

URBAN

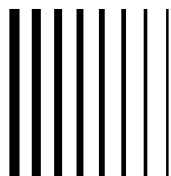


CASTALDI

URBAN



CASTALDI



AURALIS

LIMITLESS LIGHTING

The decorative yet contemporary design by Penta, the technical lighting indoor and outdoor by Castaldi, the Masters' collections by Arredoluce, come together as an example of excellence and Italian creativity, technological innovation and design approach.

Auralis, a unique group of companies, entirely dedicated to the light.

Auralis supports the attitude of man in the pursuit of beauty, without setting limits, other than imagination. This is why Auralis provides to architects and lighting designers 360-degree lighting solutions and works side by side with customers and partners with a sales and service network active in over 95 countries around the world.

Il design decorativo e contemporaneo di Penta, l'illuminazione tecnica indoor e outdoor di Castaldi e i grandi Maestri del design di Arredoluce, si fondono in un esempio di eccellenza e creatività italiana, innovazione tecnologica e approccio progettuale.

Nasce Auralis, una realtà unica interamente dedicata alla luce.

Auralis sostiene l'innata attitudine dell'uomo nel ricercare la bellezza, nel costruire meraviglie, senza porsi limiti, se non quello dell'immaginazione. Per questo affianca architetti e lighting designers attraverso soluzioni a 360 gradi per l'illuminazione e lo fa lavorando al fianco di clienti e partner con una rete vendita e assistenza attiva in oltre 95 paesi nel mondo.



PENTA



CASTALDI



ARREDOLUCE

LIGHT
IS OUR
MISSION



Energy savings and low environmental impact are essential prerequisites for both public and private constructions and lighting systems. The city of the future is built on sustainability and technology: unique, beautiful and safe places.

Environmental sustainability, high efficiency and no light pollution: today we can illuminate increasingly vast spaces, adapting the light to our customers' needs while ensuring increasingly low power consumption. LED lighting allows significant reductions in energy usage and, by exploiting the possibility of dimming the lights, cost savings of up to 70%. The absence of the mercury normally found in sodium and halogen lamps also means LED luminaires can be fully recycled.

Risparmio energetico e basso impatto ambientale sono condizioni essenziali per la costruzione e l'illuminazione, sia pubblica che privata. La città del futuro guarda alla sostenibilità e alla tecnologia: luoghi unici, belli e sicuri.

Ecosostenibilità, alta efficienza e assenza di inquinamento luminoso: oggi possiamo illuminare spazi sempre più ampi, adattando la luce alle esigenze dei nostri clienti, il tutto con consumi sempre più bassi. Il LED consente un'elevata riduzione energetica e, sfruttando la possibilità di dimmerazione, di raggiungere obiettivi di risparmio fino al 70%. L'assenza di mercurio, normalmente presente nelle lampade al sodio e agli alogenuri, pone nei LED tutti i vantaggi di un riciclo totale del corpo illuminante.

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PRODUCTS

Decorative



B-Light 2.0 single/
double p.16



B-Light 2.0 bollard
p.16



Loze p.24



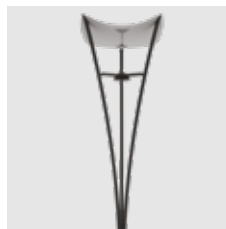
Loze bollard p.24



Loze wall mounted
p.24



Anthea p.32



Royal Light p.40



Moda p.48

Style



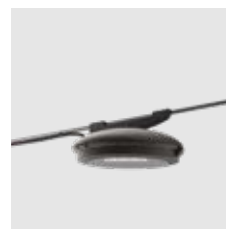
Alba side p.58



Alba bottom p.58



Alba crook p.58



Alba pendant p.58



Hat p.74



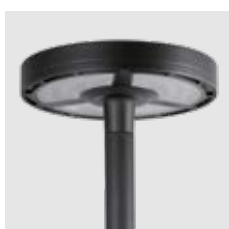
Antica p.82



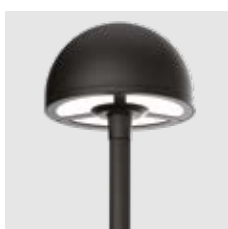
Romantic p.92



Tau 2 p.102

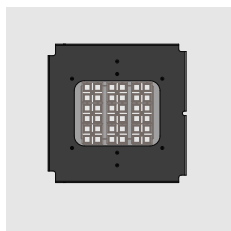


Tau 3 p.102

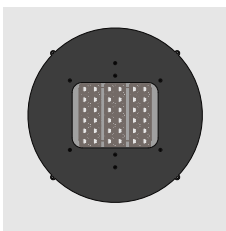


Venezia City p.110

LED conversion modules



Nucleo p.120



Nucleo p.120

Street



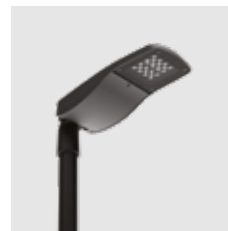
Tear Light p.130



Tear XL p.140



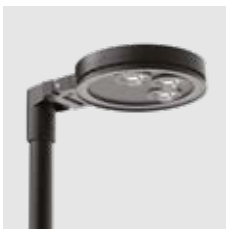
Clic Light M p.152



Clic Light S p.160



Wing Evo p.168



Boxer Round p.180



Boxer Street p.188

Photovoltaic



Tear Light FV p.198



Tear Light FV p.198



Wing Evo FV p.208

COLOURS



RAL 9010
White
Bianco



COLOUR
Corten



RAL 9006
Grey
Grigio



RAL 9007
Grey Aluminium
Grigio Alluminio



COLOUR
Mica Grey
Grigio Micaceo



RAL 9005
Black
Nero



COLOUR
Aluminium grey *



COLOUR
Graphite satin finish **

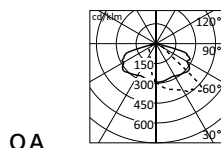
*Similar to RAL 7040

**Similar to RAL 7022

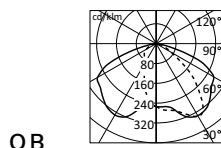
The standard colours in the catalogue apply to poles, outreach arms and decorative lamps. The lamps can be painted in one of the standard catalogue colours at a surcharge.

I colori standard presenti nel catalogo possono essere applicati a pali, sbracci e lampade decorative. Le lampade possono essere verniciate in uno dei colori standard a catalogo con sovrapprezzo.

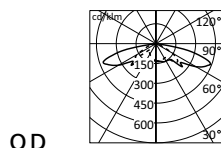
OPTICS



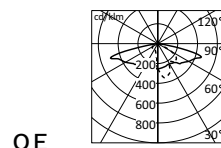
OA
Standard optic for poles taller than 6 metres. Roads, bicycle paths, pavements.



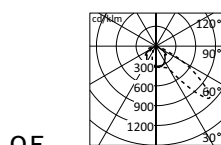
OB
Standard optic for poles shorter than 6 metres. Roads, bicycle paths, pavements.



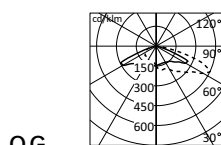
OD
Optic for high centre-to-centre distances and large spaces, particularly suited to poles shorter than 5 metres.



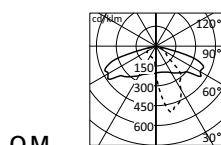
OE
Optic for high centre-to-centre distances with medium front emission. Roads, bicycle paths, pavements.



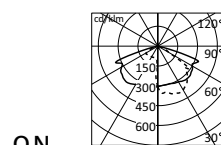
OF
Optic for pedestrian crossings, with central installation. Large depth-wise spaces.



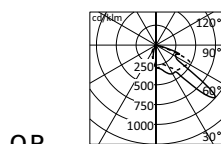
OG
Optic for large spaces, particularly in the front.



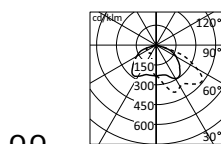
OM
Optic with narrow light emission. Roads, bicycle paths, pavements.



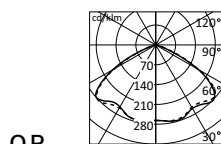
ON
Optic for rear lamp position. Roads, bicycle paths, pavements.



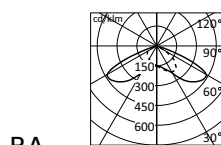
OP
Optic for pedestrian crossings, with side installation.



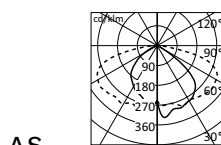
OQ
Optic for reduced centre-to-centre distances and large depth-wise spaces.



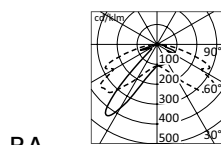
OR
Standard roto-symmetrical optic.



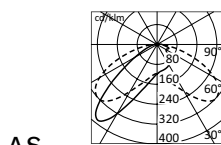
RA
Road emission Boxer Round and Boxer Street.



AS
Asymmetric Boxer Round and Boxer Street.



RA
Road emission Tema Landscape and Tema city.



AS
Asymmetric Tema Landscape and Tema city.

Depending on the specific project, the product can be personalised from a photometric perspective, by creating customised emissions and combining different optics for optimal results.

In base allo specifico progetto, è possibile personalizzare il prodotto dal punto di vista fotometrico, creando emissioni customizzate, combinando tra loro le ottiche, così da ottenere i risultati ottimali.

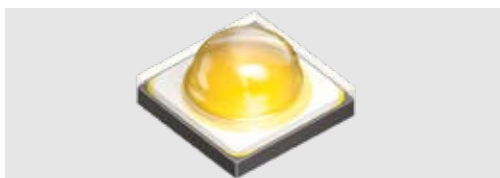
MORE FEATURES

48 h test / Test 48 h

Each lamp is assembled and tested individually to define the lumen output, power and colour temperature parameters. During the testing phase, each device remains in function for 48 hours by alternating on and off cycles, so as to eliminate possible premature malfunctions.

Ogni lampada è assemblata e testata individualmente, per garantire i parametri di lumen output, potenza, temperatura di colore. Durante la fase di test, ogni apparecchio rimane in funzione 48 ore alternando accensioni e spegnimenti, al fine di eliminare i possibili malfunzionamenti prematuri.

LED technical properties / Caratteristiche tecniche del LED



Ceramic case

The LED used on our products possesses the following characteristics: single-chip high-power LED with ceramic case and new-generation primary optic, with binning within the 3 MacAdam steps, selected LED voltage (VF) and economical life cycle: 100,000 h @ L90 @ Ta = 25°C, ensuring performance over time.

Special solutions have been implemented on each lamp, between the LED board and the body, to optimise the heat exchange. These measures increase the electrical stiffness and help to enhance the product's reliability over time.



Plastic case

Il LED utilizzato nei nostri prodotti ha le seguenti caratteristiche: LED Single Chip High Power con Case Ceramico e ottica primaria di ultima generazione, con binning entro i 3 step Mc Adam, con una tensione del LED (VF) selezionata, ed una vita economica: 100.000 h @ L90 @ Ta = 25°, per garantire nel tempo le prestazioni.

In ogni lampada, tra la scheda LED e la scocca, vengono adottate soluzioni per ottimizzare lo scambio termico, aumentando la rigidità elettrica e contribuendo ad aumentare l'affidabilità del prodotto nel tempo.

Versions / Varianti

The LED board for all Urban products is made in Italy and uses a UL-certified metal core support capable of withstanding temperatures of up to 110°C, with SURGE protection of over 6 kV. The board is equipped with transient voltage suppressors that protect it further in case of discharge.

In addition, an NTC temperature sensor controls the temperature, preventing damages in maximum-temperature situations due to environmental or circuit-related problems.

All these solutions guarantee long-lasting product life.

La scheda LED per tutti i prodotti Urban è realizzata in Italia e utilizza un supporto metal core Certificato UL , che resiste a temperature fino 110° C, con protezione ai SURGE oltre ai 6 KV. La scheda è dotata di soppressori di transienti che, in caso di scarica, la proteggono ulteriormente.

In aggiunta è presente anche un sensore di temperatura NTC che ne controlla la temperatura evitando danni in situazioni di temperatura massima a causa di problematiche ambientali o circuitali.

Tutto questo garantisce una lunga durata del prodotto.

Dimming profile / Profilo di dimmerazione

The standard dimming profile (STANDARD AUTO-DIM) has the following characteristics:

From switch-on to 22:00 - 100% operation

From 22:00 to 01:00 - 70% operation (30% reduction)

From 01:00 to 05:00 - 50% operation (50% reduction)

From 05:00 to switch-off - 100% operation

Il profilo di dimmerazione standard (AUTO-DIM STANDARD) ha le seguenti caratteristiche:

Da accensione fino alle 22,00 - Funzionamento al 100%

Dalle 22,00 alle 01,00 - Funzionamento al 70% (Riduzione del 30%)

Dalle 01,00 alle 05,00 - Funzionamento al 50% (Riduzione del 50%)

Dalle 05,00 fino a spegnimento - Funzionamento al 100%

DECORATIVE

- 16 — B-Light 2.0
- 24 — Loze
- 32 — Anthea
- 40 — Royal Light
- 48 — Moda

B-LIGHT 2.0

B-Light 2.0 is a direct-illumination device consisting of a pole with rectangular cross-section on which one or two LED-based light fittings are mounted. The light fitting is 560 mm long, 200 mm wide and 100 mm high, and weighs 115 kg (B-Light 2.0 single) or 122 kg (B-Light 2.0 double). It is available in the B-Light 2.0 Single or B-Light 2.0 Double version, with 16-LED (35 W), 24-LED (53 W) and 32-LED (70 W) light fittings, and in the B-Light 2.0 Bollard marking bollard version with 8 LEDs (18 W).

These products are suitable for urban decorative and street lighting purposes.

B-Light 2.0 è un apparecchio per illuminazione diretta formato da un palo a sezione rettangolare dove vengono inseriti uno o due corpi illuminanti con luce a LED.

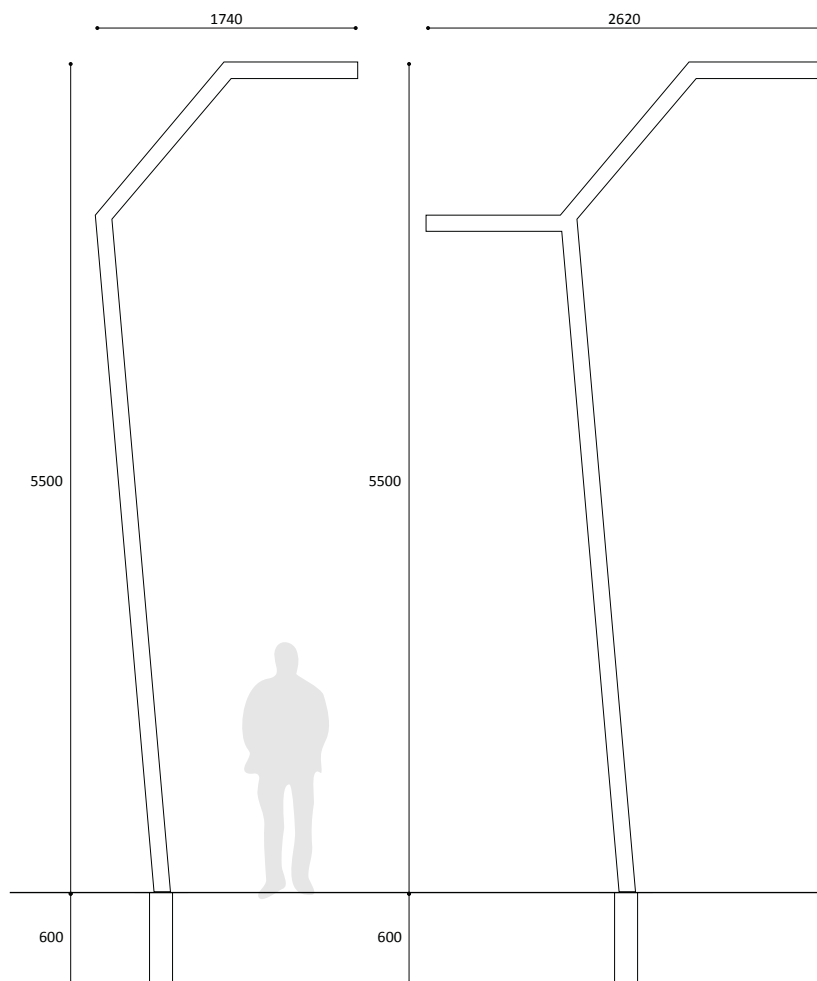
Il corpo illuminante misura 560 mm di lunghezza, 200 mm di larghezza e 100 mm di altezza per un peso totale di 115 kg (B-Light 2.0 singolo) o 122 kg (B-Light 2.0 doppio).

Disponibile nelle versioni B-Light 2.0 Singolo o B-Light 2.0 Doppio, con corpi illuminanti da 16 LED (35W), 24 LED (53W) e 32 LED (70W) e nella versione paletto dissuasore, B-Light 2.0 Dissuasore, a 8 LED (18W).

Prodotti adatti per l'illuminazione d'arredo urbano e stradale.

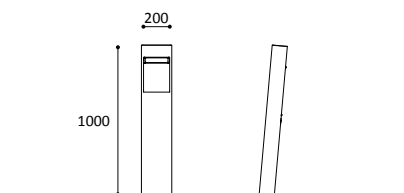




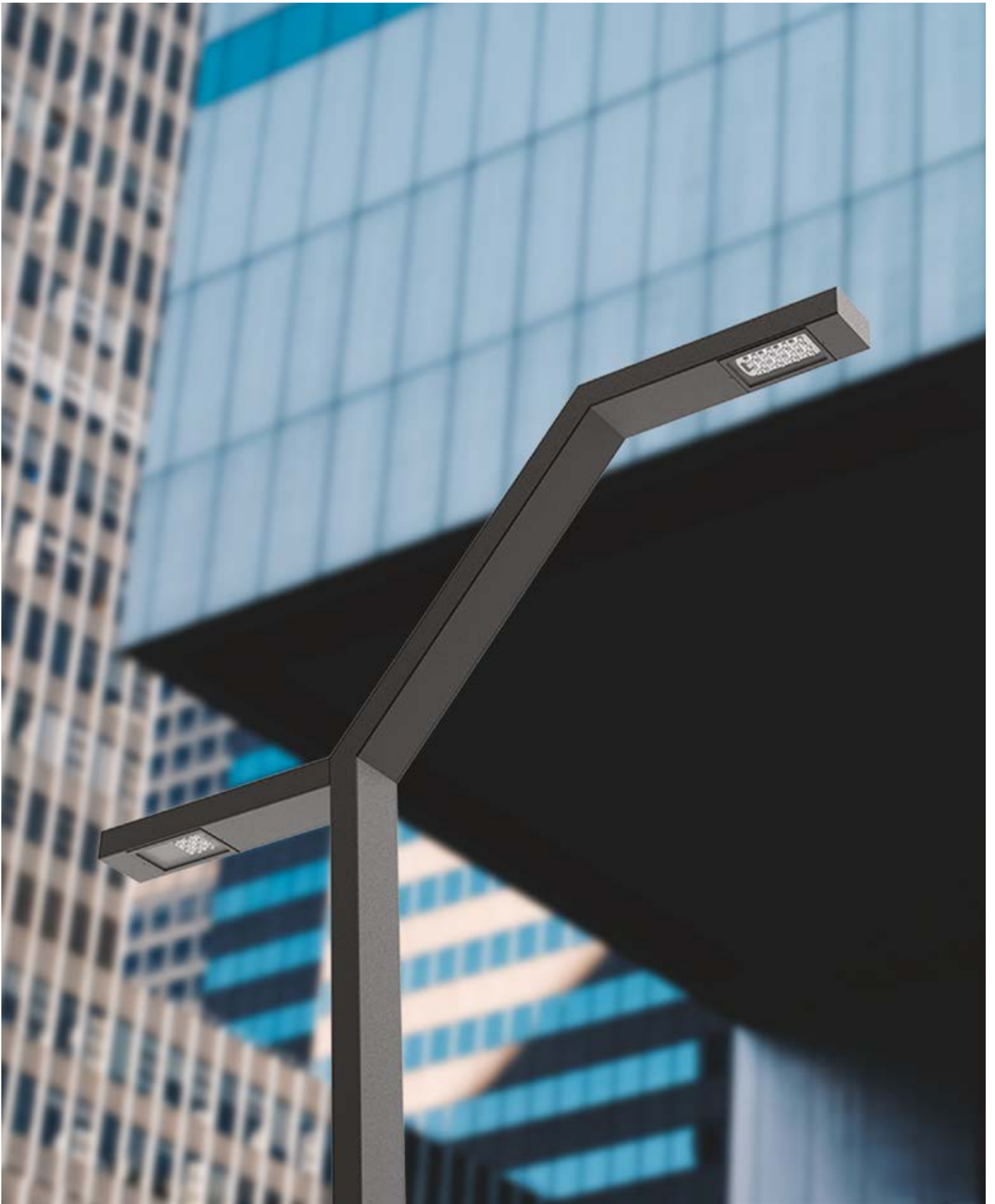


B-Light 2.0 single

B-Light 2.0 double



B-Light 2.0 bollard



B-LIGHT 2.0

Versions / Varianti

B-Light 2.0 Single - single lamp post
B-Light 2.0 Double - double lamp post
B-Light 2.0 Bollard - marking bollard

Lampione singolo B-Light 2.0 Singolo
Lampione doppio B-Light 2.0 Doppio
Paletto dissuasore B-Light 2.0 Dissuasore

Physical features / Caratteristiche fisiche

Light fitting dimensions: 560 mm (L) x 200 mm (W) x 100 mm (H).
Weight: 115 kg B-Light 2.0 Single; 122 kg B-Light 2.0 Double; 23 kg B-Light 2.0 Bollard.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.
Optic: high-efficiency PMMA lenses.

Dimensioni corpo illuminante: 560 mm (L) x 200 mm (W) x 100 mm (H)
Peso: 115 kg B-Light 2.0 singolo; 122 kg B-Light 2.0 doppio; 23 kg B-Light 2.0 dissuasore.
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.
Optica: lenti in PMMA ad alta efficienza.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=85°C
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%. A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%. Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step
On request 2700K

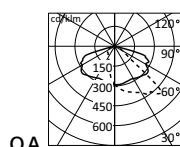
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3
A richiesta 2700K

Dimming options / Opzioni di dimmerazione

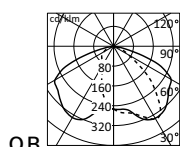
STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.
MAINS DIM DALI: dimming through voltage regulators (180 VAC-230 Vac).

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza
MAINS DIM DALI: dimmerazione tramite regolatori di Fase (180Vac-230Vac).

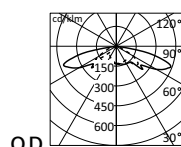
Optics / Ottiche



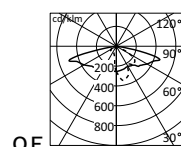
OA



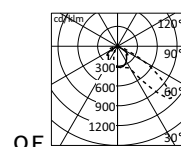
OB



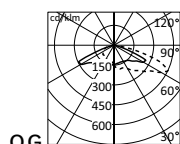
OD



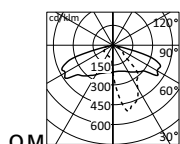
OE



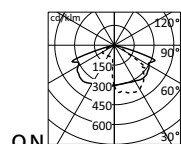
OF



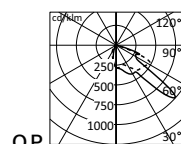
OG



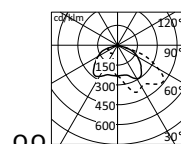
OM



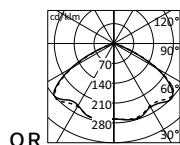
ON



OP



OQ



OR

Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK08

OPTICS	8 LED - 18 W				16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	2.735 lm	2.190 lm	152 lm/W	A5+ 1,69	5.475 lm	4.380 lm	156 lm/W	A6+ 1,71	8.290 lm	6.635 lm	156 lm/W	A6+ 1,71	10.950 lm	8.760 lm	156 lm/W	A5+ 1,67
OD	2.735 lm	1.945 lm	152 lm/W	A3+ 1,48	5.475 lm	3.885 lm	156 lm/W	A4+ 1,52	8.290 lm	5.845 lm	156 lm/W	A4+ 1,51	10.950 lm	7.775 lm	156 lm/W	A3+ 1,48
OE	2.735 lm	2.030 lm	152 lm/W	A4+ 1,54	5.475 lm	4.095 lm	156 lm/W	A5+ 1,60	8.290 lm	6.220 lm	156 lm/W	A5+ 1,61	10.950 lm	8.190 lm	156 lm/W	A4+ 1,56
OF	2.735 lm	2.245 lm	152 lm/W	A6+ 1,71	5.475 lm	4.485 lm	156 lm/W	A6+ 1,76	8.290 lm	6.800 lm	156 lm/W	A6+ 1,76	10.950 lm	8.970 lm	156 lm/W	A6+ 1,71
OG	2.735 lm	2.000 lm	152 lm/W	A4+ 1,52	5.475 lm	3.995 lm	156 lm/W	A4+ 1,56	8.290 lm	6.060 lm	156 lm/W	A4+ 1,57	10.950 lm	7.995 lm	156 lm/W	A4+ 1,52

3000K CRI 70 - 700mA - IP66 - IK08

OPTICS	8 LED - 18 W				16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	2.340 lm	1.875 lm	130 lm/W	A3+ 1,43	4.685 lm	3.750 lm	134 lm/W	A3+ 1,47	7.085 lm	5.670 lm	134 lm/W	A3+ 1,47	9.375 lm	7.500 lm	134 lm/W	A3+ 1,43
OD	2.340 lm	1.665 lm	130 lm/W	A+ 1,27	4.685 lm	3.330 lm	134 lm/W	A++ 1,30	7.085 lm	5.035 lm	134 lm/W	A++ 1,30	9.375 lm	6.665 lm	134 lm/W	A+ 1,27
OE	2.340 lm	1.740 lm	130 lm/W	A++ 1,32	4.685 lm	3.480 lm	134 lm/W	A++ 1,36	7.085 lm	5.270 lm	134 lm/W	A++ 1,36	9.375 lm	6.975 lm	134 lm/W	A++ 1,33
OF	2.340 lm	1.920 lm	130 lm/W	A3+ 1,46	4.685 lm	3.840 lm	134 lm/W	A4+ 1,50	7.085 lm	5.810 lm	134 lm/W	A4+ 1,50	9.375 lm	7.675 lm	134 lm/W	A3+ 1,46
OG	2.340 lm	1.710 lm	130 lm/W	A++ 1,30	4.685 lm	3.425 lm	134 lm/W	A++ 1,34	7.085 lm	5.180 lm	134 lm/W	A++ 1,34	9.375 lm	6.840 lm	134 lm/W	A++ 1,30

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting". Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.

Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

B-LIGHT 2.0

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9Q00D08AXR18Q**

9Q00	D	08	A	X	R	18	Q
MODEL*	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9Q00 = Pole - single	D = 4000K - 70	08 = 8	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	18 = 18 W (8L 700 mA)	Q = Standard
9Q40 = Pole concreted - single	B = 3000K - 70	16 = 16	B = OB		S = Class I / Not dimming / SPD	35 = 35 W (16L 700 mA)	R = Custom
9Q60 = Bollard		24 = 24	D = OD		O = Class II / Dimming / Varistore	53 = 53 W (24L 700 mA)	
		32 = 32	E = OE		M = Class II / Dimming / Varistore + Esdbox	70 = 70 W (32L 700 mA)	
			F = OF		K = Class II / Dimming / SPD		
			G = OG		I = Class II / Dimming / SPD + Esdbox		
			M = OM		N = Class II / Not dimming / Varistore + Esdbox		
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

*The version with double lamp pole is managed as a non-standard code

LOZE

Loze is a direct illumination device consisting of a pole with rectangular cross-section on which a LED-based light fitting is mounted.

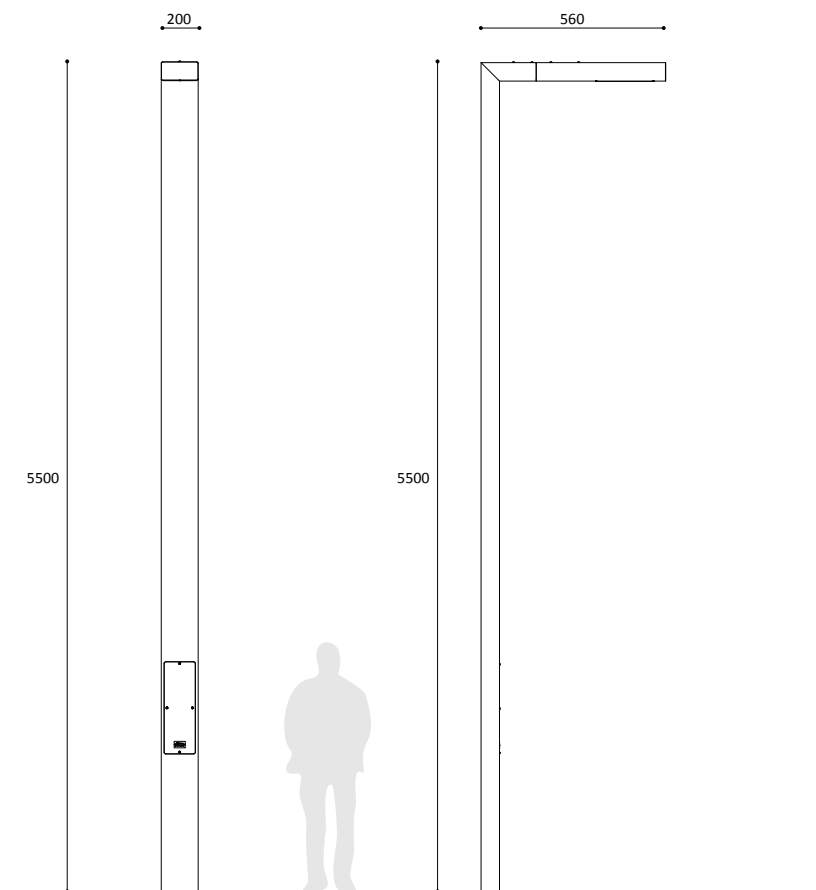
The light fitting is 560 mm long, 200 mm wide and 100 mm high, for a total weight of 115 kg. The product is available in the lamp-post version (Loze Single) or wall-mounted lamp version (Loze Wall), with 16-LED (35 W), 24-LED (53 W) and 32-LED (70 W) light fittings, and in the Loze Bollard marking bollard version with 8 LEDs (18 W).

These products are suitable for urban decorative and street lighting purposes.

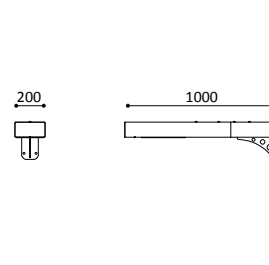
Loze è un apparecchio per illuminazione diretta formato da un palo a sezione rettangolare dove viene inserito un corpo illuminante con luce a LED. Il corpo illuminante misura 560 mm di lunghezza, 200 mm di larghezza e 100 mm di altezza, per un peso totale 115 kg. Il prodotto è disponibile nella versione lampione, Loze Singolo, o lampada a parete, Loze Parete, con corpi illuminanti da 16 LED (35W), 24 LED (53W) e 32 LED (70W) e nella versione paletto dissuasore, Loze Dissuasore, a 8 LED (18W). Prodotti adatti per l'illuminazione d'arredo urbano e stradale.



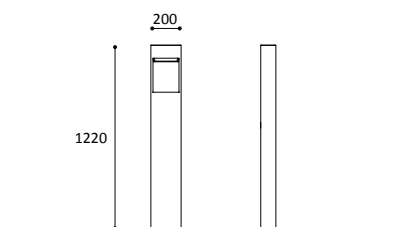




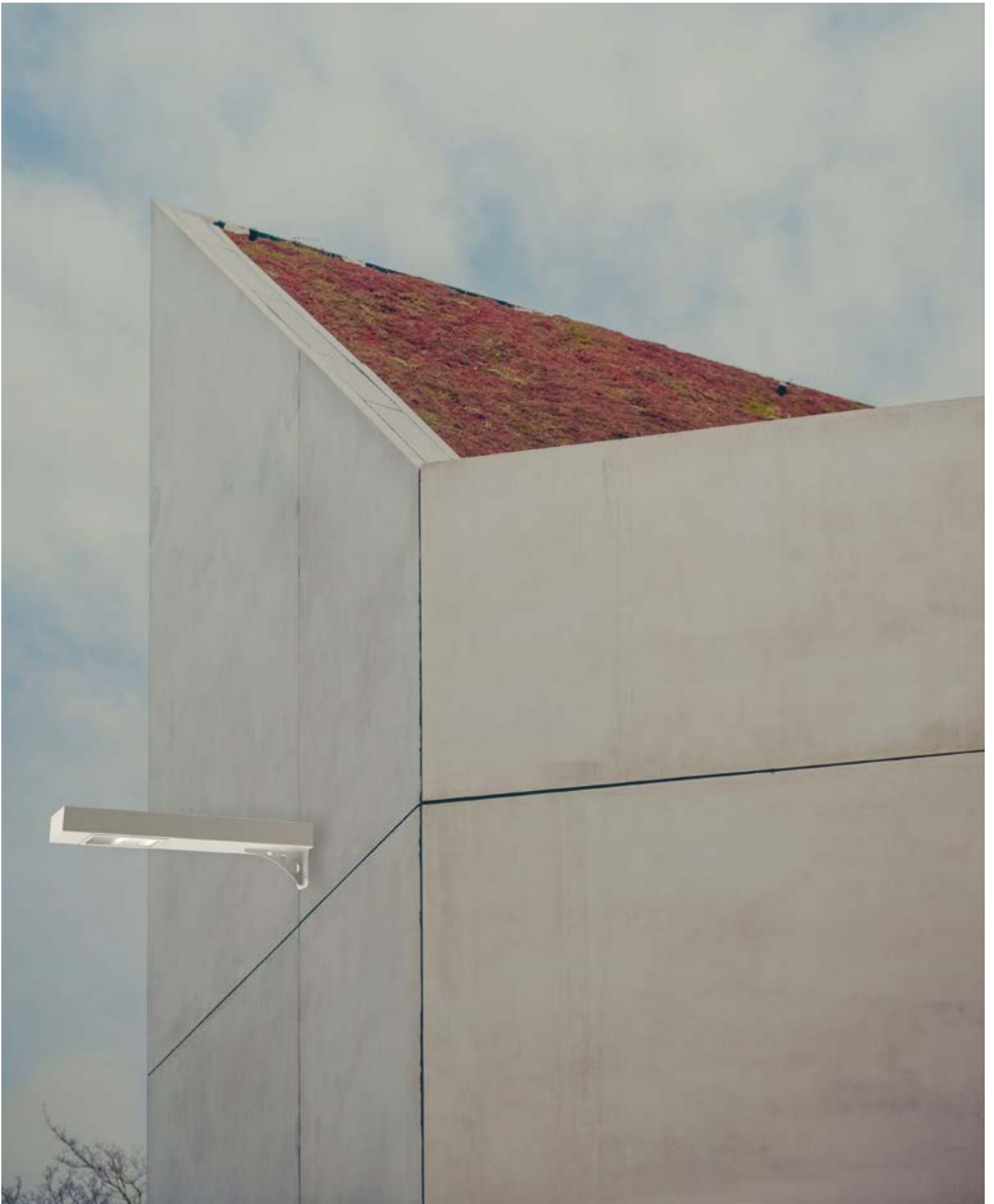
Loze



Loze wall mounted



Loze bollard



Versions / Varianti

Loze Single lamp post
Loze Wall - wall-mounted lamp
Loze Bollard - marking bollard

Lampione Loze Singolo
Lampada a parete Loze Parete
Paletto dissuasore Loze Dissuasore

Physical features / Caratteristiche fisiche

Light fitting dimensions: 560 mm (L) x 200 mm (W) x 100 mm (H).
Weight: 115 kg Loze Single; 24 kg Loze Wall; 25 kg Loze Bollard.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.
Optic: high-efficiency PMMA lenses.

Dimensioni corpo illuminante: 560 mm (L) x 200 mm (W) x 100 mm (H)
Peso: 115 kg Loze Singolo; 24 kg Loze Parete; 25 kg Loze Dissuasore
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.
Ottica: lenti in PMMA ad alta efficienza.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 60.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F 10 apparecchio , L90 B20 LED @ TJ=85°
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 60.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

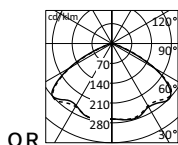
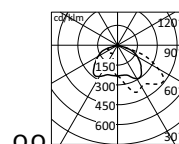
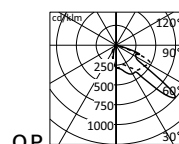
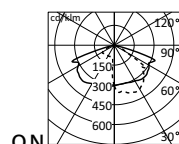
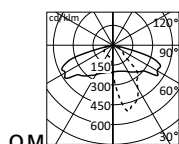
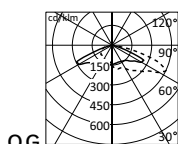
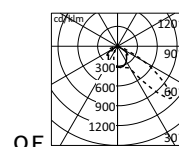
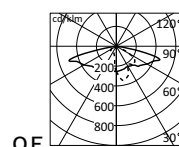
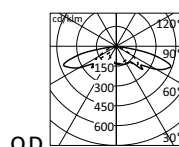
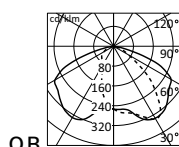
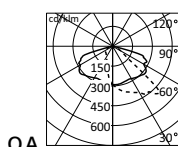
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza.

Optics / Ottiche



Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK08

OPTICS	8 LED - 18 W				16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	2.735 lm	2.190 lm	152 lm/W	A5+ 1,69	5.475 lm	4.380 lm	156 lm/W	A6+ 1,71	8.290 lm	6.635 lm	156 lm/W	A6+ 1,71	10.950 lm	8.760 lm	156 lm/W	A5+ 1,67
OD	2.735 lm	1.945 lm	152 lm/W	A3+ 1,48	5.475 lm	3.885 lm	156 lm/W	A4+ 1,52	8.290 lm	5.845 lm	156 lm/W	A4+ 1,51	10.950 lm	7.775 lm	156 lm/W	A3+ 1,48
OE	2.735 lm	2.030 lm	152 lm/W	A4+ 1,54	5.475 lm	4.095 lm	156 lm/W	A5+ 1,60	8.290 lm	6.220 lm	156 lm/W	A5+ 1,61	10.950 lm	8.190 lm	156 lm/W	A4+ 1,56
OF	2.735 lm	2.245 lm	152 lm/W	A6+ 1,71	5.475 lm	4.485 lm	156 lm/W	A6+ 1,76	8.290 lm	6.800 lm	156 lm/W	A6+ 1,76	10.950 lm	8.970 lm	156 lm/W	A6+ 1,71
OG	2.735 lm	2.000 lm	152 lm/W	A4+ 1,52	5.475 lm	3.995 lm	156 lm/W	A4+ 1,56	8.290 lm	6.060 lm	156 lm/W	A4+ 1,57	10.950 lm	7.995 lm	156 lm/W	A4+ 1,52

3000K CRI 70 - 700mA - IP66 - IK08

OPTICS	8 LED - 18 W				16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	2.340 lm	1.875 lm	130 lm/W	A3+ 1,43	4.685 lm	3.750 lm	134 lm/W	A3+ 1,47	7.085 lm	5.670 lm	134 lm/W	A3+ 1,47	9.375 lm	7.500 lm	134 lm/W	A3+ 1,43
OD	2.340 lm	1.665 lm	130 lm/W	A+ 1,27	4.685 lm	3.330 lm	134 lm/W	A++ 1,30	7.085 lm	5.035 lm	134 lm/W	A++ 1,30	9.375 lm	6.665 lm	134 lm/W	A+ 1,27
OE	2.340 lm	1.740 lm	130 lm/W	A++ 1,32	4.685 lm	3.480 lm	134 lm/W	A++ 1,36	7.085 lm	5.270 lm	134 lm/W	A++ 1,36	9.375 lm	6.975 lm	134 lm/W	A++ 1,33
OF	2.340 lm	1.920 lm	130 lm/W	A3+ 1,46	4.685 lm	3.840 lm	134 lm/W	A4+ 1,50	7.085 lm	5.810 lm	134 lm/W	A4+ 1,50	9.375 lm	7.675 lm	134 lm/W	A3+ 1,46
OG	2.340 lm	1.710 lm	130 lm/W	A++ 1,30	4.685 lm	3.425 lm	134 lm/W	A++ 1,34	7.085 lm	5.180 lm	134 lm/W	A++ 1,34	9.375 lm	6.840 lm	134 lm/W	A++ 1,30

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.

Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: EN60598-1, EN60598-2-3, EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62031, EN62493.
Certifications: CE, RoHS.

Normative: EN60598-1, EN60598-2-3, EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62031, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9R00D08AXR18Q**

9R00	D	08	A	X	R	18	Q
MODEL*	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9R00 = Pole - single	D = 4000K - 70	08 = 8	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	18 = 18 W (8L 700 mA)	Q = Standard
9R40 = Wall mounted	B = 3000K - 70	16 = 16	B = OB		S = Class I / Not dimming / SPD	35 = 35 W (16L 700 mA)	R = Custom
9R60 = Bollard		24 = 24	D = OD		O = Class II / Dimming / Varistore	53 = 53 W (24L 700 mA)	
		32 = 32	E = OE		M = Class II / Dimming / Varistore + Esdbox	70 = 70 W (32L 700 mA)	
			F = OF		K = Class II / Dimming / SPD		
			G = OG		I = Class II / Dimming / SPD + Esdbox		
			M = OM		N = Class II / Not dimming / Varistore + Esdbox		
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

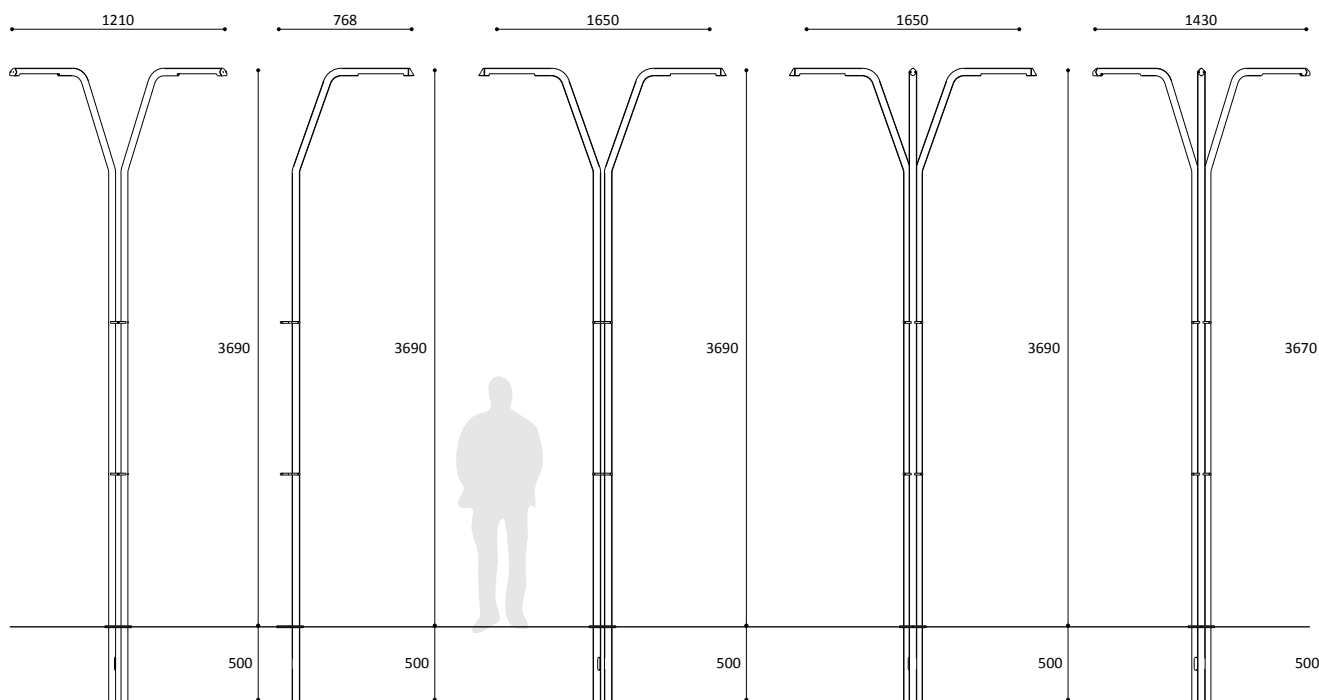
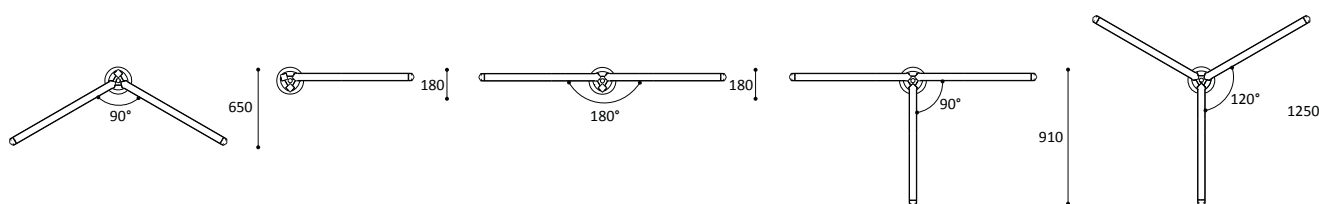
ANTHEA

Anthea is a direct-illumination device consisting of one, two or three poles with 90°, 120° or 180° angle, bent and shaped for inserting LED modules.
Each pole weighs 34 kg.
This product is suitable for urban decorative and street lighting purposes.

Anthea è un apparecchio di illuminazione diretta formato da uno, due o tre pali con angolo a 90° o 120° o 180°, piegati e sagomati per l'inserimento dei Moduli LED.
Il peso di ciascun palo è di 34 kg.
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Anthea 2 — 90°

Anthea 1 — 90°

Anthea 2 — 180°

Anthea 3 — 90°

Anthea 3 — 120°



Decorative — Anthea

ANTHEA

Versions / Varianti

Lamp-post version consisting of:

- 1 single pole: Anthea 1 model
- 2 poles with 90° angle: Anthea 2-90° model
- 2 poles with 180° angle: Anthea 2-180° model
- 3 poles with 90° angle: Anthea 3-90° model
- 3 poles with 120° angle: Anthea 3-120° model

Versione lampione costituita da:

- 1 palo singolo: modello Anthea 1
- 2 pali con angolo di 90°: modello Anthea 2-90°
- 2 pali con angolo di 180°: modello Anthea 2-180°
- 3 pali con angolo di 90°: modello Anthea 3-90°
- 3 pali con angolo di 120°: modello Anthea 3-120°

Physical features / Caratteristiche fisiche

Light fitting dimensions: 300 mm (L) x 28.3 mm (W) x 100 mm (H).
Weight: 34 kg (for each pole).
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.
Optic: high-efficiency PMMA lenses.

Dimensioni corpo illuminante: 300 mm (L) x 28,3 mm (W) x 100 mm (H)
Peso: 34 kg (per ciascun palo)
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.
Ottica: lenti in PMMA ad alta efficienza.

Electrical features / Caratteristiche elettriche

Economic life: 60.000 h @ L70 B50 fitting, L70 B30 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 50.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 VAC/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 60.000 h @ L70 b 50 apparecchio, L70 B30 LED @ TJ=85°
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 50.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

Control gear with protection of up to 8-10 kV, located remotely within an IP68 sealed box, including the PFC function with a power factor of 97%.
There is an additional safety measure consisting of a device (SPD) that guarantees a level of protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore con protezione fino a 8-10 kV, posto in remoto all'interno di una scatola stagna IP68, dotato di funzione PFC con un power factor del 97%.
Come sicurezza aggiuntiva è previsto un dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Dimming options / Opzioni di dimmerazione

The device cannot be dimmed.

L'apparecchio non è dimmerabile.

Sources / Sorgenti

3000K LED - CRI 80
4000K LED - CRI 80
MacAdam: 3-step

LED 3000K - CRI 80
LED 4000K - CRI 80
MacAdam: Step 3

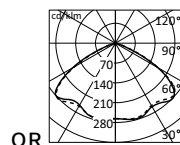
The light fitting is made up of:

- 1 LED profile, with 10 W total consumption for models Anthea 1;
- 2 LED profiles, with 20 W total consumption for models Anthea 2-90° and Anthea 2-180°;
- 3 LED profiles, with 30 W total consumption for models Anthea 3-90° and Anthea 3-120°.

Il corpo illuminante è costituito da:

- 1 profilo LED, consumo totale 10 W per i modelli Anthea 1;
- 2 profili LED, consumo totale 20 W per i modelli Anthea 2-90° e Anthea 2-180°;
- 3 profili LED, consumo totale 30 W per i modelli Anthea 3-90° e Anthea 3-120°.

Optics / Ottiche



OR

Performance / Prestazioni

OPTICS	4000K CRI 80 - IP65 - IK08											
	ANTHEA 1 - 10 W				ANTHEA 2 90° / ANTHEA 2 180° - 20 W				ANTHEA 3 90° / ANTHEA 3 120° - 30 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OR	1.765 lm	1.050 lm	176 lm/W	A++ 1,40	3.530 lm	2.100 lm	176 lm/W	A++ 1,40	5.295 lm	3.150 lm	176 lm/W	A++ 1,40

OPTICS	3000K CRI 80 - IP65 - IK08											
	ANTHEA 1 - 10 W				ANTHEA 2 90° / ANTHEA 2 180° - 20 W				ANTHEA 3 90° / ANTHEA 3 120° - 30 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OR	1.670 lm	995 lm	167 lm/W	A++ 1,33	3.340 lm	1.990 lm	167 lm/W	A++ 1,33	5.010 lm	2.985 lm	167 lm/W	A++ 1,33

*Parameterised efficiency index (IPEA) determined for field of application defined as "green areas lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.

Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

ANTHEA

More features / Caratteristiche aggiuntive

The modules ensure high performance and are suitably oriented for obtaining 140° emission angles.
The front panel of the LED is made of self-extinguishing polycarbonate and the body is made of anodised aluminium, for optimal heat dissipation.

