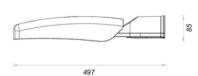
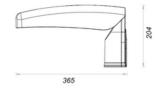




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MAIN CHARACTERISTICS			
Applications	Roadways, Car parks, Parks and Squares, Pathways and Bike Paths, Railway Platforms, etc.		
Material	High-pressure die cast aluminium UNI EN 46100		
Color	Anthracite (optional RAL 7037). Epoxy powder coating after phosphating		
Product sizes	497 (365) x 216 x 85 (204) mm		
Exposed surface	Windage: 0.09 m² - 0.045 m²		
Weight	4.0 Kg		
Mounting	Side entry/ Post-top: Ø 60 mm		
Tilt Angle	Bracket: 5°, 0°, -5°, -10°, -15°, -20° Post-top: 0°, +5°, +10°, +15°, +20°		
Insulation Class	CL II CL I (on request)		
Protection degree	IP 66 IK08		
No. LEDs	4, 8, 12, 18 LEDs		
LED Efficacy ⁽¹⁾	236 lm/W - CRI ≥ 70 - @ 180 mA, T = 25 °C CRI≥80 on request		
Color temperature	3000K - 730/669 4000K - 740/669 5700K - 757/669 Other (K) available upon request		
LED lifetime ⁽²⁾	≥ 100.000hr L90B10 LM 80, TM-21		
Optics	PMMA street optics in high-performance optical grade		
Operating voltages and frequencies	220-240 V~ 50/60 Hz		
Power factor	Cosφ ≥ 0.98 (at full load)		
Surge protection (DM/CM)	6/10 kV SPD (optional) 8kV / 10kV SPD (optional) with higher capacity		
Control system (options)	0-100%, 0-10V signal, PWM, DALI, AstroDIM, MainsDIM, Wireless, NEMA, ZHAGA		
Programming (options)	On-site driver reprogramming through NFC and related app.		
Dimming (options)	Optional module for seasonal, weekly, and daily dimming.		
Operating temperature	-40 / +55 °C		

















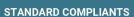


DESCRIPTION

Made of a die-cast aluminum body measuring 497x365xh85mm, with adjustable tilt support for post-top or arm mounting. Equipped with a transparent, tempered glass cover resistant to impacts and thermal shocks, secured with stainless steel screws.

The internal structure houses an LED circuit with roadway optics, providing luminous flux values in Lumens/Watt at varying current intensities (mA). Optical efficiency exceeds 93%, and the light is available in 3000K, 4000K, and 5700K color temperatures, with a CRI of ≥70.

Designed for reduced maintenance, each LED has an average lifetime exceeding 100,000 hours (L90B10). Multiple light output dimming options are available.



EN 60598-1: Luminaires. Part 1: General requirements and tests.

EN 60598-2-3: Particular requirements - Luminaires for road and street lighting.

IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires.

EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

EN 35013: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment. EN 61000-3:2: Electromagnetic compatibility (EMC) Part 3-3: Limits for harmonic current emissions. EN 61000-3:3: Electromagnetic compatibility (EMC) Part 3-3: Limitation of voltage changes, voltage fluctuations, and flicker. EN 61547: Equipment for general lighting purposes - EMC immunity requirements. EN 13032-1: Light and lighting: Measurement and presentation of photometric data of lamps and luminaires - Part 1: Measurement and file format. Technical data sheet according to IEC/PAS 62717 and IEC/PAS 62722



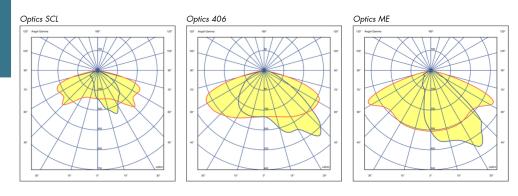




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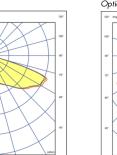


