


 TECHNICAL FEATURES	 CARATTERISTICHE TECNICHE
<p>EVF series lighting fixtures</p> <ul style="list-style-type: none"> • Normal operation: see page 74. • Emergency operation: see page 75. 	<p>Caratteristiche per armature della serie EVF</p> <ul style="list-style-type: none"> • Funzionamento normale: vedi pagina 74. • Funzionamento in emergenza: vedi pagina 75.
ACCESSORIES 	ACCESSORI 
<p>EVF series lighting fixture accessories</p> <ul style="list-style-type: none"> • Normal operation: see page 74. • Emergency operation: see page 75. 	<p>Accessori per armature della serie EVF</p> <ul style="list-style-type: none"> • Funzionamento normale: vedi pagina 74. • Funzionamento in emergenza: vedi pagina 75.
<p> Order separately specifying the article code</p>	<p> Ordinare separatamente specificando il cod. articolo</p>



 **CONFORMITY TO STANDARDS**

Explosion-proof lighting fixtures built to CENELEC standards EN 60079-1: 2004, EN 60079-0: 2006, EN 61241-1: 2004, EN 61241-0: 2006 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: **zone 1, zone 2, zone 21 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  0722:  II 2GD Ex de IIC T... Ex tD A21 IP66
(Protection against combustible gases and dusts)

Max surface temperature: 100°C (T5)

85°C (T6)

Ambient temperature: -20°C +55°C

CE test certification of type: CESI 03 ATEX 098 


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 CortemGroup 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 60079-1: 2004, EN 60079-0: 2006, EN 61241-1: 2004, EN 61241-0: 2006 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  0722:  II 2GD Ex de IIC T... Ex tD A21 IP66
(Protezione contro gas e polveri combustibili)

Temperatura massima superficiale: 100°C (T5)

85°C (T6)

Temperatura ambiente: -20°C +55°C

Certificato di esame CE del tipo: CESI 03 ATEX 098 

Certificato GOST R (Russia): DISPONIBILE 

Certificato GOST K (Kazakistan): 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 CortemGroup.

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

GOST K (Kazakhstan) Certification: **AVAILABLE**
 Lampholder: G13 Two-pin
 Rated voltage: 230 V ac (110/230 V ac/dc upon request, standard for models **EVF-2180, EVF-2360**.
 Rated frequency: 50/60 Hz
 Wiring: Direct connection to the terminal box L, N, Pe section 4 mm² terminal box connected via jumpers for input-output.
 Power factor: 0.98



DATI TECNICI

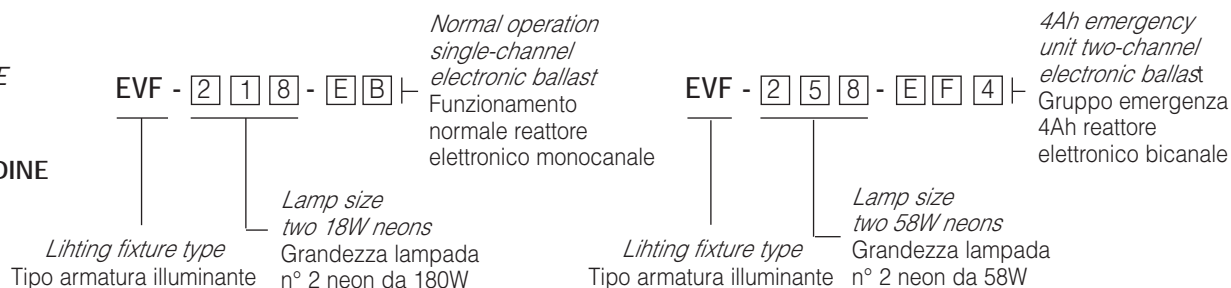
Portalampane: Bispina G13
 Tensione Nominale: 230 V ac (110/230 V ac/dc a richiesta, di serie per modelli **EVF-2180, EVF-2360**.
 Frequenza Nominale: 50/60 Hz
 Connessione: Direttamente alla morsettiera L, N, Pe sez. 4 mm² morsettiera ponticellata adatta per l'entra-esce.
 Power factor: 0,98