I moduli sono dotati di alte prestazioni e sono opportunamente orientati per ottenere angoli di emissione di 140°.
Lo schermo anteriore del LED è in polycarbonato autoestinguente ed il corpo è in alluminio anodizzato, al fine di ottenere una dissipazione ottimale.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the “Exempt Group” category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria “Exempt Group” (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

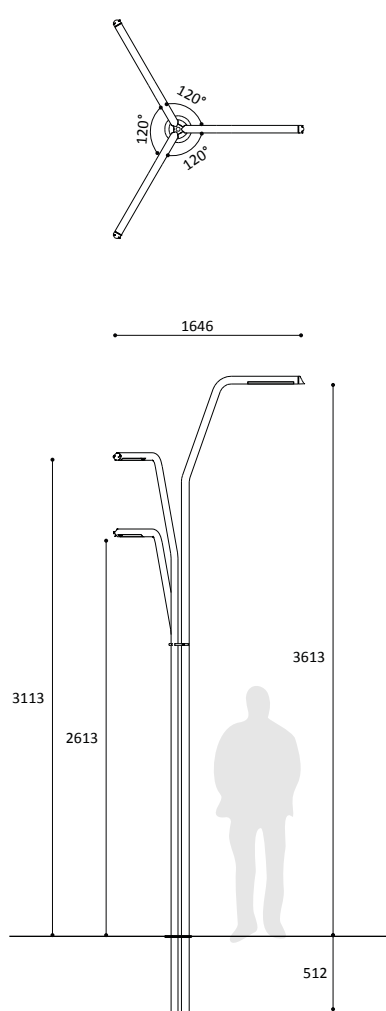
Anthea is managed as a non-standard code.
Visit the website for further information.

Il prodotto Anthea viene gestito come codice fuori standard.
Per maggiori informazioni visitare il sito.

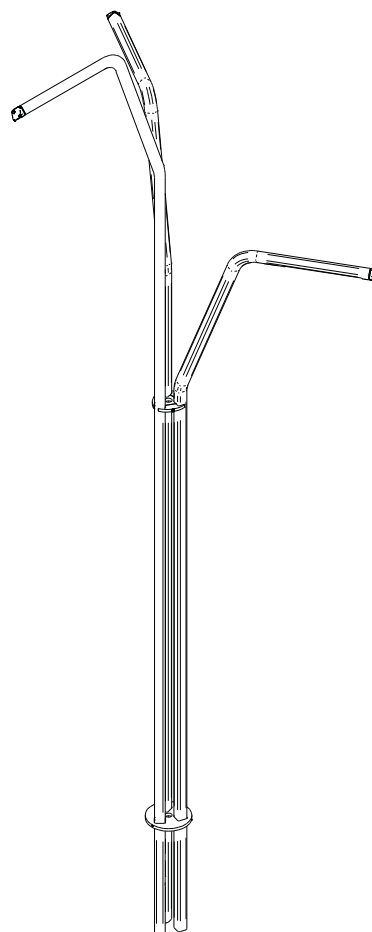
Anthea tree

Anthea Three is a tree-shaped lighting device consisting of three poles of different height, bent and shaped for inserting LED modules. The product weighs 75 kg. This product is suitable for urban decorative and street lighting purposes.

Anthea Three è un apparecchio di illuminazione a forma di albero, formato tre pali di altezze differenti, piegati e sagomati per l'inserimento dei Moduli LED. Il peso del prodotto è di 75 kg. Prodotto adatto per l'illuminazione d'arredo urbano e stradale.



Anthea tree



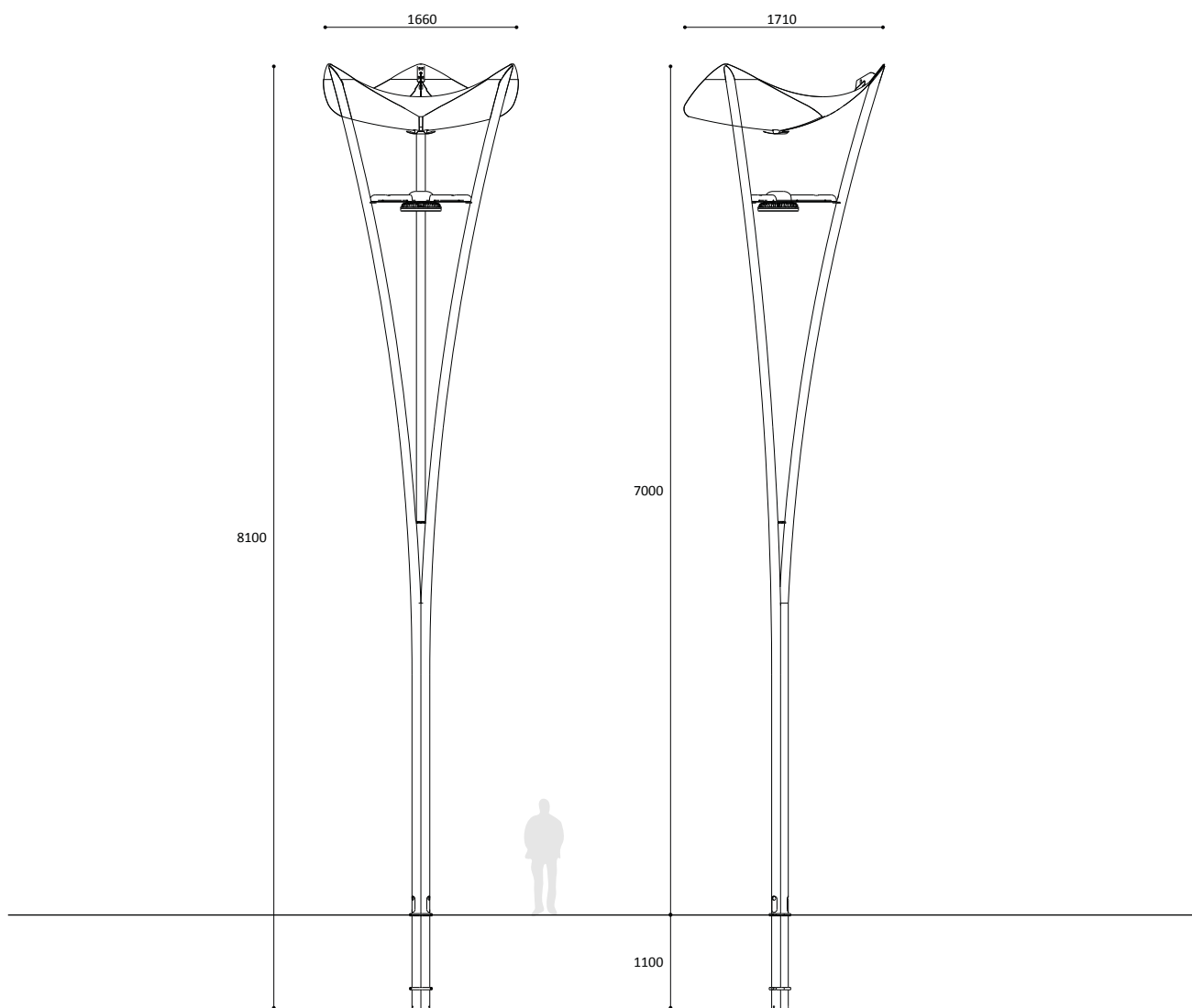
ROYAL LIGHT

Royal Light is a device for direct and indirect illumination consisting of a metal load-bearing structure with three poles each 7 metres long measuring 76 mm in diameter, straight up to a height of roughly 2,5 metres and then calendered. The device is topped by a decorative veil illuminated with reflected light and direct light. This product is suitable for urban decorative and street lighting purposes.

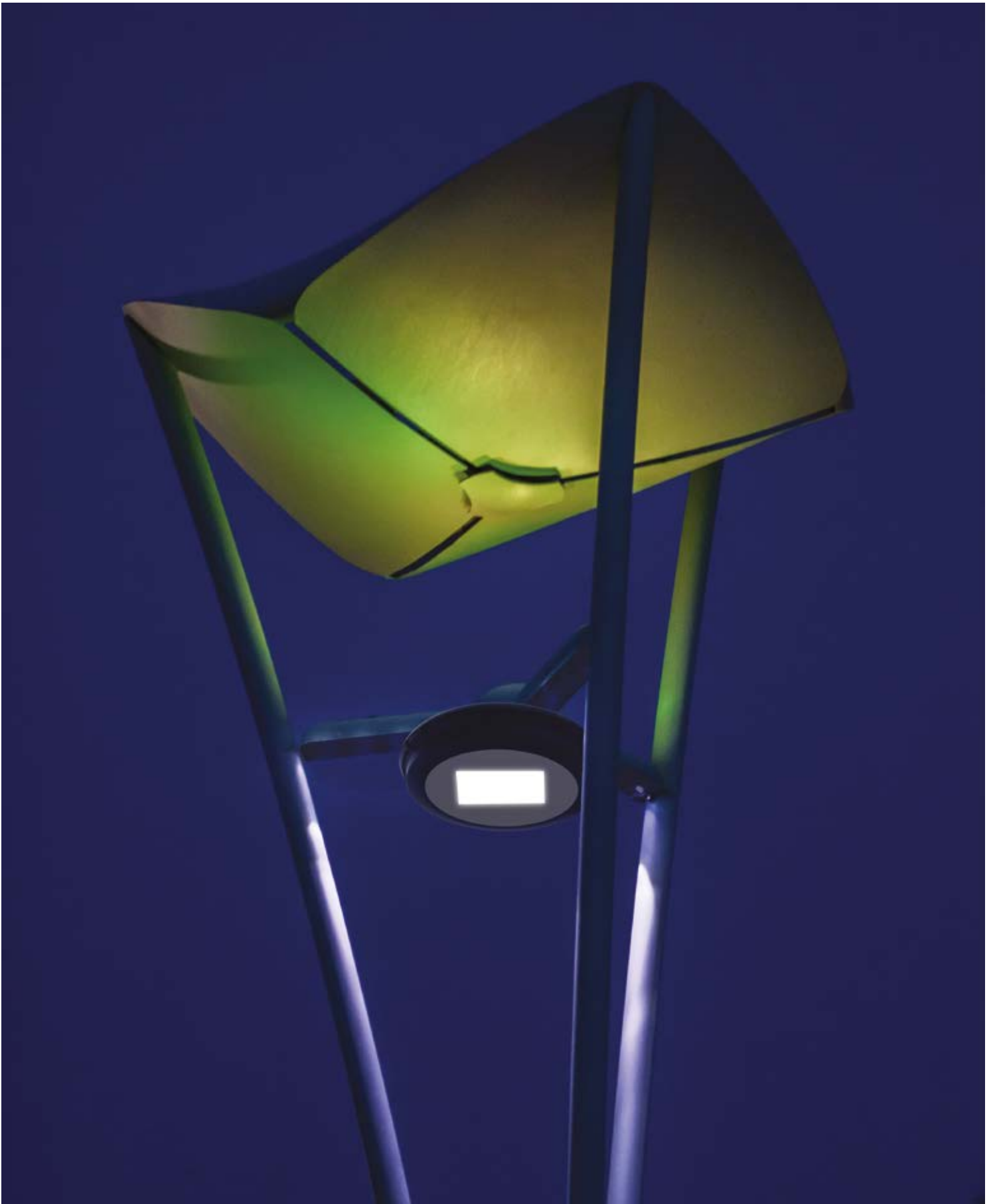
Royal Light è un apparecchio per illuminazione diretta e indiretta formato da una struttura metallica portante composta da tre pali di diametro 76 mm lunghi 7 m, dritti per un'altezza di circa 2,5 m e poi calandrati, alla cui sommità è posta una vela decorativa illuminata a luce riflessa e a luce diretta. Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Royal Light



ROYAL LIGHT

Versions / Varianti

Royal Light lamp post

Lampione Royal Light

Physical features / Caratteristiche fisiche

Light fitting dimensions: Ø 530 mm (L, W) x 200 mm (H).

Weight: 400 kg.

Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Optic: high-efficiency PMMA lenses.

Dimensioni corpo illuminante: Ø 530 mm (L, W) x 200 mm (H)

Peso: 400 kg

Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Optica: lenti in PMMA ad alta efficienza.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.

Driver: full-load efficiency > 90% - power factor > 0.97 -

life span > 85.000 h - temperature stabilisation: NTC sensor.

Mains voltage: 230 Vac/50 Hz.

Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=85°C.

Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 -

durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.

Tensione di rete: 230 Vac/50 Hz

Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.

A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.

Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70

4000K LED - CRI 70

MacAdam: 3-step

LED 3000K - CRI 70

LED 4000K - CRI 70

MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.

CUSTOM AUTO-DIM: personalised automatic dimming.

PLM: powerline modem.

RF: radio frequency remote control.

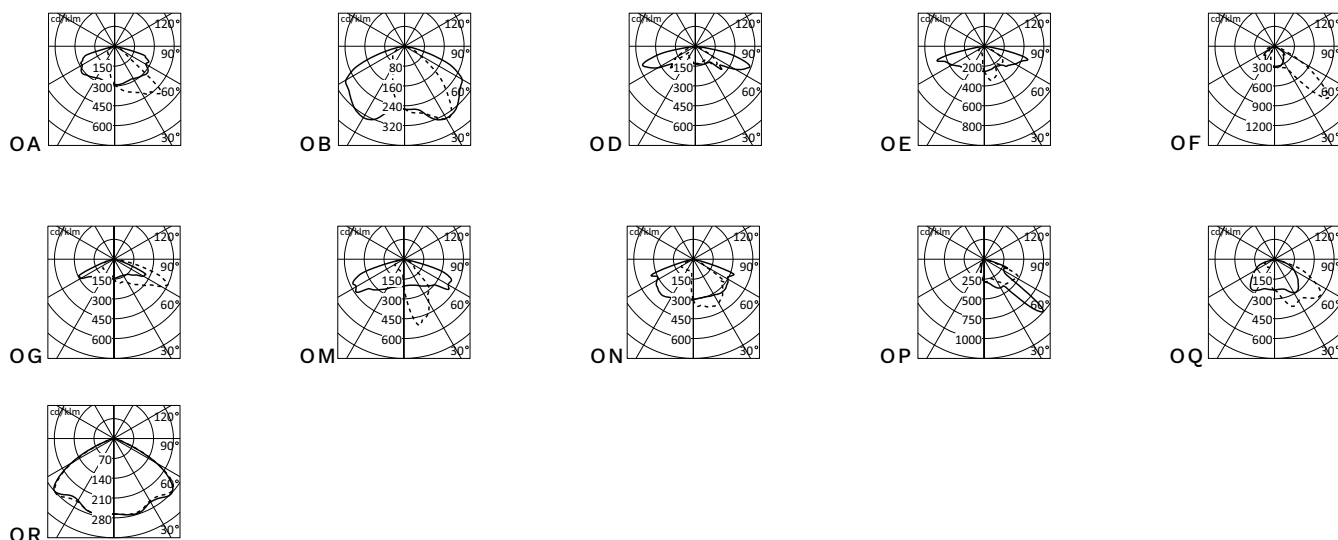
AUTO-DIM STANDARD: dimmerazione automatica standard

AUTO-DIM CUSTOM: dimmerazione automatica personalizzata

PLM: Power Line Modem ad onde convogliate

RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



Performance / Prestazioni

OPTICS	4000K CRI 70 - 700mA - IP66 - IK08											
	24 LED - 53 W				32 LED - 70 W				48 LED - 106 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	8.290 lm	6.635 lm	156 lm/W	A6+ 1,79	10.950 lm	8.760 lm	156 lm/W	A6+ 1,79	16.580 lm	13.265 lm	156 lm/W	A6+ 1,79
OD	8.290 lm	5.845 lm	156 lm/W	A4+ 1,58	10.950 lm	7.775 lm	156 lm/W	A4+ 1,59	16.580 lm	11.685 lm	156 lm/W	A4+ 1,57
OE	8.290 lm	6.220 lm	156 lm/W	A5+ 1,68	10.950 lm	8.190 lm	156 lm/W	A5+ 1,67	16.580 lm	12.455 lm	156 lm/W	A5+ 1,68
OF	8.290 lm	6.800 lm	156 lm/W	A7+ 1,83	10.950 lm	8.970 lm	156 lm/W	A7+ 1,83	16.580 lm	13.595 lm	156 lm/W	A7+ 1,83
OG	8.290 lm	6.060 lm	156 lm/W	A5+ 1,63	10.950 lm	7.995 lm	156 lm/W	A5+ 1,63	16.580 lm	12.115 lm	156 lm/W	A5+ 1,63

OPTICS	3000K CRI 70 - 700mA - IP66 - IK08											
	24 LED - 53 W				32 LED - 70 W				48 LED - 106 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	7.085 lm	5.670 lm	134 lm/W	A4+ 1,53	9.375 lm	7.500 lm	134 lm/W	A4+ 1,53	14.050 lm	11.240 lm	133 lm/W	A4+ 1,51
OD	7.085 lm	5.035 lm	134 lm/W	A++ 1,36	9.375 lm	6.665 lm	134 lm/W	A++ 1,36	14.050 lm	10.060 lm	133 lm/W	A++ 1,36
OE	7.085 lm	5.270 lm	134 lm/W	A3+ 1,42	9.375 lm	6.975 lm	134 lm/W	A3+ 1,42	14.050 lm	10.565 lm	133 lm/W	A3+ 1,42
OF	7.085 lm	5.810 lm	134 lm/W	A4+ 1,57	9.375 lm	7.675 lm	134 lm/W	A4+ 1,57	14.050 lm	11.625 lm	133 lm/W	A4+ 1,57
OG	7.085 lm	5.180 lm	134 lm/W	A++ 1,40	9.375 lm	6.840 lm	134 lm/W	A++ 1,40	14.050 lm	10.360 lm	133 lm/W	A++ 1,40

*Parameterised efficiency index (IPEA) determined for field of application defined as "large areas, roundabouts and parkings lighting". Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

ROYAL LIGHT

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

The coloured backlight is supplied by RGB LEDs managed through the control unit, which allows for varying over time and with a pre-determined cycle the red, green and blue colours that light up the part beneath the veil.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

La luce colorata della retroilluminazione è fornita da LED RGB gestiti dalla centralina di controllo, la quale consente di poter variare nel tempo e con ciclo prefissato le colorazioni rosso, verde e blu, che illuminano la parte sottostante la vela.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Royal Light is managed as a non-standard code.
Visit the [website](#) for further information.

Il prodotto Royal Light viene gestito come codice fuori standard.
Per maggiori informazioni visitare il [sito](#).

MODA

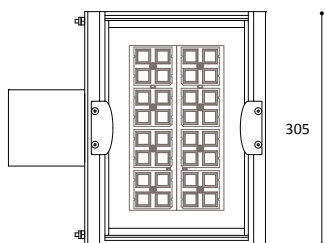
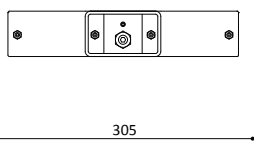
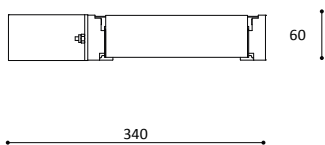
Moda is a direct-light LED lighting device with a minimalist design, consisting of a die-cast and extruded aluminium body 237 mm long, 305 mm wide and 60 mm high, in addition to a pole with square cross-section.

This product is suitable for urban decorative and street lighting purposes.

Moda è un apparecchio di illuminazione a luce diretta a LED dal design minimale, costituito da un corpo in pressofusione ed estrusione di alluminio di lunghezza 237 mm, larghezza 305 mm e altezza 60 mm e da un palo di sezione quadrata. Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Moda



MODA

Versions / Varianti

Moda lamp

Lampada Moda

Physical features / Caratteristiche fisiche

Light fitting dimensions: 237 mm (L) x 305 mm (W) x 60 mm (H).
Weight: 125 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 237 mm (L) x 305 mm (W) x 60 mm (H)
Peso: 125 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

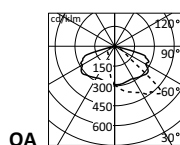
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

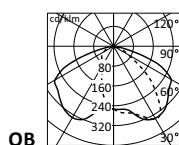
STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

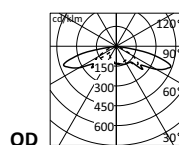
Optics / Ottiche



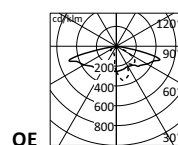
OA



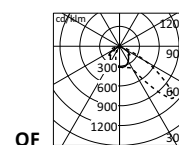
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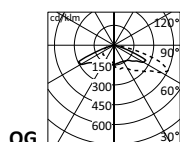
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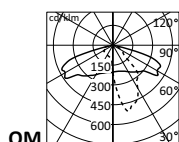
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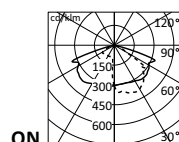
OF



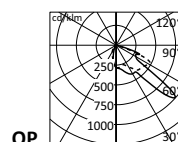
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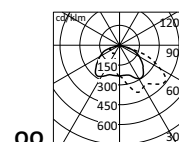
OM



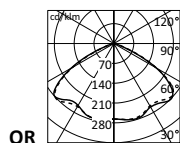
ON



OP



OQ



OR

Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK08								
OPTICS	16 LED - 35 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	156 lm/W	A6+ 1,71	10.950 lm	8.760 lm	156 lm/W	A5+ 1,67
OD	5.475 lm	3.885 lm	156 lm/W	A4+ 1,52	10.950 lm	7.775 lm	156 lm/W	A3+ 1,48
OE	5.475 lm	4.095 lm	156 lm/W	A5+ 1,60	10.950 lm	8.190 lm	156 lm/W	A4+ 1,56
OF	5.475 lm	4.485 lm	156 lm/W	A6+ 1,76	10.950 lm	8.970 lm	156 lm/W	A6+ 1,71
OG	5.475 lm	3.995 lm	156 lm/W	A4+ 1,56	10.950 lm	7.995 lm	156 lm/W	A4+ 1,52

3000K CRI 70 - 700mA - IP66 - IK08								
OPTICS	16 LED - 35 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.685 lm	3.750 lm	134 lm/W	A3+ 1,47	9.375 lm	7.500 lm	134 lm/W	A3+ 1,43
OD	4.685 lm	3.330 lm	134 lm/W	A++ 1,30	9.375 lm	6.665 lm	134 lm/W	A+ 1,27
OE	4.685 lm	3.480 lm	134 lm/W	A++ 1,36	9.375 lm	6.975 lm	134 lm/W	A++ 1,33
OF	4.685 lm	3.840 lm	134 lm/W	A4+ 1,50	9.375 lm	7.675 lm	134 lm/W	A3+ 1,46
OG	4.685 lm	3.425 lm	134 lm/W	A++ 1,34	9.375 lm	6.840 lm	134 lm/W	A++ 1,30

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

MODA

More features / Caratteristiche aggiuntive

The control gear is situated at the base of the pole to facilitate installation and maintenance.

Il gruppo di alimentazione è a base palo per facilità di installazione e manutenzione.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9A50D16AXR35Q**

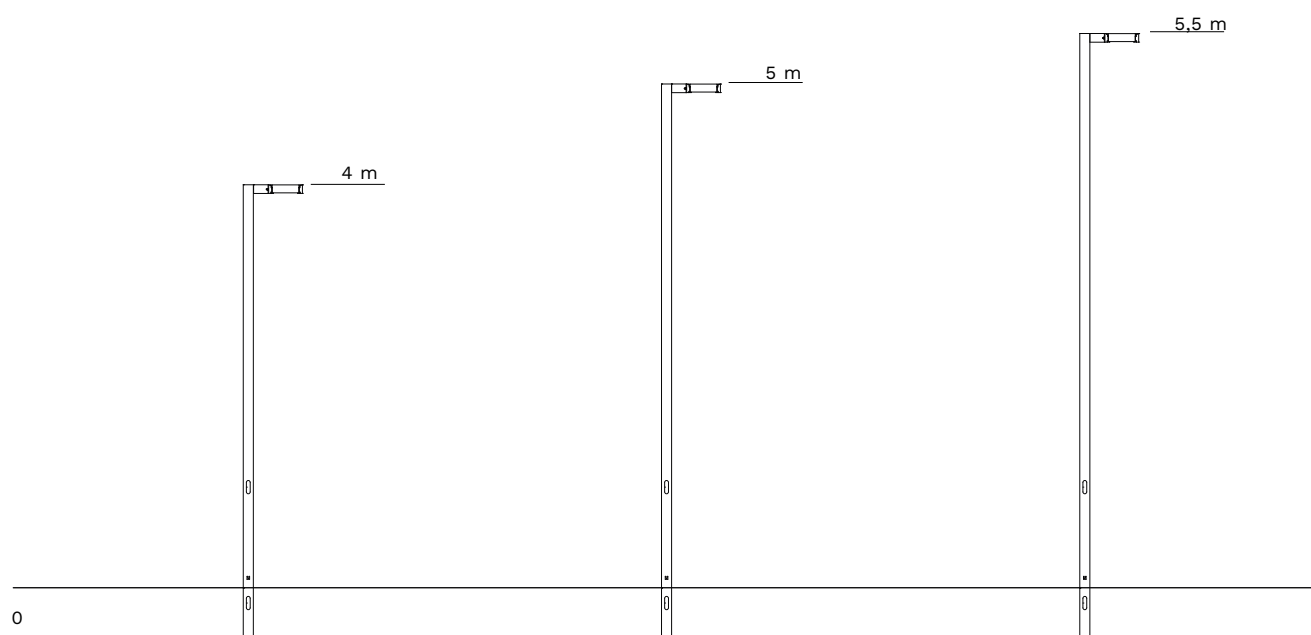
9A50	D	16	A	X	R	35	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9A50 = Moda	D = 4000K - 70	16=16	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	35 = 35 W (16L 700 mA)	Q = Standard
	B = 3000K - 70	32=32	B = OB		S = Class I / Not dimming / SPD	70 = 70 W (32L 700 mA)	R = Custom
			D = OD		O = Class II / Dimming / Varistore		
			E = OE		M = Class II / Dimming / Varistore + Esdbox		
			F = OF		K = Class II / Dimming / SPD		
			G = OG		I = Class II / Dimming / SPD + Esdbox		
			M = OM		N = Class II / Not dimming / Varistore + Esdbox		
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

Compatibility with poles / Compatibilità con pali

• Straight square pole size 100 x 100

• Palo quadrato dritto 100 x 100

Collection example / Esempio collezione



STRAIGHT SQUARE POLE,
MODA LAMP

STRAIGHT SQUARE POLE,
MODA LAMP

STRAIGHT SQUARE POLE,
MODA LAMP

STYLE

58	—	Alba
74	—	Hat
82	—	Antica
92	—	Romantic
102	—	Tau
110	—	Venezia City

ALBA

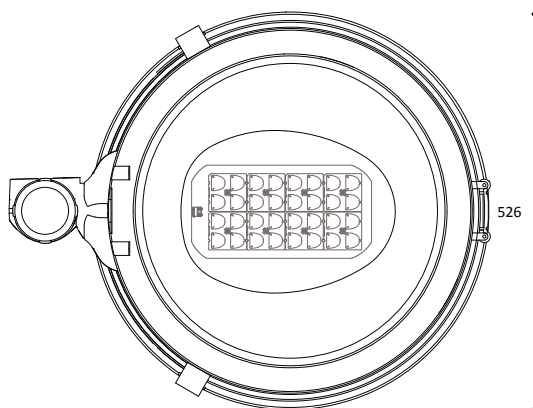
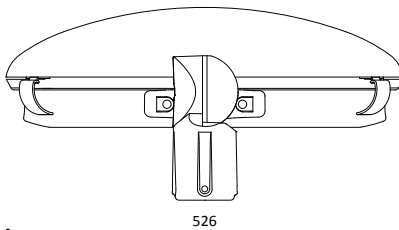
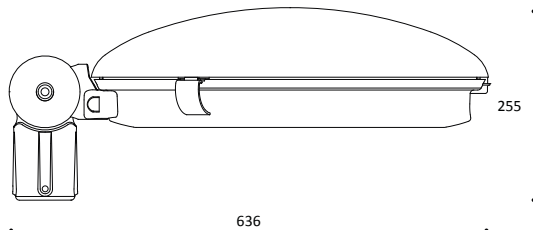
Alba a direct-light LED lighting device consisting of a die-cast aluminium body with 530 mm diameter and 158 mm height, weighing 10,5 kg (side- and top-mounted versions and pendant version) and 11,5 kg (bottom-mounted version). It is available in 4 variants: side, crook, bottom, suspension. Pole-top mount for Ø 60 mm poles (Alba side and Alba bottom). These products are suitable for urban decorative and street lighting purposes.

Alba è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di diametro 530 mm e altezza 158 mm, peso 10,5 kg (versione attacco laterale-superiore e sospensione) e 11,5 kg (attacco inferiore). È disponibile in 4 varianti: laterale, pastorale, inferiore, sospensione. Attacco testa palo per pali Ø 60 mm (Alba laterale e Alba inferiore).

Prodotti adatti per l'illuminazione d'arredo urbano e stradale.

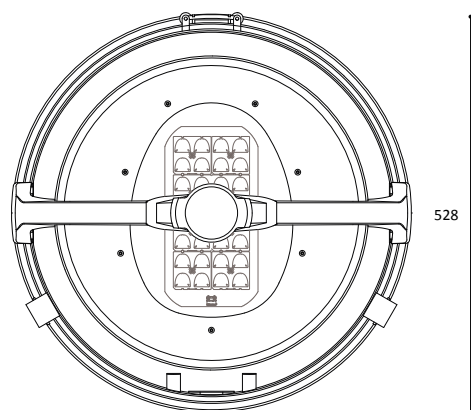
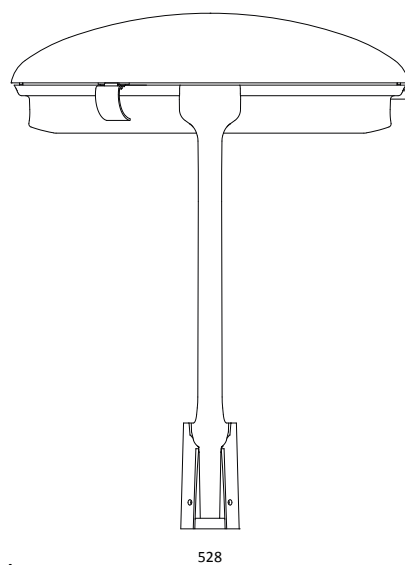
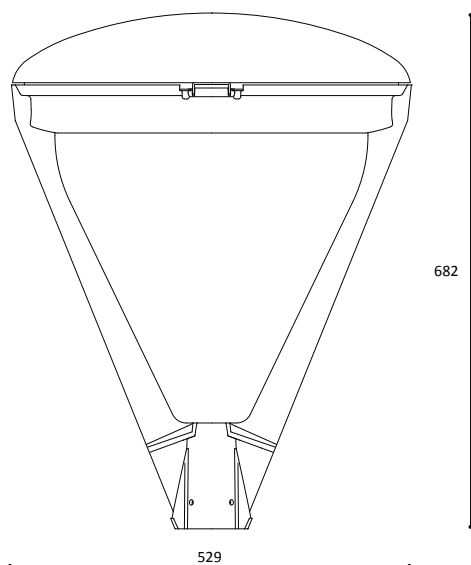




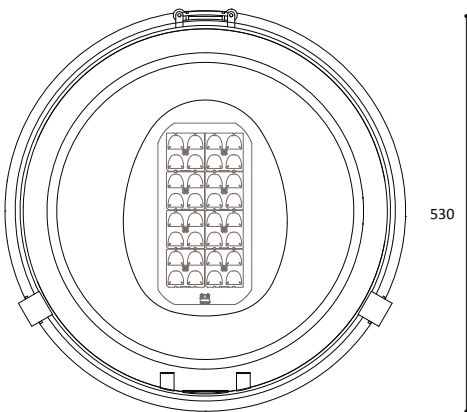
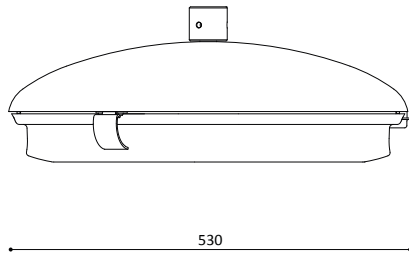
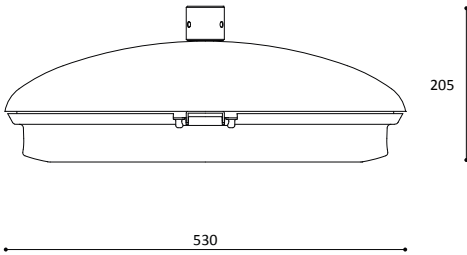


Alba side

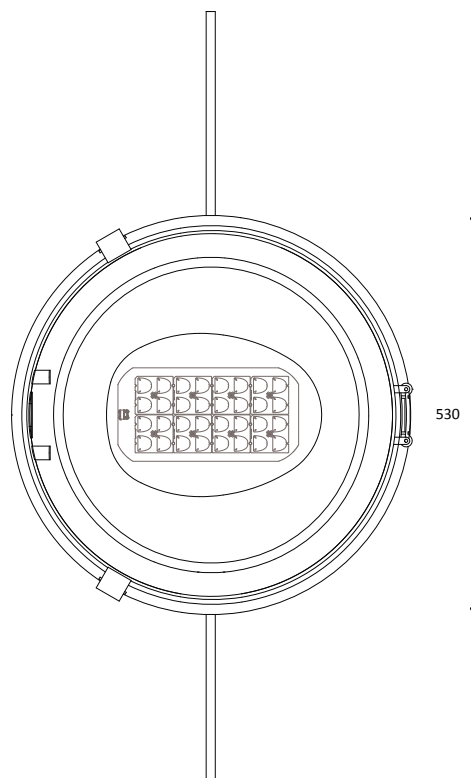
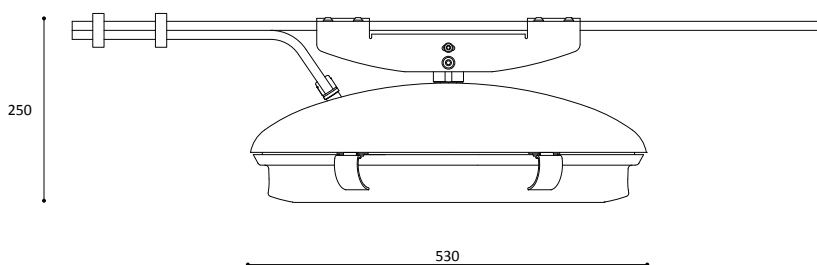
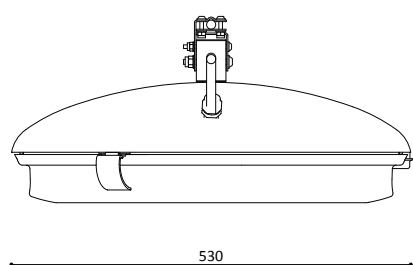




Alba bottom



Alba crook



Alba pendant



ALBA

Versions / Varianti

Alba side lamp
Alba bottom lamp
Alba pendant lamp
Alba crook lamp

Lampada Alba laterale
Lampada Alba inferiore
Lampada Alba sospensione
Lampada Alba pastorale

Physical features / Caratteristiche fisiche

Light fitting dimensions: Ø 530 (L, W) x 158 mm (H).
Weight: 10,5 kg (side- and top-mounted versions and pendant version); 11,5 kg (bottom-mounted version).
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: Ø 530 (L, W) x 158 mm (H)
Peso: 10,5 kg versione attacco laterale-superiore e sospensione); 11,5 kg (attacco inferiore).
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

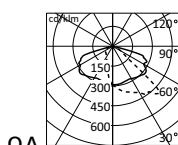
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

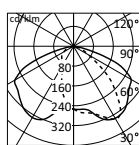
STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

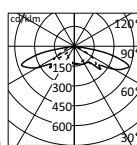
Optics / Ottiche



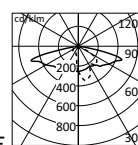
OA



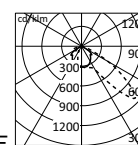
OB



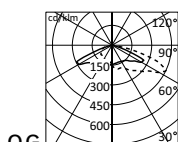
OD



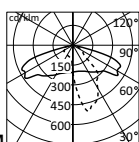
OE



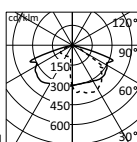
OF



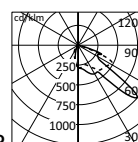
OG



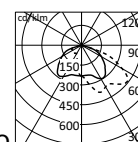
OM



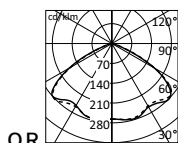
ON



OP



OQ



OR

Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK08

OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W				48 LED - 106 W			
	RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX	
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	156 lm/W	A6+ 1,71	8.290 lm	6.635 lm	156 lm/W	A6+ 1,71	10.950 lm	8.760 lm	156 lm/W	A5+ 1,67	16.580 lm	13.265 lm	156 lm/W	A4+ 1,51
OD	5.475 lm	3.885 lm	156 lm/W	A4+ 1,52	8.290 lm	5.845 lm	156 lm/W	A4+ 1,51	10.950 lm	7.775 lm	156 lm/W	A3+ 1,48	16.580 lm	11.685 lm	156 lm/W	A++ 1,33
OE	5.475 lm	4.095 lm	156 lm/W	A5+ 1,60	8.290 lm	6.220 lm	156 lm/W	A5+ 1,61	10.950 lm	8.190 lm	156 lm/W	A4+ 1,56	16.580 lm	12.455 lm	156 lm/W	A3+ 1,42
OF	5.475 lm	4.485 lm	156 lm/W	A6+ 1,76	8.290 lm	6.800 lm	156 lm/W	A6+ 1,76	10.950 lm	8.970 lm	156 lm/W	A6+ 1,71	16.580 lm	13.595 lm	156 lm/W	A4+ 1,55
OG	5.475 lm	3.995 lm	156 lm/W	A4+ 1,56	8.290 lm	6.060 lm	156 lm/W	A4+ 1,57	10.950 lm	7.995 lm	156 lm/W	A4+ 1,52	16.580 lm	12.115 lm	156 lm/W	A++ 1,38

3000K CRI 70 - 700mA - IP66 - IK08

OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W				48 LED - 106 W			
	RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX	
OA, OB, OM, ON, OP, OQ, OR	4.685 lm	3.750 lm	134 lm/W	A3+ 1,47	7.085 lm	5.670 lm	134 lm/W	A3+ 1,47	9.375 lm	7.500 lm	134 lm/W	A3+ 1,43	14.050 lm	11.240 lm	133 lm/W	A+ 1,28
OD	4.685 lm	3.330 lm	134 lm/W	A++ 1,30	7.085 lm	5.035 lm	134 lm/W	A++ 1,30	9.375 lm	6.665 lm	134 lm/W	A+ 1,27	14.050 lm	10.060 lm	133 lm/W	A 1,14
OE	4.685 lm	3.480 lm	134 lm/W	A++ 1,36	7.085 lm	5.270 lm	134 lm/W	A++ 1,36	9.375 lm	6.975 lm	134 lm/W	A++ 1,33	14.050 lm	10.565 lm	133 lm/W	A+ 1,20
OF	4.685 lm	3.840 lm	134 lm/W	A4+ 1,50	7.085 lm	5.810 lm	134 lm/W	A4+ 1,50	9.375 lm	7.675 lm	134 lm/W	A3+ 1,46	14.050 lm	11.625 lm	133 lm/W	A++ 1,32
OG	4.685 lm	3.425 lm	134 lm/W	A++ 1,34	7.085 lm	5.180 lm	134 lm/W	A++ 1,34	9.375 lm	6.840 lm	134 lm/W	A++ 1,30	14.050 lm	10.360 lm	133 lm/W	A 1,18

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

ALBA

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.



The tilt angle can be adjusted as follows: $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$.

Possibilità di regolare l'inclinazione: $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$.



Pole-top mount with vertical and horizontal orientation.

Aggancio testa-palo con orientamento verticale e orizzontale.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9150D16AXR35Q**

9150	D	16	A	X	R	35	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9150 = Side	D = 4000K - 70	16 =16	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	35 = 35 W (16L 700 mA)	Q = Standard
9150 = Top	B = 3000K - 70	24 =24	B = OB		S = Class I / Not dimming / SPD	53 = 53 W (24L 700 mA)	R = Custom
91100 = Bottom		32 =32	D = OD		O = Class II / Dimming / Varistore	70 = 70 W (32L 700 mA)	
9K00 = Suspended		48 =48	E = OE		M = Class II / Dimming / Varistore + Esdbox	A6 = 106 W (48L 700 mA)	
			F = OF		K = Class II / Dimming / SPD		
			G = OG		I = Class II / Dimming / SPD + Esdbox		
			M = OM		N = Class II / Not dimming / Varistore + Esdbox		
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

Compatibility with arms / Compatibilità con sbracci

Alba Side

- Aris arm
- Libra arm
- Vela arm
- Tema arm
- Hindi arm
- Tear Light arm
- Tear XL arm
- Evo arm

Alba Crook

- Crook arm with cap
- Alba arm
- Moon arm
- Antica arm

Alba Bottom

- Crook arm with cap (with Crook arm rotated by 180°)

Alba Laterale

- Sbraccio Aris
- Sbraccio Libra
- Sbraccio Vela
- Sbraccio Tema
- Sbraccio Hindi
- Sbraccio Tear Light
- Sbraccio Tear XL
- Sbraccio Evo

Alba Pastorale

- Sbraccio Pastorale con tappo
- Sbraccio Alba
- Sbraccio Moon
- Sbraccio Antica

Alba Inferiore

- Sbraccio Pastorale con tappo (con sbraccio pastorale ruotato di 180°)

Compatibility with poles / Compatibilità con pali

Alba Side

- Straight conical pole Ø 60
- Curved conical pole with Ø 60 arm
- Double curved conical pole with Ø 60 arm
- Straight cylindrical pole with shank Ø 60
- Straight tapered flanged pole Ø 60
- Straight tapered pole Ø 60

Alba Bottom

- Straight conical pole Ø 60
- Straight cylindrical pole with shank Ø 60
- Straight tapered flanged pole Ø 60
- Straight tapered pole Ø 60

Alba Laterale

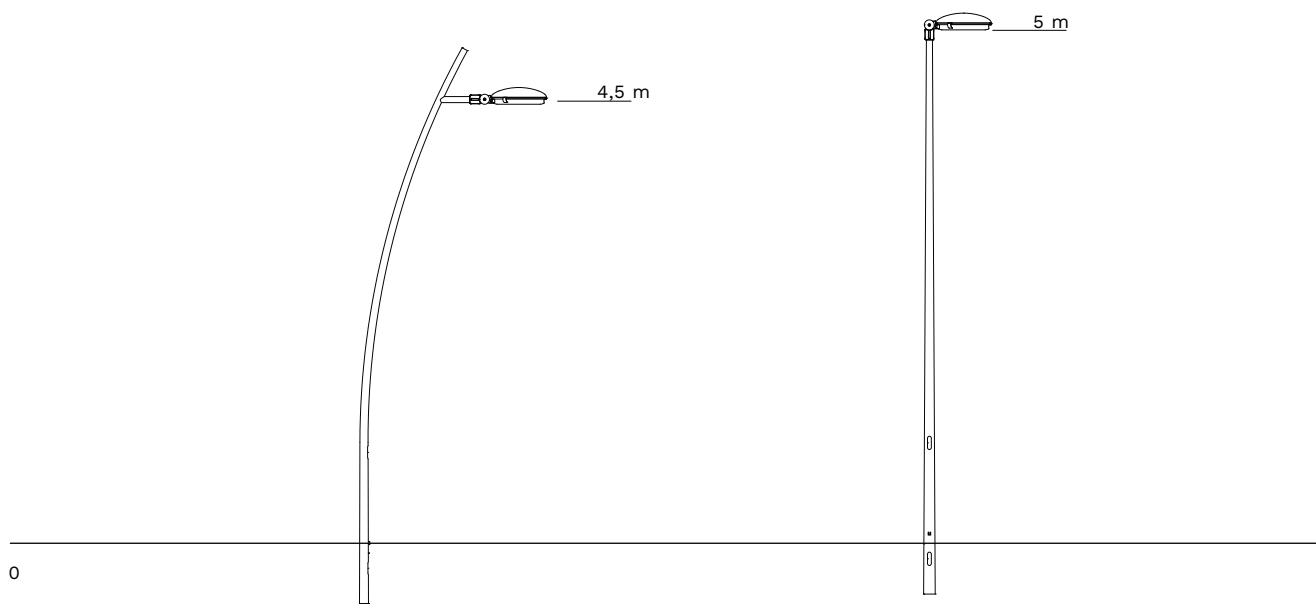
- Palo conico dritto Ø 60
- Palo conico curvato con sbraccio Ø 60
- Palo conico curvato doppio con sbraccio Ø 60
- Palo cilindrico dritto con codolo Ø 60
- Palo rastremato dritto flangiato Ø 60
- Palo rastremato dritto Ø 60

Alba Inferiore

- Palo conico dritto Ø 60
- Palo cilindrico dritto con codolo Ø 60
- Palo rastremato dritto flangiato Ø 60
- Palo rastremato dritto Ø 60

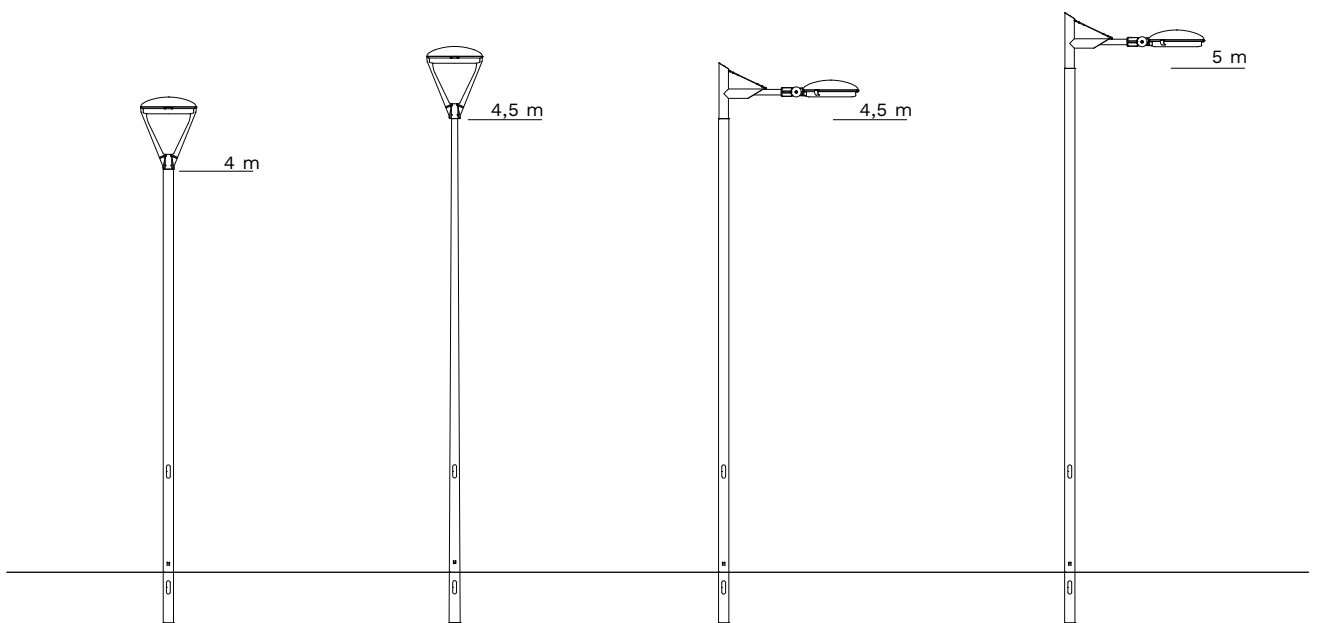
ALBA

Collection example / Esempio collezione



CURVED CONICAL POLE WITH OUTREACH ARM,
ALBA SIDE LAMP

STRAIGHT CONICAL POLE,
ALBA SIDE LAMP



STRAIGHT CYLINDRICAL
POLE, ALBA BOTTOM LAMP

STRAIGHT CONICAL POLE,
ALBA BOTTOM LAMP

STRAIGHT CYLINDRICAL POLE,
TEAR LIGHT OUTREACH ARM,
ALBA SIDE LAMP

STRAIGHT CYLINDRICAL POLE,
TEAR LIGHT OUTREACH ARM,
ALBA SIDE LAMP

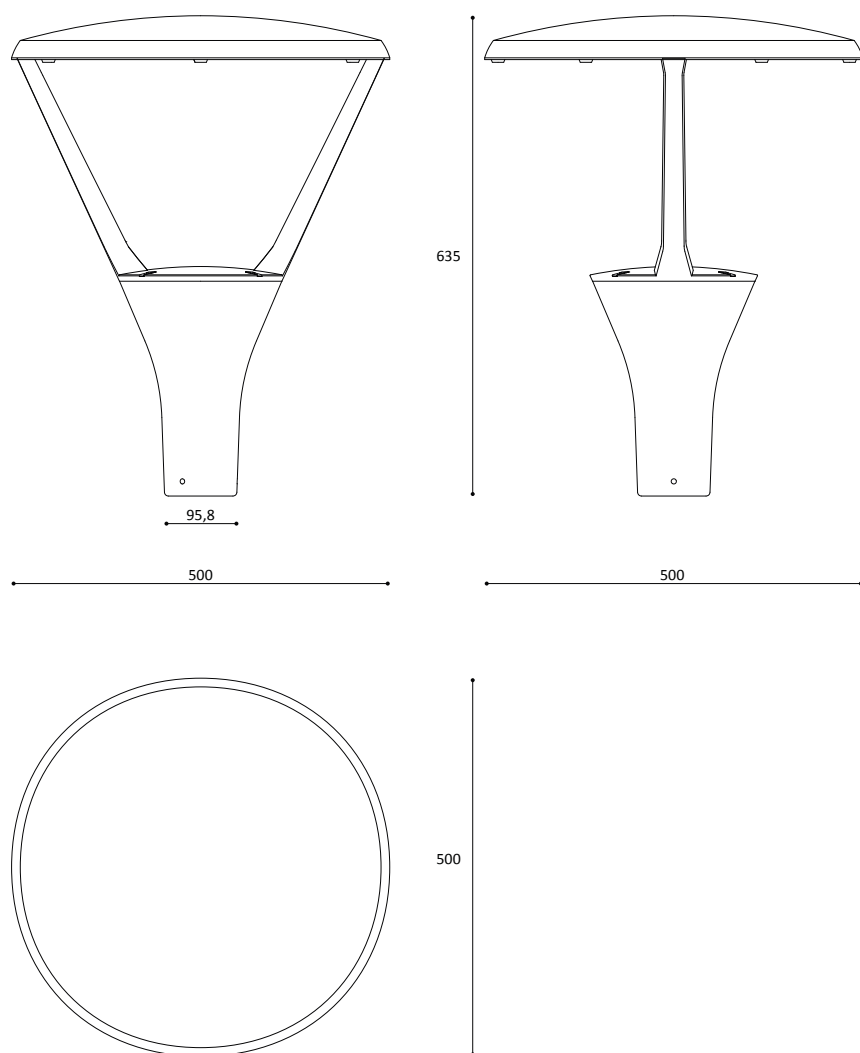
HAT

Hat is a direct-light LED lighting device consisting of a die-cast aluminium body with 500 mm diameter and 635 mm height, weighing 8,5 kg.
Pole-top mount for Ø 60 mm poles.
This product is suitable for urban decorative and street lighting purposes.

