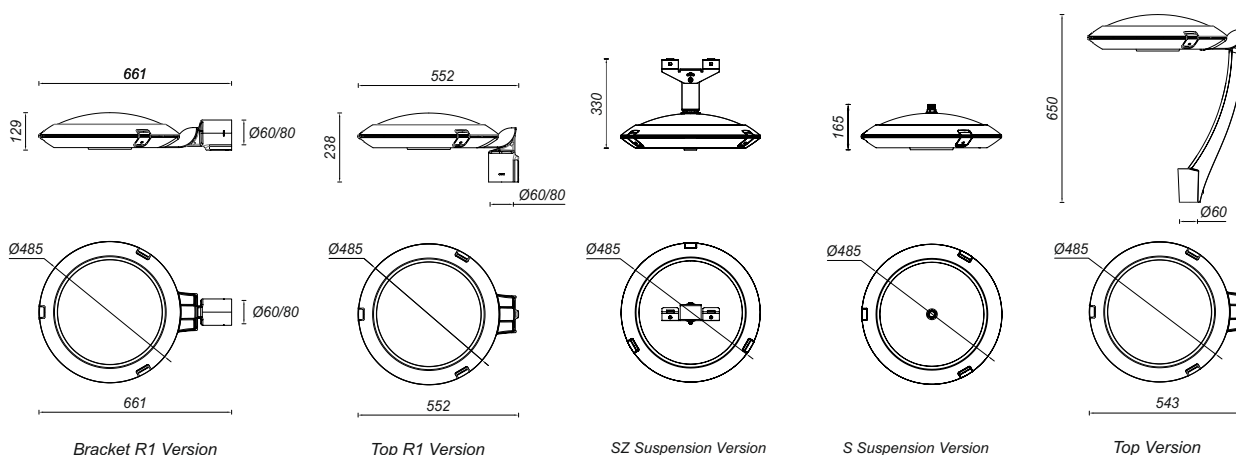




Main Characteristics

Applications	Street lighting, Urban furniture
Color	Anthracite (optional RAL 7037)
Material	Die cast aluminium
Dimensions	Ø485 x 650 mm (Top Version) Ø485 x 165 mm ('S' suspension Version) Ø485 x 330 mm ('SZ' Version) 552 x 485 x 238 mm (Top R1 Version) 661 x 485 x 129 mm (Bracket R1 Version)
Weight	from 6.0 to 9.0 KG
Protection degree	IP 66 IK06
Insulation class	II
Mounting	Bracket or Top R1 (pole Ø60/80) Top (palo Ø60)
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 (dif/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

Urban furniture fixture made of corrosion-resistant aluminum with top pole mounting (Top) or arm mounting (R1). Epoxy powder coating. PMMA/PC optics with IP66 and IK06 rating, guaranteed against UV rays and yellowing. Body insulation class I or II, IP66 and IK06. Class II internal wiring and connections. Anti-condensation valve. AISI 304 bolts. Internal component replacement can be done using common tools. Access to components by removing the top part (only by authorized personnel). Pole support device with cup system, diameter 60/80 mm, fixable with an Allen key. Connection to the power grid via external cable with IP68 M20x1.5 connector (optional). Power supply, plate, and optional remote control interconnected with double-insulated 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 lifespan >100,000 hours L90B10. Color temperature ranging from 2200k to 5700k, CRI>70. Fixture efficiency up to 174 lm/W

