

BRAIES



Eco-friendly street lighting





Cities aspire to be more liveable for residents and visitors by becoming increasingly more attentive to the quality of public lighting.

To achieve this new form of urban decor in the best possible way, Disano presents different families of luminaires that can meet the needs of both big cities and small towns.





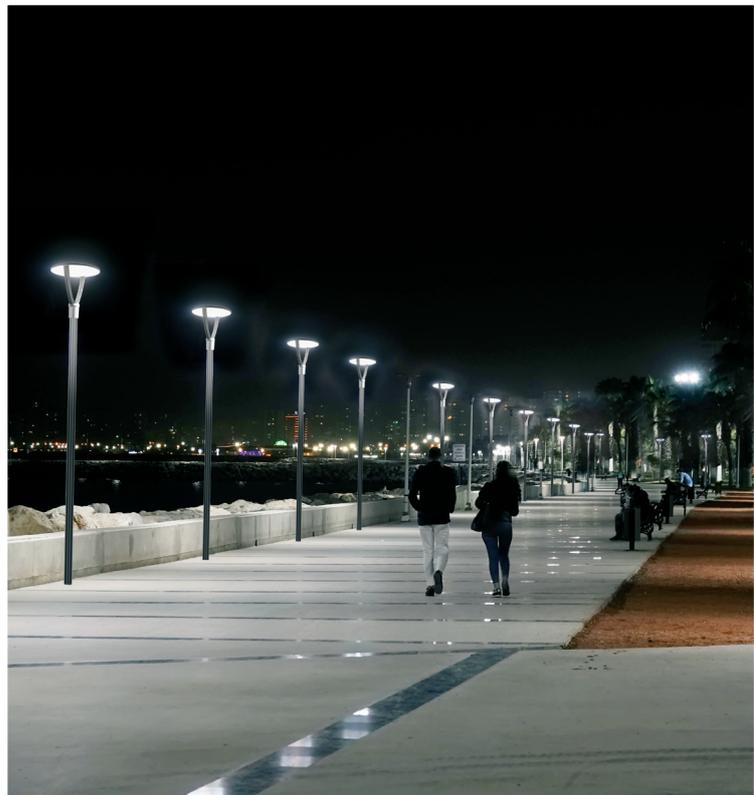
Among these products, **Braies** holds a special place.

Characterised by a high level of versatility, this innovative luminaire is designed for new urban routes, providing pedestrians and cyclists with more light and safety.

The functional design also allows excellent distribution of the light flux and proper heat dissipation, lengthening the system's service life.

Research has shown that different types of lighting can significantly impact nocturnal insects, birds and other creatures that play a vital role in local ecosystems. Environmental organisations are increasingly calling for this aspect to be properly considered in the design of new lighting systems.

Modern LEDs, with a reduced blue light component, provide an opportunity to create less disruptive lighting in streets or parking areas near green spaces, while offering better protection for local wildlife.



Braies is available as **standard** with a **3000K** and **4000K** colour temperature. It is ideal for urban spaces such as public parks, squares, and historic town centres that require an illumination that enhances architectural features while ensuring pedestrian safety, visual comfort, and minimising light pollution.



3000K
4000K **3000K - 4000K:** lamps with white light, is the best choice for lighting up urban areas, streets, residential centres and generally all areas where this type of light guarantees greater safety and visual comfort.

Braies is available as **standard** with a **2200K** and **2700K** colour temperature to reproduce a cosy ambient light associated with sunset. In this way, the artificial light becomes a less invasive element in the environment, **respecting the needs of the surrounding flora and fauna.**



2200K **2200K - 2700K:** warm light reduces the risks of excessive exposure to blue light emitted by LED sources and provides a much softer glow in residential areas and, especially, in historic town centres. The latter are particularly sensitive to excessively cold colour temperatures, which diminish the warm tones of ancient walls, historic buildings, and ruins, so cherished by both locals and tourists. Cold lighting distorts the appearance of the architecture, creating a harsh contrast between bright white and totally dark areas. Instead of enhancing the true character of historic centres, cold lighting makes them look dull and lifeless.



The main feature of this fixture is the new colour-changing technology. With **two built-in switches** positioned on housing of the fixture.