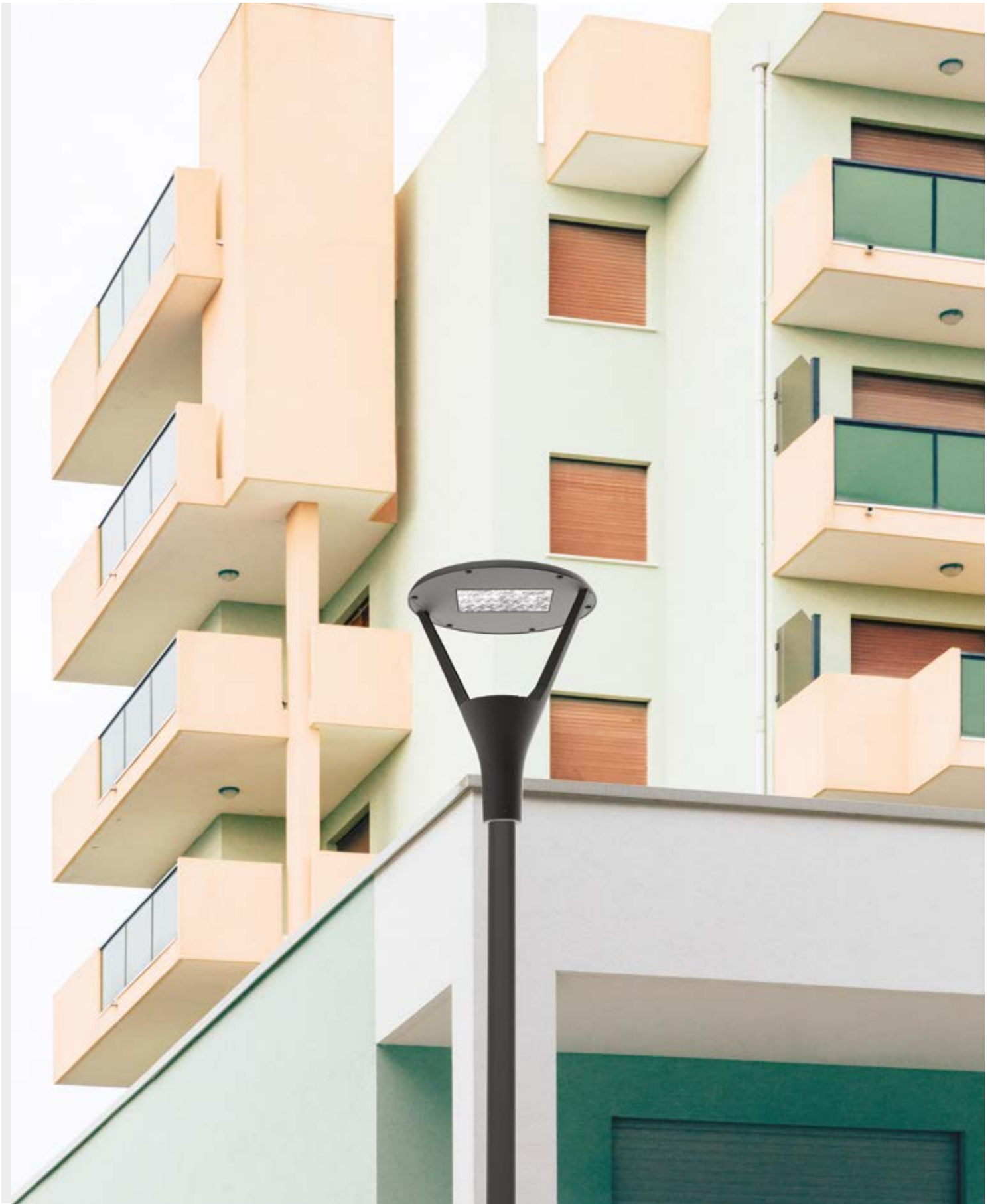
Hat è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di diametro 500 mm e altezza 635 mm, peso 8,5 kg.
Attacco testa palo per pali Ø 60 mm.
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Hat (suitable lamp for pole Ø 60 mm)



Versions / Varianti

Hat lamp

Lampada Hat

Physical features / Caratteristiche fisiche

Light fitting dimensions: Ø 500 mm (L, W) x 635 mm (H).
Weight: 8,5 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.
Optic: high-efficiency PMMA lenses.

Dimensioni corpo illuminante: ø 500 mm (L, W) x 635 mm (H)
Peso: 8,5 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.
Optica: lenti in PMMA ad alta efficienza.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - Temperature stabilisation: NTC sensor.
Mains voltage: 230 VAC/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

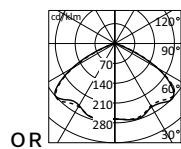
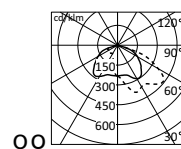
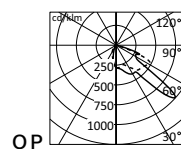
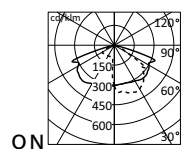
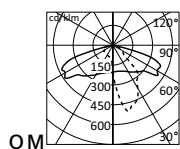
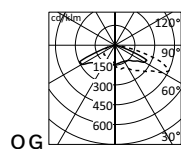
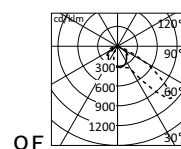
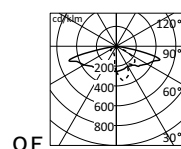
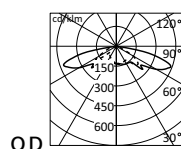
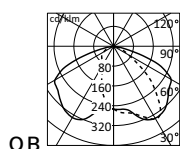
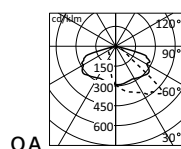
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



Performance / Prestazioni

4000K CRI 70 - IP65 - IK08												
OPTICS	16 LED - 525mA - 25,5 W				16 LED - 700mA - 34,5 W				16 LED - 1000mA - 52 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.555 lm	3.645 lm	179 lm/W	A8+ 1,91	5.785 lm	4.630 lm	168 lm/W	A6+ 1,79	7.535 lm	6.030 lm	145 lm/W	A4+ 1,55
OD	4.555 lm	3.230 lm	179 lm/W	A5+ 1,69	5.785 lm	4.105 lm	168 lm/W	A4+ 1,59	7.535 lm	5.345 lm	145 lm/W	A++ 1,37
OE	4.555 lm	3.410 lm	179 lm/W	A6+ 1,78	5.785 lm	4.330 lm	168 lm/W	A5+ 1,67	7.535 lm	5.640 lm	145 lm/W	A3+ 1,45
OF	4.555 lm	3.730 lm	179 lm/W	A8+ 1,95	5.785 lm	4.740 lm	168 lm/W	A7+ 1,83	7.535 lm	6.175 lm	145 lm/W	A4+ 1,58
OG	4.555 lm	3.325 lm	179 lm/W	A6+ 1,74	5.785 lm	4.225 lm	168 lm/W	A5+ 1,63	7.535 lm	5.505 lm	145 lm/W	A3+ 1,41

4000K CRI 70 - IP65 - IK08								
OPTICS	32 LED - 525mA - 51 W				32 LED - 700mA - 69 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	9.110 lm	7.290 lm	179 lm/W	A8+ 1,91	11.575 lm	9.260 lm	168 lm/W	A5+ 1,68
OD	9.110 lm	6.460 lm	179 lm/W	A5+ 1,69	11.575 lm	8.210 lm	168 lm/W	A3+ 1,49
OE	9.110 lm	6.820 lm	179 lm/W	A6+ 1,78	11.575 lm	8.660 lm	168 lm/W	A4+ 1,57
OF	9.110 lm	7.460 lm	179 lm/W	A8+ 1,95	11.575 lm	9.480 lm	168 lm/W	A6+ 1,72
OG	9.110 lm	6.650 lm	179 lm/W	A6+ 1,74	11.575 lm	8.450 lm	168 lm/W	A4+ 1,53

3000K CRI 70 - IP65 - IK08												
OPTICS	16 LED - 525mA - 25,5 W				16 LED - 700mA - 34,5 W				16 LED - 1000mA - 52 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	3.880 lm	3.105 lm	152 lm/W	A5+ 1,62	4.930 lm	3.945 lm	143 lm/W	A4+ 1,52	6.425 lm	5.140 lm	124 lm/W	A++ 1,32
OD	3.880 lm	3.750 lm	152 lm/W	A3+ 1,44	4.930 lm	3.500 lm	143 lm/W	A++ 1,35	6.425 lm	4.555 lm	124 lm/W	A 1,17
OE	3.880 lm	2.905 lm	152 lm/W	A4+ 1,52	4.930 lm	3.690 lm	143 lm/W	A3+ 1,43	6.425 lm	4.805 lm	124 lm/W	A+ 1,23
OF	3.880 lm	3.180 lm	152 lm/W	A5+ 1,66	4.930 lm	4.040 lm	143 lm/W	A4+ 1,56	6.425 lm	5.206 lm	124 lm/W	A++ 1,35
OG	3.880 lm	2.835 lm	152 lm/W	A3+ 1,48	4.930 lm	3.600 lm	143 lm/W	A++ 1,39	6.425 lm	4.690 lm	124 lm/W	A+ 1,20

3000K CRI 70 - IP65 - IK08								
OPTICS	32 LED - 525mA - 51 W				32 LED - 700mA - 69 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	7.760 lm	6.210 lm	152 lm/W	A5+ 1,62	9.860 lm	7.890 lm	143 lm/W	A3+ 1,43
OD	7.760 lm	5.505 lm	152 lm/W	A3+ 1,44	9.860 lm	6.995 lm	143 lm/W	A+ 1,27
OE	7.760 lm	5.810 lm	152 lm/W	A4+ 1,52	9.860 lm	7.380 lm	143 lm/W	A++ 1,34
OF	7.760 lm	6.355 lm	152 lm/W	A5+ 1,66	9.860 lm	8.075 lm	143 lm/W	A3+ 1,46
OG	7.760 lm	5.665 lm	152 lm/W	A3+ 1,48	9.860 lm	7.200 lm	143 lm/W	A++ 1,30

*Parameterised efficiency index (IPEA) determined for field of application defined as “green areas lighting”.
Efficiency valye refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of ± 5%.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer’s datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9K60D16AXR25V**

9K60	D	16	A	X	R	25	V
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9K60 = Hat	D = 4000K - 70	16=16	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	25 = 25,5 W (16L 525 mA)	Without the last letter = Standard
	B = 3000K - 70	32=32	B = OB		S = Class I / Not dimming / SPD	34 = 34,5 W (16L 700 mA)	
			D = OD		T = Class II / Dimming	52 = 52 W (16L 1000 mA)	
			E = OE		H = Class II / Not dimming	51 = 51 W (32L 525 mA)	V = Custom
			F = OF			69 = 69 W (32L 700 mA)	
			G = OG				
			M = OM				
			N = ON				
			P = OP				
			Q = OQ				
			R = OR				

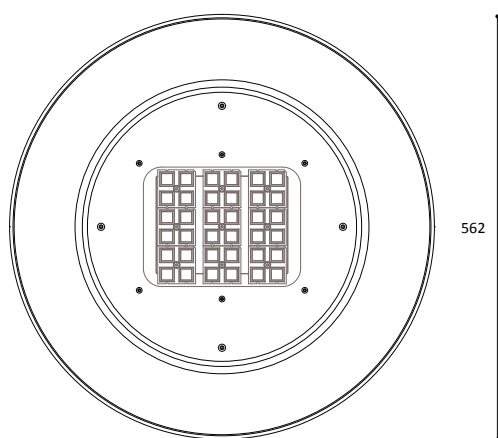
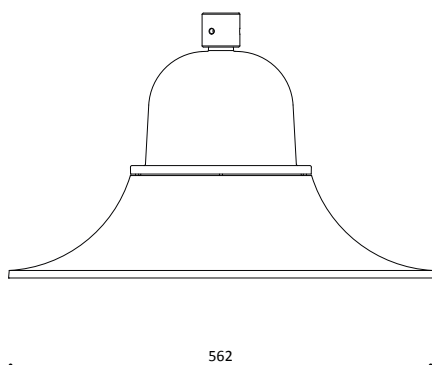
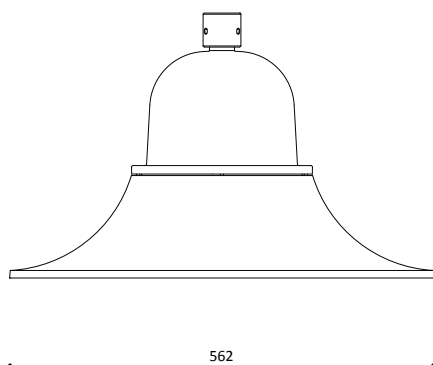
ANTICA

Antica is a direct-light pendant LED lighting device with a vintage design, consisting of a die-cast aluminium body with 560 mm diameter and 390 mm height, weighing 6,8 kg. The product is suitable for illuminating historic city centres with artistic devices.

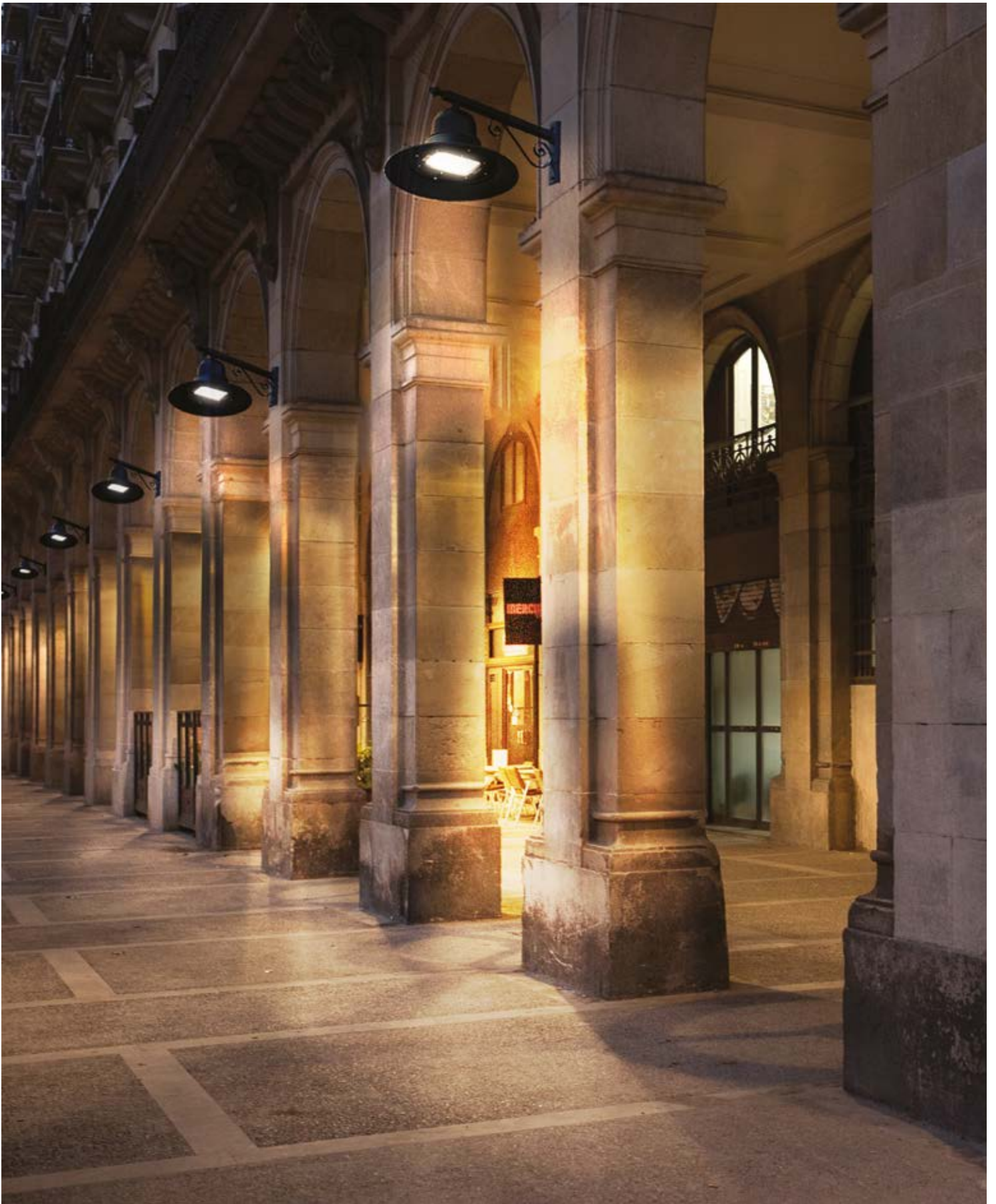
Antica è un apparecchio di illuminazione a sospensione a luce diretta a LED dal design retrò, costituito da un corpo in pressofusione di alluminio diametro 560 mm, altezza 390 mm e peso 6,8 kg. Prodotto adatto per l'illuminazione centri storici con apparecchi artistici.







Antica



Versions / Varianti

Antica lamp

Lampada Antica

Physical features / Caratteristiche fisiche

Light fitting dimensions: Ø 560 mm (L, W) x 390 mm (H).
Weight: 6,8 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: ø 560 mm (L, W) x 390 mm (H)
Peso: 6,8 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

2700-3000K LED - CRI 80
4000K LED - CRI 70
MacAdam: 3-step

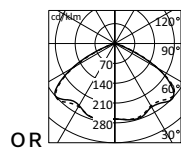
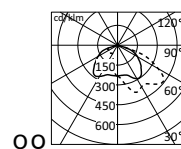
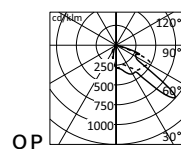
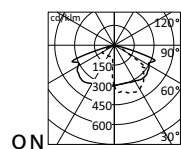
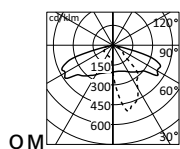
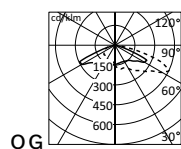
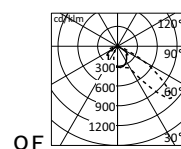
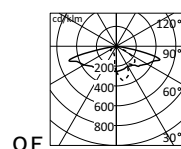
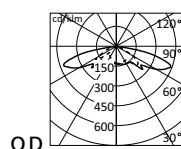
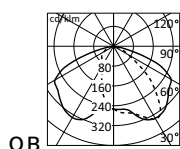
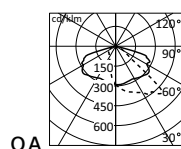
LED 2700-3000K - CRI 80
LED 4000K - CRI 70
McAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



Performance / Prestazioni

4000K CRI 70 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	156 lm/W	A9+ 2,09	8.290 lm	6.635 lm	156 lm/W	A9+ 2,09	10.950 lm	8.760 lm	156 lm/W	A9+ 2,09
OD	5.475 lm	3.885 lm	156 lm/W	A7+ 1,85	8.290 lm	5.845 lm	156 lm/W	A7+ 1,84	10.950 lm	7.775 lm	156 lm/W	A7+ 1,85
OE	5.475 lm	4.095 lm	156 lm/W	A8+ 1,95	8.290 lm	6.220 lm	156 lm/W	A8+ 1,96	10.950 lm	8.190 lm	156 lm/W	A8+ 1,95
OF	5.475 lm	4.485 lm	156 lm/W	A10+ 2,14	8.290 lm	6.800 lm	156 lm/W	A10+ 2,14	10.950 lm	8.970 lm	156 lm/W	A10+ 2,14
OG	5.475 lm	3.995 lm	156 lm/W	A8+ 1,90	8.290 lm	6.060 lm	156 lm/W	A8+ 1,91	10.950 lm	7.995 lm	156 lm/W	A8+ 1,90

3000K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.375 lm	3.500 lm	125 lm/W	A5+ 1,67	6.610 lm	5.290 lm	125 lm/W	A5+ 1,66	8.750 lm	7.000 lm	125 lm/W	A5+ 1,67
OD	4.375 lm	3.105 lm	125 lm/W	A3+ 1,48	6.610 lm	4.665 lm	125 lm/W	A3+ 1,47	8.750 lm	6.210 lm	125 lm/W	A3+ 1,48
OE	4.375 lm	3.270 lm	125 lm/W	A4+ 1,56	6.610 lm	4.960 lm	125 lm/W	A4+ 1,56	8.750 lm	6.545 lm	125 lm/W	A4+ 1,56
OF	4.375 lm	3.585 lm	125 lm/W	A6+ 1,71	6.610 lm	5.425 lm	125 lm/W	A6+ 1,71	8.750 lm	7.165 lm	125 lm/W	A6+ 1,71
OG	4.375 lm	3.195 lm	125 lm/W	A4+ 1,52	6.610 lm	4.835 lm	125 lm/W	A4+ 1,52	8.750 lm	6.385 lm	125 lm/W	A4+ 1,52

2700K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.060 lm	3.250 lm	116 lm/W	A4+ 1,55	6.150 lm	4.920 lm	116 lm/W	A4+ 1,55	8.125 lm	6.500 lm	116 lm/W	A4+ 1,55
OD	4.060 lm	2.880 lm	116 lm/W	A++ 1,37	6.150 lm	4.350 lm	116 lm/W	A++ 1,37	8.125 lm	5.760 lm	116 lm/W	A++ 1,37
OE	4.060 lm	3.040 lm	116 lm/W	A3+ 1,45	6.150 lm	4.605 lm	116 lm/W	A3+ 1,45	8.125 lm	6.075 lm	116 lm/W	A3+ 1,45
OF	4.060 lm	3.325 lm	116 lm/W	A4+ 1,58	6.150 lm	5.035 lm	116 lm/W	A4+ 1,58	8.125 lm	6.655 lm	116 lm/W	A4+ 1,58
OG	4.060 lm	2.965 lm	116 lm/W	A3+ 1,41	6.150 lm	4.495 lm	116 lm/W	A3+ 1,41	8.125 lm	5.930 lm	116 lm/W	A3+ 1,41

*Parameterised efficiency index (IPEA) determined for field of application defined as “city center lighting with artistic luminaires”. Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of ± 5%.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer’s datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting’s useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9B00D16AXR35Q**

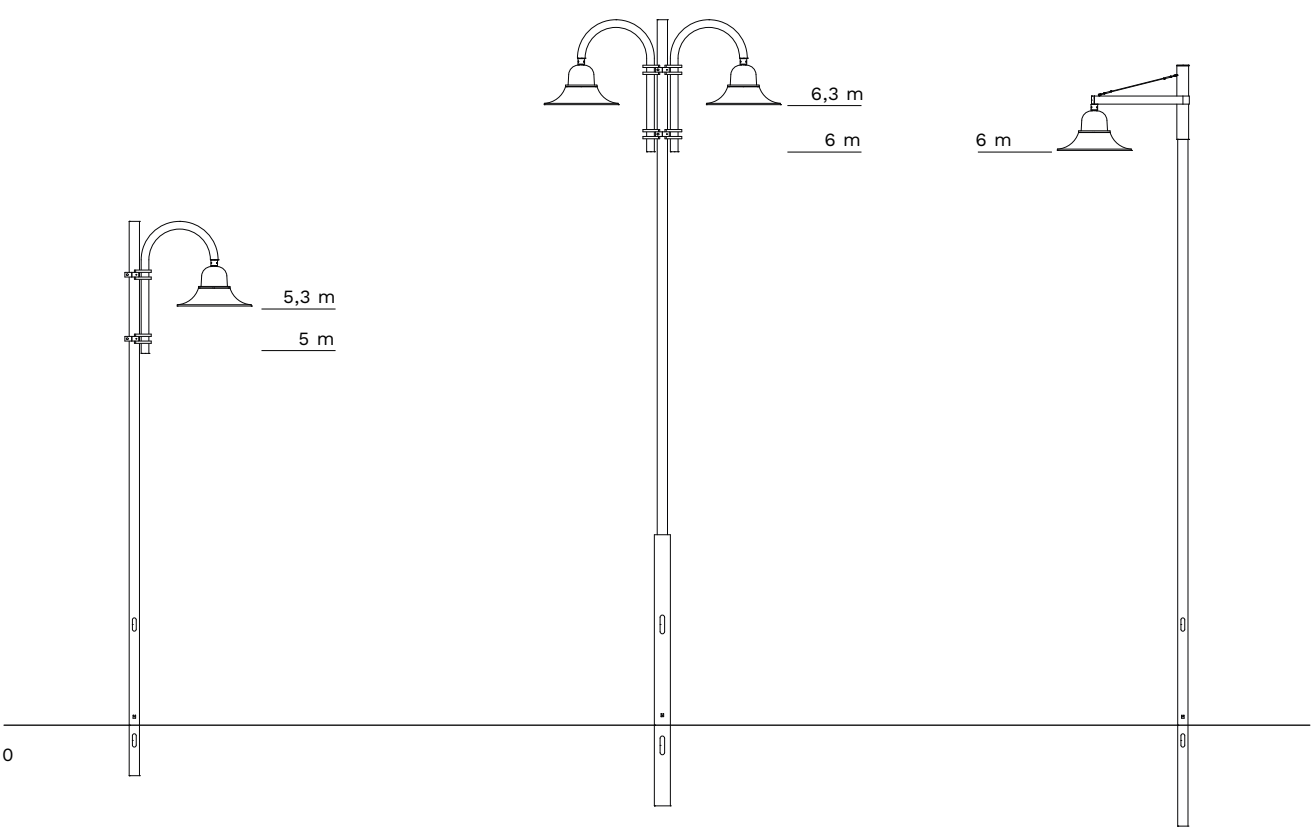
9B00	D	16	A	X	R	35	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9B00 = Antica	D = 4000K - 70	16=16	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	35 = 35 W (16L 700 mA)	Q = Standard
	H = 3000K - 80	24=24	B = OB		S = Class I / Not dimming / SPD	53 = 53 W (24L 700 mA)	R = Custom
	A = 2700K - 80	32=32	D = OD			70 = 70 W (32L 700 mA)	
			E = OE		O = Class II / Dimming / Varistore		
			F = OF		M = Class II / Dimming / Varistore + Esdbox		
			G = OG		K = Class II / Dimming / SPD		
			M = OM		I = Class II / Dimming / SPD + Esdbox		
			N = ON				
			P = OP		N = Class II / Not dimming / Varistore + Esdbox		
			Q = OQ		J = Class II / Not dimming / SPD		
			R = OR		L = Class II / Not dimming / SPD + Esdbox		

Compatibility with arms / Compatibilità con bracci

- Crook arm with cap (plus dedicated joining element)
- Alba arm
- Moon arm
- Antica arm
- Sbraccio Pastorale con tappo (più accoppiatore dedicato)
- Sbraccio Alba
- Sbraccio Moon
- Sbraccio Antica

ANTICA

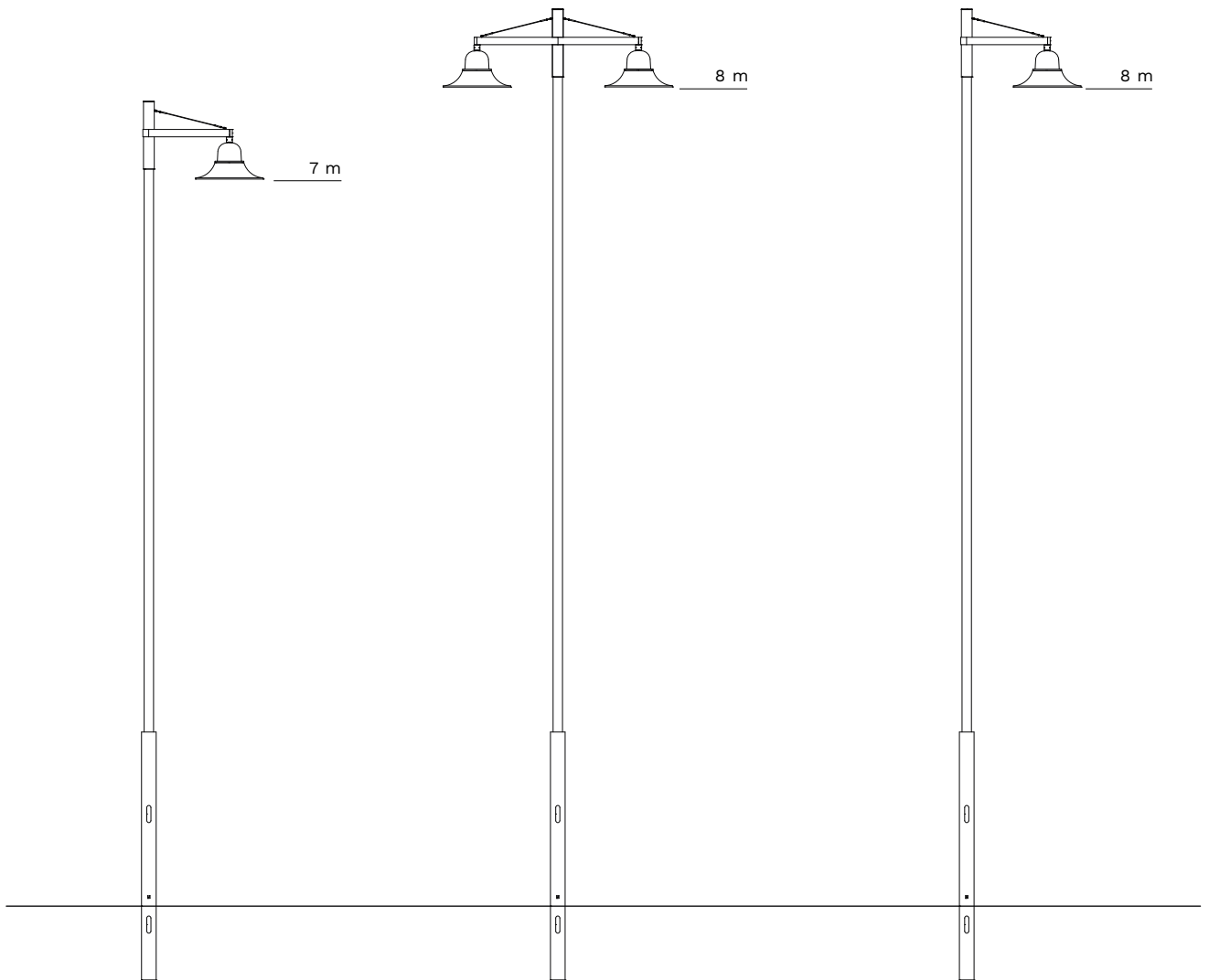
Collection example / Esempio collezione



STRAIGHT CYLINDRICAL POLE,
DECORATIVE OUTREACH ARM WITH CAP,
LARGE SINGLE BRACKETS,
ANTICA LAMP

STRAIGHT TAPERED POLE,
DECORATIVE OUTREACH ARMS WITH CAP,
LARGE DOUBLE BRACKETS,
ANTICA LAMPS

STRAIGHT CYLINDRICAL POLE,
ANTICA OUTREACH ARM,
ANTICA LAMP



STRAIGHT TAPERED POLE,
ANTICA OUTREACH ARM,
ANTICA LAMP

STRAIGHT TAPERED POLE,
ANTICA DOUBLE OUTREACH ARM,
ANTICA LAMPS

STRAIGHT TAPERED POLE,
ANTICA OUTREACH ARM,
ANTICA LAMP

ROMANTIC

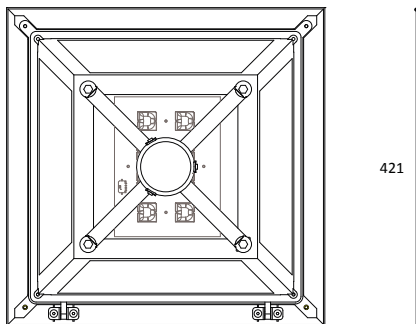
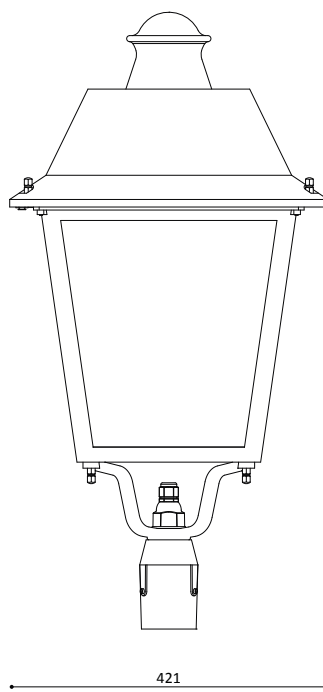
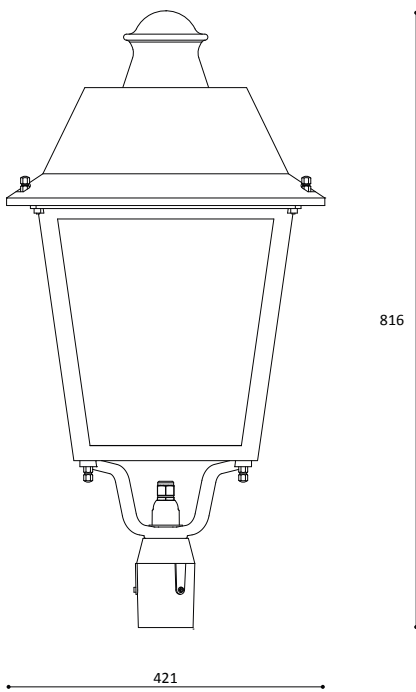
Romantic is a direct-light LED lighting device consisting of a die-cast aluminium body 421 mm wide, 816 mm high and 421 mm long, weighing 11 kg. Pole-top mount for Ø 60 mm poles.

The product is suitable for illuminating historic city centres with artistic devices.

Romantic è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di larghezza 421 mm, altezza 816 mm e lunghezza 421 mm, peso 11 kg. Attacco testa palo per pali Ø 60 mm. Prodotto adatto per l'illuminazione centri storici con apparecchi artistici.







Romantic



ROMANTIC

Versions / Varianti

Romantic lamp

Lampada Romantic

Physical features / Caratteristiche fisiche

Light fitting dimensions: 421 mm (L) x 421 mm (W) x 816 mm (H).
Weight: 11 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 421 mm (L) x 421 mm (W) x 816 mm (H).
Peso: 11 kg.
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100,000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85,000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

2700-3000K LED - CRI 80
4000K LED - CRI 70
MacAdam: 3-step

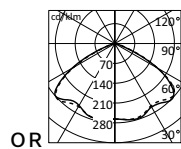
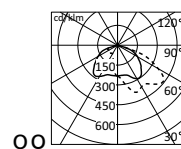
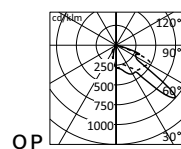
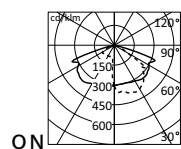
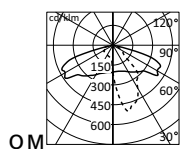
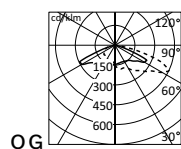
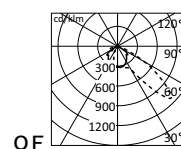
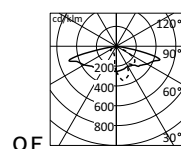
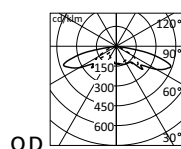
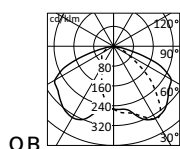
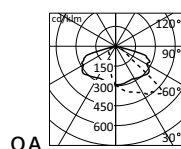
LED 2700-3000K - CRI 80
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



ROMANTIC

Performance / Prestazioni

4000K CRI 70 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	156 lm/W	A9+ 2,09	8.290 lm	6.635 lm	156 lm/W	A9+ 2,09	10.950 lm	8.760 lm	156 lm/W	A9+ 2,09
OD	5.475 lm	3.885 lm	156 lm/W	A7+ 1,85	8.290 lm	5.845 lm	156 lm/W	A7+ 1,84	10.950 lm	7.775 lm	156 lm/W	A7+ 1,85
OE	5.475 lm	4.095 lm	156 lm/W	A8+ 1,95	8.290 lm	6.220 lm	156 lm/W	A8+ 1,96	10.950 lm	8.190 lm	156 lm/W	A8+ 1,95
OF	5.475 lm	4.485 lm	156 lm/W	A10+ 2,14	8.290 lm	6.800 lm	156 lm/W	A10+ 2,14	10.950 lm	8.970 lm	156 lm/W	A10+ 2,14
OG	5.475 lm	3.995 lm	156 lm/W	A8+ 1,90	8.290 lm	6.060 lm	156 lm/W	A8+ 1,91	10.950 lm	7.995 lm	156 lm/W	A8+ 1,90

3000K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.375 lm	3.500 lm	125 lm/W	A5+ 1,67	6.610 lm	5.290 lm	125 lm/W	A5+ 1,66	8.750 lm	7.000 lm	125 lm/W	A5+ 1,67
OD	4.375 lm	3.105 lm	125 lm/W	A3+ 1,48	6.610 lm	4.665 lm	125 lm/W	A3+ 1,47	8.750 lm	6.210 lm	125 lm/W	A3+ 1,48
OE	4.375 lm	3.270 lm	125 lm/W	A4+ 1,56	6.610 lm	4.960 lm	125 lm/W	A4+ 1,56	8.750 lm	6.545 lm	125 lm/W	A4+ 1,56
OF	4.375 lm	3.585 lm	125 lm/W	A6+ 1,71	6.610 lm	5.425 lm	125 lm/W	A6+ 1,71	8.750 lm	7.165 lm	125 lm/W	A6+ 1,71
OG	4.375 lm	3.195 lm	125 lm/W	A4+ 1,52	6.610 lm	4.835 lm	125 lm/W	A4+ 1,52	8.750 lm	6.385 lm	125 lm/W	A4+ 1,52

2700K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.060 lm	3.250 lm	116 lm/W	A4+ 1,55	6.150 lm	4.920 lm	116 lm/W	A4+ 1,55	8.125 lm	6.500 lm	116 lm/W	A4+ 1,55
OD	4.060 lm	2.880 lm	116 lm/W	A++ 1,37	6.150 lm	4.350 lm	116 lm/W	A++ 1,37	8.125 lm	5.760 lm	116 lm/W	A++ 1,37
OE	4.060 lm	3.040 lm	116 lm/W	A3+ 1,45	6.150 lm	4.605 lm	116 lm/W	A3+ 1,45	8.125 lm	6.075 lm	116 lm/W	A3+ 1,45
OF	4.060 lm	3.325 lm	116 lm/W	A4+ 1,58	6.150 lm	5.035 lm	116 lm/W	A4+ 1,58	8.125 lm	6.655 lm	116 lm/W	A4+ 1,58
OG	4.060 lm	2.965 lm	116 lm/W	A3+ 1,41	6.150 lm	4.495 lm	116 lm/W	A3+ 1,41	8.125 lm	5.930 lm	116 lm/W	A3+ 1,41

*Parameterised efficiency index (IPEA) determined for field of application defined as “city center lighting with artistic luminaires”
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of ± 5%.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.

Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer’s datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting’s useful life.

L’apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications/ Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9E50D16AXR35Q**

9E50	D	16	A	X	R	35	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9E50 = Bottom	D = 4000K - 70	16=16	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	35 = 35 W (16L 700 mA)	Q = Standard
9E70 = Top	H = 3000K - 80	24=24	B = OB		S = Class I / Not dimming / SPD	53 = 53 W (24L 700 mA)	R = Custom
	A = 2700K - 80	32=32	D = OD		O = Class II / Dimming / Varistore	70 = 70 W (32L 700 mA)	
			E = OE		M = Class II / Dimming / Varistore + Esdbox		
			F = OF		K = Class II / Dimming / SPD		
			G = OG		I = Class II / Dimming / SPD + Esdbox		
			M = OM		N = Class II / Not dimming / Varistore + Esdbox		
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

Compatibility with arms / Compatibilità con sbracci

• Crook arm with cap (with Crook arm rotated by 180°)

• Sbraccio Pastorale con tappo (con sbraccio ruotato di 180°)

Compatibility with poles / Compatibilità con pali

• Straight conical pole Ø 60

• Palo conico dritto Ø 60

• Straight cylindrical pole with shank Ø 60

• Palo cilindrico dritto con codolo Ø 60

• Straight tapered flanged pole Ø 60

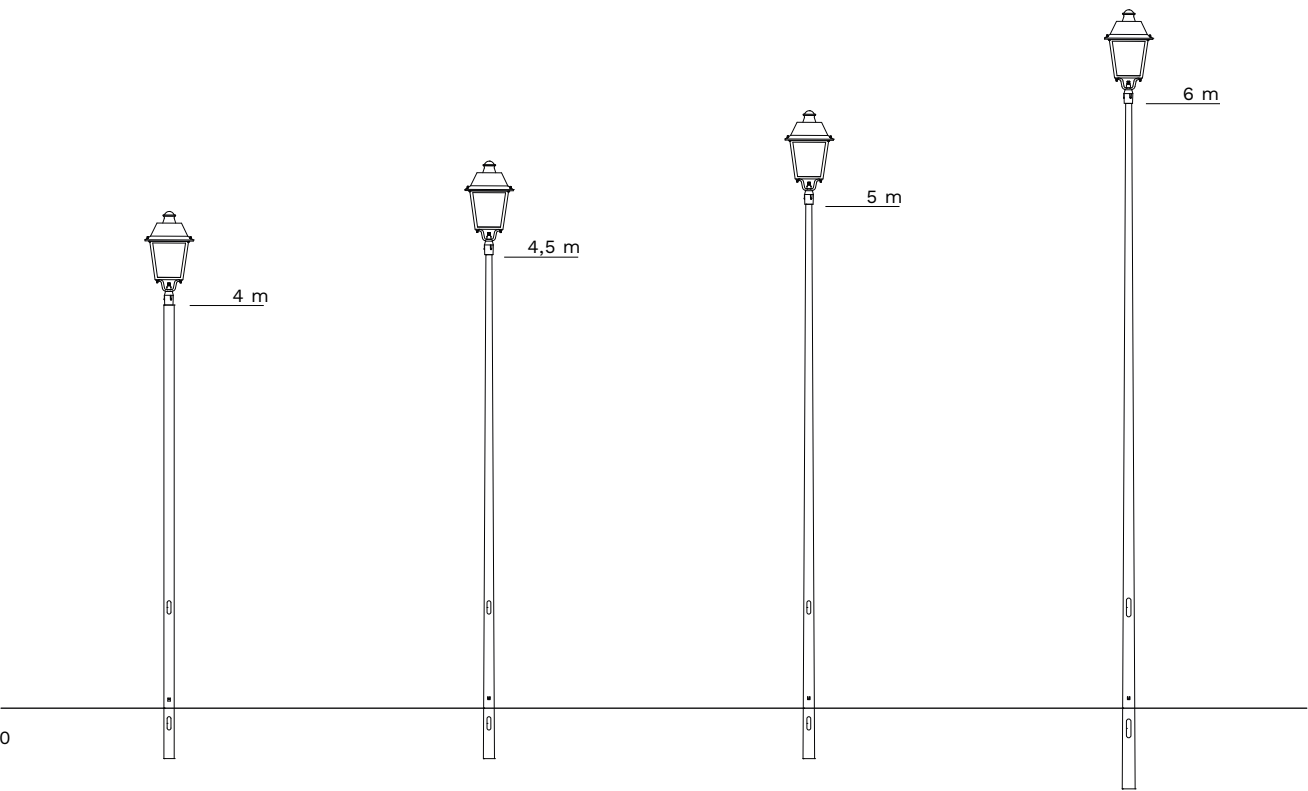
• Palo rastremato dritto flangiato Ø 60

• Straight tapered pole Ø 60

• Palo rastremato dritto Ø 60

ROMANTIC

Collection example / Esempio collezione

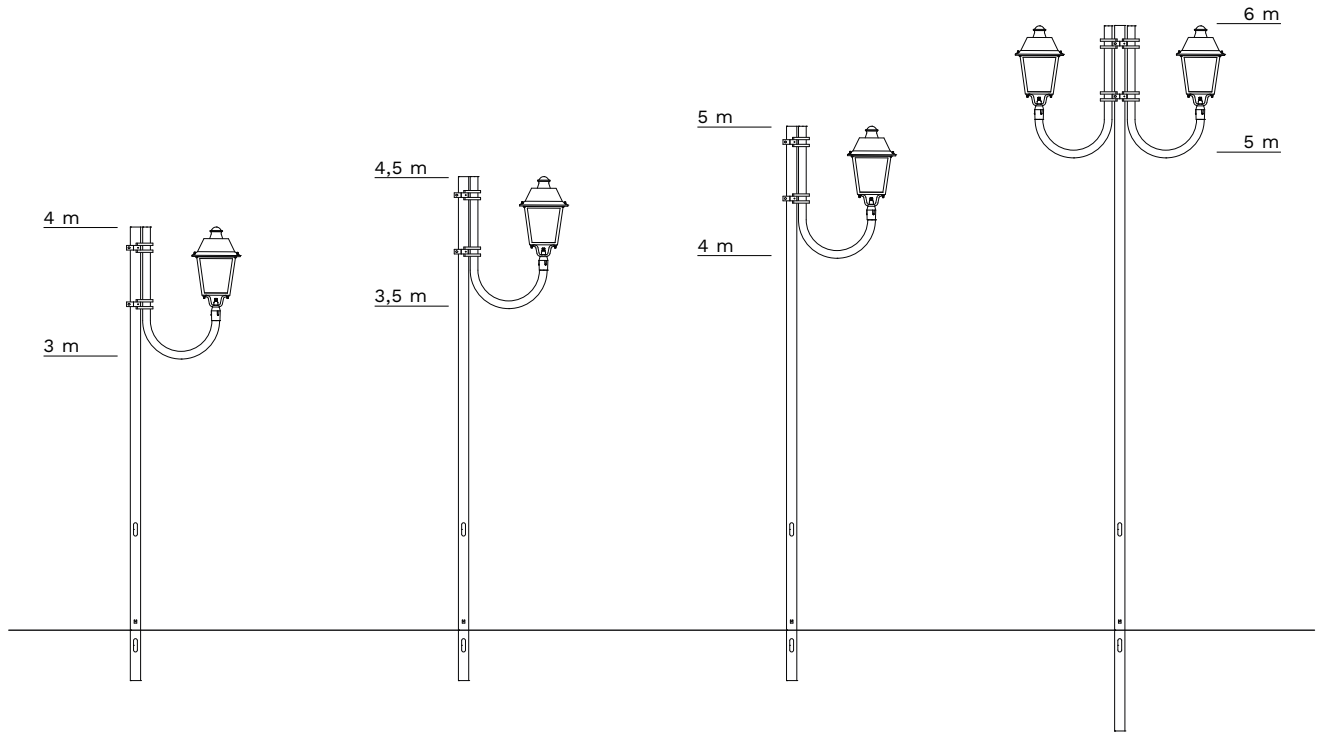


STRAIGHT CYLINDRICAL POLE
WITH TENON,
ROMANTIC LAMP

STRAIGHT CONICAL POLE,
ROMANTIC LAMP

STRAIGHT CONICAL POLE,
ROMANTIC LAMP

STRAIGHT CONICAL POLE,
ROMANTIC LAMP



STRAIGHT CYLINDRICAL POLE,
DECORATIVE OUTREACH ARM
WITH CAP,
LARGE SINGLE BRACKETS,
ROMANTIC LAMP

STRAIGHT CYLINDRICAL POLE,
DECORATIVE OUTREACH ARM
WITH CAP,
LARGE SINGLE BRACKETS,
ROMANTIC LAMP

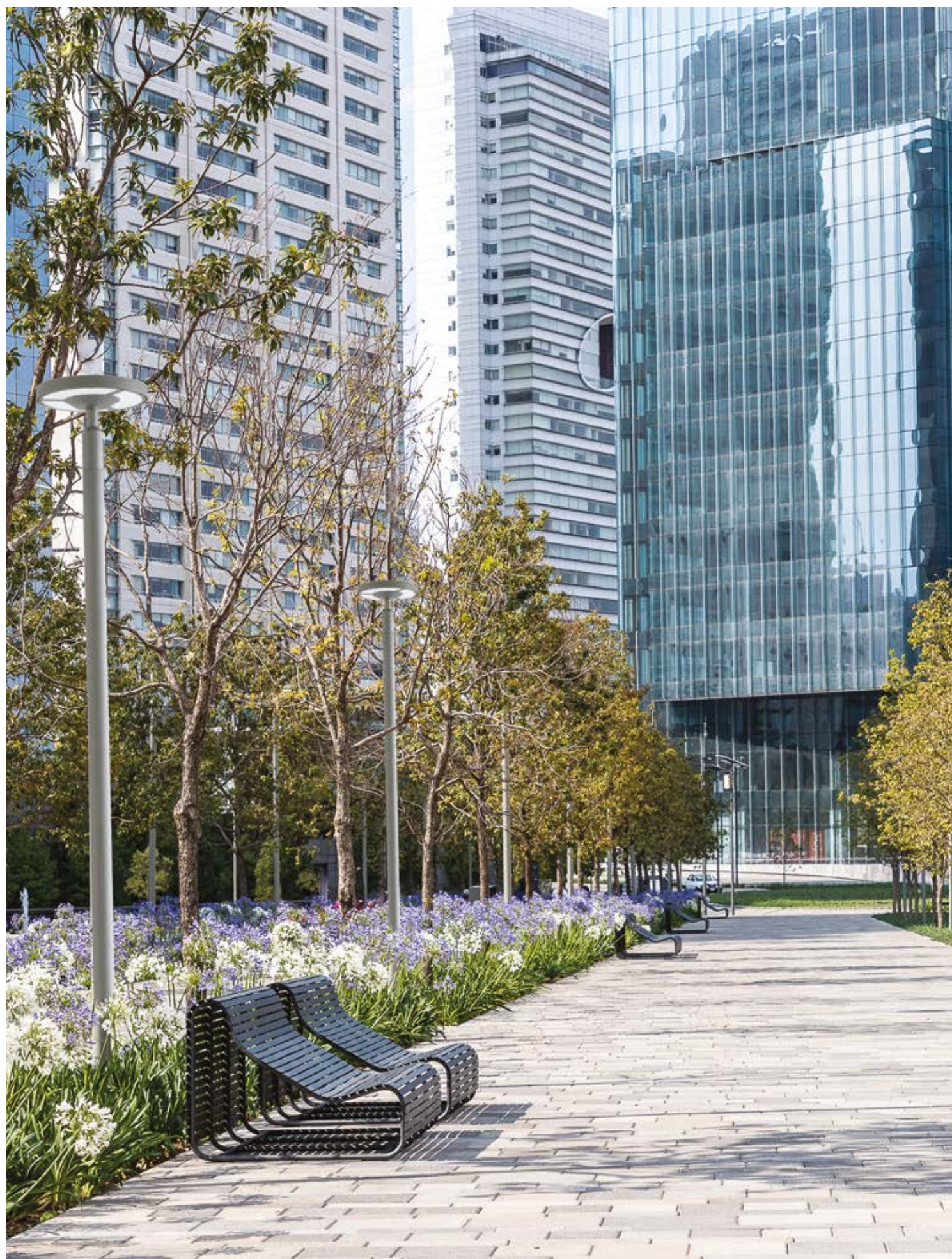
STRAIGHT CYLINDRICAL POLE,
DECORATIVE OUTREACH ARM
WITH CAP,
LARGE SINGLE BRACKETS,
ROMANTIC LAMP

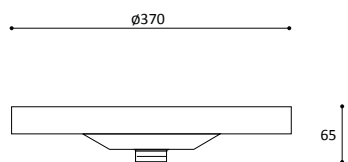
STRAIGHT CYLINDRICAL POLE,
DECORATIVE OUTREACH ARMS
WITH CAP,
LARGE DOUBLE BRACKETS,
ROMANTIC LAMP

TAU

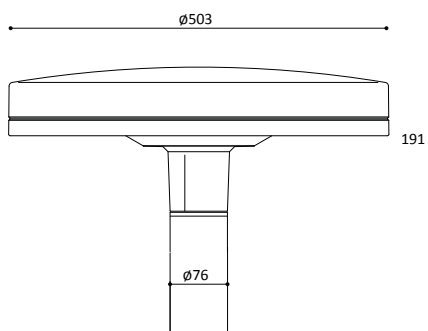
A slim disc stripped down to the bare essentials that generates a soft and comfortable light downwards only, thus conforming to the current regulations on light pollution.

