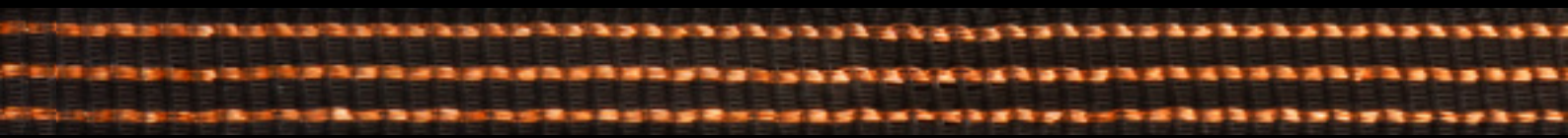


FIL ROUGE
ANTONANGELI ARCHITECTURAL

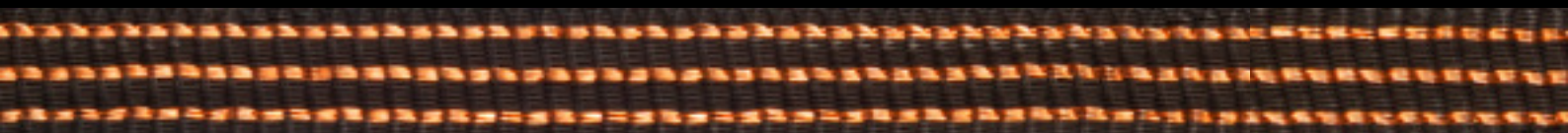




"Mi piace pensare di poter tendere un nastro nello spazio, un nastro leggero, quasi impercettibile agli occhi, che tuttavia sia capace di condurre l'energia utile ad alimentare piccoli corpi illuminanti. Così è nato Fil Rouge..."

"I like to think I can stretch a ribbon in space, a light ribbon - almost imperceptible to the eye - that can conduct low voltage energy to power lighting elements with very small volumes. Fil Rouge was born in this way..."

Gianfranco Marabese, 2022



FIL ROUGE

INDOOR COLLECTION

design Gianfranco Marabese 2022

Fil Rouge nasce dal desiderio di Antonangeli di offrire soluzioni innovative di luce: attraverso la ricerca costante di tecnologie, materiali, applicazioni, che consentano di realizzare prodotti originali, che nello stesso tempo rispondano ad esigenze di utilizzo differenziate, di facile applicazione.

Diciotto rocchetti di filo di rame tessuti con fili in tecnopolimero, creano un nastro sottilissimo alto 1 mm e largo 18 mm. Al centro, tre 'piste' ottenute con i fili di rame, conducono energia elettrica a bassa tensione, per ospitare e collegare una serie di apparecchi di piccola dimensione, che sembrano "galleggiare" nello spazio, grazie all' assenza di volume del nastro. Fil rouge attraversa lo spazio in modo quasi invisibile, nella direzione desiderata, conducendo l'energia necessaria ad alimentare i corpi illuminanti, applicabili su misura: liberamente, in modo semplice e veloce. Il nastro, da utilizzare per ogni applicazione, viene avvolto in una spirale, occupando uno spazio ridottissimo, per poi essere svolto e messo in tensione tra parete e parete, tra parete e soffitto o tra terra e soffitto.

Fil Rouge si aggiunge alle Collezioni Archetto, arricchendo la proposta Antonangeli Architectural: incrementando l'offerta di soluzioni progettuali.

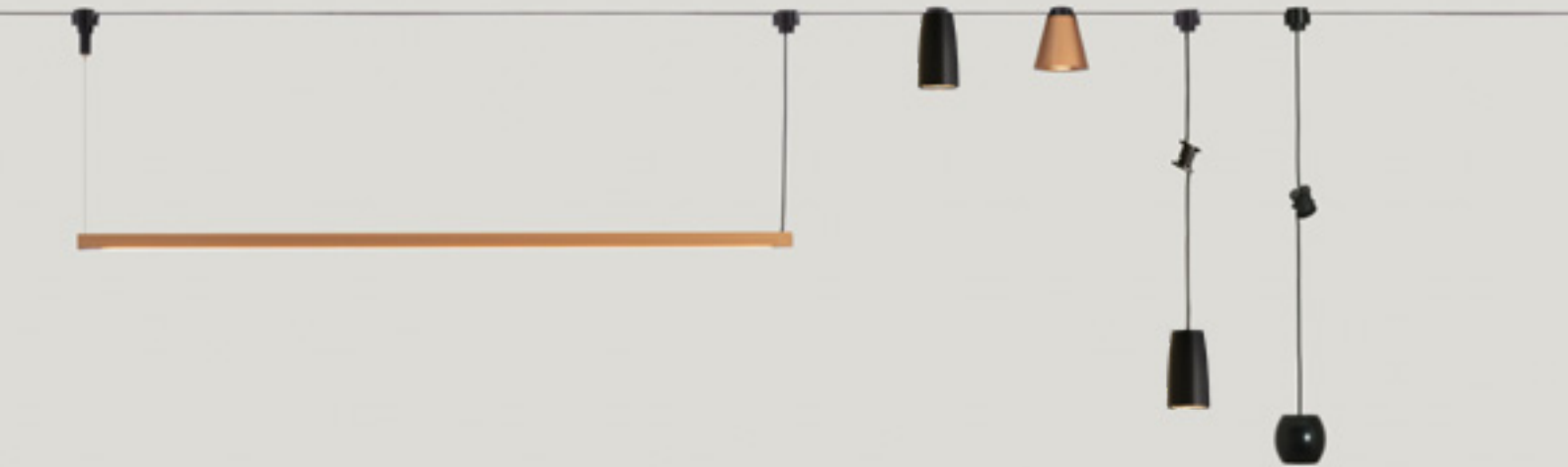
Fil Rouge was born from Antonangeli's desire to offer innovative lighting solutions through the constant research of technologies, materials, applications that allow the creation of original products, which at the same time respond to the needs of differentiated use, easy to apply.

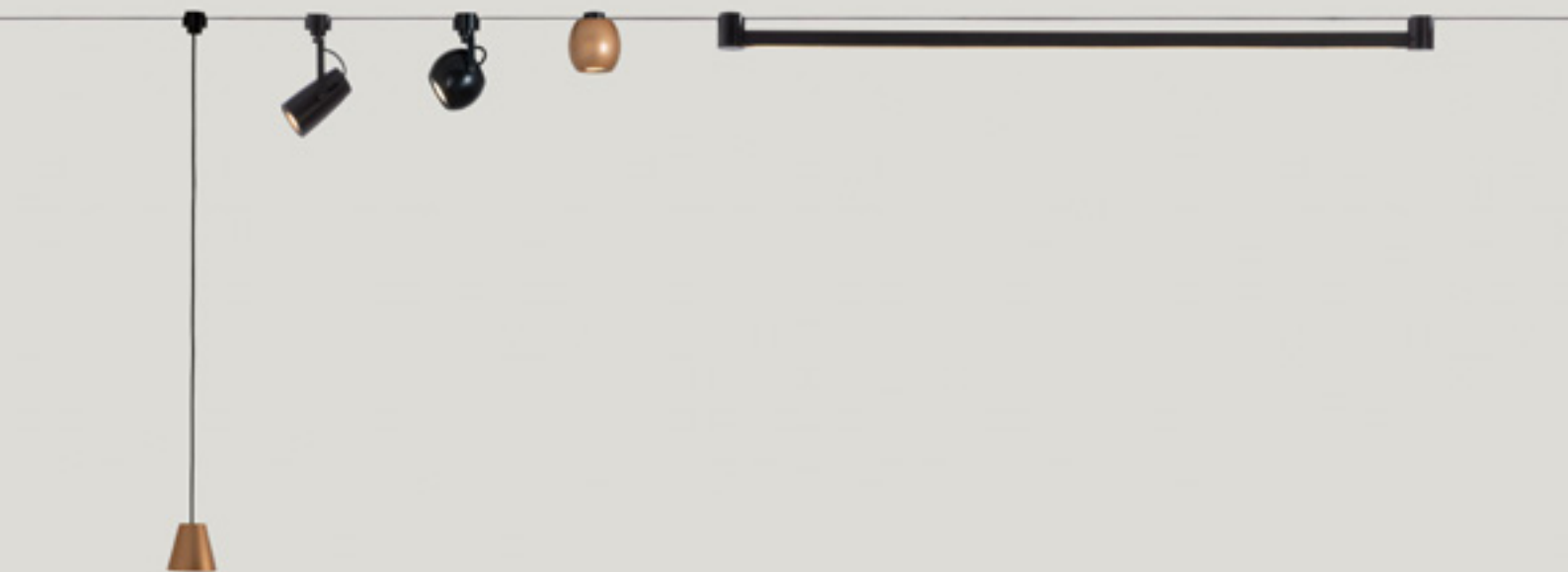
Eighteen spools of copper wire woven with technopolymer wires create a very thin ribbon 1 mm high and 18 mm wide. In the center, three "tracks" obtained with copper wires, conduct low voltage electricity, to house and connect a series of small devices, which seem to support themselves in thin air, thanks to the lack of volume of the tape. Fil rouge crosses the space almost invisibly, in the desired direction, conducting the energy needed to power the lightingbodies, which can be applied to measure, quickly and easily. The tape, to be used for each application, is wound in a spiral, occupying a very small space, to then be unwound and tensioned between wall and wall, between wall and ceiling or ground and ceiling

Fil Rouge is added to the Archetto Collections, enriching the Antonangeli Architectural proposal, increasing the offer solutions for timely and dedicated lighting projects.









In queste pagine sono presentate le tipologie di corpi illuminanti applicabili al nastro conduttore. Cono, Sfera, Proiettore e Barra, sono soluzioni minimali realizzate in alluminio anodizzato nero o rame.

These pages show the types of lighting bodies applicable to the conducting tape. Cone, Sphere, Projector and Bar: are minimal solutions made of black or copper anodized aluminium.



















