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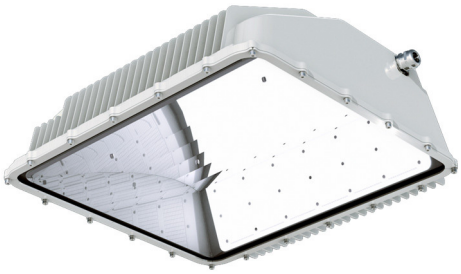
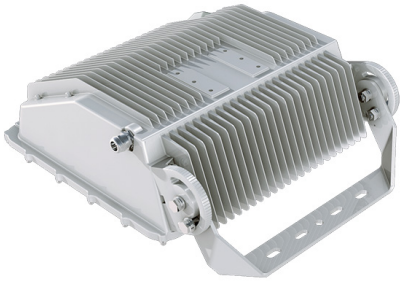
next generation led

info@nextgenerationled.be
www.nextgenerationled.be
Tel + 32 53 71 09 42





MAHA-PLUS with remote driver

Properties

- Lifespan L80B10: > 60.000 hours
- Boosted installation efficiency thanks to the external driver
- Linkage with wired(RS485), wireless (zigbee) control systems and NEMA-7
- Asymmetric wide light distribution
- Tilting structure for optimized aiming (upward:90°, downward: 90°)
- Cast aluminum body and tempered glass 4T (Clear) and powder coating finish
- Advanced reflector technology - low glare output
- Outstanding cooling technology and durability
- Can send uniform light distribution even at long distance
- Warranty 5 years (12 hours usage/day)

Application

Car parks, bulkhead lighting, walkway, sports arena - indoor and outdoor, football stadia, tennis courts, high mast, airports, food and beverage, healthca-re, education, manufacturing, goods handling, pharmaceutical, power plants, ports and terminals, warehousing and cold storage, transport (rail, road and air), MOD and military, surface mining, water and waste treatment ...

IP 66/IK 08 | CRI 80 | Asymmetric | Wireless | 150 lm/W!

Specifications

MAHA PLUS				
Power	200W	250W	400W	500W 600W
Luminous flux(lm)	30000	37500	60000	75000 90000
Powerfactor (Pf)	≥ 0.9			
Input voltage	AC200 ~ 277V / 347 ~ 480V / 50-60Hz			
Color rendering index	80 Ra			
Color temperature	5000K (3000K, 4000K available)			
Temperature in use	- 30°C ~ 53°C			
Weight	7.5kg		15kg or 11.3kg*	11.3kg 20kg

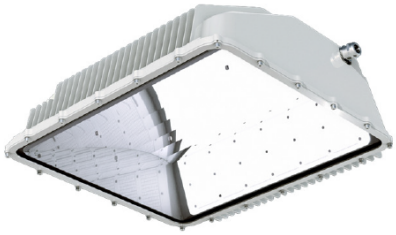
*15kg with internal driver and 11.3kg with external driver for the Maha plus 400W

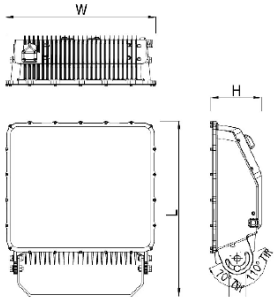
Updated: October 2019

Tennis Court

Specifications

MAHA-PLUS 400W





Size (W x L x H)	23.9 x 13.0 x 4.5 (inch)
	607.2 x 330.6 x 113.8 (mm)

Remote Driver

Model Name	RED	
Power Consumption	1.2kW	
Input Voltage	200 ~ 277 Vac	347 ~ 480 Vac
Input Current	Max. 7.0A (@200 Vac)	Max. 4.4A (@347 Vac)
Surge Protection	Line – Line 20kV, Line – FG 20kV	
Driver Manufacturer	GigaTera Inc. / Made in Korea	
Size (W x L x H)	7.15 x 5.95 x 18.5 (inch)/ 181.7 x 151.2 x 470 (mm)	
Weight	28.7 lb / 13.0 kg	

Mount Bracket Installation Reference (Optional)

MAP400

KMDLMBK010320

Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
			
Upward **165°** / Downward **15°**	Upward **55°** / Downward **125°**	Upward **75°** / Downward **105°**	Upward **145°** / Downward **35°**

KMDLMBK010250

Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
			
Upward **165°** / Downward **15°**	Upward **55°** / Downward **125°**	Upward **75°** / Downward **105°**	Upward **145°** / Downward **35°**

KMDLMBK010400

Ground Mounting (Basic)	Ground Mounting (Reverse)	Horizontal Mounting (Basic)	Horizontal Mounting (Reverse)
			
