

## DESCRIPTION

### Compliance

- In compliance with
- CEI/EN 60598-1:2008 Lighting source
- CEI/EN 60598-2-3 Street lighting source
- EN 62471 photobiological risk EXEMPT GROUP RG0.
- EN 62031 Led modul.
- 2004/108/CE Electromagnetic compatibilities for lighting luminaire
- UNI 10819 lighting pollution EXEMPT

### Dimensions - Area - Weight

Height Width Length Diameter Area exposed to wind (S)  
Weight 600 mm 400 mm 400 mm 0.09 m<sup>2</sup> 5.3 Kg

### Electrical characteristics

Voltage Frequency P. Rating IP CL II CL I Cos  $\phi$  Operative Temp.  
220- 240V 50-60 Hz 55 CL II > 0.9 -30°C...+40°C

### Connection

- Flange with a hole diam. 28 mm, on bottom frame for fixing to support.
- Suitable for head post or bracket.

### Materials

- Die-cast and extruded aluminum (UNI EN 1706).
- Sheet aluminum.
- Stainless steel fasteners.

### Structure - Main components

- Tilting upper square frame made in die-cast aluminum, for access to the auxiliary and optical compartment.
- Bottom frame made in die-cast aluminum with four-armed bracket with flange and a hole (diam. 28 mm) for attachment to the support.
- Electric cable (diam. max 14 mm) fixed to a upright (not included)
- Support plate LED module in aluminum sheet with high thickness for an optimal heat dissipation.

### Optics

- Refractive lens / PC screen - Geometry road and mixed areas.
- Refractive lens / PC screen - Rotosymmetrical for mixed areas.

### Electrical auxiliaries

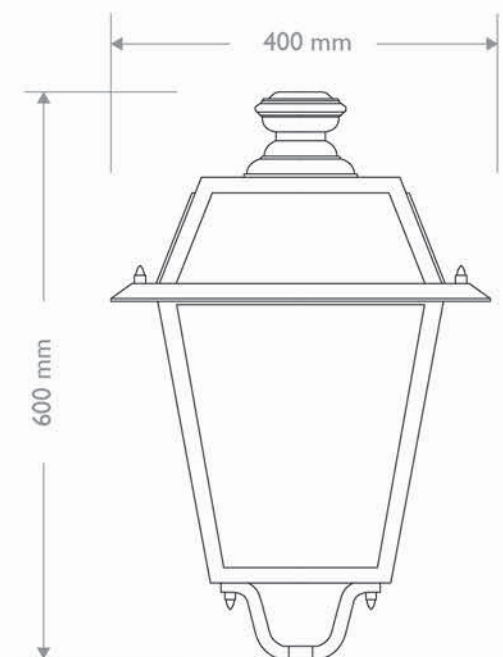
- Electronic power supply for LED module.
- Terminals for wires with a max. section of 2,5 mm<sup>2</sup>

### Operations and maintenance

- To access the optical and wiring compartment, unscrew a screw on upper frame and rotate it.
- Separate electronic driver from LED module, individually replaceable.
- Periodic maintenance for the external cleaning of the structure and the screens from dust and smog (the operations must be performed with the line power off and with luminaire cold).

### Painting

- Standard color is dark gray, type EUROCOMITALIA.
- Information about paint steps used on this product in specific technical sheet.



