



TECHNICAL FEATURES

EV series lighting fixtures consist of an aluminium alloy body fitted with a lampholder and a temperature-resistant tempered glass globe sealed on a threaded aluminium shade ring.

ACCESSORIES (*)

- White painted aluminium diffusing reflector
- Stainless steel diffusing reflector
- Lamp
- Silicone seals

(*) Order separately specifying the article code



CARATTERISTICHE TECNICHE

Le armature illuminanti della serie EV sono costituite da un corpo in lega di alluminio provvisto di portalampade, da un globo in vetro temperato resistente agli sbalzi termici, sigillato su una ghiera di alluminio filettata.

ACCESSORI (*)

- Riflettore diffondente in alluminio verniciato bianco
- Riflettore diffondente in acciaio inox
- Lampada
- Guarnizioni silicomiche

(*) Ordinare separatamente specificando il cod. articolo



CONFORMITY TO STANDARDS

Explosion-proof lighting fixtures built to CENELEC standards EN 50014: 1997 + A1...A2, EN 50018: 2000, EN 50281-1-1: 1999 and EUROPEAN DIRECTIVE 94/9/EC: 1994.

INSTALLATION AREAS

These lighting fixtures can be installed indoors or outdoors in potentially hazardous atmospheres containing explosive or combustible gases and dusts. They are installed in the following zones: zone1, zone2, zone21 and zone 22.

APPLICATIONS

Potentially explosive atmospheres

- chemical, petrochemical and pharmaceutical industries;
- onshore and offshore ship industries;
- areas with risks of explosion and fire;
- OIL and GAS industries.

CERTIFICATION AND USE

Execution **CE 0722**:  II 2GD EEx d IIC T3/T4/T6 IP 66
(Protection against combustible gases and dusts)
 II 2D IP 66
(Protection against combustible dusts)

Protection: IP 66
Max surface temperature: 200°C (T3)
135°C (T4)
85°C (T6)

Ambient temperature: -25°C +50°C

CE test certification of type: CESI 01 ATEX 028

GOST R (Russia) Certification: AVAILABLE

GOST K (Kazakhstan) Certification: AVAILABLE



HEALTH AND SAFETY

All electrical equipment must always be installed and maintained in accordance with your country's legislative regulations concerning health and safety at work, and always in compliance with Cortem standards.

The user is responsible for choosing, installing, operating and maintaining electrical equipment in compliance with the relative laws and regulations in force. Each fixture is supplied with a manual with instructions for use, safety and maintenance.

CONFORMITA' ALLE NORMATIVE STANDARD

Armature illuminanti a prova di esplosione costruite in accordo alle normative CENELEC EN 50014: 1997 + A1...A2, EN 50019: 2000, EN 50281-1-1: 1999 ed alla DIRETTIVA EUROPEA 94/9/EC: 1994.

LUOGHI DI INSTALLAZIONE

Le armature illuminanti possono essere installate in luoghi pericolosi all'interno o all'esterno dove esiste pericolo di esplosioni o combustioni di gas e di polveri combustibili. Vengono installate nelle seguenti zone: zona 1, zona 2, zona 21, zona 22.

APPLICAZIONI

Atmosfera esplosiva

- industrie chimiche, petrolchimiche e farmaceutiche;
- onshore ed offshore, navale;
- luoghi con pericolo di esplosione ed incendio;
- industrie OIL and GAS.

CERTIFICAZIONI ED ESECUZIONE

Esecuzione **CE 0722**:  II 2GD EEx d IIC T3/T4/T6 IP 66
(Protezione contro gas e polveri combustibili)
 II 2D IP 66
(Protezione contro polveri combustibili)

Grado di protezione: IP 66
Temperatura massima superficiale: 200°C (T3)
135°C (T4)
85°C (T6)

Temperatura ambiente: -25°C +50°C

Certificato di esame CE del tipo: CESI 01 ATEX 028

Certificato GOST R (Russia): DISPONIBILE

Certificato GOST K (Kazakhstan): DISPONIBILE



SALUTE E SICUREZZA

Nel mondo tutti gli equipaggiamenti elettrici devono essere installati e mantenuti secondo le disposizioni legislative in materia di sicurezza e salute sul lavoro in vigore nello Stato, sempre e comunque in accordo agli standard Cortem.