 **CCT SWITCH** = with this integrated switch you can select the desired light colour, 2200K-2700K and 3000K-4000K.

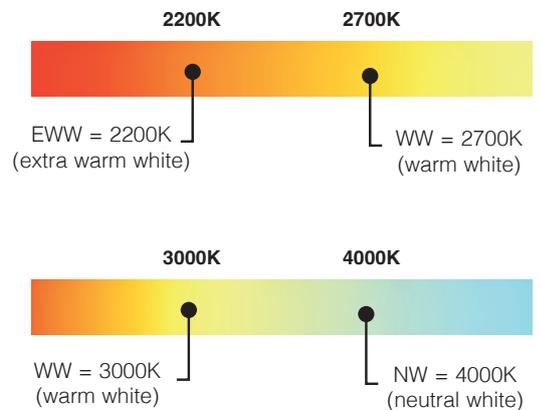
POWER SWITCH = with this integrated switch you can select the fixture's total wattage:

15 - 20 - 25 - 29W or 34 - 42 - 49 - 59W.



IT'S POSSIBLE:

select 4 different colour temperatures, adjusting to most installations:



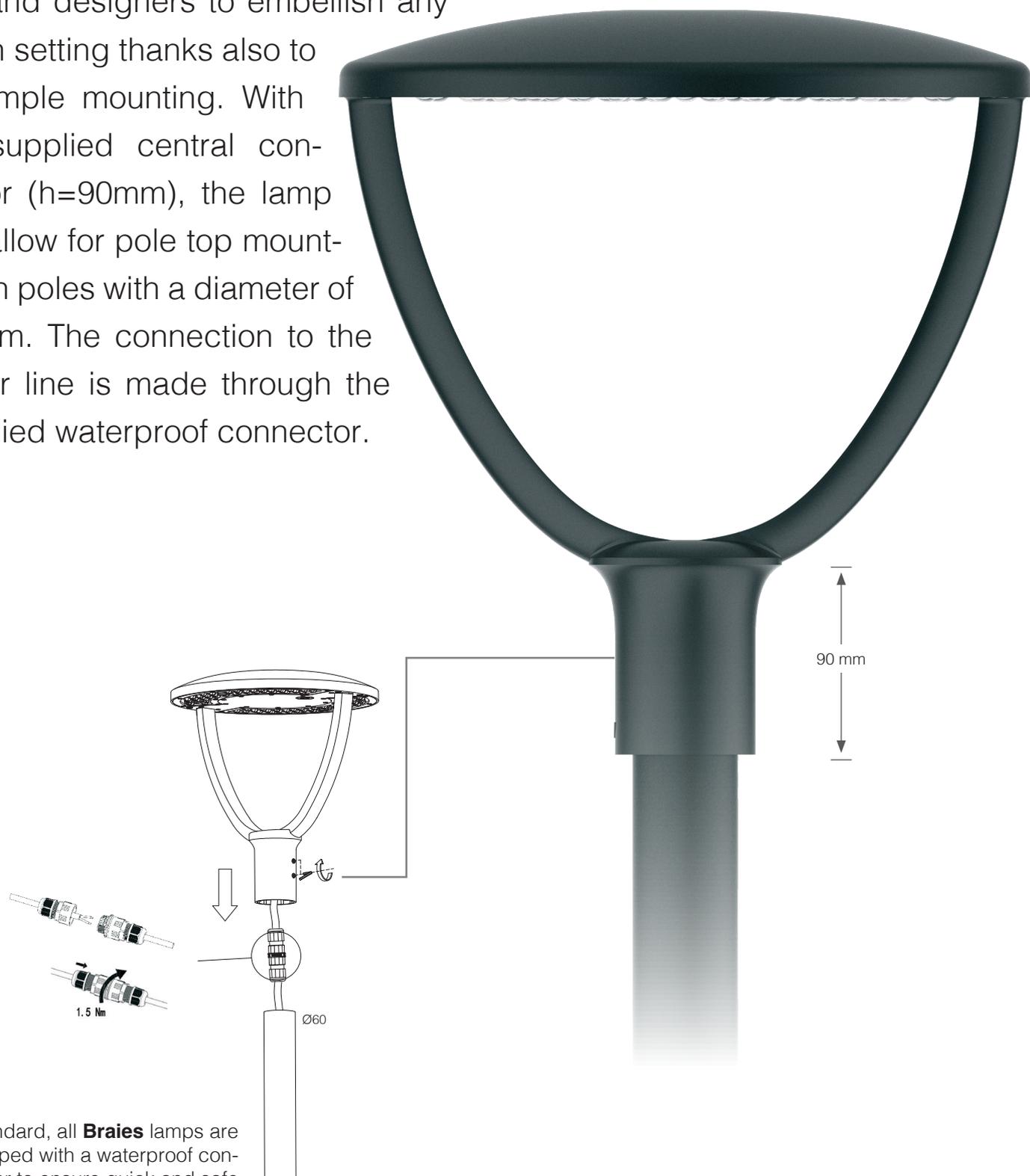
select the type of luminous flux with 4 output power ranges:

LOW	MEDIUM	HIGH
15W	20W - 25W	29W
34W	42W - 49W	59W





Braies is designed to enable installers and designers to embellish any urban setting thanks also to its simple mounting. With the supplied central connector (h=90mm), the lamp can allow for pole top mounting on poles with a diameter of 60 mm. The connection to the power line is made through the supplied waterproof connector.



