EVE-L

- Zone 1, 2, 21, 22
- LED Remote Phosphor Technology
- Saving in energy, maintenance and installation costs
- Instant illumination
- Bright comfort

4 Joule shock resistant borosilicate glass globe



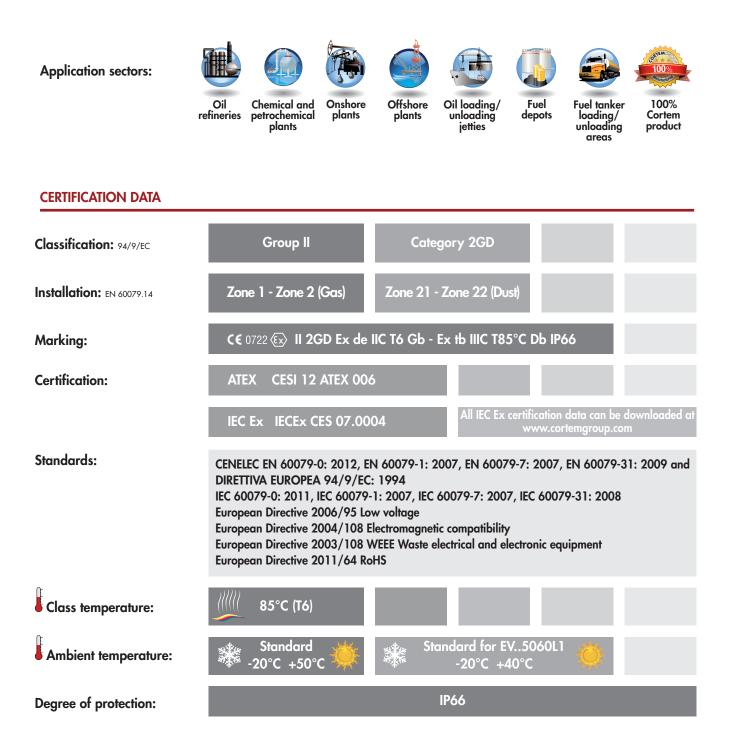
LED Remote Phosphor Technology

Stainless Steel Protective guard



EVE...L series Lighting Fixture with LED Remote Phosphor Technology

EVE-5050L, EVE-5060L and EVE-5060L1 series Cortem lighting fixtures are designed to provide an optimal replacement to the conventional incandescent lamps and to provide a valid alternative for the energy-saving lamps in hazardous areas where it's necessary to light up using light sources close to the operator and to the equipment. The peculiarity of these new lighting fixtures consists in the use of the LED Remote Phosphor Technology on explosion-proof lighting fixtures. This represent an absolute evolution in the world of LEDs and an important step forward in terms of energy efficiency, lighting efficiency and chromatic yield quality. The LED Remote Phosphor Technology is based on a yellow semi-spherical light diffuser that, when the lighting fixture is on, absorbs the light produced by the internal LEDs and releases white light. The EVE series allows to replace the lighting fixtures which use incandescent and energy-saving lamps with a long lasting light source that ensures a better efficiency and an equal brightness comfort.





EVE...L series Lighting Fixture with LED Remote Phosphor Technology





MECHANICAL FEATURES

Body:	Low copper content aluminium alloy
Globe:	Shock and temperature resistant borosilicate glass with aluminium shade ring
Gaskets:	Acid/hydrocarbon resistant NBR.
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 "EV series dimensional drawings"
Bolts and screws:	Stainless steel
Coating:	Epoxy coating Ral 7035 (Light grey)
Corrosion Resistance :	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by stan- dards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)

Diffuser: the Remote Phosphor Technology provides new levels of efficiency and optical performance for high power LEDs. This special yellow phosphors membrane filters and corrects blue LEDs light in quality white light, thus obtaining three advantages:

- higher efficiency compared with a normal LED lamp
- anti-glare effect
- greater comfort bright.

Thanks to the Remote Phosphor Technology, the light emission is perfectly uniform, does not present shadow effects and maintains very stable its color from device to device and during time. Phosphorus properties ensure a quality of light perfectly natural and comparable to the light of the day thanks to its ability to bring colors faithfully.



