



TECHNICAL FEATURES

AVN series lighting fixtures consist of a glass charged polyester resin body and a transparent polycarbonate cup fastened by a series of stainless steel hinges.

ACCESSORIES (*)

- Fluorescent tube

(*) Order separately specifying the article code



CARATTERISTICHE TECNICHE

Le armature illuminanti della serie AVN sono costituite da un corpo in resina poliestere caricata vetro e da una coppa trasparente in polycarbonato chiusi tra di loro tramite una serie di cerniere in acciaio inox

ACCESSORI (*)

- Tubo fluorescente

(*) Ordinare separatamente specificando il cod. articolo



CONFORMITY TO STANDARDS

Explosion-proof lighting fixtures built to CENELEC standards EN 60079-15: 2005, 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 in potentially hazardous atmospheres containing explosive or combustible gases and dusts.

They are installed in the following zones: **zone 2 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 3GD Ex nA II T4/T5 Ex tD A22 IP 65
(Protection against combustible gases and dusts)

II 3D Ex tD A22 IP 65 T80°C T65°C

(Protection against combustible dusts)

Max surface temperature: 80°C (T4) 65°C (T5)

Normal ambient temperature: -25°C +50°C

Emergency ambient temperature: -25°C +40°C

CE test certification of type: **CESI 01 ATEX 070**

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 60079-15: 2005, 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 dove esiste pericolo di esplosioni o combustioni di gas e di polveri combustibili.

Vengono installate nelle seguenti zone: **zona 2, 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 3GD Ex nA II T4/T5 Ex tD A22 IP 65
(Protezione contro gas e polveri combustibili)

II 3D Ex tD A22 IP 65 T80°C T65°C

(Protezione contro polveri combustibili)

Temperatura massima superficiale: 80°C (T4) 65°C (T5)

Temperatura ambiente **normali:** -25°C +50°C

Temperatura ambiente **emergenza:** -25°C +40°C

Certificato di esame CE del tipo: **CESI 01 ATEX 070**

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 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

Lampholder: G13 Two-pin
 Rated voltage: 230 V ac (110/230 V ac upon request)
 Rated frequency: 50/60 Hz
 Wiring: Direct connection to the terminal box L, N, Pe section 2.5 mm² terminal box connected via jumpers for input-output.
 Power factor: 0.96



DATI TECNICI

Portalampane: Bispina G13
 Tensione Nominale: 230 V ac (110/230 V ac a richiesta)
 Frequenza Nominale: 50/60 Hz
 Connessione: Direttamente alla morsetteria L, N, Pe sez. 2,5 mm² morsetteria ponticellata adatta per l'entra-esce.
 Power factor: 0,96

SELECTION TABLE - TABELLA DI SELEZIONE

LAMP POWER	NO. OF FLUORESCENT TUBES	TEMPERATURE CLASS	LIGHTING FIXTURE TYPE
POTENZA LAMPADA	N° TUBI FLUORESCENTI	CLASSE TEMPERATURA	TIPO ARMATURA ILLUMINANTE
OPERATION WITH ELECTRONIC BALLAST FUNZIONAMENTO CON REATTORE ELETTRONICO			
18 W	1	T5 - T4	AVN-118
36 W	1	T5 - T4	AVN-136
58 W	1	T5 - T4	AVN-158
18 W	2	T5 - T4	AVN-218
36 W	2	T5 - T4	AVN-236
58 W	2	T5 - T4	AVN-258
ONLY EMERGENCY OPERATION WITH ELECTRONIC BALLAST FUNZIONAMENTO SOLO EMERGENZA CON REATTORE ELETTRONICO			
18 W	1	T5 - T4	AVN-118EE4
18 W	1	T5 - T4	AVN-118EE7
36 W	1	T5 - T4	AVN-136EE4
36 W	1	T5 - T4	AVN-136EE7
58 W	1	T5 - T4	AVN-158EE4
58 W	1	T5 - T4	AVN-158EE7
NORMAL + EMERGENCY OPERATION WITH ELECTRONIC BALLAST FUNZIONAMENTO NORMALE + EMERGENZA CON REATTORE ELETTRONICO			
18 W	2	T5 - T4	AVN-218EF7
36 W	1	T5 - T4	AVN-136EF7
36 W	2	T5 - T4	AVN-236EF7
58 W	1	T5 - T4	AVN-158EF7
58 W	2	T5 - T4	AVN-258EF7
18 W	2	T5 - T4	AVN-218EF4
36 W	1	T5 - T4	AVN-136EF4
36 W	2	T5 - T4	AVN-236EF4
58 W	1	T5 - T4	AVN-158EF4
58 W	2	T5 - T4	AVN-258EF4



