

# SLFE

- Suitable for high (+55°C) and low (-50°C) temperatures
- Easy side access for replacement lamps
- Optimal performance at low temperatures (-50°C)
- Zones 1, 2, 21, 22

*Electrical components compartment*

*Shock resistant tempered glass*

*Lamp up to 600 W*

*Side view  
for lamp replacement*



# SLFE series Rectangular vertical floodlights

Ex de

New generation SLFE series floodlights have been specially designed to provide the symmetrical, powerful distribution of light in all those areas where an intense, concentrated illumination is needed. The symmetrical reflector makes sure that the light is spread symmetrically in all directions to provide uniform lighting. Their rectangular design is both unique and innovative with the benefit of facilitating maintenance work. Lamps replacement is greatly simplified thanks to access through a side panel and there is no need for the glass to be removed. SLFE floodlights have a built in "Ex e" terminal board housing that allows to enter the lighting fixture through a cable gland with a "Ex" O-ring (non barrier) as specified in the installation specification standards (EN/IEC 60079.14). The electrical components (ballast, capacitor, igniter) are thermally separated from the lamp compartment thus ensuring a long and efficient working life. SLFE floodlights can be fitted with lamps of up to a maximum of 600 Watt. SLFE series floodlights also comply with anti light pollution standards (Regional Law date 27 March 2000 N°17 – Article 6).

## Application sectors:

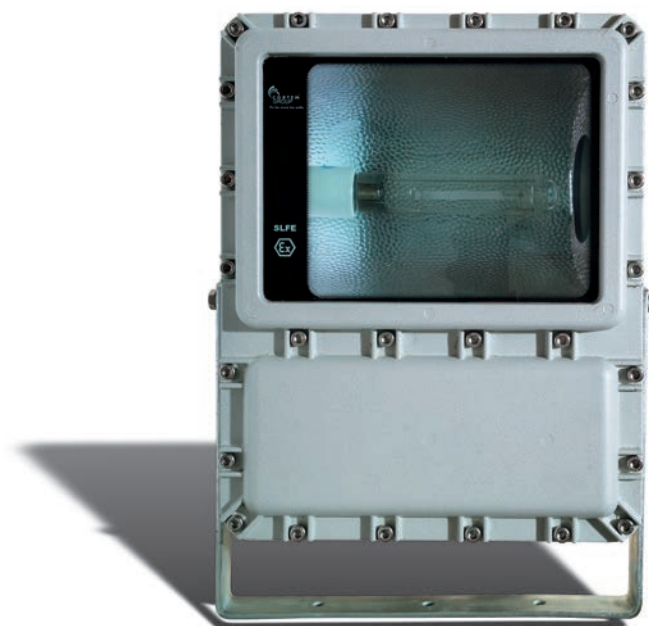


## CERTIFICATION DATA

Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Certification:	CE 0722 Ex II 2GD Ex de IIB T2/T3 - Ex tD A21 IP 66			
Certificato:	ATEX CESI 09 ATEX 009			
	TR CU AVAILABLE			Per tutti i dati di certificazione TR CU scaricare il certificato dal sito <a href="http://www.cortemgroup.com">www.cortemgroup.com</a>
Standards:	CENELEC EN 60079-0: 2006, EN 60079-1: 2007, EN 60079-7: 2007, EN 61241-0: 2006, EN 61241-1: 2004, EN 60598-1:2008+A11:2009, EN 60598-2-1_1989, EN 61547: 2009 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0:2004, IEC 60079-1:2007, IEC 60079-7:2006, IEC 61241-0:2004, IEC 61241-1: 2004 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:	300°C (T2)	200°C (T3)		
Ambient temperature:	Standard -20°C +55°C	Special -50°C +55°C		
Degree of protection:	IP66			



