reliability, safety, efficiency and energy saving. They are characterized by LEDs with optics "square shaped beam" that permits a light distribution and a perfectly uniform lighting in every direction. This photometry makes them particularly suitable for installation in the perimeter areas or wall in all those areas defined as dangerous for the presence of gas, explosive dust, such as Zone 1, 2, 21, 22. The finned body of the floodlight acts as a heat sink for the LED plate, allowing the installation of greater light output without incurring the deterioration of the LEDs. Due to their high luminous output and to a white light with a colour rendering index greater than 70, SLED series floodlights are able to replace the traditional rectangular floodlights that use discharge lamps sodium vapour or metal halide, guaranteeing lighting quality and visual comfort.

Application sectors:

Oil refineries | Chemical and petrochemical plants | Anti light pollution | Offshore plants | Onshore plants | Perimeter lighting | Oil loading/unloading jetties | 100% Cortem product

CERTIFICATION DATA

Classification	Group II	Category 2GD		
Installation EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Polvo)		
Marking:	CE 0722 Ex II 2GD Ex de IIB+H_2 T5/T6 Gb - Ex tb IIIC T100°C T85°C Db IP66			
Certification:	ATEX CEC 15 ATEX 178			
	IECEx IECEx CML 17.0004			
	TR CU AVAILABLE	All TR CU certification data can be downloaded at www.cortemgroup.com		
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2014, EN 60079-7: 2007, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2011, IEC 60079-1: 2014-06, IEC 60079-28: 2015, IEC 60079-31: 2013, IEC 60079-7: 2015 European Directive 2006/95 Low voltage European Directive 2004/108 Electromagnetic compatibility European Directive 2003/108 WEEE Waste electrical and electronic equipment European Directive 2011/64 RoHS			
Class temperature:	100°C (T5)	85°C (T6)		
Ambient temperature:	-40°C +40°C (T6 / IIB) -20°C +40°C (T6 / IIB+H_2)	-40°C +60°C (T5 / IIB) -20°C +60°C (T5 / IIB+H_2)		
Degree of protection:	IP66			

This equipment can be used in an environment containing explosive atmosphere and with the presence of hydrogen.

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SLED series LED floodlights

SLED-250

SLED-400

SLED-600

ORIGINAL PRODUCT

MECHANICAL FEATURES

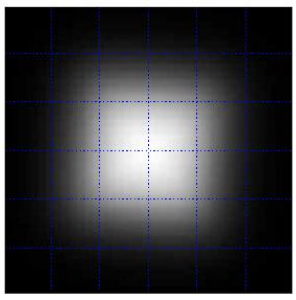
Body:	Low copper content aluminium alloy fitted with cooling fins for better heat dissipation
Glass face:	Shock and temperature resistant tempered glass sealed with aluminium ring
Supporting bracket:	Galvanised steel
Gaskets:	Acid, hydrocarbon and high temperature resistant silicone
Bolts and screws:	Stainless steel
Entries:	2 x ISO M20 entries (SLED-250); ISO M25 entries (SLED-400; SLED-600). (Floodlight kit with plug and cable gland)
Coating:	Polyester coating Ral 7035 (Light grey)
Corrosion Resistance:	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)

Floodlight Optics

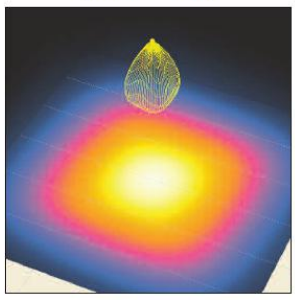
Description:
Each LED has a "square shaped beam" optics that allows to distribute th light on the floor in a perfectly uniform way. Forthermore, the light poin can be optimized reducing the system costs. They are suitable for any ir door or outdoor application ensuring lighting of large areas and a homo geneous and symmetrical distribution of the light.

Features:
- Square shaped beam
- Precision Component
- High efficiency lighting
- Excellent luminous flux
- Made of polycarbonate with special coating treatment
- Self-extinguishing UL94 guaranteed
- Vibration resistant
- Innovative design

Illuminance Map
(in Gray Scale)



Illuminance Map
(in False Color)