Scale 1:8



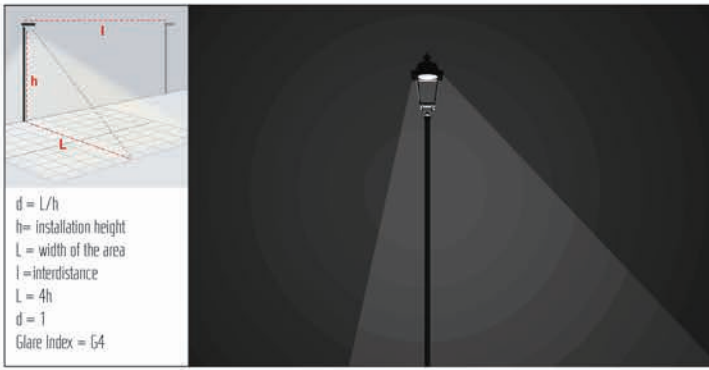
COD.SA	COD.CL	COD.DA	COD.OC	W	LUMEN	K	Hours	Dimesions	Optics
SA01	CL01	DA01	OC01	15	1440		80.000	20 x 9 x 9 cm	AS
SA02	CL02	DA02	OC02	21,4	2057	4000	70.000		
SA03	CL03	DA03	OC03	30	2880		60.000		
SA03P	CL03P	DA03P	OC03P	42,8	4114		50.000		
SA04	CL04	DA04	OC04	15	1368		80.000	20 x 9 x 9 cm	AR
SA05	CL05	DA05	OC05	21,4	1954	4000	70.000		
SA06	CL06	DA06	OC06	30	2736		60.000		
SA06P	CL06P	DA06P	OC06P	42,8	3908		50.000		
SA07	CL07	DA07	OC07	15	1483		80.000	20 x 9 x 9 cm	AE
SA08	CL08	DA08	OC08	21,4	2118	4000	70.000		
SA09	CL09	DA09	OC09	30	2966		60.000		
SA09P	CL09P	DA09P	OC09P	42,8	4237		50.000		
SA10	CL10	DA10	OC10	15	1296		80.000	20 x 9 x 9 cm	AS
SA11	CL11	DA11	OC11	21,4	1851	3000	70.000		
SA12	CL12	DA12	OC12	30	2592		60.000		
SA12P	CL12P	DA12P	OC12P	42,8	3702		50.000		
SA13	CL13	DA13	OC13	15	1231		80.000	20 x 9 x 9 cm	AR
SA14	CL14	DA14	OC14	21,4	1758	3000	70.000		
SA15	CL15	DA15	OC15	30	2462		60.000		
SA15P	CL15P	DA15P	OC15P	42,8	3517		50.000		
SA16	CL16	DA16	OC16	15	1334		80.000	20 x 9 x 9 cm	AE
SA17	CL17	DA17	OC17	21,4	1906	3000	70.000		
SA18	CL18	DA18	OC18	30	2669		60.000		
SA18P	CL18P	DA18P	OC18P	42,8	3812		50.000		

EN 60598-1:2008-10 Luminaires - general requirements and tests ; EN 60598-2-3:2003-10 Particular requirements - Luminaires for road and street lighting; EN 62031:2008-09 LED modules for general lighting-Safety specifications ; EN 62471:2008-09 Photobiological safety of lamps and lamp systems; EN 61347-1:2001-09 Lamp control gear - General and safety requirements; EN 61347-2-13:2007-09 Lamp control gear - Particular requirements for d.c. or a.c. supplied electronic control gear for led modules; EN 62384:2007-08 D.C. or A.C. supplied electronic control gear for LED modules - Performance requirements , 2006/95/CE ; 2004/108/CE.

<b>Mechanics</b>	Aluminum
<b>Screen</b>	LEDiL IP67 printed optics, resistant to UV rays and IK10 impact
<b>Optical group</b>	Asymmetrical, roto-symmetrical, elliptical optics with high-precision collimators for concentrating the light beam
<b>LED type</b>	OSRAM CHIP
<b>Color temperature</b>	Neutral White (4000K - 5000K) / Power LED Warm White (3000 K)
<b>Laser safety class</b>	1M
<b>ON / OFF TIME</b>	ta < 1 s - ts < 1 s (instant on/off)
<b>Power supply</b>	220-240V - 24V a.c. / 50-60 Hz Electronic power supplies integrated into the structure with efficiency > = 88%
<b>Insulation</b>	II
<b>Protection degree</b>	Mechanics and LED compartment IP66 / Power supply compartment IP66
<b>Control type</b>	STAND ALONE, CL0, DALI, POWER LINE COMMUNICATIONS
<b>Life time</b>	50.000 hrs (L85)
<b>Color rendering index (CRI)</b>	>= 80 up to 3000 K
<b>LED junction temperature</b>	Tj 85 °C
<b>Light flow depreciation (LLMF)</b>	0,80 (L80)
<b>Photobiological risk</b>	Free
<b>Diode temperature protection</b>	NTC ( node temperature control) heat overstress protection
<b>Protection from electric overstress (EOS)</b>	EOS FREE up to 9 kV