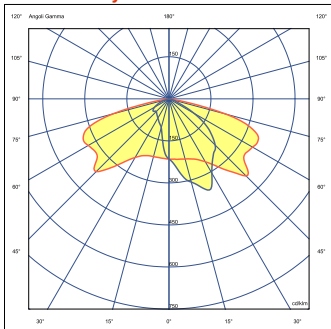
Main Reference standards

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

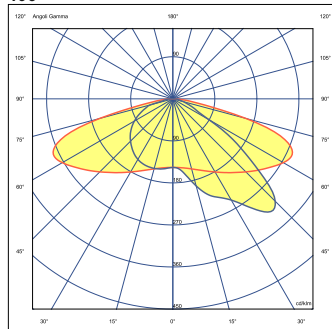
STREET LIGHTING

SCL

Available only for 12 LED modules

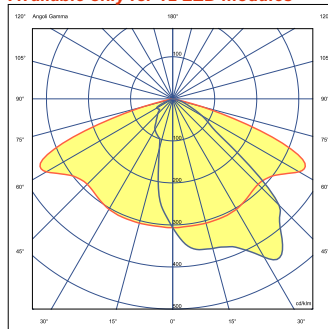


406



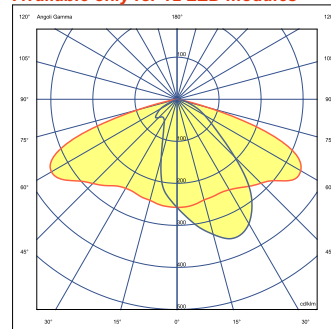
ME

Available only for 12 LED modules



DWC

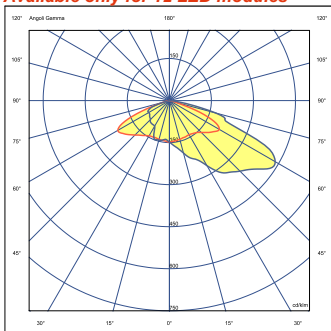
Available only for 12 LED modules



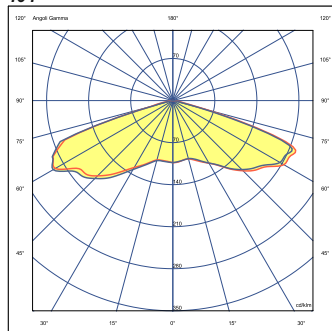
AREA AND CAR PARK LIGHTING

T4B

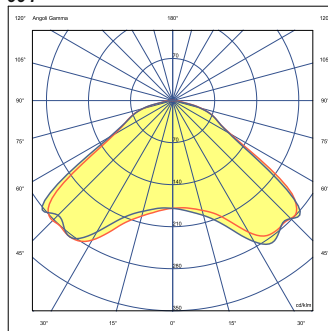
Available only for 12 LED modules



404

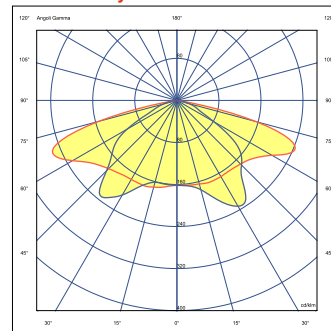


004

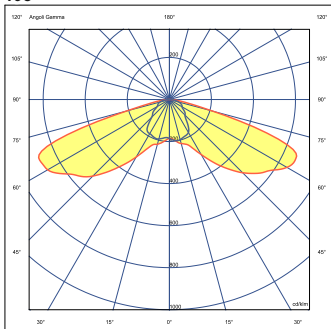


S06

Available only for 16 and 24 LED modules



403



phLuminaMARTE 24 - T / 40 / 500 / ME

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

ex. phLuminaMARTE24 - T/40/500/ME

NOTE: Other optics 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]
phLuminaMARTE8*	250	12,0	2248	2091	174,4
phLuminaMARTE12		18,0	3373	3137	
phLuminaMARTE16*		24,0	4497	4182	
phLuminaMARTE24		36,0	6746	6274	
phLuminaMARTE36		54,0	10119	9411	
phLuminaMARTE8*	300	14,6	2674	2487	170,6
phLuminaMARTE12		21,9	4011	3730	
phLuminaMARTE16*		29,1	5347	4973	
phLuminaMARTE24		43,7	8022	7460	
phLuminaMARTE36		65,6	12032	11190	
phLuminaMARTE8*	350	17,2	3084	2868	166,7
phLuminaMARTE12		25,8	4626	4302	
phLuminaMARTE16*		34,4	6168	5736	
phLuminaMARTE24		51,6	9252	8604	
phLuminaMARTE36		76,0	13878	12671	
phLuminaMARTE8*	400	19,9	3485	3241	163,0
phLuminaMARTE12		29,8	5227	4861	
phLuminaMARTE16*		39,8	6969	6481	
phLuminaMARTE24		59,7	10453	9721	
phLuminaMARTE36		92,0	15682	14584	
phLuminaMARTE8*	450	23,1	3884	3612	156,6
phLuminaMARTE12		34,6	5827	5419	
phLuminaMARTE16*		46,1	7769	7225	
phLuminaMARTE24		69,2	11654	10838	
phLuminaMARTE36		103,8	17481	16211	
phLuminaMARTE8*	500	25,9	4276	3977	153,5
phLuminaMARTE12		38,9	6414	5965	
phLuminaMARTE16*		51,8	8552	7953	
phLuminaMARTE24		75,9	12828	11649	
phLuminaMARTE36		113,8	19242	17826	
phLuminaMARTE8*	550	28,8	4656	4330	150,4
phLuminaMARTE12		43,2	6884	6402	
phLuminaMARTE16*		57,6	9313	8661	
phLuminaMARTE24		86,4	13969	12991	
phLuminaMARTE36		129,6	20954	19487	
phLuminaMARTE8*	600	31,7	5035	4683	147,6
phLuminaMARTE12		47,6	7553	7024	
phLuminaMARTE16*		63,5	10070	9365	
phLuminaMARTE24		95,3	15105	14048	
phLuminaMARTE36		143,0	22658	21072	
phLuminaMARTE8*	650	34,7	5394	5016	144,5
phLuminaMARTE12		52,1	8091	7525	
phLuminaMARTE16*		69,4	10788	10033	
phLuminaMARTE24		104,2	16182	15050	
phLuminaMARTE36		156,3	24273	22575	
phLuminaMARTE8*	700	37,7	5751	5348	141,7
phLuminaMARTE12		56,6	8627	8023	
phLuminaMARTE16*		76,0	11503	10769	
phLuminaMARTE24		114,0	17255	16154	
phLuminaMARTE36		171,0	25883	24231	

*Only Khatod optics

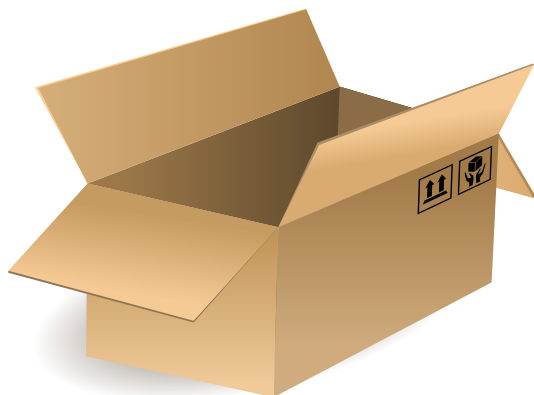
NOTA: Values indicated in this technical sheet are to be considered rated values. Flux tolerance +/- 10%. Power Tolerance: +/- 10%

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



Dimensions: 660x570x140 mm
Weight: 10 Kg
For TOP Version

Dimensions: 570x500x140 mm
Weight: 9 Kg
For R1 Version

DESIGN

