

EVE

- Optimal performance at high (+60°C) and low (-50°C) temperatures
- Easy to install, low maintenance costs
- Zone 1, 2, 21, 22

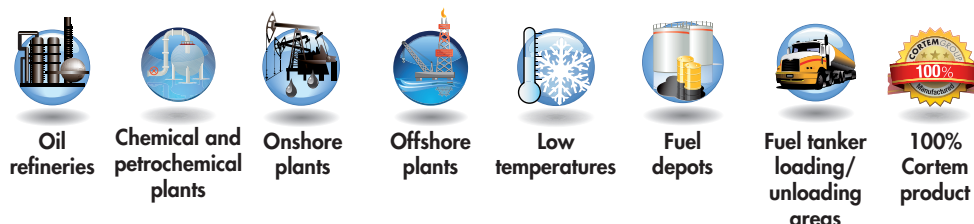


EVE series Lighting fixtures for traditional and LED lamps

Ex de

EVE series lighting fixtures have been specially designed for use in the petrochemical and oil refining industries as they combine beauty and functionality along with high performance and simplicity in complete compliance with the technological requirements of the "Ex sector". The low copper content aluminium alloy, shockproof borosilicate glass and electropolished stainless steel components make these lighting fixtures ideal for use in environments with corrosive atmospheric agents, salts and industrial pollution. Mechanical characteristics such as ceramic lamp holders with high heat resistance and insulating properties and acid-proof silicone gaskets guarantee a long working life with little maintenance. Scheduled maintenance work involves simply cleaning the glass that, thanks to its IP66 protection, can be safely cleaned with a wet cloth. Electrical connection is made via a terminal box in a "Ex e" compartment that allows the entry to the lighting fixture through an "Ex" O-ring (non barrier) cable gland as specified in the installation specification standards (EN/IEC 60079-14).

Application sectors



CERTIFICATION DATA

Classification:	Group II	Categoria 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 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	AVAILABLE		
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2009 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-7: 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 the selection table		
 Ambient temperature:	 Standard -20°C +60°C 	 Special -50°C +60°C not possible for model EVE...100 		
Degree of protection:	IP66			

EVE series Lighting fixtures for traditional and LED lamps



ORIGINAL PRODUCT

MECHANICAL FEATURES

Body:	Low copper content aluminium alloy
Globe:	Shock and temperature resistant borosilicate glass with aluminium shade ring
Gaskets:	Acid/hydrocarbon resistant silicone
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 "EVE series dimensional drawings"
Bolts and screws:	Stainless steel
Entries:	See "EVE series dimensional drawings"
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)

ELECTRICAL FEATURES

Lamp holder:	E27 or E40 ceramic
Rated voltage:	230 V AC
Rated frequency:	50/60 Hz
Connection:	Direct connection to the terminal box L, N, Pe. Section 4mm ²

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

LED lamps
 External reflector
 Cable gland: NAV25IB for armored or NEV25IB for non-armored cable
 Warning signs: G-0513
 Swivel bracket for inclined mounting

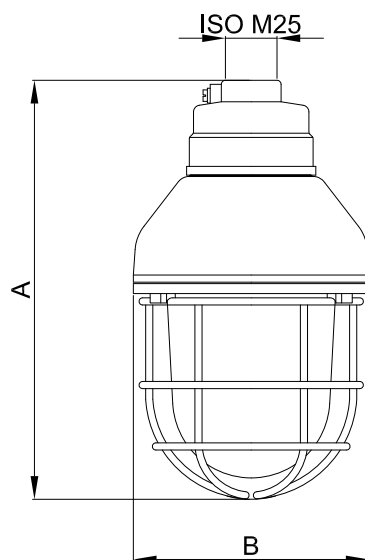
EVEA series selection chart Pendant mounting