Un disco sottile, ridotto all'essenziale che genera luce morbida e confortevole solo verso il basso ottemperando le attuali normative contro l'inquinamento luminoso.





Tau / 2



Tau / 3



TAU

Versions / Varianti

Tau/2 lamp post
Tau/3 lamp post

Lampione Tau/2
Lampione Tau/3

Physical features / Caratteristiche fisiche

Tau/2 light fitting dimensions: ø 370 mm (L, W) x 65 mm (H).
Tau/3 light fitting dimensions: ø 503 mm (L, W) x 191 mm (H).
Weight: 3 kg (Tau/2); 6 kg (Tau/3).
Coating: with polyester powders after several corrosion-prevention treatments (1500-hour salt spray test passed).
Body: die-cast aluminium, resistant to corrosion.
Diffuser: extra-clear tempered glass (Tau/3); polycarbonate (Tau/2).
Screws and bolts: grade AISI 304 stainless steel.
Seals: silicone rubber.

Dimensioni corpo illuminante Tau/2: ø 370 mm (L, W) x 65 mm (H)
Dimensioni corpo illuminante Tau/3: ø 503 mm (L, W) x 191 mm (H)
Peso: 3 kg (Tau/2); 6 kg (Tau/3)
Verniciatura: a polveri poliesteri, previo pluritrattamenti contro la corrosione (supera il test di 1500 ore in nebbia salina).
Corpo: Alluminio pressofuso, resistente alla corrosione
Diffusore: Vetro temperato extra chiaro (Tau/3); Policarbonato (Tau/2)
Viteria: Inox AISI 304
Guarnizioni: Gomma ai siliconi

Electrical features / Caratteristiche elettriche

Vita economica: 50.000 h L80B20 TJ = 25° C
Driver: integrato ON-OFF o DALI (solo T2) Tensione di rete: 220-240V / 50-60Hz
Cablaggio: Completo di spezzone di cavo H07RN-F già collegato e collaudato a tenuta.
Corpo illuminante Tau/2 classe di isolamento II.
Corpo illuminante Tau/3 classe di isolamento I (a richiesta classe II).

Vita economica: 50.000 h L80B20 TJ = 25° C
Driver: integrato ON-OFF o DALI (solo T2) Tensione di rete: 220-240V / 50-60Hz
Cablaggio: Completo di spezzone di cavo H07RN-F già collegato e collaudato a tenuta.
Corpo illuminante Tau/2 classe di isolamento II.
Corpo illuminante Tau/3 classe di isolamento I (a richiesta classe II).

Power supply / Alimentazione

ON-OFF control gear with dimming on request, with a power factor of 90%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I and Class II insulation.

Alimentatore ON-OFF e dimmerabile a richiesta, con un power factor del 90%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I e II di isolamento.

Sources / Sorgenti

3000K LED - CRI 80
4000K LED - CRI 80

LED 3000K - CRI 70
LED 4000K - CRI 70

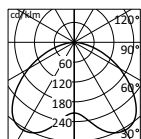
Dimming options / Opzioni di dimmerazione

DALI-DIMMING OPTION
STANDARD AUTO-DIM on request

DALI-DIMMING OPTION
AUTO-DIM STANDARD a richiesta

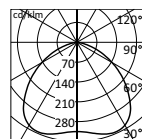
Optics / Ottiche

TAU/2



Rotosymmetric

TAU/3



Rotosymmetric

Performance / Prestazioni

OPTICS	4000K					
	TAU 2 - 29 W			TAU 3 - 78 W		
	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
ROSYMMETRIC	1.470 lm	50,7 lm/W	E 0,69	6.204 lm	79 lm/W	B 1,06

*Parameterised efficiency index (IPEA) determined for field of application defined as "street and large area lighting".

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

More features / Caratteristiche aggiuntive



POLE TOP FIXING for Ø60 x 100mm
(only for Tau/2).

Raccordo di fissaggio a testa palo per
codoli Ø60x100mm (solo per Tau/2).



POLE TOP FIXING for Ø60mm, only for Tau/2
(to be combined with pole D43/P300).

Raccordo di fissaggio a testa palo Ø60mm,
idoneo per il fissaggio di apparecchi Tau/2
(da abbinare al palo D43/P300)

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471,
EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471,
EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Codes / Codici

Example code: D 4 3 / 2 - L W N - G R

D43	2	LWN	-	GR
MODEL	SIZE	LIGHTING COLORS	CONTROLS	FINISH
D43 = Tau	2 = ø 370 mm (29W) 3 = ø 503 mm (78W)	LWN = 4000K CRI>80 LWW = 3000K CRI>80	Standard Electronic add DD - = DALI*	GR = Graphite

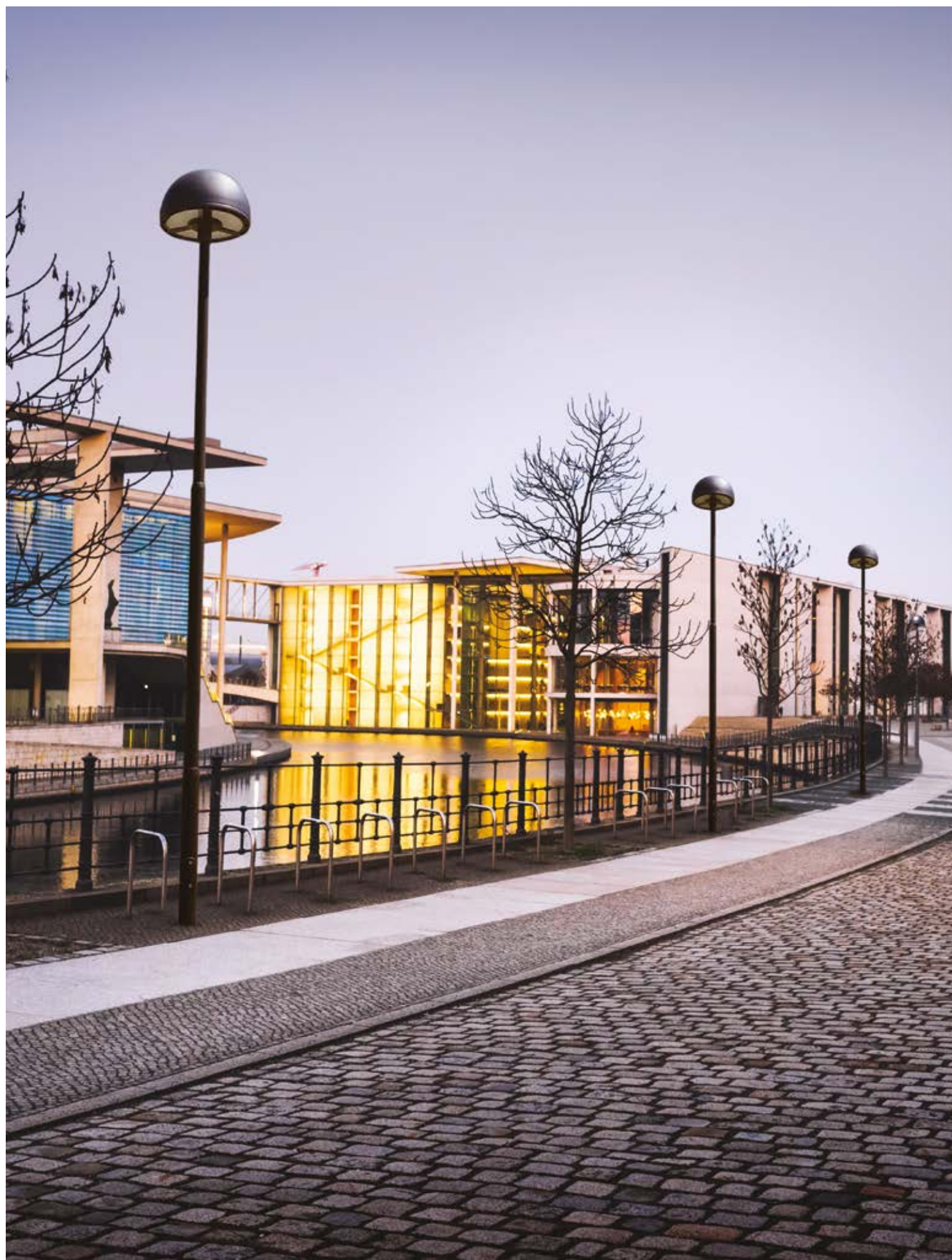
*Only for versions Tau/2

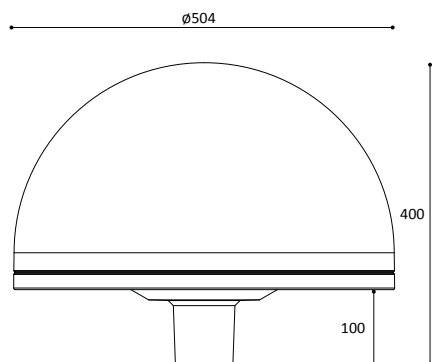
VENEZIA CITY

Venezia is the most widely installed urban light fitting ever, appreciated for its harmonious and clean shape. Venezia has now been updated with a Chip-On-Board LED platform, more compact overall dimensions and an even more uniform and high-performance light emission. Maintaining the original aesthetic concept, it can be used in the same contexts as the previous version. A LED retrofit kit is also available for the previous version, offering considerable energy saving.

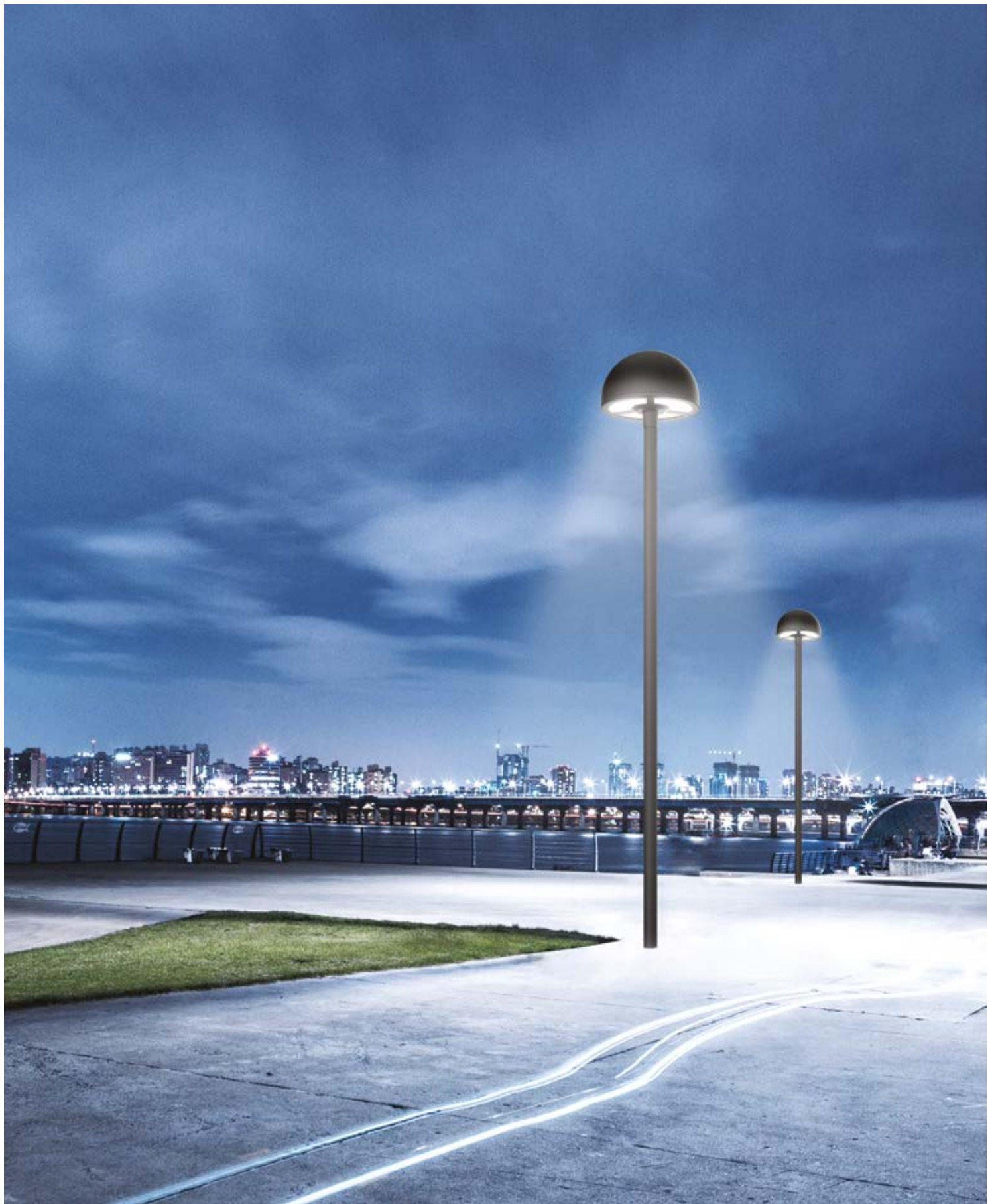
Venezia è il prodotto per l'arredo urbano più installato di sempre, apprezzato per la sua forma armoniosa e pulita. Oggi Venezia si rinnova con una piattaforma LED Chip On Board, ingombri più contenuti e un'emissione luminosa ancora più uniforme e performante. Mantenendo il concetto estetico originario, può inserirsi in tutti quei contesti dove è già presente la precedente versione, per la quale è disponibile anche un kit retrofit LED che consente un notevole risparmio energetico.







Venezia City



VENEZIA CITY

Versions / Varianti

Venezia City lamp post

Lampione Venezia City

Physical features / Caratteristiche fisiche

Light fitting dimensions: Ø 504 mm (L, W) x 400 mm (H).
Weight: 6,5 kg.
Coating: with polyester powders after several corrosion-prevention treatments (1500-hour salt spray test passed).
Body: die-cast aluminium pole mount, resistant to corrosion.
Fitting body made of die-cast aluminium and spin-formed sheet metal.
Diffuser: tempered glass screens.
Screws and bolts: grade AISI 304 stainless steel.
Seals: silicone rubber.

Dimensioni corpo illuminante: ø 504 mm (L, W) x 400 mm (H)
Peso: 6,5 kg
Verniciatura: a polveri poliesteri, previo pluritrattamenti contro la corrosione (supera il test di 1500 ore in nebbia salina).
Corpo: Attacco a palo in alluminio pressofuso, resistente alla corrosione. Corpo apparecchio in alluminio pressofuso e lamiera tornita in lastra.
Diffusore: Schermi in vetro temperato
Viteria: Inox AISI 304
Guarnizioni: Gomma ai siliconi

Electrical features / Caratteristiche elettriche

Economic life: 60.000 h L90B10 Ta = 25°C.
Driver: ON-OFF.
Mains voltage: 220-240 V / 50-60 Hz.
Wiring: complete with H07RN-F cable section already connected and tested for insulation.
Insulation classes I and II.

Vita economica: 60.000 h L90B10 Ta = 25°C
Driver: ON-OFF
Tensione di rete: 220-240V / 50-60Hz
Cablaggio: Completo di spezzone di cavo H07RN-F già collegato e collaudato a tenuta.
Classe di isolamento I e II.

Power supply / Alimentazione

ON-OFF control gear and automatic dimming, with a power factor of up to 95%.
The device guarantees a level protection against discharges of up to 10 kV with Class I and Class II insulation.

Alimentatore ON-OFF e dimmerazione automatica, con un power factor fino a 95%.
Dispositivo di protezione alle scariche fino a 10 kV in classe I e II di isolamento.

Sources / Sorgenti

3000K LED - CRI 80
4000K LED - CRI 80

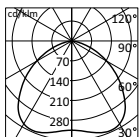
LED 3000K - CRI 80
LED 4000K - CRI 80

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata

Optics / Ottiche



Roto-symmetric

Performance / Prestazioni

OPTICS	4000K		
	LUMINAIRE FLUX	TAU 3 - 78 W EFFICIENCY	IPEA* INDEX
ROSYMMETRIC	6.204 lm	79,5 lm/W	B 1,06

OPTICS	3000K		
	LUMINAIRE FLUX	TAU 3 - 78 W EFFICIENCY	IPEA* INDEX
ROSYMMETRIC	5.273 lm	67,6 lm/W	C 0,9

*Parameterised efficiency index (IPEA) determined for field of application defined as "street and large area lighting".

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

VENEZIA CITY

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471, EN61547, EN61000-3-2, EN61000-3-3, EN62493.	Normative: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.	Certificazioni: CE, RoHS.

Codes / Codici

Example code: D 2 4 K / C I T Y - L W N - G R

D24	K	CITY	LWN	GR
MODEL	CLASS	VERSION	LIGHTING COLORS	FINISH
D24 = Venezia	K = Class I = Class II	CITY	LWN = 4000K CRI>80 LWW = 3000K CRI>80	AL = Aluminium grey GR = Graphite

LED CONVERSION MODULES

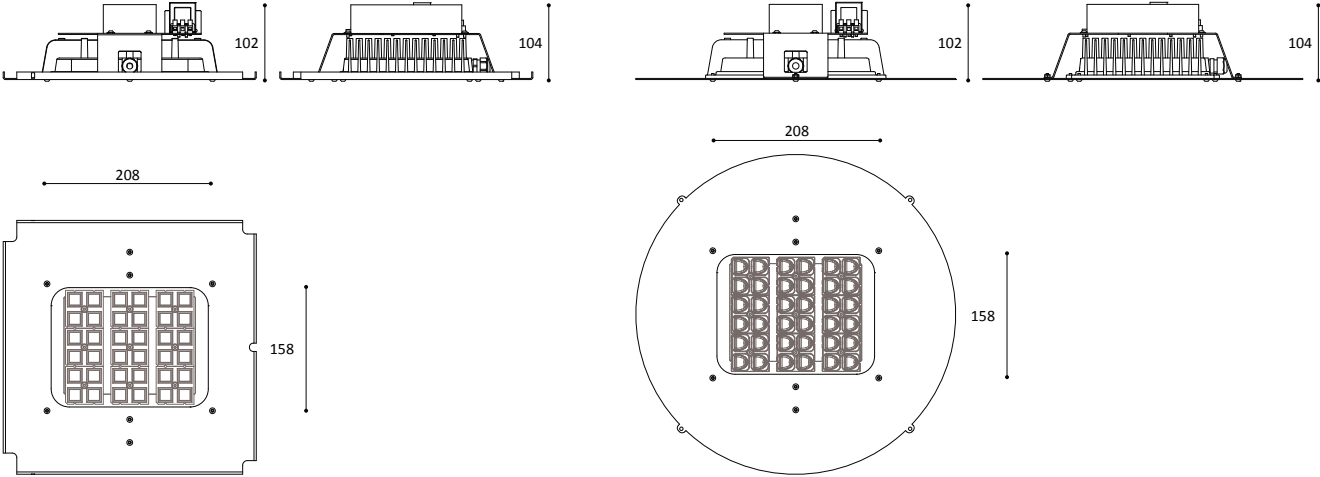
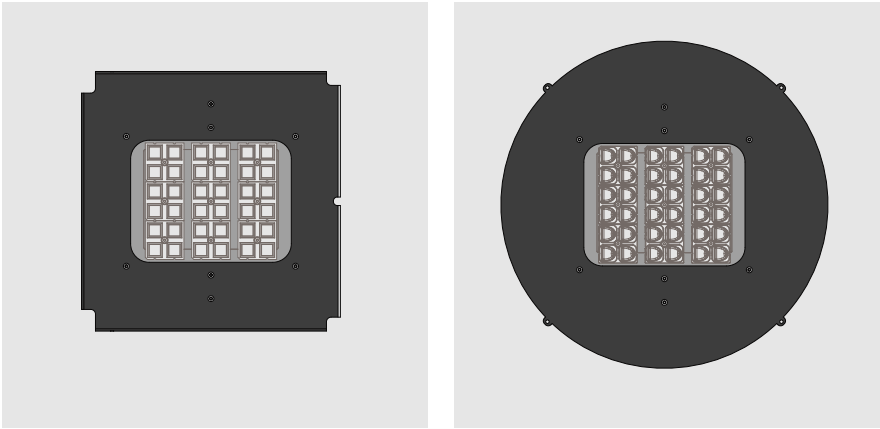
NUCLEO

Nucleo is a direct-light LED lighting device consisting of a die-cast aluminium heat sink and a metal plate, which can be personalised in terms of colour and the number of LEDs, which vary in relation to the arm structure and the area to be illuminated. The product is suitable for illuminating historic city centres with artistic devices.

Nucleo è un kit di illuminazione a luce diretta a LED, costituito da un dissipatore in alluminio pressofuso e da una piastra in metallo, personalizzabile sia per il colore che per il numero di LED a seconda dell'armatura e dell'area da illuminare. Prodotto adatto per l'illuminazione centri storici con apparecchi artistici.







Nucleo

Nucleo



NUCLEO

Versions / Varianti

LED lighting kit with round plate
LED lighting kit with square plate

Kit di illuminazione LED con piastra circolare
Kit di illuminazione LED con piastra quadrata

Physical features / Caratteristiche fisiche

Dimensions of the light fitting: see drawing.
Weight: approx. 3,3 kg (depending on the plate and the control gears).
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: vedi disegno
Peso: 3,3 kg ca. (in funzione della piastra e degli alimentatori)
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

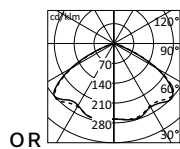
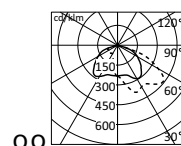
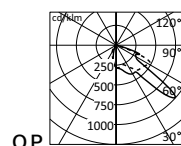
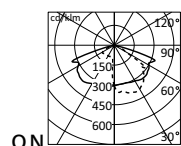
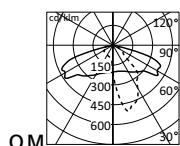
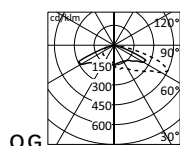
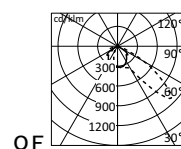
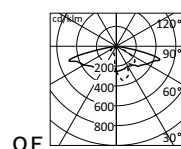
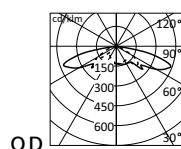
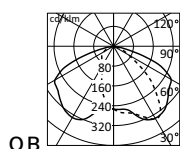
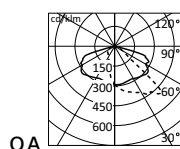
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



NUCLEO

Performance / Prestazioni

4000K CRI 70 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	156 lm/W	A9+ 2,09	8.290 lm	6.635 lm	156 lm/W	A9+ 2,09	10.950 lm	8.760 lm	156 lm/W	A9+ 2,09
OD	5.475 lm	3.885 lm	156 lm/W	A7+ 1,85	8.290 lm	5.845 lm	156 lm/W	A7+ 1,84	10.950 lm	7.775 lm	156 lm/W	A7+ 1,85
OE	5.475 lm	4.095 lm	156 lm/W	A8+ 1,95	8.290 lm	6.220 lm	156 lm/W	A8+ 1,96	10.950 lm	8.190 lm	156 lm/W	A8+ 1,95
OF	5.475 lm	4.485 lm	156 lm/W	A10+ 2,14	8.290 lm	6.800 lm	156 lm/W	A10+ 2,14	10.950 lm	8.970 lm	156 lm/W	A10+ 2,14
OG	5.475 lm	3.995 lm	156 lm/W	A8+ 1,90	8.290 lm	6.060 lm	156 lm/W	A8+ 1,91	10.950 lm	7.995 lm	156 lm/W	A8+ 1,90

3000K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.685 lm	3.750 lm	134 lm/W	A6+ 1,79	7.085 lm	5.670 lm	134 lm/W	A6+ 1,78	9.375 lm	7.500 lm	134 lm/W	A6+ 1,79
OD	4.685 lm	3.330 lm	134 lm/W	A4+ 1,59	7.085 lm	5.035 lm	134 lm/W	A4+ 1,58	9.375 lm	6.665 lm	134 lm/W	A4+ 1,59
OE	4.685 lm	3.480 lm	134 lm/W	A5+ 1,66	7.085 lm	5.270 lm	134 lm/W	A5+ 1,66	9.375 lm	6.975 lm	134 lm/W	A5+ 1,66
OF	4.685 lm	3.840 lm	134 lm/W	A7+ 1,83	7.085 lm	5.810 lm	134 lm/W	A7+ 1,83	9.375 lm	7.675 lm	134 lm/W	A7+ 1,83
OG	4.685 lm	3.425 lm	134 lm/W	A5+ 1,63	7.085 lm	5.180 lm	134 lm/W	A5+ 1,63	9.375 lm	6.840 lm	134 lm/W	A5+ 1,63

3000K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.375 lm	3.500 lm	125 lm/W	A5+ 1,67	6.610 lm	5.290 lm	125 lm/W	A5+ 1,66	8.750 lm	7.000 lm	125 lm/W	A5+ 1,67
OD	4.375 lm	3.105 lm	125 lm/W	A3+ 1,48	6.610 lm	4.665 lm	125 lm/W	A3+ 1,47	8.750 lm	6.210 lm	125 lm/W	A3+ 1,48
OE	4.375 lm	3.270 lm	125 lm/W	A4+ 1,56	6.610 lm	4.960 lm	125 lm/W	A4+ 1,56	8.750 lm	6.545 lm	125 lm/W	A4+ 1,56
OF	4.375 lm	3.585 lm	125 lm/W	A6+ 1,71	6.610 lm	5.425 lm	125 lm/W	A6+ 1,71	8.750 lm	7.165 lm	125 lm/W	A6+ 1,71
OG	4.375 lm	3.195 lm	125 lm/W	A4+ 1,52	6.610 lm	4.835 lm	125 lm/W	A4+ 1,52	8.750 lm	6.385 lm	125 lm/W	A4+ 1,52

2700K CRI 80 - 700mA - IP65 - IK08												
OPTICS	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.060 lm	3.250 lm	116 lm/W	A4+ 1,55	6.150 lm	4.920 lm	116 lm/W	A4+ 1,55	8.125 lm	6.500 lm	116 lm/W	A4+ 1,55
OD	4.060 lm	2.880 lm	116 lm/W	A++ 1,37	6.150 lm	4.350 lm	116 lm/W	A++ 1,37	8.125 lm	5.760 lm	116 lm/W	A++ 1,37
OE	4.060 lm	3.040 lm	116 lm/W	A3+ 1,45	6.150 lm	4.605 lm	116 lm/W	A3+ 1,45	8.125 lm	6.075 lm	116 lm/W	A3+ 1,45
OF	4.060 lm	3.325 lm	116 lm/W	A4+ 1,58	6.150 lm	5.035 lm	116 lm/W	A4+ 1,58	8.125 lm	6.655 lm	116 lm/W	A4+ 1,58
OG	4.060 lm	2.965 lm	116 lm/W	A3+ 1,41	6.150 lm	4.495 lm	116 lm/W	A3+ 1,41	8.125 lm	5.930 lm	116 lm/W	A3+ 1,41

*Parameterised efficiency index (IPEA) determined for field of application defined as "city center lighting with artistic luminaires". Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Nucleo is managed as a non-standard code.
Visit the website for further information.

Il prodotto Nucleo viene gestito come codice fuori standard.
Per maggiori informazioni visitare il sito.

STREET

130 — Tear Light
140 — Tear XL
152 — Clic Light M
160 — Clic Light S
168 — Wing Evo
180 — Boxer Round
188 — Boxer Street

TEAR LIGHT

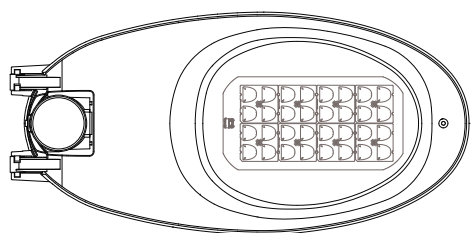
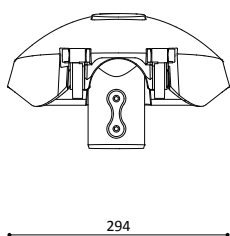
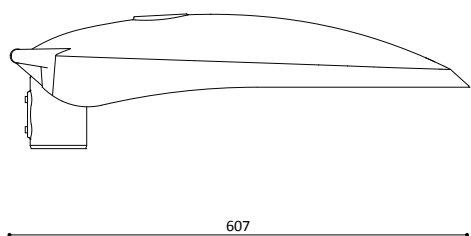
Tear Light is a direct-light LED lighting device consisting of a die-cast aluminium body 294 mm wide, 178 mm high and 607 mm long, weighing 8 kg. Pole-top mount for Ø 60 mm poles.

This product is suitable for urban decorative and street lighting purposes.

Tear Light è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di larghezza 294 mm, altezza 178 mm e lunghezza 607 mm, peso 8 kg. Attacco testa palo per pali Ø 60 mm. Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Tear Light



TEAR LIGHT

Versions / Varianti

Tear Light lamp

Lampada Tear Light

Physical features / Caratteristiche fisiche

Light fitting dimensions: 607 mm (L) x 294 mm (W) x 178 mm (H).
Weight: 8 kg.

Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 607 mm (L) x 294 mm (W) x 178 mm (H)
Peso: 8 kg

Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.

Driver: full-load efficiency > 90% - power factor > 0.97 -

life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.

Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.

Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 -
durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.

Tensione di rete: 230 Vac/50 Hz

Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.

A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.

Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70

4000K LED - CRI 70

MacAdam: 3-step

LED 3000K - CRI 70

LED 4000K - CRI 70

MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.

CUSTOM AUTO-DIM: personalised automatic dimming.

PLM: powerline modem.

RF: radio frequency remote control.

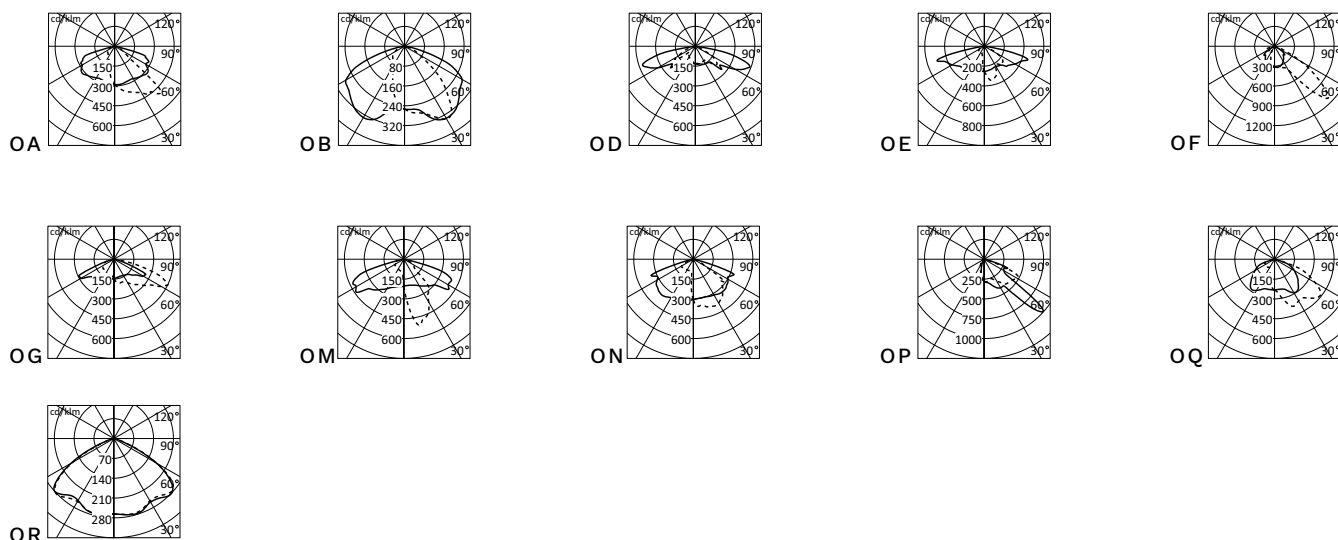
AUTO-DIM STANDARD: dimmerazione automatica standard

AUTO-DIM CUSTOM: dimmerazione automatica personalizzata

PLM: Power Line Modem ad onde convogliate

RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK08												
	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
OPTICS	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	156 lm/W	A6+ 1,71	8.290 lm	6.635 lm	156 lm/W	A6+ 1,71	10.950 lm	8.760 lm	156 lm/W	A5+ 1,67
OD	5.475 lm	3.885 lm	156 lm/W	A4+ 1,52	8.290 lm	5.845 lm	156 lm/W	A4+ 1,51	10.950 lm	7.775 lm	156 lm/W	A3+ 1,48
OE	5.475 lm	4.095 lm	156 lm/W	A5+ 1,60	8.290 lm	6.220 lm	156 lm/W	A5+ 1,61	10.950 lm	8.190 lm	156 lm/W	A4+ 1,56
OF	5.475 lm	4.485 lm	156 lm/W	A6+ 1,76	8.290 lm	6.800 lm	156 lm/W	A6+ 1,76	10.950 lm	8.970 lm	156 lm/W	A6+ 1,71
OG	5.475 lm	3.995 lm	156 lm/W	A4+ 1,56	8.290 lm	6.060 lm	156 lm/W	A4+ 1,57	10.950 lm	7.995 lm	156 lm/W	A4+ 1,52

	3000K CRI 70 - 700mA - IP66 - IK08											
	16 LED - 35 W				24 LED - 53 W				32 LED - 70 W			
OPTICS	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.685 lm	3.750 lm	134 lm/W	A3+ 1,47	7.085 lm	5.670 lm	134 lm/W	A3+ 1,47	9.375 lm	7.500 lm	134 lm/W	A3+ 1,43
OD	4.685 lm	3.330 lm	134 lm/W	A++ 1,30	7.085 lm	5.035 lm	134 lm/W	A++ 1,30	9.375 lm	6.665 lm	134 lm/W	A+ 1,27
OE	4.685 lm	3.480 lm	134 lm/W	A++ 1,36	7.085 lm	5.270 lm	134 lm/W	A++ 1,36	9.375 lm	6.975 lm	134 lm/W	A++ 1,33
OF	4.685 lm	3.840 lm	134 lm/W	A4+ 1,50	7.085 lm	5.810 lm	134 lm/W	A4+ 1,50	9.375 lm	7.675 lm	134 lm/W	A3+ 1,46
OG	4.685 lm	3.425 lm	134 lm/W	A++ 1,34	7.085 lm	5.180 lm	134 lm/W	A++ 1,34	9.375 lm	6.840 lm	134 lm/W	A++ 1,30

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

TEAR LIGHT

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.



The tilt angle can be adjusted as follows: +5°, -10°, -15°.

Possibilità di regolare l'inclinazione: +5°, -10°, -15°.



Pole-top mount with vertical and horizontal orientation.

Aggancio testa-palo con orientamento verticale e orizzontale.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9E01D16AXR35Q**

9E01	D	16	A	X	R	35	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9E01 = Tear Light	D = 4000K - 70	16=16	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	35 = 35 W (16L 700 mA)	Q = Standard
	B = 3000K - 70	24=24	B = OB		S = Class I / Not dimming / SPD	53 = 53 W (24L 700 mA)	R = Custom
		32=32	D = OD		O = Class II / Dimming / Varistore	70 = 70 W (32L 700 mA)	
			E = OE		M = Class II / Dimming / Varistore + Esdbox		
			F = OF		K = Class II / Dimming / SPD		
			G = OG		I = Class II / Dimming / SPD + Esdbox		
			M = OM		N = Class II / Not dimming / Varistore + Esdbox		
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

Compatibility with arms / Compatibilità con sbracci

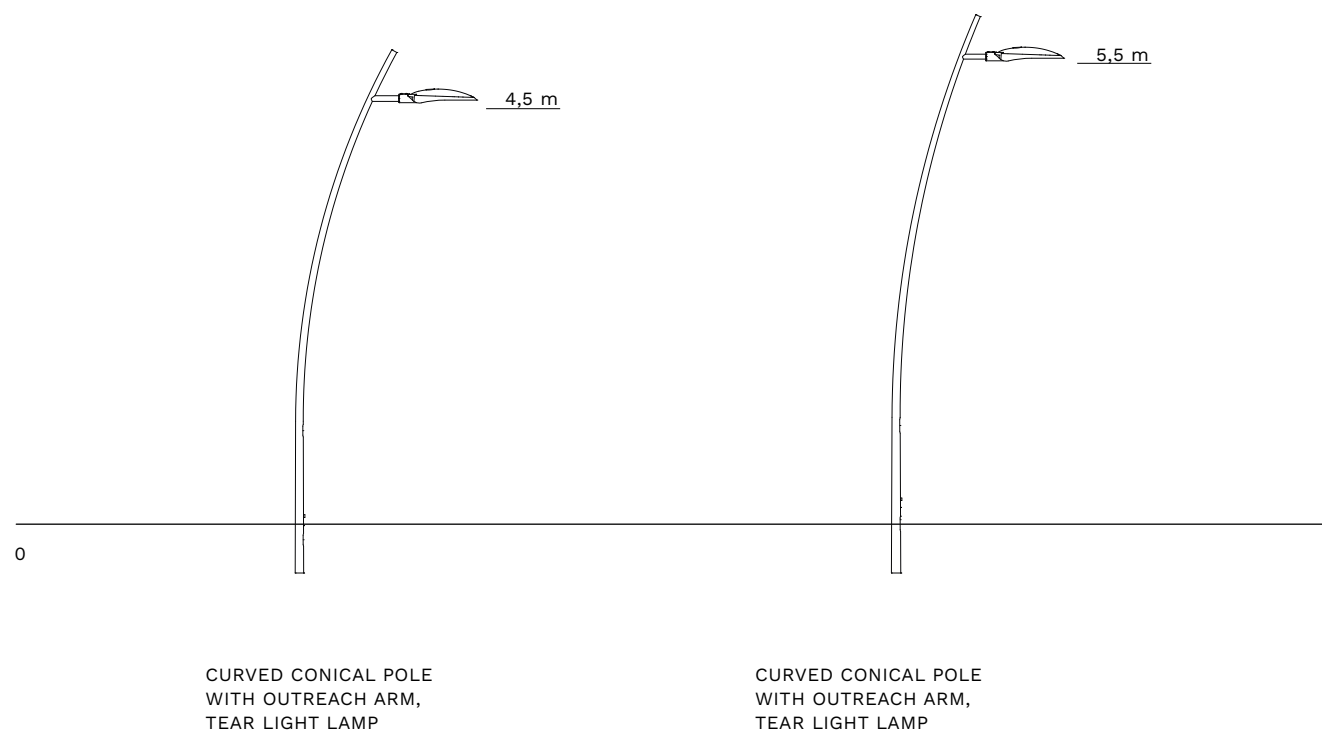
• Aris arm	• Sbraccio Aris
• Libra arm	• Sbraccio Libra
• Vela arm	• Sbraccio Vela
• Tema arm	• Sbraccio Tema
• Hindi arm	• Sbraccio Hindi
• Tear Light arm	• Sbraccio Tear Light
• Tear XL arm	• Sbraccio Tear XL
• Evo arm	• Sbraccio Evo

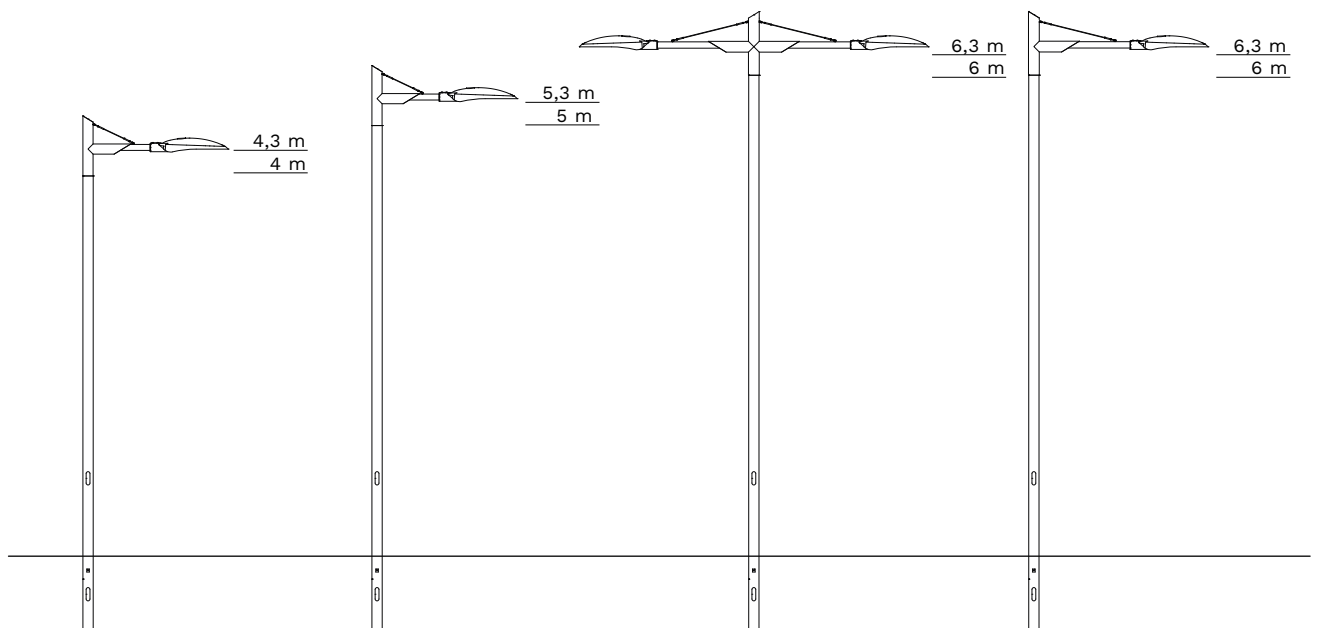
Compatibility with poles / Compatibilità con pali

• Straight conical pole Ø 60	• Palo conico dritto Ø 60
• Curved conical pole with Ø 60 arm	• Palo conico curvato con sbraccio Ø 60
• Double curved conical pole with Ø 60 arm	• Palo conico curvato doppio con sbraccio Ø 60
• Straight cylindrical pole with shank Ø 60	• Palo cilindrico dritto con codolo Ø 60
• Straight tapered flanged pole Ø 60	• Palo rastremato dritto flangiato Ø 60
• Straight tapered pole Ø 60	• Palo rastremato dritto Ø 60

TEAR LIGHT

Collection example / Esempio collezione





STRAIGHT CYLINDRICAL POLE,
TEAR LIGHT OUTREACH ARM,
TEAR LIGHT LAMP

STRAIGHT CYLINDRICAL POLE,
TEAR LIGHT OUTREACH ARM,
TEAR LIGHT LAMP

STRAIGHT CYLINDRICAL POLE,
TEAR XL DOUBLE OUTREACH ARM,
TEAR LIGHT LAMPS

STRAIGHT CYLINDRICAL POLE,
TEAR XL OUTREACH ARM,
TEAR LIGHT LAMP

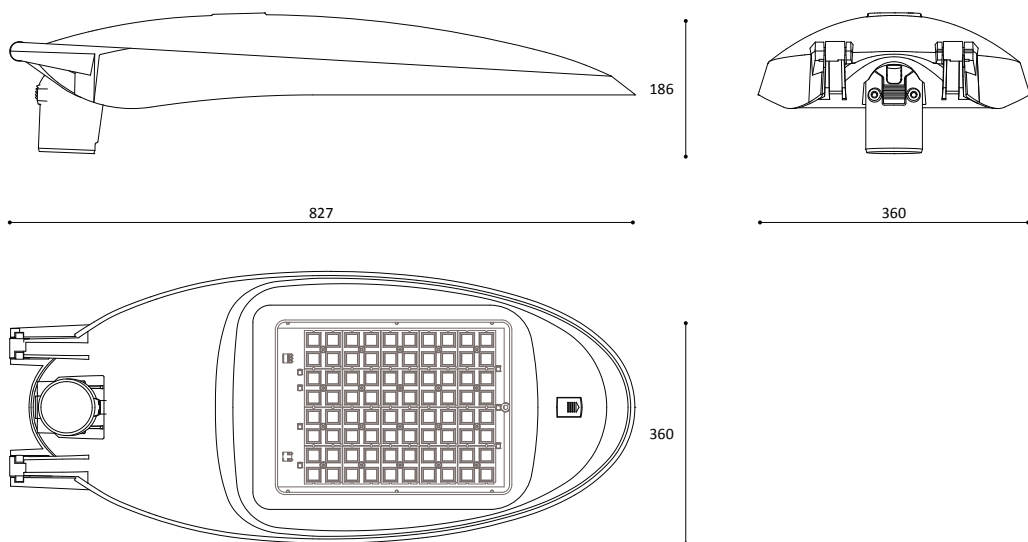
TEAR XL

Tear XL is a direct-light LED lighting device consisting of a die-cast aluminium body 360 mm wide, 150 mm high and 827 mm long, weighing 15 kg. Pole-top mount for Ø 60 mm poles. This product is suitable for urban decorative and street lighting purposes.

