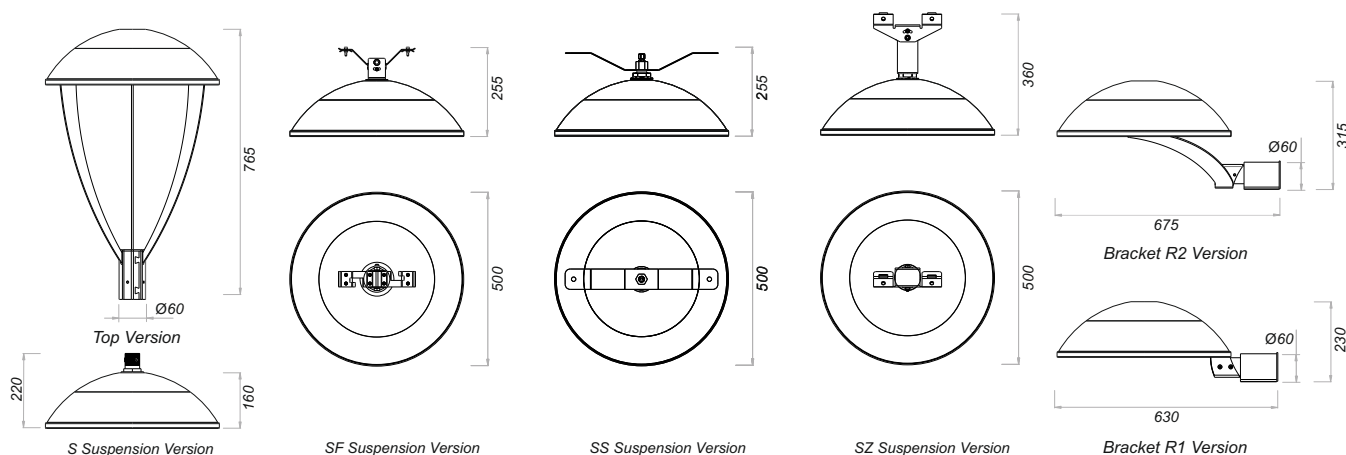


phLUMINA Trilogy *Type-B*

INNOVATION, EFFICIENCY & ENERGY SAVING



Main Characteristics

Applications	Street lighting, green areas, pedestrian cycle paths, historic centers
Color	Antracite
Material	Aluminium / AISI 430 / AISI 304
Dimensioni	Ø500 x 765 mm (Top Version) Ø500 x 220 mm ('S' Suspension Version) Ø500 x 255mm ('SF' Suspension Version) Ø500 x 360mm (Versione 'SZ' a fune) Ø500 x 255 mm ('SZ' Suspension Version) 630 x 500 x 230 mm (Bracket R1 Version) 675 x 500 x 315 mm (Bracket R2 Version)
Weight	from 6.0 Kg to 10 Kg
Protection degree	IP 66 IK06
Insulation class	II
Mounting	Suspension, Top, Bracket
Tilt Angle	Bracket (R1-R2) from -10°, -5°, 0°, 5°, 10°(on request)
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
Colour temperature	3000K - 730/669 4000K - 740/669 5700K - 757/669
Optics	IP type in 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
Control system (options)	0-100%, 0-10V signal, PWM, DALI, Virtual midnight, 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 furniture fixture consisting of corrosion-resistant aluminum cap with head-pole (TOP) attachment in Aisi 430, reach (R1/R2) in Aisi 430/painted aluminum, suspension S) 3/4 gas in galvanized steel (optional Aisi 316), rope (SF) in Aisi 304. Epoxy powder coating. PMMA/PC IP66 and IK06 optics guaranteed against UV and yellowing. Overvoltage (surge) protection device up to 6kV. Body insulation class I or II, IP66 and IK06. Class II internal wiring and connections. Anti-condensation valve. AISI 304 hardware. Internal components are replaced using common tools. Access to components by disassembling the lower part (only by authorized personnel). Support device to the pole with tumbler system, length 90mm and diameter 60mm, fixable by allen wrench. Mains connection via external cable with IP68 M20x1.5 connector (optional). Power supply, plate and possible remote control (optional) interconnected by double-insulated single-pole rubberized cables. Power supply with nominal 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++. Color from 2200k to 5700k, CRI >70. Luminaire efficiency up to 174lm/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