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SLED series LED floodlights

Electrical features	SLED-250	SLED-400	SLED-600
Power supply:	100-277 Vac ±10%	120-277 Vac ±10%	120-277 Vac ±10%
Rated frequency:	50-60 Hz ±5%	50-60 Hz ±5%	50-60 Hz ±5%
Power consumption:	122 W	194 W	290 W
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm², suitable for loop-in/loop-out		
Power factor:	0,95 *	0,96 *	>0,97 *
Rated current:	559 mA *	877 mA *	1303 mA *
EMC (electromagnetic compatibility):	EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-...		
THD (total harmonic distortion):	<15% 100-277 Vac	<20% 120-277 Vac	<20% 120-277 Vac
Over-voltage protection:	2 kV	4 kV	4 kV
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection		
Dimmer (on request):	(0-10 V) or PWM or resistence	(0-10 V)	(0-10 V)
Photometric features			
LED:	Cree XPL	Cree XPL	Cree XPL
Viewing angle:	60°	60°	60°
Type:	Cool White	Cool White	Cool White
Group:	V6	V6	V6
Colour temperature:	~ 6500 K	~ 6500 K	~ 6500 K
CRI **:	>70	>70	>70
Instant Restrike:	YES	YES	YES
L80:	> 72600	> 72600	> 72600
Lumen:	**12387 lm**	**20744 lm**	**30799 lm**
Maximum light intensity:	**5206 cd**	**23491 cd**	**33976 cd**
Overall efficiency:	**101 lm/W**	**107 lm/W**	**106,2 lm/W**

** Test at 230Vac*
*** Different CRI on request*

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Different colour temperature (code SLED-250/**2700K**)

Example Peak Cd equivalents

SLED-250 (122 W)	SLED-400 (194 W)	SLED-600 (290 W)
		
SODIUM (250 W) METAL HALIDE (400 W)	SODIUM (400 W) METAL HALIDE (400 W)	SODIUM (600 W) -

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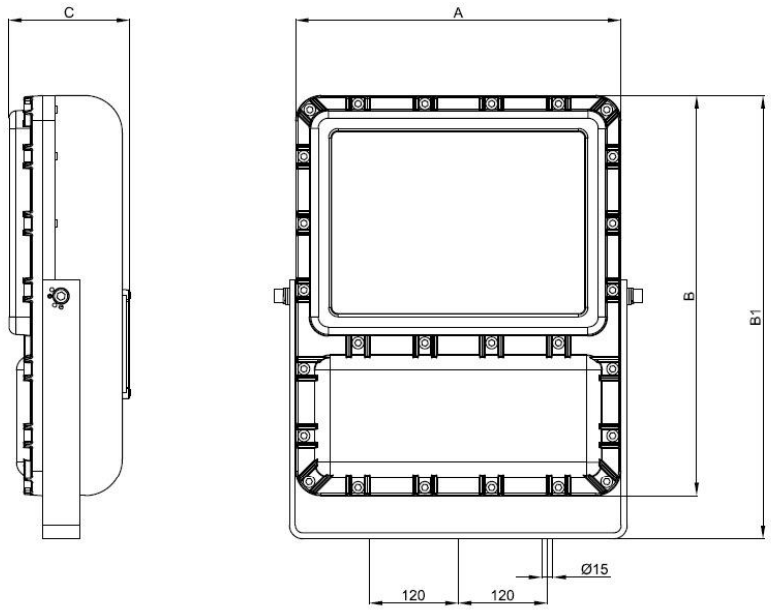
SLED series LED floodlights

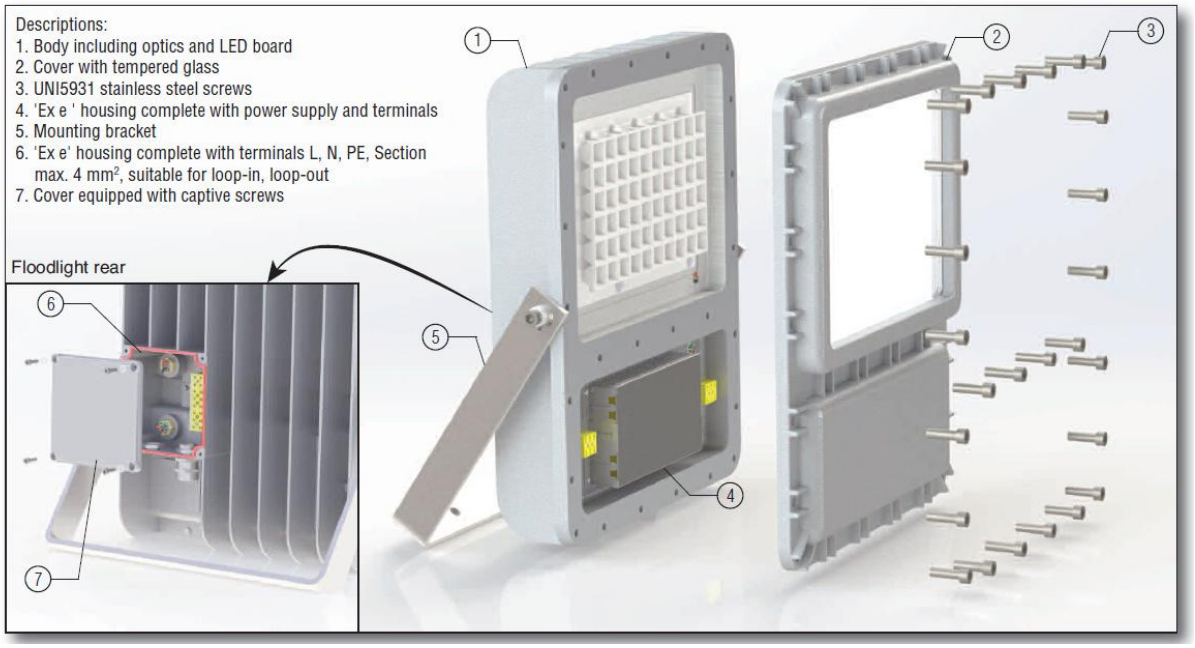
Code	Dimensions mm A	B	B1	C	Watt	Class Ta =+60°C	Max surface temp °C	Weight Kg	mm
SLED-250	310	360	460	135	122 W	T5	100	13,5	470x345x150
SLED-400	360	444	520	145	194 W	T5	100	20,3	540x410x180
SLED-600	440	540	600	165	290 W	T5	100	32,4	600x465x180