## SLFE series Rectangular vertical floodlights



ORIGINAL PRODUCT

### MECHANICAL FEATURES

<b>Body:</b>	Low copper content aluminium alloy
<b>Glass face:</b>	Shock and high temperature resistant tempered glass
<b>Gaskets:</b>	Acid, hydrocarbon and high temperature resistant silicone
<b>Internal reflector:</b>	Anodised aluminium
<b>Supporting bracket</b>	Galvanised steel, thickness 5mm
<b>Mounting:</b>	3 x Ø15mm holes
<b>Bolts and screws:</b>	Stainless steel
<b>Entries:</b>	1xISO M25 entry. Floodlight complete with NAV25IB cable gland for non-armoured cable
<b>Coating:</b>	Polyester coating Ral 7035 (Light grey)
<b>Corrosion Resistance:</b>	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)

### ELECTRICAL FEATURES

<b>Lamp holder:</b>	E40 ceramic
<b>Rated voltage:</b>	230 V AC
<b>Rated frequency:</b>	50 Hz
<b>Connection:</b>	Direct connection to the terminal board L, N, Pe. Section 4 mm <sup>2</sup>
<b>Wiring:</b>	Silicone rubber cables with glass braid insulation for high temperatures
<b>Power factor:</b>	0.96

### ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Discharge lamp  
 Swivelling base for 360° rotation  
 Different rated voltages  
 Reinforced supporting bracket for mounting on mobile structures  
 Frame for mounting floodlight on pole