ELECTRICAL FEATURES

LED:

	EVE-5060L1
Rated voltage:	230 Vac/dc, 110/230 Vac/dc only for EVE-5050L
Rated frequency:	50/60 Hz
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm ²

Section view EVE-5050L

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

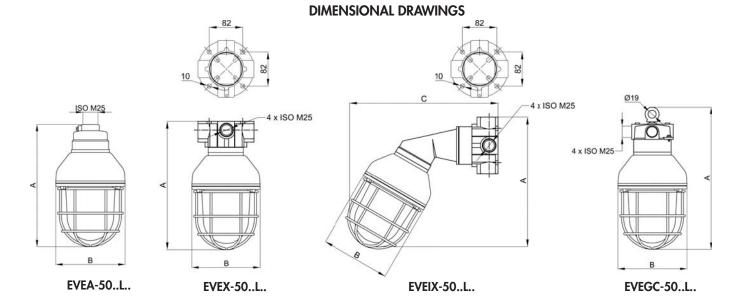
Cable gland: REVD2IB for armoured cable or REV2IB for non-armoured cable. Special request © II 2GD Ex d IIC T6 Gb Ex tb IIIC T85°C IP66 Code example: EV-5050L Rated voltage: 24 Vac/dc (code EV-5050L**/24**)



n. 3 LEDs for EVE-5050L, n. 7 LEDs for EVE-5060L and

EVE...L series Lighting Fixture with LED selection chart

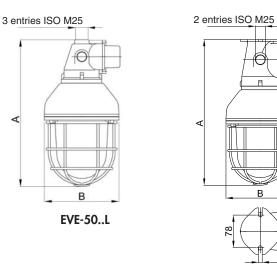
Code	Din A	nension B	mm C	Lamp type	Watt	Class Ta =+40°C	Max surface temperature °C	Weight Kg	, interest of the second secon
EVEA-5050L	261	150	-	LED	8	T6	51	2,6	160x150x330
EVEA-5060L	323	170	-	LED	13	T6	54	3,2	190x170x390
EVEA-5060L1	323	170	-	LED	19	T6	57	3,2	190x170x390
EVEX-5050L	260	150	-	LED	8	T6	51	3,0	160x150x330
EVEX-5060L	322	170	-	LED	13	T6	54	3,9	190x170x390
EVEX-5060L1	322	170	-	LED	19	T6	57	3,9	190x170x390
EVEIX-5050L	285	150	310	LED	8	T6	51	3,5	190x170x390
EVEIX-5060L	339	170	344	LED	13	T6	54	4,1	260x210x490
EVEIX-5060L1	339	170	344	LED	19	T6	57	4,1	260x210x490
EVEGC-5050L	296	150	-	LED	8	T6	51	2,8	160x150x330
EVEGC-5060L	358	170	-	LED	13	T6	54	3,6	190x170x390
EVEGC-5060L1	358	170	-	LED	19	T6	57	3,3	190x170x390



Lighting fixtures for loop-in/loop-out execution

Code	Dimens A	ion mm B	Watt	Weight Kg	
EVE-5050L	300	150	8	2,7	160x150x330
EVE-5060L	358	170	13	4,0	190x170x390
EVE-5060L1	358	170	19	4,1	190x170x390
EVES-5050L	325	150	8	2,7	160x150x330
EVES-5060L	384	170	13	4,0	190x170x390
EVES-5060L1	358	170	19	4,1	190x170x390

DIMENSIONAL DRAWINGS



EVES-50..L

9



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

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	LED plate with electro- nic circuit complete	EVE-5050L	n. 3 power LEDs. Dome for Remote Pho- sphor Technology. Alu- minium dissipator and frame	G-0571	
	with Remote Phospho- res, heat dissipator and frame.	EVE-5060L EVE-5060L1	n. 7 power LEDs. Dome for Remote Pho- sphor Technology. Alu- minium dissipator and frame	G-0572	
		EVE-5050L	90 - 264 Vac 50/60 Hz	RT-6LED	BICAMBIO
	Power supply electronic	EVE-5060L	220 - 240 Vac 50/60 Hz	RV-16LED	7
SA		EVE-5060L1	220 - 240 Vac 50/60 Hz	RV-17LED	RICAMBIO
		EVE-5050L	Material:	G50-0417	
	Protective guard	EVE-5060L electro-polished stainless steel	G60-0417	RICAMBIO	
\bigcirc	OR gasket	Globo 50	Material:	OR-4512SH70	RICAMBIO
		Globo 60	NBR	K15-131	
	Ex e pendant mounting EVE		n. 3 ISO M25 entries	G-0444	RCANDO
	Ex e ceiling mounting EVES		n. 2 ISO M25 entries	G-0439	
	Globe with shade ring	EVE-5050L	Borosilicate glass globe Threaded aluminium	G50-0440CM	
		EVE-5060L	shade ring	G60-0440CM	REAMBIO
Q	Pendant eyebolt		Material: galvanised steel	GOF-8	REAMBIO