NOTES

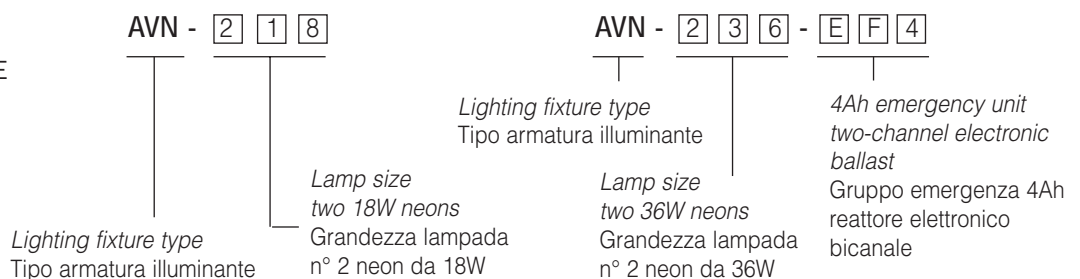
AVN...series lighting fixtures :
 • T5 with ambient temp. -25°C +40°C
 • T4 with ambient temp. -25°C +50°C
 AVN... EF... series lighting fixtures: • T5 with ambient temp. -25°C +40°C



NOTE

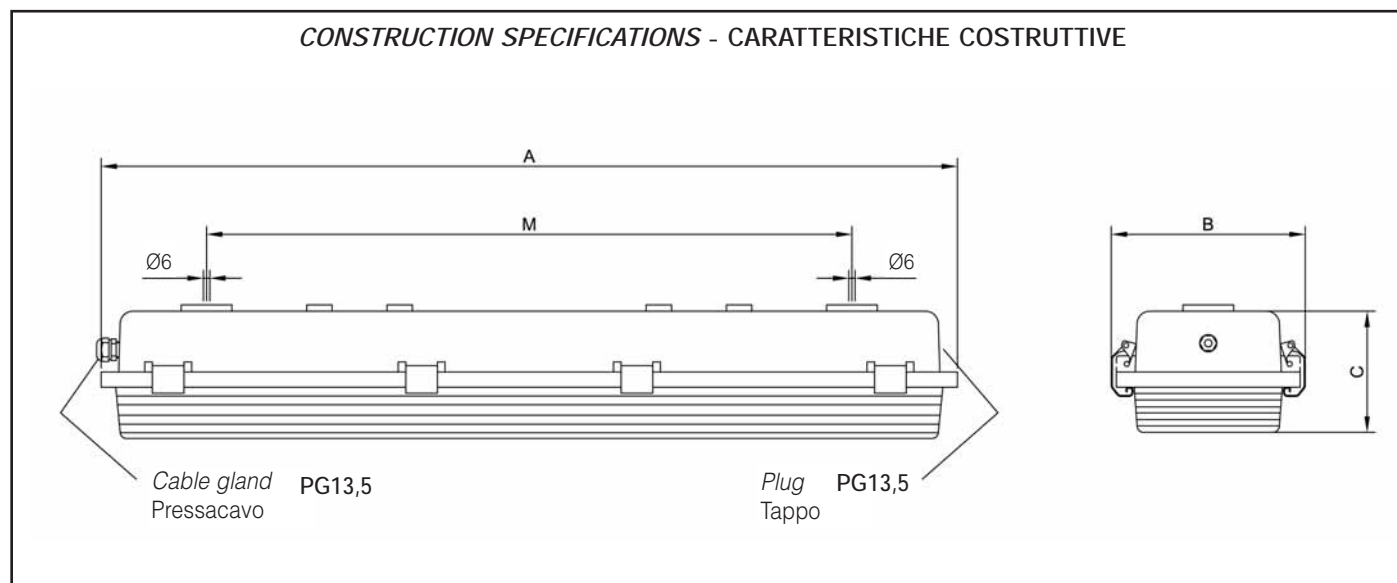
Armature illuminanti AVN...:
 • T5 con temperatura ambiente -25°C +40°C
 • T4 con temperatura ambiente -25°C +50°C
 Armature illuminanti AVN... EF...: • T5 con temperatura ambiente -25°C +40°C

