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next generation led

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FLOOD PRO

Properties

- SSL (Solid State Light) LED with more than 50% saving in comparison with HID (discharge)
- Very high light output and good color rendering
- Patented heat dissipation
- Lifespan L80%: > 50.000 hours
- Variable AC/DC supply voltage without adapter or transformer
- High power factor and low harmonic distortion
- Instant startup and flicker free
- Even light distribution, high uniformity and no glare
- CE, TUV en RoHS certifications
- Built-in surge and thermal protection
- No maintenance
- Optional: motion sensor
- Warranty: 3 years

CRI 80 | 50.000 h | 110 Lm/W | IP65/IP67

Specifications

Power	30 W	50 W	70 W
Luminous intensity	3.300 lm	5.500 lm	7.700 lm
Replaces HID lamp	50-100 W	100-150 W	150-200W
Input Voltage	AC 80-315Vdc / 80-400 Vdc		
Color temperature	2000 K - 6000 K		
Color rendering index	>70 Ra		
Beam angle	60° and 100°		
Temperature in use	-40°C ~ +60°C		
Humidity	10% ~ 95%		
Power factor (Pf)	≥ 0.98		

Application

Architecture, squares, stadiums and sports fields, tunnels, parks, gardens, showrooms, parking billboards, large stores, service stations, cold storage

Updated: June 2017

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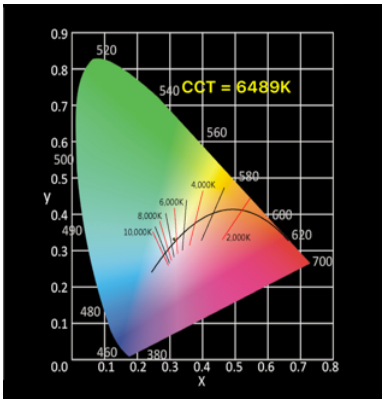
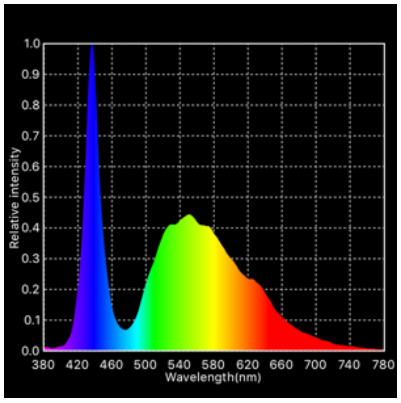
CIE 1931

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.



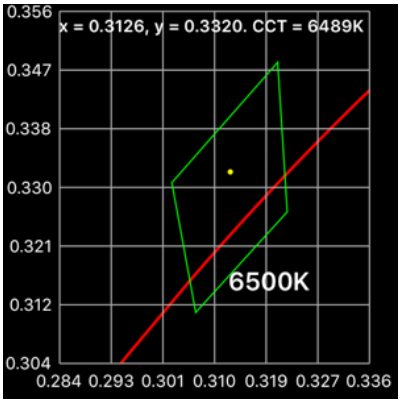


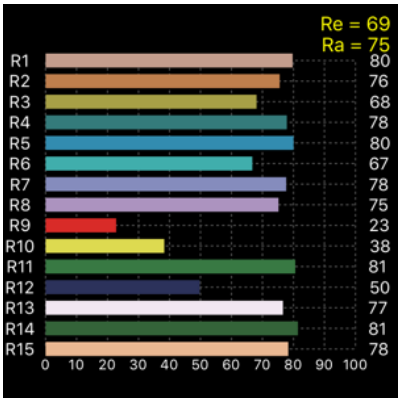
SPECTRUM

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.

