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next generation led

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PROJECTOR SFX SUFA-X

Properties

- Lifespan L70 %: > 50.000 hours
- Energy savings up to 65%
- Boosted installation efficiency thanks to the slimmed-down product
- Efficacy : 100-110 lm/W depending on CRI
- Linkage with wired, wireless control systems
- Comes in diverse angles of 15, 30 and 45 degrees
- Stable cooling structure that points the heat release
- Cast aluminum body and tempered glass 3.2T (Clear)
- Bracket installation with up down tilt structure
- Optimal lighting in consideration of athletes, spectators and live broadcasting settings

Application

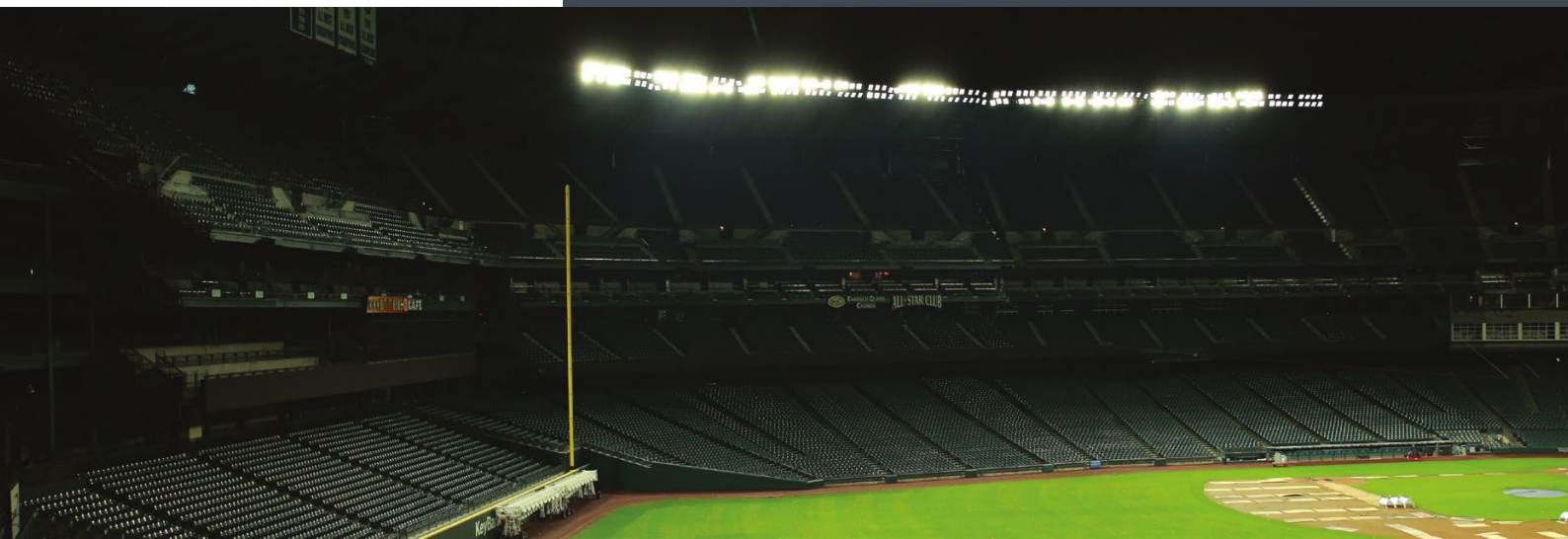
Sport stadiums, indoor venues, air & seaport

IP 66 | CRI 70/80 | Narrow Beam | Wireless | 105 lm/W

Specifications

SUFA-X	SFX200	SFX400	SFX500
Power	200W	400W	500W
Luminous flux	21000/20000 lm	42000/44800 lm	52500/55000 lm
Powerfactor (Pf)	≥ 0.9		
Input voltage	AC200 ~ 277V / 347 ~ 480V / 50-60Hz		
Color rendering index	80/90Ra	80/70Ra	80/70Ra
Color temperature	5000K (3000K, 4000K, 5700K available)		
Beam Angle	15° / 20° / 30° / 45°		
Temperature in use	- 30°C ~ 55°C		
Size	208/220/386mm	323/412/393mm	
Weight	6,6kg	16,6kg	