Tear XL è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di larghezza 360 mm, altezza 150 mm e lunghezza 827 mm, peso 15 kg. Attacco testa palo per pali Ø 60 mm. Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Tear XL



TEAR XL

Versions / Varianti

Tear XL lamp

Lampada Tear XL

Physical features / Caratteristiche fisiche

Light fitting dimensions: 827 mm (L) x 360 mm (W) x 150 mm (H).
Weight: 15 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 607 mm (L) x 294 mm (W) x 178 mm (H)
Peso: 8 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

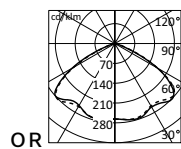
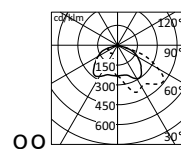
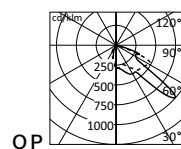
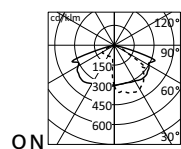
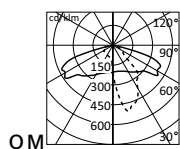
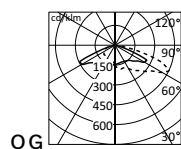
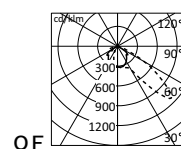
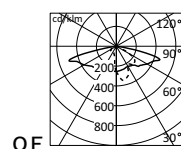
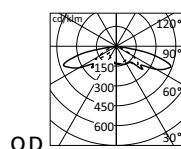
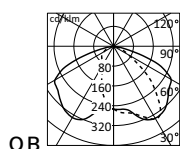
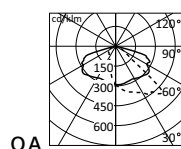
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK08												
OPTICS	48 LED - 106 W				64 LED - 141 W				80 LED - 171 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	16.580 lm	13.265 lm	156 lm/W	A4+ 1,51	22.055 lm	17.645 lm	156 lm/W	A++ 1,39	26.750 lm	21.400 lm	156 lm/W	A++ 1,39
OD	16.580 lm	11.685 lm	156 lm/W	A++ 1,33	22.055 lm	15.545 lm	156 lm/W	A+ 1,22	26.750 lm	18.850 lm	156 lm/W	A+ 1,22
OE	16.580 lm	12.445 lm	156 lm/W	A3+ 1,42	22.055 lm	16.570 lm	156 lm/W	A++ 1,31	26.750 lm	20.095 lm	156 lm/W	A++ 1,31
OF	16.580 lm	13.595 lm	156 lm/W	A4+ 1,55	22.055 lm	18.085 lm	156 lm/W	A3+ 1,42	26.750 lm	21.930 lm	156 lm/W	A3+ 1,42
OG	16.580 lm	12.115 lm	156 lm/W	A++ 1,38	22.055 lm	16.115 lm	156 lm/W	A+ 1,27	26.750 lm	19.545 lm	156 lm/W	A+ 1,27

4000K CRI 70 - 525mA - IP66 - IK08												
OPTICS	48 LED - 106 W				64 LED - 141 W				80 LED - 171 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	13.105 lm	10.485 lm	162 lm/W	A6+ 1,73	17.475 lm	13.980 lm	162 lm/W	A4+ 1,56	21.840 lm	17.475 lm	162 lm/W	A3+ 1,44
OD	13.105 lm	9.235 lm	162 lm/W	A4+ 1,52	17.475 lm	12.315 lm	162 lm/W	A++ 1,37	21.840 lm	15.395 lm	162 lm/W	A+ 1,27
OE	13.105 lm	9.845 lm	162 lm/W	A5+ 1,62	17.475 lm	13.125 lm	162 lm/W	A3+ 1,46	21.840 lm	16.410 lm	162 lm/W	A++ 1,35
OF	13.105 lm	10.745 lm	162 lm/W	A6+ 1,77	17.475 lm	14.330 lm	162 lm/W	A4+ 1,60	21.840 lm	17.910 lm	162 lm/W	A3+ 1,47
OG	13.105 lm	9.575 lm	162 lm/W	A4+ 1,58	17.475 lm	12.770 lm	162 lm/W	A3+ 1,42	21.840 lm	15.960 lm	162 lm/W	A++ 1,31

3000K CRI 70 - 700mA - IP66 - IK08												
OPTICS	48 LED - 106 W				64 LED - 141 W				80 LED - 171 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	14.165 lm	11.335 lm	134 lm/W	A+ 1,28	18.880 lm	15.105 lm	134 lm/W	A 1,19	22.870 lm	18.295 lm	134 lm/W	A 1,19
OD	14.165 lm	10.065 lm	134 lm/W	A 1,14	18.880 lm	13.415 lm	134 lm/W	B 1,06	22.870 lm	16.245 lm	134 lm/W	B 1,06
OE	14.165 lm	10.520 lm	134 lm/W	A+ 1,20	18.880 lm	14.015 lm	134 lm/W	A 1,10	22.870 lm	16.980 lm	134 lm/W	A 1,10
OF	14.165 lm	11.605 lm	134 lm/W	A++ 1,32	18.880 lm	15.470 lm	134 lm/W	A+ 1,22	22.870 lm	18.735 lm	134 lm/W	A+ 1,22
OG	14.165 lm	10.355 lm	134 lm/W	A 1,18	18.880 lm	13.795 lm	134 lm/W	B 1,09	22.870 lm	16.710 lm	134 lm/W	B 1,09

3000K CRI 70 - 525mA - IP66 - IK08												
OPTICS	48 LED - 106 W				64 LED - 141 W				80 LED - 171 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	11.200 lm	8.960 lm	138 lm/W	A3+ 1,47	14.960 lm	11.970 lm	139 lm/W	A++ 1,34	18.675 lm	14.940 lm	138 lm/W	A+ 1,23
OD	11.200 lm	7.955 lm	138 lm/W	A++ 1,31	14.960 lm	10.630 lm	139 lm/W	A 1,19	18.675 lm	13.265 lm	138 lm/W	B 1,09
OE	11.200 lm	8.315 lm	138 lm/W	A++ 1,37	14.960 lm	11.110 lm	139 lm/W	A+ 1,24	18.675 lm	13.865 lm	138 lm/W	A 1,14
OF	11.200 lm	9.175 lm	138 lm/W	A4+ 1,51	14.960 lm	12.255 lm	139 lm/W	A++ 1,37	18.675 lm	15.300 lm	138 lm/W	A+ 1,26
OG	11.200 lm	8.185 lm	138 lm/W	A++ 1,35	14.960 lm	10.935 lm	139 lm/W	A+ 1,22	18.675 lm	13.645 lm	138 lm/W	A 1,12

*Parameterised efficiency index (IPEA) determined for field of application defined as “street lighting”.
Efficiency valye refers to LED rated luminous flux at 25°
The values specified on this datasheet are rated values with a tolerance of ± 5%.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer’s datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.



The tilt angle can be adjusted as follows: $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$.

Possibilità di regolare l'inclinazione: $\pm 5^\circ$, $\pm 10^\circ$, $\pm 15^\circ$.



Pole-top mount with vertical and horizontal orientation.

Aggancio testa-palo con orientamento verticale e orizzontale.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

TEAR XL

Codes / Codici

Example code: 9100D48AXRA6Q

9100	D	48	A	X	R	A6	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9100 = Tear XL	D = 4000K - 70	48=48	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	A6 = 106 W (48L 700 mA)	Q = Standard
	B = 3000K - 70	64=64	B = OB		S = Class I / Not dimming / SPD	E1 = 141 W (64L 700 mA)	R = Custom
		80=80	D = OD		O = Class II / Dimming / Varistore	H1 = 171 W (80L 700 mA)	
			E = OE		M = Class II / Dimming / Varistore + Esdbox		
			F = OF		K = Class II / Dimming / SPD	81 = 81 W (48L 525 mA)	
			G = OG		I = Class II / Dimming / SPD + Esdbox	A8 = 108 W (64L 525 mA)	
			M = OM		N = Class II / Not dimming / Varistore + Esdbox	H1 = 135 W (80L 525 mA)	
			N = ON		J = Class II / Not dimming / SPD		
			P = OP		L = Class II / Not dimming / SPD + Esdbox		
			Q = OQ				
			R = OR				

Compatibility with arms / Compatibilità con sbracci

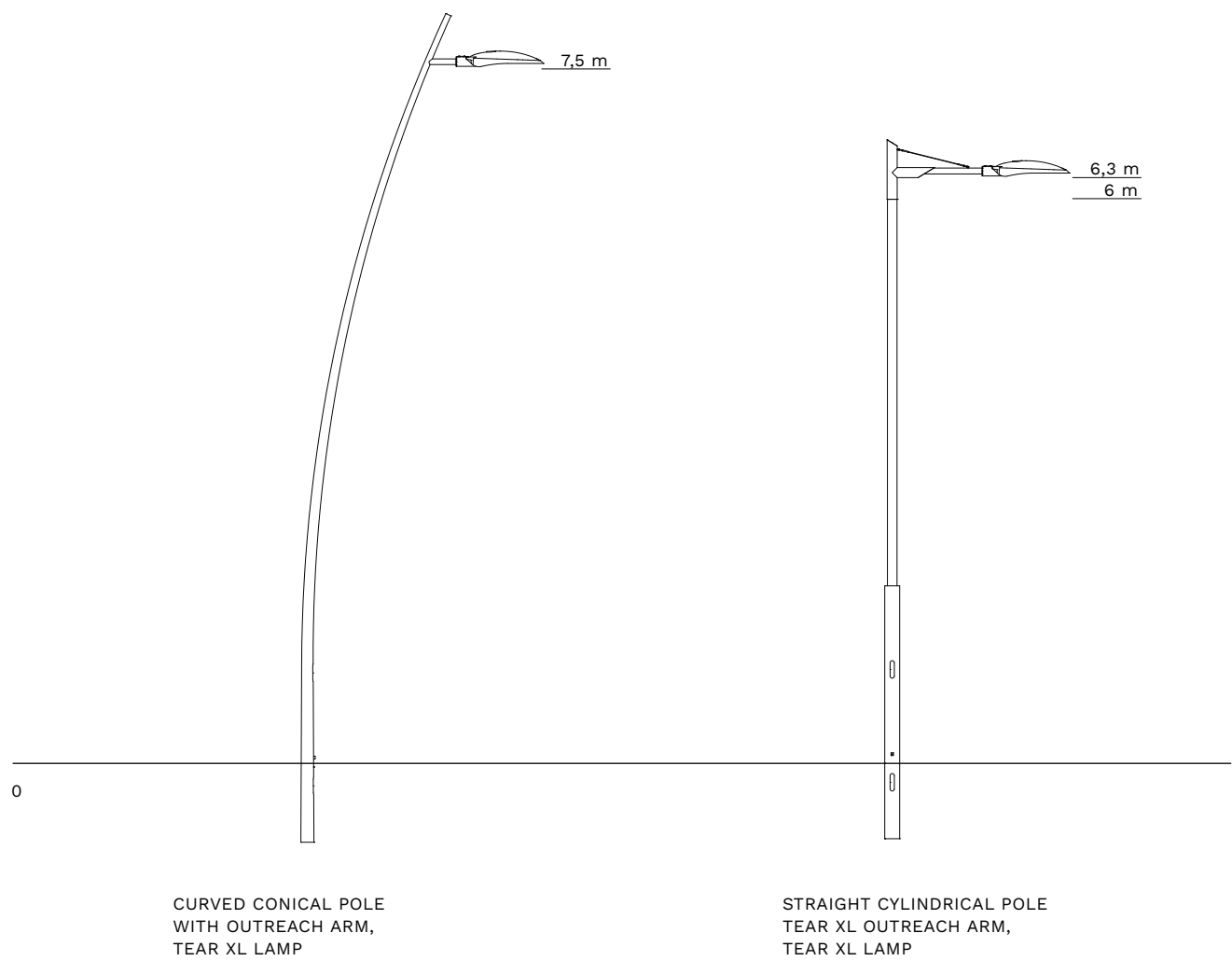
• Aris arm	• Sbraccio Aris
• Libra arm	• Sbraccio Libra
• Vela arm	• Sbraccio Vela
• Tema arm	• Sbraccio Tema
• Hindi arm	• Sbraccio Hindi
• Tear Light arm	• Sbraccio Tear Light
• Tear XL arm	• Sbraccio Tear XL
• Evo arm	• Sbraccio Evo

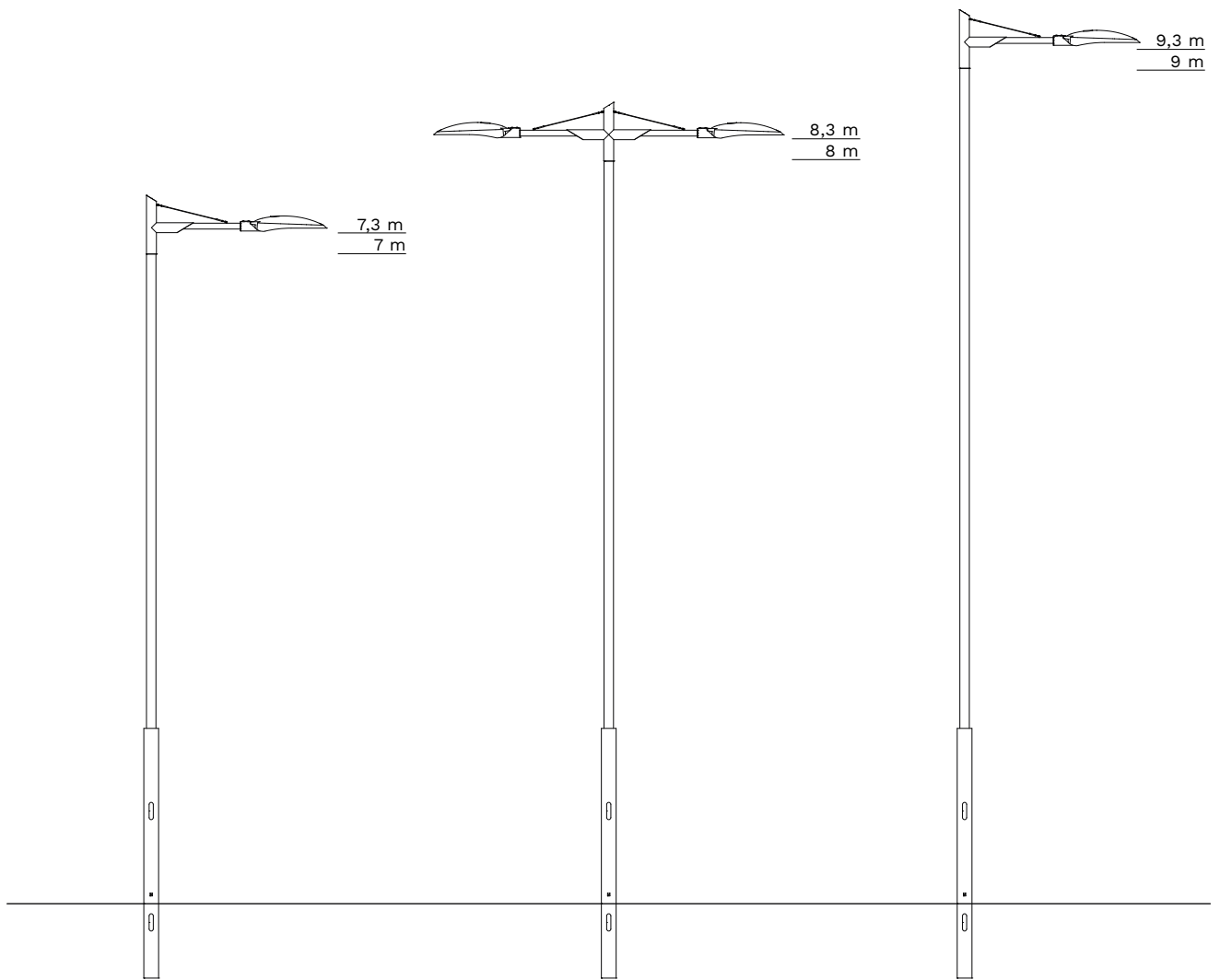
Compatibility with poles / Compatibilità con pali

• Straight conical pole Ø 60	• Palo conico dritto Ø 60
• Curved conical pole with Ø 60 arm	• Palo conico curvato con sbraccio Ø 60
• Double curved conical pole with Ø 60 arm	• Palo conico curvato doppio con sbraccio Ø 60
• Straight cylindrical pole with shank Ø 60	• Palo cilindrico dritto con codolo Ø 60
• Straight tapered flanged pole Ø 60	• Palo rastremato dritto flangiato Ø 60
• Straight tapered pole Ø 60	• Palo rastremato dritto Ø 60

TEAR XL

Collection example / Esempio collezione





STRAIGHT TAPERED POLE
TEAR XL OUTREACH ARM,
TEAR XL LAMP

STRAIGHT TAPERED POLE
TEAR XL DOUBLE OUTREACH ARM,
TEAR XL LAMPS

STRAIGHT TAPERED POLE
TEAR XL OUTREACH ARM,
TEAR XL LAMP

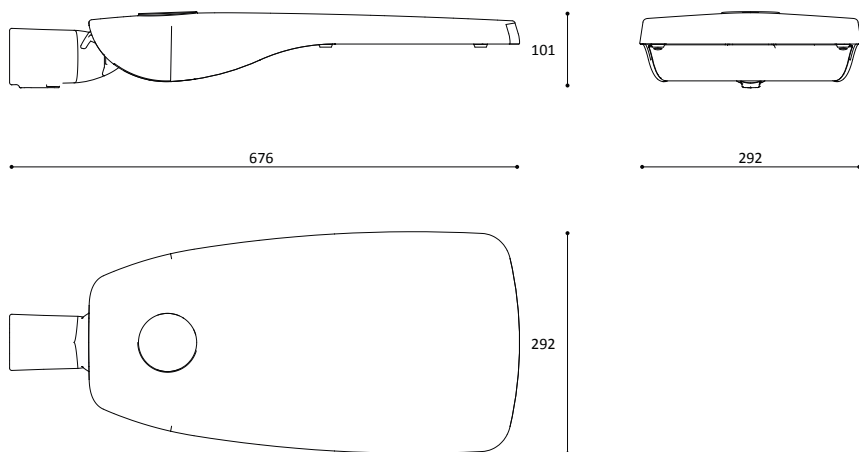
CLIC LIGHT M

Clic Light M is a direct-light LED lighting device consisting of a die-cast aluminium body 292 mm wide, 101 mm high and 675 mm long, weighing 7 kg.
Pole-top mount for Ø 60 mm poles.
This product is suitable for urban decorative and street lighting purposes.

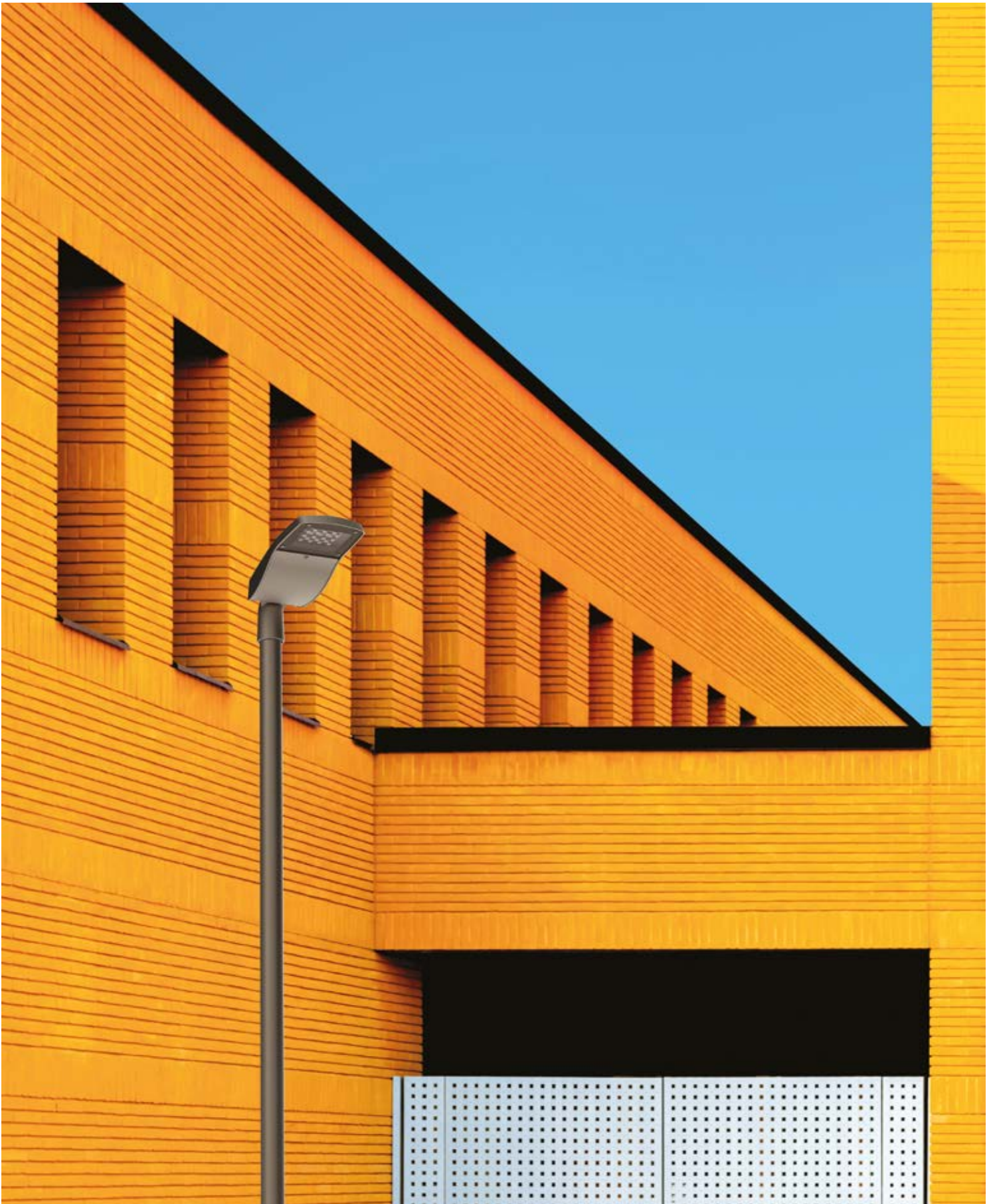
Clic Light M è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di larghezza 292 mm, altezza 101 mm e lunghezza 675 mm, peso 7 kg.
Attacco testa palo per pali Ø 60 mm.
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Clic Light M



CLIC LIGHT M

Versions / Varianti

Clic Light M lamp

Lampada Clic Light M

Physical features / Caratteristiche fisiche

Light fitting dimensions: 675 mm (L) x 292 mm (W) x 101 mm (H).
Weight: 7 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 675 mm (L) x 292 mm (W) x 101 mm (H)
Peso: 7 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

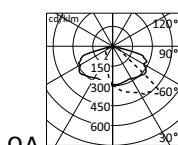
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

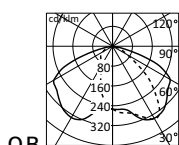
STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

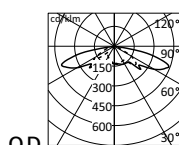
Optics / Ottiche



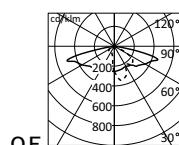
OA



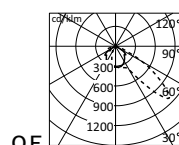
OB



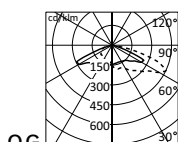
OD



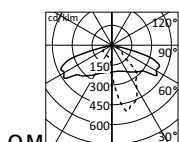
OE



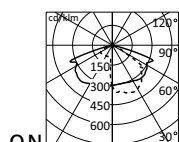
OF



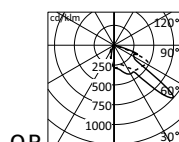
OG



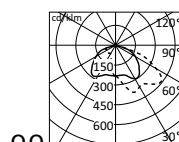
OM



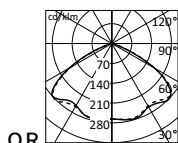
ON



OP



OQ



OR

Performance / Prestazioni

4000K CRI 70 - IP66 - IK08

OPTICS	24 LED - 700 mA - 52 W				24 LED - 1000 mA - 78 W				36 LED - 700 mA - 77,5 W				48 LED - 700 mA - 103,5 W			
	RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX	
OA, OB, OM, ON, OP, OQ, OR	8.680 lm	6.945 lm	167 lm/W	A7+ 1,83	11.305 lm	9.045 lm	145 lm/W	A4+ 1,55	13.015 lm	10.415 lm	168 lm/W	A6+ 1,79	17.360 lm	13.890 lm	168 lm/W	A5+ 1,62
OD	8.680 lm	6.120 lm	167 lm/W	A5+ 1,61	11.305 lm	7.970 lm	145 lm/W	A++ 1,36	13.015 lm	9.175 lm	168 lm/W	A4+ 1,58	17.360 lm	12.235 lm	168 lm/W	A3+ 1,42
OE	8.680 lm	6.520 lm	167 lm/W	A6+ 1,72	11.305 lm	8.490 lm	145 lm/W	A3+ 1,45	13.015 lm	9.780 lm	168 lm/W	A5+ 1,68	17.360 lm	13.040 lm	168 lm/W	A4+ 1,52
OF	8.680 lm	7.115 lm	167 lm/W	A7+ 1,87	11.305 lm	9.265 lm	145 lm/W	A4+ 1,58	13.015 lm	10.675 lm	168 lm/W	A7+ 1,84	17.360 lm	14.235 lm	168 lm/W	A5+ 1,66
OG	8.680 lm	6.345 lm	167 lm/W	A5+ 1,67	11.305 lm	8.265 lm	145 lm/W	A3+ 1,41	13.015 lm	9.510 lm	168 lm/W	A5+ 1,64	17.360 lm	12.685 lm	168 lm/W	A3+ 1,48

3000K CRI 70 - IP66 - IK08

OPTICS	24 LED - 700 mA - 52 W				24 LED - 1000 mA - 78 W				36 LED - 700 mA - 77,5 W				48 LED - 700 mA - 103,5 W			
	RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX	
OA, OB, OM, ON, OP, OQ, OR	7.600 lm	6.080 lm	146 lm/W	A5+ 1,60	9.900 lm	7.920 lm	127 lm/W	A++ 1,35	11.325 lm	9.060 lm	146 lm/W	A4+ 1,56	15.125 lm	12.100 lm	146 lm/W	A3+ 1,41
OD	7.600 lm	5.400 lm	146 lm/W	A3+ 1,42	9.900 lm	7.035 lm	127 lm/W	A+ 1,20	11.325 lm	8.045 lm	146 lm/W	A++ 1,38	15.125 lm	10.745 lm	146 lm/W	A+ 1,25
OE	7.600 lm	5.640 lm	146 lm/W	A3+ 1,49	9.900 lm	7.345 lm	127 lm/W	A+ 1,26	11.325 lm	8.410 lm	146 lm/W	A3+ 1,45	15.125 lm	11.230 lm	146 lm/W	A++ 1,31
OF	7.600 lm	6.225 lm	146 lm/W	A5+ 1,64	9.900 lm	8.110 lm	127 lm/W	A++ 1,39	11.325 lm	9.275 lm	146 lm/W	A4+ 1,60	15.125 lm	12.390 lm	146 lm/W	A3+ 1,44
OG	7.600 lm	5.555 lm	146 lm/W	A3+ 1,46	9.900 lm	7.235 lm	127 lm/W	A+ 1,24	11.325 lm	8.275 lm	146 lm/W	A3+ 1,42	15.125 lm	11.050 lm	146 lm/W	A+ 1,29

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

CLIC LIGHT M

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9S20D24AXR52V**

9S20	D	24	A	X	R	52	V
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9S20 = Clic Light M	D = 4000K - 70	24=24	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	52 = 52 W (24L 700 mA)	Without the last letter = Standard
	B = 3000K - 70	36=36	B = OB		S = Class I / Not dimming / SPD	78 = 78 W (24L 1000 mA)	
		48=48	D = OD		T = Class II / Dimming	77 = 77,5 W (36L 700 mA)	V = Custom
			E = OE		H = Class II / Not dimming	A3 = 103,5 W (48L 700 mA)	
			F = OF				
			G = OG				
			M = OM				
			N = ON				
			P = OP				
			Q = OQ				
			R = OR				

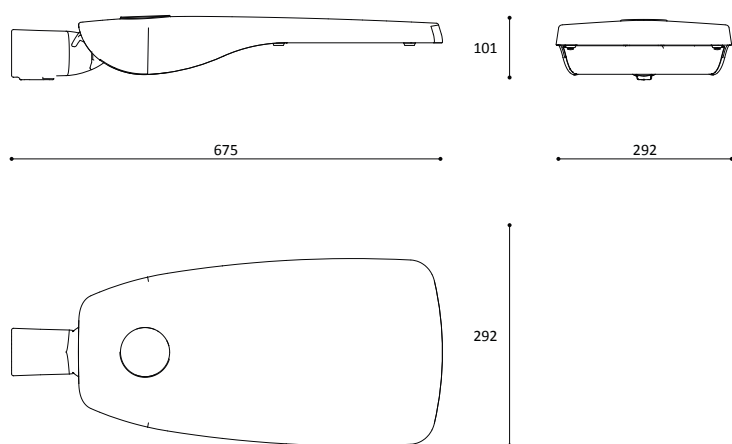
CLIC LIGHT S

Clic Light S is a direct-light LED lighting device consisting of a die-cast aluminium body 180 mm wide, 100 mm high and 570 mm long, weighing 6 kg.
Pole-top mount for Ø 60 mm poles.
This product is suitable for urban decorative and street lighting purposes.

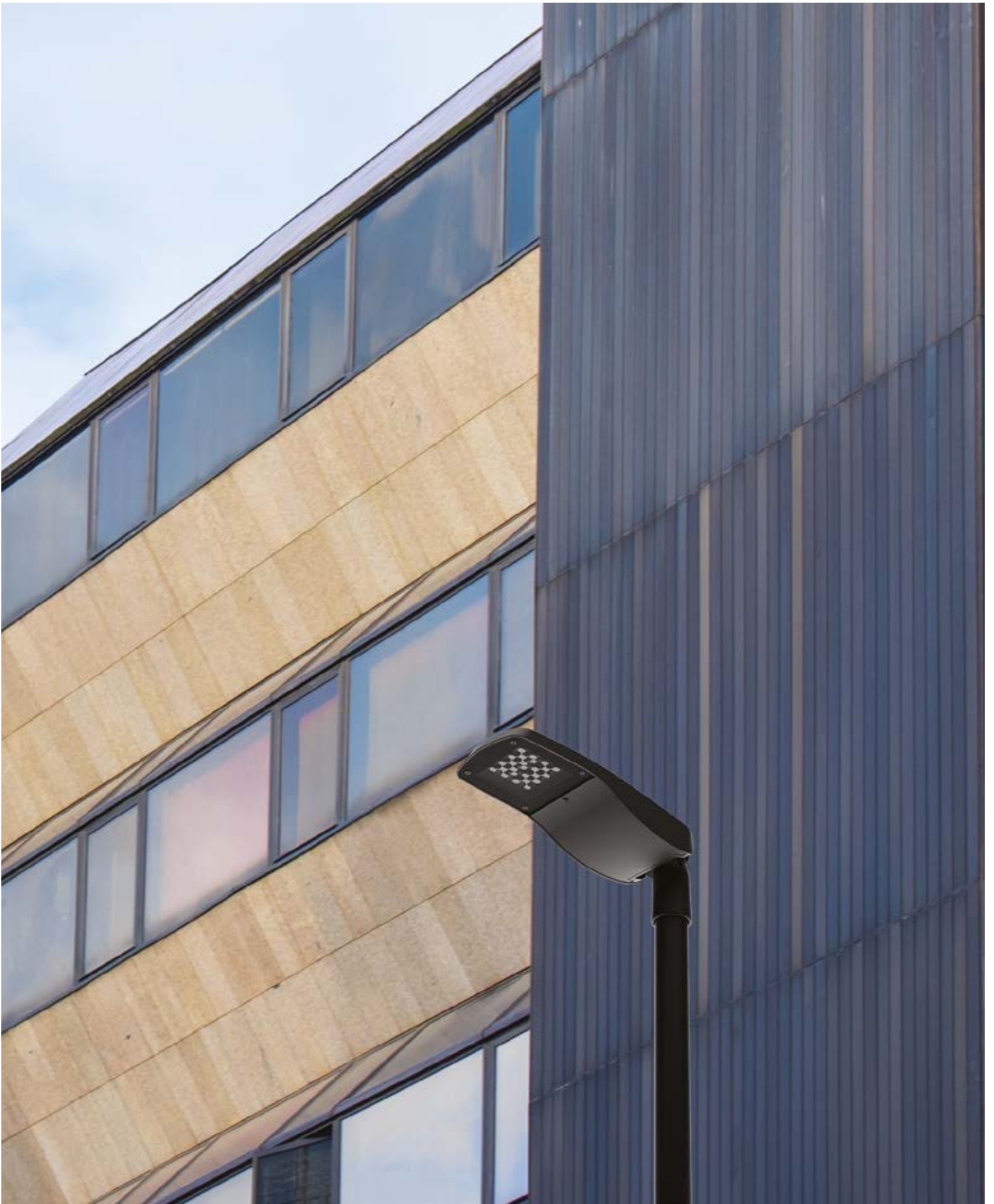
Clic Light S è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di larghezza 180 mm, altezza 100 mm e lunghezza 570 mm, peso 6 kg.
Attacco testa palo per pali Ø 60 mm.
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Clic Light S



CLIC LIGHT S

Versions / Varianti

Clic Light S lamp

Lampada Clic Light S

Physical features / Caratteristiche fisiche

Light fitting dimensions: 570 mm (L) x 180 mm (W) x 100 mm (H).
Weight: 6 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 570 mm (L) x 180 mm (W) x 100 mm (H)
Peso: 6 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

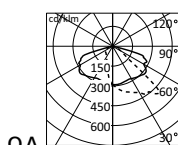
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

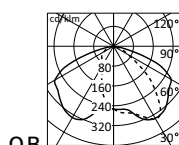
STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

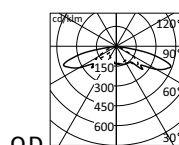
Optics / Ottiche



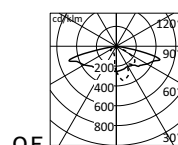
OA



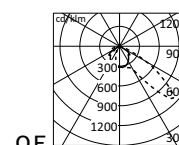
OB



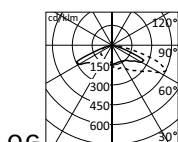
OD



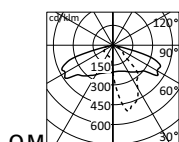
OE



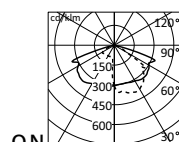
OF



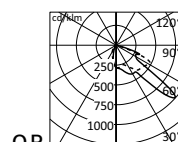
OG



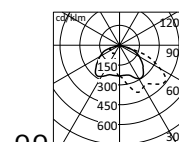
OM



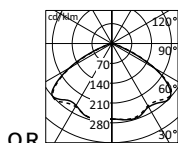
ON



OP



OQ



OR

Performance / Prestazioni

4000K CRI 70 - IP66 - IK08

OPTICS	8 LED - 700 mA - 17 W				8 LED - 1000 mA - 26 W				16 LED - 700 mA - 34,5 W				16 LED - 1000 mA - 52 W			
	RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX	
OA, OB, OM, ON, OP, OQ, OR	2.890 lm	2.315 lm	170 lm/W	A7+ 1,87	3.765 lm	3.015 lm	145 lm/W	A4+ 1,59	5.785 lm	4.630 lm	168 lm/W	A7+ 1,84	7.535 lm	6.030 lm	145 lm/W	A4+ 1,59
OD	2.890 lm	2.055 lm	170 lm/W	A5+ 1,66	3.765 lm	2.675 lm	145 lm/W	A3+ 1,41	5.785 lm	4.105 lm	168 lm/W	A5+ 1,63	7.535 lm	5.345 lm	145 lm/W	A3+ 1,41
OE	2.890 lm	2.165 lm	170 lm/W	A6+ 1,74	3.765 lm	2.820 lm	145 lm/W	A3+ 1,49	5.785 lm	4.330 lm	168 lm/W	A6+ 1,72	7.535 lm	5.640 lm	145 lm/W	A3+ 1,49
OF	2.890 lm	2.370 lm	170 lm/W	A8+ 1,91	3.765 lm	3.085 lm	145 lm/W	A5+ 1,63	5.785 lm	4.740 lm	168 lm/W	A7+ 1,88	7.535 lm	6.175 lm	145 lm/W	A5+ 1,63
OG	2.890 lm	2.115 lm	170 lm/W	A6+ 1,70	3.765 lm	2.755 lm	145 lm/W	A3+ 1,45	5.785 lm	4.225 lm	168 lm/W	A5+ 1,68	7.535 lm	5.505 lm	145 lm/W	A3+ 1,45

3000K CRI 70 - IP66 - IK08

OPTICS	8 LED - 700 mA - 17 W				8 LED - 1000 mA - 26 W				16 LED - 700 mA - 34,5 W				16 LED - 1000 mA - 52 W			
	RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX		RATED FLUX	LUMINAIRE EFFICIENCY	IPEA* INDEX	
OA, OB, OM, ON, OP, OQ, OR	2.460 lm	1.970 lm	145 lm/W	A4+ 1,59	3.210 lm	2.570 lm	123 lm/W	A++ 1,35	4.930 lm	3.945 lm	143 lm/W	A4+ 1,57	6.425 lm	5.140 lm	124 lm/W	A++ 1,35
OD	2.460 lm	1.750 lm	145 lm/W	A3+ 1,41	3.210 lm	2.280 lm	123 lm/W	A+ 1,20	4.930 lm	3.500 lm	143 lm/W	A++ 1,39	6.425 lm	4.555 lm	124 lm/W	A 1,20
OE	2.460 lm	1.845 lm	145 lm/W	A3+ 1,49	3.210 lm	2.400 lm	123 lm/W	A+ 1,26	4.930 lm	3.690 lm	143 lm/W	A3+ 1,47	6.425 lm	4.805 lm	124 lm/W	A+ 1,27
OF	2.460 lm	2.020 lm	145 lm/W	A5+ 1,63	3.210 lm	2.630 lm	123 lm/W	A++ 1,39	4.930 lm	4.040 lm	143 lm/W	A5+ 1,60	6.425 lm	5.260 lm	124 lm/W	A++ 1,39
OG	2.460 lm	1.800 lm	145 lm/W	A3+ 1,45	3.210 lm	2.345 lm	123 lm/W	A+ 1,24	4.930 lm	3.600 lm	143 lm/W	A3+ 1,43	6.425 lm	4.690 lm	124 lm/W	A+ 1,24

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.

Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

CLIC LIGHT S

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certifications: CE, RoHS.

Normative: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.

Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

Example code: **9S00D08AXR17V**

9S00	D	08	A	X	R	17	V
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9S00 = Clic Light S	D = 4000K - 70	08=8	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	17 = 17 W (8L 700 mA)	Without the last letter = Standard
	B = 3000K - 70	16=16	B = OB		S = Class I / Not dimming / SPD	26 = 26 W (8L 1000 mA)	
			D = OD		T = Class II / Dimming	34 = 34,5 W (16L 700 mA)	V = Custom
			E = OE		H = Class II / Not dimming	52 = 52 W (16L 1000 mA)	
			F = OF				
			G = OG				
			M = OM				
			N = ON				
			P = OP				
			Q = OQ				
			R = OR				

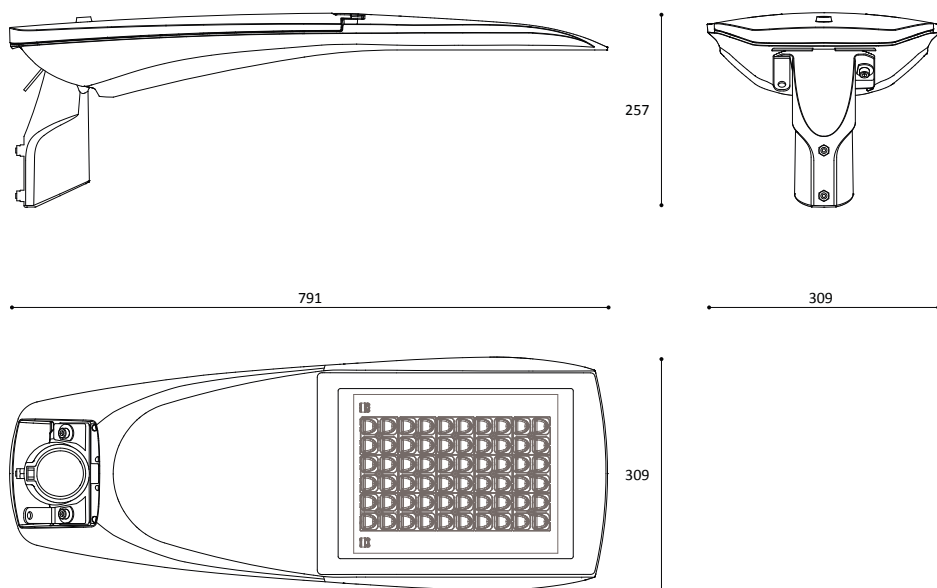
WING EVO

Wing Evo is a direct-light LED lighting device consisting of a die-cast aluminium body 309 mm wide, 257 mm high and 791 mm long, weighing 10 kg.
Pole-top mount for Ø 60 mm poles.
This product is suitable for urban decorative and street lighting purposes.

Wing Evo è un apparecchio di illuminazione a luce diretta a LED costituito da un corpo in pressofusione di alluminio di larghezza 309 mm, altezza 257 mm e lunghezza 791 mm, peso 10 kg.
Attacco testa palo per pali Ø 60 mm.
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Wing Evo



WING EVO

Versions / Varianti

Wing Evo lamp

Lampada Wing Evo

Physical features / Caratteristiche fisiche

Light fitting dimensions: 791 mm (L) x 309 mm (W) x 257 mm (H).
Weight: 10 kg.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni corpo illuminante: 791 mm (L) x 309 mm (W) x 257 mm (H)
Peso: 10 kg
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Driver: full-load efficiency > 90% - power factor > 0.97 - life span > 85.000 h - temperature stabilisation: NTC sensor.
Mains voltage: 230 Vac/50 Hz.
Insulation class II. On request the product can be made with Insulation Class I.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=25°C.
Driver: efficienza a pieno carico > 90% - fattore di potenza > 0.97 - durata vita > 85.000 h - stabilizzazione temperatura: sensore NTC.
Tensione di rete: 230 Vac/50 Hz
Classe di isolamento II. A richiesta il prodotto può essere realizzato in classe I.

Power supply / Alimentazione

FULL PROG. control gear, protection up to 10 kV, 4 dimming steps, based on virtual midnight and with PFC function, with a power factor of 97%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I insulation, and from 8 kV to 10 kV with Class II insulation.

Alimentatore FULL PROG., protezione fino a 10 kV, 4 step di dimmerazione, basata sulla mezzanotte virtuale e di funzione PFC, con un power factor del 97%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I di isolamento, e da 8 kV a 10 kV in classe II.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step
On request 2700K

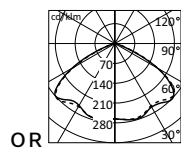
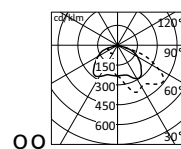
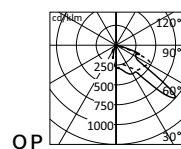
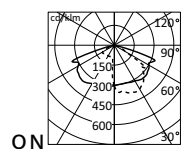
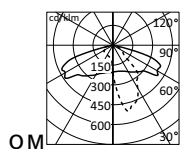
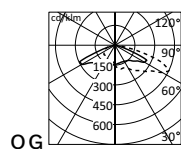
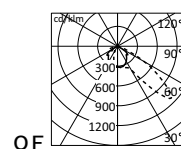
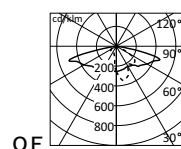
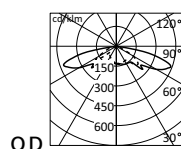
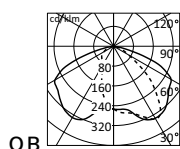
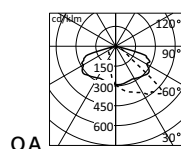
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3
A richiesta 2700K

Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.
PLM: powerline modem.
RF: radio frequency remote control.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata
PLM: Power Line Modem ad onde convogliate
RF: Telecontrollo a Radio Frequenza

Optics / Ottiche



WING EVO

Performance / Prestazioni

4000K CRI 70 - 700mA - IP66 - IK09																
24 LED - 52 W				36 LED - 77,5 W				48 LED - 103,5 W				60 LED - 129,5 W				OPTICS
RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	
8.680 lm	6.945 lm	167 lm/W	A7+ 1,83	13.015 lm	10.415 lm	168 lm/W	A6+ 1,79	17.360 lm	13.890 lm	168 lm/W	A++ 1,79	21.700 lm	17.360 lm	168 lm/W	A++ 1,65	OA, OB, OM, ON, OP, OQ, OR
8.680 lm	6.120 lm	167 lm/W	A5+ 1,61	13.015 lm	9.175 lm	168 lm/W	A4+ 1,58	17.360 lm	12.235 lm	168 lm/W	A++ 1,58	21.700 lm	15.295 lm	168 lm/W	A++ 1,46	OD
8.680 lm	6.520 lm	167 lm/W	A6+ 1,72	13.015 lm	9.780 lm	168 lm/W	A5+ 1,68	17.360 lm	13.040 lm	168 lm/W	A++ 1,68	21.700 lm	16.300 lm	168 lm/W	A++ 1,55	OE
8.680 lm	7.115 lm	167 lm/W	A7+ 1,87	13.015 lm	10.675 lm	168 lm/W	A7+ 1,84	17.360 lm	14.235 lm	168 lm/W	A++ 1,83	21.700 lm	17.790 lm	168 lm/W	A++ 1,70	OF
8.680 lm	6.345 lm	167 lm/W	A5+ 1,67	13.015 lm	9.510 lm	168 lm/W	A5+ 1,64	17.360 lm	12.865 lm	168 lm/W	A++ 1,63	21.700 lm	15.855 lm	168 lm/W	A++ 1,51	OG

4000K CRI 70 - 525mA - IP66 - IK09																
24 LED - 38,5 W				36 LED - 58 W				48 LED - 77,5 W				60 LED - 97 W				OPTICS
RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	
6.900 lm	5.520 lm	179 lm/W	A8+ 1,96	10.380 lm	8.305 lm	179 lm/W	A8+ 1,96	13.840 lm	11.075 lm	179 lm/W	A5+ 1,62	17.305 lm	13.845 lm	178 lm/W	A3+ 1,49	OA, OB, OM, ON, OP, OQ, OR
6.900 lm	4.865 lm	179 lm/W	A6+ 1,73	10.380 lm	7.315 lm	179 lm/W	A6+ 1,73	13.840 lm	9.755 lm	179 lm/W	A3+ 1,42	17.305 lm	12.195 lm	178 lm/W	A++ 1,31	OD
6.900 lm	5.185 lm	179 lm/W	A7+ 1,84	10.380 lm	7.800 lm	179 lm/W	A7+ 1,84	13.840 lm	10.400 lm	179 lm/W	A4+ 1,52	17.305 lm	13.000 lm	178 lm/W	A++ 1,40	OE
6.900 lm	5.655 lm	179 lm/W	A9+ 2,01	10.380 lm	8.510 lm	179 lm/W	A9+ 2,01	13.840 lm	11.350 lm	179 lm/W	A5+ 1,66	17.305 lm	14.190 lm	178 lm/W	A4+ 1,53	OF
6.900 lm	5.040 lm	179 lm/W	A6+ 1,79	10.380 lm	7.585 lm	179 lm/W	A6+ 1,79	13.840 lm	13.840 lm	179 lm/W	A6+ 1,48	17.305 lm	12.645 lm	178 lm/W	A++ 1,36	OG

3000K CRI 70 - 700mA - IP66 - IK09																
24 LED - 52 W				36 LED - 77,5 W				48 LED - 103,5 W				60 LED - 129,5 W				OPTICS
RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	
7.600 lm	6.080 lm	146 lm/W	A5+ 1,60	11.325 lm	9.060 lm	146 lm/W	A4+ 1,56	15.125 lm	12.100 lm	146 lm/W	A3+ 1,41	18.925 lm	15.140 lm	146 lm/W	A+ 1,30	OA, OB, OM, ON, OP, OQ, OR
7.600 lm	5.400 lm	146 lm/W	A3+ 1,42	11.325 lm	8.045 lm	146 lm/W	A++ 1,38	15.125 lm	10.745 lm	146 lm/W	A+ 1,25	18.925 lm	13.445 lm	146 lm/W	A 1,15	OD
7.600 lm	5.640 lm	146 lm/W	A3+ 1,49	11.325 lm	8.410 lm	146 lm/W	A3+ 1,45	15.125 lm	11.230 lm	146 lm/W	A++ 1,31	18.925 lm	14.050 lm	146 lm/W	A+ 1,21	OE
7.600 lm	6.225 lm	146 lm/W	A5+ 1,64	11.325 lm	9.275 lm	146 lm/W	A4+ 1,60	15.125 lm	12.390 lm	146 lm/W	A3+ 1,44	18.925 lm	15.505 lm	146 lm/W	A++ 1,33	OF
7.600 lm	5.555 lm	146 lm/W	A3+ 1,46	11.325 lm	8.275 lm	146 lm/W	A3+ 1,42	15.125 lm	11.050 lm	146 lm/W	A+ 1,29	18.925 lm	13.830 lm	146 lm/W	A 1,19	OG

3000K CRI 70 - 700mA - IP66 - IK09																
24 LED - 38,5 W				36 LED - 58 W				48 LED - 77,5 W				60 LED - 97 W				OPTICS
RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	
6.035 lm	4.830 lm	157 lm/W	A6+ 1,72	9.030 lm	7.225 lm	156 lm/W	A6+ 1,71	12.060 lm	9.650 lm	156 lm/W	A5+ 1,66	15.090 lm	12.075 lm	156 lm/W	A3+ 1,50	OA, OB, OM, ON, OP, OQ, OR
6.035 lm	4.290 lm	157 lm/W	A4+ 1,53	9.030 lm	6.415 lm	156 lm/W	A4+ 1,51	12.060 lm	8.570 lm	156 lm/W	A3+ 1,47	15.090 lm	10.725 lm	156 lm/W	A++ 1,33	OD
6.035 lm	4.480 lm	157 lm/W	A4+ 1,59	9.030 lm	6.705 lm	156 lm/W	A4+ 1,58	12.060 lm	8.955 lm	156 lm/W	A4+ 1,54	15.090 lm	11.205 lm	156 lm/W	A++ 1,39	OE
6.035 lm	4.945 lm	157 lm/W	A6+ 1,76	9.030 lm	7.400 lm	156 lm/W	A6+ 1,75	12.060 lm	9.880 lm	156 lm/W	A5+ 1,70	15.090 lm	12.365 lm	156 lm/W	A4+ 1,54	OF
6.035 lm	4.410 lm	157 lm/W	A4+ 1,57	9.030 lm	6.600 lm	156 lm/W	A4+ 1,56	12.060 lm	8.815 lm	156 lm/W	A4+ 1,52	15.090 lm	11.030 lm	156 lm/W	A++ 1,37	OG

*Parameterised efficiency index (IPEA) determined for field of application defined as “street lighting”.
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

More features / Caratteristiche aggiuntive

The device comes with the Constant Light Output (CLO) function, a system for offsetting the luminous flux decay and for ensuring a pre-defined level of illumination throughout the fitting's useful life.

L'apparecchio è provvisto di funzione Constant Light Output (CLO), sistema per compensare il decadimento del flusso luminoso e per assicurare un livello di illuminazione predefinito durante la vita utile del corpo illuminante.



The tilt angle can be adjusted as follows: $+5^{\circ}$, -10° , -15° .

Possibilità di regolare l'inclinazione: $+5^{\circ}$, -10° , -15° .



Pole-top mount with vertical and horizontal orientation.

Aggancio testa-palo con orientamento verticale e orizzontale.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3:2002/AMD1:2011, IEC 60598-1:2014, IEC 62031:2008 +A1:2012 + A2:2014, IEC TR 62778:2014 (Second Edition), EN62471, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

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Certificazioni: CE, RoHS.