**ORDER CODE EXAMPLES
ESEMPI CODICE D'ORDINE**



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

TYPES AND SPECIFICATIONS TIPI E CARATTERISTICHE	3GD Protection: gases-dusts Protezione: gas-polveri	AVN...	Painted electronic ballasts Reattori elettronici verniciati
	3D Protection: dusts Protezione: polveri		Electronic ballasts on air Reattori elettronici in aria



MODEL - MODELLO	DIMENSIONS - DIMENSIONI (mm)				WEIGHT - PESO (Kg)
	A	B	C	M	
AVN-118	670	100	105	230	2,2
AVN-136	1275	100	105	840	3,5
AVN-158	1560	100	105	1140	4,7
AVN-218	670	170	105	230	2,7
AVN-236	1275	170	105	840	5,2
AVN-258	1560	170	105	1140	6,6
AVN-118E..	670	100	105	230	6
AVN-136E..	1275	100	105	840	8,3
AVN-158E..	1560	100	105	1140	9,6
AVN-218E..	670	170	105	230	6,5
AVN-236E..	1275	170	105	840	10,0
AVN-258E..	1560	170	105	1140	11,5



STRUCTURE




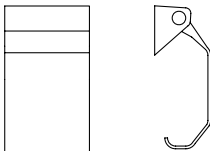
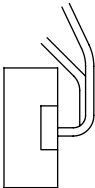
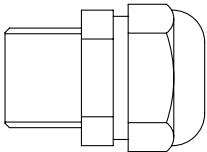
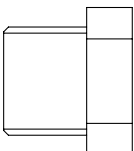
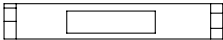
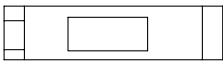
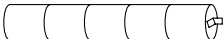
- Grey polyester resin body reinforced with UV-resistant glass fibre
- V0 (UL 94) guaranteed self-extinguishing and UV-resistant transparent polycarbonate cup
- Stainless steel fastening hinges
- Supporting internal white plasticized aluminium reflector
- Stainless steel screws
- Wiring consisting of silicone rubber cables with glass braid insulation up to 200°C
- Neoprene seals resistant to acids and hydrocarbons

COSTRUZIONE



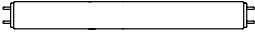
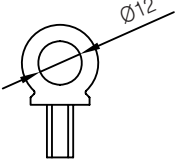
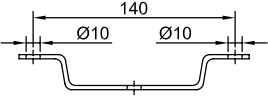
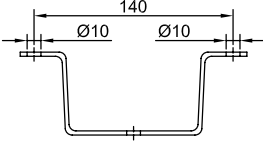
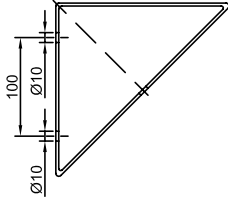
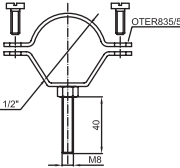