As standard, all **Braies** lamps are equipped with a waterproof connector to ensure quick and safe connection to the power line.

GENERAL CHARACTERISTICS



Housing/cover: made of die-cast aluminium.

Pole connection: pressed in die-cast aluminium. Suited for poles with a diameter 60 mm.

Diffuser: in transparent, vandal-resistant and V2 self-extinguishing polycarbonate, UV-stabilized.

Optics: made of PMMA with high temperature resistance and UV rays.

Coating: the fully automated powder-coating cycle involves a polyester-based, salt-spray corrosion-resistant and UV-stabilised paint.

Upon request: protective coating recommended for marine environments within 5 km of the sea.

OTHER CHARACTERISTICS



Standard supply: dedicated electronic device to protect the LED module. Supplied with waterproof connector for quick installation and complete with an air-circulation valve; external screws and bolts in stainless steel.

Supplied standard with double switch to choose the colour temperature between 2200K-2700K and 3000K-4000K and the type of lighting for up to 4 lighting levels.

Electronic safety device to protect the LED module and the related ballast compliant with EN 61547.

It works in two modes:

- differential mode: surge between power cables and between the phase and neutral.

- common mode: surge between power, L/N and ground cables or between the fixture's body if it is of class II and installed on a metal pole.

Braies: 6/8 kW.

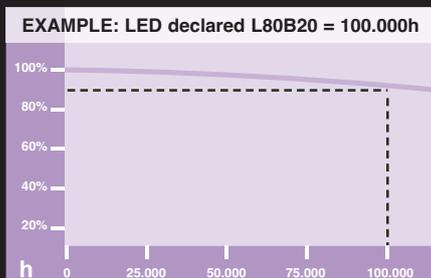
PHOTOBIOLOGICAL SAFETY



We often read about photobiological safety in lighting design. This very important factor is determined by the amount of radiations emitted by all the sources with a wave length ranging between 200 nm and 3000 nm. Excessive radiation exposure can be harmful for human health. The EN62471 standard classifies light sources into risk groups.

Risk Group 0 (RGO Ethr): luminaires are exempt from photobiological risks in compliance with standard EN 62471. If necessary, contact our customer service for the observation distance.

LIFE EXPECTANCY



The decrease of LED flux is defined by the working life and is represented by the L80 mark (see chart), which means that the flux is kept up to 80%. The "B" letter followed by a number ranging between 10 and 50 indicates the quality of the fixture and defines the LED percentage that keeps the declared characteristics when it reaches 100,000 working hours.

Braies: power factor ≥ 0.9 .

Luminous flux maintenance 80%: **100.000h (L80B20)**.

ENEC is a European Mark that demonstrates that Ischia fixture is compliant with applicable European safety standards and was manufactured by a company that applies a Quality System according to ISO 9000.

CERTIFICATIONS



The IK code indicates the fixture's degree of protection against mechanical impact and determines the degree of protection provided by the electrical equipment's enclosures against these impacts (EN 50102 - NF 20-015).

IK LEVEL OF PROTECTION



The design registrations for our products are certified by the International Bureau of the World Intellectual Property Organization (WIPO) in the International Registry of Industrial Designs.

Registered Design
DM/100271

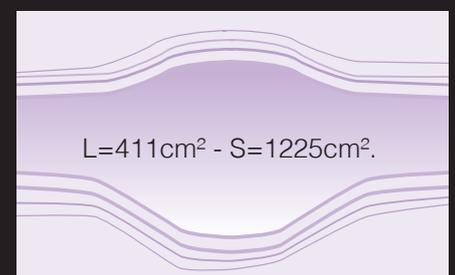
Flicker is a common issue with LED lamps. It can occur at frequencies below 60 Hz and depends on several factors, such as the ripple emitted by drivers. Product with a very low flicker; uniform light for greater eye protection.

