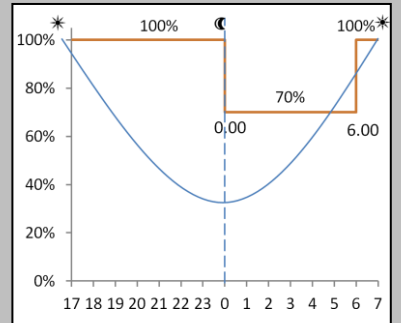
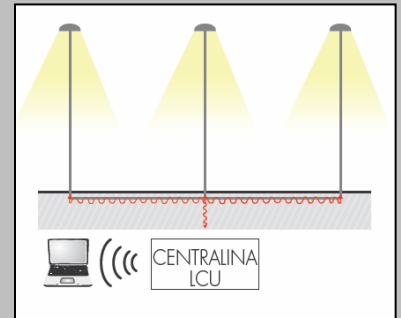


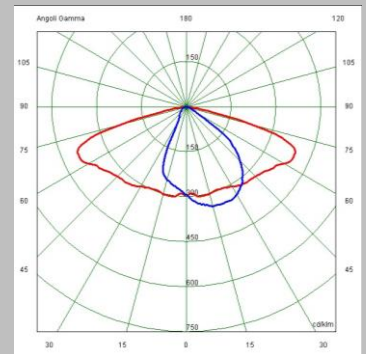
DA Profile



PLM



Eco Arkè LED	
MAIN CHARACTERISTICS	
Applications	Urban and street lighting.
Optic	STU-M/S: Asymmetrical optic for street lighting (urban). STE-M/S: Asymmetrical optic for street lighting (suburban). S05: Asymmetrical optic for urban and street lighting. STW: Asymmetrical optic for wide roads and wet asphalt lighting. OP-DX / SX: Asymmetrical optic for crosswalks lighting. Colour temperature: 4000K (3000K optional) CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 151 lm/W @ 525mA, Tj=85°C Photometrical classification: Cut-off.
Insulation class	II, I
Protection degree	IP66 IK08 Total
Tilt angle	From 0° to 20°
Mounting	on brackets MK/E and Ø42mm
Gear tray	Removable
LED modules	Removable/Replaceable
Dimensions	See the drawing
Weight	11kg
Side surface	Side: 0.11m ² Top: 0.25m ²
Operating temperature	-40°C / +35°C
Storage temperature	-40°C / +80°C
Main reference standards	EN 60598-1, EN 60598-2-3, EN 62471 EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3
ELECTRICAL CHARACTERISTICS	
Rated voltage	220÷240V 50/60Hz
LED current	525mA – 700mA
Power factor	>0,9 (at full load)
On-load switch	Included, with integrated cable clamp.
Mains connection	Connector for cables max section 4mm ²
Surge protection	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.
Control system (optional)	F: Fixed power not dimmable. (Base version) DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. PLM: Power Line single point communication system.
Optical unit lifetime (Tq=25°C, 700mA)	>100.000hr L90B10 >100.000hr L90, TM-21
MATERIALS	
Fixing	Die-cast aluminum UNI EN 1706
Body	Aluminum.
Heatsink	Extruded aluminum
Lower frame	Die-cast aluminum UNI EN 1706 powder painted.
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness high transparency
Gasket	EPDM
Colour	Black (Cod. 02)