Ex de

SELECTION TABLE - TABELLA DI SELEZIONE

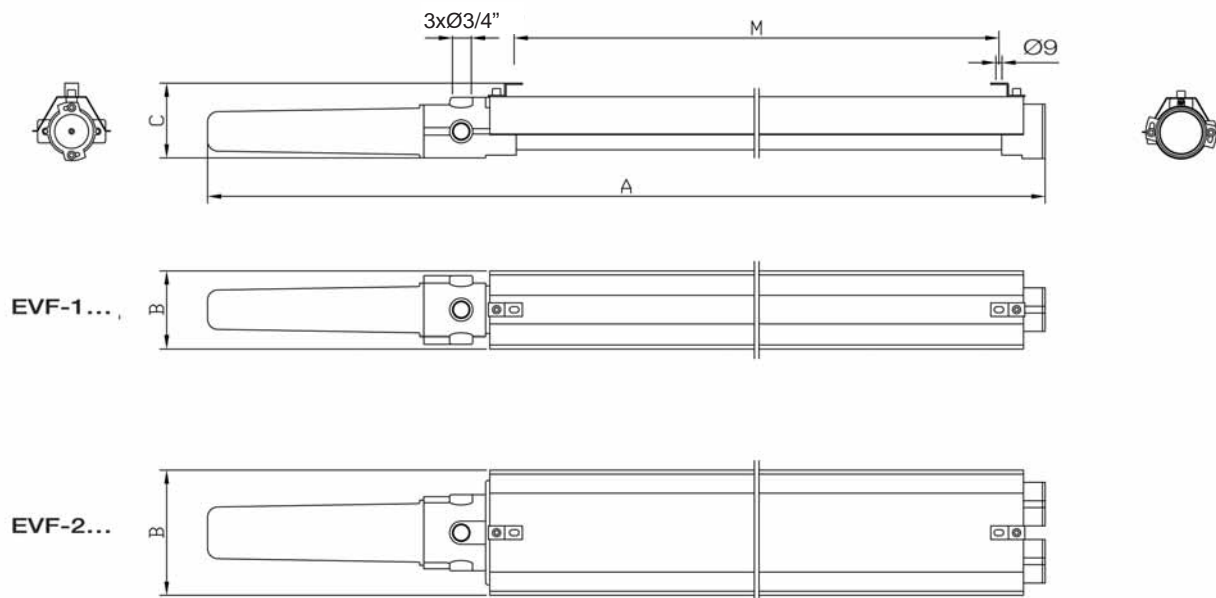
FLUORESCENT TUBE		NORMAL OPERATION		NORMAL + EMERGENCY OPERATION		EMERGENCY OPERATION ONLY	
TUBI FLUORESCENTI		FUNZIONAMENTO NORMALE		ARMATURE IN FUNZIONAMENTO NORMALE + EMERGENZA		FUNZIONAMENTO SOLO IN EMERGENZA	
W	N°	<i>Electronic (EB) ballast</i>	<i>N° 1 electronic ballast bi-channel into double lighting fixture</i>	<i>Charger-inverter C/W 4Ah battery pack</i>	<i>Charger-inverter C/W 7Ah battery pack</i>	<i>Charger-inverter C/W 4Ah battery pack</i>	<i>Charger-inverter C/W 7Ah battery pack</i>
		Reattore elettronico (EB)	N° 1 reattore elettronico bicanale in armatura illuminante doppia	Armature con gruppo emergenza 4AH	Armature con gruppo emergenza 7AH	Armature con gruppo emergenza 4AH	Armature con gruppo emergenza 7AH
18	1	EVF-118EB		EVF-118EF4	EVF-118EF7	EVF-118EE4	EVF-118EE7
18	2	EVF-218EB	EVF-2180	EVF-218EF4	EVF-218EF7		
36	1	EVF-136EB		EVF-136EF4	EVF-136EF7	EVF-136EE4	EVF-136EE7
36	2	EVF-236EB	EVF-2360	EVF-236EF4	EVF-236EF7		
58	1	EVF-158EB		EVF-158EF4	EVF-158EF7	EVF-158EE4	EVF-158EE7
58	2	EVF-258EB		EVF-258EF4	EVF-258EF7		

ORDER CODE
EXAMPLES
ESEMPI
CODICE D'ORDINE



EMERGENCY LIGHTING FIXTURE		
ARMATURE ILLUMINANTI DI EMERGENZA		
Watt	Batt. type Tipo batt.	Discharge time Tempo di scarica
18	4Ah	120'
	7Ah	210'
36	4Ah	100'
	7Ah	180'
58	4Ah	90'
	7Ah	150'

CONSTRUCTION SPECIFICATIONS - CARATTERISTICHE COSTRUTTIVE



MODEL - MODELLO	DIMENSIONS - DIMENSIONI (mm)				WEIGHT - PESO (Kg)
	A	B	C	M	
EVF-118	1060	114	110	561	2,80
EVF-136	1672	114	110	1173	4,25
EVF-158	1972	114	110	1473	5,30
EVF-218...2180	1060	184	110	561	5,80
EVF-236...2360	1672	184	110	1173	7,25
EVF-258...	1972	184	110	1473	8,30



TECHNICAL FEATURES

EVF series fixtures consist of an aluminium alloy ballast holder, a temperature-resistant tempered glass tube sealed on two aluminium bushes and two heads fitted with a lampholder.