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the "Exempt Group" category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria "Exempt Group" (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

WING EVO

Codes / Codici

Example code: **9F01D24AXR52V**

9F01	D	24	A	X	R	52	V
MODEL*	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9F01 = Wing Evo	D = 4000K - 70	24 = 24	A = OA	X = by Castaldi	R = Class I / Dimming / SPD	52 = 52 W (24L 700 mA)	Without the last letter = Standard
	B = 3000K - 70	36 = 36	B = OB		S = Class I / Not dimming / SPD	77 = 77,5 W (36L 700 mA)	
		48 = 48	D = OD			A3 = 103,5 W (48L 700 mA)	
		60 = 60	E = OE		O = Class II / Dimming / Varistore	C9 = 129,5 W (60L 700 mA)	V = Custom
			F = OF		M = Class II / Dimming / Varistore + Esdbox		
			G = OG		K = Class II / Dimming / SPD	38 = 38,5 W (24L 525 mA)	
			M = OM		I = Class II / Dimming / SPD + Esdbox	C9 = 58 W (36L 525 mA)	
			N = ON			C9 = 77,5 W (48L 525 mA)	
			P = OP		N = Class II / Not dimming / Varistore + Esdbox	C9 = 97 W (60L 525 mA)	
			Q = OQ		J = Class II / Not dimming / SPD		
			R = OR		L = Class II / Not dimming / SPD + Esdbox		

Compatibility with arms / Compatibilità con sbracci

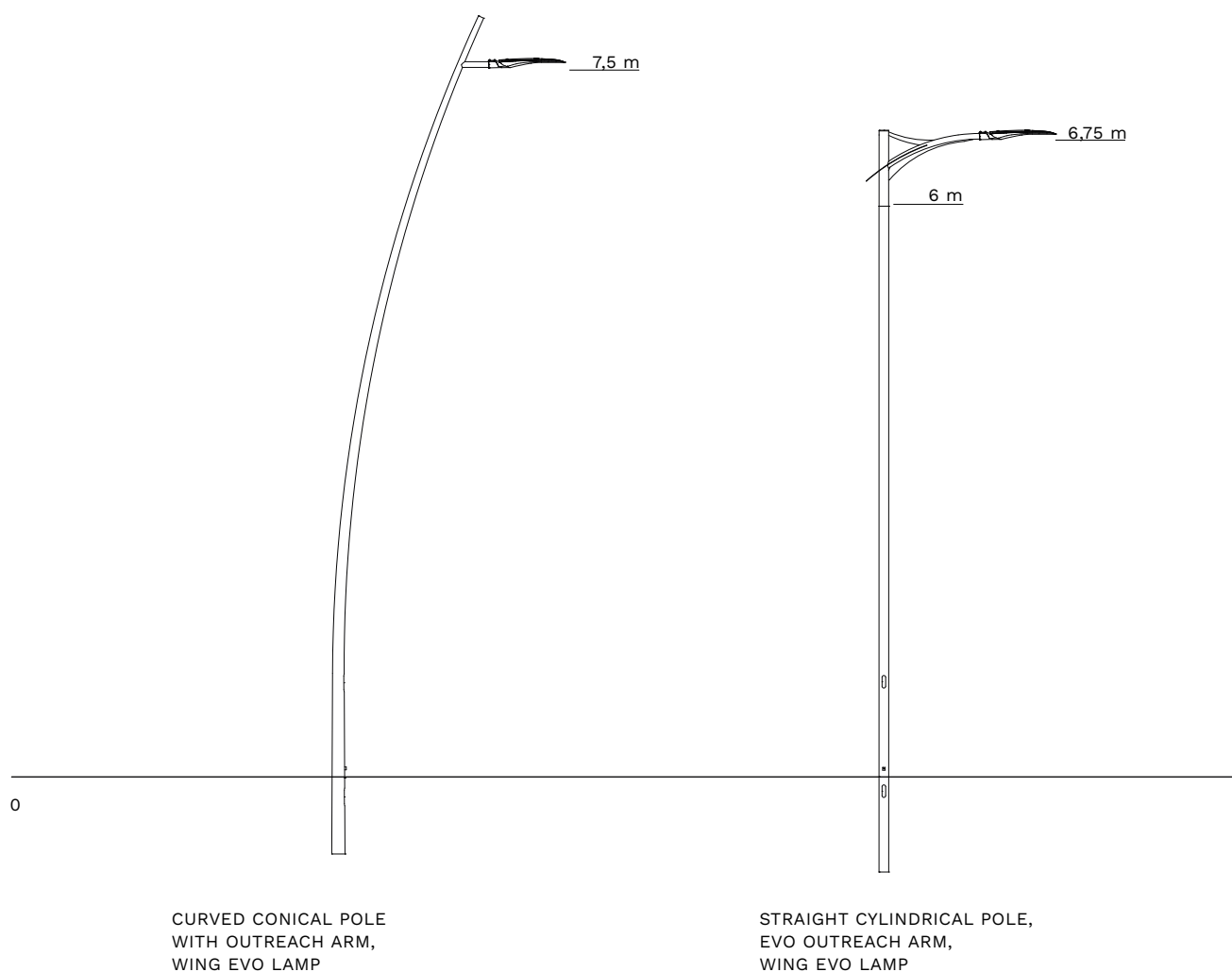
• Aris arm	• Sbraccio Aris
• Libra arm	• Sbraccio Libra
• Vela arm	• Sbraccio Vela
• Tema arm	• Sbraccio Tema
• Hindi arm	• Sbraccio Hindi
• Tear Light arm	• Sbraccio Tear Light
• Tear XL arm	• Sbraccio Tear XL
• Evo arm	• Sbraccio Evo

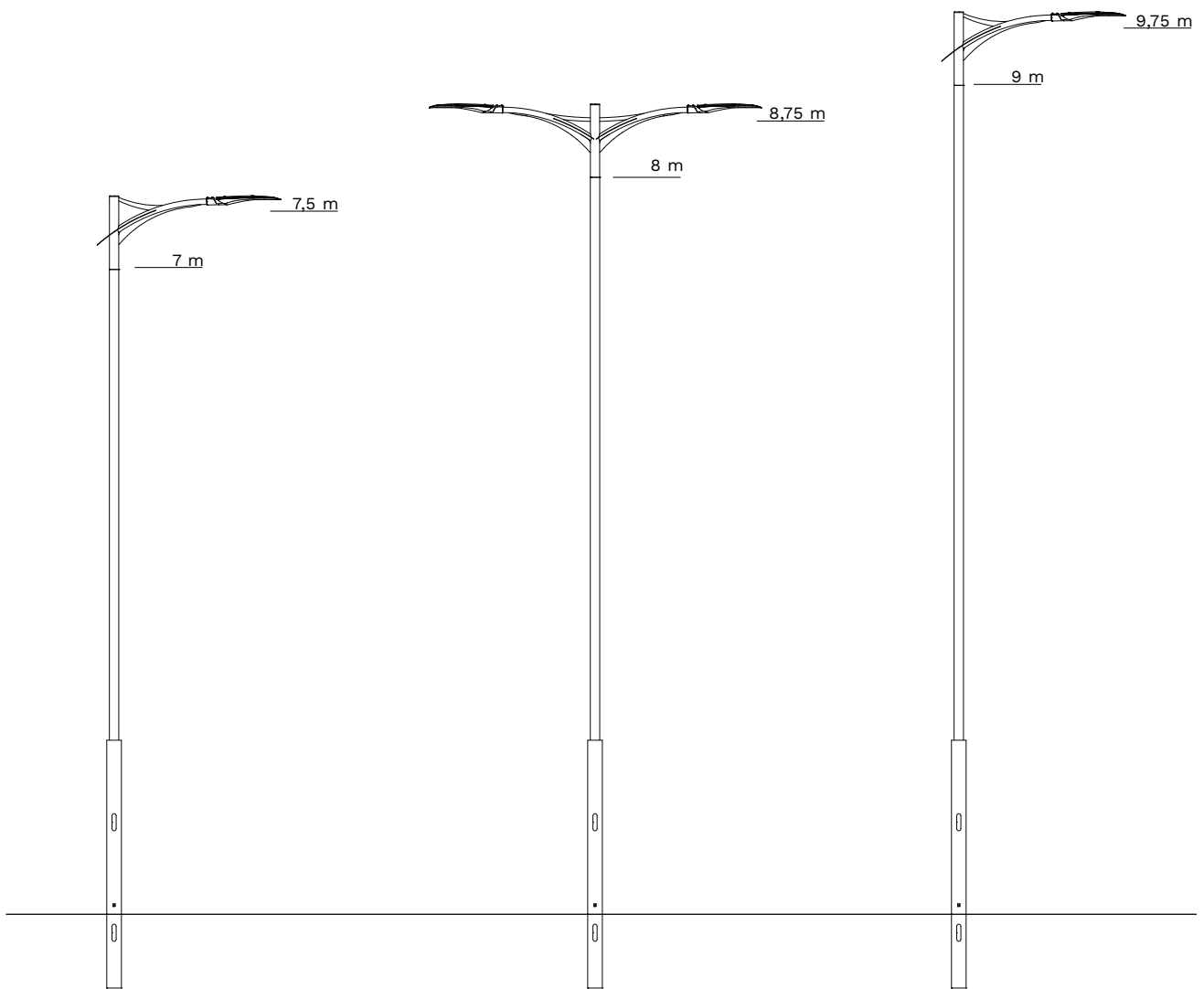
Compatibility with poles / Compatibilità con pali

• Straight conical pole Ø 60	• Palo conico dritto Ø 60
• Curved conical pole with Ø 60 arm	• Palo conico curvato con sbraccio Ø 60
• Double curved conical pole with Ø 60 arm	• Palo conico curvato doppio con sbraccio Ø 60
• Straight cylindrical pole with shank Ø 60	• Palo cilindrico dritto con codolo Ø 60
• Straight tapered flanged pole Ø 60	• Palo rastremato dritto flangiato Ø 60
• Straight tapered pole Ø 60	• Palo rastremato dritto Ø 60

WING EVO

Collection example / Esempio collezione





STRAIGHT TAPERED POLE,
EVO OUTREACH ARM,
WING EVO LAMP

STRAIGHT TAPERED POLE,
DOUBLE EVO OUTREACH ARM,
WING EVO LAMPS

STRAIGHT TAPERED POLE,
EVO OUTREACH ARM,
WING EVO LAMP

COOMING SOON

BOXER ROUND

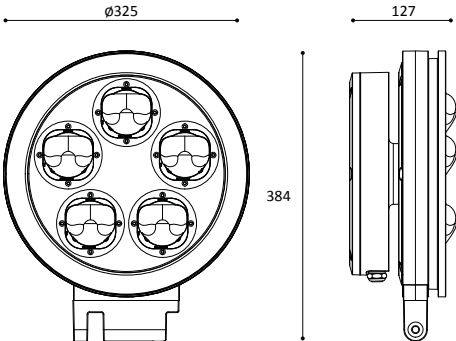
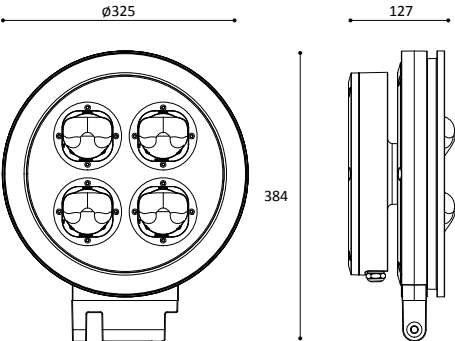
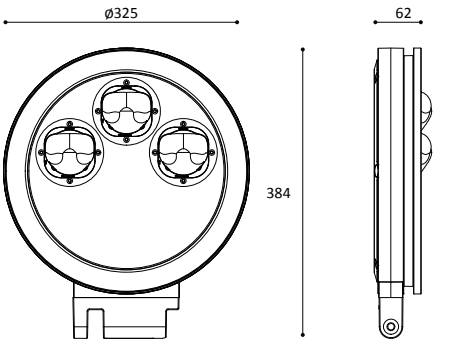
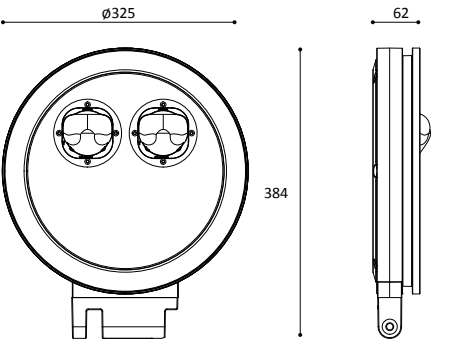
Design by Habit(s)

A high-performance compact spotlight that combines optical precision with a slim profile, guaranteeing a wide range of light flows from 5.000 lm to 12.500 lm.

Proiettore compatto ad elevate prestazioni che coniuga precisione ottica e sottigliezza, consentendo di avere un'ampia gamma di flussi da 5.000 lm a 12.500 lm.







Boxer Round (2 - 3 - 4 -5 COB)



BOXER ROUND

Versions / Varianti

Boxer Round single lamp post
Boxer Round double lamp post

Lampione singolo Boxer Round
Lampione doppio Boxer Round

Physical features / Caratteristiche fisiche

Light fitting dimensions: 310 mm (L) x 130 mm (W) x 380 mm (H).
Weight: 6 kg (with rear box); 4 kg (without rear box).
Coating: with polyester powders after several corrosion-prevention treatments (1500-hour salt spray test passed).
Body: die-cast aluminium, resistant to corrosion.
Diffuser: silicone lenses.
Screws and bolts: grade AISI 304 stainless steel.
Seals: silicone rubber.

Dimensioni corpo illuminante: 310 mm (L) x 130 mm (W) x 380 mm (H)
Peso: 6 kg (con rear box); 4 kg (senza rear box)
Verniciatura: polveri poliesteri, previo pluritrattamenti contro la corrosione (supera il test di 1500 ore in nebbia salina).
Corpo: in alluminio pressofuso, resistente alla corrosione
Diffusore: Lenti in silicone
Viteria: Viteria inox AISI 304
Guarnizioni: Gomma ai siliconi

Electrical features / Caratteristiche elettriche

Economic life: 60.000 h L90B10 Ta=25°C.
Driver: ON-OFF or DALI.
Mains voltage: 220-240 V / 50-60 Hz.
Wiring: configured for pass-through line, internal branch-off, only use a type H07RN-F cable (EN 60598-1).
Insulation Class I. On request the product can be made with Insulation Class II.

Vita economica: 60.000 h L90B10 Ta=25°C
Driver: ON-OFF o DALI
Tensione di rete: 220-240 V / 50-60 Hz
Cablaggio: predisposti per linea passante, derivazione interna utilizzare solo (EN 60598-1) cavo tipo H07RN-F.
Classe di isolamento I. A richiesta il prodotto può essere realizzato in classe II.

Power supply / Alimentazione

Control gear with automatic dimming, with a power factor of up to 98%.
The device guarantees a level protection against discharges of up to 10 kV with Class I and Class II insulation.

Alimentatore con dimmerazione automatica, con un power factor fino a 98%.
Dispositivo di protezione alle scariche fino a 10 kV in classe I e II di isolamento.

Sources / Sorgenti

3000K LED - CRI 80
4000K LED - CRI 80

LED 3000K - CRI 80
LED 4000K - CRI 80

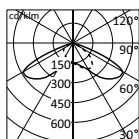
Dimming options / Opzioni di dimmerazione

STANDARD AUTO-DIM: standard automatic dimming.
CUSTOM AUTO-DIM: personalised automatic dimming.

AUTO-DIM STANDARD: dimmerazione automatica standard
AUTO-DIM CUSTOM: dimmerazione automatica personalizzata

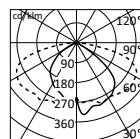
Optics / Ottiche

RA



Road emission

AS



Asymmetric

Performance / Prestazioni

OPTICS	4000K											
	2 LED - 40 W			3 LED - 60 W			4 LED - 80 W			5 LED - 100 W		
	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
AS	5.033 lm	126 lm/W	A6+ 1,72	7.550 lm	122 lm/W	A5+ 1,66	10.066 lm	122 lm/W	A5+ 1,66	12.582 lm	122 lm/W	A5+ 1,66
RA	5.033 lm	126 lm/W	A6+ 1,72	7.550 lm	122 lm/W	A5+ 1,66	10.066 lm	122 lm/W	A5+ 1,66	12.582 lm	122 lm/W	A5+ 1,66

OPTICS	3000K											
	2 LED - 40 W			3 LED - 60 W			4 LED - 80 W			5 LED - 100 W		
	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
AS	4.906 lm	122 lm/W	A5+ 1,67	7.359 lm	117 lm/W	A5+ 1,62	8.192 lm	117 lm/W	A5+ 1,62	12.256 lm	117 lm/W	A5+ 1,62
RA	4.906 lm	122 lm/W	A5+ 1,67	7.359 lm	117 lm/W	A5+ 1,62	8.192 lm	117 lm/W	A5+ 1,62	12.256 lm	117 lm/W	A5+ 1,62

*Parameterised efficiency index (IPEA) determined for field of application defined as "street and large area lighting".

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.
In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

BOXER ROUND

More features / Caratteristiche aggiuntive



POLE CONNECTION

Suitable for one or two fixtures Boxer Round on conical or cylindrical poles with diameters 60 or 76mm.

GANASCIA PER MONTAGGIO A PALO
Idonea per montaggio di uno o due apparecchi Boxer Round su palo tronco-conico o cilindrico con diametri 60 o 76mm.



SINGLE CONNECTION for Ø60mm pole top entry. The single pole connection, suitable for pole top entry or piece of pole Ø60mm, allows to freely adjust the floodlight.

INNESTO SINGOLO per testa palo Ø60mm.
L'attacco a palo singolo, predisposto per imbocco su palo terminale o spezzone di palo Ø60mm, consente la massima libertà d'orientamento.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Codes / Codici

Example code: **D71 / S - E L 2 A S 8 4 - G R**

D71	S	EL	2	AS	84	GR
MODEL	SIZE	CONTROLS	VERSIONS	BEAMS	LIGHTING COLORS	FINISH
D71 = Boxer Round	S = Street	EL = ON-OFF Class I 2EL = ON-OFF Class II	2 = 2 COB 45 W 3 = 3 COB 67 W 4 = 4 COB 90 W 5 = 5 COB 100 W	AS = Asymmetric RA = Road Emission	84 = 4000K CRI>80 83 = 3000K CRI>80	GR = Graphite AL = Aluminium Grey

BOXER STREET

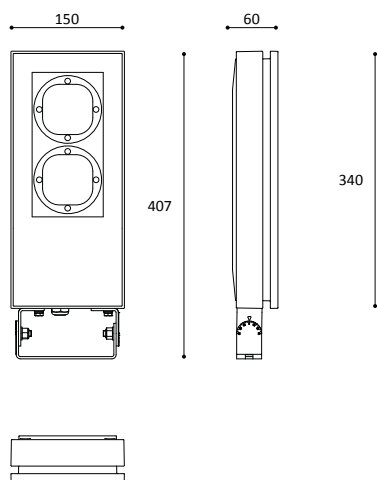
Design by Habit(s)

Compact modular boxes that allow for having a wide range of light flows, from 4000 lm to 7500 lm, mounted on poles.

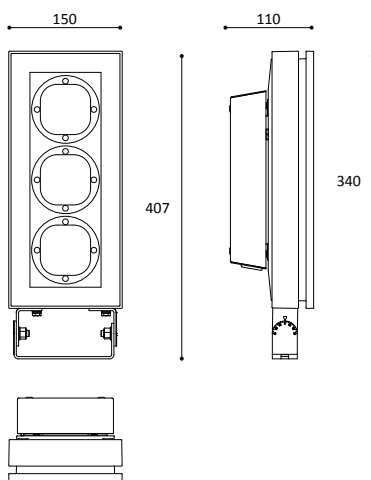
Box modulari compatti che consentono di avere un'ampia gamma di flussi da 4000 lm a 7500 lm, per montaggio su palo.







Boxer Street (2 LED)



Boxer Street (3 LED)



BOXER STREET

Versions / Varianti

Boxer Street single lamp post
Boxer Street double lamp post

Lampione singolo Boxer Street
Lampione doppio Boxer Street

Physical features / Caratteristiche fisiche

2-LED light fitting dimensions: 407 mm (L) x 150 mm (W) x 60 mm (H).
3-LED light fitting dimensions: 407 mm (L) x 150 mm (W) x 60 mm (H).
Weight: 3,8 kg (2 LEDs); 5 kg (3 LEDs).
Coating: with polyester powders after several corrosion-prevention treatments (1500-hour salt spray test passed).
Body: die-cast aluminium, resistant to corrosion.
Diffuser: silicone lenses.
Screws and bolts: grade AISI 304 stainless steel.
Seals: silicone rubber.

Dimensioni corpo illuminante 2 Led: 150 mm (L) x 60 mm (W) x 407 mm (H)
Dimensioni corpo illuminante 3 Led: 150 mm (L) x 110 mm (W) x 407 mm (H)
Peso: 3,8 kg (2 LED); 5 kg (3 LED)
Verniciatura: a polveri poliesteri, previo pluritrattamenti contro la corrosione (supera il test di 1500 ore in nebbia salina).
Corpo: in alluminio pressofuso, resistente alla corrosione
Diffusore: Lenti in silicone
Viteria: Viteria inox AISI 304.
Guarnizioni: Gomma ai siliconi.

Electrical features / Caratteristiche elettriche

Economic life: 60.000 h L90B10 Ta=25°C.
Driver: ON-OFF.
Mains voltage: 220-240 V / 50-60 Hz.
Wiring: complete with a H07RN-F cable section.
Insulation Class I. On request the product can be made with Insulation Class II.

Vita economica: 60.000 h L90B10 Ta=25°
Driver: ON-OFF
Tensione di rete: 220-240V / 50-60Hz
Cablaggio: Completo di spezzone di cavo H07RN-F.
Classe di isolamento I. A richiesta il prodotto può essere realizzato in classe II.

Power supply / Alimentazione

ON-OFF control gear with dimming on request, with a power factor of 90%.
A device (SPD) that guarantees protection against discharges of up to 10 kV with Class I and Class II insulation.

Alimentatore ON-OFF e dimmerabile a richiesta, con un power factor del 90%.
Dispositivo (SPD) che garantisce un livello di protezione alle scariche fino a 10 kV in classe I e II di isolamento.

Sources / Sorgenti

3000K LED - CRI 80
4000K LED - CRI 80

LED 3000K - CRI 80
LED 4000K - CRI 80

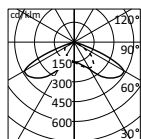
Dimming options / Opzioni di dimmerazione

DALI-DIMMING OPTION

DALI-DIMMING OPTION

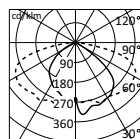
Optics / Ottiche

RA



Road emission

AS



Asymmetric

Performance / Prestazioni

OPTICS	4000K							
	2 LED - 40 W				3 LED - 62 W			
	LUMINAIRE EFFICIENCY		IPEA* INDEX		LUMINAIRE EFFICIENCY		IPEA* INDEX	
AS	5.033 lm	126 lm/W	A6+	1,72	7.550 lm	122 lm/W	A5+	1,66
RA	5.033 lm	126 lm/W	A6+	1,72	7.550 lm	122 lm/W	A5+	1,66

OPTICS	3000K							
	2 LED - 40 W				3 LED - 62 W			
	LUMINAIRE EFFICIENCY		IPEA* INDEX		LUMINAIRE EFFICIENCY		IPEA* INDEX	
AS	4.906 lm	122 lm/W	A5+	1,67	7.359 lm	117 lm/W	A5+	1,62
RA	4.907 lm	122 lm/W	A5+	1,67	7.359 lm	117 lm/W	A5+	1,62

*Parameterised efficiency index (IPEA) determined for field of application defined as “street and large area lighting”.

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.

Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

BOXER STREET

More features / Caratteristiche aggiuntive



POLE CONNECTION

Suitable for one or two fixtures Boxer Street on conical or cylindrical poles with diameters 60 or 76mm.

GANASCIA PER MONTAGGIO A PALO
Idonea per montaggio di uno o due apparecchi Boxer Street su palo tronco-conico o cilindrico con diametri 60 o 76mm.



SINGLE CONNECTION for Ø60mm pole top entry. The single pole connection, suitable for pole top entry or piece of pole Ø60mm, allows to freely adjust the floodlight.

INNESTO SINGOLO per testa palo Ø60mm.
L'attacco a palo singolo, predisposto per imbocco su palo terminale o spezzone di palo Ø60mm, consente la massima libertà d'orientamento.

Standards and certifications / Normative e certificazioni

Standards: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certifications: CE, RoHS.

Normative: IEC 60598-2-3, IEC 60598-1, IEC 62031, EN62471, EN61547, EN61000-3-2, EN61000-3-3, EN62493.
Certificazioni: CE, RoHS.

Codes / Codici

Example code: D 7 0 / S - E L 2 A S 8 4 - G R

D70/S	EL	2	AS	84	GR
▲	▲	▲	▲	▲	▲
MODEL	CONTROLS	VERSIONS	BEAMS	LIGHTING COLORS	FINISH
D70/S = Boxer Street	EL = ON-OFF Class I 2EL = ON-OFF Class II	2 = 2 COB 3 = 3 COB	AS = Asymmetric RA = Road Emission	83 = 3000K CRI>80 84 = 4000K CRI>80	GR = Graphite AL = Aluminium Grey

PHOTOVOLTAIC

198 — Tear Light FV

208 — Wing Evo FV

TEAR LIGHT FV

Tear Light FV is a LED-based direct-light photovoltaic lighting system with a minimalist design, consisting of a die-cast aluminium Tear Light model fitting complete with a battery and high-efficiency lamp - 294 mm wide, 178 mm high and 607 mm long - plus a photovoltaic kit.

It is equipped with all the necessary protections for keeping the battery operational and efficient over time in any working conditions - even up to 3 days without sunlight.

This product is suitable for urban decorative and street lighting purposes.

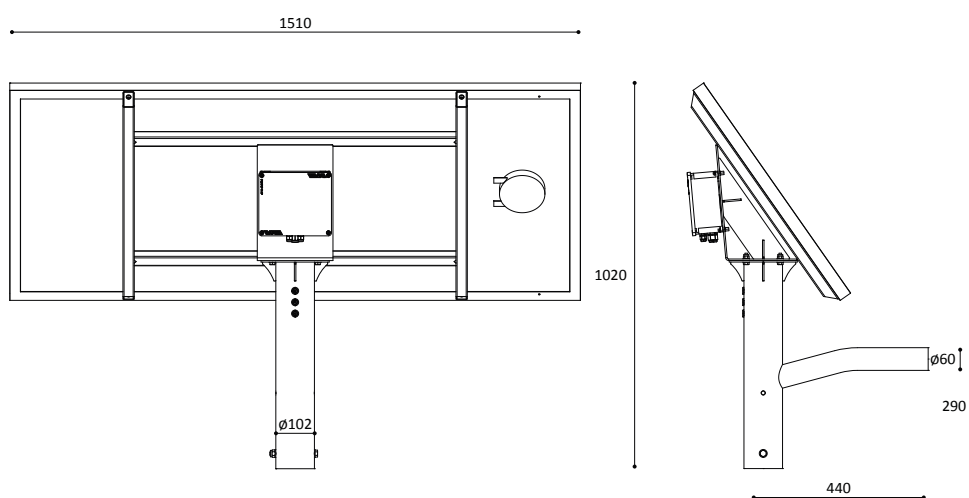
Tear Light FV è un sistema fotovoltaico di illuminazione a luce diretta a LED dal design minimale, costituito da una lampada modello Tear Light in pressofusione di alluminio completo di batteria e lampada ad alta efficienza - larghezza 294 mm, altezza 178 mm e lunghezza 607 mm - e da un kit fotovoltaico.

È dotato di tutte le protezioni necessarie per mantenere efficiente e funzionale la batteria nel tempo in qualsiasi condizione di funzionamento, fino a 3 giorni di assenza di sole.

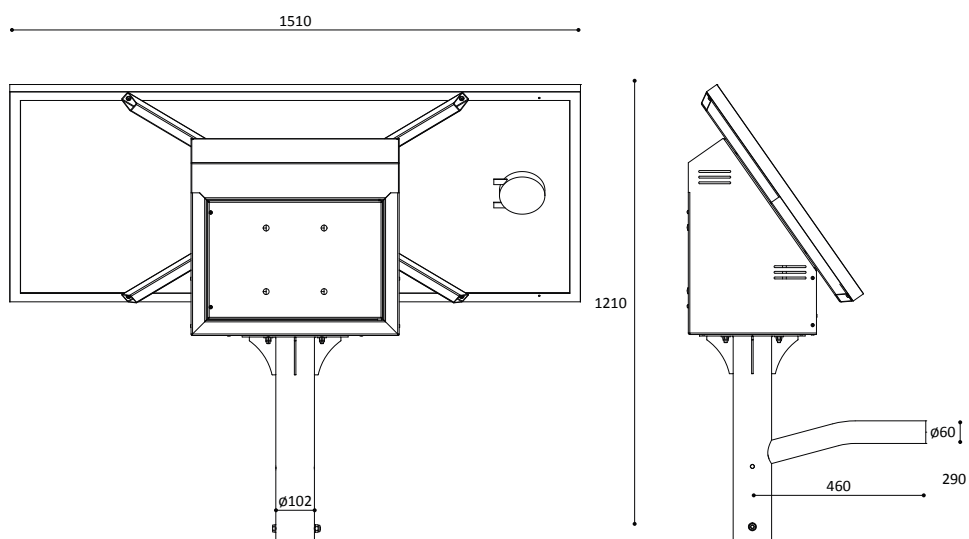
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Tear Light FV — with low-profile battery (in sump): photovoltaic panel angle 55°



Tear Light FV — with high-profile battery: photovoltaic panel angle 55°



TEAR LIGHT FV

Versions / Varianti

Tear Light FV lamp with low battery (to be positioned in the junction box).
Tear Light FV lamp with high battery (to be positioned in an upper compartment).

Lampada Tear Light FV con batteria bassa (da posizionare a pozzetto)
Lampada Tear Light FV con batteria alta (da posizionare in un vano superiore)

Physical features / Caratteristiche fisiche

Dimensions of the supporting structure: 1510 mm (L) x 440 mm (W) x 1020 mm (H) Tear Light FV with low battery; 1510 mm (L) x 460 mm (W) x 1210 mm (H) Tear Light FV with high battery.
Weight: 35 kg Tear Light FV with low battery; 70 kg Tear Light FV with high battery.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni struttura di supporto: 1510 mm (L) x 440 mm (W) x 1020 mm (H) Tear Light FV con batteria bassa; 1510 mm (L) x 460 mm (W) x 1210 mm (H) Tear Light FV con batteria alta
Peso: 35 kg Tear Light FV con batteria bassa; 70 kg Tear Light FV con batteria alta.
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Insulation class: III.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=85°C.
Classe di isolamento: III.

Power supply / Alimentazione

Electronic module that functions as an interface between the charge regulator and the lamp, designed and personalised by Castaldi for optimising the product. Includes the dimming function for reducing the night-time light flow. Insulation class III.

Modulo elettronico di interfaccia tra regolatore di carica e lampada progettato e personalizzato Castaldi per ottimizzare il prodotto, completo di dimmerazione, per ridurre il flusso notturno. Classe di isolamento III.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

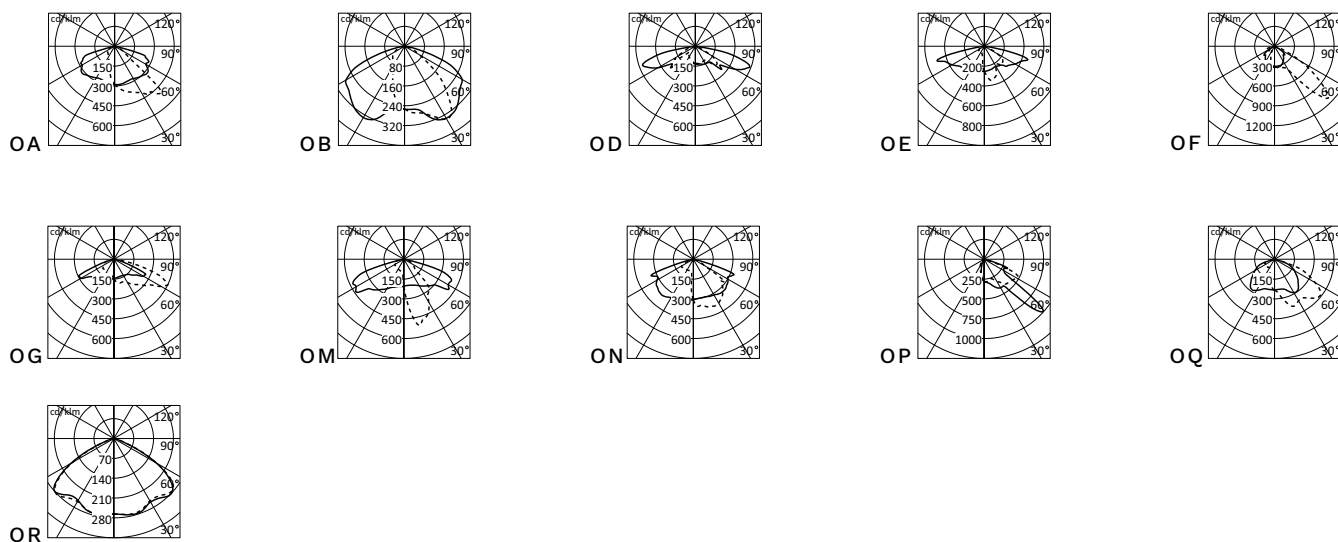
LED 3000K - CRI 70
LED 4000K - CRI 70
MacAdam: Step 3

Dimming options / Opzioni di dimmerazione

3 dimming steps (non-modifiable).
Duration of "on" operation with dusk-to-dawn sensor: ON 3 HOURS with operation at 100%.
The next 3 hours: ON with operation at 50% of the rated power.
The remaining hours until it switches off through the integrated dusk-to-dawn sensor: ON with operation at 30% of the rated power.

3 step di dimmerazione (non modificabili).
Durate di accensione da Crepuscolare: ON 3 ORE funzionamento al 100%.
Le successive 3 ore: ON funzionamento al 50% della potenza nominale.
Le rimanenti ore fino al suo spegnimento tramite crepuscolare integrato: ON funzionamento al 30% della potenza nominale.

Optics / Ottiche



Performance / Prestazioni

OPTICS	4000K CRI 70 - IP66 - IK08				32 LED - 350 mA - 34 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	5.475 lm	4.380 lm	171 lm/W	A7+ 1,87	6.005 lm	4.805 lm	177 lm/W	A8+ 1,94
OD	5.475 lm	3.885 lm	171 lm/W	A5+ 1,66	6.005 lm	4.260 lm	177 lm/W	A6+ 1,72
OE	5.475 lm	4.095 lm	171 lm/W	A6+ 1,75	6.005 lm	4.490 lm	177 lm/W	A7+ 1,81
OF	5.475 lm	4.485 lm	171 lm/W	A8+ 1,92	6.005 lm	4.920 lm	177 lm/W	A8+ 1,98
OG	5.475 lm	3.995 lm	171 lm/W	A6+ 1,71	6.005 lm	4.385 lm	177 lm/W	A6+ 1,77

OPTICS	3000K CRI 70 - 700mA - IP66 - IK08				32 LED - 350 mA - 34 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.685 lm	3.750 lm	146 lm/W	A5+ 1,61	5.155 lm	4.125 lm	152 lm/W	A5+ 1,66
OD	4.685 lm	3.330 lm	146 lm/W	A3+ 1,43	5.155 lm	3.660 lm	152 lm/W	A3+ 1,47
OE	4.685 lm	3.480 lm	146 lm/W	A3+ 1,49	5.155 lm	3.855 lm	152 lm/W	A4+ 1,55
OF	4.685 lm	3.840 lm	146 lm/W	A5+ 1,64	5.155 lm	4.220 lm	152 lm/W	A6+ 1,70
OG	4.685 lm	3.425 lm	146 lm/W	A3+ 1,47	5.155 lm	3.765 lm	152 lm/W	A4+ 1,52

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

TEAR LIGHT FV

More features / Caratteristiche aggiuntive

The photovoltaic kit contains the following devices:

- charge regulator: PWM 12/24 V 10 A with automatic disconnection when the battery is charged.
- IP68 sealed battery: PB - GEL 12 V 100 Ah featuring excellent performance with high current, optimised for short discharge time. Maintenance-free (no topping up).
- Panel: 12 V poly-crystalline photovoltaic module made of premium-quality material, ensuring excellent performance and long-lasting life. The high-performance cells are protected by an anti-reflection glass with high transmittance.

Il kit fotovoltaico consta delle seguenti apparecchiature:

- regolatore di carica: PWM 12/24V 10A con disconnessione automatica a batteria carica.
- Batteria stagna IP68: PB - GEL 12V 100Ah con eccellenti prestazioni ad alta corrente - ottimizzate per breve tempo di scarica. Senza manutenzione (nessun rabbocco).
- Pannello: modulo fotovoltaico poli-cristallino 12V , realizzato con materiale di prima qualità, con una ottima resa e una lunga durata. Le celle ad alto rendimento sono protette da vetro antiriflesso ad elevata trasmissanza.

Standards and e certifications / Normative e certificazioni

Charge regulator: conforms to the following IEC 62109-1 safety standard and to the EN 61000-6-1, EN 61000-6-3 and ISO 7637-2 standards for EMC.

Photovoltaic panel conforms to the following standards: EN 61730-1:2007+A1:2012+A2:2013+A11:2014; EN 61730-2:2007+A1:2012.

Regolatore di carica: conforme alle norme STANDARDS per la sicurezza IEC 62109-1 e per la EMC EN 61000-6-1, EN 61000-6-3, ISO 7637-2

Pannello fotovoltaico conforme alle seguenti norme Standards: EN 61730-1:2007+A1:2012+A2:2013+A11:2014; EN 61730-2:2007+A1:2012

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the “Exempt Group” category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria “Exempt Group” (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

LIGHTING MODULE

Example code: **9E21D16A0032Q**

9E21	D	16	A	0	0	32	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9E21 = Tear Light FV	D = 4000K - 70	16=16	A = OA	0 = No driver	0 = Standard photovoltaic version + dimming	32 = 32 W (16L 700 mA)	Q = Standard
	B = 3000K - 70	32=32	B = OB			34 = 34 W (32L 350 mA)	R = Custom
			D = OD				
			E = OE				
			F = OF				
			G = OG				
			M = OM				
			N = ON				
			P = OP				
			Q = OQ				
			R = OR				

PHOTOVOLTAIC KIT

CODE	MODEL	BATTERY	FINISH
8FA00	55° photovoltaic frame kit	In sump	Galvanised
8FA00V	55° photovoltaic frame kit	In sump	Galvanised and painted

Compatibility with poles / Compatibilità con pali

Tear Light FV - low profile battery (in sump)
Tear Light FV - high profile battery

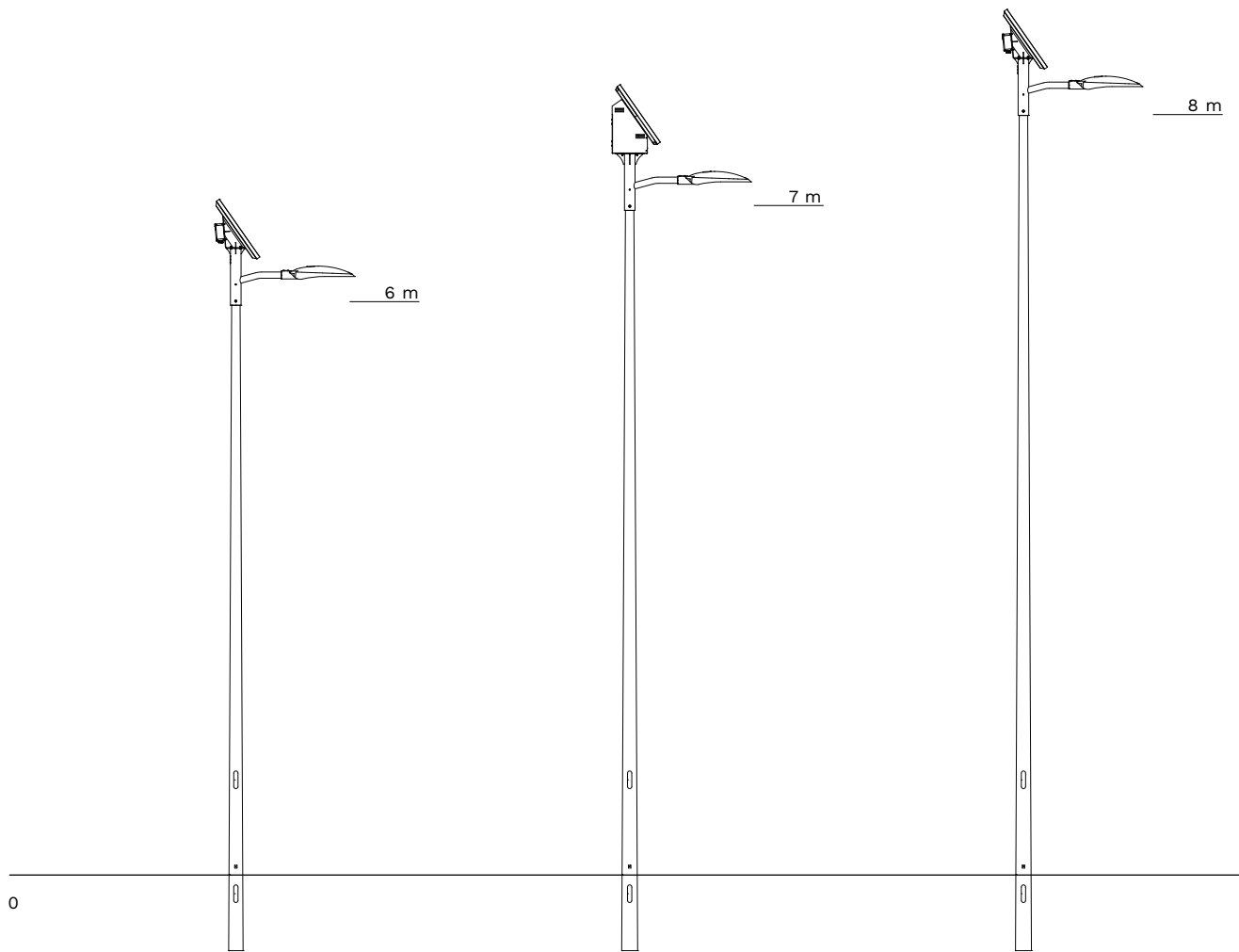
- Straight conical pole (photovoltaic) Ø 89
- Straight tapered pole (photovoltaic) Ø 89

Tear Light FV - low profile battery (in sump)
Tear Light FV - high profile battery

- Palo conico dritto (fotovoltaico) Ø 89
- Palo rastremato dritto (fotovoltaico) Ø 89

TEAR LIGHT FV

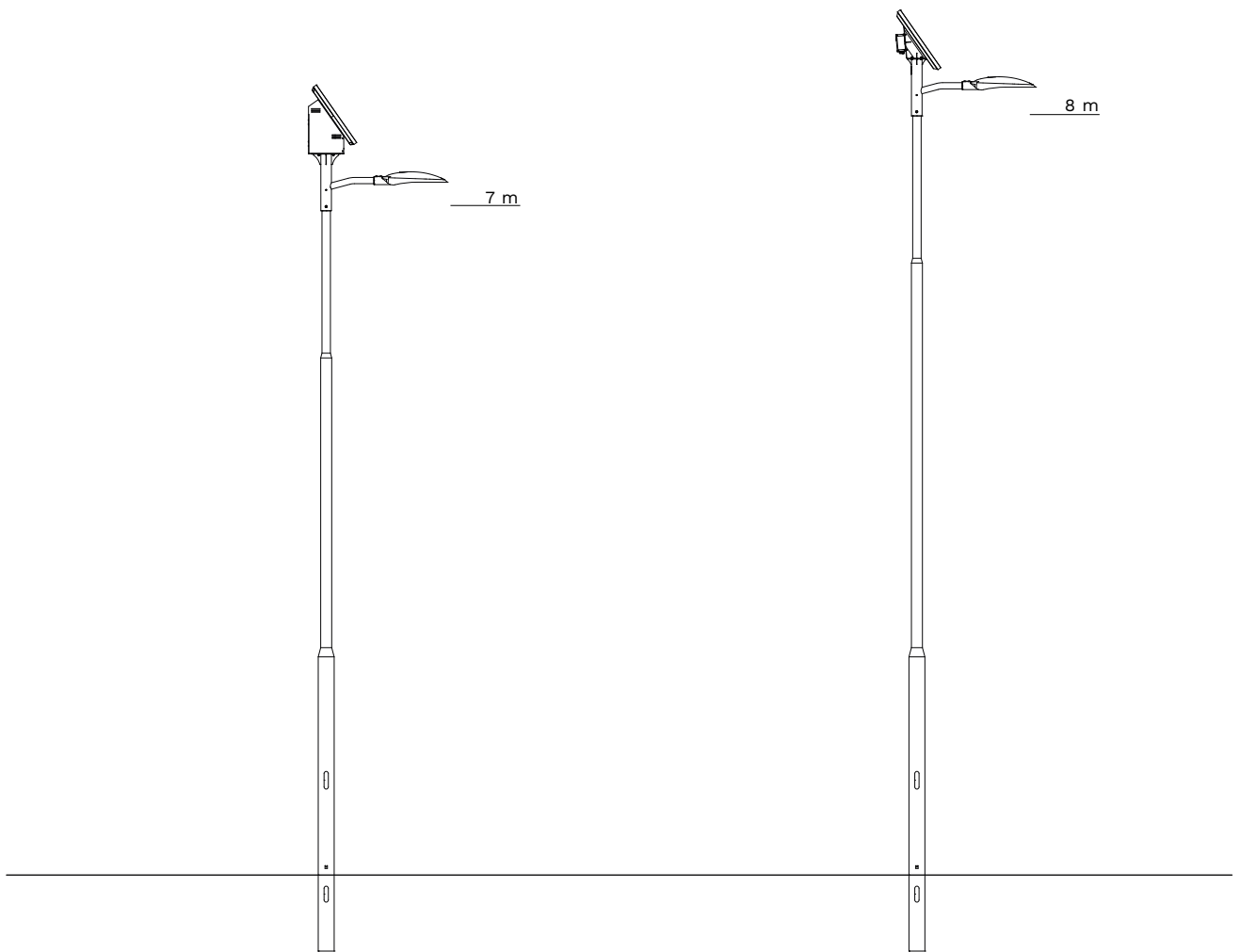
Collection example / Esempio collezione



STRAIGHT CONICAL POLE
TEAR LIGHT FV
LOW-PROFILE BATTERY (IN SUMP)

STRAIGHT CONICAL POLE
TEAR LIGHT FV
HIGH-PROFILE BATTERY (IN SUMP)

STRAIGHT CONICAL POLE
TEAR LIGHT FV
LOW-PROFILE BATTERY (IN SUMP)



STRAIGHT TAPERED POLE
TEAR LIGHT FV
HIGH-PROFILE BATTERY (IN SUMP)

STRAIGHT TAPERED POLE
TEAR LIGHT FV
LOW-PROFILE BATTERY (IN SUMP)

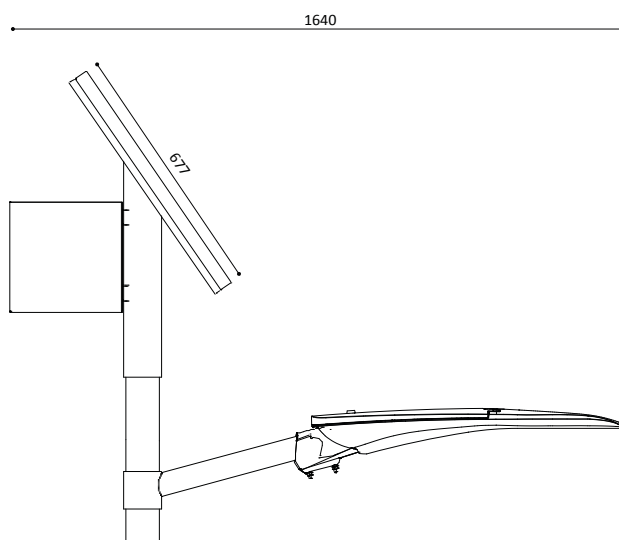
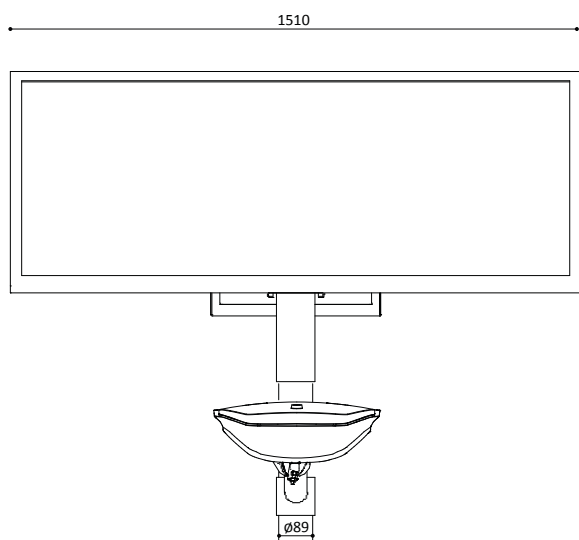
WING EVO FV

Wing Evo FV is a LED-based direct-light photovoltaic lighting system with a minimalist design, consisting of a die-cast aluminium Wing Evo model fitting complete with a battery and high-efficiency lamp - 309 mm wide, 257 mm high and 791 mm long - plus a photovoltaic kit.
This product is suitable for urban decorative and street lighting purposes.

Wing Evo FV è un sistema fotovoltaico di illuminazione a luce diretta a LED dal design minimale, costituito da una lampada modello Wing Evo in pressofusione di alluminio completo di batteria e lampada ad alta efficienza - larghezza 309 mm, altezza 257 mm e lunghezza 791 mm - e da un kit fotovoltaico.
Prodotto adatto per l'illuminazione d'arredo urbano e stradale.







Wing Evo FV



WING EVO FV

Versions / Varianti

Wing Evo FV lamp with low battery (to be positioned in the junction box)
Wing Evo FV lamp with high battery (to be positioned in an upper compartment)

Lampada Wing Evo FV con batteria bassa (da posizionare a pozzetto)
Lampada Wing Evo FV con batteria alta (da posizionare in un vano superiore)

Physical features / Caratteristiche fisiche

Dimensions of the supporting structure: 1510 mm (L) x 440 mm (W) x 1020 mm (H) Wing Evo FV with low battery; 1510 mm (L) x 460 mm (W) x 1210 mm (H) Wing Evo FV with high battery.
Weight: 35 kg Wing Evo FV with low battery; 70 kg Wing Evo FV with high battery.
Coating: with polyester powders, by means of an electrostatic process at 200°C, which causes the coating to polymerise.