DIMENSIONAL DRAWING



Dimensions in mm

EXPLODED DIAGRAM OF SLED-600 FLOODLIGHT



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SLED series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Reinforced supporting bracket for mounting on movement facilities	SLED-600	Material: galvanised steel	G-558/1	ACCESSORY SPARE PART
	Frame for pole mounting	SLED-250 SLED-400 SLED-600	Material: galvanised steel	G-0534	ACCESSORY SPARE PART
	Swivel base for 360° adjustment	SLED-400 SLED-600	Material:aluminum RAL 7035 painted	G-326 + G-327	ACCESSORY SPARE PART
	Cable gland for non-armored cables	SLED-250	std. cable range 7÷12	REV1IB	ACCESSORY SPARE PART
		SLED-400 SLED-600	std. cable range 12÷18	REV2IB	
	Front ring with glass	SLED-250	Low copper content aluminium alloy with tempered glass	G250-0622	SPARE PART
		SLED-400		G400-0622	
		SLED-600		G-0494	
	Supporting bracket	SLED-250	Material: galvanised steel	G-901	RICAMBIO
		SLED-400		G-896	
		SLED-600		G-558	
	Optics	SLED-250 SLED-400 SLED-600	Material: polycarbonate	PIXEL12	SPARE PART
	Power supply	SLED-250	100-277 Vac	LEDDEVL100	SPARE PART
		SLED-400	120-277 Vac	LEDDSLED600	
		SLED-600	120-277 Vac	LEDDSLED600	

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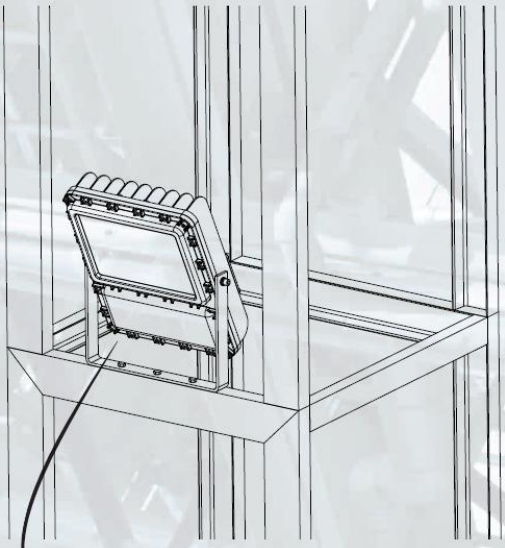
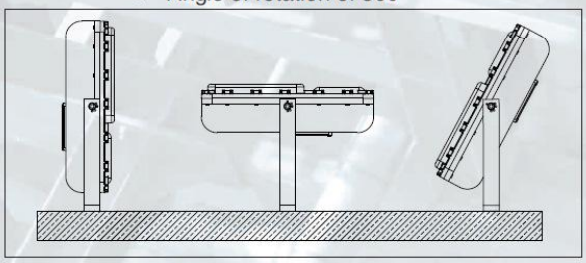
Installation and mounting methods

Example of pole mounting

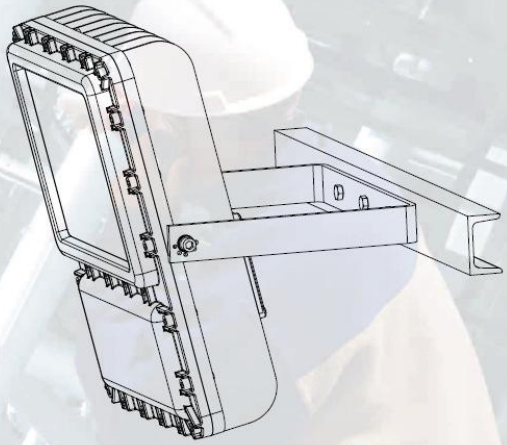
Example of vertical mounting on structure