LOW FLICKER



The fixture's design is configured to minimise wind exposure surfaces.

SURFACE EXPOSED TO WIND

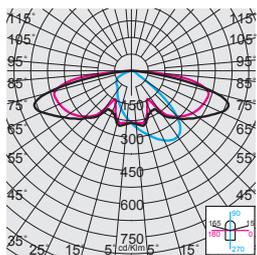


Braies is the ideal product for the lighting of parks and residential areas: in a single body frame, you have a fully equipped luminaire designed to meet any need, including the possibility to select the desired colour temperature in 4 power wattages, maintaining aesthetic continuity and differentiating the amount of light emitted. It is an excellent fixture for the lighting of parks and green areas, ideal for urban settings in which you need to achieve high energy savings and excellent light quality.

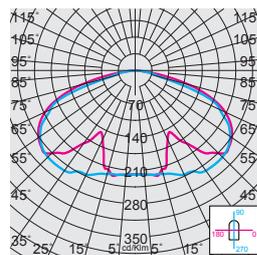
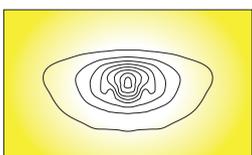


The optical system developed for the **Braies** lamps provides an extremely comfortable and glare-less lighting, allowing the fixture to blend in well with different urban settings (secondary roads, pedestrian crossings, bicycle routes) and residential areas. The **Braies** family of streetlights is available with **rotosymmetric** and **asymmetric** photometric distributions; versions that offer the highest level of performance capable of meeting all outdoor lighting needs. With its high-precision optics, it ensures greater flexibility and top light quality.

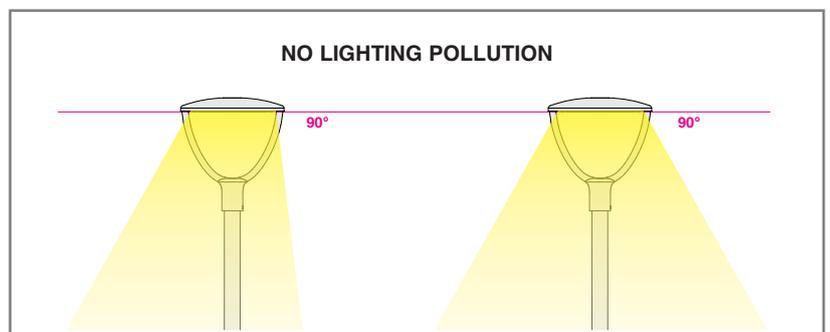
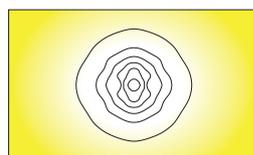
Optics : made of PMMA with high temperature resistance and UV rays.



ASYMMETRIC



ROTSYMMETRIC



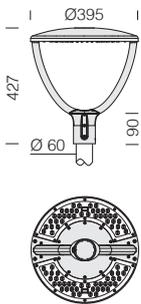


CCT: **2200K - 2700K**

POWER SWITCH:
34 - 42 - 49 - 59 W



IP66IK10 



1590 Braies - CCT 2200K - 2700K / POWER SWITCH - rotosymmetric

LED	colour	weight	code	W tot	LUMEN OUTPUT (tg= 25 °C)	
					K - ølm - CRI	
LED	RAL 7021	4.20	330509-00	34	2200K - 4948lm - CRI>80	2700K - 5108lm - CRI>80
					2200K - 5937lm - CRI>80	2700K - 6128lm - CRI>80
				42	2200K - 7210lm - CRI>80	2700K - 7442lm - CRI>80
					2200K - 8482lm - CRI>80	2700K - 8755lm - CRI>80
				49	2200K - 4948lm - CRI>80	2700K - 5108lm - CRI>80
					2200K - 5937lm - CRI>80	2700K - 6128lm - CRI>80
				59	2200K - 7210lm - CRI>80	2700K - 7442lm - CRI>80
					2200K - 8482lm - CRI>80	2700K - 8755lm - CRI>80



