

SIRENA

LED FLOODLIGHT

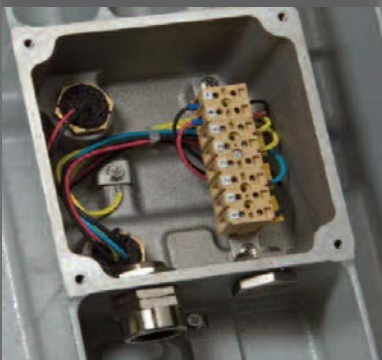
- Zone 1, 2, 21, 22
- Mechanical strength
- Reliability over time
- Instant, bright illumination

*Painted aluminium
body and cover*

Tempered glass



*Ex e terminal board
housing for fast connection*



Mounting bracket



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SİRENA Series Led Floodlights

SİRENA 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, SİRENA 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:



CERTIFICATION DATA

Classification	Group II	Category 2GD		
Installation Marking:	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Polvo)		
Certification:	CE 0722 Ex II 2GD Ex de IIB+H ₂ T5/T6 Gb - Ex tb IIIC T100°C T85°C Db IP66			
	TSE XX ATEX XXXX			
	2014/34/EU			
Standards:	EN 60079-0:2012+A11:2013	EN 60079-1:2014		
	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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SIRENA-250



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
Supporting bracket:	ring Galvanised steel
Gaskets:	Acid, hydrocarbon and high temperature resistant nbr oring
Bolts and screws:	Stainless steel
Entries:	8 x ISO M20 entries (SIRENA-250); (Floodlight kit with plug and cable gland)
Coating:	Polyester coating Ral 9016 (White)

Floodlight Optics



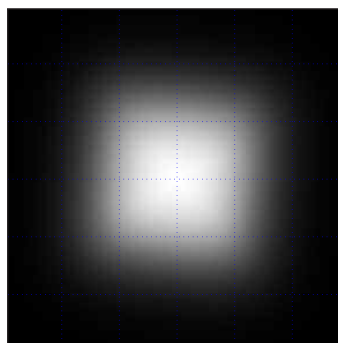
Description:

Each LED has a "square shaped beam" optics that allows to distribute the light on the floor in a perfectly uniform way. Furthermore, the light points can be optimized reducing the system costs. They are suitable for any indoor or outdoor application ensuring lighting of large areas and a homogeneous and symmetrical distribution of the light.

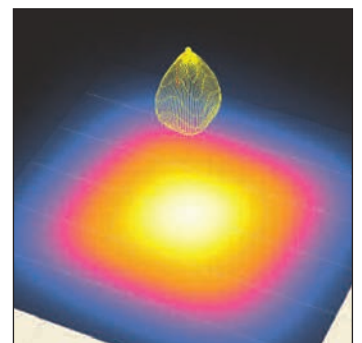
Features:

- Square shaped beam
- Precision Component
- High efficiency lighting
- Excellent luminous flux
- Made of polycarbonate with special coating treatment
- Vibration resistant
- Innovative design

Illuminance Map
(in Gray Scale)



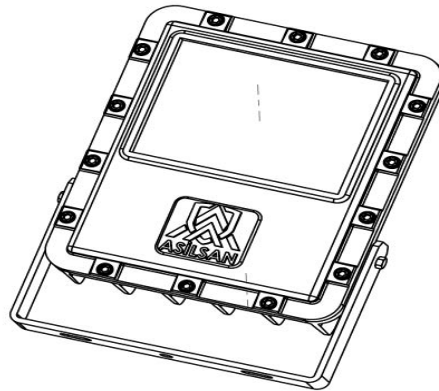
Illuminance Map
(in False Color)



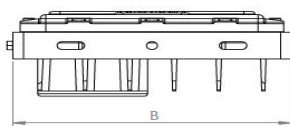
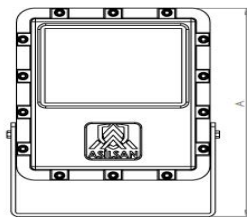
SİRENA LED floodlights

Code	Dimensions mm				Watt	Class Ta =+60°C	Max surface temp °C	Weight Kg
	A	B	C	W				
SİRENA-250	435	360	160	135	122 W	T5	100	16