E' responsabilità dell'utilizzatore scegliere, installare, operare e mantenere gli equipaggiamenti elettrici in conformità alla relativa legislazione e alle norme in uso, inoltre un libretto per le istruzioni di sicurezza, uso e manutenzione è posto all'interno di ogni armatura.



TECHNICAL SPECIFICATIONS

Lampholder: EDISON 27 (E-27) EDISON 40 (E-40)
 Rated voltage: 230 V ac (other voltages on request)
 Rated frequency: 50 Hz (other frequency on request)
 Wiring: Direct connection to the lampholder or the terminal box L, N, Pe section 4 mm² upon request for incandescent lamps. Direct connection to the terminal box L, N, Pe section 4 mm² for discharge lamps.

DATI TECNICI



Portalampane: EDISON 27 (E-27) EDISON 40 (E-40)
 Tensione Nominale: 230 V ac (altre tensioni a richiesta)
 Frequenza Nominale: 50 Hz (altre frequenze a richiesta)
 Connessione: Direttamente al portalampane o alla morsettiera L, N, Pe sez. 4 mm² su richiesta per lampade ad incandescenza. Direttamente alla morsettiera L, N, Pe sez. 4 mm² per lampade a scarica.

SELECTION TABLE - TABELLA DI SELEZIONE

	LAMP POWER	LAMPHOLDER	TEMPERATURE CLASS	MAX SURFACE TEMPERATURE °C	LIGHTING FIXTURE TYPE
	POTENZA LAMPADA	PORTALAMPADA	CLASSE DI TEMPERATURA	MAX TEMPERATURA SUPERFICIALE °C	TIPO ARMATURA ILLUMINANTE
INC	25 - 40 - 60 - 100 W	E27	T4	131	EV...4050
	200 W	E27	T3	153	EV...4060
	200 W	E27	T3	143	EV...4070
	300 W	E40	T3	169	EV...4080
	500 W	E40	T3	170	EV...40100
EL	20 - 23 W	E27	T6	85	EV...4060
Mix	160 W	E27	T3	157	EV...4070
	250 W	E40	T3	162	EV...4080

EV... series fixtures can be installed with discharge lamps using a separate enclosure for electrical parts (see page 6).

Le armature della serie EV... possono essere installate con lampade a scarica utilizzando una custodia separata per le parti elettriche (vedi pag. 6).



NOTES

INC Incandescent lamp
 EL Fluorescent lamp
 Mix Mixed light lamp

NOTE

INC Lampada ad incandescenza
 EL Lampada fluorescente
 Mix Lampada a luce miscelata