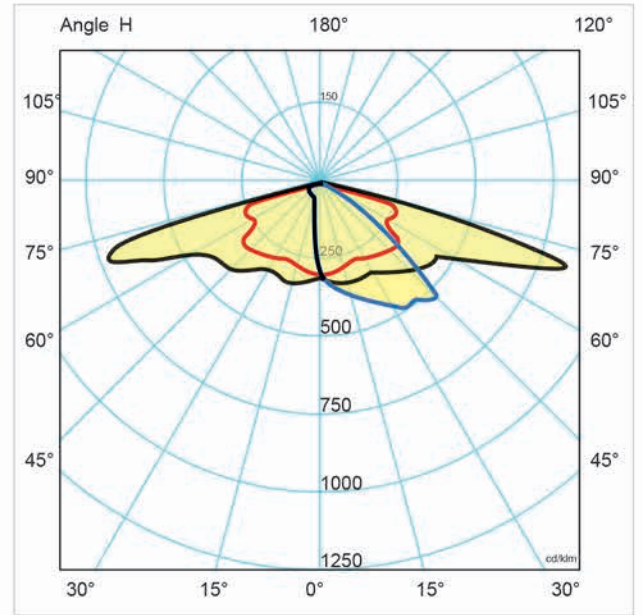






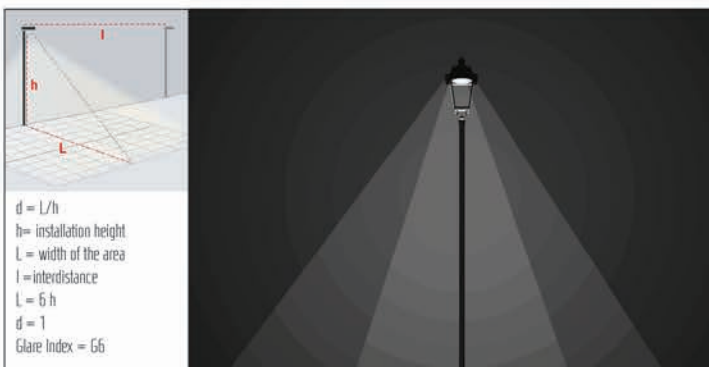
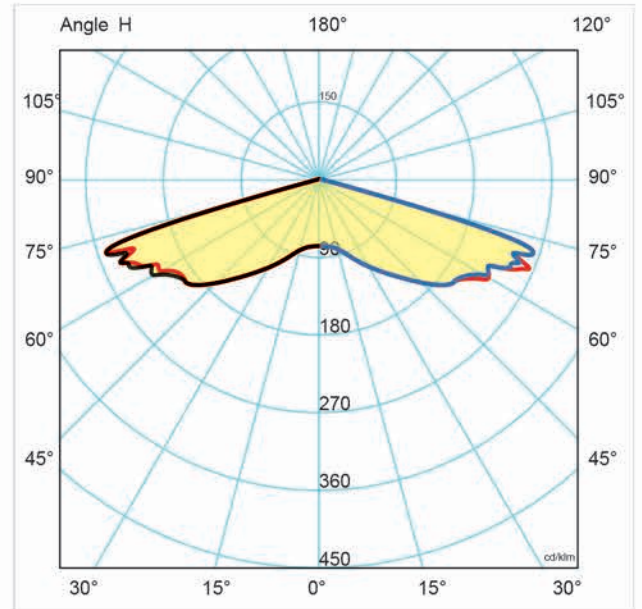
**COD. AS Asymmetrical street optic:**

ideal in areas where street lighting and public spaces lighting are required, with moderate and pedestrian traffic.  
Applicable on any urban furniture pole.



**COD. AR Rotosymmetric street optic:**

ideal in areas where street lighting and parking lighting are required.  
Applicable on any urban furniture pole.



**COD. AE Elliptical street optic:**

ideal in areas where street lighting and pedestrian and cycle paths lighting are required.  
Applicable on any urban furniture pole.