ACCESSORIES ^(*)

- Stainless steel diffusing reflector
- Galvanized steel guard
- Stainless steel guard
- Fluorescent tube
- Silicone seals

^(*) Order separately specifying the article code

STRUCTURE

- Aluminium alloy ballast holder with low copper content
- White stamped plate diffusing reflector
- Shockproof and temperature-resistant borosilicate glass tube
- 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



CARATTERISTICHE TECNICHE

Le armature della serie EVF sono costituite da un portatore in lega di alluminio, da un tubo di vetro temperato resistente agli sbalzi termici, sigillato su due bocche di alluminio e da due testate provviste di portalampade.

ACCESSORI ^(*)

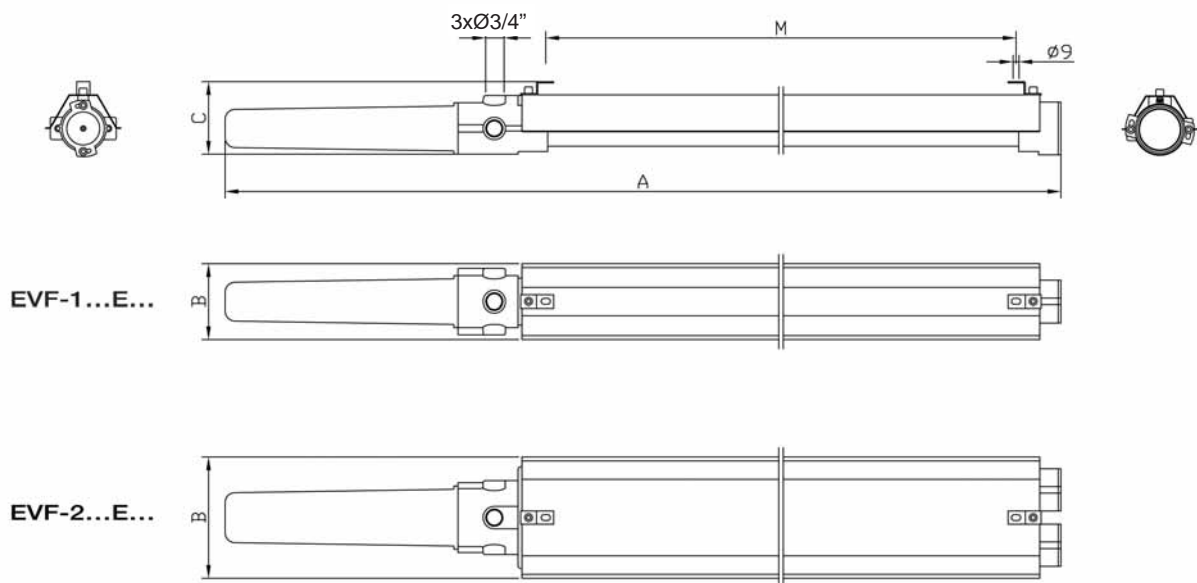
- Riflettore diffondente in acciaio inox
- Gabbia di protezione in acciaio zincato
- Gabbia di protezione in acciaio inox
- Tubo fluorescente
- Guarnizioni siliconiche

^(*) Ordinare separatamente specificando il codice articolo

COSTRUZIONE

- Portatore in lega di alluminio a basso tenore di rame
- Riflettore diffondente in lamiera stampata verniciata bianca
- Tubo di 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

CONSTRUCTION SPECIFICATIONS FOR EVF SERIES IN EMERGENCY MODE - CARATTERISTICHE COSTRUTTIVE SERIE EVF IN EMERGENZA



MODEL - MODELLO	DIMENSIONS - DIMENSIONI (mm)			
	A	B	C	M
EVF-118E..	1140	114	110	561
EVF-136E..	1740	114	110	1173
EVF-158E..	2040	114	110	1473
EVF-218E..	1140	184	110	561
EVF-236E..	1740	184	110	1173
EVF-258E..	2040	184	110	1473



TECHNICAL FEATURES

Emergency EVF series fixtures consist of an aluminium alloy ballast holder with an inverter and battery pack, a temperature-resistant tempered glass tube sealed on two aluminium bushes and two heads fitted with lampholders.

ACCESSORIES ^(*)

- Stainless steel diffusing reflector
- Galvanized steel guard
- Stainless steel guard
- Fluorescent tube
- Silicone seals

^(*) Order separately specifying the article code

STRUCTURE

- Aluminium alloy ballast holder with low copper content
- White painted stamped plate diffusing reflector
- Temperature-resistant and shockproof borosilicate glass tube
- 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

CARATTERISTICHE TECNICHE



Le armature della serie EVF in emergenza sono costituite da un portatore, completo di inverter e di batterie, in lega di alluminio, da un tubo di vetro temperato resistente agli sbalzi termici, sigillato su due bocche di alluminio e da due testate provviste di portalampe.

