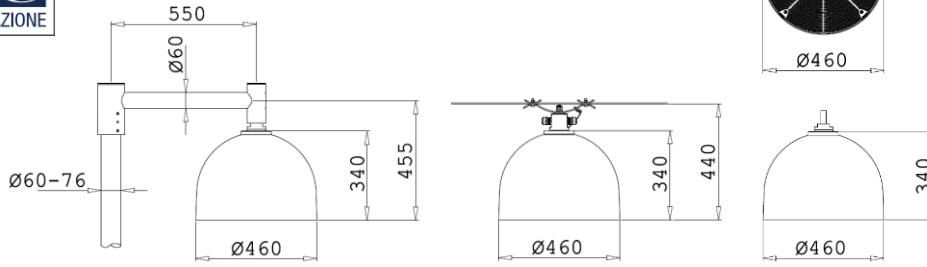




Product Sheet



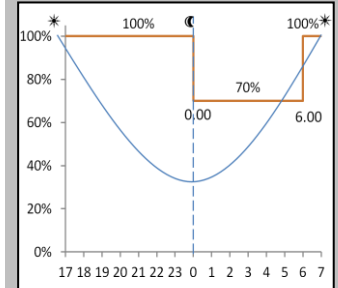
ARTELYS 460

MAIN CHARACTERISTICS

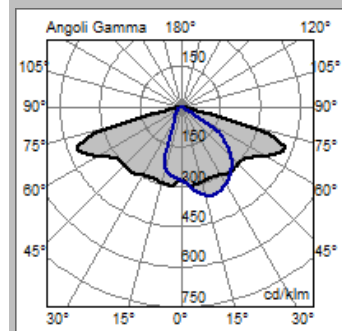
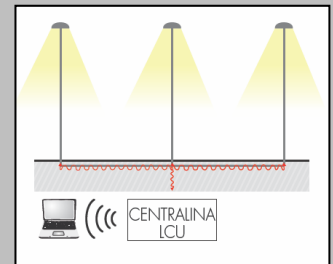
Applications	Street and urban lighting.
Optic	STE-M/S: Asymmetrical optic for street lighting (suburban). STU-M/S: Asymmetrical optic for street lighting (urban). STW: Asymmetrical optic for wide roads and wet asphalts lighting. S05: Asymmetrical optic for urban and street lighting. TS: Asymmetrical 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: 168 lm/W @ 525mA, Tj=85°C – 4000K
Insulation class	EU: II (I optional) – US: 1
Protection degree	IP66 IK08 total
LED Modules	Removable / Replaceable
Dimensions	See the drawing
Weight	max 11kg
Exposed surface	Side: 0.13m ² – Top: 0.17m ²
Mounting	S: on brackets 1/2" GAS (typical installation on bracket MY Ø60-76). TS: on cable Ø5÷12mm.
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
ELECTRICAL CHARACTERISTICS	
Rated voltage	220÷240V 50/60Hz <i>(Standard tolerance +/-10%, other voltages and tolerances upon request)</i>
LED current	525mA, 700mA
Power factor	>0,95 (at full load F, DA, DAC)
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. Pulse withstand: 10kV / 10kV CM/DM
Control system (options)	F: Fixed power not dimmable. 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	Spun aluminium calotte powder painted.
Heatsink	Extruded aluminium.
Closure hook	Stainless steel captive screws.
Optic	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Aluminium grade class A+ (DIN EN 16268)
Screen	Flat tempered glass with silk screen printing, 5mm thickness.
Gasket	Polyurethane.
Colour	Graphite (Cod. 01)



