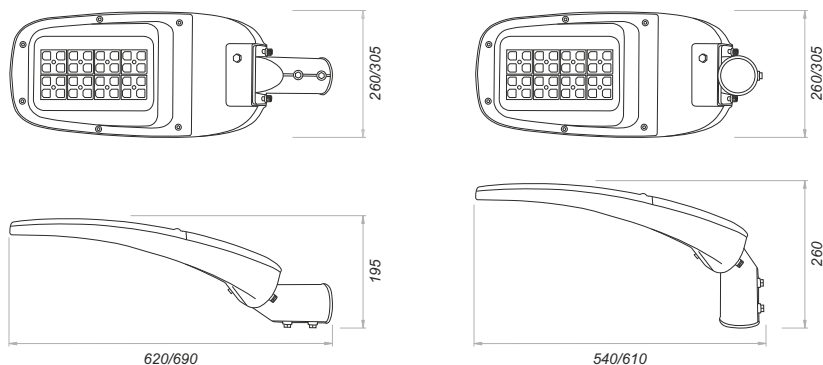




MAIN CHARACTERISTICS

Applications	Street lighting, Car parks, Parks & plazas, Footpaths and cycleways, Railway platforms
Color	RAL 7037
Material	High-pressure diecast aluminium
Dimensions	620 (540) x 260 x 195 (260) mm 690 (610) x 305 x 195 (260) mm - (medium version)
Weight	6.0 Kg 7.0 Kg (medium version)
Protection degree	IP 66 IK08
Exposed surface	front. 0.140 m ² - lat. 0.086 m ² front. 0.183 m ² - lat. 0.096 m ² (medium version)
Insulation class	II
Mounting options	Bracket / Post-top: Ø 60 mm
Tilt Angles	Bracket -10°, -5°, 0°, 5°, 10° Post-top 0°, +5°, +10°, +15°, +20°
IPEA	≥ A++ (C.A.M.)
NO. LED	da 4 a 36 LED
LED source efficiency⁽¹⁾	187 lm/W - CRI 70 - @ 350 mA, T _j = 25 °C
Colour temperature	3000K - 730/669 4000K - 740/669 5700K - 757/669
Optics	2X2 PMMA
Optical unit lifetime⁽²⁾	≥ 100.000hr
Rated voltage	220-240 V~ 50/60 Hz
Power Factor	Cosφ ≥ 0.98 (at full load)
Surge protection (dif/com)	6/8 kV 8/10 kV (upon request)
Control system (options)	0-100%, 0-10V signal, PWM, DALI, AstroDIM, MainsDIM, Wireless
Programming	On-site driver reprogramming through NFC and related app.
Dimming	Optional module for seasonal, weekly, and daily dimming.
Operating temperature	-40 / +55 °C



DESCRIPTION

Street luminaire made in die-cast aluminum body 620x260x195mm or 690x305x195mm (medium version) with inclination adjustment support and pole-top or arm attachment. Transparent, tempered glass, resistant to impacts and thermal shock. Stainless steel screws. The internal part features an LED circuit equipped with 2x2 road optics. Each LED has a nominal luminous flux expressed in Lumen/Watt at various current intensities (mA). Optical efficiency >93%. Light color from 2200K to 5700K. Color rendering (CRI) > 72. Reduced maintenance thanks to the average life of each LED exceeding 100,000 hours L90B10. Multiple possibilities for adjusting the luminous flux. Degree of protection IP66 and IK08. Insulation class II. Operating voltage 170-240VAC 50/60Hz. Driver efficiency ≥90% at full load, power factor cosφ0.95. Total weight 6.0 - 7.0 kg. Operating temperature at steady state Ts max 85°C with Ta 50°C. CE and ENEC certification. Energy performance ≥A++. Luminaire efficiency up to 148lm/W.

Main Reference standards

EN 60598-1: Luminaires - Part 1: General requirements and tests
 EN 60598-2-3: Luminaires - Part 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 61000-3-2: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions.
 EN 61000-3-3: Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
 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
 Datasheet according IEC/PAS 62717 - IEC/PAS 62722