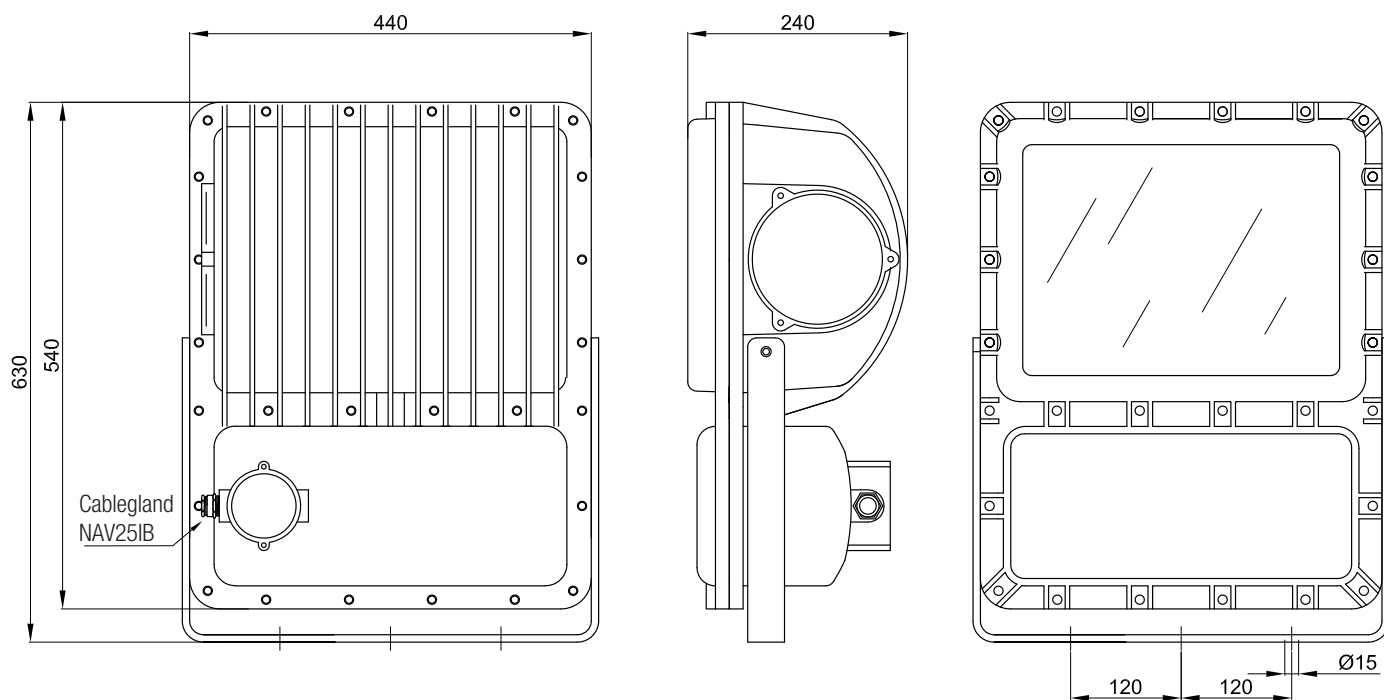


## SLFE series selection chart

Code	Lamp type	Lamp holder	Watt	Class T.a. +55°C	Max Temp. superf. °C	Weight kg	 mm
SLFE-40IM5	metal halide	E40	250	T3	163	36	660x500x270
SLFE-40IM6	metal halide	E40	400	T3	193	37	660x500x270
SLFE-40N5	sodium vapour	E40	250	T3	163	36	660x500x270
SLFE-40N6	sodium vapour	E40	400	T3	193	37	660x500x270
SLFE-40N7	sodium vapour	E40	600	T2	221	38	660x500x270

Ex de

### DIMENSIONAL DRAWING



Dimensions in mm

### DON'T FORGET TO ORDER THE ACCESSORIES

**Example:** Floodlight model  
SLFE-40N5

+

Discharge lamp  
LAMPNAV250W

+

other... see key


















## SLFE series Accessories and spare parts available on request

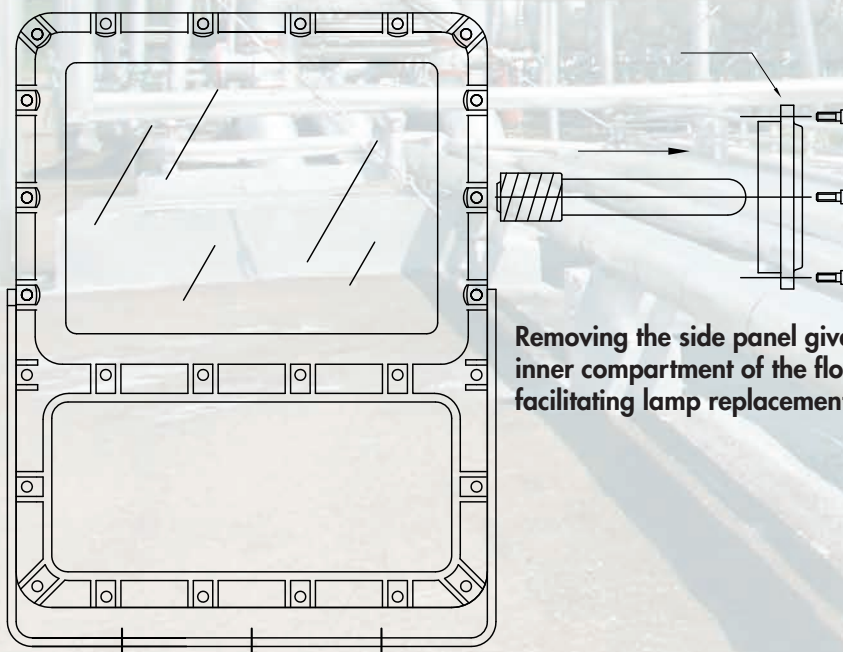