Ex de

Code	Dimensions mm		Lamp type	Lamp holder	Watt	Class Ta=+60°C	Max Surface Temperature °C	Weight kg	 mm
	A	B							
EVEA-5050	261	150	AL	E 27	70	T4	123	1,9	160x150x330
EVEA-5050	261	150	AL	E 27	105	T3	154	1,9	160x150x330
EVEA-5050	261	150	AL	E 27	140	T3	154	1,9	160x150x330
EVEA-5050	261	150	ELS	E 27	15	T6	84	1,9	160x150x330
EVEA-5050	261	150	LED	E 27	8	T6	74	1,9	160x150x330
EVEA-5050	323	170	EL	E 27	23	T5	86	2,7	190x170x390
EVEA-5060	323	170	ELS	E 27	23	T5	86	2,7	190x170x390
EVEA-5060	323	170	LED	E 27	12	T6	74	2,7	190x170x390
EVEA-5070	357	200	MIX	E 27	100	T3	152	3,7	210x200x430
EVEA-5070	357	200	MIX	E 27	160	T3	152	3,7	210x200x430
EVEA-5070	357	200	EL	E 27	33	T6	83	3,7	210x200x430
EVEA-5080	430	220	MIX	E 40	250	T3	166	6,0	230x220x510
EVEA-5080	430	220	ELS	E 27	42	T5	89	6,0	230x220x510
EVEA-50100	489	280	ELS	E 40	75	T5	88	8,7	280x280x850
EVEA-50100	489	280	ELS	E 40	105	T5	91	8,7	280x280x850
EVEA-50100	489	280	MIX	E 40	500	T3	185	8,7	280x280x850

PHASE OUT

EVEA Pendant mounting



Key

EL = Linear tubes (FBT)
 AL = Halogen (HSGSA)
 MIX = Mixed light (QB)
 ELS = Spiral tubes (FB)
 LED = With LED (DB)

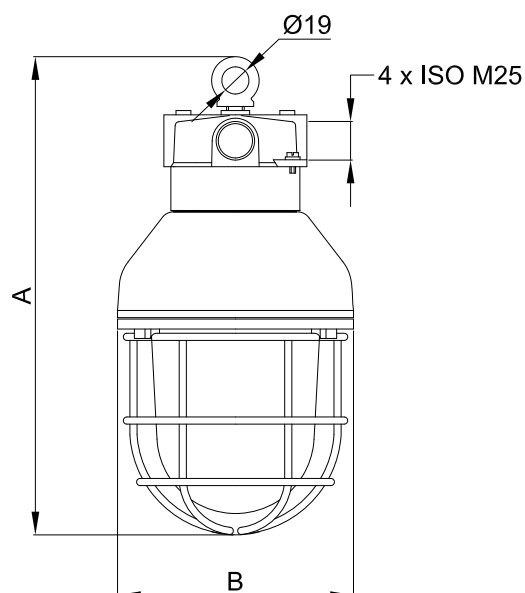
Dimensions in mm

EVEGC series selection chart Pendant mounting with eyebolt

PHASE OUT

Code	Dimensions mm		Lamp type	Lamp holder	Watt	Class Ta=+60°C	Max Surface temperature °C	Weight kg	 mm
	A	B							
EVEGC-5050	296	150	AL	E 27	70	T4	123	2,1	160x150x330
EVEGC-5050	296	150	AL	E 27	105	T3	154	2,1	160x150x330
EVEGC-5050	296	150	AL	E 27	140	T3	154	2,1	160x150x330
EVEGC-5050	296	150	ELS	E 27	15	T6	84	2,1	160x150x330
EVEGC-5050	296	150	LED	E 27	8	T6	74	2,1	160x150x330
EVEGC-5060	358	170	EL	E 27	23	T5	86	2,8	190x170x390
EVEGC-5060	358	170	ELS	E 27	23	T5	86	2,8	190x170x390
EVEGC-5060	358	170	LED	E 27	12	T6	74	2,8	190x170x390
EVEGC-5070	389	200	MIX	E 27	100	T3	152	4,5	210x200x430
EVEGC-5070	389	200	MIX	E 27	160	T3	152	4,5	210x200x430
EVEGC-5070	389	200	EL	E 27	33	T6	83	4,5	210x200x430
EVEGC-5080	465	220	MIX	E 40	250	T3	166	6,3	230x220x510
EVEGC-5080	465	220	ELS	E 27	42	T5	89	6,3	230x220x510
EVEGC-50100	524	280	ELS	E 40	75	T5	88	9,2	280x280x850
EVEGC-50100	524	280	ELS	E 40	105	T5	91	9,2	280x280x850
EVEGC-50100	524	280	MIX	E 40	500	T3	185	9,2	280x280x850