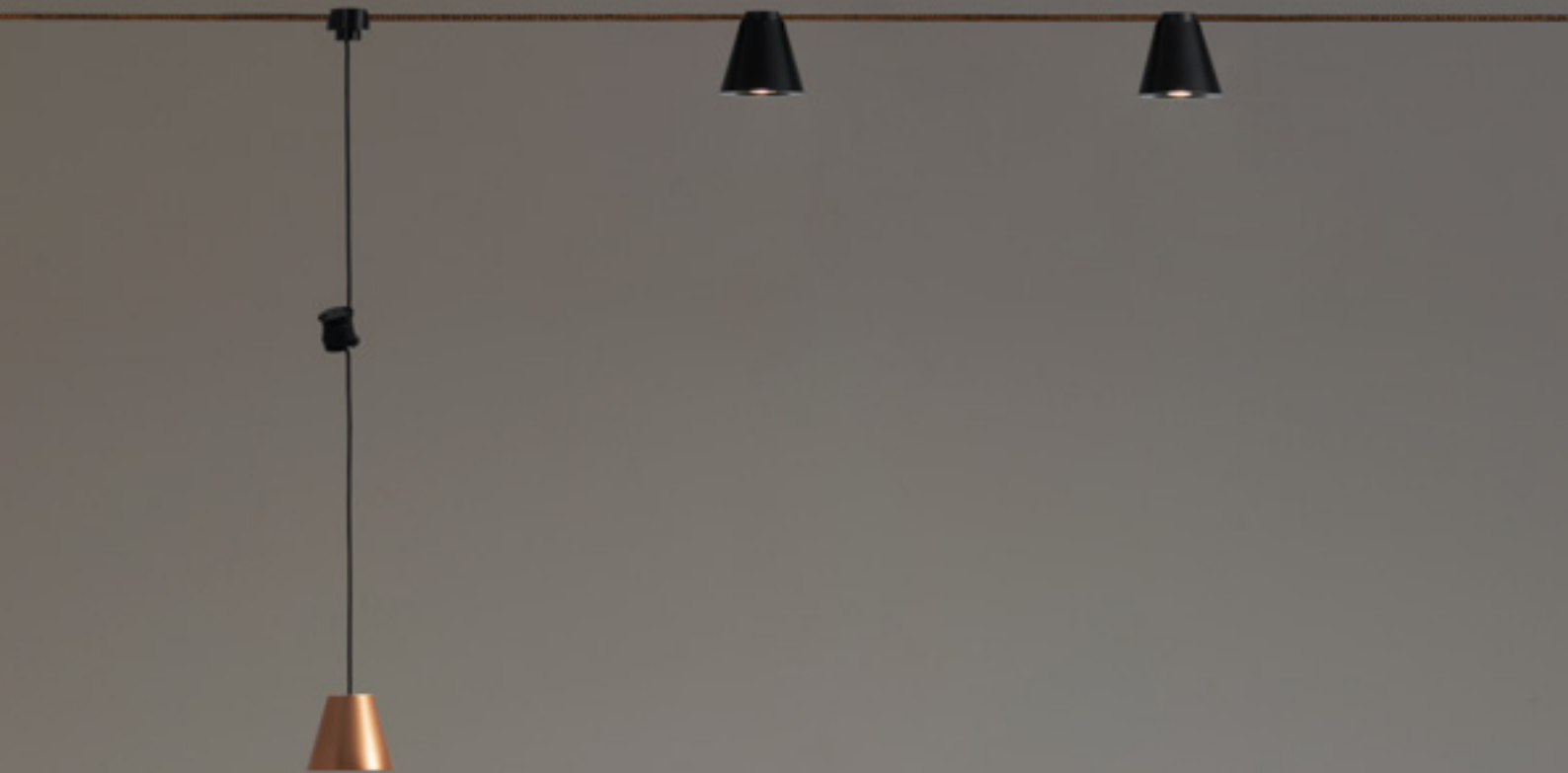


















Contrappeso tensionale/Tension counterweight





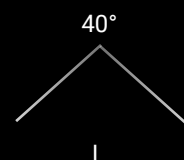
Deviatore cambio direzione/ Diverter change direction

RANGE COMPONENTI

COMPONENTS RANGE

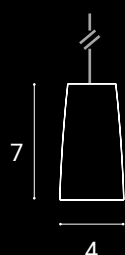
Alluminio tornito da barra e anodizzato.
Sistema alimentato 24 V.

Machined from bar and anodized aluminum.
24 V powered system.



Cod. FILC01PNES Nero/Black
Cod. FILC01PNEM Nero/Black
Cod. FILC01PNEL Nero/Black

Cod. FILC01PRAS Rame/Copper
Cod. FILC01PRAM Rame/Copper
Cod. FILC01PRAL Rame/Copper

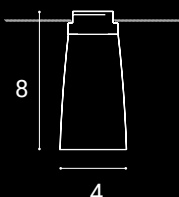


Proiettore a sospensione con filo h.100cm
rocchetto avvolgibile in dotazione

Suspended projector with h.100cm wire
roll-up reel supplied

Cod. FILC02PNES Nero/Black
Cod. FILC02PNEM Nero/Black
Cod. FILC02PNEL Nero/Black

Cod. FILC02PRAS Rame/Copper
Cod. FILC02PRAM Rame/Copper
Cod. FILC02PRAL Rame/Copper

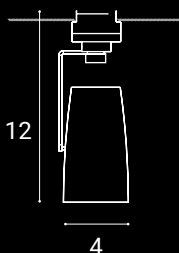


Proiettore ad attacco diretto su nastro

Direct attachment projector on tape

Cod. FILC03PNES Nero/Black
Cod. FILC03PNEM Nero/Black
Cod. FILC03PNEL Nero/Black

Cod. FILC03PRAS Rame/Copper
Cod. FILC03PRAM Rame/Copper
Cod. FILC03PRAL Rame/Copper

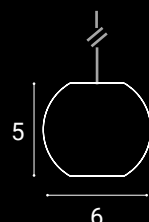


Proiettore orientabile

Directional projector

Cod. FILC01SNES Nero/Black
Cod. FILC01SNEM Nero/Black
Cod. FILC01SNEL Nero/Black

Cod. FILC01SRAS Rame/Copper
Cod. FILC01SRAM Rame/Copper
Cod. FILC01SRAL Rame/Copper

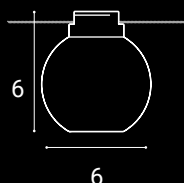


Sfera a ospensione con filo h.100cm
rocchetto avvolgibile in dotazione

Suspended sphere with h.100cm wire
roll-up reel supplied

Cod. FILC02SNES Nero/Black
Cod. FILC02SNEM Nero/Black
Cod. FILC02SNEL Nero/Black

Cod. FILC02SRAS Rame/Copper
Cod. FILC02SRAM Rame/Copper
Cod. FILC02SRAL Rame/Copper



Sfera ad attacco diretto su nastro

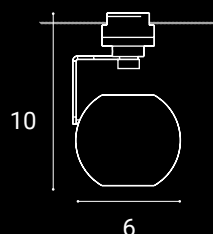
Direct attachment sphere on tape

RANGE COMPONENTI

COMPONENTS RANGE



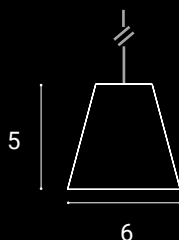
Cod. FILC03SNES Nero/Black
 Cod. FILC03SNEM Nero/Black
 Cod. FILC03SNEL Nero/Black



Sfera orientabile
 Directional sphere

Cod. FILC03SRAS Rame/Copper
 Cod. FILC03SRAM Rame/Copper
 Cod. FILC03SRAL Rame/Copper

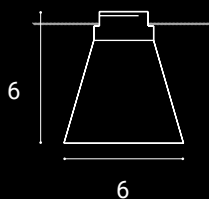
Cod. FILC01CNES Nero/Black
 Cod. FILC01CNEM Nero/Black
 Cod. FILC01CNEL Nero/Black



Cono a sospensione con filo h.100cm
 rochetto avvolgibile in dotazione
 Suspended cone with h.100cm wire
 roll-up reel supplied

Cod. FILC01CRAS Rame/Copper
 Cod. FILC01CRAM Rame/Copper
 Cod. FILC01CRAL Rame/Copper

Cod. FILC02CNES Nero/Black
 Cod. FILC02CNEM Nero/Black
 Cod. FILC02CNEL Nero/Black



Cono ad attacco diretto su nastro
 Direct attachment cone on tape

Cod. FILC02CRAS Rame/Copper
 Cod. FILC02CRAM Rame/Copper
 Cod. FILC02CRAL Rame/Copper

Cod. FILC01BNE Nero/Black

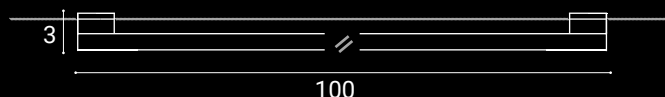


Barra a ospensione con filo h.100cm
 rochetto avvolgibile in dotazione

Cod. FILC01BRA Rame/Copper

Suspended bar with h.100cm wire
 roll-up reel supplied

Cod. FILC02BNE Nero/Black



Barra ad ttacco diretto su nastro
 Direct attachment bar on tape

Cod. FILC02BRA Rame/Copper

RANGE COMPONENTI

COMPONENTS RANGE



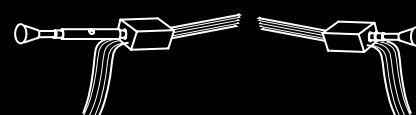
NASTRO/Tape

Cod.FILN01	L. 500 cm
Cod.FILN02	L. 1000 cm
Cod.FILN03	L. 1500 cm
Cod.FILN04	L. 2000 cm



COPPIA DI TIRANTI nastro escluso/ TIE RODS tape excluded

Cod.FILT01



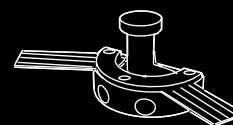
PIASTRA/CAVO per alimentazione remota/ PLATE AND CABLE for power supply

Cod.FILK03



DEVIATORE da parete-soffitto cambio direzione/ DIVERTER wall-ceiling change direction plate and cable for power supply

