

CURRENTLY IN PHASE-OUT EWE

- Suitable for installation with ambient temperature from -50°C to $+60^{\circ}\text{C}$
- Suitable for discharge lamps of up to 150W
- Suitable for loop-in/loop-out connections
- Zones 1, 2, 21, 22

Cooling
fins

4 Joule shock
resistant
borosilicate
glass globe

Stainless steel
protective guard

Ex terminal box housing for
fast connection



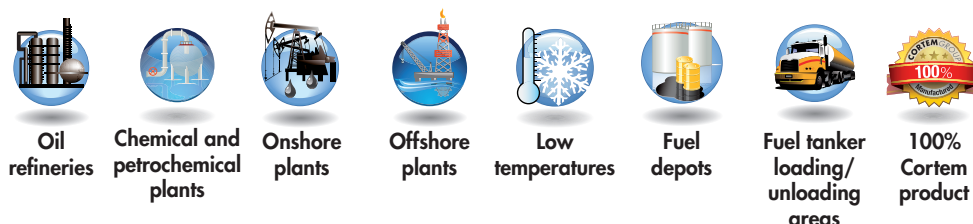
EWE series Lighting fixtures for discharge lamps of up to 150W

Ex de








EWE series of lighting fixtures for discharge lamps has been designed in compliance with ATEX Directive 2014/34/UE for all those areas defined as "hazardous" due to the presence of potentially explosive flammable gases and dusts where good local lighting is a necessity. The low copper content aluminium alloy lamp body has cooling fins for better heat dissipation that ensures a longer lifespan and more effective electrical consumption. The borosilicate glass globe has excellent thermal and mechanical properties. For this reason, the fixture can also be installed without a protective guard. The resistance of this lighting fixture to high (+60°C) and low (-50°C) temperatures makes it ideal for use in any type of climatic condition and it can be used in plants worldwide.

In EWE series, the lamp and lamp holder are separated by a "chamber" housing the ballast and igniter. The chamber itself is separated by a "Ex e" terminal box. This box is used to connect the lighting fixture to the power supply through a cable gland with an Ex (non barrier) seal as specified in EN/IEC 60079-14. This easy access to the different "chambers" housing the electrical components helps reducing installation and maintenance costs.

Application sectors



CERTIFICATION DATA

Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zona 1 - zona 2 (Gas)	zona 21 - zona 22 (Dust)		
Marking:	CE 0722 Ex II 2GD Ex de IIC T.. Gb - Ex tb IIIC T..°C Db IP66			
Certification	ATEX	CESI 12 ATEX 006		
	IEC Ex	CES 07.0004	All IEC Ex and TR CU certification data can be downloaded at www.cortemgroup.com	
	TR CU	DISPONIBILE		
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-31: 2009 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-31: 2008 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:	 See selection chart			
 Max surface temperature:	 Standard -20°C +60°C 	 Special -50°C +60°C 		
Degree of protection:	IP66			

EWE series Lighting fixtures for discharge lamps up to 150W



ORIGINAL PRODUCT

MECHANICAL FEATURES

Body:	Low copper content aluminium alloy
Globe:	Shock and temperature resistant borosilicate glass sealed with aluminium shade ring
Gaskets:	Silicone acid/hydrocarbon resistant
Guard:	Electro-polished stainless steel. Can also be supplied on request without a guard as the lighting fixture has passed the glass breakage test (4 Joule EN60079-0 / IEC60079-0)
Mounting:	See "EWE series dimensional drawings"
Bolts and screws:	Stainless steel
Entries:	ISO M25 threads
Coating:	Epoxy coating Ral 7035 (Light grey)
Corrosion Resistance:	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)


ELECTRICAL FEATURES

Lamp holder:	E27 or E40 ceramic
Ballast:	Electromechanical
Rated voltage:	230 V AC
Rated frequency:	50 Hz
Connection:	Direct connection to the terminal box L, N, Pe. Section 4mm ² , suitable for entry/exit
Power factor:	0.96
Wiring:	Silicone rubber cables with glass braid insulation for high temperatures

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Discharge lamp
 Different rated voltages
 Rated frequency: 60 Hz at 230 V (code EWE-5070N1/**60**)
 External reflector
 Cable gland: NAV20IB for armoured cable or NEV20IB for non-armoured cable
 30° supporting bracket