1589 Braies - CCT 2200K - 2700K / POWER SWITCH - asymmetric

LED	colour	weight	code	W tot	LUMEN OUTPUT (tg= 25 °C)	
					K - ølm - CRI	
LED	RAL 7021	4.20	330508-00	34	2200K - 4948lm - CRI>80	2700K - 5108lm - CRI>80
					2200K - 5937lm - CRI>80	2700K - 6128lm - CRI>80
				42	2200K - 7210lm - CRI>80	2700K - 7442lm - CRI>80
					2200K - 8482lm - CRI>80	2700K - 8755lm - CRI>80
				49	2200K - 4948lm - CRI>80	2700K - 5108lm - CRI>80
					2200K - 5937lm - CRI>80	2700K - 6128lm - CRI>80
				59	2200K - 7210lm - CRI>80	2700K - 7442lm - CRI>80
					2200K - 8482lm - CRI>80	2700K - 8755lm - CRI>80



2200K
2700K

Braies is available as standard with a **2200K** and **2700K** colour temperature to reproduce a cosy ambient light associated with sunset. In this way, the artificial light becomes a less invasive element in the environment, **respecting the needs of the surrounding flora and fauna.**



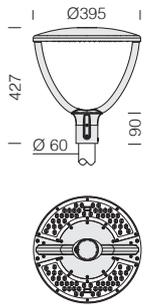


CCT: **3000K** - 4000K

POWER SWITCH:
15 - 20 - 25 - 29 - 34 - 42 - 49 - 59W



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1590 Braies - CCT 3000K - 4000K / POWER SWITCH - rosymmetric

LED	colour	weight	code	CLD		
				W tot	LUMEN OUTPUT (tg= 25 °C)	
LED	RAL 7021	4.20	330500-00	15	4000K - 2400lm - CRI>80	
					3000K - 2280lm - CRI>80	
					20	4000K - 3360lm - CRI>80
						3000K - 3192lm - CRI>80
						4000K - 4000lm - CRI>80
25	3000K - 3800lm - CRI>80					
	4000K - 4800lm - CRI>80					
29	3000K - 4560lm - CRI>80					
	4000K - 5600lm - CRI>80					
LED	RAL 7021	4.20	330500-00002431	34	3000K - 5320lm - CRI>80	
					4000K - 6720lm - CRI>80	
				42	3000K - 6384lm - CRI>80	
					4000K - 8160lm - CRI>80	
				49	3000K - 7752lm - CRI>80	
					4000K - 9600lm - CRI>80	
				59	3000K - 9120lm - CRI>80	



1589 Braies - CCT 3000K - 4000K / POWER SWITCH - asymmetric

LED	colour	weight	code	CLD		
				W tot	LUMEN OUTPUT (tg= 25 °C)	
LED	RAL 7021	4.20	330505-00	15	4000K - 2400lm - CRI>80	
					3000K - 2280lm - CRI>80	
					20	4000K - 3360lm - CRI>80
						3000K - 3192lm - CRI>80
						4000K - 4000lm - CRI>80
25	3000K - 3800lm - CRI>80					
	4000K - 4800lm - CRI>80					
29	3000K - 4560lm - CRI>80					
	4000K - 5600lm - CRI>80					
LED	RAL 7021	4.20	330506-00	34	3000K - 5320lm - CRI>80	
					4000K - 6720lm - CRI>80	
				42	3000K - 6384lm - CRI>80	
					4000K - 8160lm - CRI>80	
				49	3000K - 7752lm - CRI>80	
					4000K - 9600lm - CRI>80	
				59	3000K - 9120lm - CRI>80	



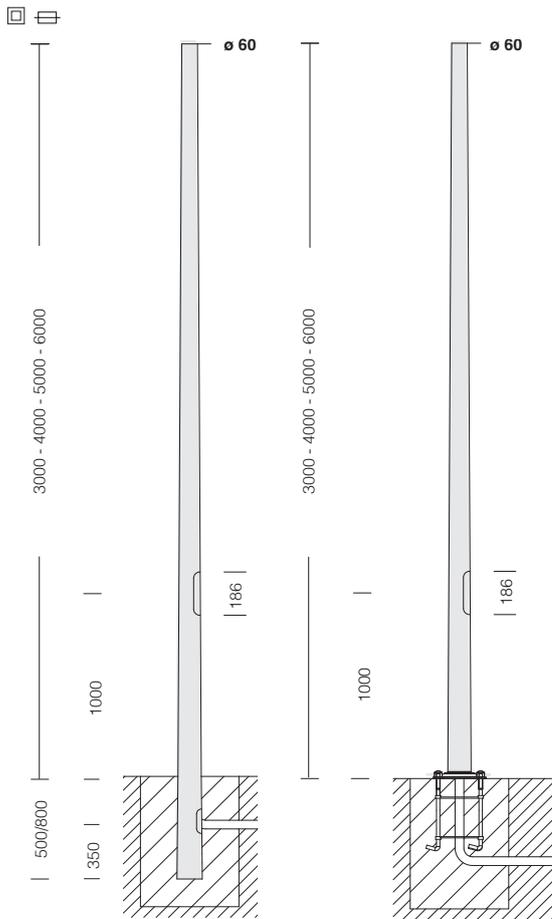
3000K **4000K** **Braies** is available as standard with **3000K** and **4000K** colour temperatures, and with a **2200K** and **2700K** colour temperature to reproduce a cosy ambient light associated with sunset. In this way, the artificial light becomes a less invasive element in the environment, **respecting the needs of the surrounding flora and fauna.**