- Corpo in resina poliesteri grigia rinforzata con fibra di vetro resistente ai raggi UV
- Coppa trasparente in policarbonato con autoestinguenza garantita V0 (UL 94) resistente ai raggi UV
- Cerniere di chiusura in acciaio inox
- Riflettore interno portante in alluminio plastificato bianco
- Viteria in acciaio inox
- Cablaggio eseguito con cavi in gomma silconica con protezione in treccia di vetro resistenti fino a 200°C
- Guarnizione in neoprene resistente agli acidi ed agli idrocarburi

ACCESSORIES AND SPARE PARTS - ACCESSORI E PARTI DI RICAMBIO

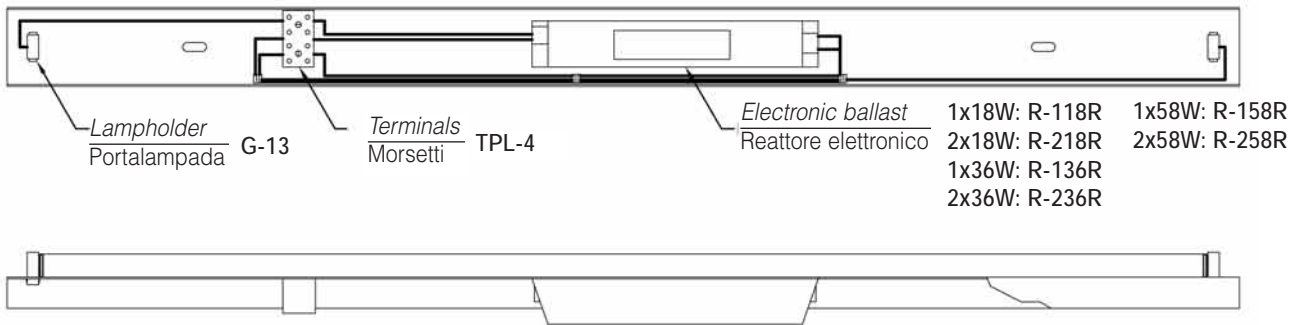
ILLUSTRATION ILLUSTRAZIONE	 DESCRIPTION	 DESCRIZIONE	SIZE GRANDEZZA	SPECIFICATIONS CARATTERISTICHE	CODE CODICE
	Transparent polycarbonate cup	Coppa trasparente in policarbonato	1 x 18 W		COP-118
			2 x 18 W		COP-218
			1 x 36 W		COP-136
			2 x 36 W		COP-236
			1 x 58 W		COP-158
			2 x 58 W		COP-258
	Stainless steel fastening hinge	Cerniera di chiusura in acciaio inox			GCI-1
	Lampholder	Portalampane	G13	250V 4A	STU-254/S
	Cable gland with set of rubber pads, seal and lock nut	Pressacavo completo di set di gommini, di guarnizione e di controdado	Pg 13,5	Ex e II IP 66/67	UNP4XE DL4PXEP
	Plug with seal and lock nut	Tappo completo di guarnizione e di controdado	Pg 13,5	Ex e II IP 66/67	PLG4PIXEP DL4PXEP
	Electronic ballast	Reattore elettronico	1 x 18 W	220/240V 50/60Hz 110/230V (upon request) (a richiesta)	R-118R
			2 x 18 W		R-218R
			1 x 36 W		R-136R
			2 x 36 W		R-236R
			1 x 58 W		R-158R
			2 x 58 W		R-258R
	Electronic Inverter	Inverter elettronico		110-220V 50-60Hz	INVERTER/D
	Battery pack	Gruppo batterie		4Ah	BATT4HA/D
				7Ah	BATT7HA/D