phLUMINA Trilogy *Type-B*

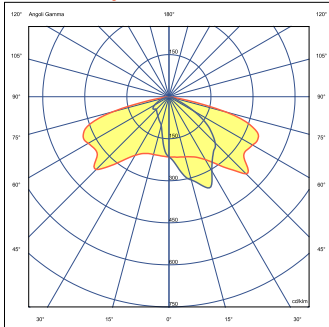
INNOVATION, EFFICIENCY & ENERGY SAVING



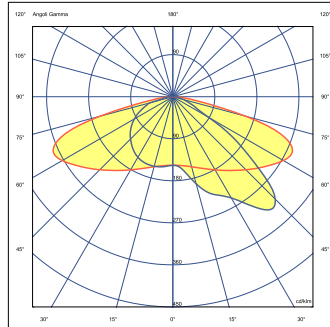
STREET LIGHTING

SCL

Available only for 12 LED modules

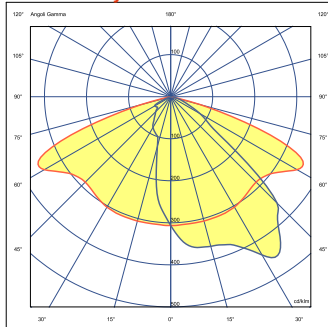


406



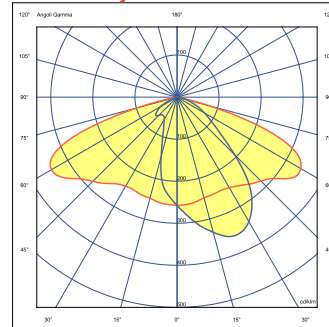
ME

Available only for 12 LED modules



DWC

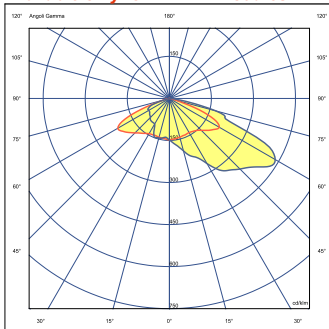
Available only for 12 LED modules



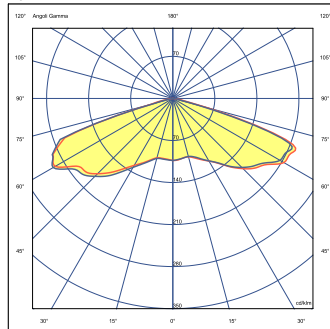
AREA AND CAR PARK LIGHTING

T4B

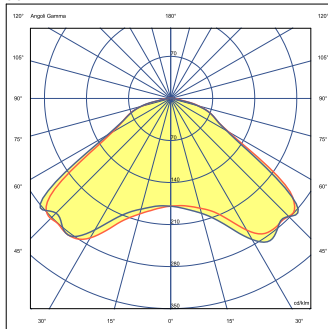
Available only for 12 LED modules



404

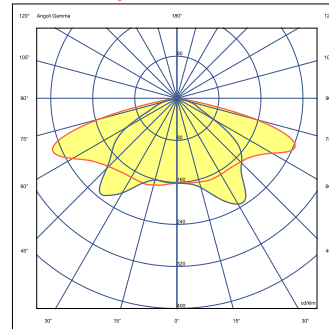


004

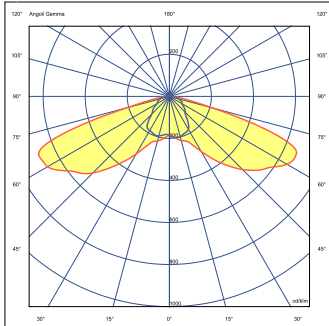


S06

Available only for 16 and 24 LED modules



403



phLuminaTrilogy 12 - (B) S / 40 / 500 / DWC

- Product Series
- Number of Leds
- (B) indicates the Trilogy 'type B'
- Mounting type ('S' suspension, 'T' Top, Bracket 'R1' etc.)
- Light temperature
- Current
- Optic