ACCESSORI ^(*)



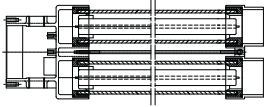
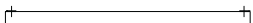


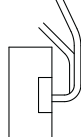
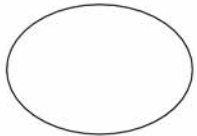
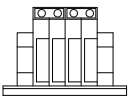
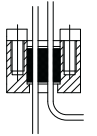
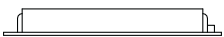
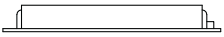
- Riflettore diffondente in acciaio inox
- Gabbia di protezione in acciaio zincato
- Gabbia di protezione in acciaio inox
- Tubo fluorescente
- Guarnizioni siliconiche



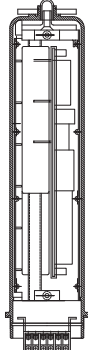


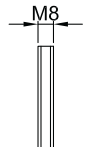
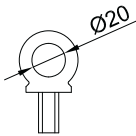
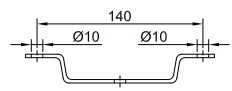
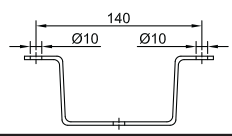
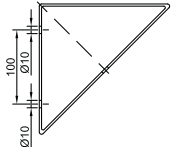
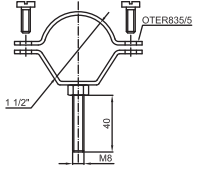
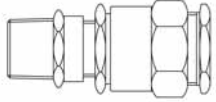
^(*) Ordinare separatamente specificando il codice articolo

COSTRUZIONE

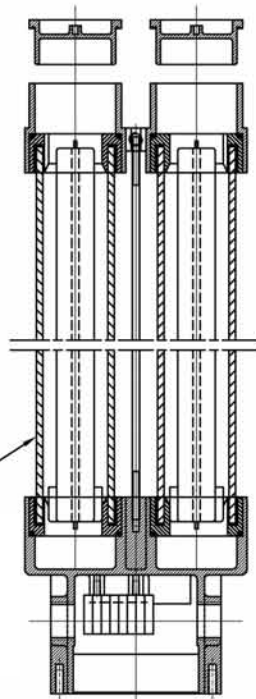
- Portatore in lega di alluminio a basso tenore di rame
- Riflettore diffondente in lamiera stampata verniciata bianca
- Tubo di vetro borosilicato resistente agli urti ed alle alte temperature
- Vite di terra interna ed esterna in acciaio inox
- Cablaggio eseguito con cavi in gomma siliconica con protezione 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
	Assemblage for glass tubes	Assieme per tubi vetro		<i>Glass tubes completely assembled with head, ties, lampholders, sockets</i> Tubi vetro completamente assemblati con testata, tiranti, portalampe, boccole	<i>See the exploded view</i> Vedi disegno esploso
	White painted plate reflector	Riflettore in lamiera verniciata bianca	1 x 18 W		G118-455
			2 x 18 W		G218-455
			1 x 36 W		G136-455
			2 x 36 W		G236-455
			1 x 58 W		G158-455
			2 x 58 W		G258-455
	Stainless steel plate reflector <i>(upon request)</i>	Riflettore in lamiera inox <i>(a richiesta)</i>	1 x 18 W		G118-455IN
			2 x 18 W		G218-455IN
			1 x 36 W		G136-455IN
			2 x 36 W		G236-455IN
			1 x 58 W		G158-455IN
			2 x 58 W		G258-455IN
	Stainless steel guard <i>(upon request)</i>	Gabbia di protezione in acciaio inox <i>(a richiesta)</i>	1 x 18 W		G118-0418S
			2 x 18 W		G218-0418S
			1 x 36 W		G136-0418S
			2 x 36 W		G236-0418S
			1 x 58 W		G158-0418S
			2 x 58 W		G258-0418S
	Lampholder	Portalampe	G13	250V 4A	G-0392
	O-rings	Guarnizione OR		<i>Operating temperature -30°C +100°C</i> Temperatura d'impiego -30°C +100°C	
	Terminals	Morsetti	ATEX certification Certificati ATEX		BT/2
					RN 4
	Internal cable gland	Passacavo interno			H-0126
	Electronic ballast	Reattore elettronico	1 x 18 W	220/240V 50/60Hz <i>(110/230V upon request)</i> <i>(110/230V a richiesta)</i>	RT-118
			2 x 18 W		RT-218
			1 x 36 W		RT-136
			2 x 36 W		RT-236
			1 x 58 W		RT-158
			2 x 58 W		RT-258
	Dual channel electronic ballast	Reattore elettronico bicanale	1 x 18 W		RT-118F
			2 x 18 W		RT-218F
			1 x 36 W		RT-136F
			2 x 36 W		RT-236F