ORDER CODE EXAMPLES
ESEMPI CODICE D'ORDINE

EVA - 4 0 7 0

Lighting fixture type
 Tipo armatura illuminante

Lamp size - Grandezza lampada

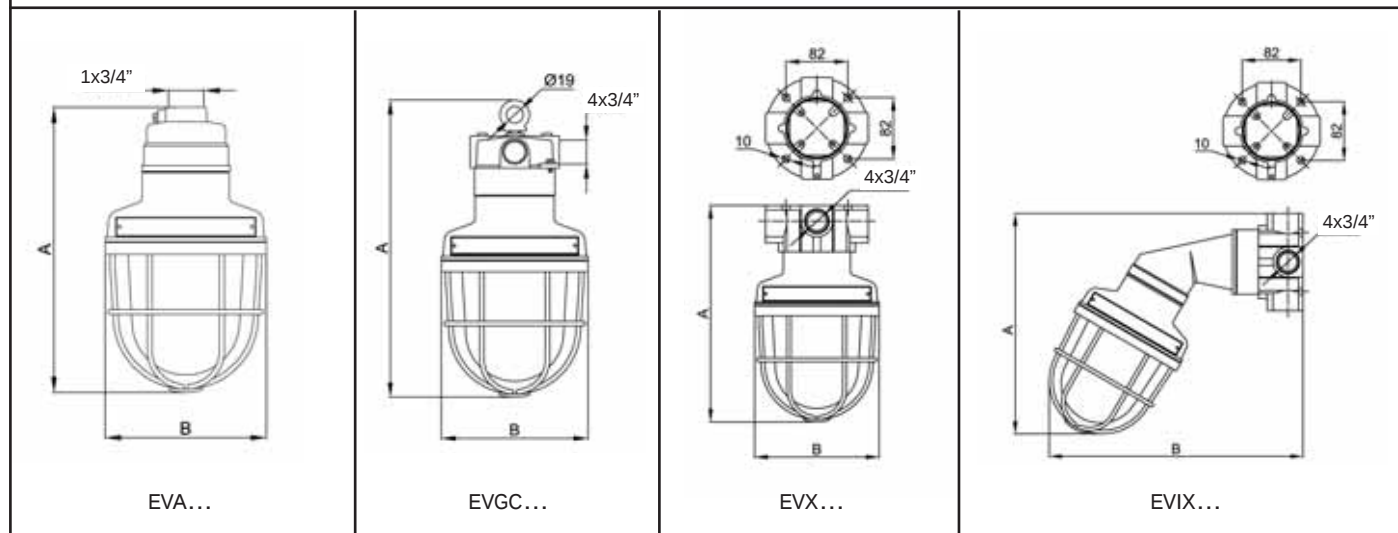
EVA - 4 0 6 0 - E L 1

Lighting fixture type
 Tipo armatura illuminante

Lamp size - Grandezza lampada

FLUORESCENT FLUORESCENTE	
EL1	20 W
EL2	23 W

CONSTRUCTION SPECIFICATIONS - CARATTERISTICHE COSTRUTTIVE



MODEL - MODELLO	DIMENSIONS - DIMENSIONI (mm)		WEIGHT - PESO (Kg)
	A	B	
EVA-4050	220	145	1,80
EVA-4060	275	165	3,25
EVA-4070	305	195	3,75
EVA-4080	420	230	6,40
EVA-40100	475	265	8,70
EVGC-4050	280	145	1,95
EVGC-4060	335	165	3,35
EVGC-4070	365	195	3,85
EVGC-4080	460	230	6,40
EVGC-40100	530	265	9,80
EVX-4050	240	145	2,15
EVX-4060	295	165	3,50
EVX-4070	325	195	4,00
EVX-4080	420	230	6,50
EVX-40100	495	265	9,00
EVIX-4050	290	335	3,10
EVIX-4060	345	370	4,35
EVIX-4070	385	400	4,45
EVIX-4080	470	460	7,45
EVIX-40100	535	510	8,80



STRUCTURE

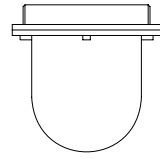
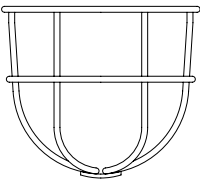
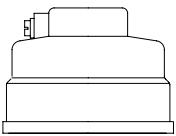
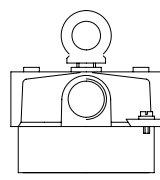
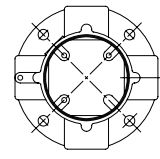
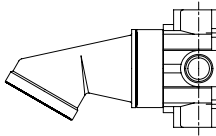
- Stainless steel guard
- Aluminium alloy body with low copper contents
- Shockproof and temperature-resistant borosilicate glass globe
- Internal and external stainless steel ground screw
- Wiring consisting of silicone rubber cables with glass braid insulation up to 200°C
- Neoprene seals resistant to acids and hydrocarbons
- RAL 7035 grey epoxy powder coating

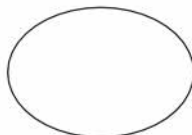
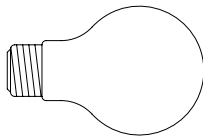
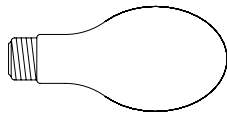
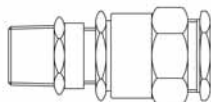
COSTRUZIONE

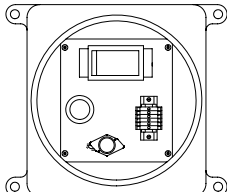


- Gabbia di protezione in acciaio inox
- Corpo in lega di alluminio a basso tenore di rame
- Globo in vetro borosilicato resistente agli urti ed alle alte temperature
- Vite di terra interna ed esterna in acciaio inox
- Cablaggio eseguito con cavi in gomma siliconica con protezione in treccia di vetro resistenti fino a 200°C
- Guarnizioni in neoprene resistenti agli acidi ed agli idrocarburi
- Verniciatura eseguita con polvere epossidica di colore grigio RAL 7035