Ex n

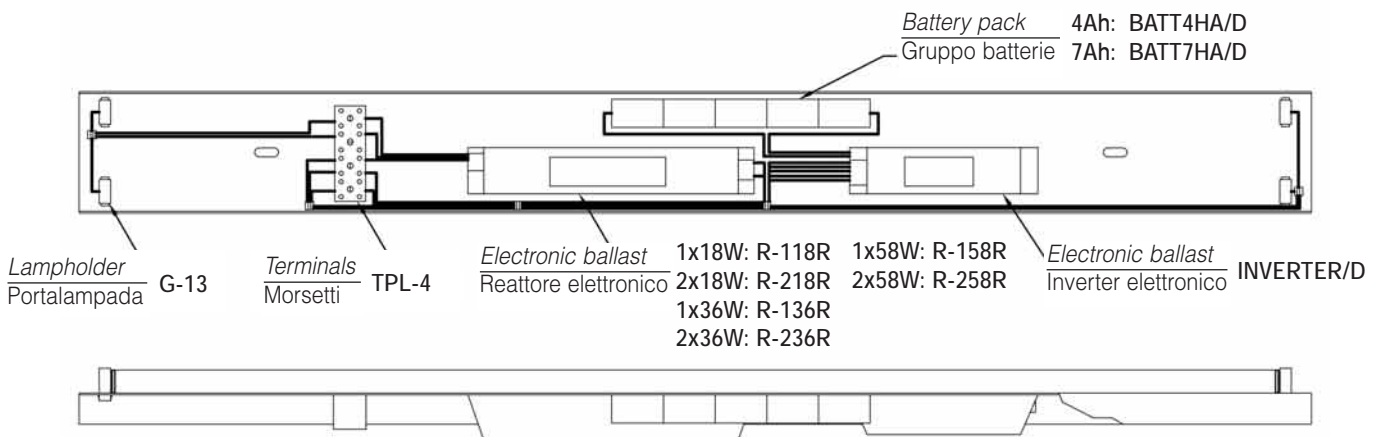
ACCESSORIES AND SPARE PARTS - ACCESSORI E PARTI DI RICAMBIO					
ILLUSTRATION ILLUSTRAZIONE	 DESCRIPTION	 DESCRIZIONE	SIZE GRANDEZZA	SPECIFICATIONS CARATTERISTICHE	CODE CODICE
	Fluorescent tubes (upon request)	Tubi fluorescenti (a richiesta)	G13	18W	LAMP-L18W21
				36W	LAMP-L36W21
				58W	LAMP-L58W21
	Eyebolt	Golfare		Material: galvanized steel Materiale: acciaio zincato	
	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

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

SINGLE FIXTURE - NORMAL OPERATION - INTERNAL VIEW
 ARMATURA SINGOLA - FUNZIONAMENTO NORMALE - VISTA INTERNA



DOUBLE FIXTURE NORMAL + EMERGENCY OPERATION - INTERNAL VIEW
 ARMATURA DOPPIA - FUNZIONAMENTO NORMALE + EMERGENZA - VISTA INTERNA