ACCESSORIES AND SPARE PARTS - ACCESSORI E PARTI DI RICAMBIO								
ILLUSTRATION ILLUSTRAZIONE	 DESCRIPTION	 DESCRIZIONE	SIZE GRANDEZZA	SPECIFICATIONS CARATTERISTICHE	CODE CODICE			
	Battery housing (normal + emergency operation)	Barilotto per gruppo emergenza (normale + emergenza)	EVF-118EF4	110/230V	G118-0447/4			
			EVF-118EF7		G118-0447/7			
			EVF-218EF4		G218-0447/4			
			EVF-218EF7		G218-0447/7			
			EVF-136EF4		G136-0447/4			
			EVF-136EF7		G136-0447/7			
			EVF-236EF4		G236-0447/4			
			EVF-236EF7		G236-0447/7			
			EVF-158EF4		230V	G125-0447/4		
			EVF-158EF7			G158-0447/7		
			EVF-258EF4			G258-0447/4		
			EVF-258EF7			G258-0447/7		
			Battery housing (emergency operation only)		Barilotto per gruppo emergenza (solo emergenza)	EVF-1..EE4		G1-0456/4
						EVF-1..EE7		G1-0456/7
	Fluorescent tubes (upon request)	Tubi fluorescenti (a richiesta)	G13	18 W	LAMP-L18W21			
			G13	36 W	LAMP-L36W21			
			G13	58 W	LAMP-L58W21			
	Different signs stickers	Adesivi con marchiature varie		Material: translucent film Materiale: film traslucido				
	Tige	Tige		Material: galvanized steel Materiale: acciaio zincato	T			
	Eyebolt	Golfare		Material: galvanized steel Materiale: acciaio zincato	GOF-8			
	Bracket type U	Staffa tipo U		Material: galvanized steel Materiale: acciaio zincato	G-244			
	Bracket type V	Staffa tipo V		Material: galvanized steel Materiale: acciaio zincato	G-263			
	Bracket type D	Staffa tipo D		Material: galvanized steel Materiale: acciaio zincato	G-258			
	Bracket type P	Staffa tipo P		Material: galvanized steel Materiale: acciaio zincato	G-0480			
	Cable gland	Pressacavo	Note: for models, codes and specifications, see cable glands catalogue. Nota: per modelli, codici e caratteristiche, vedi catalogo pressacavi.					

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



ASSEMBLY FOR GLASS TUBES
ASSIEME PER TUBI DI VETRO

<i>For normal lamps</i>	1x18W:	G118-0411CM
<i>Per lampade normali</i>	1x36W:	G136-0411CM
	1x58W:	G158-0411CM
	2x18W:	G218-0411CM
	2x36W:	G236-0411CM
	2x58W:	G258-0411CM

Stainless tige type T:

T

Tige tipo T inox:

T



Eyebold type O:

GOF-8

Golfare tipo O:

GOF-8



Bracket type U:

G-244

Staffa tipo U:

G-244

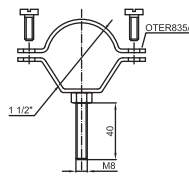


Bracket type P:

G-0480

Staffa tipo P:

G-0480

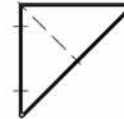


Bracket type O:

G-258

Staffa tipo O:

G-258



Bracket type V:

G-263

Staffa tipo V:

G-263

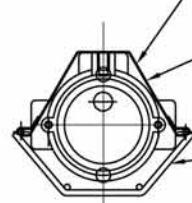


SINGLE EVF
EVF SINGOLA

Painted steel reflectors

Riflettori in acciaio verniciato

1x18W:	G118-455
1x36W:	G136-455
1x58W:	G158-455



Stainless steel reflectors
 Riflettori in acciaio inox

Stainless steel guards
 Gabbie in acciaio inox

1x18W:	G118-455IN
1x36W:	G136-455IN
1x58W:	G158-455IN

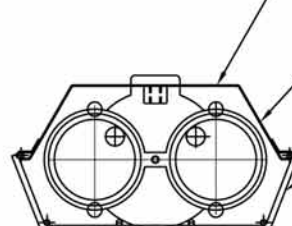
1x18W:	G118-0418S
1x36W:	G136-0418S
1x58W:	G158-0418S

