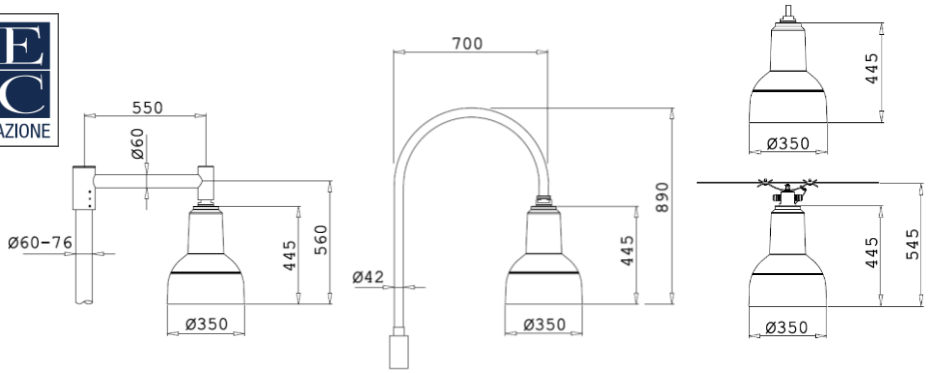
Product Sheet



ARTELYS DECO

MAIN CHARACTERISTICS

Applications	Street and urban lighting.
Optic	STE-M/S: Asymmetrical optic for street lighting (suburban). STU-M/S: Asymmetrical optic for street lighting (urban). STW: Asymmetrical optic for wide roads and wet asphalts lighting. S05: Asymmetrical optic for urban and street lighting. TS: asymmetrical optic for parking and urban areas. SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. S: Roto-symmetrical optic for parking and urban areas. OP-DX / SX: Asymmetrical optic for crosswalks lighting. Colour temperature: 4000K (optional 3000K) | CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 168lm/W @ 525mA, Tj=85°C – 4000K
Insulation class	EU:II (I optional) – US:1
Protection degree	IP66 | IK 08 total
LED Modules	Removable / Replaceable
Dimensions	See the drawing
Weight	max 7kg
Exposed surface	Side: 0.09m^2 – Top: 0.10m^2
Mounting	S: on brackets 1/2“ GAS (typical insallation on bracket MG/TP). TS: on cable Ø5÷Ø12mm.
Gear tray	Removable plate.
Operating temp.	-40°C / +50°C (525mA) -40°C / +35°C (700mA)
Storage temp.	-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

IK08 IP66 EXEMPT GROUP HIGH PERFORMANCE OPTIC

ELECTRICAL CHARACTERISTICS

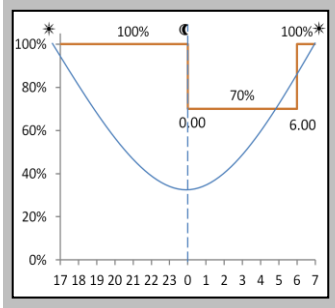
Rated voltage	220÷240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)
LED current	525mA , 700mA
Power factor	>0,95 (at full load F, DA, DAC) | >0,9 (at full load PLM)
On-load switch	Included, with integrated cable clamp.
Mains connection	For cables max section 4mm^2
Surge 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. FLC: Constant light flux. PLM: Power Line single point communication system. WL: Wireless single point communication system. DALI: Digital dimming interface DALI.
Optical unit lifetime (Tq=25°C, 700mA)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

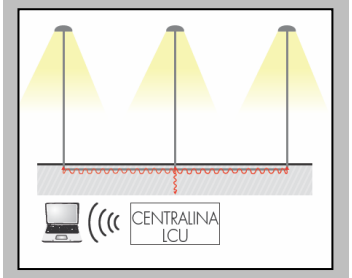
Fixing	Stainless steel
Body	Aluminum powder painted.
Heatsink	Extruded aluminum.
Closure hook	Stainless steel captive screws.
Optic	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Alluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness.
Gasket	Polyurethane
Colour	Graphite (Cod. 01)