Dimensioni struttura di supporto: 1510 mm (L) x 440 mm (W) x 1020 mm (H) Wing Evo FV con batteria bassa; 1510 mm (L) x 460 mm (W) x 1210 mm (H) Wing Evo FV con batteria alta
Peso: 35 kg Wing Evo FV con batteria bassa; 70 kg Wing Evo FV con batteria alta
Verniciatura: a polveri poliestere, a mezzo di un processo elettrostatico a 200°C, atto ad ottenere la polimerizzazione del rivestimento.

Electrical features / Caratteristiche elettriche

Economic life: 100.000 h @ L90 F10 fitting, L90 B20 LED @ TJ=85°C.
Insulation class: III.

Vita economica: 100.000 h @ L90 F10 apparecchio, L90 B20 LED @ TJ=85°C.
Classe di isolamento: III.

Power supply / Alimentazione

Electronic module that functions as an interface between the charge regulator and the lamp, designed and personalised by Castaldi for optimising the product. Includes the dimming function for reducing the night-time light flow. Insulation class III.

Modulo elettronico di interfaccia tra regolatore di carica e lampada progettato e personalizzato Castaldi per ottimizzare il prodotto, completo di dimmerazione, per ridurre il flusso notturno. Classe di isolamento III.

Sources / Sorgenti

3000K LED - CRI 70
4000K LED - CRI 70
MacAdam: 3-step

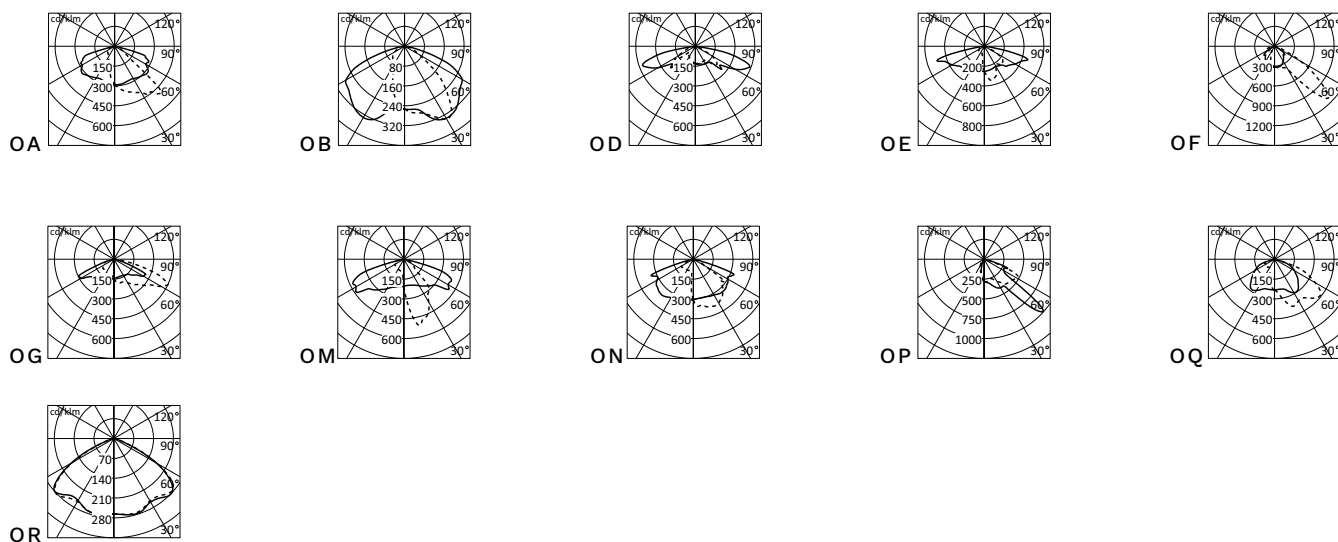
LED 3000K - CRI 70
LED 4000K - CRI 70
McAdam: Step 3

Dimming options / Opzioni di dimmerazione

3 dimming steps (non-modifiable).
Duration of "on" operation with dusk-to-dawn sensor: ON 3 HOURS with operation at 100%.
The next 3 hours: ON with operation at 50% of the rated power.
The remaining hours until it switches off through the integrated dusk-to-dawn sensor: ON with operation at 30% of the rated power.

3 step di dimmerazione (non modificabili).
Durate di accensione da Crepuscolare: ON 3 ORE funzionamento al 100%.
Le successive 3 ore: ON funzionamento al 50% della potenza nominale.
Le rimanenti ore fino al suo spegnimento tramite crepuscolare integrato: ON funzionamento al 30% della potenza nominale.

Optics / Ottiche



Performance / Prestazioni

4000K CRI 70 - IP66 - IK09								
OPTICS	16 LED - 700 mA - 32 W				32 LED - 350 mA - 34 W			
	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX	RATED FLUX	LUMINAIRE FLUX	EFFICIENCY	IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.910 lm	3.930 lm	209 lm/W	A11+ 2,29	7.375 lm	5.900 lm	208 lm/W	A11+ 2,28
OD	4.910 lm	3.490 lm	209 lm/W	A9+ 2,03	7.375 lm	5.235 lm	208 lm/W	A9+ 2,02
OE	4.910 lm	3.675 lm	209 lm/W	A10+ 2,14	7.375 lm	5.515 lm	208 lm/W	A10+ 2,13
OF	4.910 lm	4.020 lm	209 lm/W	A12+ 2,34	7.375 lm	6.045 lm	208 lm/W	A12+ 2,33
OG	4.910 lm	3.585 lm	209 lm/W	A9+ 2,09	7.375 lm	5.385 lm	208 lm/W	A9+ 2,08

	3000K CRI 70 - 700mA - IP66 - IK09							
	16 LED - 700 mA - 32 W				32 LED - 350 mA - 34 W			
OPTICS	RATED FLUX	LUMINAIRE EFFICIENCY		IPEA* INDEX	RATED FLUX	LUMINAIRE EFFICIENCY		IPEA* INDEX
OA, OB, OM, ON, OP, OQ, OR	4.300 lm	3.440 lm	183 lm/W	A9+ 2,01	6.410 lm	5.130 lm	181 lm/W	A8+ 1,98
OD	4.300 lm	3.055 lm	183 lm/W	A6+ 1,78	6.410 lm	4.555 lm	181 lm/W	A6+ 1,76
OE	4.300 lm	3.190 lm	183 lm/W	A7+ 1,86	6.410 lm	4.760 lm	181 lm/W	A7+ 1,84
OF	4.300 lm	3.525 lm	183 lm/W	A9+ 2,05	6.410 lm	5.255 lm	181 lm/W	A9+ 2,03
OG	4.300 lm	3.140 lm	183 lm/W	A7+ 1,83	6.410 lm	4.685 lm	181 lm/W	A7+ 1,81

*Parameterised efficiency index (IPEA) determined for field of application defined as "street lighting".
Efficiency value refers to LED rated luminous flux at 25°

The values specified on this datasheet are rated values with a tolerance of $\pm 5\%$.

In order to keep its product range constantly up-to-date, Castaldi reserves the right to make any changes without prior notice.
Luminaire flux data has been measured in the laboratory. Rated flux data has been taken from the LED manufacturer's datasheet.

WING EVO FV

More features / Caratteristiche aggiuntive

The photovoltaic kit contains the following devices:

- charge regulator: PWM 12/24 V 10 A with automatic disconnection when the battery is charged.
- IP68 sealed battery: PB – GEL 12 V 100 Ah featuring excellent performance with high current, optimised for short discharge time. Maintenance-free (no topping up).
- Panel: 12 V poly-crystalline photovoltaic module made of premium-quality material, ensuring excellent performance and long-lasting life. The high-performance cells are protected by an anti-reflection glass with high transmittance.

Il kit fotovoltaico consta delle seguenti apparecchiature:

- regolatore di carica: PWM 12/24V 10A con disconnessione automatica a batteria carica.
- Batteria stagna IP68: PB – GEL 12V 100Ah con eccellenti prestazioni ad alta corrente - ottimizzate per breve tempo di scarica. Senza manutenzione (nessun rabbocco).
- Pannello: modulo fotovoltaico poli-cristallino 12V , realizzato con materiale di prima qualità, con una ottima resa e una lunga durata. Le celle ad alto rendimento sono protette da vetro antiriflesso ad elevata trasmittanza.

Standards and certifications / Normative e certificazioni

Charge regulator: conforms to the following IEC 62109-1 safety standard and to the EN 61000-6-1, EN 61000-6-3 and ISO 7637-2 standards for EMC.

Photovoltaic panel: conforms to the following standards: EN 61730-1:2007+A1:2012+A2:2013+A11:2014; EN 61730-2:2007+A1:2012.

Regolatore di carica: conforme alle norme STANDARDS per la sicurezza IEC 62109-1 e per la EMC EN 61000-6-1, EN 61000-6-3, ISO 7637-2

Pannello fotovoltaico: conforme alle seguenti norme Standards: EN 61730-1:2007+A1:2012+A2:2013+A11:2014; EN 61730-2:2007+A1:2012

Light pollution / Inquinamento luminoso

The product conforms to the Lombardy Regional Law No. 17/00 on light pollution and belongs to the “Exempt Group” category according to the EN 62471 standard on photobiological safety.

Prodotto conforme alla LR Lombardia 17/00 in materia di inquinamento luminoso, ed appartenente alla categoria “Exempt Group” (Gruppo di Rischio Esente) secondo la norma EN 62471 riguardante la sicurezza fotobiologica.

Codes / Codici

LIGHTING MODULE

Example code: 9E21D16A0032Q

9E21	D	16	A	0	0	32	Q
MODEL	CCT KELVIN - CRI	LEDS NUMBER	OPTIC	DRIVER	INSULATION CLASS / DIMMING / PROTECTION	WATT	RAL COLOR
9F21 = Wing Evo FV	D = 4000K - 70	16=16	A = OA	0 = No driver	0 = Standard photovoltaic version + dimming	23 = 23,5 W (24L 350 mA)	Without the last letter = Standard R = Custom
	B = 3000K - 70	32=32	B = OB			35,5 = 35,5 W (36L 350 mA)	
			D = OD				
			E = OE				
			F = OF				
			G = OG				
			M = OM				
			N = ON				
			P = OP				
			Q = OQ				
			R = OR				

PHOTOVOLTAIC KIT

CODE	MODEL	BATTERY	FINISH
8FA00	55° photovoltaic frame kit	In sump	Galvanised
8FA00V	55° photovoltaic frame kit	In sump	Galvanised and painted

Compatibility with poles / Compatibilità con pali

Wing Evo FV - low profile battery (in sump)
Wing Evo FV - high profile battery

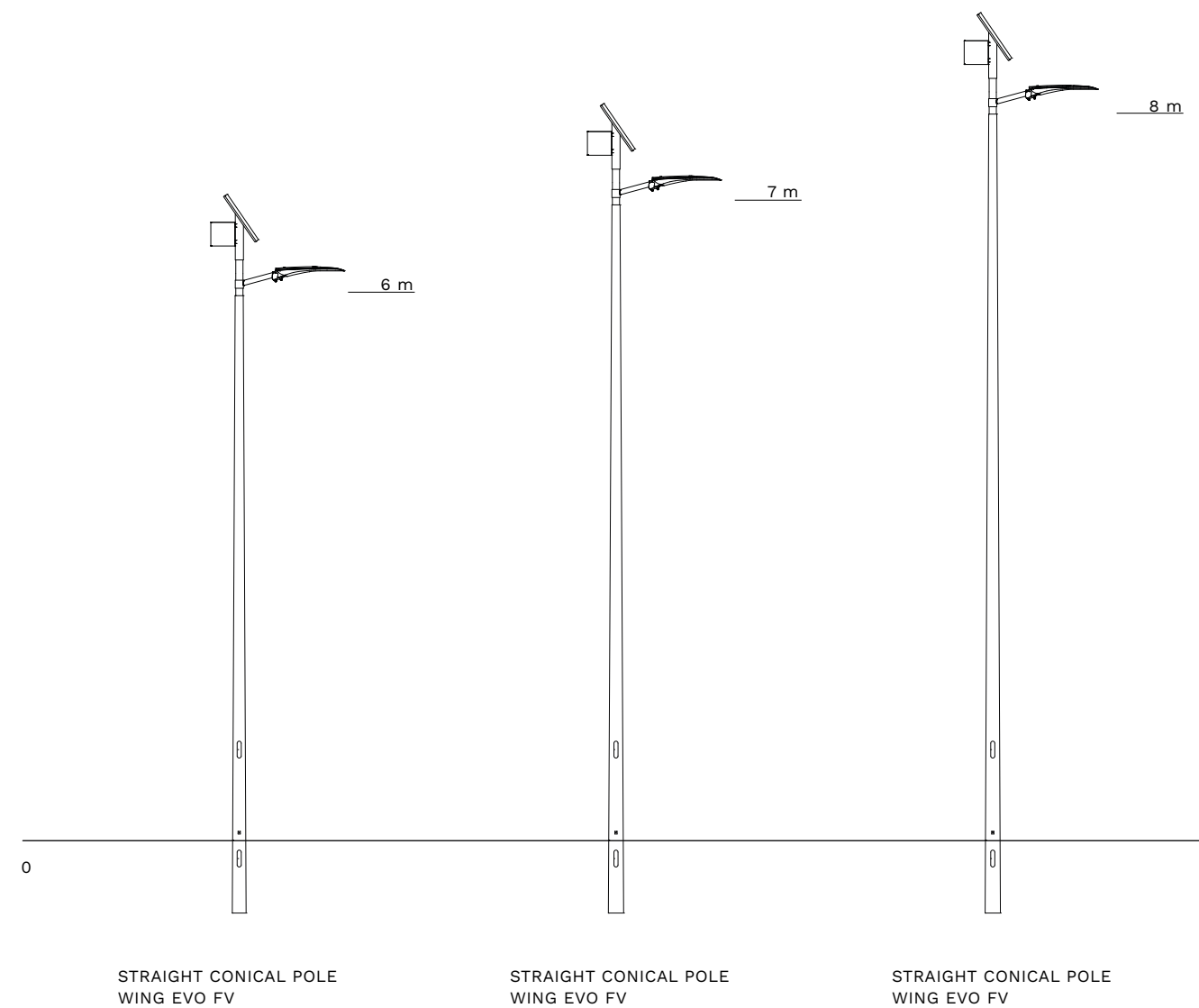
- Straight conical pole (photovoltaic) Ø 89
- Straight tapered pole (photovoltaic) Ø 89

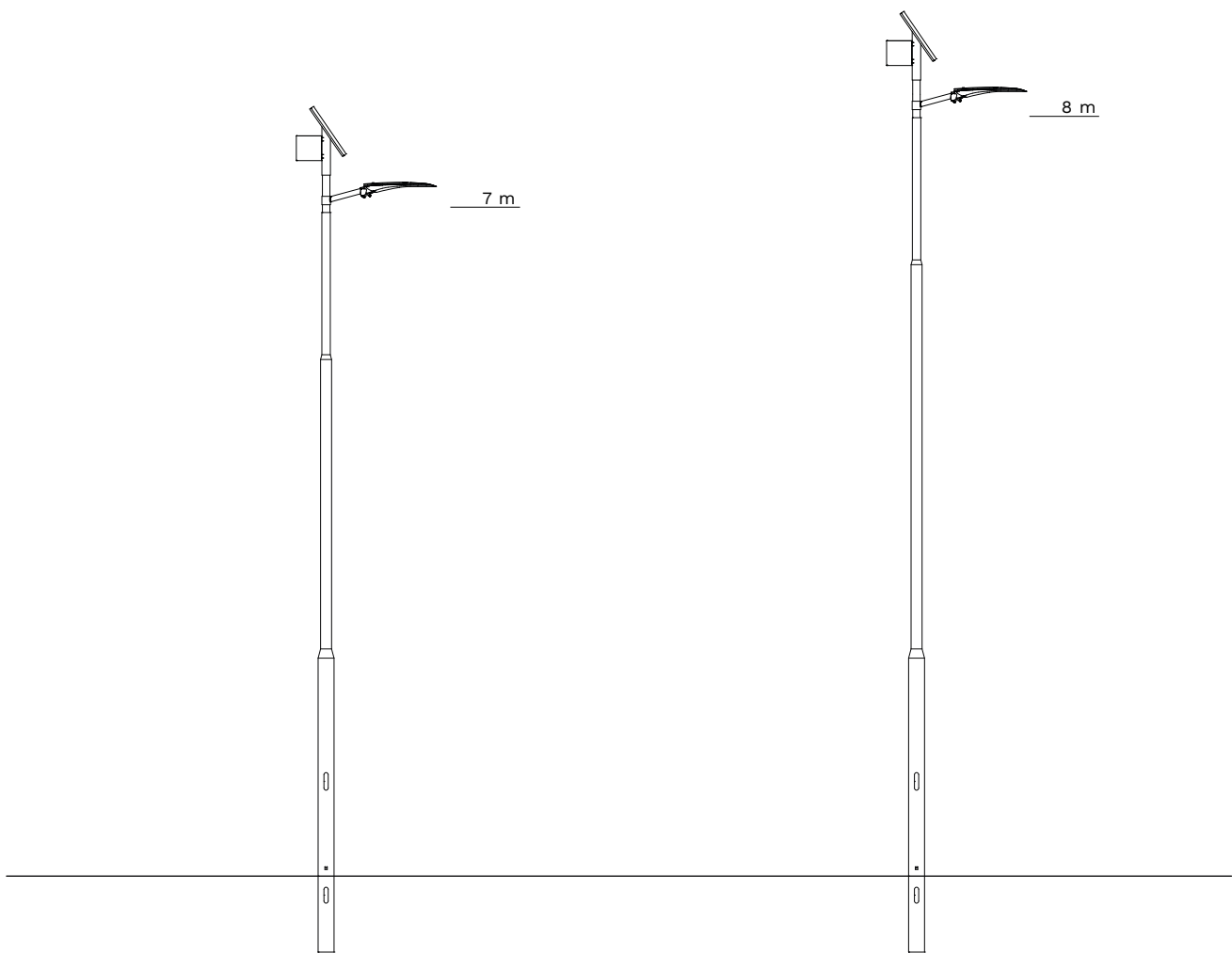
Wing Evo FV - low profile battery (in sump)
Wing Evo FV - high profile battery

- Palo conico dritto (fotovoltaico) Ø 89
- Palo rastremato dritto (fotovoltaico) Ø 89

WING EVO FV

Collection example / Esempio collezione





STRAIGHT TAPERED POLE
WING EVO FV

STRAIGHT TAPERED POLE
WING EVO FV

POLES AND ACCESSORIES

- 220 — Poles / Pali
- 235 — Outreaches / Sbracci
- 241 — Accessories / Accessori

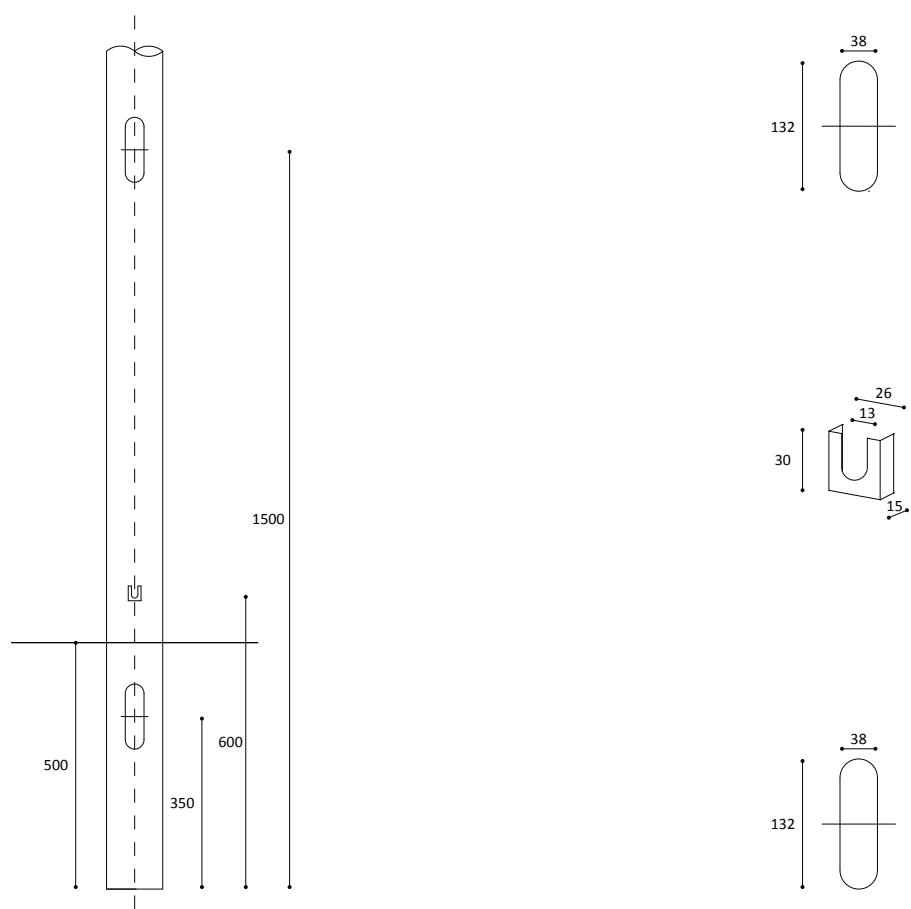
STANDARD CONFIGURATIONS

LAVORAZIONI STANDARD

For all cylindrical, tapered and conical poles / Per tutti i pali cilindrici, rastremati e conici

Machining for poles with a height below or equal to 6 metres.
Always size the thickness of the pole and arm on the basis of
the geographical area of installation.

Lavorazioni per pali con altezza inferiore o uguale a 6 metri.
Dimensionare sempre lo spessore di palo e sbraccio in base
all'area geografica di installazione.

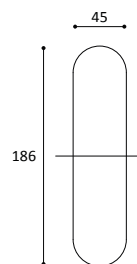
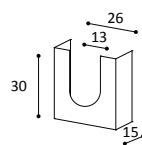
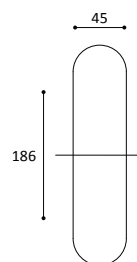
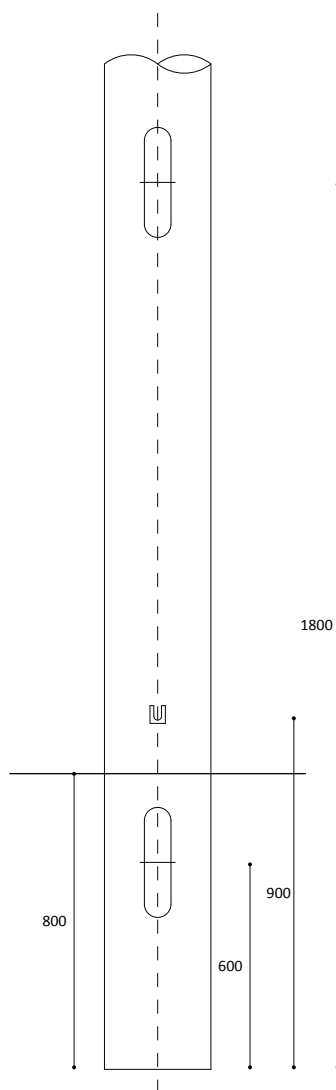


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For all cylindrical, tapered and conical poles / Per tutti i pali cilindrici, rastremati e conici

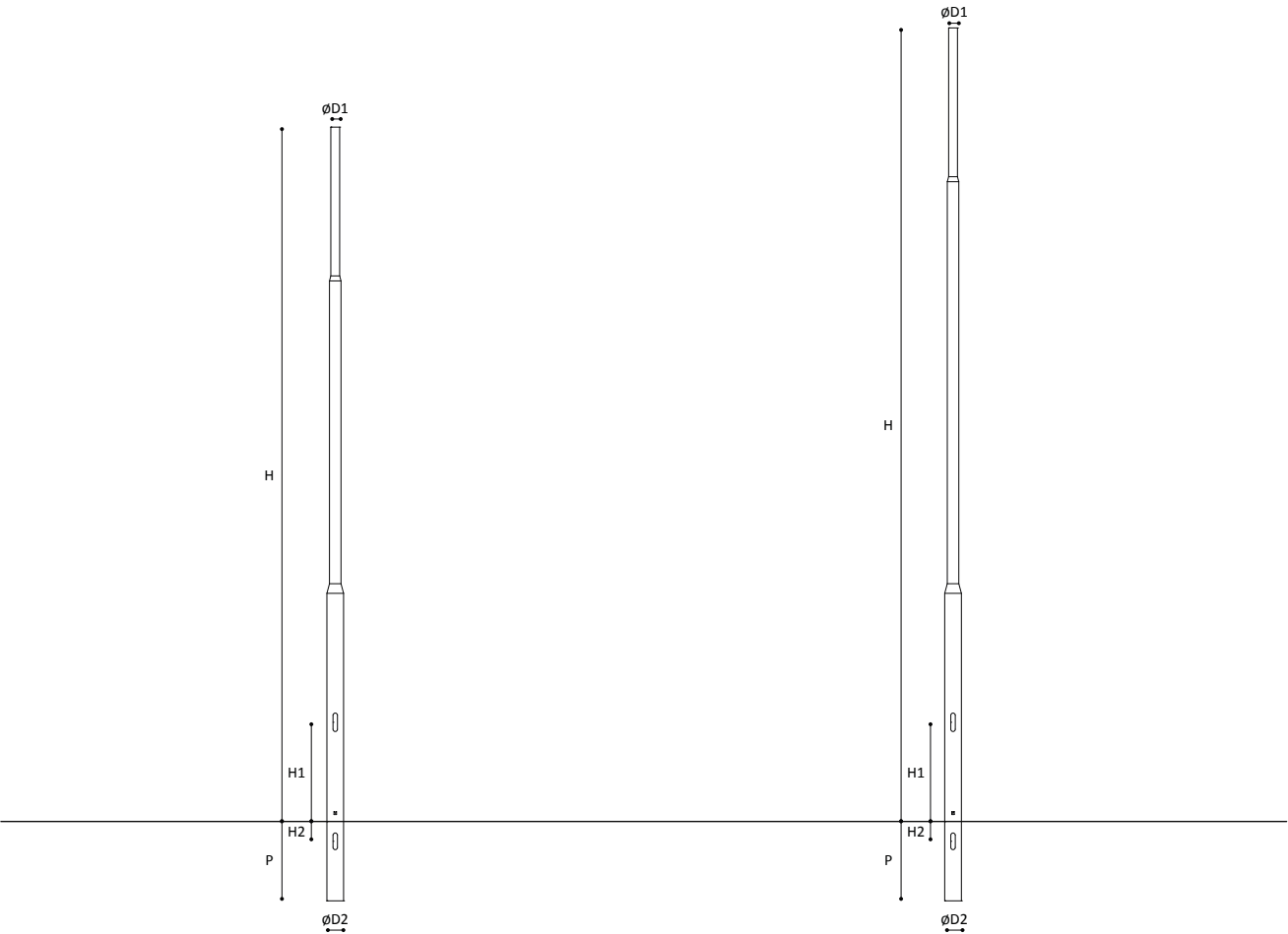
Machining for poles with a height above 6 metres.
Always size the thickness of the pole and arm on the basis of
the geographical area of installation.

Lavorazioni per pali con altezza superiore a 6 metri.
Dimensionare sempre lo spessore di palo e sbraccio in base
all'area geografica di installazione.



STRAIGHT TAPERED POLE

PALO RASTREMATO DRITTO



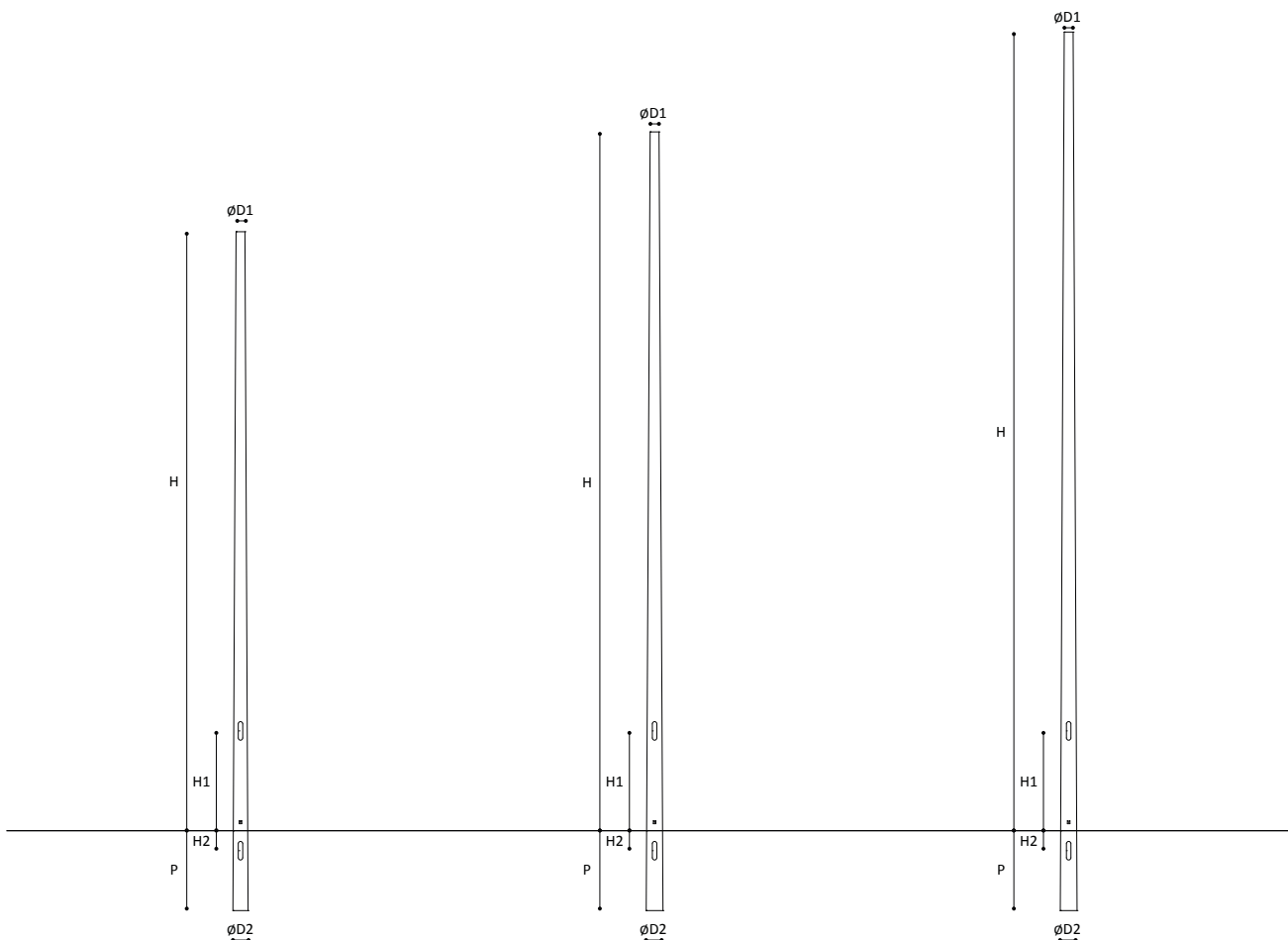
Exclusively for photovoltaic system / Esclusivo per sistema fotovoltaico

STRAIGHT TAPERED POLE - DIAMETER 89 MM - 4 MM THICK			
H - HEIGHT ABOVE GROUND		7,00	8,00
P - EMBEDMENT		800	800
D1 - Ø TOP		89	89
D2 - Ø BASE		168	168
H1 - HANDHOLE HEIGHT		1.000	1.000
H2 - CABLE ENTRANCE DEPTH		200	200
WEIGHT (KG)		121	131
P/N GALVANISED AND PAINTED		8PRA7089G842V	8PRA8089G842V
P/N GALVANISED		8PRA7089G842Z	8PRA8089G842Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

STRAIGHT CONICAL POLE

PALO CONICO DRITTO



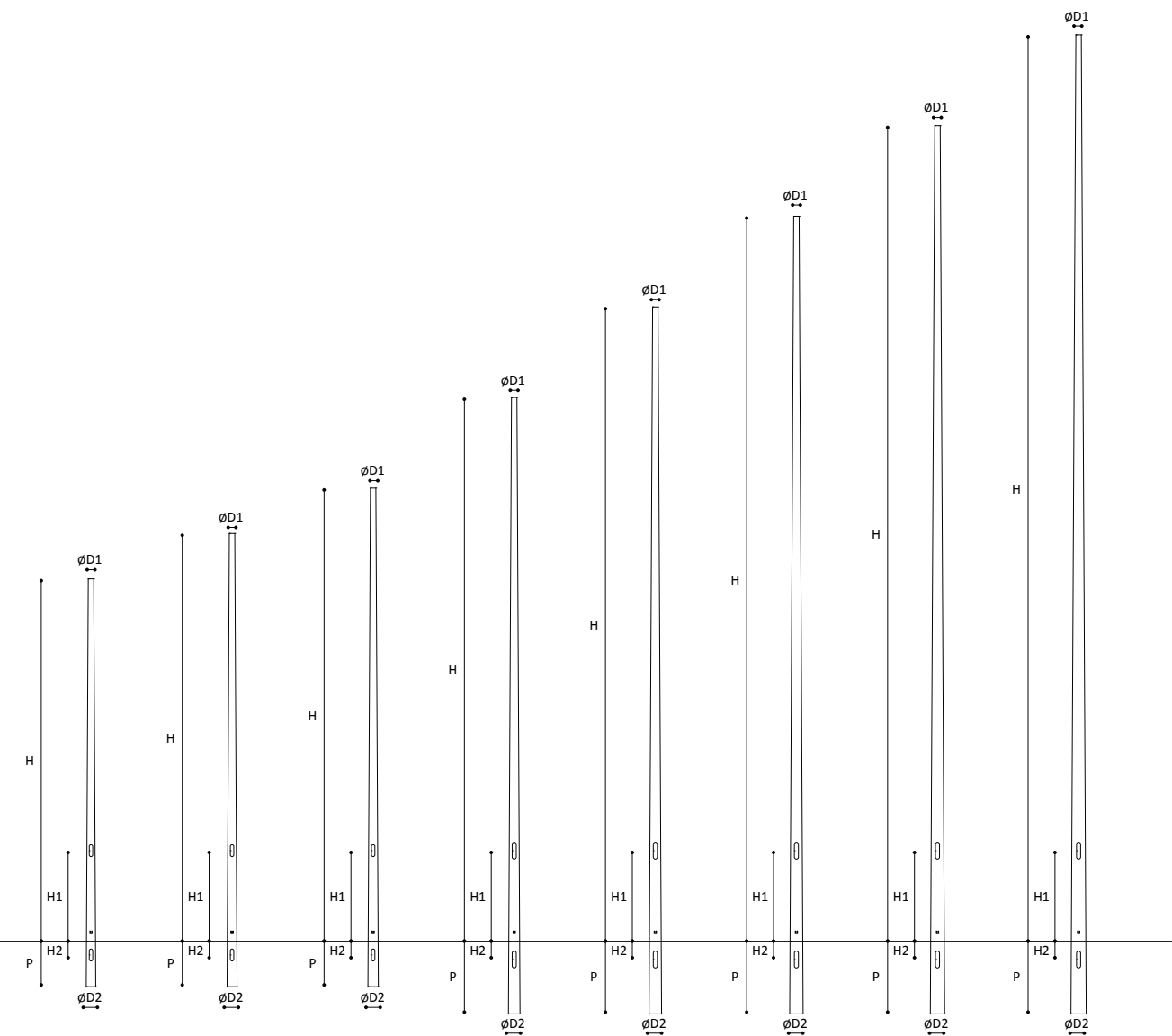
Exclusively for photovoltaic system / Esclusivo per sistema fotovoltaico

STRAIGHT CONICAL POLE - DIAMETER 89 MM - 4 MM THICK			
H - HEIGHT ABOVE GROUND	6,00	7,00	8,00
P - EMBEDMENT	800	800	800
D1 - Ø TOP	89	89	89
D2 - Ø BASE	152	168	168
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	200	200	200
WEIGHT (KG)	97	119	137
P/N GALVANISED AND PAINTED	8PCA6089F242V	8PCA7089G842V	8PCA8089G842V
P/N GALVANISED	8PCA6089F242Z	8PCA7089G842Z	8PCA8089G842Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

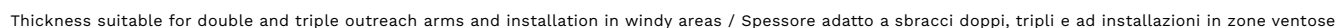
STRAIGHT CONICAL POLE

PALO CONICO DRITTO



STRAIGHT CONICAL POLE - DIAMETER 60 MM - 3 MM THICK								
H - HEIGHT ABOVE GROUND	4,00	4,50	5,00	6,00	7,00	8,00	9,00	10,00
P - EMBEDMENT	500	500	500	800	800	800	800	800
D1 - Ø TOP	60	60	60	60	60	60	60	60
D2 - Ø BASE	105	110	115	128	138	148	158	168
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	150	150	150	150	200	200	200	200
WEIGHT (KG)	27	31	35	46	55	55	79	93
P/N GALVANISED AND PAINTED	8PCA4060A531V	8PCA4560B031V	8PCA5060B531V	8PCA6060C831V	8PCA7060D831V	8PCA8060E831V	8PCA9060F831V	8PCAA060G831V
P/N GALVANISED	8PCA4060A531Z	8PCA4560B031Z	8PCA5060B531Z	8PCA6060C831Z	8PCA7060D831Z	8PCA8060E831Z	8PCA9060F831Z	8PCAA060G831Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

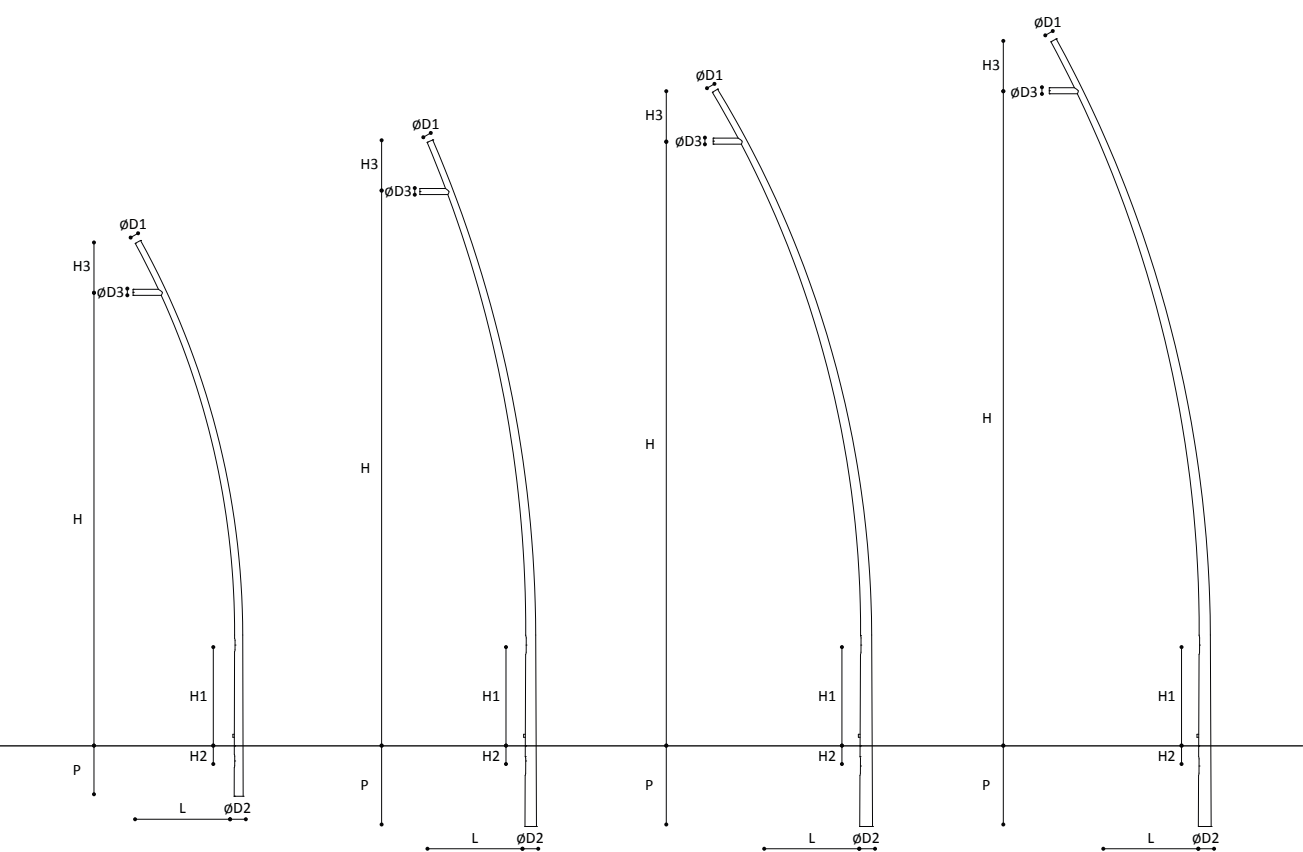


H - HEIGHT ABOVE GROUND	5,00	6,00	7,00	8,00	9,00	10,00	11,00	12,00
P - EMBEDMENT	500	800	800	800	800	800	800	800
D1 - Ø TOP	60	60	60	60	60	60	60	60
D2 - Ø BASE	115	128	138	148	158	168	178	188
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	150	150	200	200	200	200	200	200
WEIGHT (KG)	46	62	77	91	107	123	141	158
P/N GALVANISED AND PAINTED	8PCA5060B541V	8PCA6060C841V	8PCA7060D841V	8PCA8060E841V	8PCA9060F841V	8PCAA060G841V	8PCAB060H841V	8PCAC060I841V
P/N GALVANISED	8PCA5060B541Z	8PCA6060C841Z	8PCA7060D841Z	8PCA8060E841Z	8PCA9060F841Z	8PCAA060G841Z	8PCAB060H841Z	8PCAC060I841Z

225

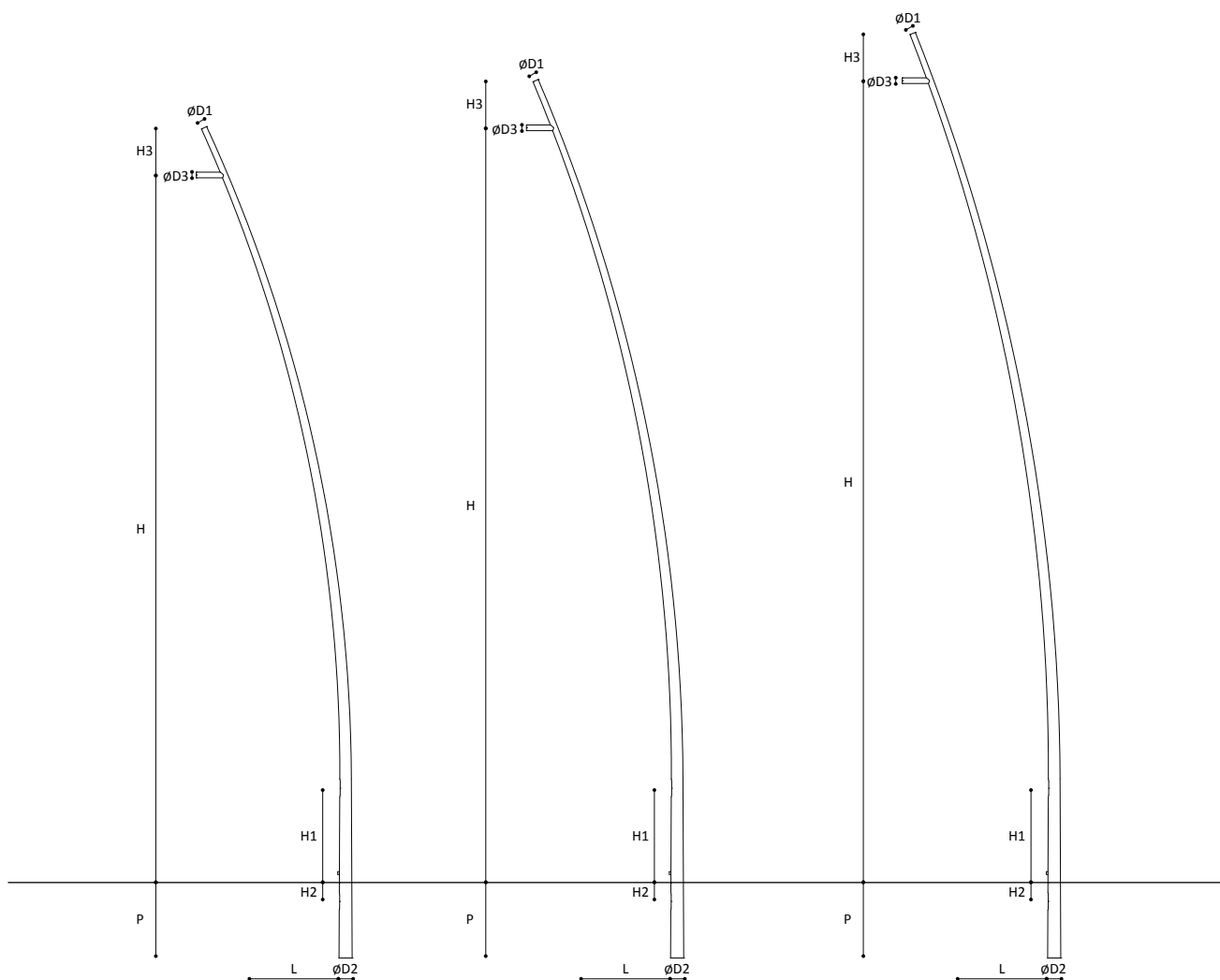
CURVED CONICAL POLE WITH OUTREACH ARM

PALO CONICO CURVATO CON SBRACCIO



CURVED CONICAL POLE WITH OUTREACH ARM - DIAMETER 60 MM				
H - HEIGHT ABOVE GROUND	4,50	5,50	6,00	6,50
P - EMBEDMENT	500	800	800	800
L - WIDTH	1.020	1.080	1.470	1.500
D1 - Ø TOP	60	60	60	60
D2 - Ø BASE	89	114	127	127
D3 - Ø OUTREACH ARM	60	60	60	60
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	150	150	150	200
H3 - TIP HEIGHT	500	500	500	500
WEIGHT (KG)	40	69	77	87
P/N GALVANISED AND PAINTED	8PCF45608931V	8PCF55608431V	8PCF6060C741V	8PCF6560C741V
P/N GALVANISED	8PCF45608931Z	8PCF55608431Z	8PCF6060C741Z	8PCF6560C741Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

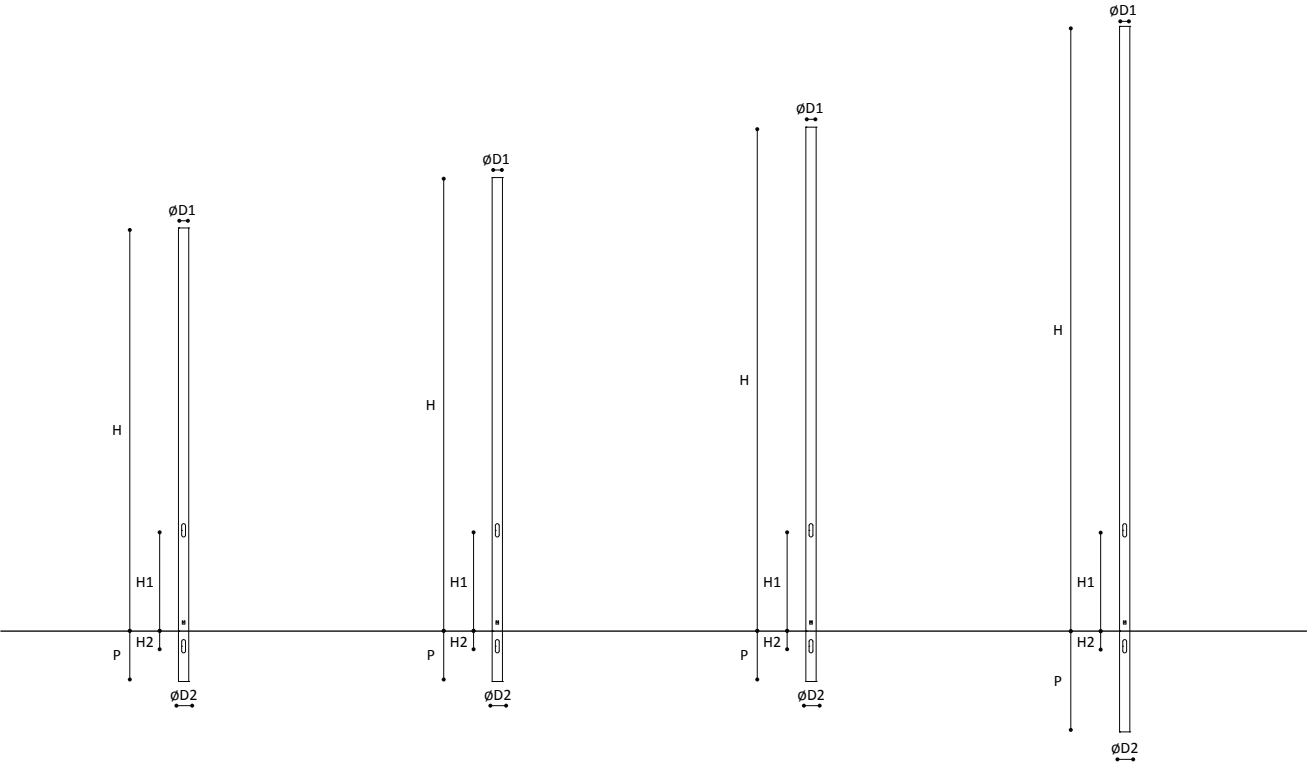


CURVED CONICAL POLE WITH OUTREACH ARM - DIAMETER 60 MM

H - HEIGHT ABOVE GROUND	7,50	8,00	8,50
P - EMBEDMENT	800	800	800
L - WIDTH	1.540	1.550	1.565
D1 - Ø TOP	60	60	60
D2 - Ø BASE	139	139	139
D3 - Ø OUTREACH ARM	60	60	60
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	200	200	200
H3 - TIP HEIGHT	500	500	500
WEIGHT (KG)	103	115	117
P/N GALVANISED AND PAINTED	8PCF7560D941V	8PCF8060D941V	8PCF8560D941V
P/N GALVANISED	8PCF7560D941Z	8PCF8060D941Z	8PCF8560D941Z