DOUBLE EVF
EVF DOPPIA

Painted steel reflectors

Riflettori in acciaio verniciato

2x18W:	G218-455
2x36W:	G236-455
2x58W:	G258-455



Stainless steel reflectors
 Riflettori in acciaio inox

Stainless steel guards
 Gabbie in acciaio inox

2x18W:	G218-455IN
2x36W:	G236-455IN
2x58W:	G258-455IN

2x18W:	G218-0418S
2x36W:	G236-0418S
2x58W:	G258-0418S

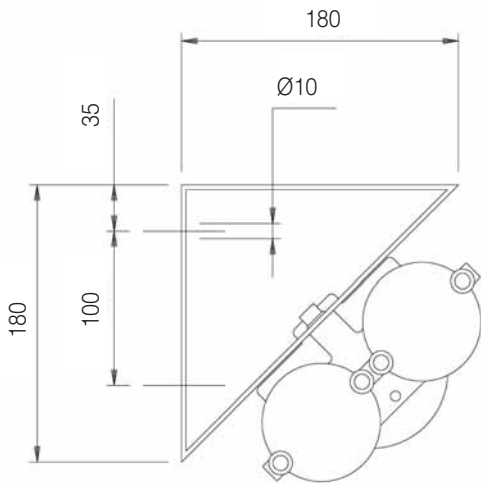
Electronic ballast Reattore elettronico	1 x 18 W	220/240V 50/60Hz	RT-118	
	2 x 18 W		RT-218	
	1 x 36 W	(110/230V upon request)	RT-136	
	2 x 36 W		RT-236	
	Dual channel electronic ballast Reattore elettronico bic canale	1 x 18 W		RT-118F
		2 x 18 W		RT-218F
1 x 36 W			RT-136F	
	2 x 36 W		RT-236F	
Battery housing (normal + emergency operation) Bariotto per gruppo emergenza (normale + emergenza)	EVF-118EF4	110/230V	G118-0447/4	
	EVF-118EF7		G118-0447/7	
	EVF-218EF4		G218-0447/4	
	EVF-218EF7		G218-0447/7	
	EVF-136EF4		G136-0447/4	
	EVF-136EF7		G136-0447/7	
	EVF-236EF4		G236-0447/4	
	EVF-236EF7		G236-0447/7	
	EVF-158EF4		230V	G125-0447/4
	EVF-158EF7			G158-0447/7
	EVF-258EF4			G258-0447/4
	EVF-258EF7			G258-0447/7
	EVF-1..EE4			G1-0456/4
	EVF-1..EE7			G1-0456/7

Battery housing (emergency operation only)

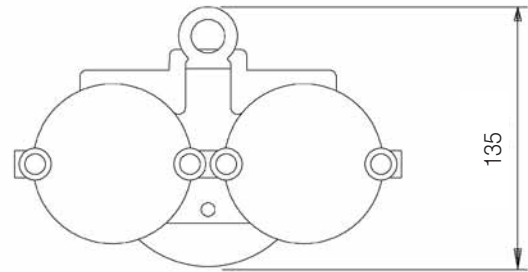
Bariotto per gruppo emergenza (solo emergenza)

INSTALLATIONS METHODS - METODI DI INSTALLAZIONE

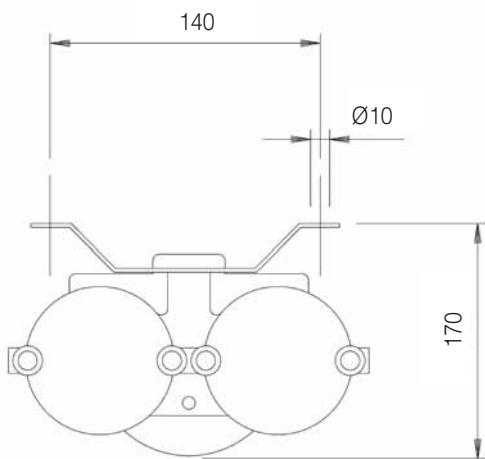
Ex de



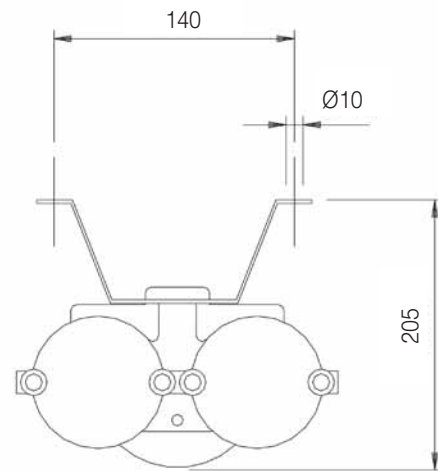
45° angular tramps - *TYPE "D"*
Staffe angolari a 45° - TIPO "D"



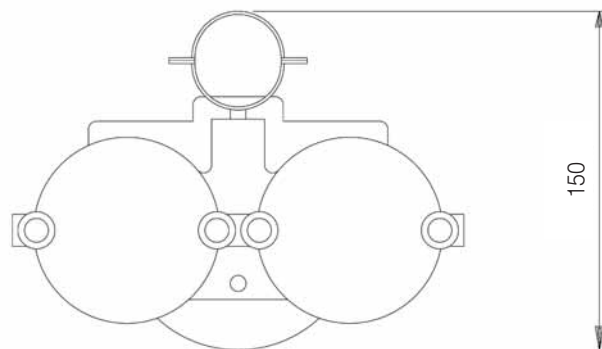
Pendant fixtures with eyebolt - *TYPE "O"*
Attacchi a sospensione con golfare - TIPO "O"



Ceiling clamps, low model - *TYPE "U"*
Staffe a soffitto modello basso - TIPO "U"