Cod.FILK01



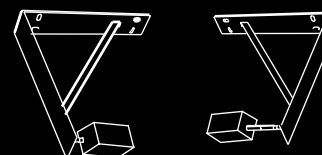
CONTRAPPESO TENSIONAL/ TENSION COUNTERWEIGHT

Cod.FILF01



COPPIA DI STAFFE NERE CON TIRANTE / BLACK BRACKET and TIE ROD

Cod.FILS01



BLOCCAGGIO NASTRO PARETE-SOFFITTO/ TAPE LOCK

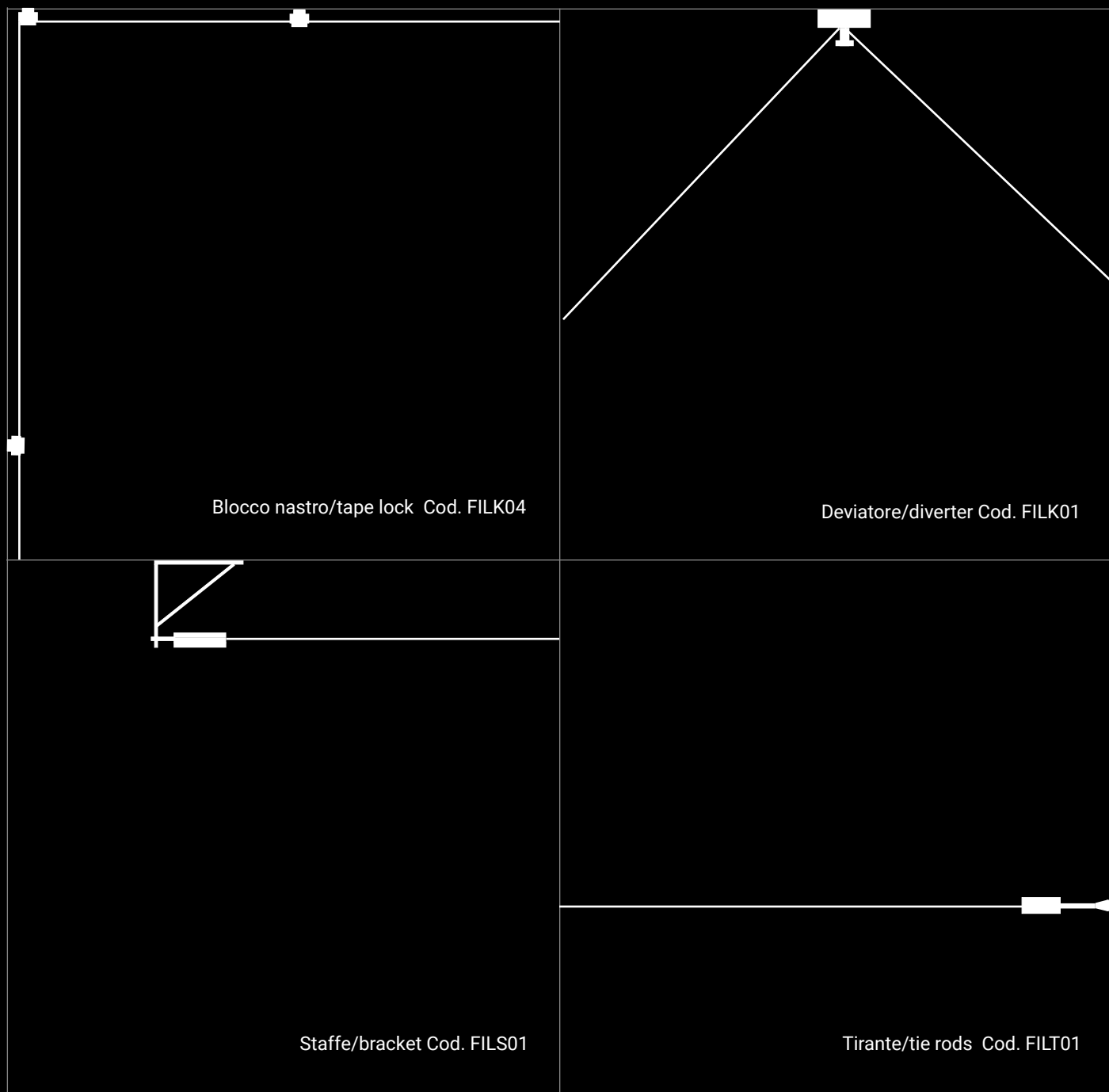
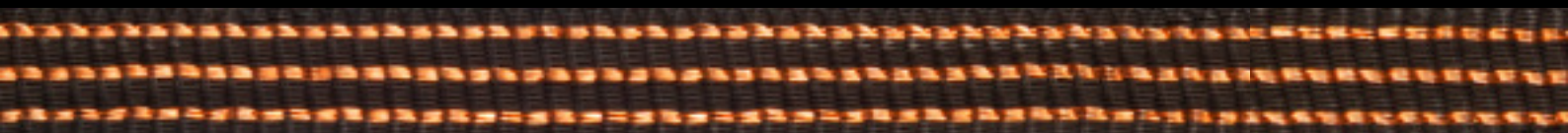
Cod.FILK04



CAVO DI SOSTEGNO/ SUPPORT CABLE

Cod.FILK02





RANGE DRIVER



DRIVE RANGE

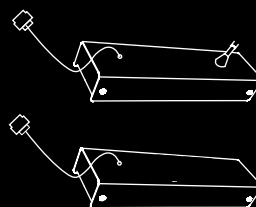
Amplia scelta di Driver per ogni tipo di applicazione e richiesta.

Wide choice of Drivers for every type of application and request.



Alimentatori con box in metallo nero per soffitto/parete
Metal black ceiling/wall power supplies with case

50W	Cod. FILDW01	on/off	28x8x6	24V	
100W	Cod. FILDW02	on/off	28x8x6	24V	
50W	Cod. FILDW01D	Dim.	28x8x6	24V	
100W	Cod. FILDW02D	Dim.	28x8x6	24V	
50W	Cod. FILDW01B	Dim.	28x8x6	24V	Dimmer 1/10
100W	Cod. FILDW02B	Dim.	28x8x6	24V	Dimmer 1/10

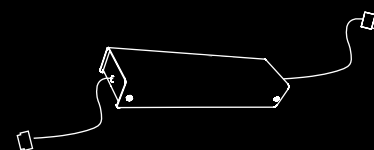


Alimentatore con box in metallo nero per soluzioni con spina
Plug solutions power supplies

60W Cod. FILDF01 Dim. 7,5x3x6,5 24V on/off





100W Cod. FILDF02 Dim. 28x13x6 24V Dimmer radio incluso/Dimmer radio included



* Controller bluetooth a richiesta/Bluetooth's controller on demand

Alimentatori remoti con piastra e cavo per alimentazione remota
Remote power supplies with plate

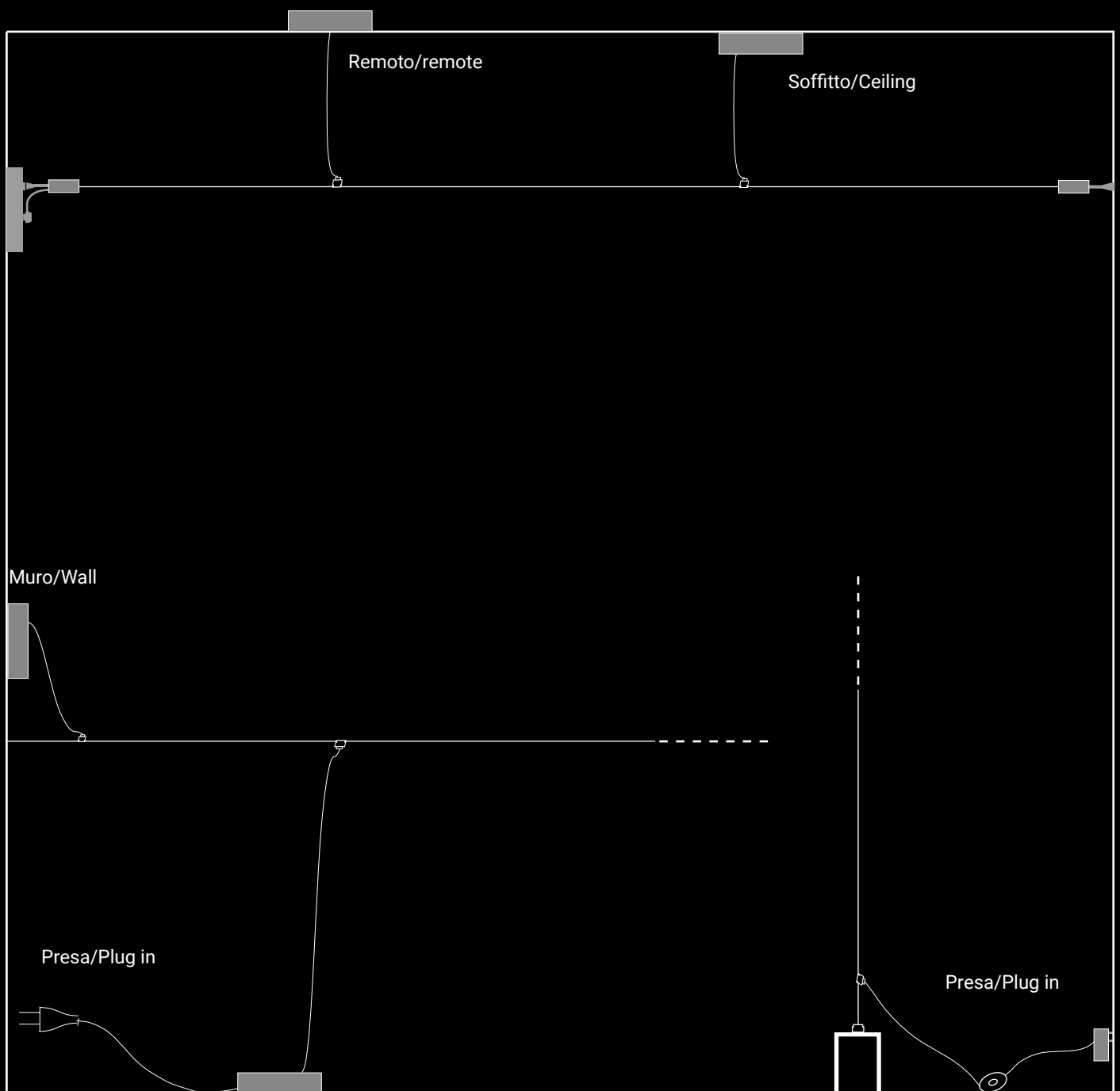
50W	Cod. FILDR01	on/off	28x8x6	24V	
100W	Cod. FILDR02	on/off	28x8x6	24V	
50W	Cod. FILDR01D	Dim.	28x8x6	24V	
100W	Cod. FILDR02D	Dim.	28x8x6	24V	
50W	Cod. FILDR01B	Dim.	28x8x6	24V	1/10
100W	Cod. FILDR02B	Dim.	28x8x6	24V	1/10



