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next generation led

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MULTIFUNCTIONAL MAHA

Properties

- Lifespan L70 %: > 50.000 hours
- Energy savings up to 65%
- Unrivaled efficacy : 145 Lm per watt
- Wireless lighting control
- Asymmetric lens
- Excellent cooling structure
- Build-in 20Kva surge protector
- Cast aluminum body and tempered glass (4.0T)
- No UV radiation, high light uniformity and no glare
- Swivel bracket installation
- Warranty : 5 years

CRI 80 | 145 Lm/W | IP66 | Asymmetric

Specifications

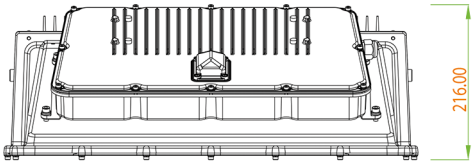
MULTI MAHA	150	200	300	400
Power	150 W	200 W	300 W	400 W
Luminous intensity	19600 Lm	26000 Lm	43500 Lm	58000 Lm
Light distribution	Asymmetric wide			
Color rendering index	Ra>80			
Color temperature	5000 K (3000 K, 4000 K)			
Temperature in use	- 30°C ~ 55°C			
Measurements	347/437/198	357/552/161	475/552/161	577/544/272
Weight	7.5 kg	10 kg	15 kg	20 kg

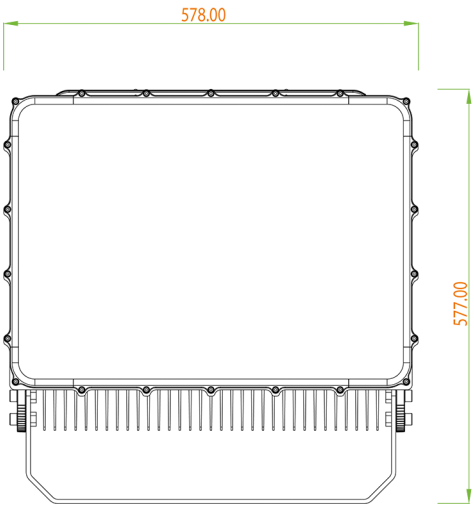
Application

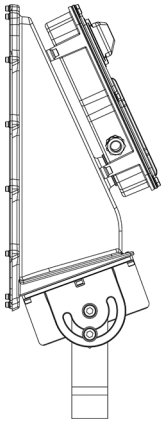
Street, parking, sea & airport, sport stadium, mast, productionhall, ware-house, ...

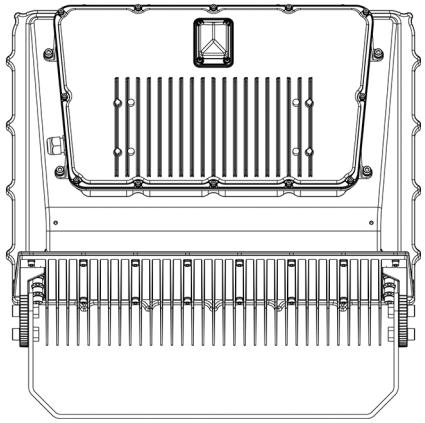
Updated: August 2017

Specifications 400W model









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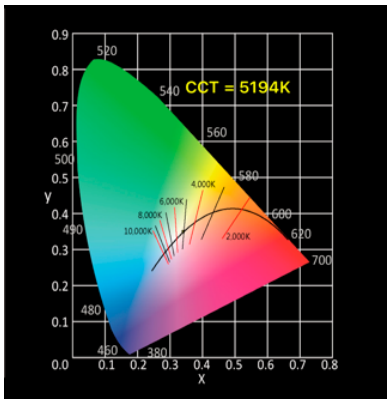
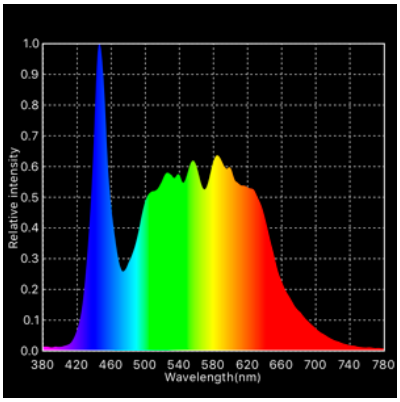
CIE 1931



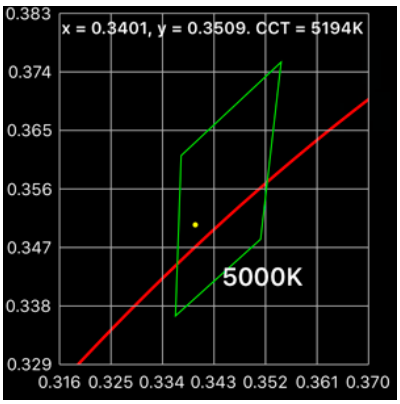
The CIE color space, developed in 1931, is still used to define colors, and as a reference for other color spaces. The figure is a two-dimensional display of colors of the same intensity (brightness), which is based on observations of color measurements by people.