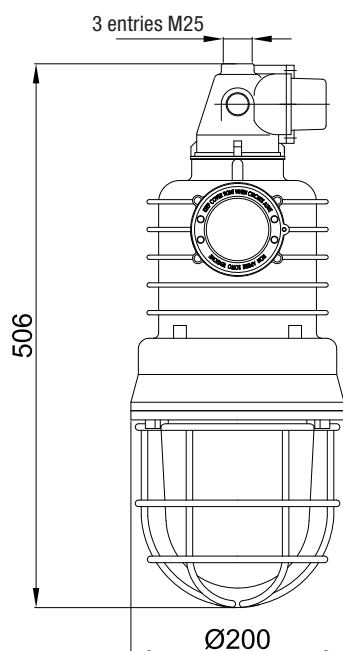
EWE series selection chart

Code	Lamp type	Lamp holder	Watt	Class Ta=+60°C	Max surface temperature °C	Weight kg	 mm
EWE-5070N1	Sodium vapour	E 27	70	T4	130	7,7	260x210x580
EWE-5070N2	Sodium vapour	E 40	100	T4	126	8,1	260x210x580
EWE-5070IM1	Metal halide	E 27	70	T4	126	7,7	260x210x580
EWE-5070IM2	Metal halide	E 27	100	T4	128	7,8	260x210x580
EWE-5070IM4	Metal halide	E 27	150	T3	161	8,6	260x210x580

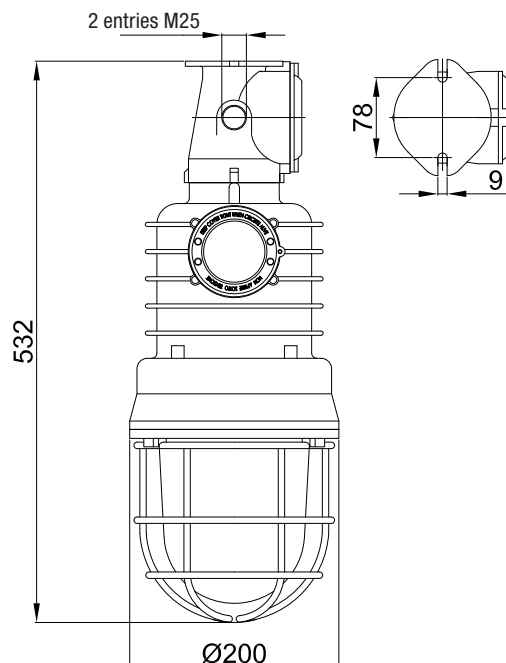
EWES-5070N1	Sodium vapour	E 27	70	T4	130	7,4	260x210x580
EWES-5070N2	Sodium vapour	E 40	100	T4	126	7,8	260x210x580
EWES-5070IM1	Metal halide	E 27	70	T4	128	7,4	260x210x580
EWES-5070IM2	Metal halide	E 27	100	T4	128	7,5	260x210x580
EWES-5070IM4	Metal halide	E 27	150	T3	161	8,5	260x210x580

DIMENSIONAL DRAWINGS

EWE-5070... Pendant mounting



EWES-5070... Ceiling mounting



Dimensions in mm

DON'T FORGET TO ORDER THE ACCESSORIES

Example: Type of lighting fixture +
EWE-5070N2

Lampada
LAMPNAV10 0W

+ Dome reflector G70-427DI + other... see key


















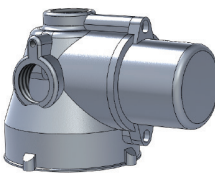

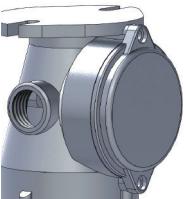



EWE series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	High pressure sodium vapour lamp	E27	70 W (SE70W)	LAMPNAV70WPLUS	 
		E40	100 W (SE100W)	LAMPNAV100WPLUS	
	Metal halide lamp	E27	100 W (ME100W)	LAMP100WJM	 
			150 W (ME150W)	LAMP150WJM	
	Cable gland		For models and codes, visit www.cortemgroup.com	NAV25IB NEV25IB	 
	O-ring		Material: silicone	G70-427 G70-427IN	
	Ballast for sodium vapour and metal halide lamp		70 W	R-70NAAP	
			100 W	R-100NA	
			150 W	R-150NA	
	Metallic capacitor	5070N1	12,5µF 250V	F-12,5	
		5070N2	12,5µF 250V	F-12,5	
		5070IM2	12,5µF 250V	F-12,5	
		5070IM4	20µF 250V	F-20	
	Ceramic lamp holder	E27 E40	250V 4A 750V 16A	PORT E-27 PORT E-40	
	Igniter		50-400 W	R100	
	Globe with shade ring		Borosilicate glass globe Threaded aluminium shade ring	G70-0440CM	

