

MAIN CHARACTERISTICS

Applications	Street lighting, green areas, cycle paths, historical centres
Color	On request
Material	Extruded aluminium
Dimensions	Custom
Weight	< 5.0 Kg
Protection degree	IP 66 IK06
Insulation class	I o II
Mounting	Within existing luminaires
IPEA	≥ A++ (C.A.M.)
N° LED	8, 12, 16, 24, 36 LED
LED Efficacy ¹⁾	187 lm/W - CRI 70 - @ 350 mA, T _j 25 °C
Color temperature	2200K - 722/669 2700K - 727/669 3000K - 730/669 4000K - 740/669 5700K - 757/669
Optics	IP type made of PMMA - PC – SILICONE
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)	6/10 kV
TC adjustment system (on request)	0-100%, 0-10V signal, PWM, DALI, AstroDIM, MainsDIM, Wireless
Programming (on request)	On-site driver reprogramming through NFC and related app
Dimming	Optional module for seasonal, weekly, and daily dimming
Operating temperature	-40 / +55 °C



DESCRIPTION

LED relamping plate consisting of extruded aluminium profile and end caps fixed with AISI 304 bolts. Silicone gaskets. PMMA/PC or silicone optics IP66 and IK06 guaranteed against UV rays and yellowing. Surge protection device up to 6kV. Class II and IP20 internal wiring and connections. Anti-condensation valve. Internal components are replaced using common tools. Access to components by dismantling the lower part. Mains connection via external cable with IP68 M20x1.5 connector (optional). Power supply, plate and remote control (optional) interconnected by means of single-pole, double-insulated rubberised cables. Power supply with rated voltage 220-240 Vac, frequency 50/60 Hz. Efficiency ≥90% at full load, power factor cosφ0.95. DALI interface (optional). LED service life >100,000 hours L90B10. Energy performance ≥A++. Colour from 2200k to 5700k, CRI>70. Aluminium composite closing plate for attachment to existing customisable lamp body. Luminaire efficiency up to 170lm/W.

Main Reference Standards

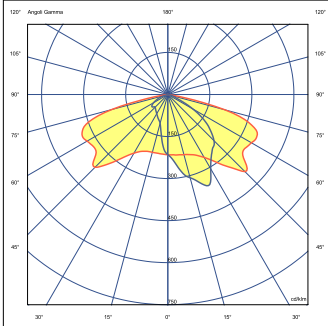
EN 60598-1: Luminaires - Part 1: General requirements and tests.
 EN 60598-2-3 Special Requirements - Luminaires for Street Lighting
 IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires
 EN 55015: Limits and methods of measurement of radio disturbance 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 to IEC/PAS 62717 - IEC/PAS 62722