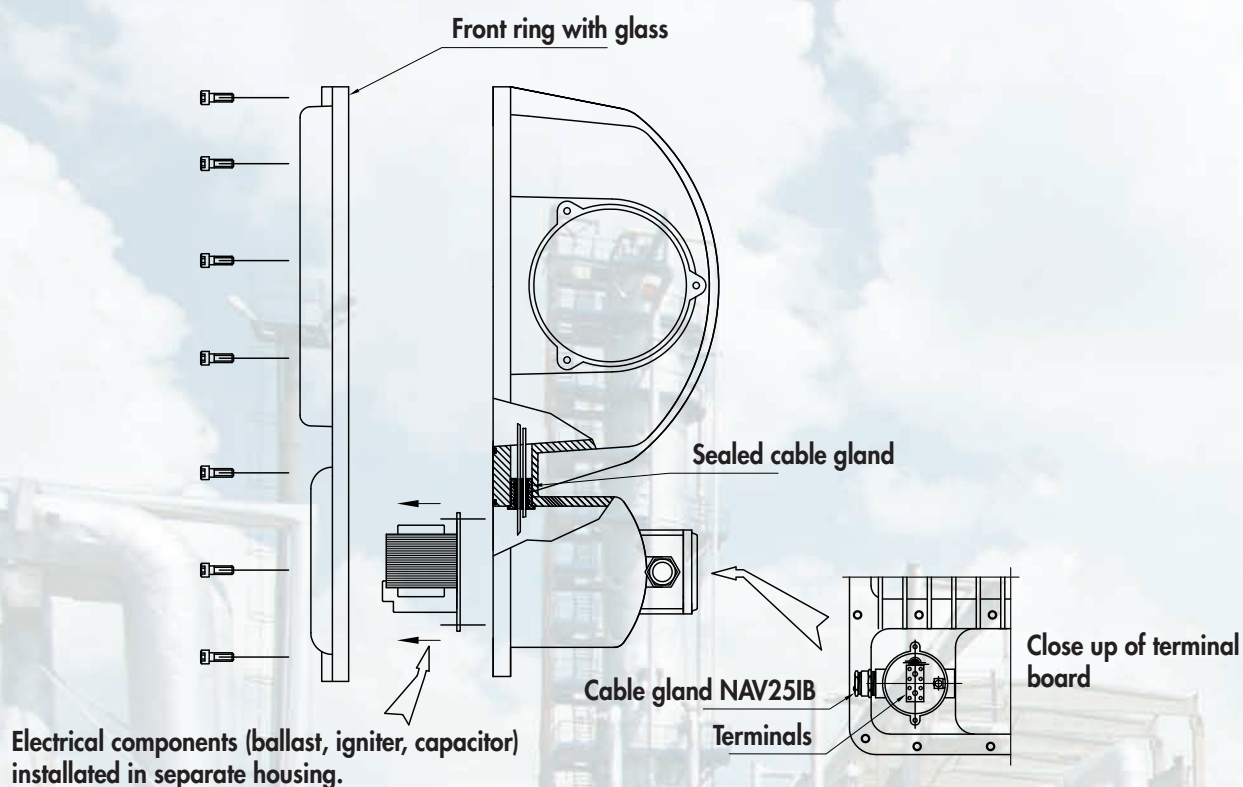
ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	High pressure sodium vapour lamp	E40	250 W (ST250W)	LAMPNAV250WPLU	 
			400 W (ST400W)	LAMPNAV400WPLU	
			600 W (ST600W)	LAMPNAV600WPLU	
	Metal halide lamp	E40	230 W (MT250W)	LAMP230WJMT	 
			360 W (MT400W)	LAMP360WJMT	
			600 W (MT600W)	LAMP600WJMT	
	Supporting bracket		Material: galvanised steel	G-558	
	Cable gland for non-armoured cable	ISO M25	(std. range cable 111÷20)	NAV25IB	
	Front ring with glass		In copper free aluminium with tempered glass front	G-0622	
	Reinforced supporting bracket for mounting on mobile structures		Material: galvanised steel	G-558/1	 