EVEGC Pendant mounting with eyebolt



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Dimensions in mm

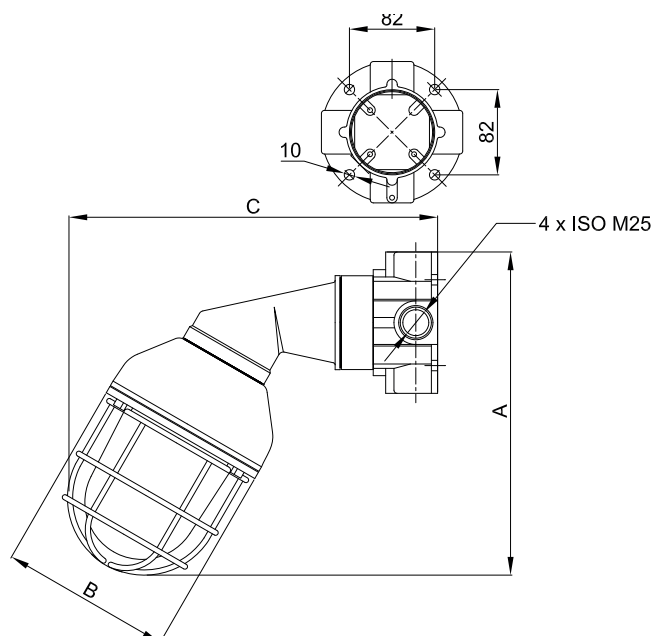
EVEIX series selection chart Wall mounting

Ex de

Code	Dimensions mm			Lamp type	Lamp holder	Watt	Class Ta=+60°C	Max Surface temperature °C	Weight kg	 mm
	A	B	C							
EVEIX-5050	285	150	310	AL	E 27	70	T4	123	2,9	190x170x390
EVEIX-5050	285	150	310	AL	E 27	105	T3	154	2,9	190x170x390
EVEIX-5050	285	150	310	AL	E 27	140	T3	154	2,9	190x170x390
EVEIX-5050	285	150	310	ELS	E 27	15	T6	84	2,9	190x170x390
EVEIX-5050	285	150	310	LED	E 27	8	T6	74	2,9	190x170x390
EVEIX-5060	339	170	344	EL	E 27	23	T5	86	3,7	260x210x490
EVEIX-5060	339	170	344	ELS	E 27	23	T5	86	3,7	260x210x490
EVEIX-5060	339	170	344	LED	E 27	12	T6	74	3,7	260x210x490
EVEIX-5070	368	200	365	MIX	E 27	100	T3	152	4,7	260x210x490
EVEIX-5070	368	200	365	MIX	E 27	160	T3	152	4,7	260x210x490
EVEIX-5070	368	200	365	EL	E 27	33	T6	83	4,7	260x210x490
EVEIX-5080	435	220	409	MIX	E 40	250	T3	166	7,5	240x240x700
EVEIX-5080	435	220	409	ELS	E 27	42	T5	89	7,5	240x240x700
EVEIX-50100	488	280	448	ELS	E 40	75	T5	88	8,7	280x280x850
EVEIX-50100	488	280	448	ELS	E 40	105	T5	91	8,7	280x280x850
EVEIX-50100	488	280	448	MIX	E 40	500	T3	185	8,7	280x280x850