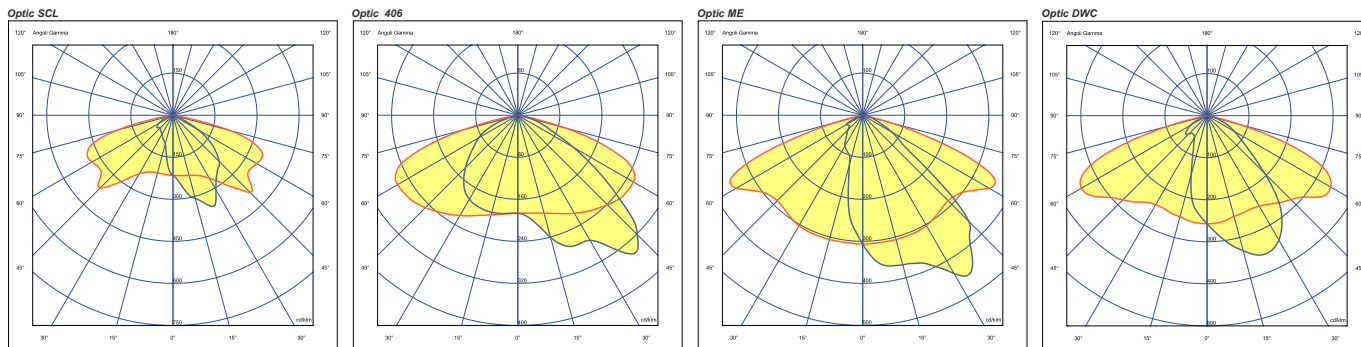
LIFE CYCLE ASSESSMENT



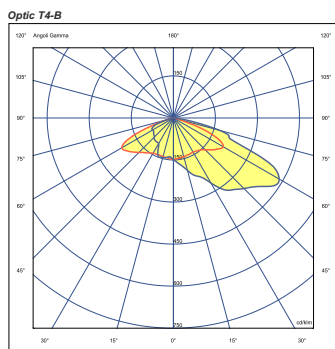
Environmental management, life cycle assessment according to ISO 14040 - 14044



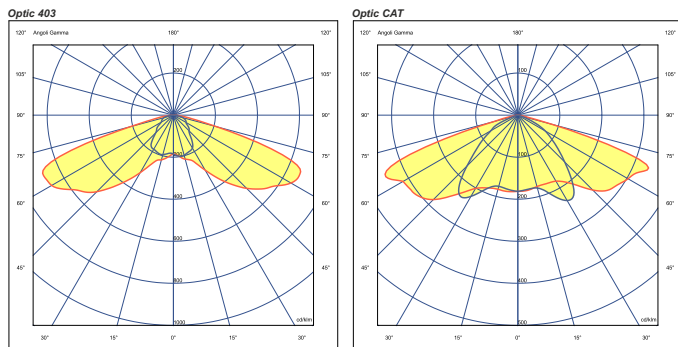
STREET LIGHTING



AREA AND CAR PARK LIGHTING



NARROW ALLEY OPTICS



phLuminaELP 28 / 40 / 700 / DWC

- Product Series
- Number of Leds
- Light temperature
- Current
- Optic

NOTE: Other optics available on request

3000/4000K

Model	Led Current(mA)	Rated Luminaire Power(W)	Rated Led Flux (lm) ⁽¹⁾	Rated Luminaire Flux (lm) ⁽²⁾	Luminaire Efficacy [lm/W]
phLuminaELP4	360	9,1	1582	1345	148,4
phLuminaELP8		18,1	3164	2689	
phLuminaELP12		27,2	4746	4034	
phLuminaELP16		36,2	6328	5379	
phLuminaELP20		45,3	7910	6724	
phLuminaELP24		54,3	9493	8069	
phLuminaELP28		63,4	11075	9414	
phLuminaELP32		73,0	12657	10758	
phLuminaELP36*		83,0	14239	12103	
phLuminaELP4	400	10,1	1742	1481	146,3
phLuminaELP8		20,3	3485	2962	
phLuminaELP12		30,4	5227	4443	
phLuminaELP16		40,5	6969	5924	
phLuminaELP20		50,6	8711	7404	
phLuminaELP24		60,9	10453	8885	
phLuminaELP28		71,0	12195	10366	
phLuminaELP32		83,0	13937	11846	
phLuminaELP4	460	11,8	1982	1685	142,5
phLuminaELP8		23,7	3964	3369	
phLuminaELP12		35,5	5946	5054	
phLuminaELP16		47,3	7929	6740	
phLuminaELP20		59,1	9911	8425	
phLuminaELP24		70,9	11894	10110	
phLuminaELP28		83,0	13876	11795	
phLuminaELP4	500	13,0	2138	1817	140,3
phLuminaELP8		25,9	4276	3635	
phLuminaELP12		38,9	6414	5452	
phLuminaELP16		51,8	8552	7269	
phLuminaELP20		64,8	10690	9087	
phLuminaELP24		77,7	12828	10904	
phLuminaELP4	530	13,8	2252	1914	138,5
phLuminaELP8		27,6	4504	3828	
phLuminaELP12		41,5	6757	5743	
phLuminaELP16		55,3	9009	7658	
phLuminaELP20		69,1	11262	9572	
phLuminaELP24		83,0	13514	11487	
phLuminaELP4	600	15,9	2517	2139	134,8
phLuminaELP8		31,8	5035	4280	
phLuminaELP12		47,6	7553	6420	
phLuminaELP16		63,5	10070	8560	
phLuminaELP20		80,0	12588	10700	
phLuminaELP4	700	19,0	2876	2445	128,6
phLuminaELP8		38,0	5751	4888	
phLuminaELP12		57,0	8627	7333	
phLuminaELP16		76,0	11503	9778	

*Medium version

NOTA: Values indicated in this technical sheet are to be considered rated values. Flux tolerance +/- 10%. Power Tolerance: +/- 10%

Rated led Flux according to LED GW P9LR35.PM(G5) IN M5 - A

⁽¹⁾LED source efficiency according to LED datasheet.⁽²⁾Lifetime according to LM-80_DURIS S 8 - GW P9LR35.PM_4000K_600mA_6000h_180260W1.⁽³⁾Values measured in laboratory @ Ta = 25 °C.⁽⁴⁾Values extrapolated from the LED manufacturer datasheet.

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

PACKAGING



Dimension: 680x305x170 mm
Weight: 7 Kg
Medium version
Dimension: 710x335x165 mm
Weight: 8 Kg

DESIGN