Angle of rotation of 360 °



Example of horizontal mounting on structure



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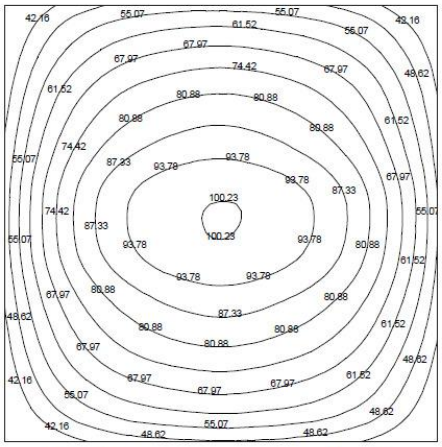
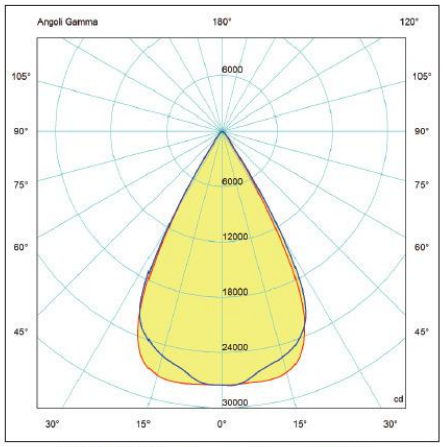
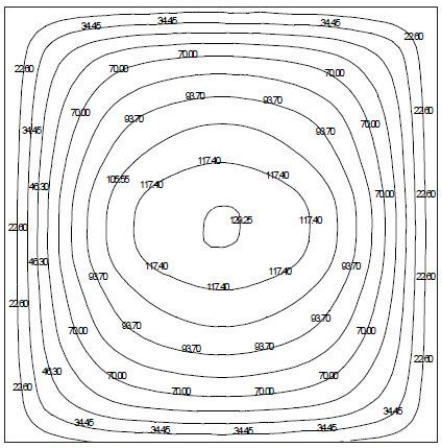
Photometric diagrams



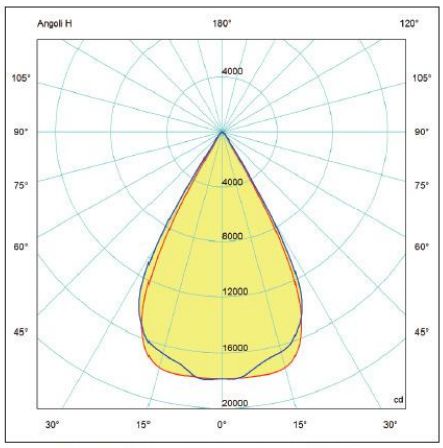
SLED-600 illuminance expressed in lux in a 15m x 15m room with floodlight placed perpendicularly at **15m** in height.



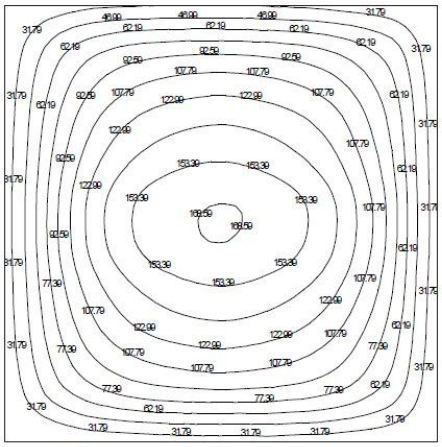
SLED-600 Luminous flux: 30799 lm



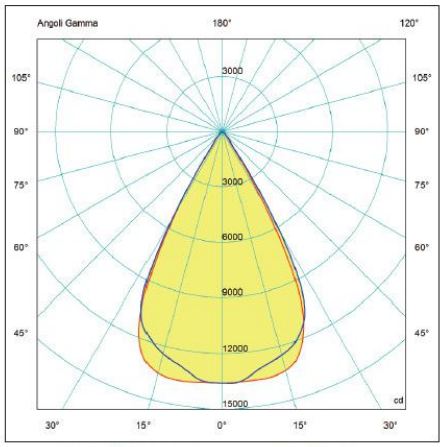
SLED-400 illuminance expressed in lux in a 15m x 15m room with floodlight placed perpendicularly at **13m** in height.



SLED-400 Luminous flux: 20744 lm



SLED-250 illuminance expressed in lux in a 5m x 5m room with floodlight placed perpendicularly at **8m** in height.



SLED-250 Luminous flux: 12387 lm

= plane 90270

= plane 0180