es. phLuminaTrilogy24-(B)S/40/500/ME

NOTE: Other optics available on request

phLUMINA Trilogy *Tipo-B*

INNOVATION, EFFICIENCY & ENERGY SAVING



3000/4000/5700K

Model	Led Current(mA)	Rated Luminaire Power(W)	Rated Led Flux (lm) ⁽¹⁾	Rated Luminaire Flux (lm) ⁽²⁾	Luminaire Efficacy [lm/W]
phLuminaTrilogy8-(B) *	250	12,0	2248	2091	174,4
phLuminaTrilogy12-(B)		18,0	3373	3137	
phLuminaTrilogy16-(B) *		24,0	4497	4182	
phLuminaTrilogy24-(B)		36,0	6746	6274	
phLuminaTrilogy36-(B)		54,0	10119	9411	
phLuminaTrilogy8-(B) *	300	14,6	2674	2487	170,6
phLuminaTrilogy12-(B)		21,9	4011	3730	
phLuminaTrilogy16-(B) *		29,1	5347	4973	
phLuminaTrilogy24-(B)		43,7	8022	7460	
phLuminaTrilogy36-(B)		65,6	12032	11190	
phLuminaTrilogy8-(B) *	350	17,2	3084	2868	166,7
phLuminaTrilogy12-(B)		25,8	4626	4302	
phLuminaTrilogy16-(B) *		34,4	6168	5736	
phLuminaTrilogy24-(B)		51,6	9252	8604	
phLuminaTrilogy36-(B)		76,0	13878	12671	
phLuminaTrilogy8-(B) *	400	19,9	3485	3241	163,0
phLuminaTrilogy12-(B)		29,8	5227	4861	
phLuminaTrilogy16-(B) *		39,8	6969	6481	
phLuminaTrilogy24-(B) *		59,7	10453	9721	
phLuminaTrilogy36-(B)		92,0	15682	14584	
phLuminaTrilogy8-(B) *	450	23,1	3884	3612	156,6
phLuminaTrilogy12-(B)		34,6	5827	5419	
phLuminaTrilogy16-(B) *		46,1	7769	7225	
phLuminaTrilogy24-(B)		69,2	11654	10838	
phLuminaTrilogy8-(B) *	500	25,9	4276	3977	153,5
phLuminaTrilogy12-(B)		38,9	6414	5965	
phLuminaTrilogy16-(B) *		51,8	8552	7953	
phLuminaTrilogy24-(B)		75,9	12828	11649	
phLuminaTrilogy8-(B) *	550	28,8	4656	4330	150,4
phLuminaTrilogy12-(B)		43,2	6884	6402	
phLuminaTrilogy16-(B) *		57,6	9313	8661	
phLuminaTrilogy24-(B) *		86,4	13969	12991	
phLuminaTrilogy8-(B) *	600	31,7	5035	4683	147,6
phLuminaTrilogy12-(B)		47,6	7553	7024	
phLuminaTrilogy16-(B) *		63,5	10070	9365	
phLuminaTrilogy8-(B) *	650	34,7	5394	5016	144,5
phLuminaTrilogy12-(B)		52,1	8091	7525	
phLuminaTrilogy16-(B) *		69,4	10788	10033	
phLuminaTrilogy8-(B) *	700	37,7	5751	5348	141,7
phLuminaTrilogy12-(B)		56,6	8627	8023	
phLuminaTrilogy16-(B) *		76,0	11503	10769	

*Only Khatod optics

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.

phLUMINA Trilogy *Tipo-B*

INNOVATION, EFFICIENCY & ENERGY SAVING



PACKAGING



Dimension: 505x505x770 mm
 Weight: 10 Kg
 TOP Version
 Dimension: 505x505x225 mm
 Weight: 7 Kg
 S Version
 Dimension: 510x510x225 mm
 Weight: 7 Kg
 SF Version
 Dimension: 550x505x320 mm
 Weight: 11 Kg
 R1 - R2 Version

DESIGN