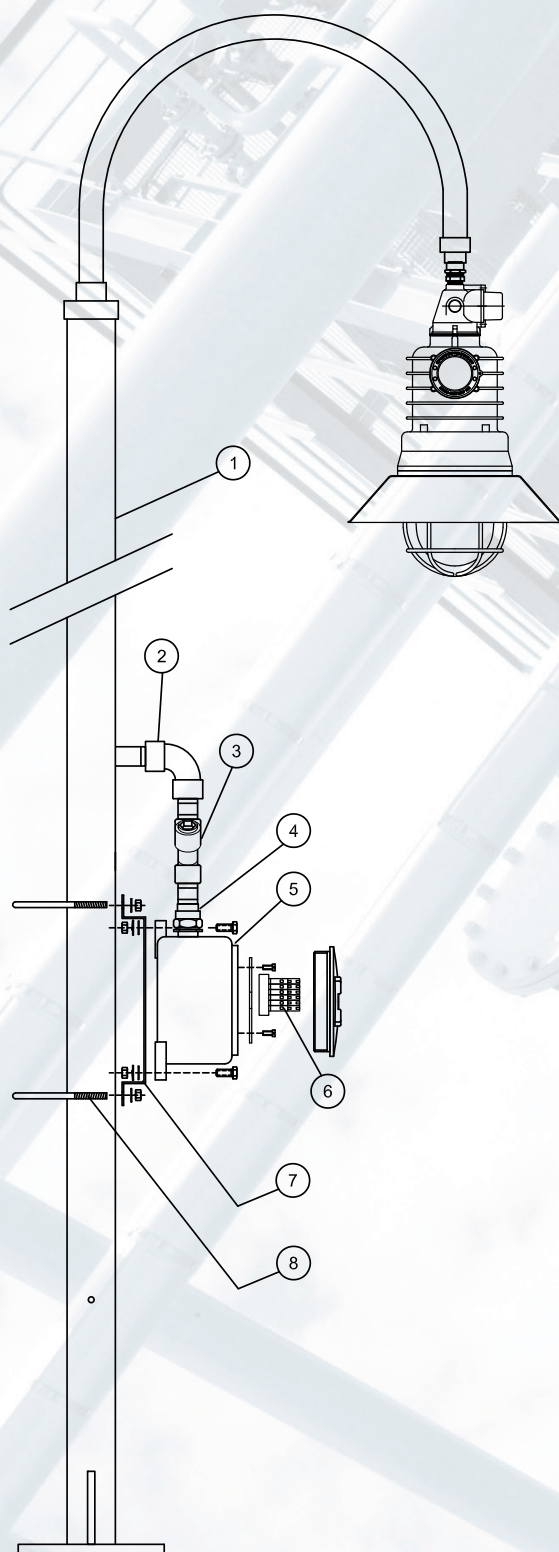
EWE series Accessories and spare parts available on request

Ex de

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Reflector		White painted aluminium Stainless steel	G70-427 G70-427IN	 
	Dome reflector		Contact our Sales Office for availability		 
	30° inclined dome reflector		White painted aluminium	G70-427DI	 
	Protective guard		Material: Electro-polished stainless steel	G70-0417	
	ISO M25-M8 Pendant eyebolt with reduction		In galvanised steel	G0F-8 + PLG2IG/8	 
	30° support bracket EWES		In galvanised steel	G-663	 
	Ex e pendant mounting EWE		3 x entries ISO M25	G-0444	
	Ex e ceiling mounting EWAE		2 x entries ISO M25	G-0439	