PHASE OUT

EVEIX Wall mounting with 30° bracket



Key

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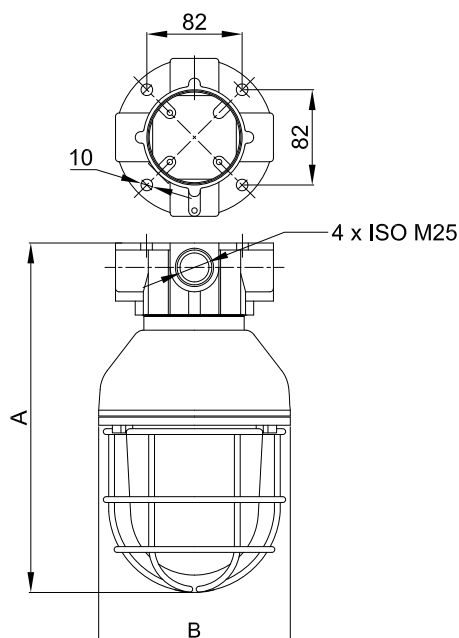
Dimensions in mm

EVEX series selection chart Ceiling mounting

PHASE OUT

Code	Dimensions mm		Lamp type	Lamp holder	Watt	Class Ta=+60°C	Max Surface temperature °C	Weight kg	 mm
	A	B							
EVEX-5050	260	150	AL	E 27	70	T4	123	1,9	160x150x330
EVEX-5050	260	150	AL	E 27	105	T3	154	1,9	160x150x330
EVEX-5050	260	150	AL	E 27	140	T3	154	1,9	160x150x330
EVEX-5050	260	150	ELS	E 27	15	T6	84	1,9	160x150x330
EVEX-5050	260	150	LED	E 27	8	T6	74	1,9	160x150x330
EVEX-5060	322	170	EL	E 27	23	T5	86	3,3	190x170x390
EVEX-5060	322	170	ELS	E 27	23	T5	86	3,3	190x170x390
EVEX-5060	322	170	LED	E 27	12	T6	74	3,3	190x170x390
EVEX-5070	353	200	MIX	E 27	100	T3	152	4,5	210x200x430
EVEX-5070	353	200	MIX	E 27	160	T3	152	4,5	210x200x430
EVEX-5070	353	200	EL	E 27	33	T6	83	4,5	210x200x430
EVEX-5080	429	220	MIX	E 40	250	T3	166	4,5	210x200x430
EVEX-5080	429	220	ELS	E 27	42	T5	89	7,6	230x220x510
EVEX-50100	488	280	ELS	E 40	75	T5	88	7,6	230x220x510
EVEX-50100	488	280	ELS	E 40	105	T5	91	8,8	280x280x850
EVEX-50100	488	280	MIX	E 40	500	T3	185	8,8	280x280x850

EVEX Ceiling mounting



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Dimensions in mm

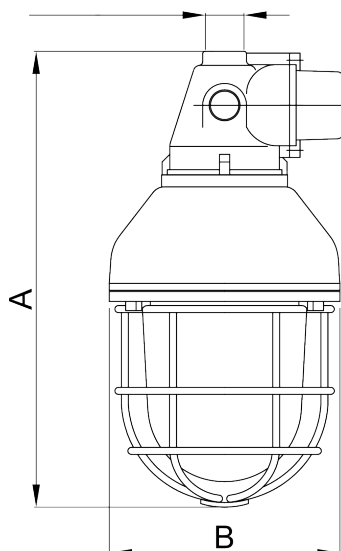
Selection chart for lighting fixtures with loop-in/loop out systems