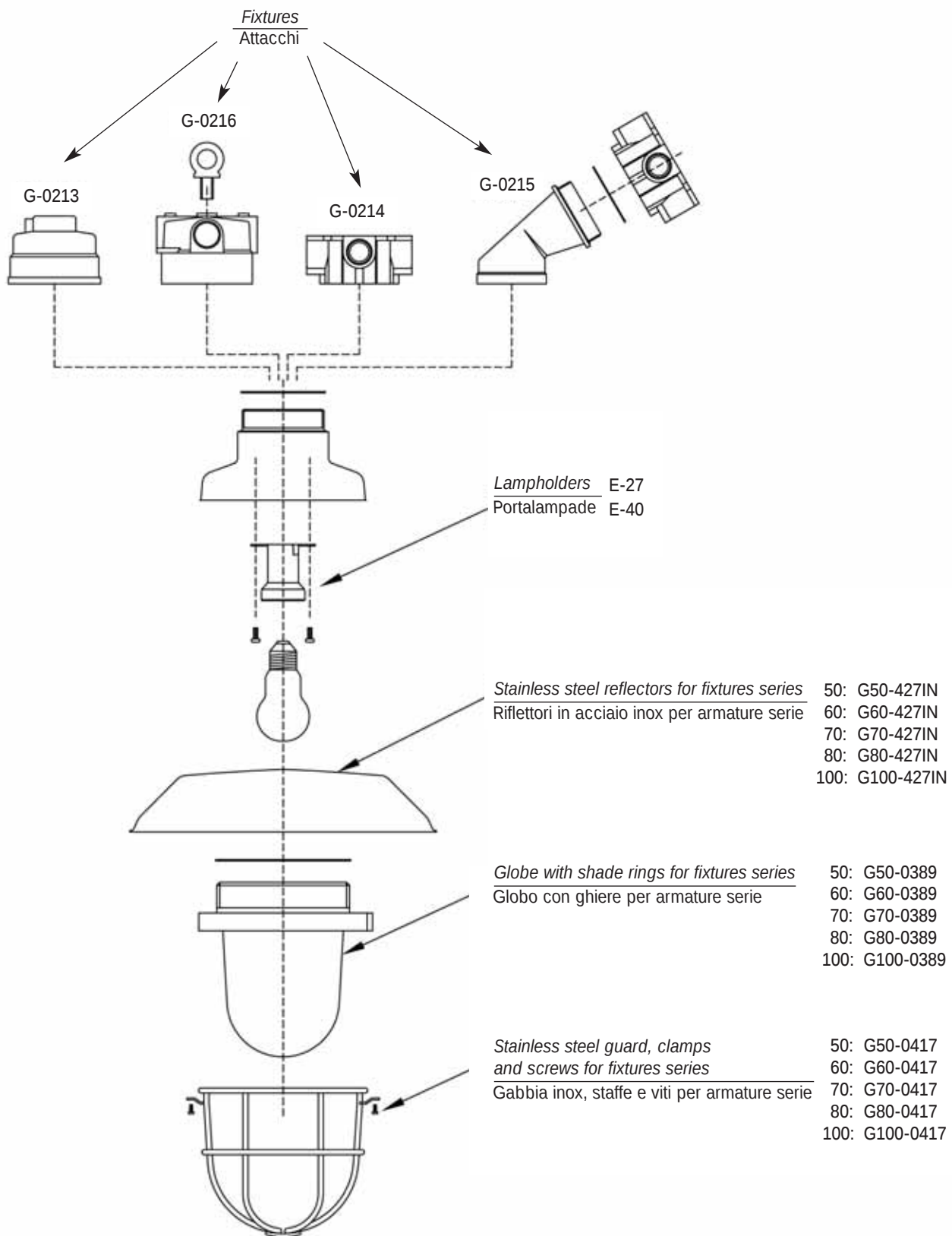
ACCESSORIES AND SPARE PARTS - ACCESSORI E PARTI DI RICAMBIO

ILLUSTRATION ILLUSTRAZIONE	 DESCRIPTION	 DESCRIZIONE	SIZE GRANDEZZA	SPECIFICATIONS CARATTERISTICHE	CODE CODICE
	Borosilicate glass globe with threaded aluminium shade ring	Globo in vetro borosilicato con ghiera di alluminio filettata	4050		G50-0389
			4060		G60-0389
			4070		G70-0389
			4080		G80-0389
			40100		G100-0389
	Stainless steel guard	Gabbia di protezione in acciaio inox	4050		450-0417
			4060		460-0417
			4070		470-0417
			4080		480-0417
			40100		4100-0417
	White painted aluminium reflector Stainless steel reflector (upon request)	Riflettore in alluminio verniciato bianco Riflettore in acciaio inox (a richiesta)	4050	Aluminium - Alluminio Stainless stell - Inox	G50-427 G50-427IN
			4060	Aluminium - Alluminio Stainless stell - Inox	G60-427 G60-427IN
			4070	Aluminium - Alluminio Stainless stell - Inox	G70-427 G70-427IN
			4080	Aluminium - Alluminio Stainless stell - Inox	G80-427 G80-427IN
			40100	Aluminium - Alluminio Stainless stell - Inox	G100-427 G100-427IN
	Lampholder	Portalampada	E27	250V 4A	PORT E-27
			E40	750V 16A	PORT E-40
	Wiring terminal strip	Morsettiera di collegamento		For special executions Per particolari esecuzioni 275V 3x4 mm ²	-
	Pendant fixture EVA	Attacco a sospensione EVA	4050	One 3/4" entry N° 1 imbocco da 3/4"	G-0213
			4060		
			4070		
			4080		
			40100		
	Pendant fixture with eyebolt EVGC	Attacco a sospensione con golfare EVGC	4050	Four 3/4" entries N° 4 imbocchi da 3/4"	G-0216
			4060		
			4070		
			4080		
			40100		