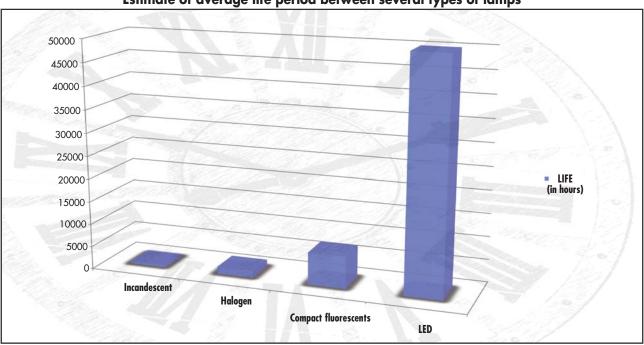


EVE...L series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Pendant mounting EVEA		n. 1 ISO M25 entry	G-0213I	
	Pendant mounting with eyebolt EVEGC		n. 4 ISO M25 entries	G-0216I	
	Ceiling mounting EVEX		n. 4 ISO M25 entries	G-0214I	READE
	Wall mounting with bracket EVEIX		n. 4 ISO M25 entries	G-0215I	
		EVE-5050L	White painted aluminium Stainless steel	G50-427 G50-427IN	
	Reflector	EVE-5060L	White painted aluminium Stainless steel	G60-427 G60-427IN	
	Dome reflector	EVE-5050L	Contact our Sales Office for availability		
		EVE-5060L	White painted aluminium	G60-427D	ACCESSORIO
	30° inclined dome	EVE-5050L	Contact our Sales Office for availability		
	reflector	EVE-5060L			
	Cable gland		For models and codes, visit www.cortemgroup.com	REVD2IB REV2IB	
	Articulated bracket for sloping mounting (have a look at in- stallation and moun- ting methods)		Material: galvanised steel	G-0543	
3₹-	Warning signs		Materials: translucent film on plexiglass and aluminium frame	G-0513	

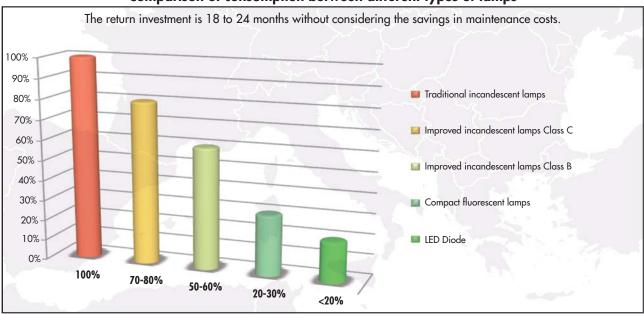


EVE...L series Lighting Fixture with LED Remote Phosphor Technology



Estimate of average life period between several types of lamps

The respect of two basic conditions, the internal temperature and the intensity of current, guarantees a life of LEDs equal to 100,000 hours.



Comparison of consumption between different types of lamps

The industry association OIDA (Optoelectronics Industry Development Association) has predicted that LED lighting will replace in almost all incandescent lighting by 2012.

The main determinants of this choice were, further the durability and the operating economy represented in the graphs, the reliability, quality and efficiency of the LED light and the environmental performance of these products.



Reliability

LED modules light up instantly and provide a constant light output even at low temperatures allowing wide range of applications. They have a high mechanical resistance even in rooms with high humidity. Another peculiarity is the LEDs resistance to shock and vibration.

Quality and efficiency of LED light

LEDs emit cold white light, which allows to achieve safe lighting for users (reduce the reaction times for the unexpected), with less energy consumption. The white light goes through the fog much better, making vehicles more visible. Furthermore, LEDs also increase the quality of the images captured by security cameras.