Ex de

Code	Dimensions mm		Lamp type	Lmap holder	Watt	Class Ta=+60°C	Max Surface temperature °C	Weight kg	 mm
	A	B							
EVE -5050	294	150	AL	E 27	70	T4	123	2,2	160x150x330
EVE -5050	294	150	AL	E 27	105	T3	154	2,2	160x150x330
EVE -5050	294	150	AL	E 27	140	T3	154	2,2	160x150x330
EVE -5050	294	150	ELS	E 27	15	T6	84	2,2	160x150x330
EVE -5050	294	150	LED	E 27	8	T6	74	2,2	160x150x330
EVE-5060	356	170	EL	E 27	23	T5	86	3,5	190x170x390
EVE-5060	356	170	ELS	E 27	23	T5	86	3,5	190x170x390
EVE-5060	356	170	LED	E 27	12	T6	74	3,5	190x170x390
EVE-5070	387	200	MIX	E 27	100	T3	152	4,1	210x200x430
EVE-5070	387	200	MIX	E 27	160	T3	152	4,1	210x200x430
EVE-5070	387	200	EL	E 27	33	T6	83	4,1	210x200x430
EVE-5080	463	220	MIX	E 40	250	T3	166	6,5	230x220x510
EVE-5080	463	220	ELS	E 27	42	T5	89	6,5	230x220x510
EVE-50100	523	280	ELS	E 40	75	T5	88	9,0	280x280x510
EVE-50100	523	280	ELS	E 40	105	T5	91	9,0	280x280x510
EVE-50100	523	280	MIX	E 40	500	T3	185	9,0	280x280x510

PHASE OUT

EVE Pendant mounting



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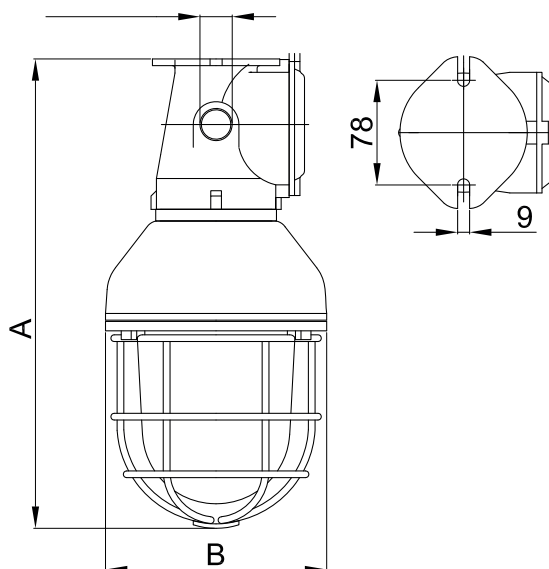
Dimensions in mm

Selection chart for lighting fixtures with loop-in/loop out systems

PHASE OUT

Code	Dimensions mm		Lamp type	Lamp golder	Watt	Classe Ta=+60°C	Max Surface temperature °C	Weight kg	 mm
	A	B							
EVES -5050	317	150	AL	E 27	70	T4	123	2,7	160x150x330
EVES -5050	317	150	AL	E 27	105	T3	154	2,7	160x150x330
EVES -5050	317	150	AL	E 27	140	T3	154	2,7	160x150x330
EVES -5050	317	150	ELS	E 27	15	T6	84	2,7	160x150x330
EVES -5050	317	150	LED	E 27	8	T6	74	2,7	160x150x330
EVES-5060	379	170	EL	E 27	23	T5	86	3,5	190x170x390
EVES-5060	379	170	ELS	E 27	23	T5	86	3,5	190x170x390
EVES-5060	379	170	LED	E 27	12	T6	74	3,5	190x170x390
EVES-5070	410	200	MIX	E 27	100	T3	152	4,0	210x200x430
EVES-5070	410	200	MIX	E 27	160	T3	152	4,0	210x200x430
EVES-5070	410	200	EL	E 27	33	T6	83	4,0	210x200x430
EVES-5080	486	220	MIX	E 40	250	T3	166	6,5	230x220x510
EVES-5080	486	220	ELS	E 27	42	T5	89	6,5	230x220x510
EVES-50100	546	280	ELS	E 40	75	T5	88	9,0	280x280x510
EVES-50100	546	280	ELS	E 40	105	T5	91	9,0	280x280x510
EVES-50100	546	280	MIX	E 40	500	T3	185	9,0	280x280x510