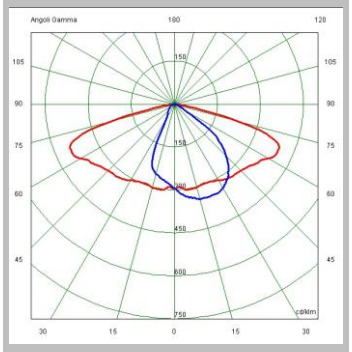
ARTELYS DECO

DA Profile



PLM





STU-M Optic

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

GREENLIGHT

Product Sheet

4000K

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)
ARTELYS DECO 0F2H1 4.5-1M	525	STU-S STU-M S05 TS SV	1840	16	115	2184	13
ARTELYS DECO 0F2H1 4.5-2M			3620	30,5	119	4369	26
ARTELYS DECO 0F2H1 4.7-1M	700	STU-S STU-M S05 TS SV	2370	21,5	110	2765	18
ARTELYS DECO 0F2H1 4.7-2M			4630	40	116	5530	36
ARTELYS DECO 0F3 4.5-1M	525	STE-S STE-M STW	2560	21,5	119	2951	18
ARTELYS DECO 0F3 4.5-2M			5060	39	130	5901	35
ARTELYS DECO 0F3 4.7-1M	700	STE-S STE-M STW	3200	28	114	3735	24
ARTELYS DECO 0F3 4.7-2M			6400	52	123	7470	47
ARTELYS DECO 0F2H1 4.5-2M	525	S	3620	30,5	119	4369	26
ARTELYS DECO 0F2H1 4.7-2M	700	S	4630	40	116	5530	36
ARTELYS DECO 0F6 4.5-1M	525	OP-DX OP-SX	5060	39	130	5901	35

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.

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%.

3000K

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX[1] (Tq=25°C, 3000K, 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, 3000K, lm)	RATED LED POWER[2] (Tj=85°C, W)
ARTELYS DECO 0F2H1 3.5-1M	525	STU-S STU-M S05 TS SV	1620	16	101	1922	13
ARTELYS DECO 0F2H1 3.5-2M			3190	30,5	105	3844	26
ARTELYS DECO 0F2H1 3.7-1M	700	STU-S STU-M S05 TS SV	2090	21,5	97	2433	18
ARTELYS DECO 0F2H1 3.7-2M			4070	40	102	4866	36
ARTELYS DECO 0F3 3.5-1M	525	STE-S STE-M STW	2250	21,5	105	2597	18
ARTELYS DECO 0F3 3.5-2M			4450	39	114	5193	35
ARTELYS DECO 0F3 3.7-1M	700	STE-S STE-M STW	2820	28	101	3287	24
ARTELYS DECO 0F3 3.7-2M			5630	52	108	6574	47
ARTELYS DECO 0F2H1 3.5-2M	525	S	3190	30,5	105	3844	26
ARTELYS DECO 0F2H1 3.7-2M	700	S	4070	40	102	4866	36
ARTELYS DECO 0F6 3.5-1M	525	OP-DX OP-SX	4450	39	114	5193	35

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.

The characteristics of the product listed above are subjected to change without notice.
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Product Sheet

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)
ARTELYS DECO 0F2H1 4.5-1M	525	STU-S STU-M S05 TS SV	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	9 / 10
ARTELYS DECO 0F2H1 4.5-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
ARTELYS DECO 0F2H1 4.7-1M	700	STU-S STU-M S05 TS SV	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	9 / 10
ARTELYS DECO 0F2H1 4.7-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
ARTELYS DECO 0F3 4.5-1M	525	STE-S STE-M STW	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	9 / 10
ARTELYS DECO 0F3 4.5-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
ARTELYS DECO 0F3 4.7-1M	700	STE-S STE-M STW	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
ARTELYS DECO 0F3 4.7-2M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
ARTELYS DECO 0F2H1 4.5-2M	525	S	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
ARTELYS DECO 0F2H1 4.7-2M	700	S	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	9 / 10
ARTELYS DECO 0F6 4.5-1M	525	OP-DX OP-SX	250	30	10 / 17 / 28	17 / 28 / 44	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.