	Ceiling fixture EVX	Attacco a soffitto EVX	4050	Four 3/4" entries N° 4 imbocchi da 3/4"	G-0214
			4060		
			4070		
			4080		
			40100		
	Wall fixture with 30° bracket EVIX	Attacco a parete con braccio 30° EVIX	4050	Four 3/4" entries N° 4 imbocchi da 3/4"	G-0215
			4060		
			4070		
			4080		
			40100		

ACCESSORIES AND SPARE PARTS - ACCESSORI E PARTI DI RICAMBIO					
ILLUSTRATION ILLUSTRAZIONE	 DESCRIPTION	 DESCRIZIONE	SIZE GRANDEZZA	SPECIFICATIONS CARATTERISTICHE	CODE CODICE
	Pendant eyebolt	Golfare di sospensione		Galvanized steel Acciaio zincato	GOF-8
	O-rings	Guarnizioni OR	Globo 50	Operating temperature -30°C +100°C	K9-131
			Globo 60		K13-131
			Globo 70	Temperatura d'impiego -30°C +100°C	K15-131
			Globo 80		K20-131
			Globo 100		K25-131
	Incandescent lamp (upon request)	Lampada ad incandescenza (a richiesta)	E27	25 W	LAMP-NC25W
			E27	40 W	LAMP-NC40W
			E27	60 W	LAMP-NC60W
			E27	100 W	LAMP-NC100W
			E27	200 W	LAMP-NC200W
			E40	300 W	LAMP-NC300W
			E40	500W	LAMP-NC500W
	High pressure sodium vapour lamp (upon request)	Lampada a vapori di sodio alta pressione (a richiesta)	E27	50 W	LAMP-NAV50W
			E27	70 W	LAMP-NAV70W/IE
			E27	100 W	LAMP-NAV100W
			E40	150 W	LAMP-NAV150W
	Mixed light lamp (upon request)	Lampada a luce miscelata (a richiesta)	E27	160 W	LAMP-160WHWL
			E40	250 W	LAMP-250WHWL
	Cable gland	Pressacavo	Note: for models, codes and specifications, see cable glands/boxes catalogue. Nota: per modelli, codici e caratteristiche, vedi catalogo pressacavi/cassette		
For vapour lamp types, see series EW..., EWA... Per il tipo di lampadine a vapori consultare la serie EW..., EWA...					