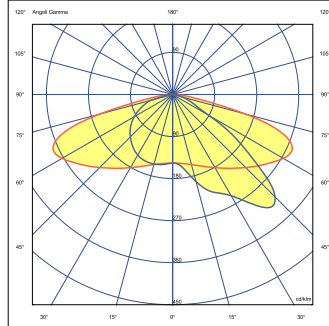
STREET LIGHTING OPTICS

SCL Optic

Only available for multiples of 12 LEDs

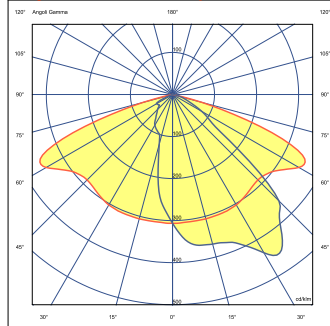


406 Optic



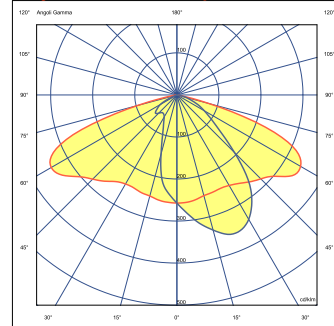
ME Optic

Only available for multiples of 12 LEDs



DWC Optic

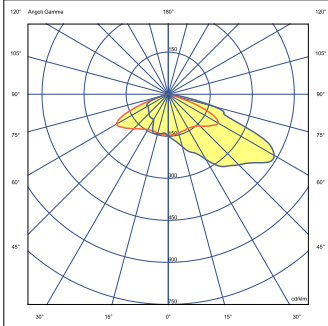
Only available for multiples of 12 LEDs



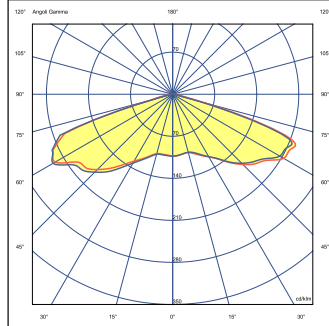
LARGE AREAS OPTICS

T4B Optic

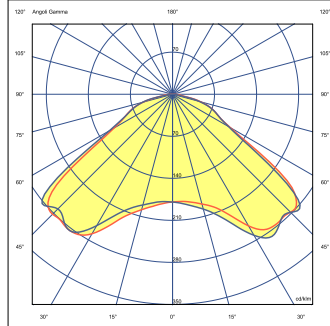
Only available for multiples of 12 LEDs



404 Optic

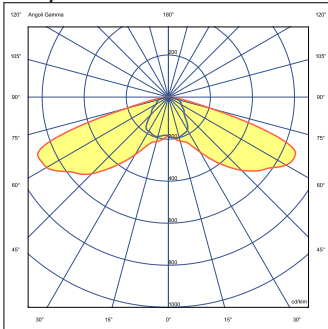


004 Optic



NARROW STREETS OPTICS

403 Optic



phLuminaEIP 12 / 40 / 500 / DWC

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

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

3000/4000/5700K

Model	Led Current(mA)	Rated Luminaire Power(W)	Rated Led Flux (lm) ⁽⁴⁾	Rated Luminaire Flux (lm) ⁽³⁾	Luminaire Efficacy [lm/W]
phLuminaEIP8*	250	12,2	2248	2091	171
phLuminaEIP12		18,3	3373	3137	
phLuminaEIP16*		24,5	4497	4182	
phLuminaEIP24		36,7	6746	6274	
phLuminaEIP36		55,0	10119	9411	
phLuminaEIP8*	300	14,9	2674	2487	167
phLuminaEIP12		22,3	4011	3730	
phLuminaEIP16*		29,7	5347	4973	
phLuminaEIP24		44,6	8022	7460	
phLuminaEIP36		66,9	12032	11190	
phLuminaEIP8*	350	17,6	3084	2868	163
phLuminaEIP12		26,3	4626	4302	
phLuminaEIP16*		35,1	6168	5736	
phLuminaEIP24		52,7	9252	8604	
phLuminaEIP36		79,0	13878	12907	
phLuminaEIP8*	400	20,3	3485	3241	160
phLuminaEIP12		30,4	5227	4861	
phLuminaEIP16*		40,6	6969	6481	
phLuminaEIP24		60,9	10453	9721	
phLuminaEIP36		91,3	15682	14584	
phLuminaEIP8*	450	23,1	3884	3612	156
phLuminaEIP12		34,6	5827	5419	
phLuminaEIP16*		46,2	7769	7225	
phLuminaEIP24		69,3	11654	10838	
phLuminaEIP36		103,9	17481	16257	
phLuminaEIP8*	500	25,9	4276	3977	153
phLuminaEIP12		38,9	6414	5965	
phLuminaEIP16*		51,9	8552	7953	
phLuminaEIP24		77,8	12828	11930	
phLuminaEIP36		116,7	19243	17896	
phLuminaEIP8*	550	28,8	4656	4330	150
phLuminaEIP12		43,2	6984	6495	
phLuminaEIP16*		57,6	9313	8661	
phLuminaEIP24		86,5	13969	12991	
phLuminaEIP36		130,0	21000	19500	
phLuminaEIP8*	600	31,8	5035	4683	147
phLuminaEIP12		47,6	7553	7024	
phLuminaEIP16*		63,5	10070	9365	
phLuminaEIP24		95,3	15106	14049	
phLuminaEIP36		143,0	22659	21000	
phLuminaEIP8*	650	34,7	5394	5016	144
phLuminaEIP12		52,1	8091	7525	
phLuminaEIP16*		69,5	10788	10033	
phLuminaEIP24		104,2	16182	15049	
phLuminaEIP36		156,3	23970	22200	
phLuminaEIP8*	700	37,8	5751	5348	142
phLuminaEIP12		56,7	8627	8023	
phLuminaEIP16*		75,6	11503	10698	
phLuminaEIP24		113,3	17255	16047	

*Only Khatod optics

NOTE: The values indicated in this sheet are nominal, to be considered with a tolerance of +/- 10%.

The minimum value emitted by the LED GW P9LR35.PM(G5) IN M5 - A has been considered for the rated luminous flux.

⁽¹⁾ Efficiency extrapolated from the LED manufacturer datasheet.⁽²⁾ Service life according to LM-80, DURIS S 8 - GWP9LR35.PM_4000K_600mA_6000h_180260W1 Test Report.⁽³⁾ Values measured in the laboratory at Ta = 25 °C.⁽⁴⁾ Values extrapolated from the LED manufacturer datasheet.

In order to promote the constant updating of its products, Phaenomena reserves the right to make changes without prior notice.

Errors or omissions excepted. Always make sure to use the latest version.

The product features listed are subject to change and will be confirmed when ordering.

PACKAGING



Dimensions: Custom
Weight: 6 Kg

DESIGN