Stainless tige type T
 Staffa tipo T inox
 T



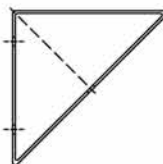
Eybolt type O
 Golfare tipo O
 GOF-M6



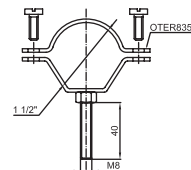
Bracket type U
 Staffa tipo U
 G-244



Bracket type V
 Staffa tipo V
 G-263

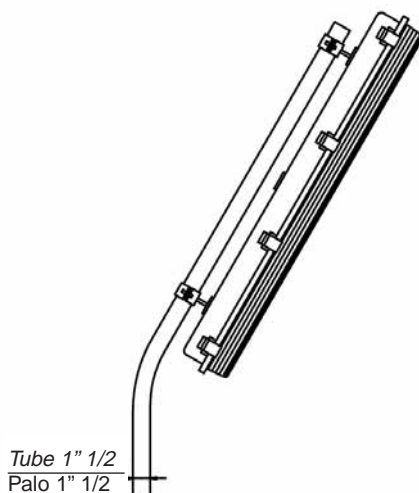


Bracket type D
 Staffa tipo D
 G-258

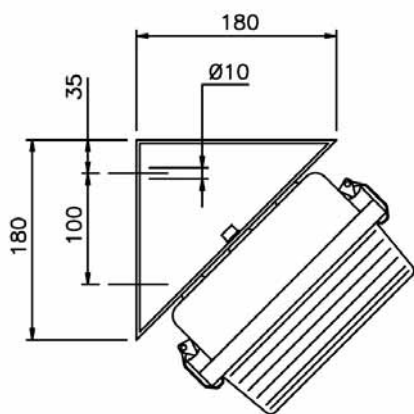


Bracket type P
 Staffa tipo P
 G-0480

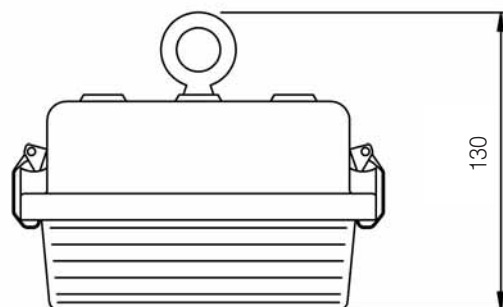
INSTALLATIONS METHODS - METODI DI INSTALLAZIONE



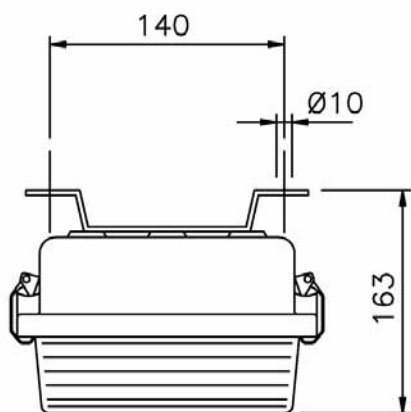
P-SHAPED - 1.1/2" rod attachment with metallic clamp - Attacco a palina da 1.1/2" con fascette metalliche - TIPO "P"



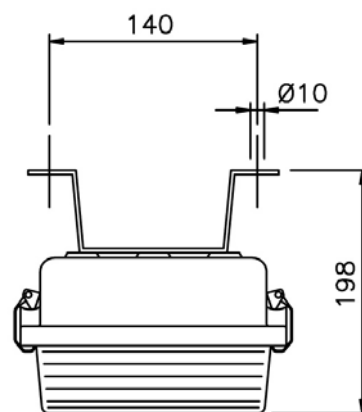
45° angular clamps - TYPE "D"
Staffe angolari a 45° - TIPO "D"



Suspended mounting with eyebolt - TYPE "O"
Attacchi a sospensione con golfare - TIPO "O"



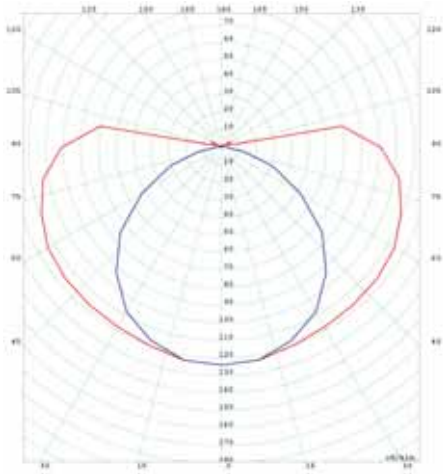
Ceiling clamps, low model - TYPE "U"
Staffe a soffitto modello basso - TIPO "U"



