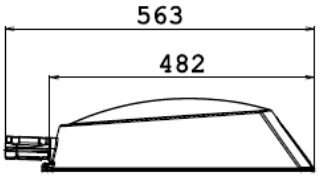
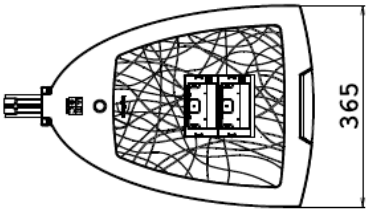
Product Sheet





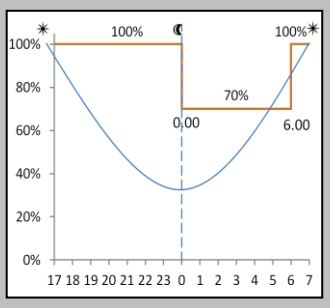
LOGIKA 1 TRIO

MAIN CHARACTERISTICS	
Applications	Street and urban lighting.
Optic	STU-M/S: Asymmetrical optic for street lighting (urban). STE-M/S: Asymmetrical optic for street lighting (suburban). STW: Asymmetrical optic for wide roads and wet asphalts lighting. S05: Asymmetrical optic for urban and street lighting. Colour temperature: 4000K, (optional 3000K, 5700K) | CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 168 lm/W @ 525mA, Tj=85°C – 4000K
Insulation class	II, I
Protection degree	IP66 | IK08 Total
Tilt Angle	0°
Mounting	On bracket MT, AD/L1, TP (Post-top Ø60mm)
Gear tray	Removable plate.
LED Modules	Removable / Replaceable
Dimensions and weight	See the drawing. 7.5 kg
Exposed surface	Side: 0.06m^2 – Top: 0.14m^2
Operating temperature	-40°C / +25°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
CE IK08 IP66 EXEMPT GROUP HIGH PERFORMANCE OPTIC	

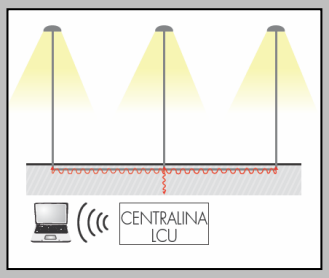
ELECTRICAL CHARACTERISTICS	
Rated voltage	220÷240V 50/60Hz
LED current	525mA , 700mA
Power factor	>0,9 (at full load)
On-load switch	Included, with integrated cable clamp.
Mains connection	For cables max section 4mm^2
Surge protection	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.
Control system (options)	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

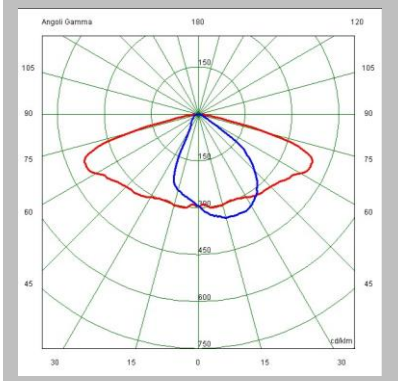
MATERIALS	
Fixing **Lower frame and canopy**	Die-cast aluminum UNI EN1706 powder painted.
Heat-sink	Extruded aluminum.
Closure hook	Extruded aluminium with stainless steel spring.
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness high transparency.
Cable gland	Plastic M20x1.5 - IP68
Gasket	EPDM
Colour	Graphite (Cod.01)

DA Profile



PLM





STU-M Optic

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

Product Sheet

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)
Logika 1 0F2H1 4.50-1M	525	STU-S STU-M S05	1760	15	117	2074	12
Logika 1 0F2H1 4.5-2M			3620	30,5	119	4369	26
Logika 1 0F2H1 4.7-1M	700	STU-S STU-M S05	2370	21,5	110	2765	18
Logika 1 0F2H1 4.7-2M			4630	40	116	5530	36
Logika 1 0F3 4.50-1M	525	STE-S STE-M STW	2460	20,5	120	2801	17
Logika 1 0F3 4.5-2M			5060	39	130	5901	35
Logika 1 0F3 4.7-1M	700	STE-S STE-M STW	3200	28	114	3735	24
Logika 1 0F3 4.7-2M			6400	52	123	7470	47

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.

Multiplier to obtain flux and power in function of Tq		
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

Multiplier to obtain flux and power in function of Tk		
Tk (K)	Flux multiplier	Power multiplier
3000	0,88	1
4000	1	1
5700	1,02	1
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	MCB C-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
Logika 1 0F2H1 4.50-1M	525	STU-S STU-M S05	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	7 / 10
Logika 1 0F2H1 4.5-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
Logika 1 0F2H1 4.7-1M	700	STU-S STU-M S05	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	7 / 10
Logika 1 0F2H1 4.7-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
Logika 1 0F3 4.50-1M	525	STE-S STE-M STW	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	7 / 10
Logika 1 0F3 4.5-2M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Logika 1 0F3 4.7-1M	700	STE-S STE-M STW	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
Logika 1 0F3 4.7-2M			230	55	7 / 12 / 20	12 / 20 / 32	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.