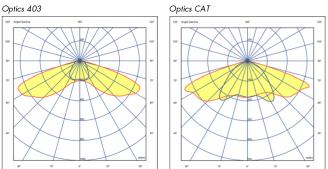
STREET OPTICS



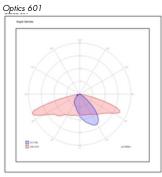
LARGE AREAS OPTICS

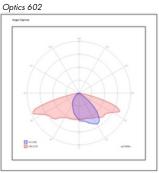
Optics T4-B Optics VSM





NARROW ALLEY OPTICS





Available only for phLuminaELP2XS-18

Available only for phLuminaELP2XS-18



Photometric curves performed in the PHAENOMENA photometric laboratory. NOTE: Other types of photometries are available upon request



3000K | 4000K | 5700K

Model	LED power supply	Nominal Power (W)	Nominal Luminous Flux LED (lm)	Nominal Luminous Flux Fixture (lm)	Efficiency [lm/W]
phLuminaELP2XS-4		10,5	1500	1350	•
phLuminaELP2XS-6*		14,4	2250	2025	
phLuminaELP2XS-8	350	17,5	3090	2781	158,9
phLuminaELP2XS-12		26,5	4670	4203	
phLuminaELP2XS-18*		39,7	7000	6300	
phLuminaELP2XS-4		11,0	1680	1512	
phLuminaELP2XS-6*		15,8	2580	2322	
phLuminaELP2XS-8	400	20,0	3370	3033	151,2
phLuminaELP2XS-12		30,0	5040	4536	
phLuminaELP2XS-18*		45,3	7580	6822	
phLuminaELP2XS-4		11,5	1900	1710	
phLuminaELP2XS-6*		17,5	2850	2565	
phLuminaELP2XS-8	450	23,0	3800	3420	148,7
phLuminaELP2XS-12		34,5	5700	5130	
phLuminaELP2XS-18*		51,6	8540	7686	
phLuminaELP2XS-4		13,0	2100	1890	
phLuminaELP2XS-6*		19,3	3140	2826	
phLuminaELP2XS-8	500	26,0	4200	3780	145,4
phLuminaELP2XS-12		39,0	6300	5670	
phLuminaELP2XS-18*		58,0	9400	8460	
phLuminaELP2XS-4		14,4	2290	2061	
phLuminaELP2XS-6*		21,5	3430	3087	
phLuminaELP2XS-8	550	28,7	4570	4113	143,3
phLuminaELP2XS-12	_	43,0	6850	6165	
phLuminaELP2XS-18*		64,5	10270	9243	
phLuminaELP2XS-4	_	15,8	2640	2376	
phLuminaELP2XS-6*	_	23,6	3850	3465	
phLuminaELP2XS-8	600	31,5	5280	4752	140,2
phLuminaELP2XS-12		47,5	7400	6660	
phLuminaELP2XS-18*		71,0	11530	10377	
phLuminaELP2XS-4		17,3	2640	2376	
phLuminaELP2XS-6*	<u> </u>	25,9	3960	3564	
phLuminaELP2XS-8	650	34,5	5280	4752	137,1
phLuminaELP2XS-12		52,0	7920	7128	
phLuminaELP2XS-18*		77,6	11880	10692	
phLuminaELP2XS-4	_	19,0	2830	2547	
phLuminaELP2XS-6*		28,4	4250	3825	
phLuminaELP2XS-8	700	38,0	5660	5094	134,2
phLuminaELP2XS-12		57,0	8500	7650	
phLuminaELP2XS-18*		84,0	12750	11475	

^{*} Only with optics 601 and 602

NOTE: The values indicated in this data sheet are nominal and should be considered with a tolerance of +/- 10%. For the nominal luminous flux, the minimum value emitted by the LED GW P9IR35.PM(G5) IN M5 - A was considered. (1) Efficiency extrapolated from the LED manufacturer's datasheet. (2) Useful life according to report LM-80_DURIS S 8 - GW P9IR35.PM_4000K_600mA_6000h_180260W1. (3) Values measured in the laboratory with Ta = 25 °C. (4) Values extrapolated from the LED manufacturer's datasheet. In order to support continuous product updates, Phaenomena reserves the right to make changes without prior notice. Except for errors or omissions. Always ensure you are using the most recent version.

The product characteristics listed are subject to change and will be confirmed at the time of order



PACKAGING



Dimensions: 530x240x120 mm

Weight: 5 Kg

DESIGN





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