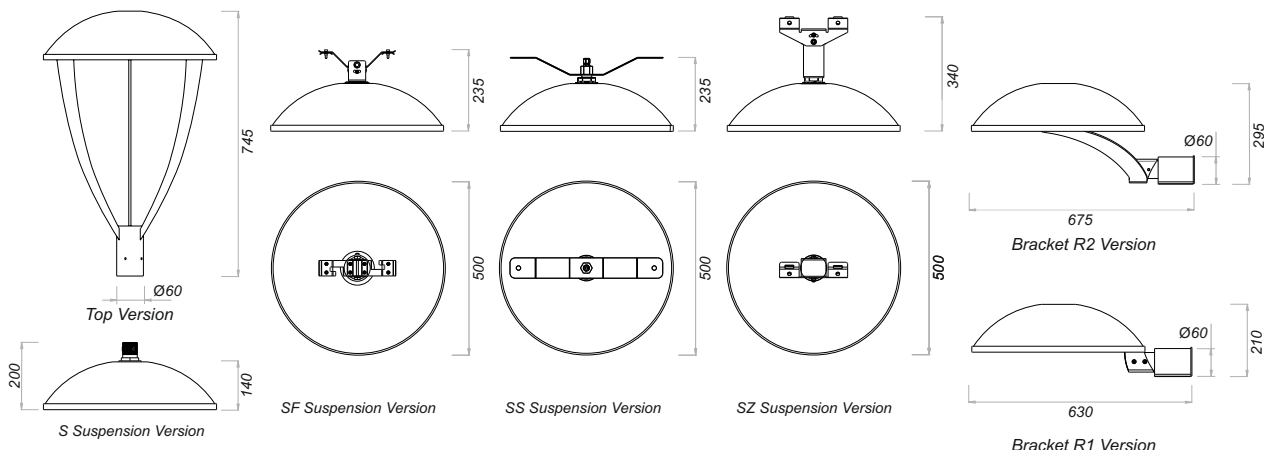


ph LUMINA Trilogy Type-A

INNOVATION, EFFICIENCY & ENERGY SAVING



Main Characteristics

Applications	Street lighting, Urban furniture
Color	Anthracite
Material	Die cast aluminium
Dimensions	Ø500 x 745 mm (Top Version) Ø500 x 200 mm ('S' Suspension Version) Ø500 x 235mm ('SF' Suspension Version) Ø500 x 340mm ('SZ' Suspension Version) Ø500 x 235mm ('SS' Suspension Version) 630 x 500 x 210mm (Bracket R1 Version) 675 x 500 x 295mm (Bracket R2 Version)
Weight	6.0 Kg a 10Kg
Protection degree	IP 66 IK06
Insulation class	II
Mounting	Suspension, Top, Bracket
Tilt Angle	R1 from 20°, -15°, -10°, -5°, 0°, 5°, 10°, 15°, 20°
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 5700 - 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 (diff/com)	8/10 kV
Control system (options)	0-100%, 0-10V signal, PWM, DALI, Virtual midnight, MainsDIM, Wireless, NEMA socket, Zhaga socket
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 160lm/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-A