DIMENSIONAL DRAWING



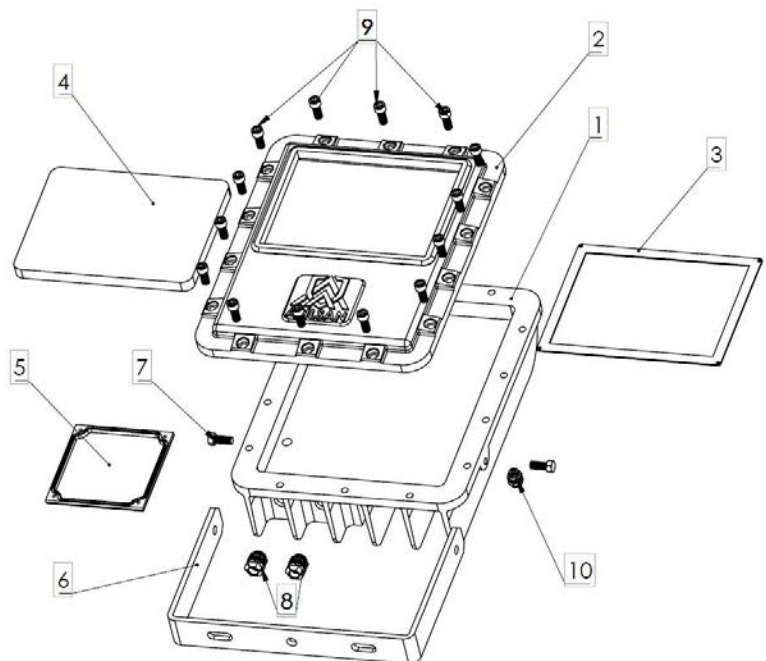
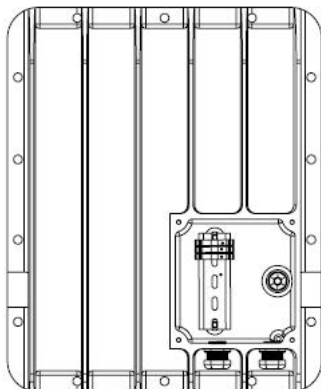
Dimensions in mm



Descriptions:

1. Aluminum Body
2. Cover with tempered glass
3. Sheet Metal Frame
4. Tempered Glass
5. Console Cover
6. Consol
7. Screw
8. Cable Gland
9. Screw
10. Cable Gland

Floodlight rear



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SIRENA series Accessories and spare parts available on request

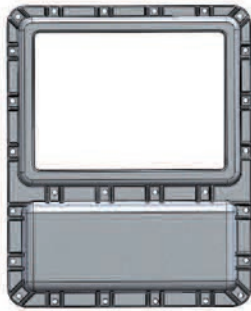

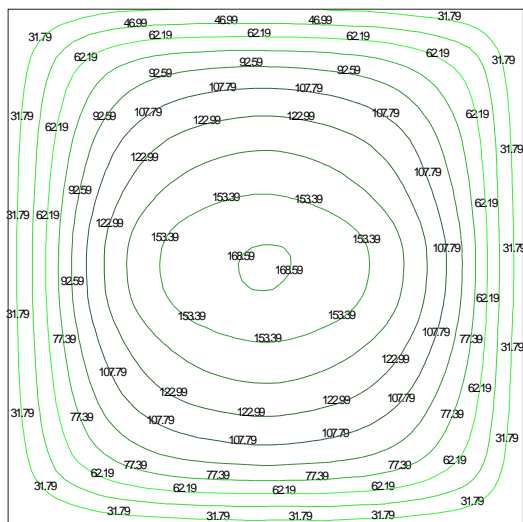
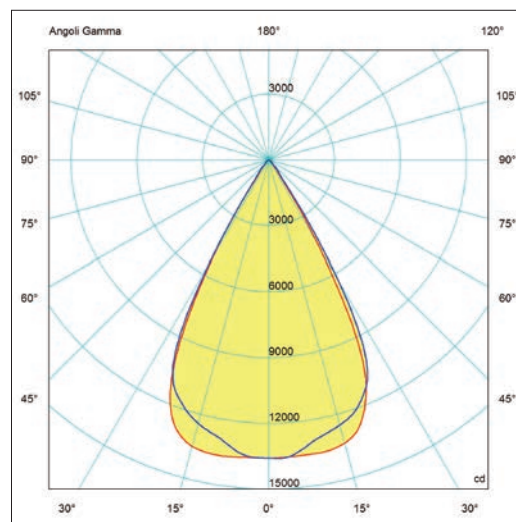


ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Cable gland for non-armored cables		std. cable range 7÷12	REV11B	 
	Front ring with glass		Low copper content aluminium alloy with tempered glass	G250-0622	
	Supporting bracket		Material: galvanised steel	G-901	
	Optics		Material: polycarbonate	PIXEL12	
	Power supply		100-277 Vac	Leddev100	

Photometric diagrams



G F 9NA-250 illuminance expressed in lux in a 5m x 5m room with floodlight placed perpendicular at 8m in height.



G F 9B5! &) \$' @ a]bci gZi l . %&' , +`a

Electrostatic Powder Coating and NBR Oring



Solvent-free, high surface quality, corrosion resistant and environmentally friendly electrostatic powder coating



-40 °C < 120°C up to heat resistant, 4 millimeter thick superior sealing provider



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