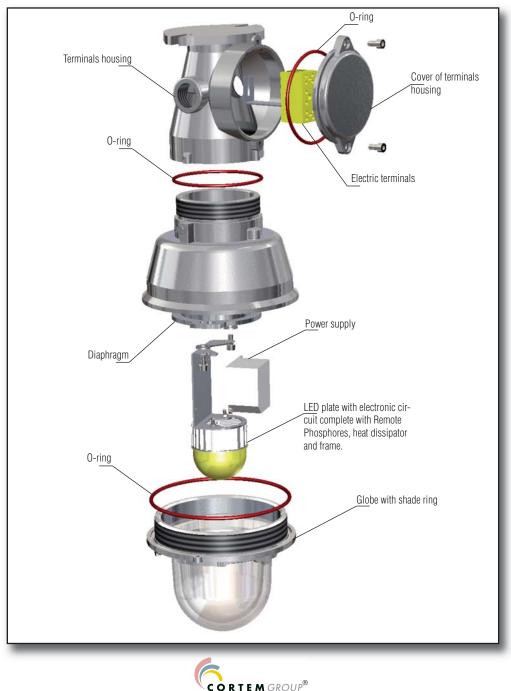
LED efficiency has been greatly improved in recent years and has reached a level even higher than 130lm / W depending on the color.

Maintenance

The maintenance costs of LED lighting equipment are one-tenth respect to sodium facilities currently in use.

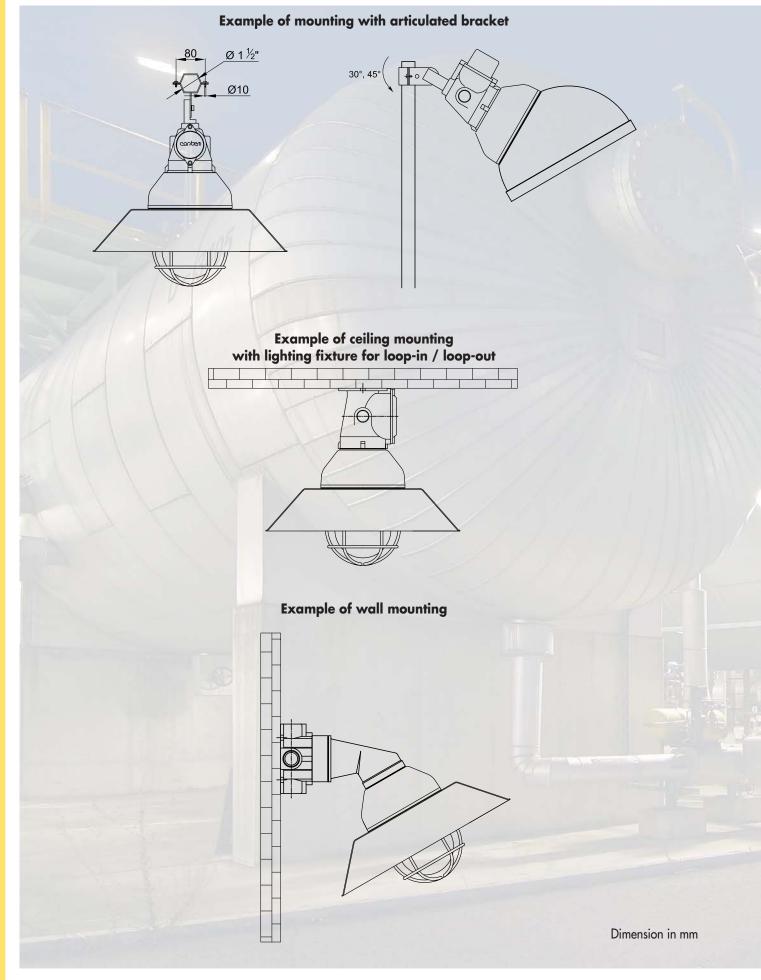
Respect for the environment

The LED light is also an ecological light because high energy saving and pollutant-free (for example, mercury).



EXPLODED DIAGRAM OF EVE-5050L LIGHTING FIXTURES

Installation and mounting methods





Photometric diagram

	EVE-5050L, PEACK	CD EQUIVALENTS	
EVE-5050L (8W) ED + remote phosphor	EVA (15W) Fluorescent	EVA (50W) Halogen	EVA (75W) Incandescent
	EVE-5060L, PEACK	CD EQUIVALENTS	
EVE-5060L (13W) ED + remote phosphor	EVA (30W) Fluorescent	EVA (110W) Halogen	EVA (150W) Incandescent
	EVE-5060L1, PEACK		
EVE-5060L1 (17W) ED + remote phosphor	EVA (40W) Fluorescent	EVA (150W) Halogen	EVA (200W) Incandescent
		Angoli Gamms	
30* 15* 0* EVE-5050L Lumine	15° 30° ous flux: 430 lm	30° 15' EVE-5060L1 Lum	^{0°} 15° 30° ninous flux: 1200 lm
Cortem Group can supply photo	metric diagram files on request for ı	use in special lighting design projects.	= plane 90270
Contact the Sales Office for furt			