STRAIGHT CYLINDRICAL POLE

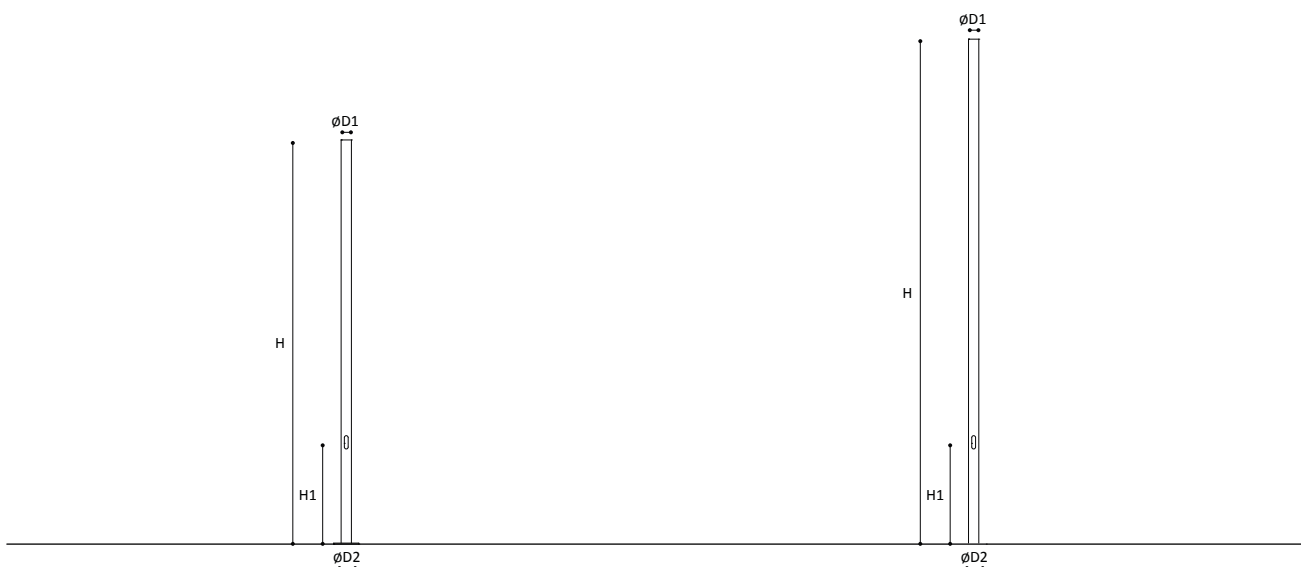
PALO CILINDRICO DRITTO



STRAIGHT CYLINDRICAL POLE - DIAMETER 102 MM - 3 MM THICK				
H - HEIGHT ABOVE GROUND	4,00	4,50	5,00	6,00
P - EMBEDMENT	500	500	500	1.000
D1 - Ø TOP	102	102	102	102
D2 - Ø BASE	102	102	102	102
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	150	150	150	150
WEIGHT (KG)	35	39	43	64
P/N GALVANISED AND PAINTED	8PTA40A2A231V	8PTA45A2A231V	8PTA50A2A231V	8PTA60A2A231V
P/N GALVANISED	8PTA40A2A231Z	8PTA45A2A231Z	8PTA50A2A231Z	8PTA60A2A231Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

STRAIGHT FLANGED CYLINDRICAL POLE PALO CILINDRICO DRITTO FLANGIATO



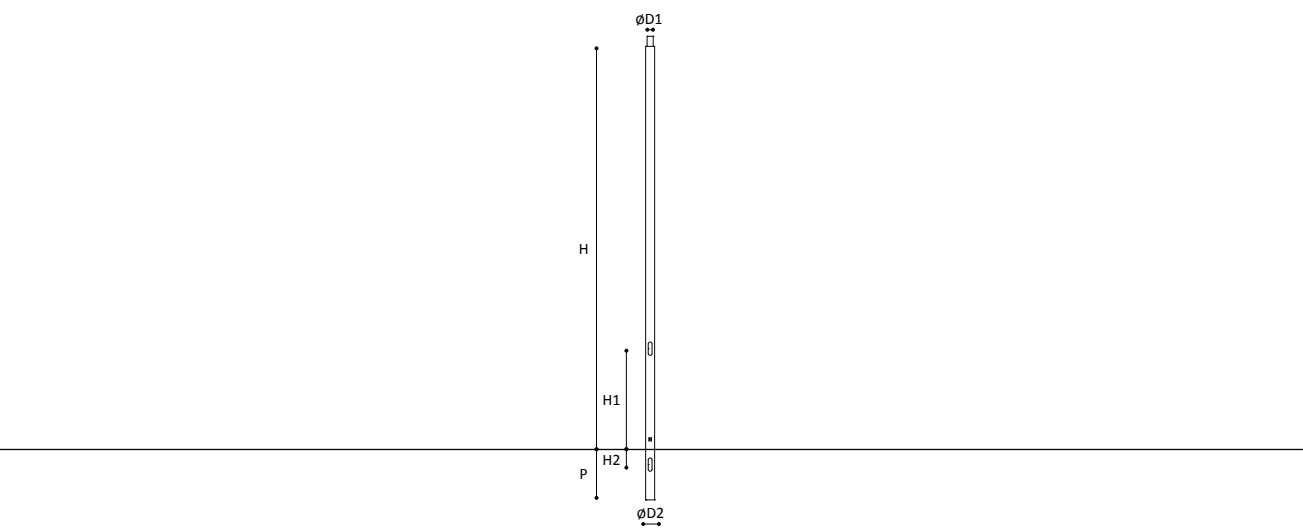
STRAIGHT FLANGED CYLINDRICAL POLE - DIAMETER 102 MM - 3 MM THICK

H - HEIGHT ABOVE GROUND	4,00	5,00
D1 - Ø TOP	102	102
D2 - Ø BASE	102	102
H1 - HANDHOLE HEIGHT	1.000	1.000
WEIGHT (KG)	37	45
P/N GALVANISED AND PAINTED	8PTL40A2A233V	8PTL50A2A233V
P/N GALVANISED	8PTL40A2A233Z	8PTL50A2A233Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

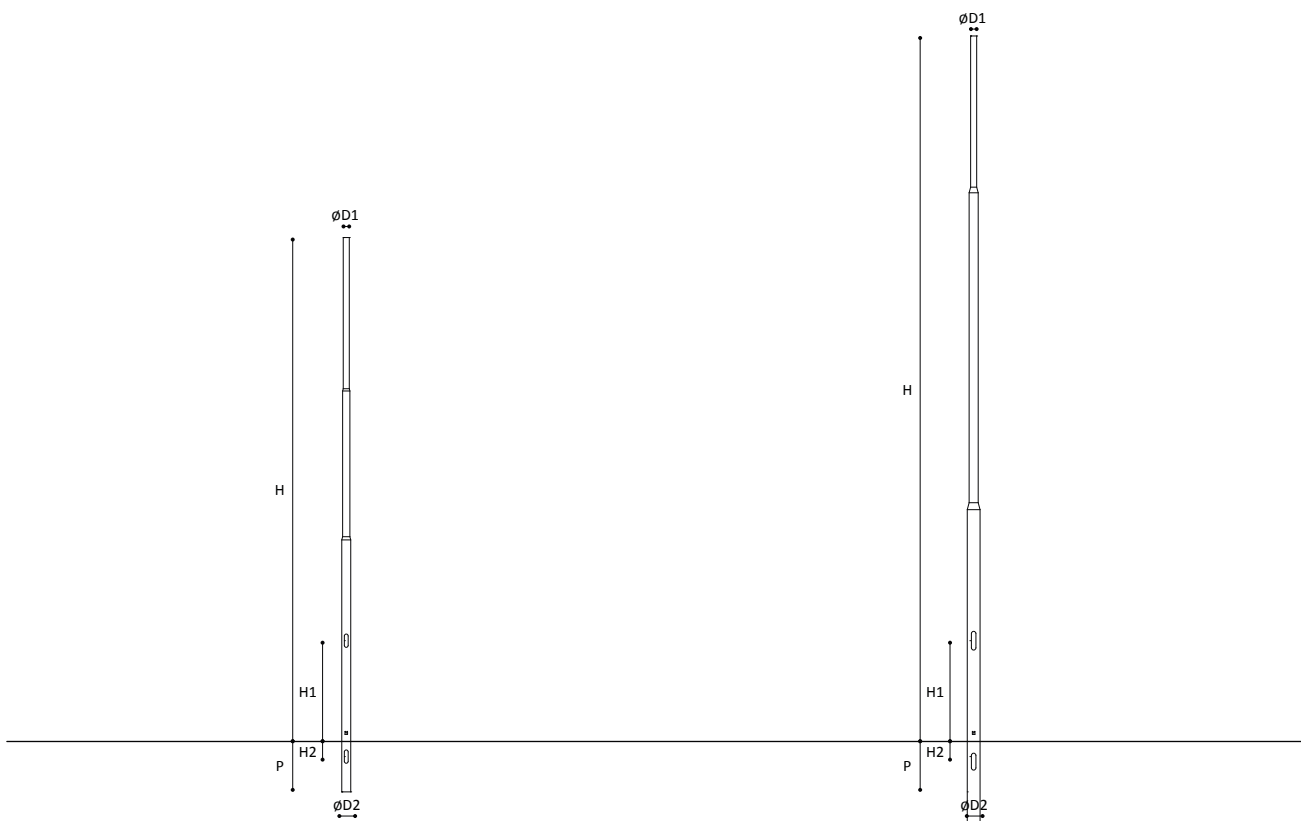
STRAIGHT CYLINDRICAL POLE WITH TENON

PALO CILINDRICO DRETTO CON CODOLO



STRAIGHT CYLINDRICAL POLE WITH TENON - DIAMETER 60 MM - 3 MM THICK	
H - HEIGHT ABOVE GROUND	4,00
P - EMBEDMENT	500
D1 - Ø TOP	60
D2 - Ø BASE	89
H1 - HANDHOLE HEIGHT	1.000
H2 - CABLE ENTRANCE DEPTH	150
WEIGHT (KG)	25
P/N GALVANISED AND PAINTED	8PTA40608931V
P/N GALVANISED	8PTA40608931Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.



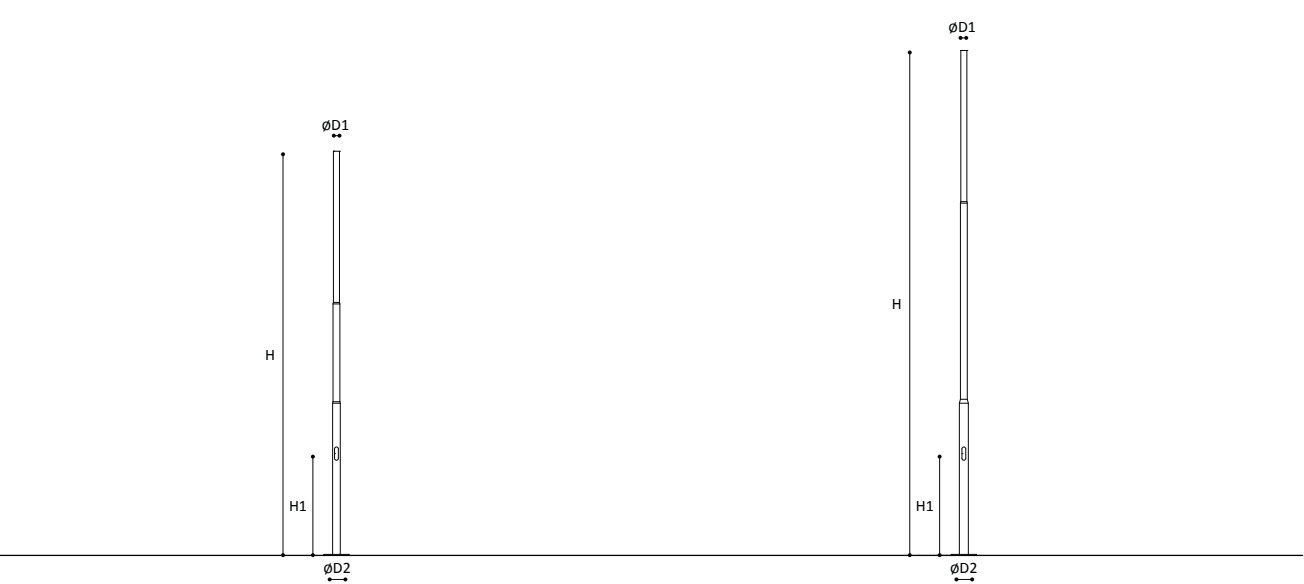
STRAIGHT TAPERED POLE - DIAMETER 60 MM

H - HEIGHT ABOVE GROUND	5,00	7,00
P - EMBEDMENT	500	800
D1 - Ø TOP	60	60
D2 - Ø BASE	89	127
H1 - HANDHOLE HEIGHT	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	150	200
WEIGHT (KG)	35	63
P/N GALVANISED AND PAINTED	8PRA50608931V	8PRA7060C731V
P/N GALVANISED	8PRA50608931Z	8PRA7060C731Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

STRAIGHT FLANGED TAPERED POLE

PALO RASTREMATO DRITTO FLANGIATO

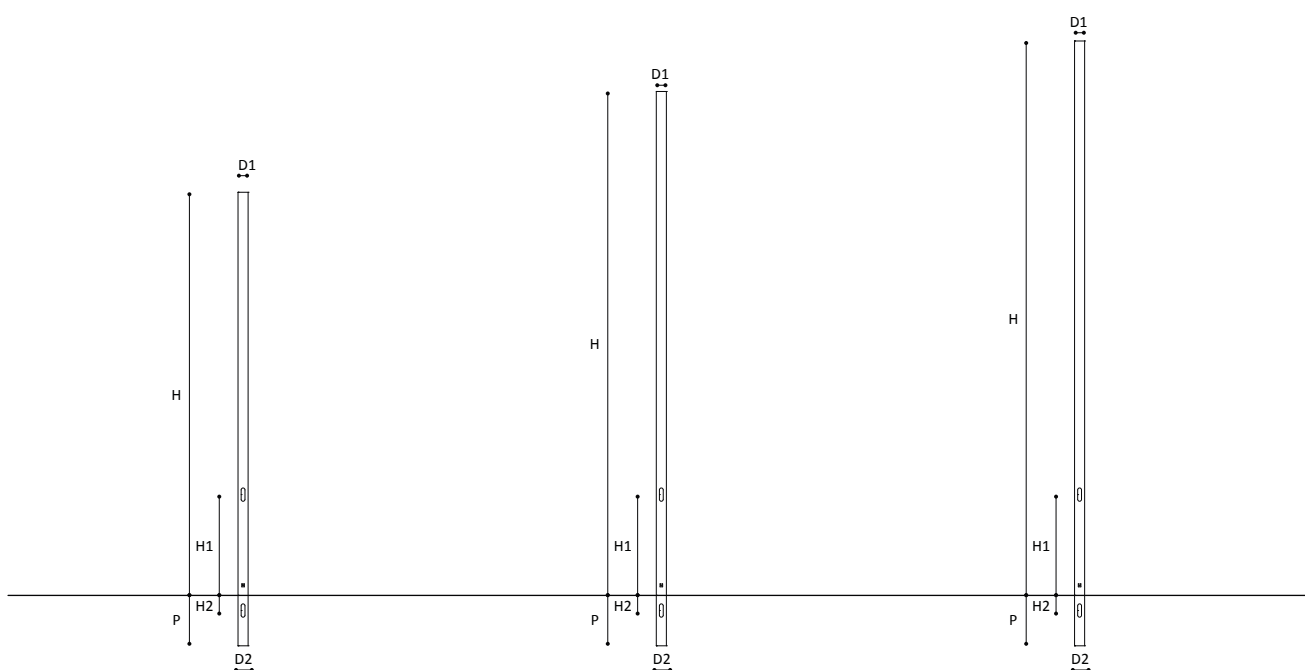


STRAIGHT FLANGED TAPERED POLE - DIAMETER 60 MM			
H - HEIGHT ABOVE GROUND		4,00	5,00
D1 - Ø TOP		60	60
D2 - Ø BASE		76	89
H1 - HANDHOLE HEIGHT		1.000	1.000
WEIGHT (KG)		25	32
P/N GALVANISED AND PAINTED		8PRL40607633V	8PRL50608933V
P/N GALVANISED		8PRL40607633Z	8PRL50608933Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

STRAIGHT FLANGED TAPERED POLE

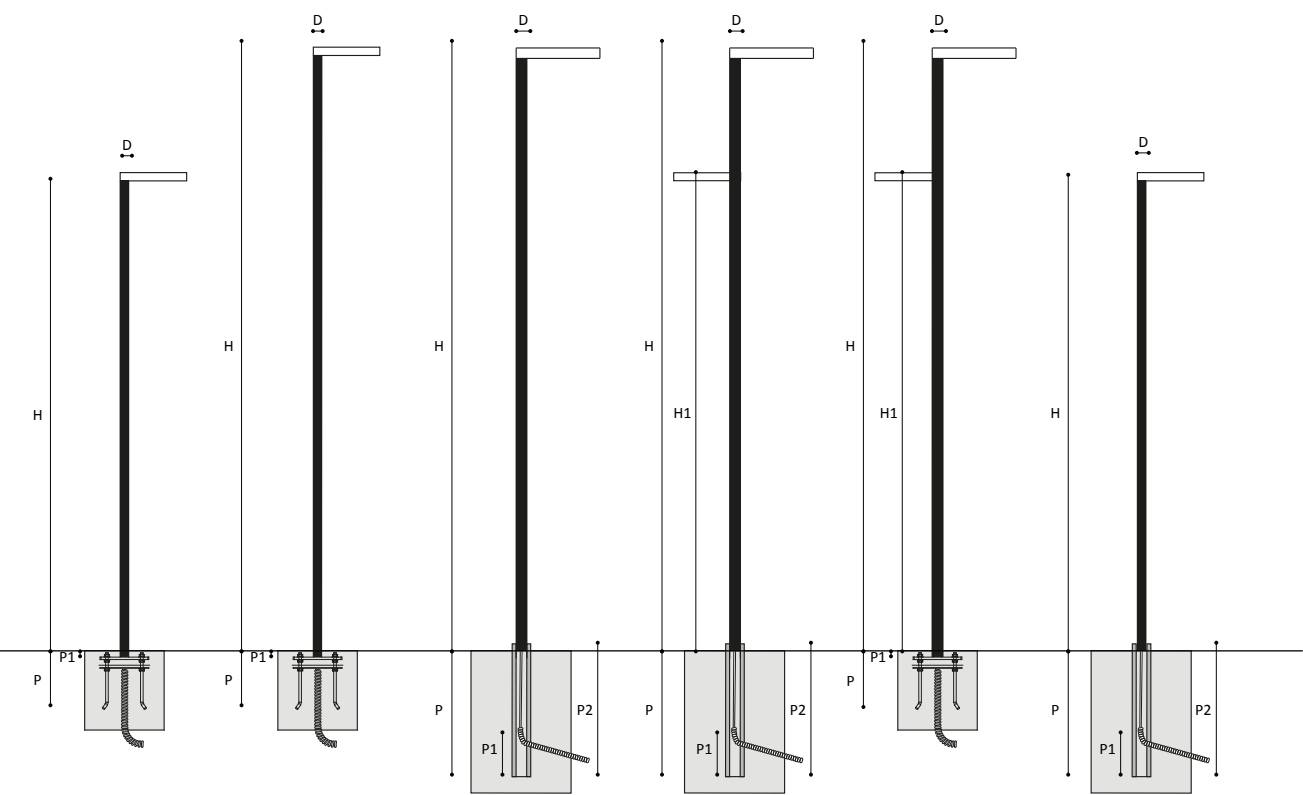
PALO RASTREMATO DRITTO FLANGIATO



STRAIGHT SQUARE POLE - BASE 100 X 100 MM - 3 MM THICK			
H - HEIGHT ABOVE GROUND	4,00	5,00	5,50
P - EMBEDMENT	500	500	500
D1 - TOP	100 x 100	100 x 100	100 x 100
D2 - BASE	100 x 100	100 x 100	100 x 100
H1 - HANDHOLE HEIGHT	1.000	1.000	1.000
H2 - CABLE ENTRANCE DEPTH	150	150	150
WEIGHT (KG)	35	43	47
P/N GALVANISED AND PAINTED	8PQS40A0A031V	8PQS50A0A031V	8PQS55A0A031V
P/N GALVANISED	8PQS40A0A031Z	8PQS50A0A031Z	8PQS55A0A031Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

TEMA POLE
PALO TEMA

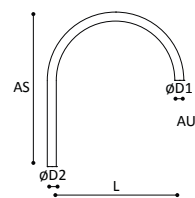
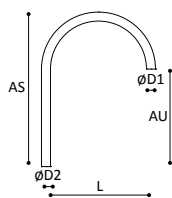
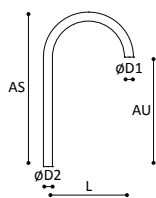


TEMA POLE - 200 X 50 MM						
H - HEIGHT ABOVE GROUND	3,00	4,00	4,00	4,00	4,00	3,00
P - EMBEDMENT	350	350	600	600	350	600
D - SECTION	200 X 50	200 X 50	200 X 50	200 X 50	200 X 50	200 X 50
H1 - LUMINAIRE HEIGHT	/	/	/	3.000	3.000	/
P1	30	30	165	165	30	165
P2	/	/	650	650	/	650
WEIGHT (KG)	42	48	28	28	42	22
P/N GALVANISED AND PAINTED	D67/PP300-GR	D67/PP400-GR	D67/PI400-GR	D67/PID400-GR	D67/PPD400-GR	D67/PI300-GR

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

DECORATIVE OUTREACH ARM WITH CAP

SBRACCIO PASTORALE CON TAPPO

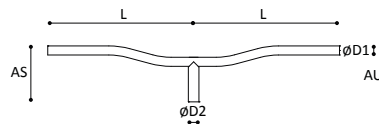
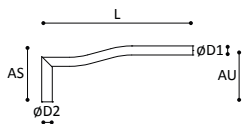


DECORATIVE OUTREACH ARM WITH CAP - DIAMETER 60 MM

DESCRIPTION	SMALL	MEDIUM	LARGE
L - LENGTH	540	700	850
AS - OUTREACH ARM HEIGHT	1.000	1.000	1.000
AU - USEFUL HEIGHT	730	650	570
D1 - Ø LAMP ATTACHMENT	60	60	60
D2 - Ø OUTREACH ARM	60	60	60
NUMBER OF BRACKETS	2	2	2
WEIGHT (KG)	7	8	9
P/N GALVANISED AND PAINTED	930482	930480	930481
P/N GALVANISED	930482Z	930480Z	930481Z

ARIS OUTREACH ARMS

SBRACCI ARIS



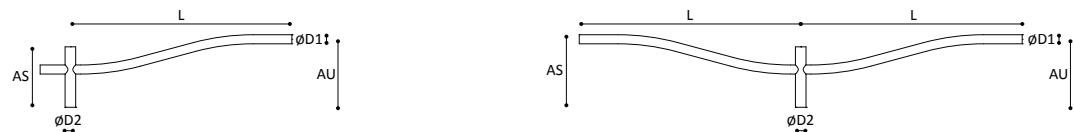
ARIS OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1.000	2 X 1.000
AS - OUTREACH ARM HEIGHT	370	370
AU - USEFUL HEIGHT	340	340
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	70	70
WEIGHT (KG)	6	12
P/N GALVANISED AND PAINTED	8SARIS16060V	8SARIS26060V
P/N GALVANISED	8SARIS16060Z	8SARIS26060Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

LIBRA OUTREACH ARMS

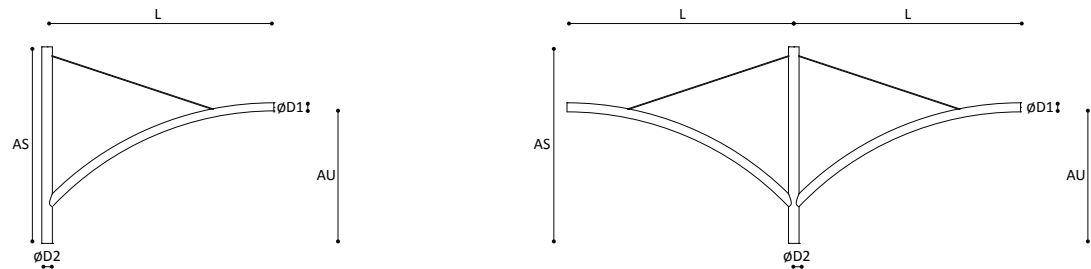
SBRACCI LIBRA



LIBRA OUTREACH ARMS - DIAMETER 60 MM		
DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1.500	2 x 1.500
AS - OUTREACH ARM HEIGHT	480	480
AU - USEFUL HEIGHT	450	450
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	70	70
WEIGHT (KG)	11	17
P/N GALVANISED AND PAINTED	8SLIBRA16060V	8SLIBRA26060V
P/N GALVANISED	8SLIBRA16060Z	8SLIBRA26060Z

VELA OUTREACH ARMS

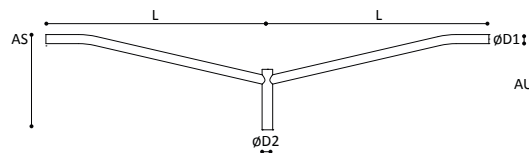
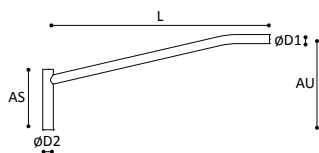
SBRACCI VELA



VELA OUTREACH ARMS - DIAMETER 60 MM		
DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1.500	2 X 1.500
AS - OUTREACH ARM HEIGHT	1.300	1.300
AU - USEFUL HEIGHT	900	900
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	70	70
WEIGHT (KG)	24	33
P/N GALVANISED AND PAINTED	8SVELA16060V	8SVELA26060V
P/N GALVANISED	8SVELA16060Z	8SVELA26060Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

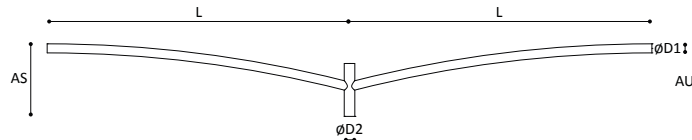
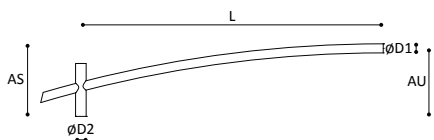
TEMA OUTREACH ARMS SBRACCI TEMA



TEMA OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1.500	2 x 1.500
AS - OUTREACH ARM HEIGHT	630	630
AU - USEFUL HEIGHT	600	600
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	70	70
WEIGHT (KG)	8,5	16
P/N GALVANISED AND PAINTED	8STEMA16060V	8STEMA26060V
P/N GALVANISED	8STEMA16060Z	8STEMA26060Z

HINDI OUTREACH ARMS SBRACCI HINDI



HINDI OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	2.000	2 X 2.000
AS - OUTREACH ARM HEIGHT	480	480
AU - USEFUL HEIGHT	450	450
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	70	70
WEIGHT (KG)	13	23
P/N GALVANISED AND PAINTED	8SHINDI16060V	8SHINDI26060V
P/N GALVANISED	8SHINDI16060Z	8SHINDI26060Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

TEAR LIGHT OUTREACH ARMS

SBRACCI TEAR LIGHT



TEAR LIGHT OUTREACH ARMS - DIAMETER 60 MM		
DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	620	2 x 620
AS - OUTREACH ARM HEIGHT	600	600
AU - USEFUL HEIGHT	290	290
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	102	102
P/N GALVANISED AND PAINTED	8STEAR1A260V	8STEAR2A260V
P/N GALVANISED	8STEAR1A260Z	8STEAR2A260Z

TEAR XL OUTREACH ARMS

SBRACCI TEAR XL

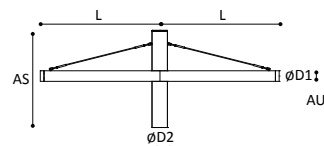
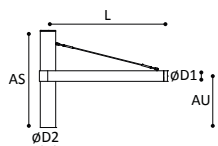


TEAR XL OUTREACH ARMS - DIAMETER 60 MM		
DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	910	2 X 910
AS - OUTREACH ARM HEIGHT	600	600
AU - USEFUL HEIGHT	290	290
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	102	102
P/N GALVANISED AND PAINTED	8STEXL1A260V	8STEXL2A260V
P/N GALVANISED	8STEXL1A260Z	8STEXL2A260Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

ANTICA OUTREACH ARMS

SBRACCI ANTICA



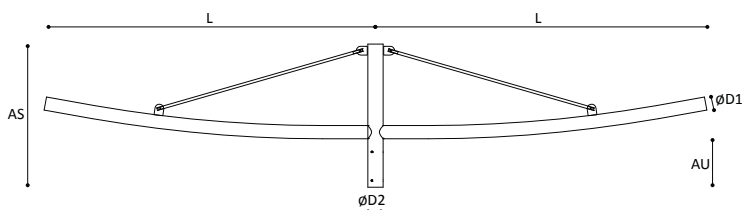
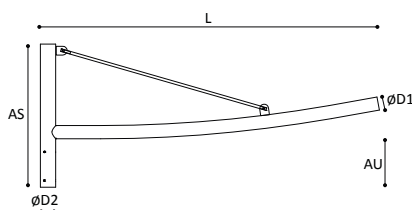
ANTICA OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	910	2 x 910
AS - OUTREACH ARM HEIGHT	600	600
AU - USEFUL HEIGHT	290	290
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	102	102
P/N GALVANISED AND PAINTED	8STEXL1A260V	8STEXL2A260V
P/N GALVANISED	8STEXL1A260Z	8STEXL2A260Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

WING OUTREACH ARMS

SBRACCI WING



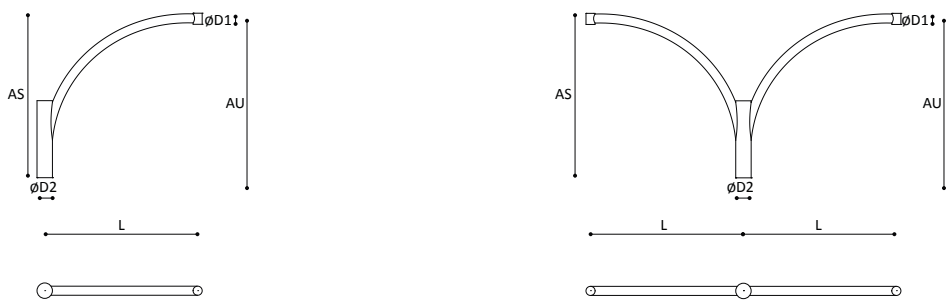
WING OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1500	2 x 1500
AS - OUTREACH ARM HEIGHT	750	750
AU - USEFUL HEIGHT	285	285
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	76	76
P/N GALVANISED AND PAINTED	8SWING16060V	8SWING26060V
P/N GALVANISED	8SWING16060Z	8SWING26060Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

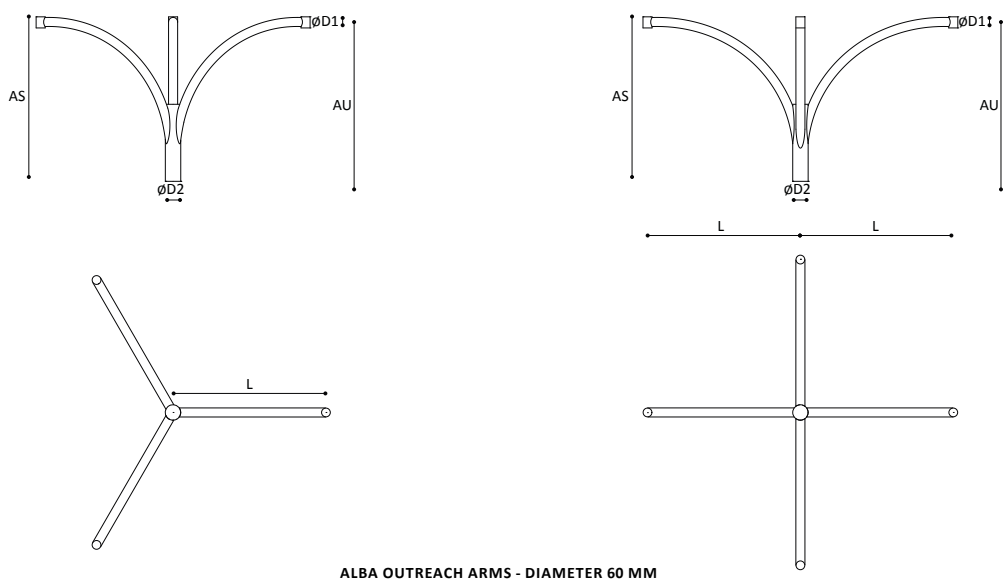
ALBA OUTREACH ARMS

SBRACCI ALBA



ALBA OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1.010	2 x 1.010
AS - OUTREACH ARM HEIGHT	1.080	1.080
AU - USEFUL HEIGHT	1.010	1.010
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	102	102
P/N GALVANISED AND PAINTED	8SALBA1A260V	8SALBA2A260V
P/N GALVANISED	8SALBA1A260Z	8SALBA2A260Z



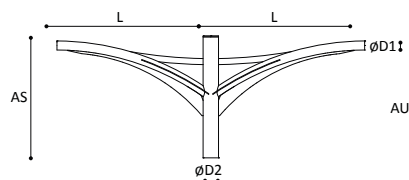
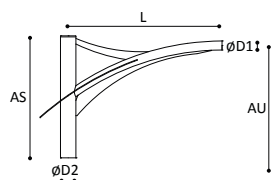
ALBA OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	TRIPLE	QUADRUPLE
L - LENGTH	3 x 1.010	4 x 1.010
AS - OUTREACH ARM HEIGHT	1.080	1.080
AU - USEFUL HEIGHT	1.010	1.010
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	102	102
P/N GALVANISED AND PAINTED	8SALBA3A260V	8SALBA4A260V
P/N GALVANISED	8SALBA3A260Z	8SALBA4A260Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

EVO OUTREACH ARMS

SBRACCI EVO

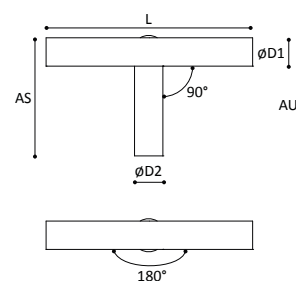
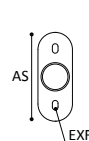
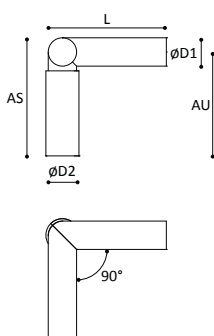
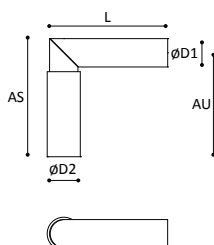


EVO OUTREACH ARMS - DIAMETER 60 MM

DESCRIPTION	SINGLE	DOUBLE
L - LENGTH	1.010	2 x 1.010
AS - OUTREACH ARM HEIGHT	800	800
AU - USEFUL HEIGHT	740	740
D1 - Ø LAMP ATTACHMENT	60	60
D2 - Ø OUTREACH ARM	102	102
P/N GALVANISED AND PAINTED	8SEVO1A260V	8SEVO2A260V
P/N GALVANISED	8SEVO1A260Z	8SEVO2A260Z

POST HEAD

TESTA PALO



POST HEAD - 90° ANGLE

POST HEAD - 180° ANGLE

DESCRIPTION	SINGLE	DOUBLE	SINGLE SIDE BRACKET	DOUBLE
AS - OUTREACH ARM HEIGHT	250	250	188	250
L - LENGTH	250	250	250	500
D1 - Ø LAMP ATTACHMENT	60	60	60	60
D2 - Ø POLE ATTACHMENT	70	70	-	70
CLOSING	WITH GRUB SCREWS	WITH GRUB SCREWS	WITH SCREWS	WITH GRUB SCREWS
WEIGHT (KG)	2	4	1,5	3,5
P/N GALVANISED AND PAINTED	930273V	930272V	930274V	8L160026025V
P/N GALVANISED	930273	930272	930274	8L160026025Z

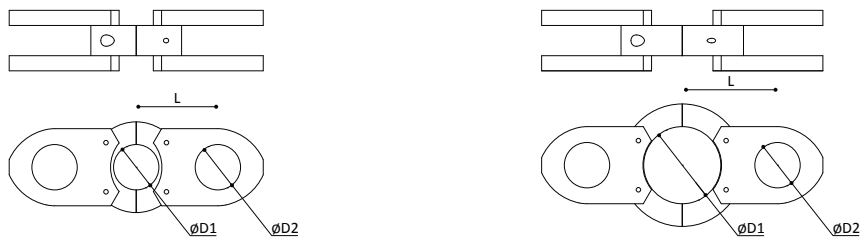
All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

BRACKETS ACCOPPIATORI



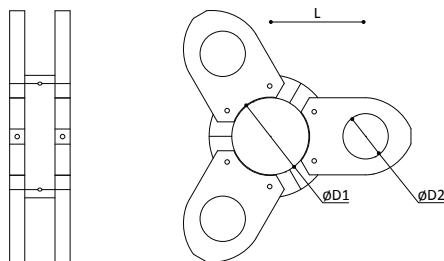
BRACKET FOR DECORATIVE OUTREACH ARM - DIAMETER 60 MM

DESCRIPTION	SINGLE SMALL BRACKET	SINGLE LARGE BRACKET
D1 - Ø POLE	60	102
D2 - Ø OUTREACH ARM	60	60
L - POLE/OUTREACH ARM DISTANCE	110	110
CLOSING	WITH GRUB SCREWS	WITH GRUB SCREWS
WEIGHT (KG)	1,28	1,7
P/N DIE-CAST ALUMINIUM	20102	20101
P/N POWDER COAT	20102VP	20101VP



BRACKET FOR DECORATIVE OUTREACH ARM - DIAMETER 60 MM

DESCRIPTION	DOUBLE SMALL BRACKET	DOUBLE LARGE BRACKET
D1 - Ø POLE	60	102
D2 - Ø OUTREACH ARM	2 x 60	2 x 60
L - POLE/OUTREACH ARM DISTANCE	110	130
CLOSING	WITH GRUB SCREWS	WITH GRUB SCREWS
WEIGHT (KG)	2	2,6
P/N DIE-CAST ALUMINIUM	20106	20104
P/N POWDER COAT	20106VP	20104VP



BRACKET FOR DECORATIVE OUTREACH ARM - DIAMETER 60 MM

DESCRIPTION	TRIPLE BRACKET
D1 - Ø POLE	102
D2 - Ø OUTREACH ARM	3 x 60
L - POLE/OUTREACH ARM DISTANCE	130
CLOSING	WITH GRUB SCREWS
WEIGHT (KG)	5,3
P/N DIE-CAST ALUMINIUM	20105
P/N POWDER COAT	20105VP

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

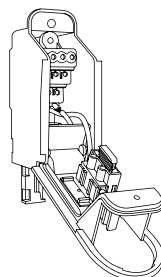
HANDHOLE COVERS WITH KEY PORTELLE CON CHIAVE



HANDHOLE COVERS WITH KEY - ALUMINIUM

DESCRIPTION	SMALL	LARGE	FLUSH WITH POLE	FLAT (only for MODA lamp)
SLOT	132 x 38	186 x 45	186 x 45	210 x 74
Ø POLE	76 : 114	114 : 180	89 : 168	100 x 100 (straight square pole)
WEIGHT (KG)	0,18	0,25	0,12	-
P/N DIE-CAST ALUMINIUM	MEPRT076 / 114	MEPRT114 / 180	MEPRF089 / 168	MEPRTLNSMWP
P/N POWDER COAT	MEPRT076 / 114V	MEPRT114 / 180V	MEPRF089 / 168V	MEPRTLNSMWPV

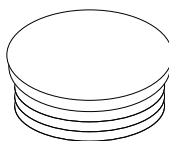
TERMINAL BLOCK MORSETTIERA



TERMINAL BLOCK - WITH FUSE CARRIER

DESCRIPTION	1 - 5 x 20	2 - 5 x 20	1 - 8,5 x 31,5	2 - 8,5 x 31,5
Ø POLE	76 : 114	76 : 114	114 : 180	114 : 180
SLOT	132 x 38	132 x 38	186 x 45	186 x 45
TERMINALS PER SECTION	4 x 6	4 x 6	4 x 16	4 x 16
WEIGHT (KG)	0,18	0,20	0,38	0,40
PART NUMBER	MEMRST076 114	MEMRS2076 / 114	MEMRST114 / 180	MEMRS2114 / 180

END CAP TAPPO DI CHIUSURA



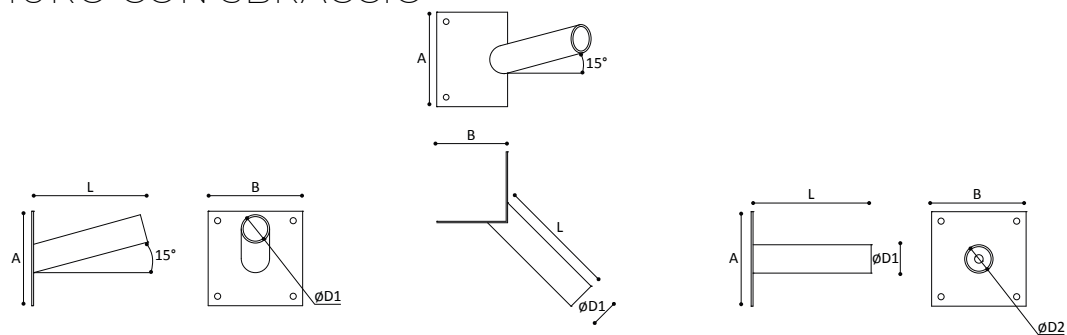
END CAP - ANTIFREEZE PLASTIC

DESCRIPTION	POLE Ø 60	POLE Ø 76	POLE Ø 89	POLE Ø 102	POLE Ø 114	POLE Ø 120	POLE Ø 127
WEIGHT (KG)	0,037	0,43	0,53	0,63	0,63	0,63	0,63
PART NUMBER	TAPPO60	TAPPO76	TAPPO89	TAPPO102	TAPPO114	TAPPO120	TAPPO127

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

WALL PLATE WITH OUTREACH ARM

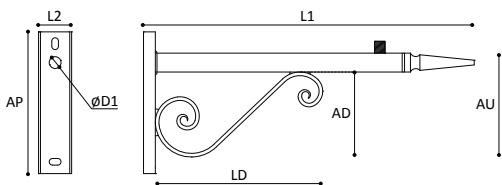
PIASTRA A MURO CON SBRACCIO



WALL PLATE WITH OUTREACH ARM - DIAMETER 60 MM			
DESCRIPTION	FOR 15° LAMPS	FOR 15° LAMPS	FOR 0° LAMPS
L - LENGTH	250	250	250
A- HEIGHT	200	300	200
B - WIDTH	200	200	200
D - Ø	60	60	60
WEIGHT (KG)	3,4	3,4	3,4
P/N GALVANISED AND PAINTED	930800	930801	930802
P/N GALVANISED	930800Z	930801Z	930802Z

STYLISH WALL PLATE

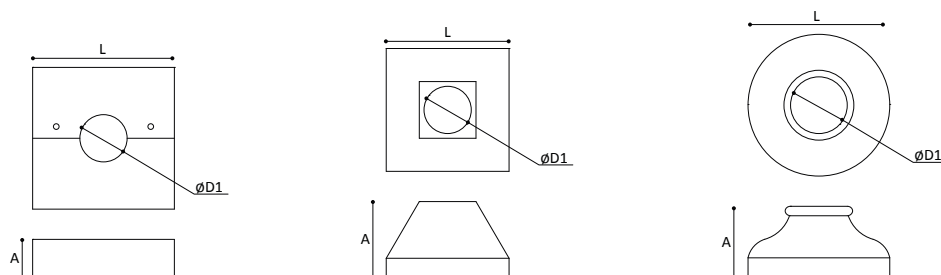
PIASTRA A MURO IN STILE



STYLISH WALL PLATE - ONLY FOR ROMANTIC LAMP	
DESCRIPTION	STYLISH WALL PLATE
L1 - LENGTH	700
LD - DECORATION LENGTH	355
L2 - WIDTH	70
AP - PLATE HEIGHT	300
AD - DECORATION HEIGHT	175
AU - USEFUL HEIGHT	255
D1 - Ø ARM COUPLING	25
P/N GALVANISED AND PAINTED	8SUSTIC1A221V
P/N GALVANISED	8SUSTIC1A221Z

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

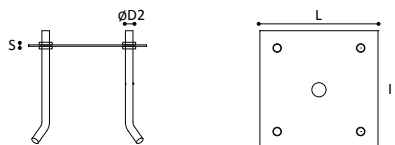
BASE FOR POLES BASE PER PALI



BASE FOR POLES - ALUMINIUM

DESCRIPTION	SQUARE BASE	PYRAMID BASE	ROUND BASE
A - HEIGHT	80	160	150
D1 - Ø POLE	76 : 102	76 : 127	89 : 152
L - WIDTH	300 x 300	260 x 260	Ø 300
WEIGHT (KG)	3,5	3,2	2,6
P/N GALVANISED AND PAINTED	8C276A2300Z	8C376C7250Z	-
P/N GALVANISED	8C276A2300V	8C376C7250V	-
P/N DIE-CAST ALUMINIUM	-	-	8C189F2300G
P/N POWDER COAT	-	-	8C189F2300V

POLE ANCHOR WITH BASE PLAT RISCONTRO PER PALI CON PIASTRE DI BASE



POLE ANCHOR WITH BASE PLAT - STEEL

DESCRIPTION	POLE ANCHOR WITH BASE PLAT
L - WIDTH	250 x 250
D2 - LAG BOLTS	M16 x 500
I - HOLE SPACING	180
S - THICKNESS	3
WEIGHT (KG)	4,3
P/N GALVANISED	8B016POP03Z

Anchor plate complete with four threaded lag bolts / Riscontro completo di 4 tirafondi filettati / Riscontro completo di 4 tirafondi filettati.

All dimensions are in mm.
Hot dip galvanisation as per EN ISO 1461.

KEY / LEGENDA

Luminaire classification / Classi di isolamento



Class I: Electrically insulated in all parts and connected to an earthing point if fixed, or if connected to a flexible power lead with plug, this must include an earth wire.

Classe I: Con isolamento funzionale in ogni parte e terminale o morsetto di terra se fisso, o di cavo elettrico di alimentazione completo di conduttore di terra e di relativa spina con contatto di terra se mobile.



Class II: Double and/or reinforced insulation in all parts, not connected to an earthing point.

Classe II: Con doppio isolamento e/o isolamento rinforzato in ogni parte e senza dispositivi per la messa a terra.



Class III: Connection to safety extra low voltage (SELV) circuits, without any internal or external circuits operating at voltages other SELV.

Classe III: Previsto per il collegamento a circuiti a bassissima tensione, senza alcun circuito interno od esterno funzionante a tensione diversa da quella bassissima di sicurezza.

Key to the icons / Key to the icons



European Norms Electrical Certification



Compliant with ROHS standard / Conforme alla normativa Rohs



Product with heat sink / Prodotto con dissipatore



CE marking / Marcatura CE



Dimmable product / Prodotto dimmerabile



With low infrared and ultraviolet emissions / A bassa emissione di infrarossi e ultravioletti



WEEE compliant / Conforme alla RAEE

Protection / Grado di protezione

Impact resistance: conforms to the standard CEI EN 50102.

Grado di resistenza agli urti: secondo la CEI EN 50102.



Not protected /
Non protetto



Protected against impact energy of 1 J /
Protetto contro un urto di energia 1 J



Protected against impact energy of 0.15 J /
Protetto contro un urto di energia 0,15 J



Protected against impact energy of 2 J /
Protetto contro un urto di energia 2 J



Protected against impact energy of 0.2 J /
Protetto contro un urto di energia 0,2 J



Protected against impact energy of 5 J /
Protetto contro un urto di energia 5 J



Protected against impact energy of 0.35 J /
Protetto contro un urto di energia 0,35 J



Protected against impact energy of 10 J /
Protetto contro un urto di energia 10 J



Protected against impact energy of 0.5 J /
Protetto contro un urto di energia 0,5 J



Protected against impact energy of 20 J /
Protetto contro un urto di energia 20 J



Protected against impact energy of 0.7 J /
Protetto contro un urto di energia 0,7 J

The ratings established by EN 60529 have been approximated by the Italian Electrotechnical Committee CEI70-1[1], and are as follows: IPXX

La codifica, istituita dalla norma EN60529 recepita dalla norma del Comitato Elettrotecnico Italiano CEI70-1[1], è la seguente: IPXX

FIRST NUMERAL: indicates the level of protection against solid particle penetration.

PRIMA CIFRA CARATTERISTICA: indica il grado di protezione alla penetrazione dei corpi solidi.

SECOND NUMERAL: indicates the level of protection against ingress of liquids.

SECONDA CIFRA CARATTERISTICA: indica il grado di protezione alla penetrazione dei liquidi.

First numeral / Primo numero

Second numeral / Secondo numero

IP0X	No protection against contact and ingress of objects / Nessuna protezione al contatto e ingresso di oggetti	IPX0	Not protected / Non protetto
IP1X	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part / Qualsiasi grande superficie del corpo, come il dorso della mano, ma nessuna protezione contro il contatto intenzionale con una parte del corpo	IPX1	Protected against dripping water / Protetto da caduta verticale di gocce d'acqua
IP2X	Protection against solid objects of 12 mm or greater in diameter / Protetto contro corpi solidi di dimensioni superiori a 12 mm	IPX2	Protected against dripping water when tilted up to 15° / Protetto da caduta di gocce d'acqua con inclinazione massima 15°
IP3X	Protection against solid objects of 2.5 mm or greater in diameter / Protetto contro corpi solidi di dimensioni superiori a 2.5 mm	IPX3	Protected against rain / Protetto dalla pioggia
IP4X	Protection against solid objects of 1 mm or greater in diameter / Protetto contro corpi solidi di dimensioni superiori a 1 mm	IPX4	Protected against spraying water / Protetto da spruzzi
IP5X	Dust protected / Protetto contro la polvere	IPX5	Protected against water jets / Protetto da getti d'acqua
IP6X	No ingress of dust / Totalmente protetto contro la polvere	IPX6	Protected against powerful water jets / Protetto da ondate
		IPX7	Protected from temporary immersion / Protetto da immersione temporanea
		IPX8	Protected from continuous immersion / Protetto da immersione continua

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