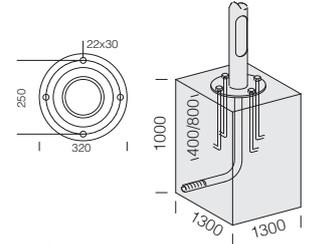


Steel cone-shaped pole

Pole Urban



Concrete base dimensions (subject to soil variations).



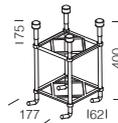
acc. 1481 - steel cone-shaped to be buried

colour	code								
RAL 7021	425160-00	3500	3000	500	1000	186	45	Ø 89	Ø 60
RAL 7021	425161-00	4500	4000	500					
RAL 7021	425162-00	5500	5000	500					
RAL 7021	425163-00	6800	6000	800					

acc. 1480 - steel cone-shaped with base

colour	code								
RAL 7021	425086-00	3000	1000	186	45	Ø 89	Ø 60	Ø 320 hole	Ø 22x30
RAL 7021	425087-00	4000							
RAL 7021	425088-00	5000							
RAL 7021	425089-00	6000							

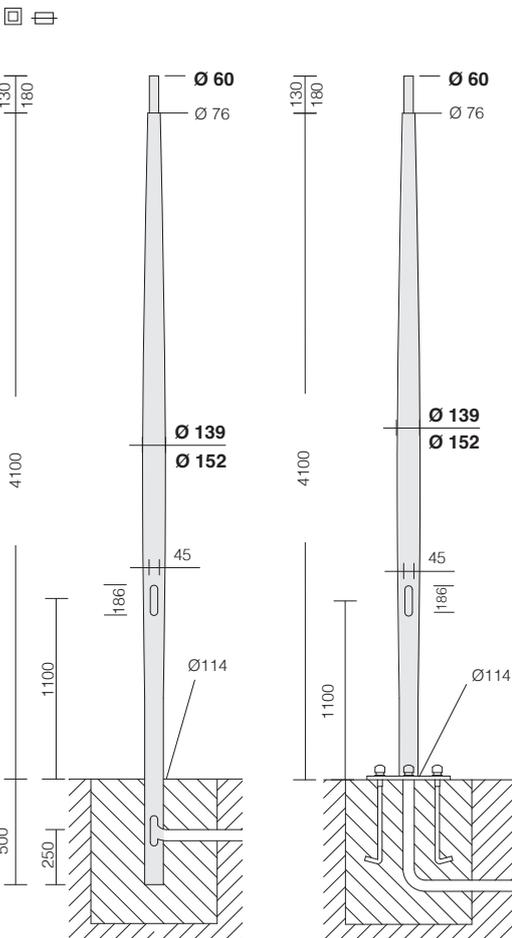
Log bolts are to be bought separately acc. 299.



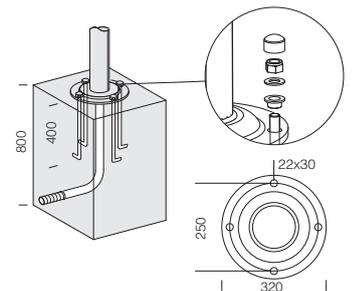
acc. 299 log bolts

991396-00

Log bolts are to be always used with the pole 1480.



Concrete base dimensions (subject to soil variations).



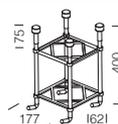
acc. 1478 - pole Urban to be buried

colour	code								
RAL 7021	425372-00	4600	4100	500	1100	186	45	Ø 114	Ø 60

acc. 1477 - pole Urban with base

colour	code								
RAL 7021	425362-00	4100	1100	186	45	Ø 114	Ø 60	Ø 320 hole	Ø 22x30

Log bolts are to be bought separately acc. 299.



acc. 299 log bolts

991396-00

Log bolts are to be always used with the pole 1477.



BRAVIES

disano ●
illuminazione

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