Upward **145°** / Downward **0°**	Upward **40°** / Downward **110°**	Upward **55°** / Downward **90°**	Upward **130°** / Downward **20°**

KETBKTLC1ZNN001

KMDLMBK010320 + KETBKTLC1ZNN001


KMDLMBK010020

KMDLMBK010020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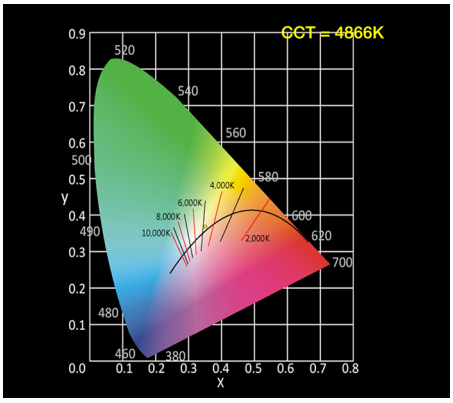
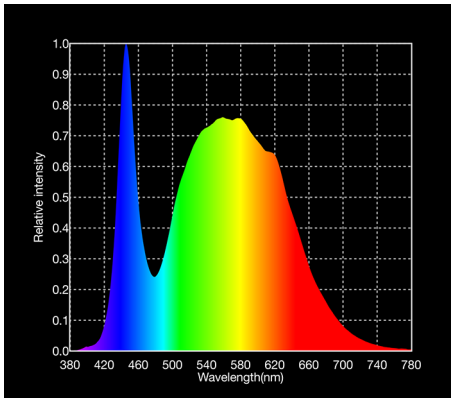
CIE 1931

The CIE color space, developed in 1931, is still used to define colors, and as a reference for other color spaces. The figure is a two-dimensional display of colors of the same intensity (brightness), which is based on observations of color measurements by people.



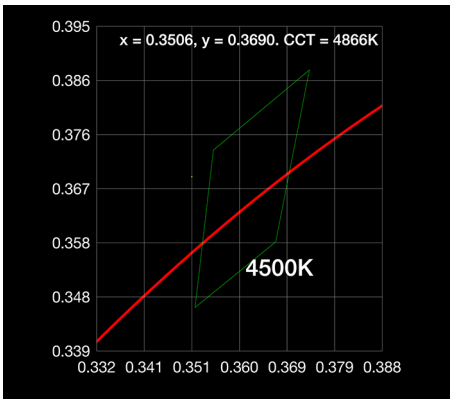


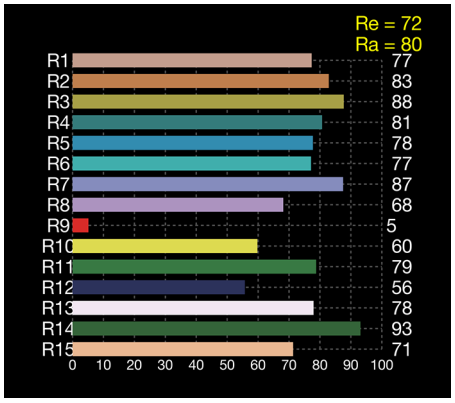
SPECTRUM

Isaac Newton used the Latin word spectrum to define the color series which arose when he dropped a bundle of sunlight through a glass prism. The color spectrum consists of the colors of the rainbow with the color sequence red-orange-yellow-green-blue-indigo-violet, which corresponds to bearish wave length (increasing frequency) of the light waves.

C78 377

ANSI C 78.377 is now the standard for color quality, as determined by the American National Standards Institute. ANSI recommends lamp manufacturers to stay within a 4-step ellipse. This means that manufacturers with a particular focus on the CIE diagram have a broad range of observable differences.

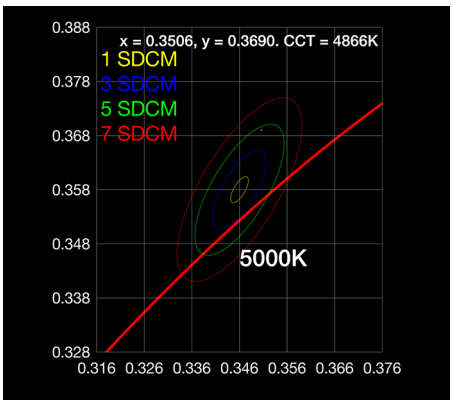




CRI HISTOGRAM

The color reproduction of a light source indicates whether the color of an object can be displayed true to nature. The graph shows whether we can accurately determine color, depending on the color rendering properties of the light source.
Ra = average of R1 to R8
Re = average of R1 to R15
R9 = saturated red. Should be as high as possible.