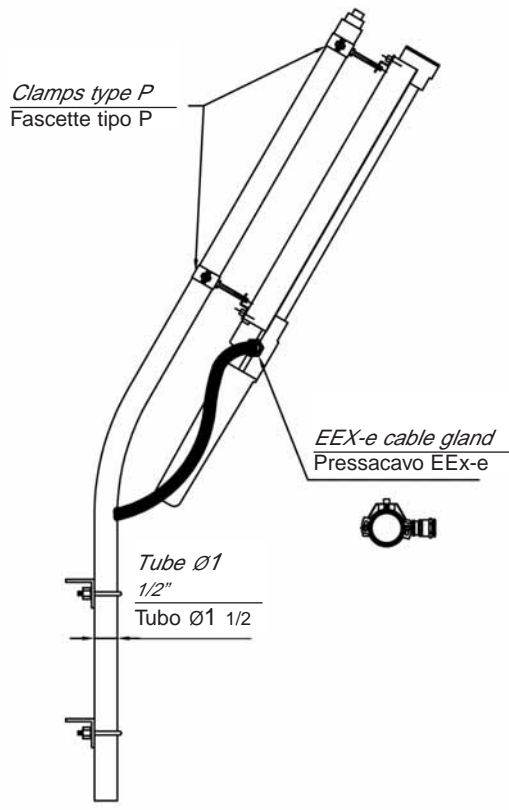


Ceiling clamps, high model - *TYPE "V"*
Staffe a soffitto modello alto - TIPO "V"

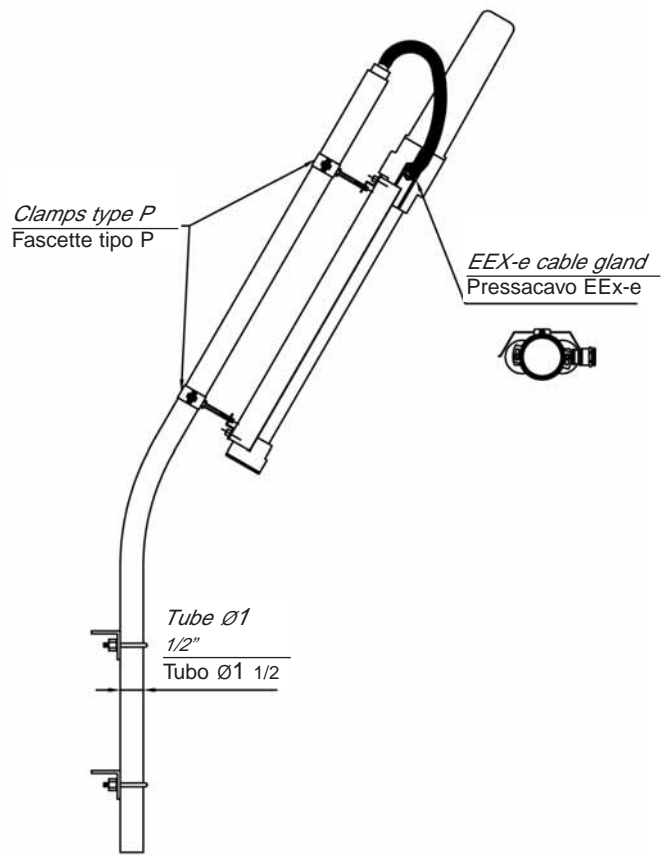


1/2" metallic clamps - *TYPE "P"*
Attacchi con fascette metalliche da 1.1/2" - TIPO "P"