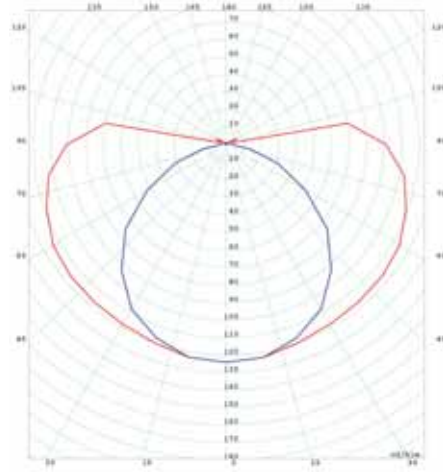
Ceiling clamps, high model - TYPE "V"
Staffe a soffitto modello alto - TIPO "V"

PHOTOMETRIC DIAGRAM - CURVE FOTOMETRICHE

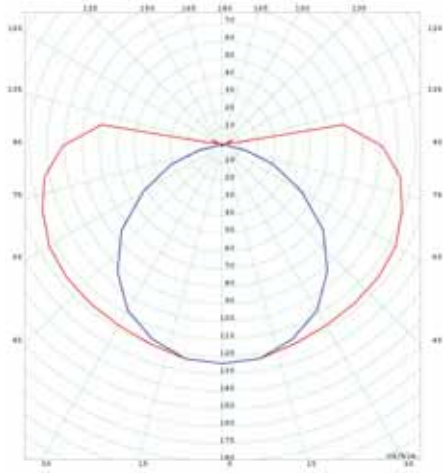
CODE: AVN-118
CODICE:



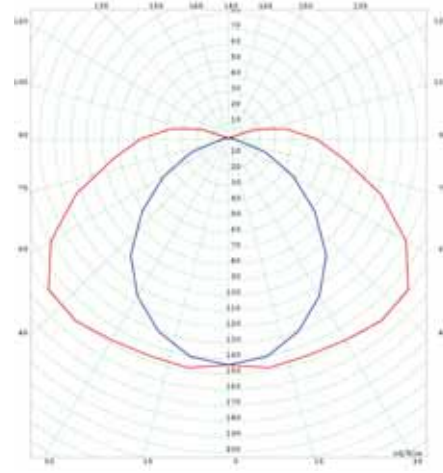
CODE: AVN-136
CODICE:



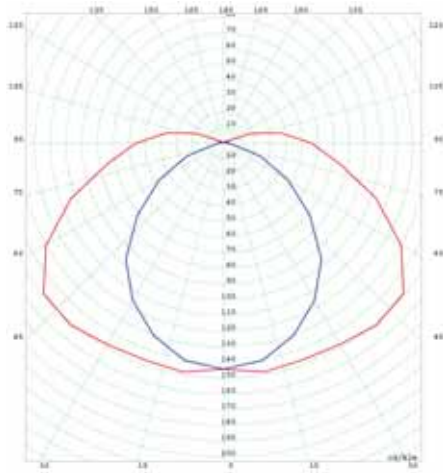
CODE: AVN-158
CODICE:



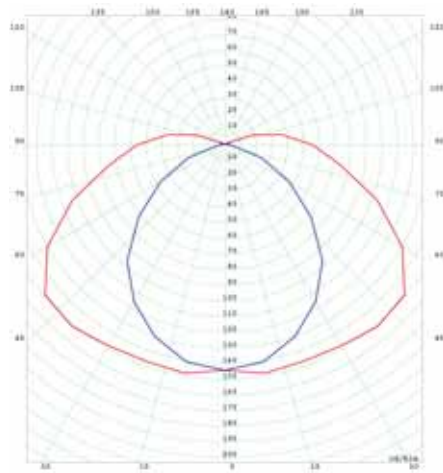
CODE: AVN-218
CODICE:



CODE: AVN-236
CODICE:



CODE: AVN-258
CODICE:



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

Ex n