Misure espresse in cm/Centimeter measure-

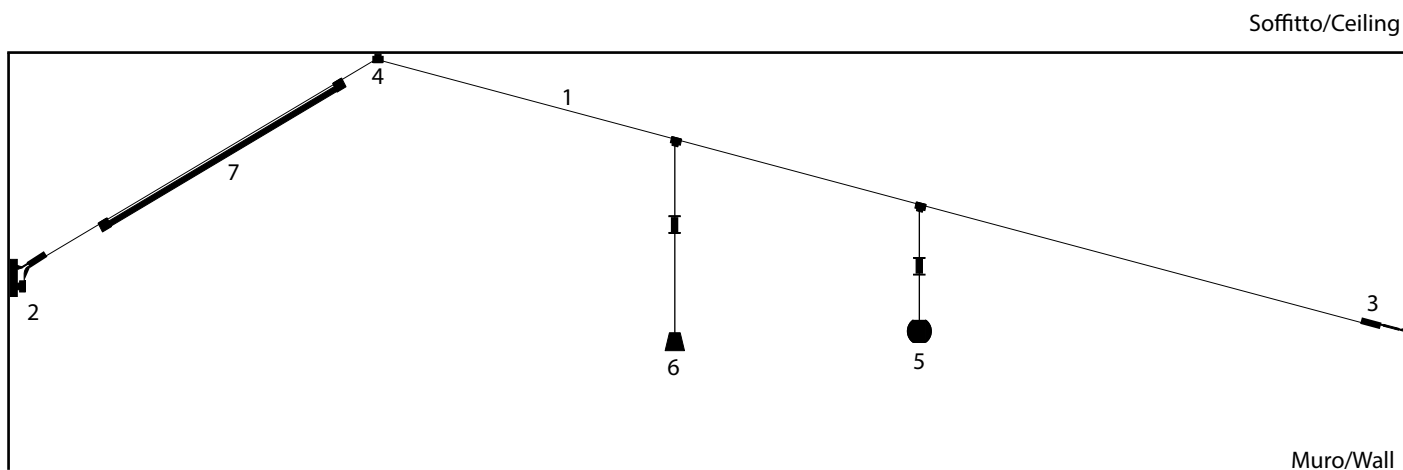
ALIMENTAZIONI

POWER SUPPLIES

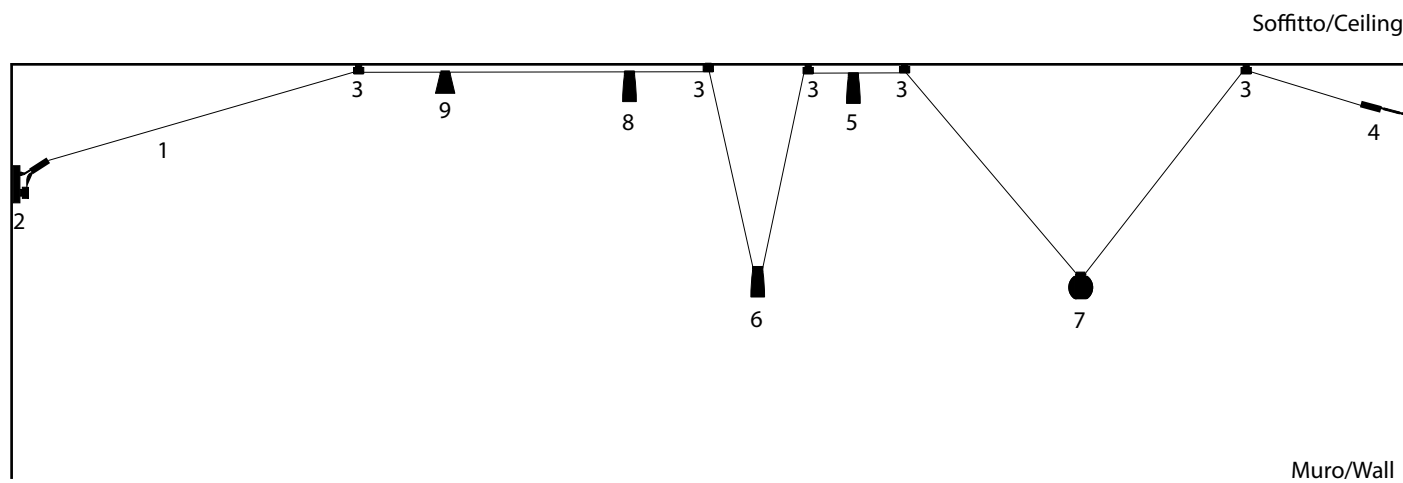


ESEMPI APPLICATIVI

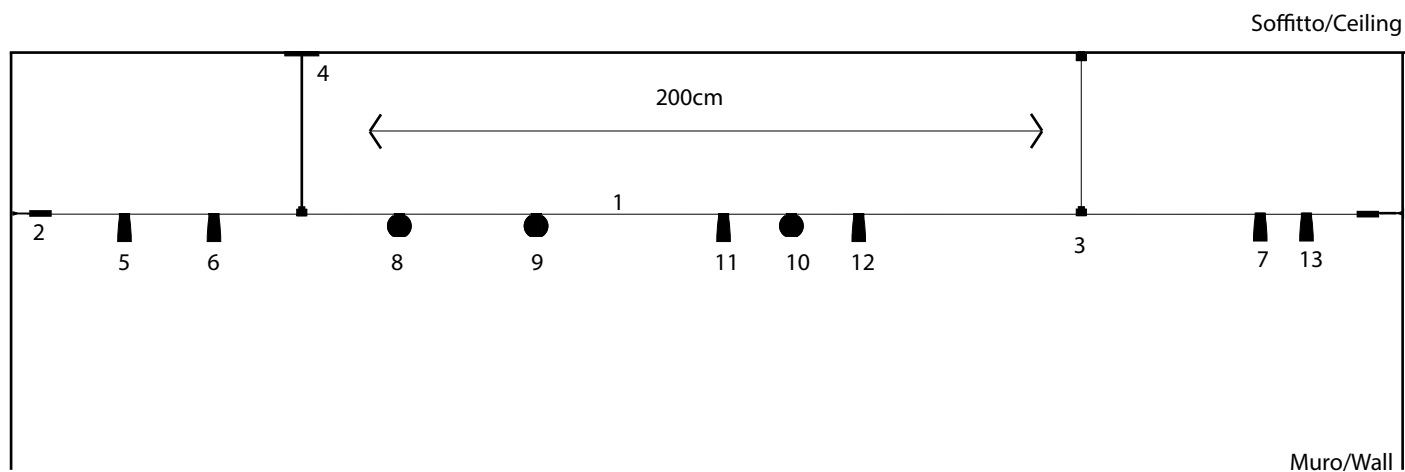
APPLICATIONS



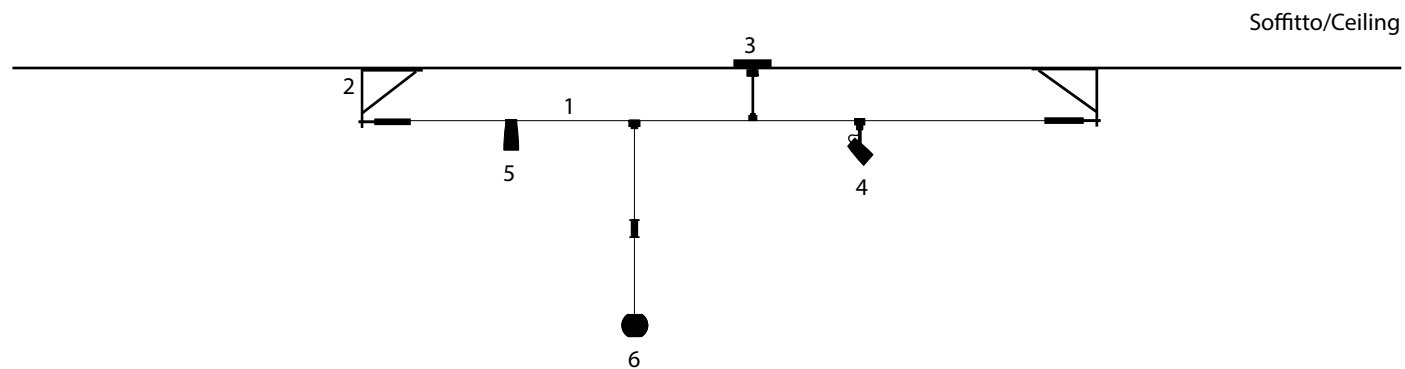
- 1. Cod.FILN01
- 2. Cod.FILDW01
- 3. Cod.FILT01
- 4. Cod.FILK04
- 5. Cod.FILC01SNES
- 6. Cod.FILC01CNEM
- 7. Cod.FILC02BNE



- 1. Cod.FILN02
- 2. Cod.FILDW02
- 3. Cod.FILK04
- 4. Cod.FILT01
- 5. Cod.FILC02PNES
- 6. Cod.FILC02PRAM
- 7. Cod.FILC02SRAS
- 8. Cod.FILC02PRAS
- 9. Cod.FILC02CNES