STANDARD ROD ASSEMBLY FOR SINGLE EVF
MONTAGGIO STANDARD A PALINA PER EVF SINGOLA

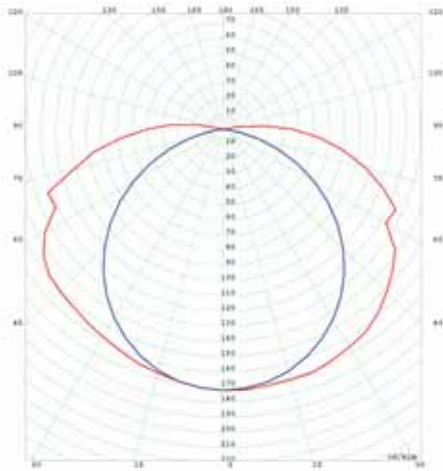


STANDARD ROD ASSEMBLY FOR DOUBLE EVF
MONTAGGIO STANDARD A PALINA PER EVF DOPPIA

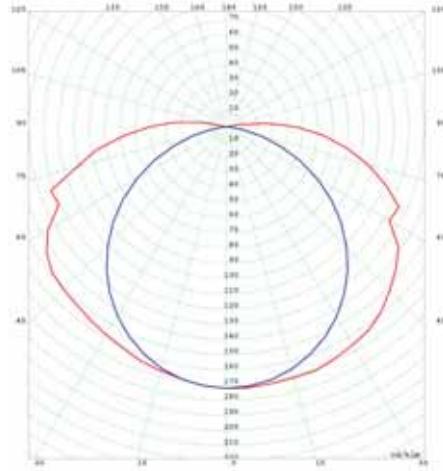


PHOTOMETRIC DIAGRAM - CURVE FOTOMETRICHE

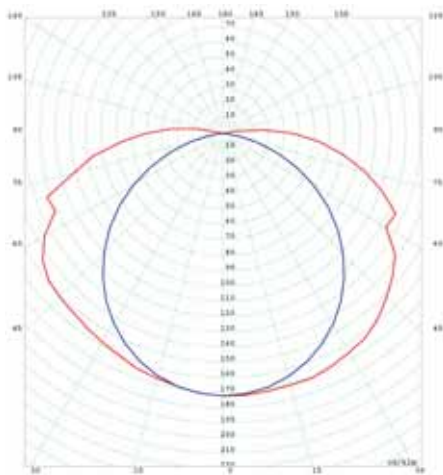
CODE: EVF-118EB
CODICE:



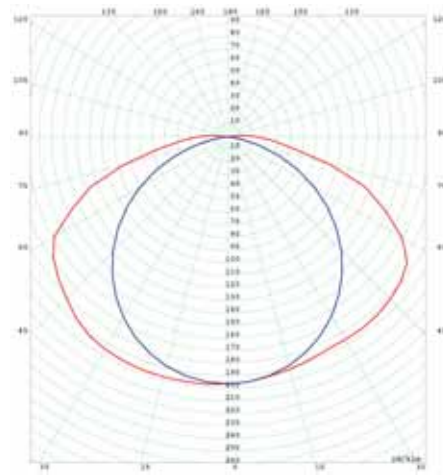
CODE: EVF-136EB
CODICE:



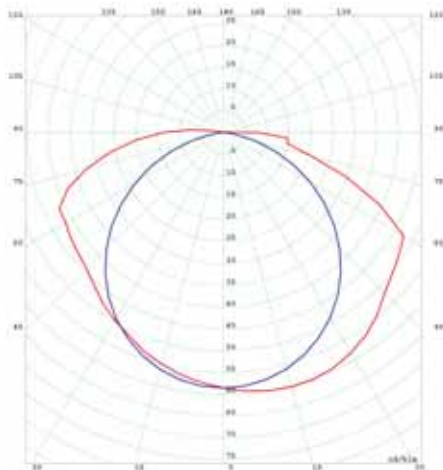
CODE: EVF-158EB
CODICE:



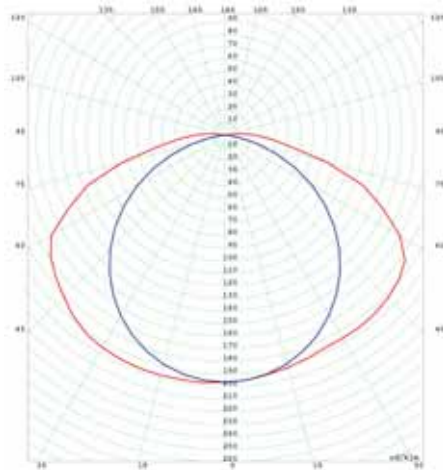
CODE: EVF-218EB
CODICE:



CODE: EVF-218EF4
CODICE:



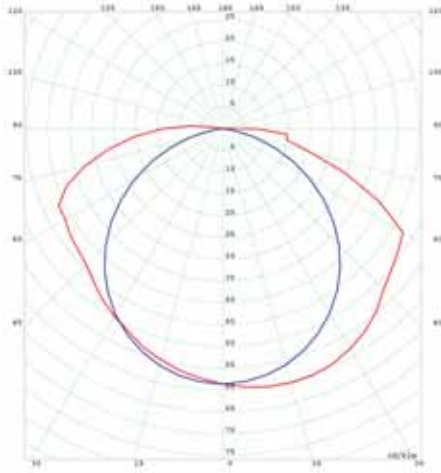
CODE: EVF-236EB
CODICE:



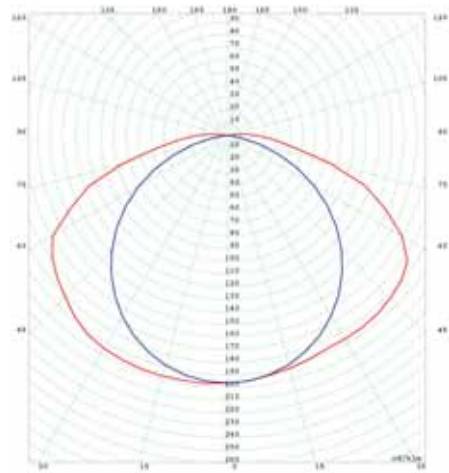
— = *piano* - piano 90270
— = *piano* - piano C 0180

PHOTOMETRIC DIAGRAM - CURVE FOTOMETRICHE

CODE: EVF-236EF4
 CODICE:



CODE: EVF-258EF4
 CODICE:



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