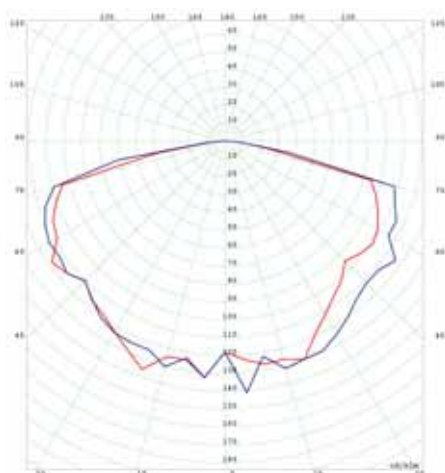
BOX WITH ELECTRICAL PARTS - CASSETTA CON PARTE ELETTRICA				
	Enclosure containing electrical equipment	Custodia porta apparecchi elettrici	50 W Hg	GUB-02/F0
			80 W Hg	GUB-02/F1
			250 W Hg	GUB-02/F5
			50 W Na	GUB-02/N0
			70 W Na	GUB-02/N1
			250 W Na	GUB-02/N5
EV... series fixtures can be installed with discharge lamps using a separate enclosure for electrical parts. Le armature della serie EV... possono essere installate con lampade a scarica utilizzando una custodia separata per le parti elettriche.				

EXPLODED VIEW OF LIGHTING FIXTURE - SPARE PARTS DESCRIPTION
ESPLOSO ARMATURA ILLUMINANTE - DESCRIZIONE RICAMBI

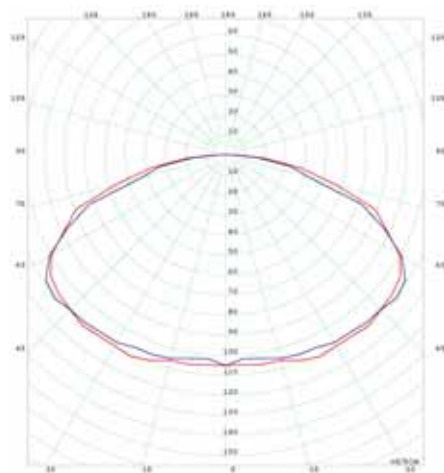


PHOTOMETRIC DIAGRAM - CURVE FOTOMETRICHE

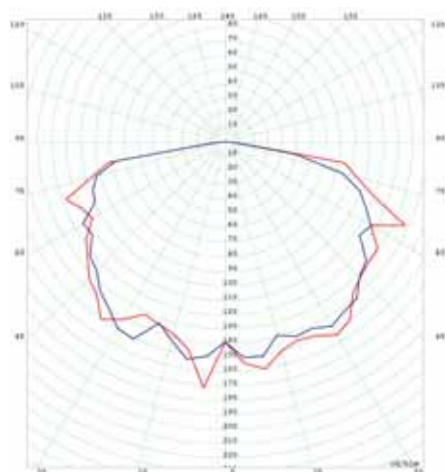
CODE: EV-40100 500W INC
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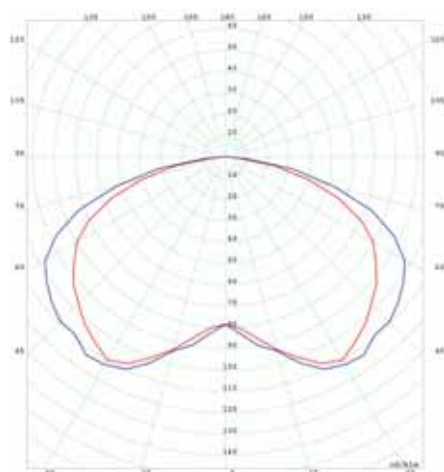
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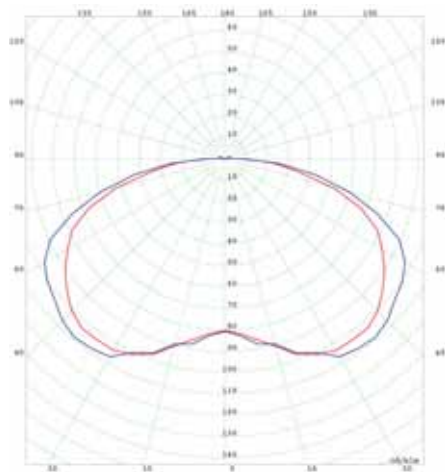
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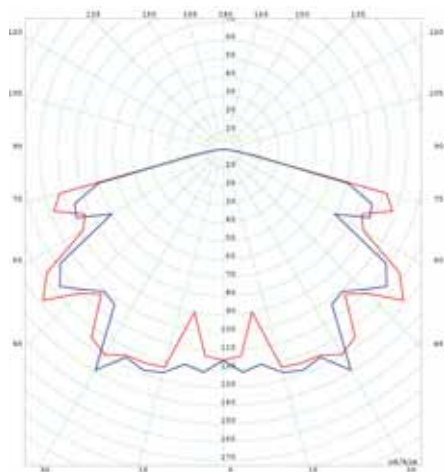
CODE: EV-4060 20W FLUOR
CODICE:



CODE: EV-4060 23W FLUOR
CODICE:

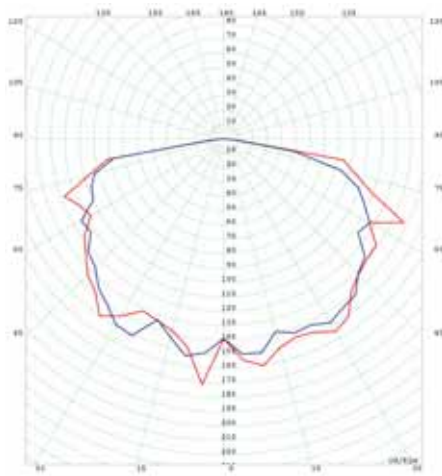


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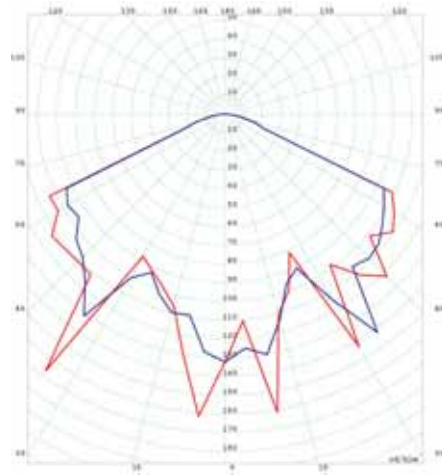


PHOTOMETRIC DIAGRAM - CURVE FOTOMETRICHE

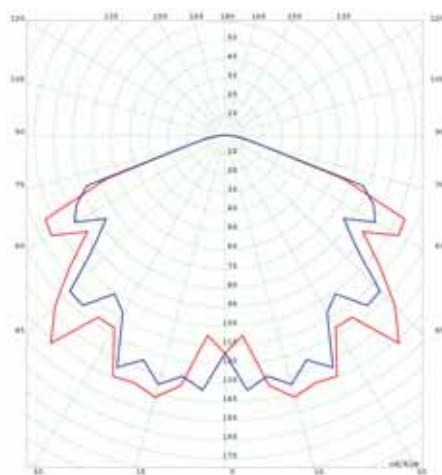
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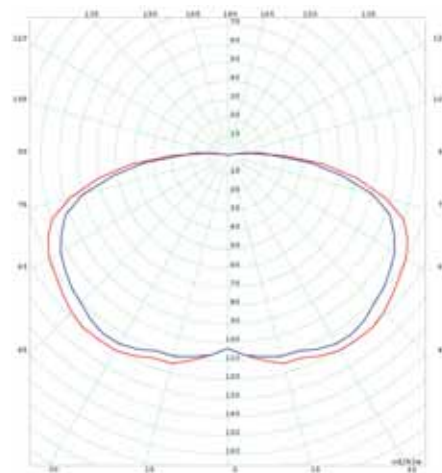
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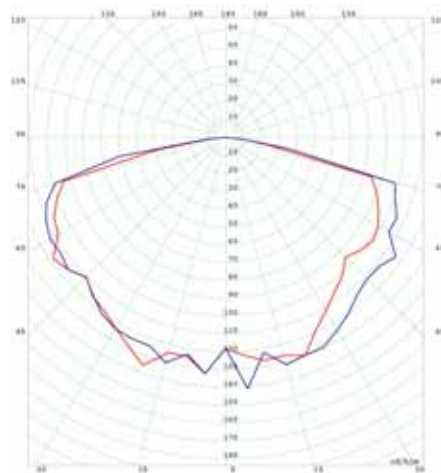
CODE: EV-4070 200W INC
CODICE:



CODE: EV-4080 250W LM
CODICE:



CODE: EV-4080 300W INC
CODICE:



— = plane - piano 90270
— = plane - piano C 0180