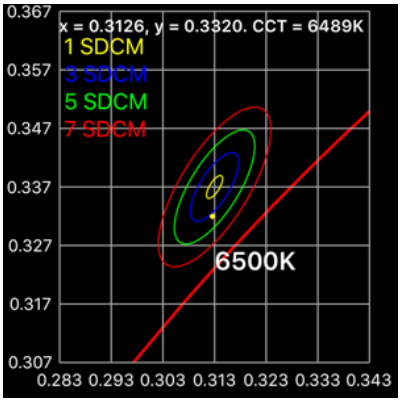




CRI HISTOGRAM

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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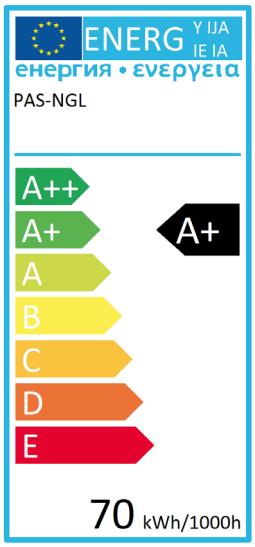
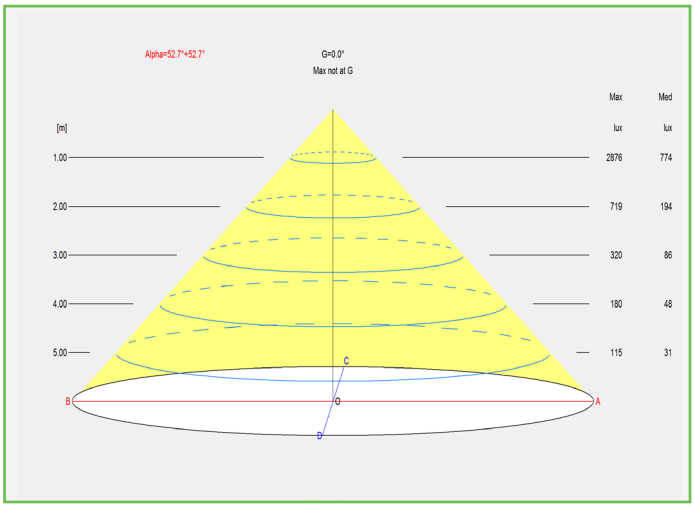
ENERGYLABEL

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.



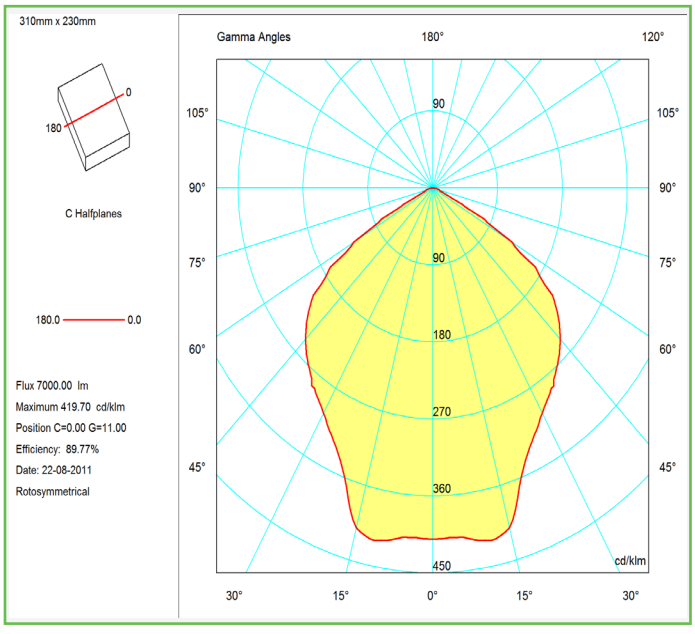


BEAM

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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COMPACT FLOOD OSRAM LUW CQAR

REFERENCE	WATT	WARRANTY	LUMEN	COLOR	BEAM ANGLE	DIMMABLE
165-0001	30 W	3 year	3300 Lm	4000 K	60°	no
165-0002	30 W	3 year	3300 Lm	4000 K	100°	no
165-0003	30 W	3 year	3300 Lm	6000 K	60°	no
165-0004	30 W	3 year	3300 Lm	6000 K	100°	no
165-0005	30 W	5 year	3300 Lm	4000 K	60°	no
165-0006	30 W	5 year	3300 Lm	4000 K	100°	no
165-0007	30 W	5 year	3300 Lm	6000 K	60°	no
165-0008	30 W	5 year	3300 Lm	6000 K	100°	no
165-0009	50 W	3 year	5500 Lm	4000 K	60°	no
165-0010	50 W	3 year	5500 Lm	4000 K	100°	no
165-0011	50 W	3 year	5500 Lm	6000 K	60°	no
165-0012	50 W	3 year	5500 Lm	6000 K	100°	no
165-0013	50 W	5 year	5500 Lm	4000 K	60°	no
165-0014	50 W	5 year	5500 Lm	4000 K	100°	no
165-0015	50 W	5 year	5500 Lm	6000 K	60°	no
165-0016	50 W	5 year	5500 Lm	6000 K	100°	no
165-0017	70 W	3 year	7700 Lm	4000 K	60°	no
165-0018	70 W	3 year	7700 Lm	4000 K	100°	no
165-0019	70 W	3 year	7700 Lm	6000 K	60°	no
165-0020	70 W	3 year	7700 Lm	6000 K	100°	no
165-0021	70 W	5 year	7700 Lm	4000 K	60°	no
165-0022	70 W	5 year	7700 Lm	4000 K	100°	no
165-0023	70 W	5 year	7700 Lm	6000 K	60°	no
165-0024	70 W	5 year	7700 Lm	6000 K	100°	no