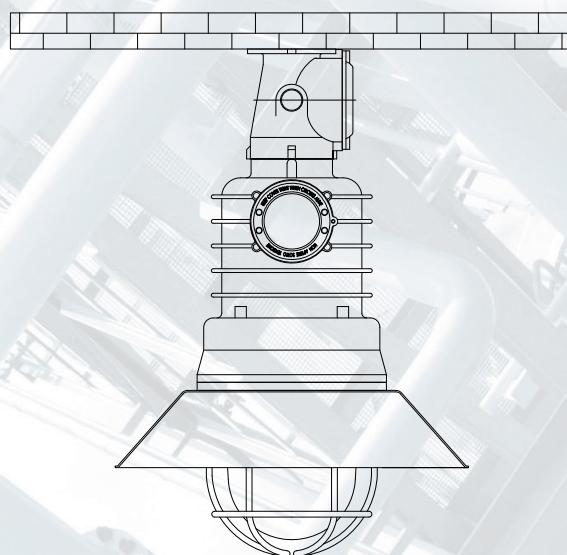
Methods of installation and assembly

Example of pole mounting

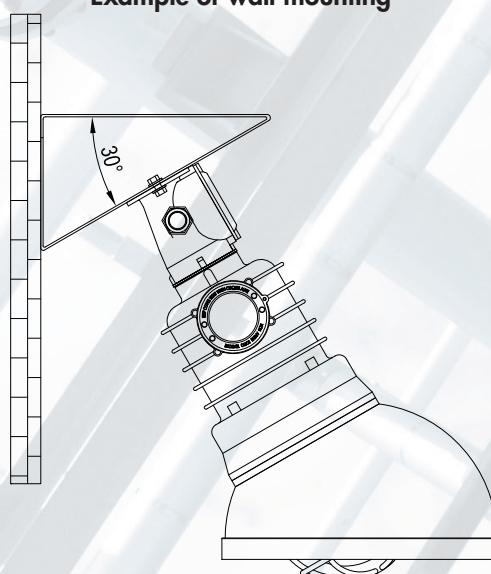


1. Hot dip galvanised steel pole
2. ELF curve
3. EYS sealing fitting
4. RMM 3-piece union
5. GUB-01 junction box
6. Terminal box
7. Support frame
8. UBD clevis

Example of ceiling mounting

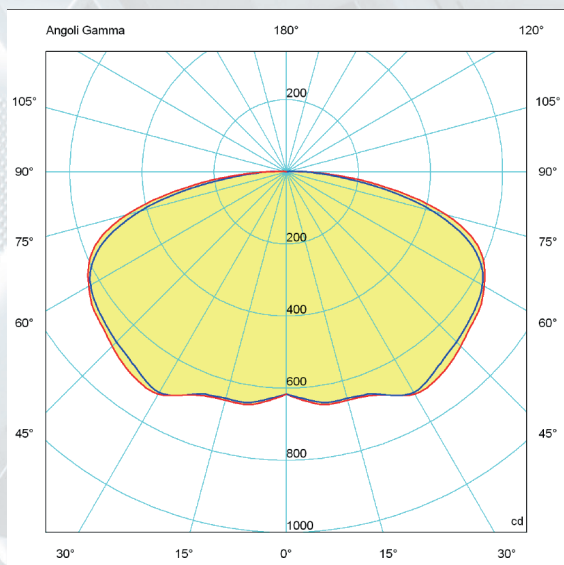


Example of wall mounting

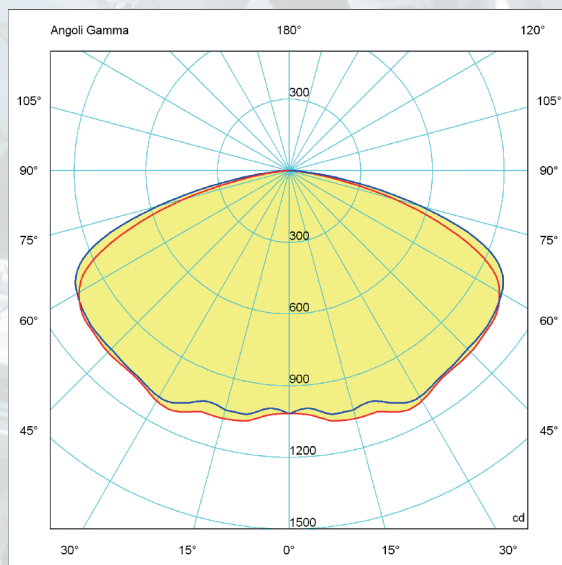


Photometric diagram

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EWE-5070 70W sodium



EWE-5070 100W sodium

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 0180