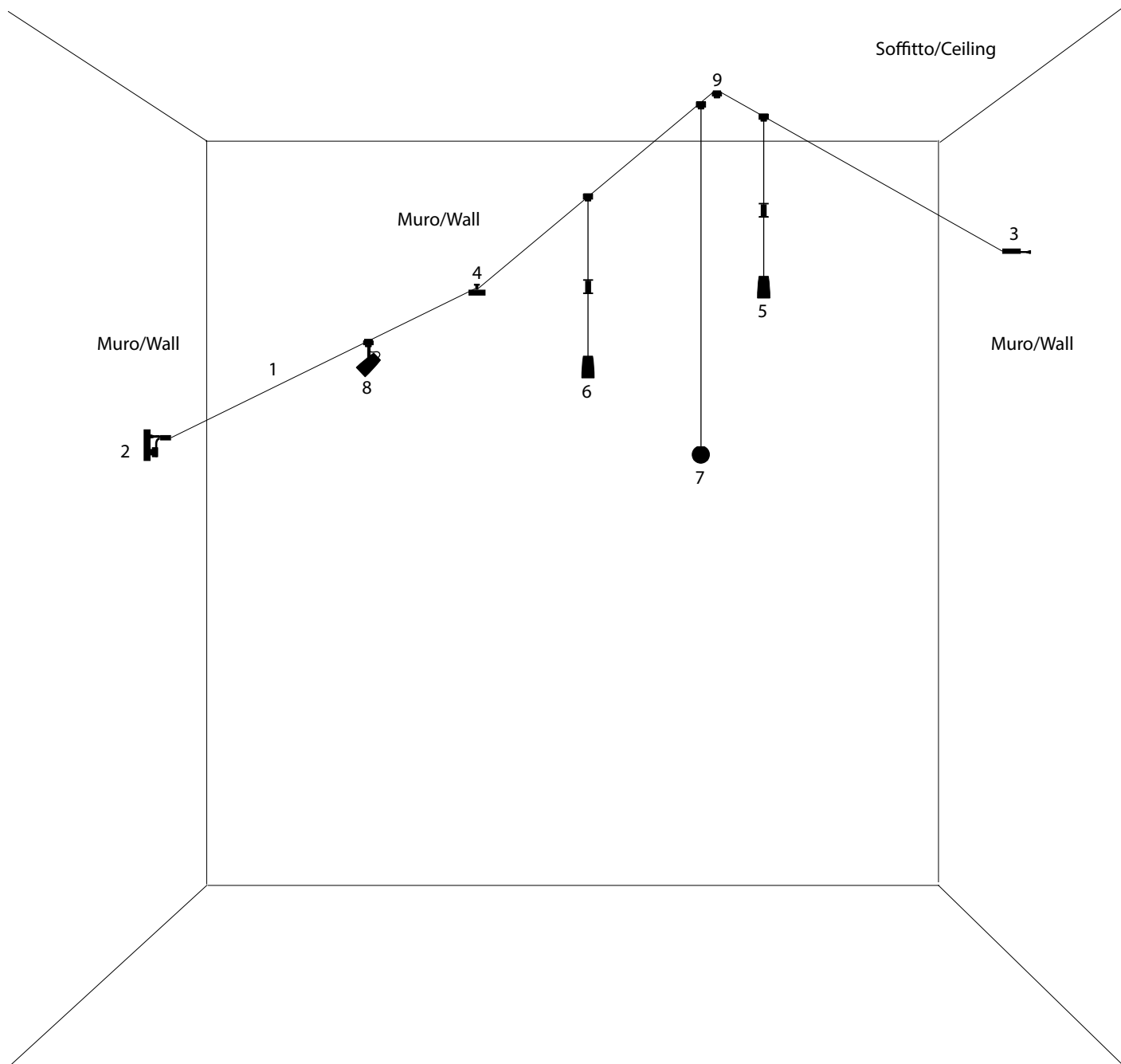
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- 2. Cod.FILT01
- 3. Cod.FILK02
- 4. Cod.FILK03
- 5. Cod.FILC02PRAS
- 6. Cod.FILC02PNES
- 7. Cod.FILC02PNES
- 8. Cod.FILC02SNES
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- 10. Cod.FILC02SRAS
- 11. Cod.FILC02PNES
- 12. Cod.FILC02PRAS
- 13. Cod.FILC02PNES



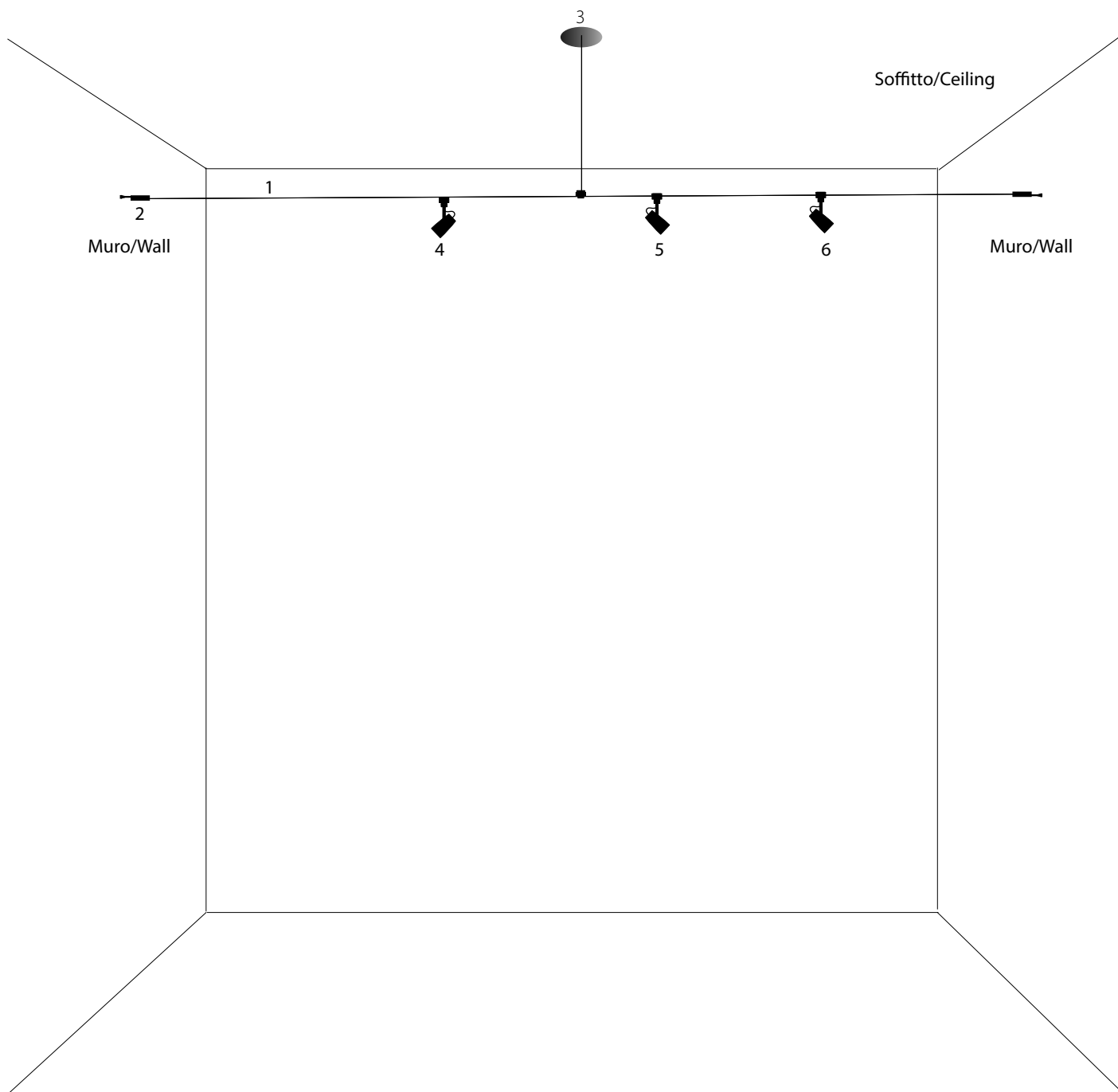
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- 2. Cod.FILS01
- 3. Cod.FILDR01
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- 5. Cod.FILC02PNES
- 6. Cod.FILC01SRAL

ESEMPI APPLICATIVI

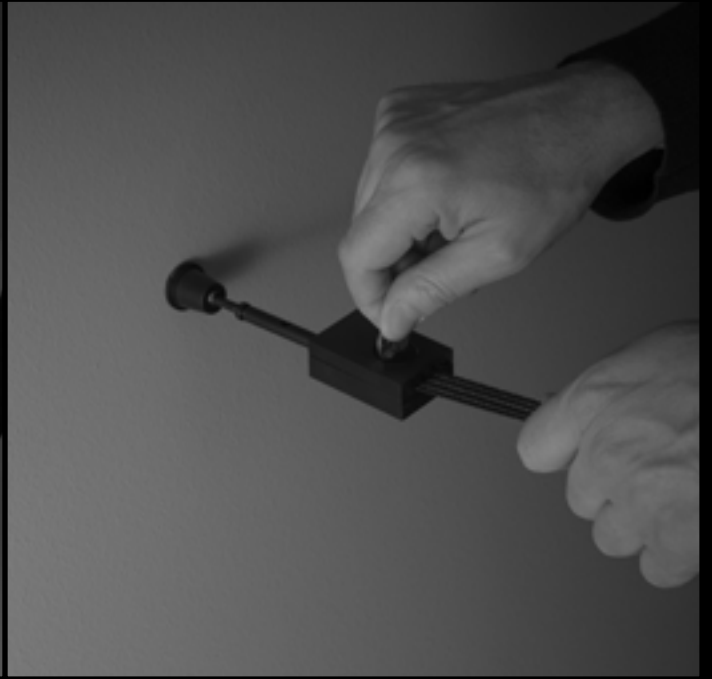
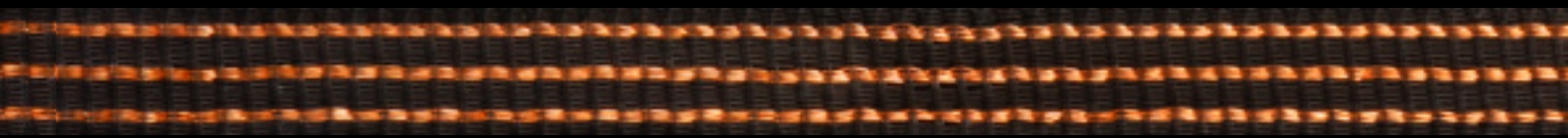
APPLICATIONS



- 1. Cod.FILN03
- 2. Cod.FILDW01
- 3. Cod.FILT01
- 4. Cod.FILK01
- 5. Cod.FILC01PRAL
- 6. Cod.FILC01PRAL
- 7. Cod.FILC01SNEL
- 8. Cod.FILC03PRAL
- 9. Cod.FILK04



- 1. Cod.FILN01
- 2. Cod.FILT01
- 3. Cod.FILK03
- 4. Cod.FILC03PRAS
- 5. Cod.FILC03PRAS
- 6. Cod.FILC03PNES



Backstage shooting Fil Rouge, 2022, May

100% MADE IN ITALY

Tutti i prodotti Antonangeli sono realizzati interamente in Italia/ All Antonangeli's products are made in Italy.