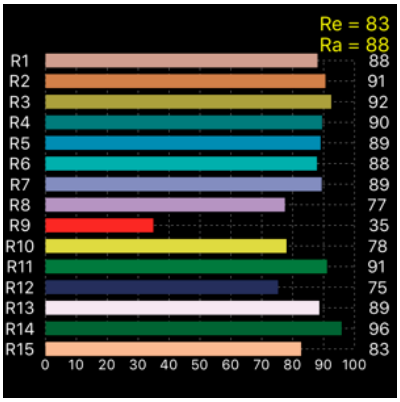
SPECTRUM

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



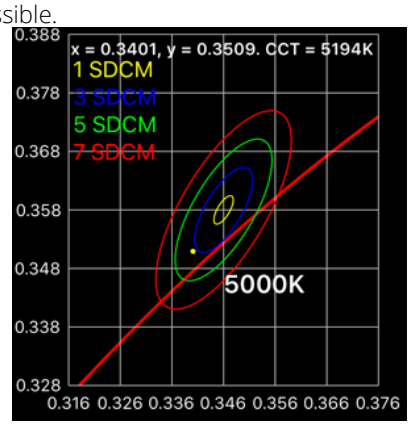
ANSI C 78.377 is now the standard for color quality, as determined by the American National Standards Institute. ANSI recommends lamp manufacturers to stay within a 4-step ellipse. This means that manufacturers with a particular focus on the CIE diagram have a broad range of observable differences.



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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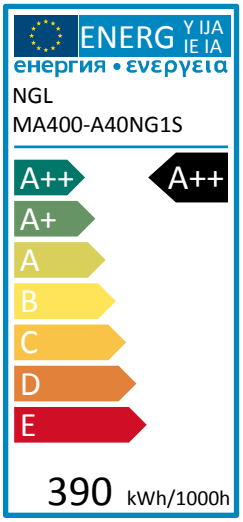
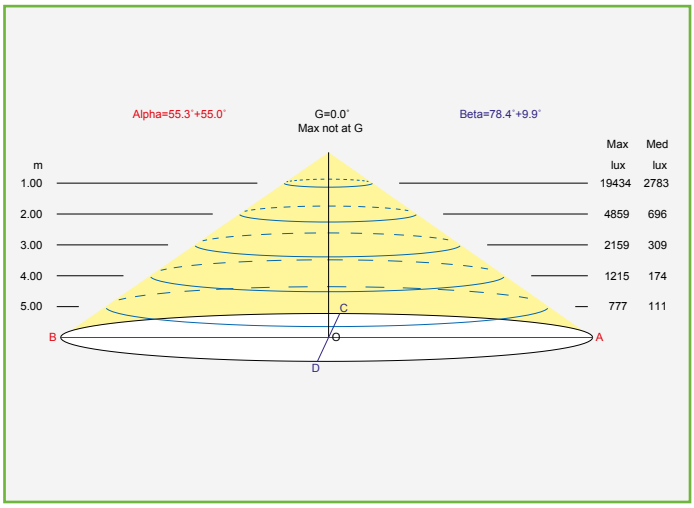
ENERGYLABEL

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.



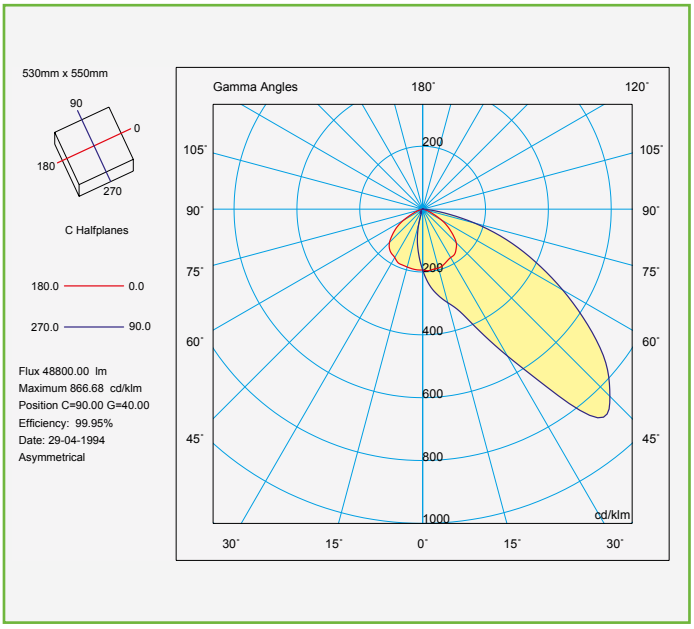


BEAM

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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MULTIFUNCTIONAL MAHA

REFERENCE	WATT	LUMEN	COLOR	ANGLE	WIFI
171-0007	150 W	19500 Lm	4000 K	Asymm.	Optional
171-0008	150 W	19500 Lm	5000 K	Asymm.	Optional
171-0001	200 W	26000 Lm	4000 K	Asymm.	Optional
171-0002	200 W	26000 Lm	5000 K	Asymm.	Optional
171-0003	300 W	39000 Lm	4000 K	Asymm.	Optional
171-0004	300 W	39000 Lm	5000 K	Asymm.	Optional
171-0005	400 W	52000 Lm	4000 K	Asymm.	Optional
171-0006	400 W	52000 Lm	5000 K	Asymm.	Optional