STU-M Optic

All the published photometrical data has been obtained according to EN 13032-1





LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX ¹ (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER ¹ (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX ² (Tj=85°C, 4000K, lm)	RATED LED POWER ² (Tj=85°C, W)
Eco Arkè 0F2H1 4.5-1M	525	STU-S STU-M S05	1490	15,5	96	1841	12
Eco Arkè 0F2H1 4.5-2M			3220	31	104	3879	26
Eco Arkè 0F2H1 4.5-3M			4830	44,5	109	5818	39
Eco Arkè 0F2H1 4.5-4M			6380	57	112	7758	52
Eco Arkè 0F2H1 4.7-1M	700	STU-S STU-M S05	2050	22	93	2455	17
Eco Arkè 0F2H1 4.7-2M			4080	40,5	101	4910	35
Eco Arkè 0F2H1 4.7-3M			6090	58	105	7365	52
Eco Arkè 0F2H1 4.7-4M			8050	76	106	9820	70
Eco Arkè 0F3 4.5-1M	525	STE-S STE-M STW	1970	20	99	2475	16
Eco Arkè 0F3 4.5-2M			4480	39,5	113	5214	34
Eco Arkè 0F3 4.5-3M			6650	58	115	7821	52
Eco Arkè 0F3 4.5-4M			8850	75	118	10428	69
Eco Arkè 0F3 4.7-1M	700	STE-S STE-M STW	2740	28	98	3300	23
Eco Arkè 0F3 4.7-2M			5610	52	108	6600	47
Eco Arkè 0F3 4.7-3M			8320	76	109	9900	70
Eco Arkè 0F3 4.7-4M			11040	102	108	13200	93
Eco Arkè 0F6 4.5-1M	525	OP-DX OP-SX	4480	39,5	113	5214	34
Eco Arkè 0F6 4.5-2M			8850	75	118	10428	69

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance. In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the input power supply unit. For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

Note: 1: Rated data obtained in laboratory | 2: Rated data extrapolated from LED manufacturer datasheet.

Tq (°C)	Flux multiplier	Power multiplier
50	0,94	0,99
40	0,96	-
25	1	1
15	1,02	-
5	1,05	-
0	1,05	1,01

Tk (K)	Flux multiplier	Power multiplier
3000	0,93	1,01
4000	1	1
5700	1	1,01
CRI	Flux multiplier	Power multiplier
70	1	1
80	0,8	1,01

The characteristics of the product listed above are subjected to change without notice. They will have to be confirmed in case of order. Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.

LUMINAIRE	LED Current (mA)	OPTICS	INRUSH CURRENT Duration 50%pk (µs)	INRUSH CURRENT Peak (A)	MCB B-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
Eco Arkè 0F2H1 4.5-1M	525	STU-S STU-M S05	360	15	14 / 23 / 35	10 / 10	7 / 10
Eco Arkè 0F2H1 4.5-2M			250	30	10 / 17 / 28	10 / 10	9 / 10
Eco Arkè 0F2H1 4.5-3M			230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F2H1 4.5-4M			230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F2H1 4.7-1M	700	STU-S STU-M S05	360	15	14 / 23 / 35	10 / 10	7 / 10
Eco Arkè 0F2H1 4.7-2M			250	30	10 / 17 / 28	10 / 10	9 / 10
Eco Arkè 0F2H1 4.7-3M			230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F2H1 4.7-4M			210	57	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F3 4.5-1M	525	STE-S STE-M STW	360	15	14 / 23 / 35	10 / 10	7 / 10
Eco Arkè 0F3 4.5-2M			230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F3 4.5-3M			230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F3 4.5-4M			210	57	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F3 4.7-1M	700	STE-S STE-M STW	250	30	10 / 17 / 28	10 / 10	9 / 10
Eco Arkè 0F3 4.7-2M			230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F3 4.7-3M			210	57	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F3 4.7-4M			330	62	4 / 8 / 14	10 / 10	9 / 10
Eco Arkè 0F6 4.5-1M	525	OP-DX OP-SX	230	55	7 / 12 / 20	10 / 10	9 / 10
Eco Arkè 0F6 4.5-2M			210	57	7 / 12 / 20	10 / 10	9 / 10

NOTE 1: The number of luminaires under a three-phase MCB is calculated multiplying by 3 the number in the table. These values are based on data declared by power supply manufacturer and tested on worst case MCB model. An inrush current limiter (i.e. Finder SSR 77.11.x.xxx.8250 (15A) or 77.31.x.xxx.8050 model (30A)) can improve the max.number of luminaire under the MCB

NOTE 2: Power supply manufacturer never did any considerations about 50A or 63A MCB. So we can't declare anything about using of MCB higher than 25A.