GARANZIA

Questo prodotto realizzato con materiali di qualità, viene garantito da Antonangeli, per due anni, a partire dalla data di acquisto. La garanzia dà diritto alla riparazione o sostituzione gratuita di quelle parti di prodotto sulle quali si riscontrano difetti di fabbricazione, rilevati entro il periodo coperto dalla stessa. Esulano dalla garanzia danni causati da trasporto, derivanti da manomissioni o da manutenzioni improprie. In caso di difetto, il prodotto va riconsegnato, se possibile con imballo originale al rivenditore presso cui è stato acquistato, insieme al certificato di garanzia.

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Per qualsiasi controversia sarà competente, in via esclusiva, il foro di Milano, Italia.

WARRANTY

This product is manufactured using high quality materials, and Antonangeli guarantees it for two years from date of purchase. The certificate warrants that those part of the product defective by improper workman ship will be replaced or repaired free of charge during all the period of guarantee's validity. This guarantee does not apply to shipping damage, misuse or improper maintenance. In case of defective parts the product must be handed, along with the guarantee certificate and if possible in its original package to the dealer who sold it. All Antonangeli products are covered by an insurance police.

Court of law competent to consider claims concerning this product is that of Milan, Italy.



Per realizzare le sue collezioni Antonangeli pone particolare attenzione alla ricerca dei materiali e al loro utilizzo, con un approccio alla sostenibilità orientato in primis sulla durata del prodotto e sul contenimento dello spreco delle materie prime e delle risorse del pianeta. Materiali come il RAME, l'ACCIAIO, il FERRO, l'OTTONE e le PIETRE oltre ad essere DUREVOLI nel tempo, sono anche totalmente RICICLABILI. Una particolare attenzione viene riservata al RAME: metallo naturalmente anti batterico, particolarmente amato ed usato da Antonangeli per le sue collezioni indoor e outdoor.

Antonangeli pays particular attention to the research of materials and their use to create his collections, with an approach to sustainability oriented primarily on the duration of the product and on the containment of the waste of raw materials and planet's resources. Materials such as COPPER, STEEL, IRON, BRASS and STONES as well as being DURABLE over time, are also totally RECYCLABLE. A special attention is paid to COPPER: naturally anti-bacterial metal, particularly loved and used by Antonangeli for his indoor and outdoor collections.

FIL ROUGE modello depositato/patented suspended

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Ph: Forte Studio



Chore s.r.l. Via Como 74 20030 Paderno Dugnano (MI) Italy
antonangeli.it
info@antonangeli.it Phone +39 02 91082795



SCHEDA TECNICA



Light efficiency:

71 lumen/watt

Light quality:

CRI: 95,6

Color temperature:

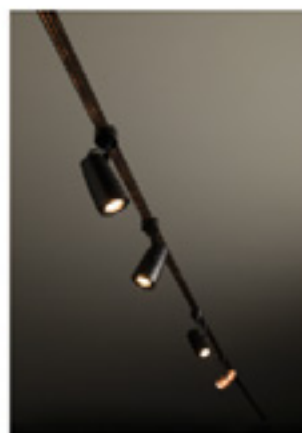
2982 K

Output: 548 lm

Peak: 381 cd

Power: 7,7 W

24,0V @ 0,320A



Product name:

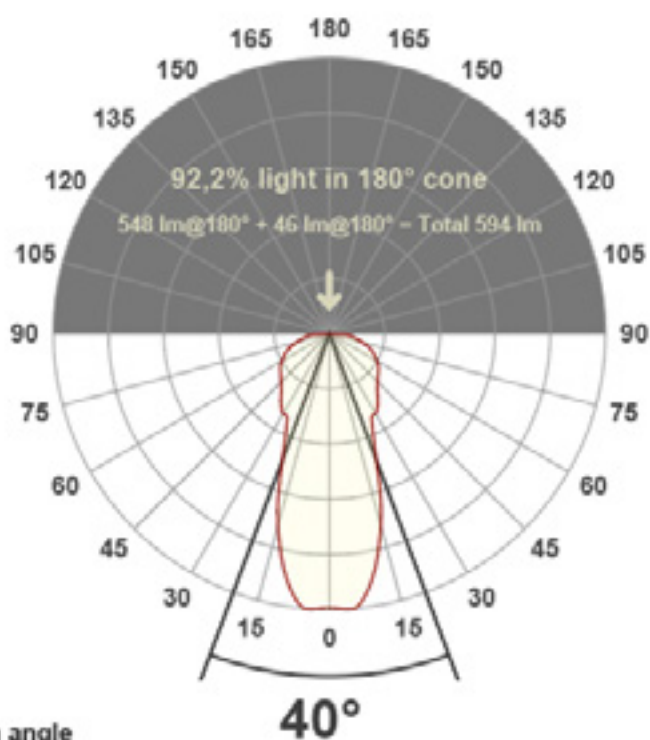
**ANTONANGELI
SPOT FIL ROUGE**

Item number:

827-1

Additional information:

**WW LED CON LENTE 40° 320
mA 548 LM**



Color

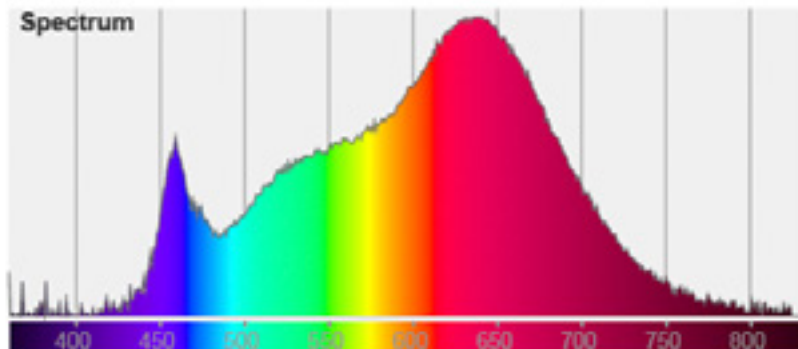


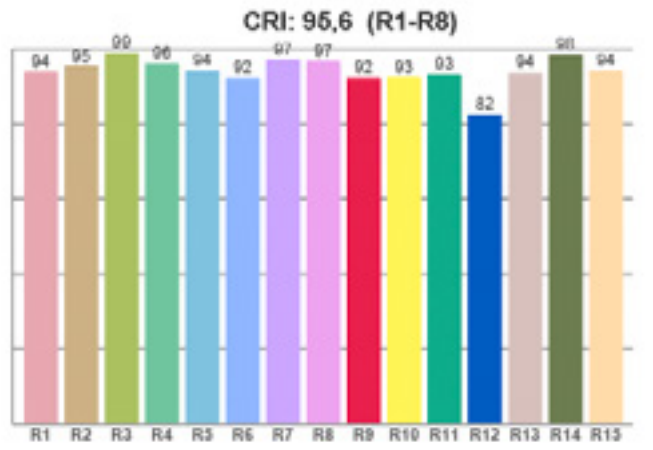
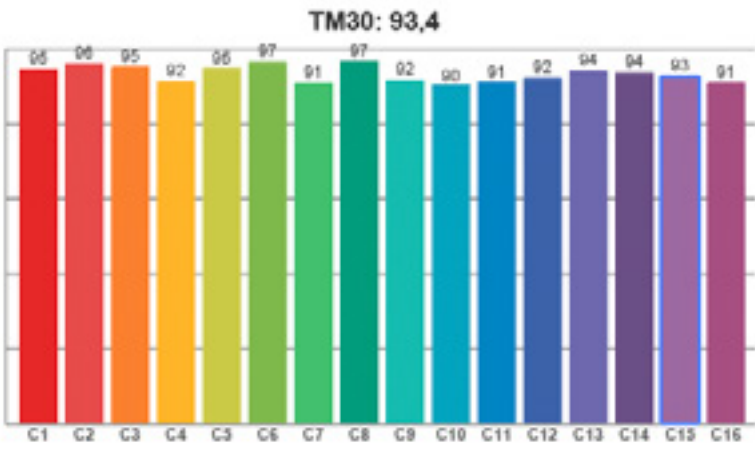
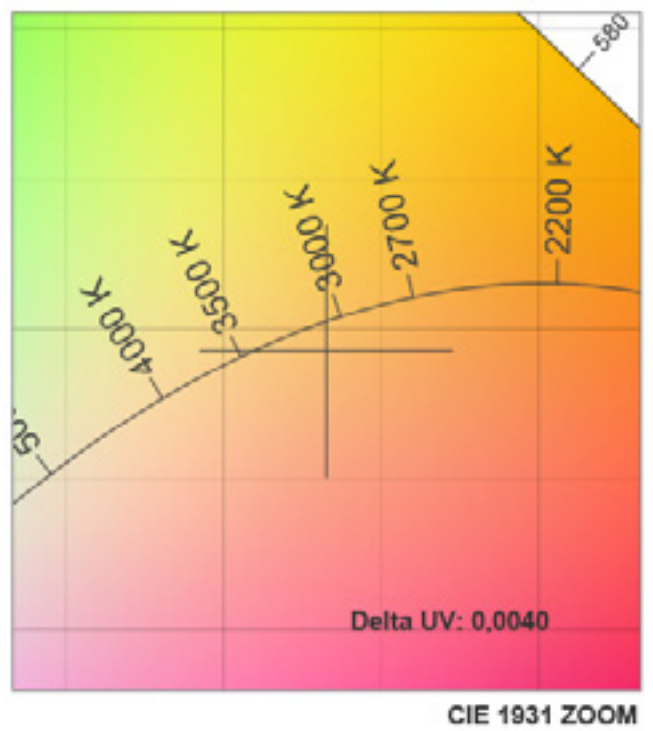
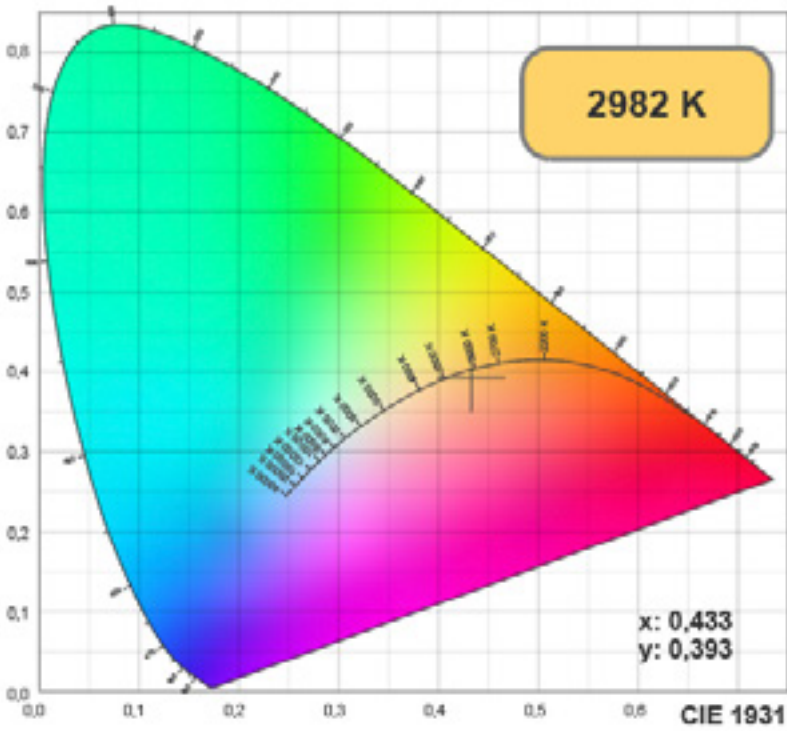
CIE1931