DA Profile



PLM



STU-M Optic

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





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 460 0F2H1 4.5-1M	525	STU-S	1840	16	115	2184	13
ARTELYS 460 0F2H1 4.5-2M		STU-M	3620	30,5	119	4369	26
ARTELYS 460 0F2H1 4.5-3M		S05	5420	44	123	6553	39
ARTELYS 460 0F2H1 4.5-4M		TS SV	7010	57	123	8737	53
ARTELYS 460 0F2H1 4.7-1M	700	STU-S	2370	21,5	110	2765	18
ARTELYS 460 0F2H1 4.7-2M		STU-M	4630	40	116	5530	36
ARTELYS 460 0F2H1 4.7-3M		S05	6890	58	119	8295	53
ARTELYS 460 0F2H1 4.7-4M		TS SV	8810	76	116	11060	71
ARTELYS 460 0F2H1 4.5-2M	525	S	3620	30,5	119	4369	26
ARTELYS 460 0F2H1 4.5-4M			7010	57	123	8737	53
ARTELYS 460 0F2H1 4.7-2M	700	S	4630	40	116	5530	36
ARTELYS 460 0F2H1 4.7-4M			8810	76	116	11060	71
ARTELYS 460 0F3 4.5-1M	525	STE-S STE-M STW	2560	21,5	119	2951	18
ARTELYS 460 0F3 4.5-2M			5060	39	130	5901	35
ARTELYS 460 0F3 4.5-3M			7340	57	129	8852	53
ARTELYS 460 0F3 4.5-4M			9750	76	128	11803	70
ARTELYS 460 0F3 4.7-1M	700	STE-S STE-M STW	3200	28	114	3735	24
ARTELYS 460 0F3 4.7-2M			6400	52	123	7470	47
ARTELYS 460 0F3 4.7-3M			9230	76	121	11205	71
ARTELYS 460 0F3 4.7-4M			12300	102	121	14940	95
ARTELYS 460 0F6 4.5-1M	525	OP-DX OP-SX	5060	39	130	5901	35
ARTELYS 460 0F6 4.5-2M			9750	76	128	14940	95

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 460 0F2H1 3.5-1M	525	STU-S	1710	16	107	2031	13
ARTELYS 460 0F2H1 3.5-2M		STU-M	3370	30,5	110	4063	26
ARTELYS 460 0F2H1 3.5-3M		S05	5040	44	115	6094	39
ARTELYS 460 0F2H1 3.5-4M		TS SV	6520	57	114	8126	53
ARTELYS 460 0F2H1 3.7-1M	700	STU-S	2200	21,5	102	2571	18
ARTELYS 460 0F2H1 3.7-2M		STU-M	4310	40	108	5143	36
ARTELYS 460 0F2H1 3.7-3M		S05	6410	58	111	7714	53
ARTELYS 460 0F2H1 3.7-4M		TS SV	8190	76	108	10286	71
ARTELYS 460 0F2H1 3.5-2M	525	S	3370	30,5	110	4063	26
ARTELYS 460 0F2H1 3.5-4M			6520	57	114	8126	53
ARTELYS 460 0F2H1 3.7-2M	700	S	4310	40	108	5143	36
ARTELYS 460 0F2H1 3.7-4M			8190	76	108	10286	71
ARTELYS 460 0F3 3.5-1M	525	STE-S STE-M STW	2380	21,5	111	2744	18
ARTELYS 460 0F3 3.5-2M			4710	39	121	5488	35
ARTELYS 460 0F3 3.5-3M			6830	57	120	8232	53
ARTELYS 460 0F3 3.5-4M			9070	76	119	10976	70
ARTELYS 460 0F3 3.7-1M	700	STE-S STE-M STW	2980	28	106	3474	24
ARTELYS 460 0F3 3.7-2M			5950	52	114	6947	47
ARTELYS 460 0F3 3.7-3M			8580	76	113	10421	71
ARTELYS 460 0F3 3.7-4M			11440	102	112	13894	95
ARTELYS 460 0F6 3.5-1M	525	OP-DX OP-SX	4710	39	121	5488	35
ARTELYS 460 0F6 3.5-2M			9070	76	119	13894	95

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%.



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 460 0F2H1 4.5-1M	525	STU-S STU-M S05 TS SV	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.5-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.5-3M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.5-4M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.7-1M	700	STU-S STU-M S05 TS SV	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.7-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.7-3M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.7-4M			210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.5-2M	525	S	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.5-4M	700	S	230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.7-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F2H1 4.7-4M	210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10	10 / 10	
ARTELYS 460 0F3 4.5-1M	525	STE-S STE-M STW	360	15	14 / 23 / 35	23 / 39 / 59	10 / 10	10 / 10
ARTELYS 460 0F3 4.5-2M			250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F3 4.5-3M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F3 4.5-4M			210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F3 4.7-1M	700	STE-S STE-M STW	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F3 4.7-2M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F3 4.7-3M			210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 10
ARTELYS 460 0F3 4.7-4M			330	62	4 / 8 / 14	8 / 14 / 21	10 / 10	10 / 10
ARTELYS 460 0F6 4.5-1M	525	OP-DX OP-SX	250	30	10 / 17 / 28	17 / 28 / 44	10 / 10	10 / 10
ARTELYS 460 0F6 4.5-2M			210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	10 / 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.