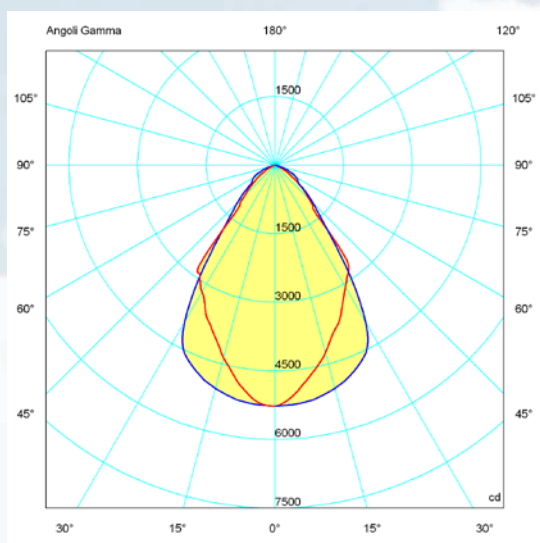
## SLFE series Accessories and spare parts available on request

Ex de

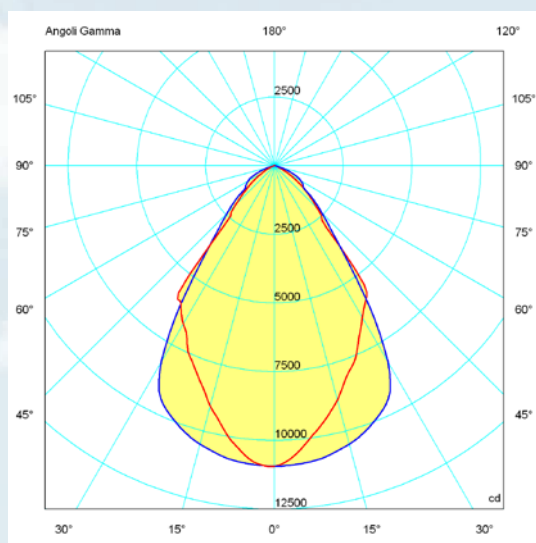
ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Reflector		Material: anodised aluminium	<b>G-555</b>	
	Ceramic lamp holder	E40	750W 16A	<b>PORT E-40</b>	
	Sodium vapour and metal halide ballast	250W	230V 50 Hz	<b>R-250 NA</b>	
		400W		<b>R-400 NA</b>	
	Metal capacitor for mercury vapour and metal halide	250W	20 µF 250V	<b>F-30</b>	
		400W	40 µF 250V	<b>F-40</b>	
	Metal capacitor for sodium vapour	250W	35 µF 250V	<b>F-35</b>	
		400W	50 µF 250V	<b>F-50</b>	
		600W	65 µF 250V	<b>F-65</b>	
	Igniter	250W 400W		<b>R 100</b>	
		600W 700W		<b>R 1000</b>	
	Frame for mounting floodlight on pole		Material: galvanised steel	<b>G-0534</b>	 
	Swivelling base for 360° rotation		Material: aluminium coating RAL 7035	<b>G-326 + G-327</b>	 

## Construction features

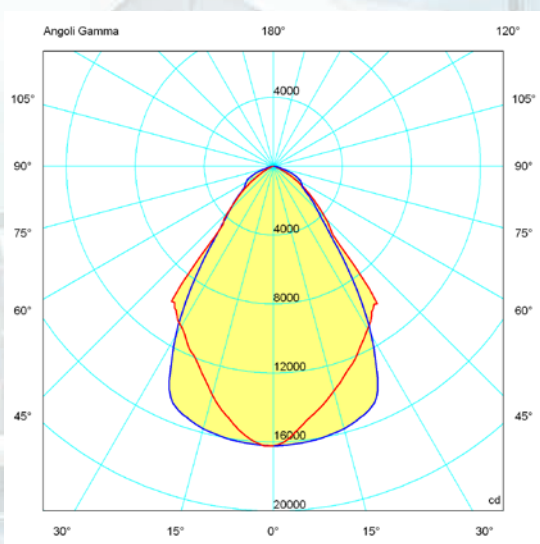




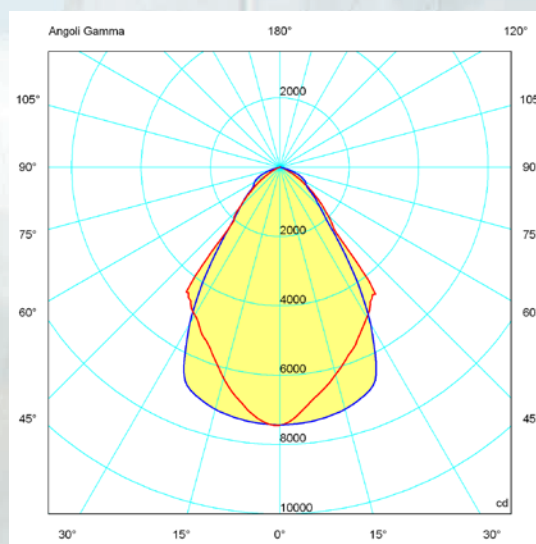
**SLFE-40 250W halide**



**SLFE-40 400W sodium**



**SLFE-40 250W sodium**



**SLFE-40 400W halide**

On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simulation of lighting levels in 2D and 3D, rendering and ray tracing.

— = plane 90270  
— = plane C 0180