x: 0,433

y: 0,393

Spectrum





CRI R values, only R1-R8 are used to calculate final CRI value

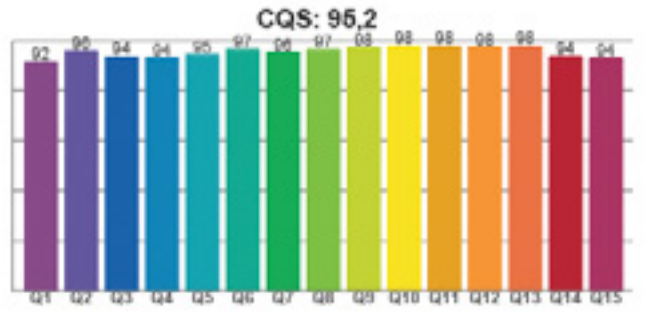
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,95	95,48	95,92	96,27	94,15	92,30	97,19	96,79	92,34	92,97	93,39	92,47	93,86	95,39	94,16

TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,73	96,20	95,36	91,50	94,89	96,56	90,97	96,75	91,83	90,29	91,20	92,33	94,28	93,73	92,95	91,16

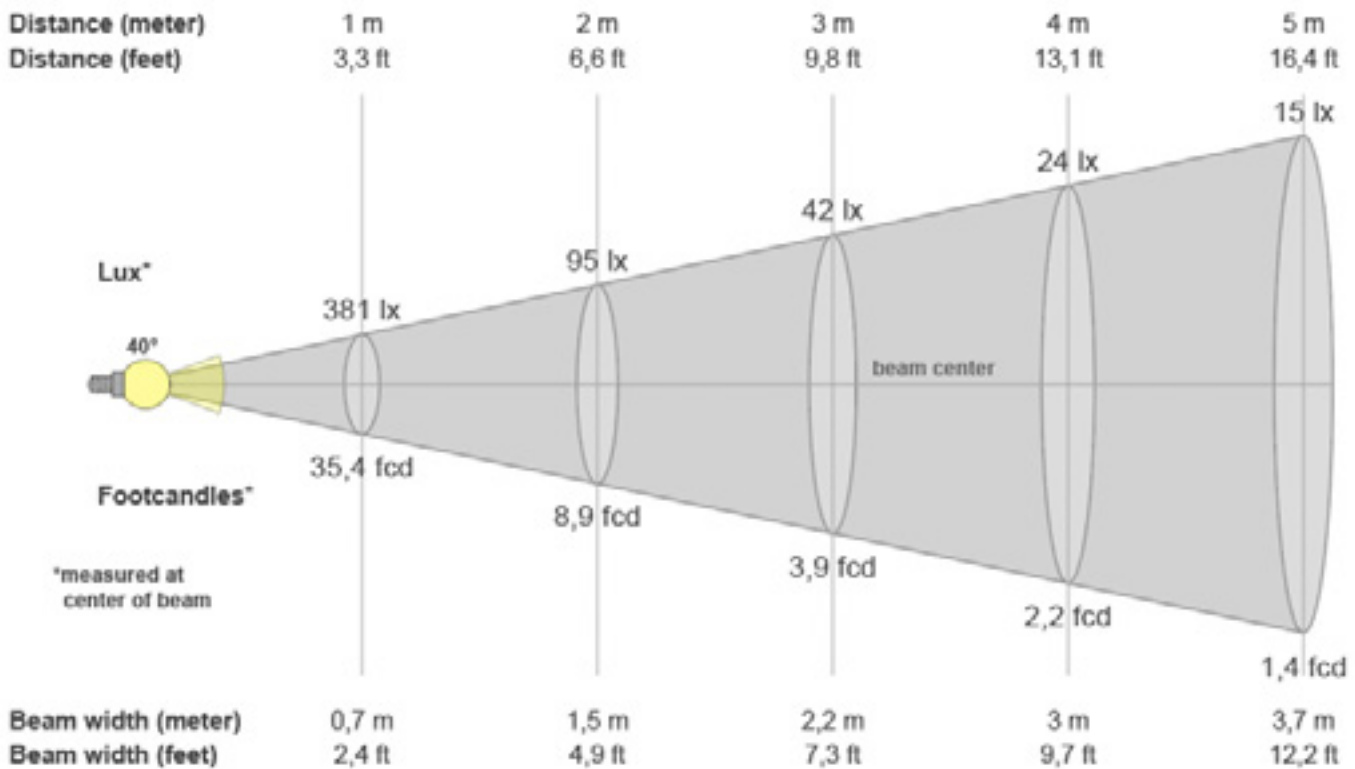
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,95	96,31	93,83	93,60	94,81	96,87	95,74	96,79	97,66	96,19	96,12	97,93	96,07	94,15	93,58



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
2982 K	95,6	92,3	93,4	101,0	95,2	0,4	0,4	0,3	0,3	-0,0040



Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
381	381	343	276	197	144	128	117	104	95	89	83	76	69	59	48	38	28	10	0
100%	100%	90%	72%	52%	38%	34%	31%	27%	25%	23%	22%	20%	18%	16%	13%	10%	7%	3%	0%

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
381	381	343	276	197	144	128	117	104	95	89	83	76	69	59	48	38	28	10	0
100%	100%	90%	72%	52%	38%	34%	31%	27%	25%	23%	22%	20%	18%	16%	13%	10%	7%	3%	0%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
381	381	343	276	197	144	128	117	104	95	89	83	76	69	59	48	38	28	10	0
100%	100%	90%	72%	52%	38%	34%	31%	27%	25%	23%	22%	20%	18%	16%	13%	10%	7%	3%	0%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
381	381	343	276	197	144	128	117	104	95	89	83	76	69	59	48	38	28	10	0
100%	100%	90%	72%	52%	38%	34%	31%	27%	25%	23%	22%	20%	18%	16%	13%	10%	7%	3%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,7°	168,5°	196,2°	67,3%	48,5%



Light efficiency:

70 lumen/watt

Light quality:

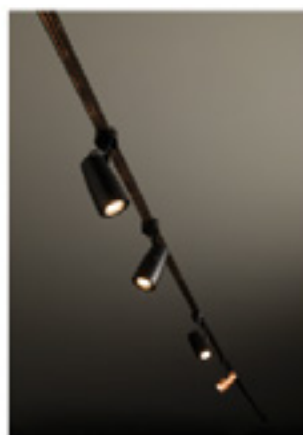
CRI: 83,0

Color temperature:

3071 K

Output: 553 lm
Peak: 2302 cd

Power: 7,9 W
24,0V @ 0,330A



Product name:

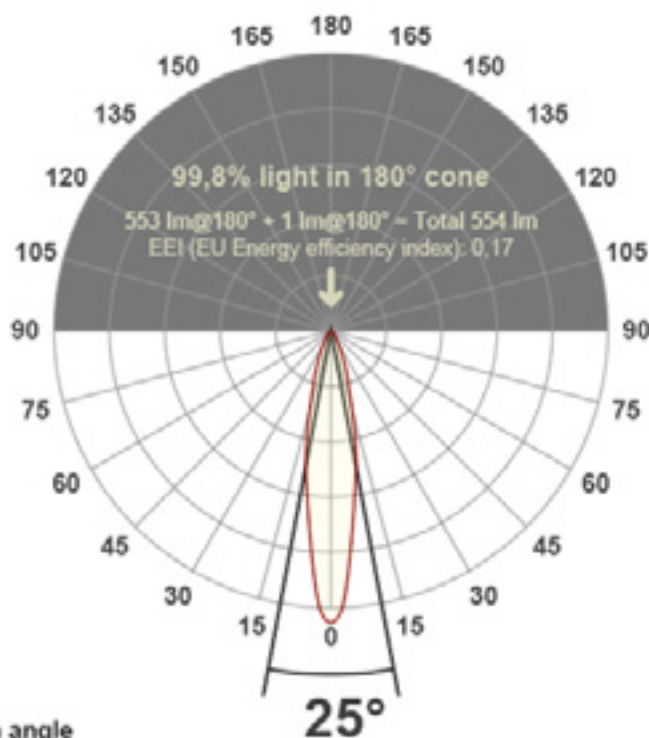
**ANTONANGELI
SPOT FIL ROUGE**

Item number:

827-1

Additional information:

**WW CON LENTE 25 GRADI
330mA CON 12 CCR DA 30 mA**

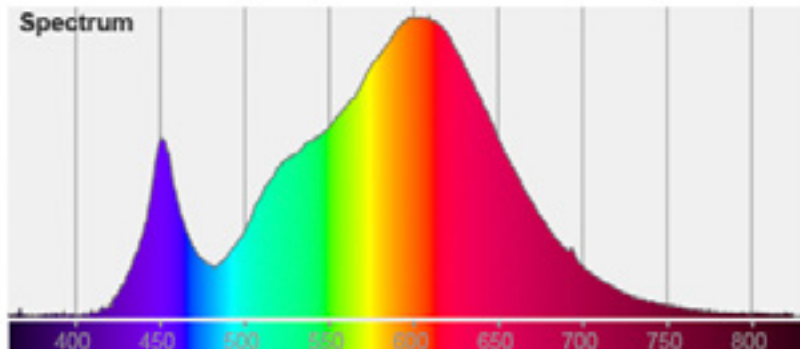


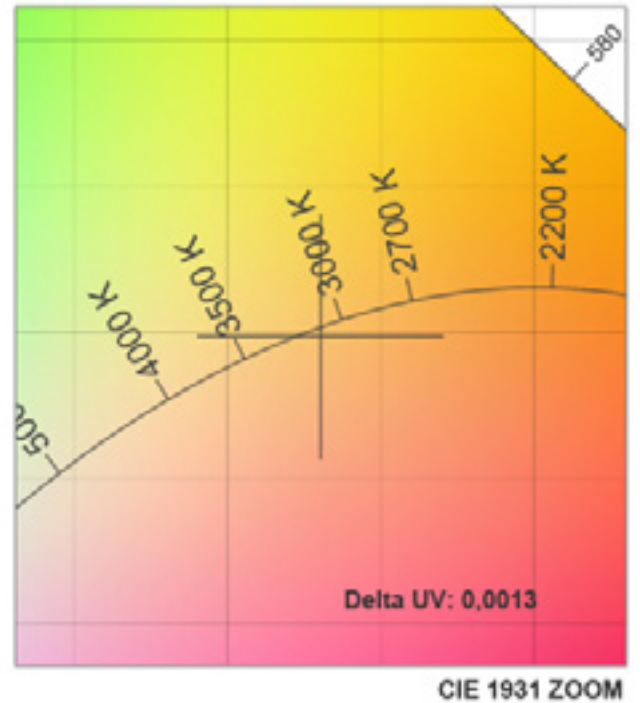
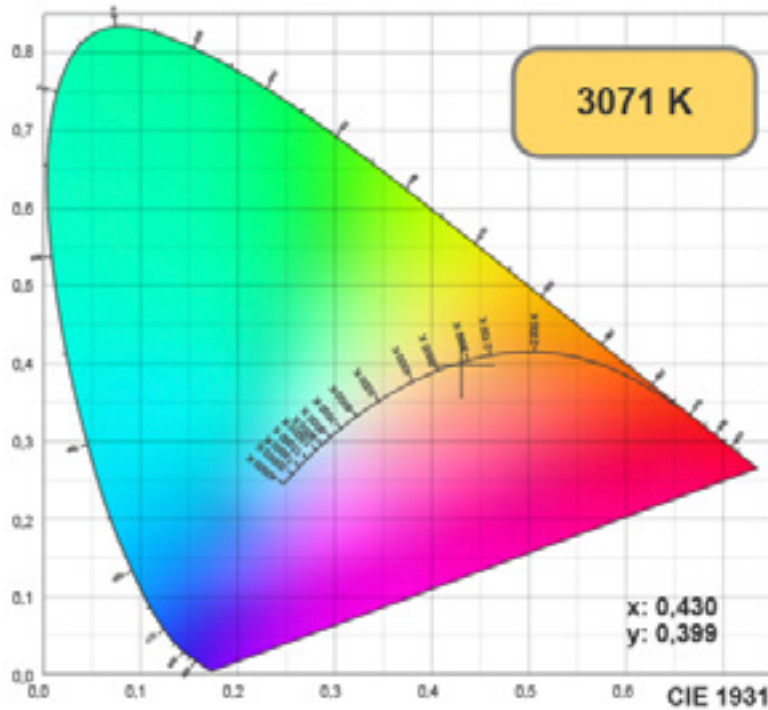
Beam angle

Color

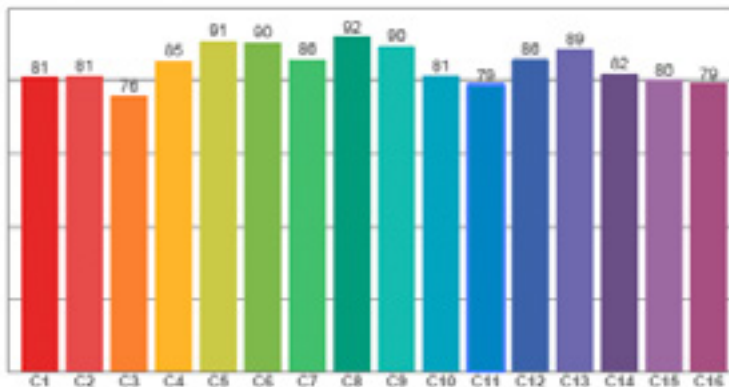
CIE1931
x: 0,430
y: 0,399

Spectrum

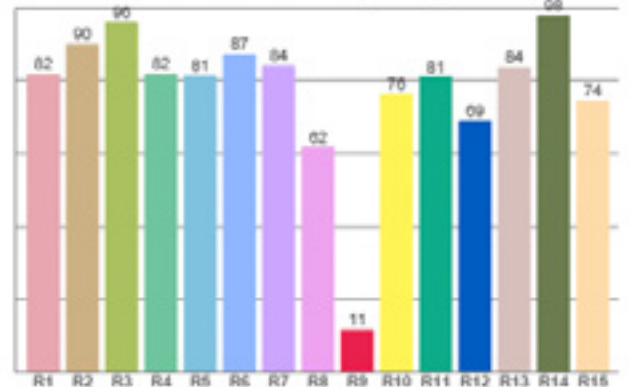




TM30: 84,1



CRI: 83,0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81,73	89,99	96,14	81,85	81,37	87,23	84,06	81,82	11,46	78,43	81,06	88,96	83,66	87,88	74,90

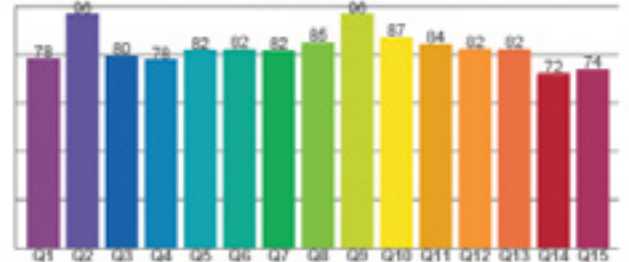
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,81	81,19	75,63	85,43	90,64	90,36	85,86	92,05	89,61	81,33	78,75	86,04	88,61	81,91	80,14	79,27

CQS Q values

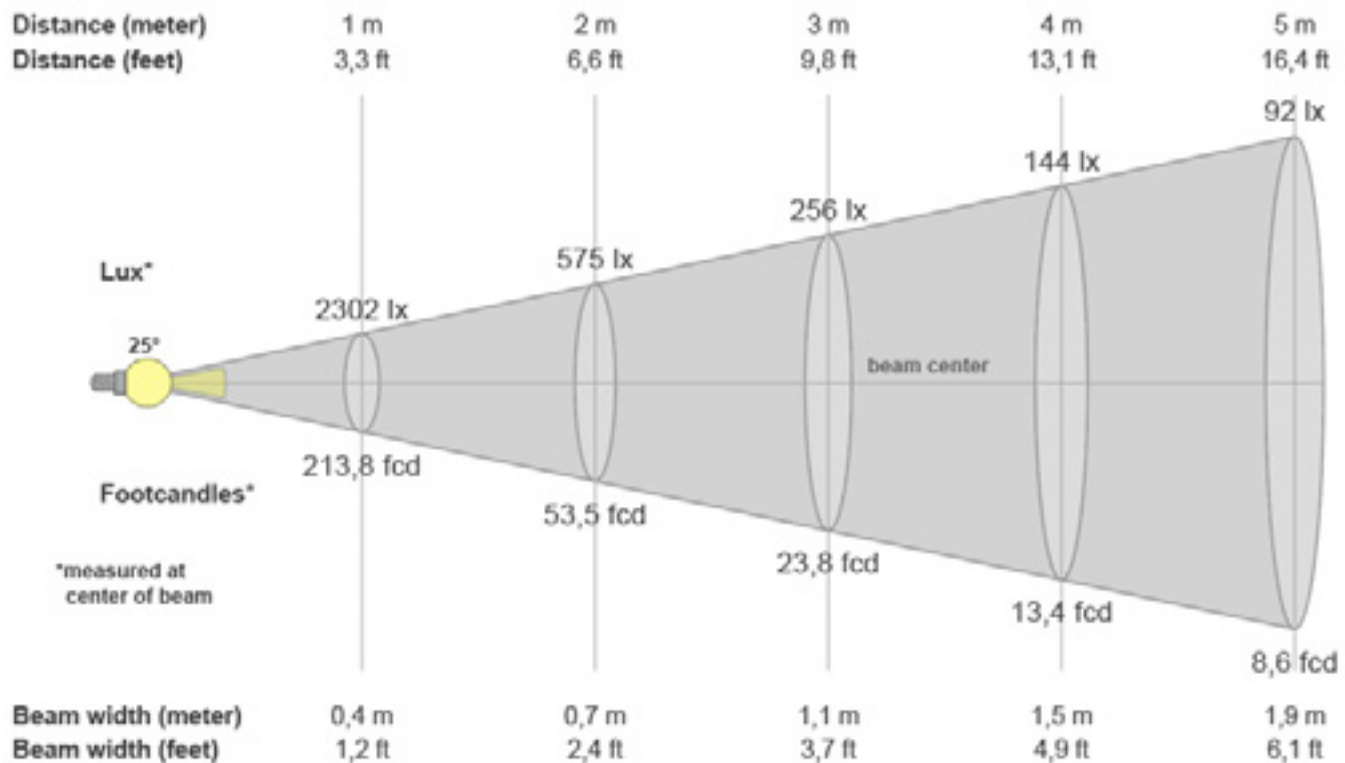
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,22	96,44	79,58	77,86	81,90	82,18	81,67	85,03	96,35	87,09	84,22	82,36	82,19	72,09	73,97

CQS: 81,4



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
3071 K	83,0	11,5	84,1	90,0	81,4	0,4	0,4	0,2	0,3	-0,0013



Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2302	2302	2082	1791	1500	1209	1014	830	645	486	409	333	256	204	172	139	107	84	72	61
100%	100%	90%	78%	65%	53%	44%	36%	28%	21%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2302	2302	2082	1791	1500	1209	1014	830	645	486	409	333	256	204	172	139	107	84	72	61
100%	100%	90%	78%	65%	53%	44%	36%	28%	21%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2302	2302	2082	1791	1500	1209	1014	830	645	486	409	333	256	204	172	139	107	84	72	61
100%	100%	90%	78%	65%	53%	44%	36%	28%	21%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2302	2302	2082	1791	1500	1209	1014	830	645	486	409	333	256	204	172	139	107	84	72	61
100%	100%	90%	78%	65%	53%	44%	36%	28%	21%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,0°	49,3°	77,0°	98,6%	95,4%