SDCM



SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level, in other words you certainly can see colour differences in LEDs that are ostensibly the same colour.

SDCM	CCT @ 3000K	ΔUV
1x	±30K	±0.0007
2x	±60K	±0.0010
4x	±100K	±0.0020
7-8x	±175K	±0.0060

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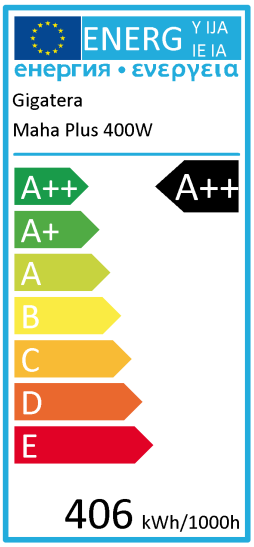
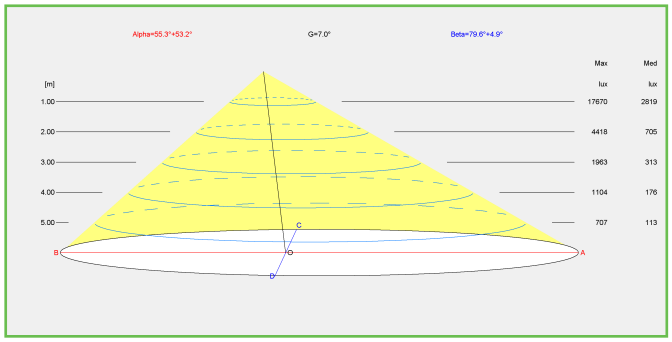
ENERGYLABEL

Electrical appliances carry an energy label. This label prints the so-called energy efficiency score in classes. These classes range from 'very energy efficient' (A++) to 'very waste of energy' (E).
A more expensive new device may eventually turn out to be cheaper if the energy score is good. IPEA is the new system for luminaire energy efficiency assessment.



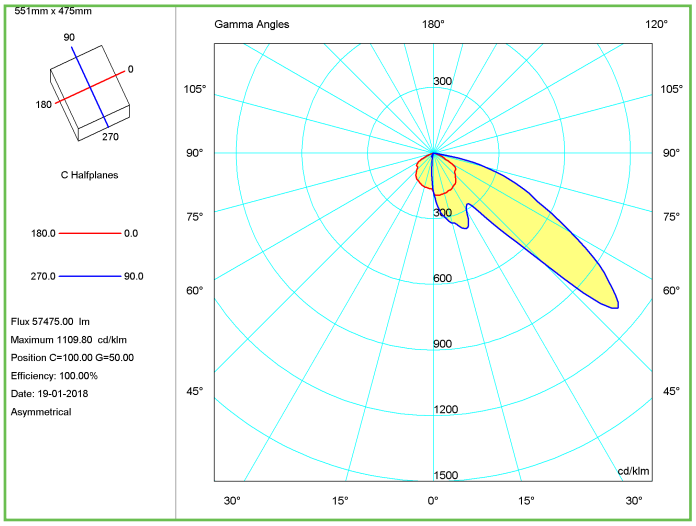
BEAM

The Illuminance Cone Diagram indicates the maximum illuminance at different distances from the fixture.



POLAR DIAGRAM

The polar luminous intensity graph illustrates the distribution of luminous intensity, in candelas, for the transverse (solid line) and axial (dashed line) planes of the luminaire. The shown curve provides a visual guide to the type of distribution expected from the luminaire e.g. wide, narrow, direct, indirect... in addition to intensity.



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MAHA-PLUS

REFERENCE	WATT	LUMEN	COLOR	INTERNAL/EXTERNAL DRIVER
171-0012	400 W	60000 lm	4000 K	EXTERNAL
171-0013	400 W	60000 lm	5000 K	EXTERNAL
171-0014	400 W	60000 lm	5000 K	INTERNAL
171-0015	400 W	60000 lm	4000 K	INTERNAL
171-0016	500 W	60000 lm	4000 K	EXTERNAL
171-0017	500 W	60000 lm	5000 K	EXTERNAL
171-0018	500 W	60000 lm	4000 K	INTERNAL
171-0019	500 W	60000 lm	5000 K	INTERNAL
171-0022	200 W	30000 lm	4000 K	INTERNAL
171-0023	200 W	30000 lm	5000 K	INTERNAL
171-0024	250 W	37500 lm	4000 K	INTERNAL
171-0025	250 W	37500 lm	5000 K	INTERNAL
171-0030	600 W	90000 lm	4000 K	INTERNAL
171-0031	600 W	90000 lm	5000 K	INTERNAL
171-0103	800~1200 W	RED (REMOTE DRIVER)		

Harbour