EVES Ceiling mounting



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Dimensions in mm

DON'T FORGET TO ORDER THE ACCESSORIES

Example: Type of lighting fixture +
EVEA-5060

Lamp
LAMP-PL23

+

Dome reflector
G60-427D

+

other... see key



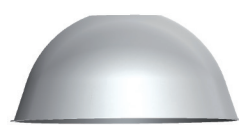
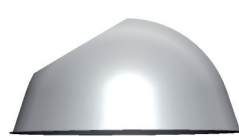
EVE... series Accessories and spare parts available on request

Ex de

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	LED lamp	E27	8 W (DB8W)	LAMPLED8W	 
		E27	12 W (DB12W)	LAMPLED12W	
	Cable gland		For models and codes, visit www.cortemgroup.com	NAV25IB NEV25IB	 
	Swivel bracket for inclined mounting (see example in installation methods)	50	Material: galvanised steel	G-0543	 
		60			
		70			
	Protective guard	50	Material: electro-polished stainless steel	G50-0417	
		60		G60-0417	
		70		G70-0417	
		80		G80-0417	
		100		G100-0417	
	Ceramic lamp holder	E27	250 V 4 A	PORT E-27	
		E40	750 V 16 A	PORT E-40	
	O-ring	Globo 50	Material: silicone	OR-4512SH70S	
		Globo 60		K15-131S	
		Globo 70		K33-131S	
		Globo 80		K34-131S	
		Globo 100		K27-131S	

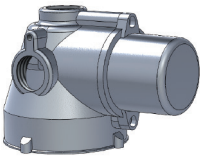
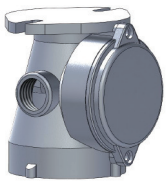
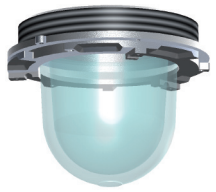
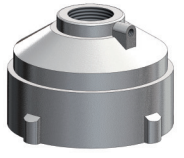
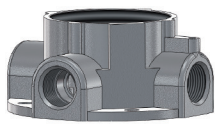
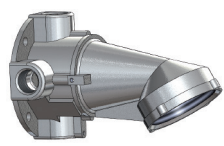
EVE... series Accessories and spare parts available on request

Ex de

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Warning signs on the frame	50	Materials: translucent film on plexiglass and aluminium frame	G-0513	 
		60		G-0513/1	
	Emergency Exit	G-0513 G-0513/1	Material: film translúcido	U-420/P	 
	Emergency Exit on the right			U-420/P1	
	Emergency Exit on the left			U-420/P2	
	Emergency Exit upward			U-420/P3	
	Emergency Exit downward			U-420/P4	
	Reflector	50	White painted aluminium Stainless steel	G50-427 G50-427IN	 
		60	White painted aluminium Stainless steel	G60-427 G60-427IN	
		70	White painted aluminium Stainless steel	G70-427 G70-427IN	
		80	White painted aluminium Stainless steel	G80-427 G80-427IN	
		100	White painted aluminium Stainless steel	G100-427 G100-427IN	
	Dome reflector	50	Contact our Sales Office for availability		 
		60	White painted aluminium	G60-427D	
		70	Contact our Sales Office for availability		
		80	White painted aluminium	G80-427D	
		100	White painted aluminium	G100-427D	
	30° inclined dome reflector	50	Contact our Sales Office for availability		 
		60	White painted aluminium	G60-427DI	
		70	White painted aluminium	G70-427DI	
		80	White painted aluminium	G80-427DI	
		100	Contact our Sales Office for availability		