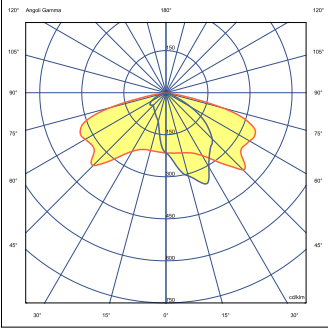
INNOVATION, EFFICIENCY & ENERGY SAVING



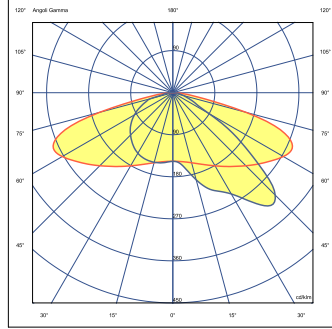
STREET LIGHTING

SCL

Available only for 12 LED modules

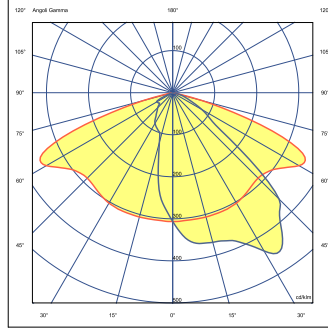


406



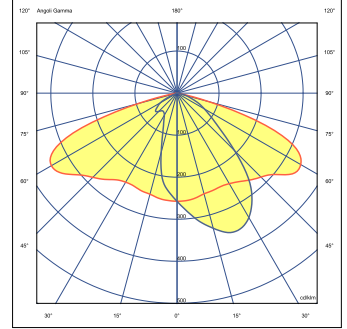
ME

Available only for 12 LED modules



DWC

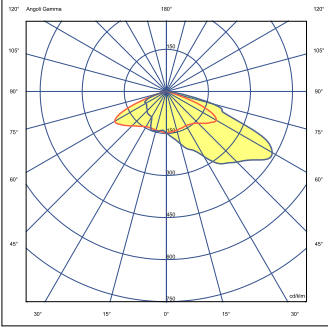
Available only for 12 LED modules



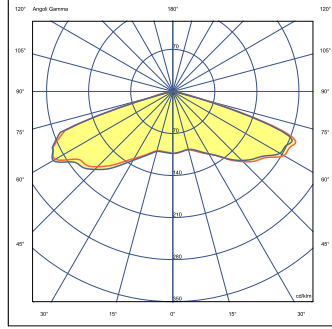
AREA AND CAR PARK LIGHTING

T4B

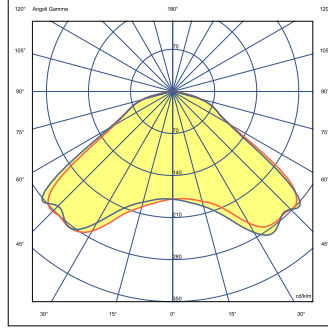
Available only for 12 LED modules



404

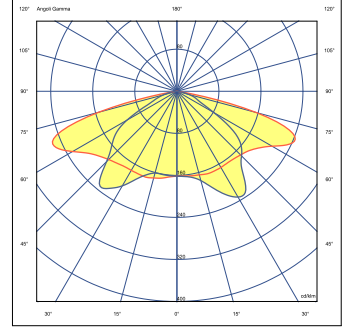


004

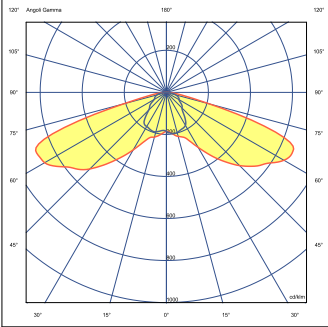


S06

Available only for 16 and 24 LED modules



403



phLuminaTrilogy 24 - (A)T / 40 / 500 / ME

- Product Series
- Number of Leds
- Mounting type('T' Top, 'R1')
- Light temperature
- Current
- Optic

ex. phLuminaTrilogy24 - Top/40/500/ME
NOTE: Other optics available on request

phLUMINA TrilogY Type-A

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-(A) *	250	12,0	2248	2091	174,4		
phLuminaTrilogY12-(A)		18,0	3373	3137			
phLuminaTrilogY16-(A) *		24,0	4497	4182			
phLuminaTrilogY24-(A)		36,0	6746	6274			
phLuminaTrilogY36-(A)		54,0	10119	9411			
phLuminaTrilogY8-(A) *	300	14,6	2674	2487	170,6		
phLuminaTrilogY12-(A)		21,9	4011	3730			
phLuminaTrilogY16-(A) *		29,1	5347	4973			
phLuminaTrilogY24-(A)		43,7	8022	7460			
phLuminaTrilogY36-(A)		65,6	12032	11190			
phLuminaTrilogY8-(A) *	350	17,2	3084	2868	166,7		
phLuminaTrilogY12-(A)		25,8	4626	4302			
phLuminaTrilogY16-(A) *		34,4	6168	5736			
phLuminaTrilogY24-(A)		51,6	9252	8604			
phLuminaTrilogY36-(A)		76,0	13878	12671			
phLuminaTrilogY8-(A) *	400	19,9	3485	3241	163,0		
phLuminaTrilogY12-(A)		29,8	5227	4861			
phLuminaTrilogY16-(A) *		39,8	6969	6481			
phLuminaTrilogY24-(A)		59,7	10453	9721			
phLuminaTrilogY8-(A) *		450	23,1	3884		3612	156,6
phLuminaTrilogY12-(A)	34,6		5827	5419			
phLuminaTrilogY16-(A) *	46,1		7769	7225			
phLuminaTrilogY24-(A)	69,2		11654	10838			
phLuminaTrilogY8-(A) *	500		25,9	4276	3977	153,5	
phLuminaTrilogY12-(A)		38,9	6414	5965			
phLuminaTrilogY16-(A) *		51,8	8552	7953			
phLuminaTrilogY24-(A)		75,9	12828	11649			
phLuminaTrilogY8-(A) *		550	28,8	4656	4330		150,4
phLuminaTrilogY12-(A)	43,2		6984	6495			
phLuminaTrilogY16-(A) *	57,6		9313	8661			
phLuminaTrilogY8-(A) *	600		31,7	5035	4683	147,6	
phLuminaTrilogY12-(A)			47,6	7553	7024		
phLuminaTrilogY16-(A) *		63,5	10070	9365			
phLuminaTrilogY8-(A) *		650	34,7	5394	5016		144,5
phLuminaTrilogY12-(A)			52,1	8091	7525		
phLuminaTrilogY16-(A) *	69,4		10788	10033			
phLuminaTrilogY8-(A) *	700		37,7	5751	5348	141,7	
phLuminaTrilogY12-(A)			56,6	8627	8023		
phLuminaTrilogY16-(A) *		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⁾LED source flux according to GW P9LR35.PM(G5) IN M5 - A.

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

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: 11Kg
R1 - R2 Version

DESIGN