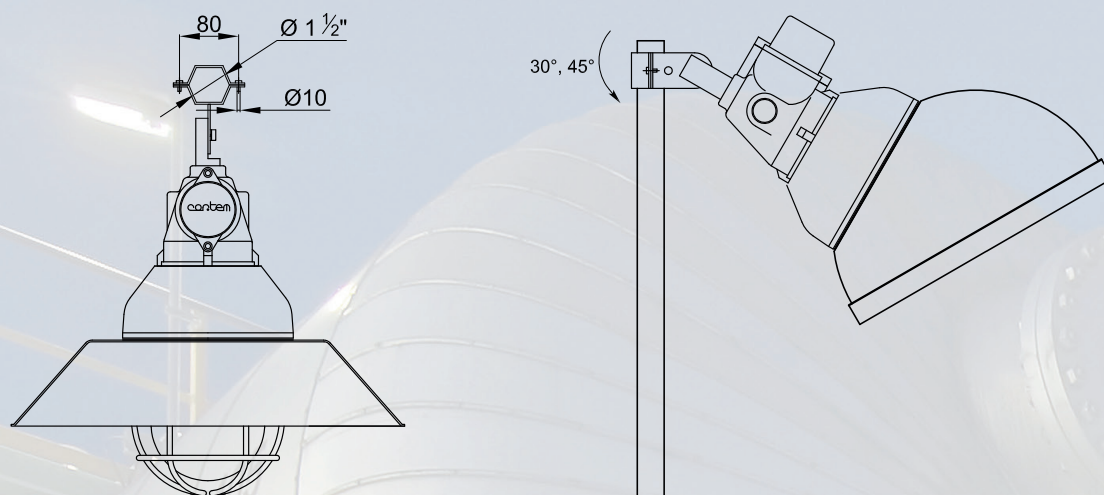
EVE... series Accessories and spare parts available on request

Ex de

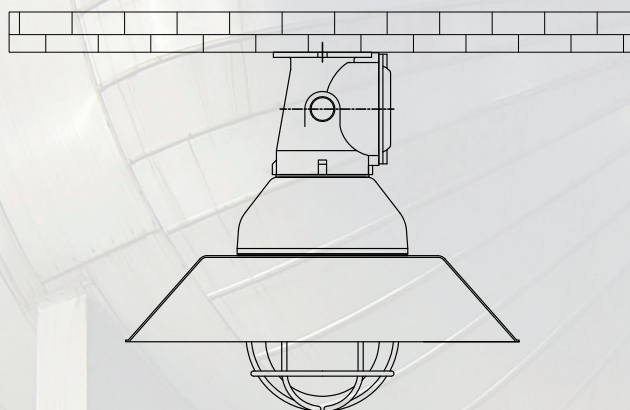
ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Ex e pendant mounting EVE	50	3 x entries ISO M25	G-0444	
		60			
		70			
		80			
		100			
	Attacco tipo Ex e a soffitto EVES	50	2 x entries ISO M25	G-0439	
		60			
		70			
		80			
		100			
	Globe with shade ring	50	Borosilicate glass globe Threaded aluminium shade ring	G50-0440CM	
		60		G60-0440CM	
		70		G70-0440CM	
		80		G80-0440CM	
		100		G100-0440CM	
	Pendant eyebolt		Material: galvanised steel	G0F-8	
	Pendant mounting EVEA	50	1 x ISO M25 entry	G-0213I	
		60			
		70			
		80			
		100			
	Pendant mounting with eyebolt EVEGC	50	4 x ISO M25 entries	G-0216I	
		60			
		70			
		80			
		100			
	Ceiling mounting EVEX	50	4 x ISO M25 entries	G-0214I	
		60			
		70			
		80			
		100			
	Wall mounting with 30° bracket	50	4 x ISO M25 entries	G-0215I	
		60			
		70			
		80			
		100			

Installation and mounting methods

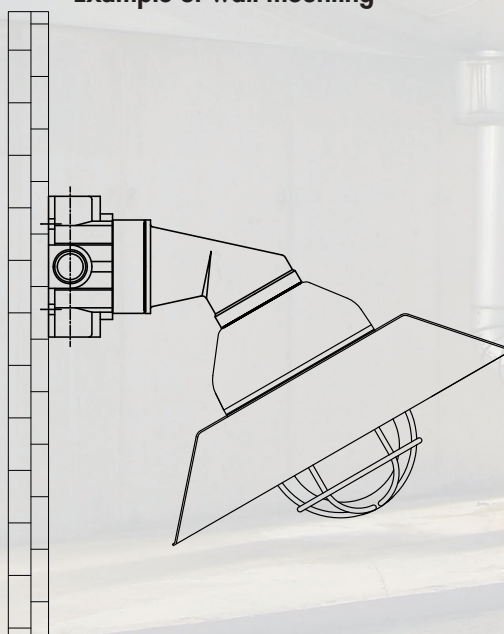
Example of swivel bracket mounting



Example of ceiling mounting
with lighting fixture for loop-in/loop-out



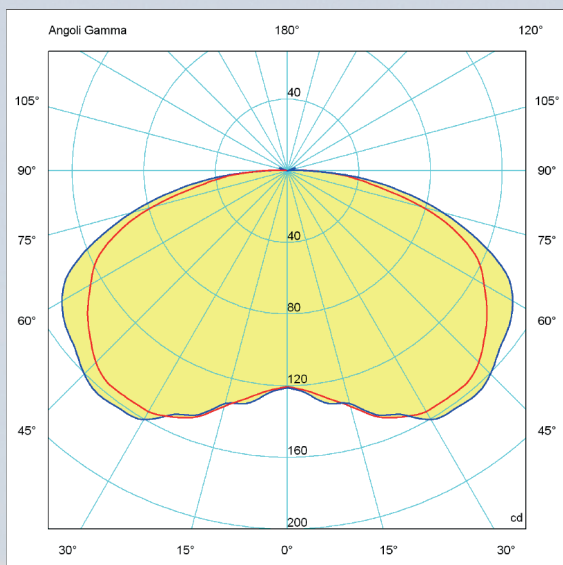
Example of wall mounting



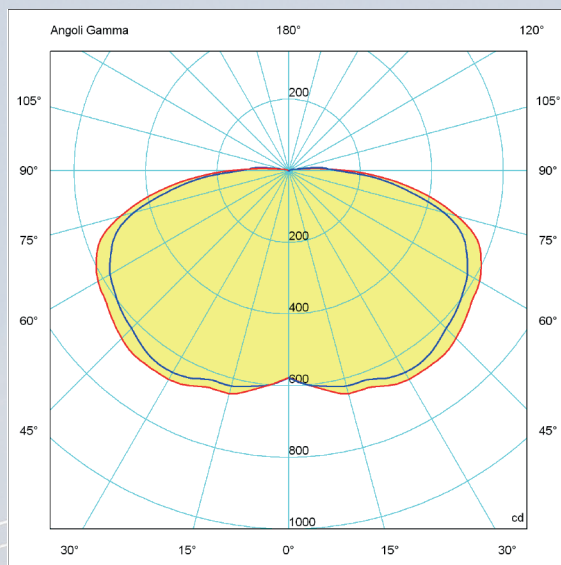
Dimensiones en mm

Photometric diagram

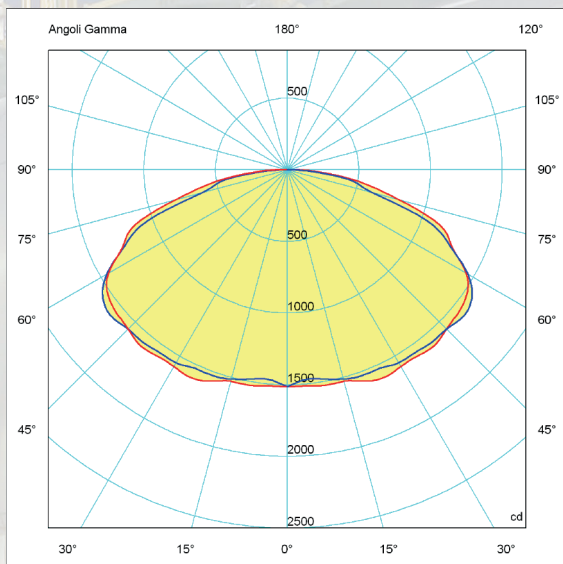
Ex de



EVE..5060 23W EL



EVE..5080 250W MIX



EVE..50100 500W MIX

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