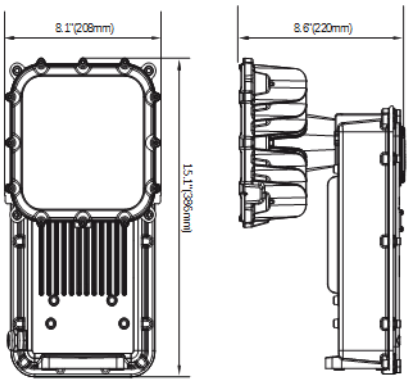
Updated: August 2017



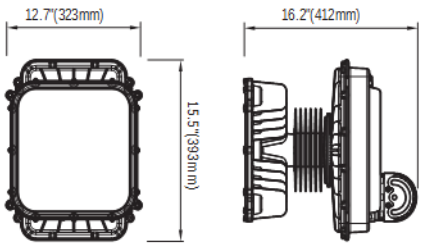
Specifications

SUFA-X	SFX600W	SFX800W	SFX1000W	SFX1200W
Power	600W	800W	1000W	1200W
Luminous flux	63000/66000 lm	84000/88000 lm	105000/110000 lm	126000/132000 lm
Powerfactor (Pf)	≥ 0.9			
Input voltage	AC200 ~ 277V / 347 ~ 480V / 50-60Hz			
Color rendering index	80/70Ra	80/70Ra	80/70Ra	80/70Ra
Color temperature	5000K (3000K, 4000K, 5700K available)			
Beam Angle	15° / 20° / 30° / 45°			
Temperature in use	- 30°C ~ 55°C			
Size	323/412/393mm	323/426/632mm		
Weight	16,6kg	32kg		

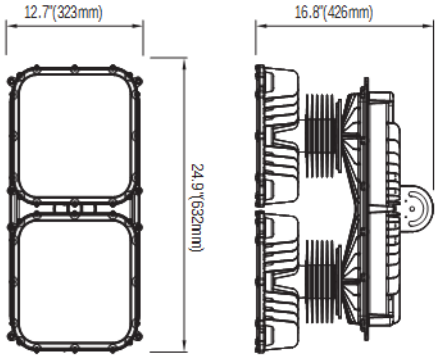
• SFX200

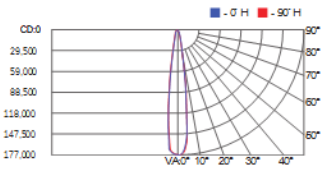


• SFX400/SFX500/SFX600

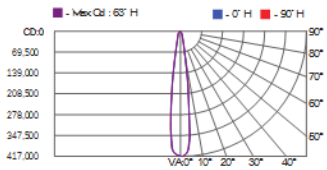


• SFX800/SFX1K0/SFX1K2

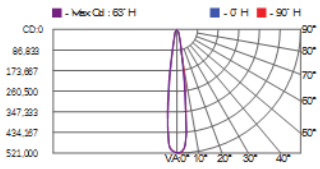




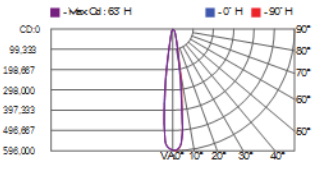
[SFX200 / 5000K / 15° / 70Ra]



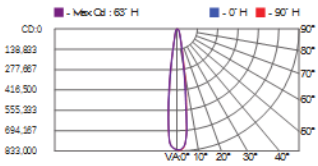
[SFX400 / 5000K / 15° / 70Ra]



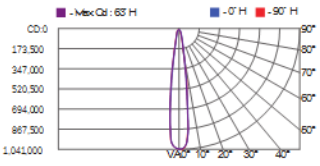
[SFX500 / 5000K / 15° / 70Ra]



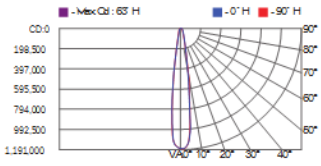
[SFX600 / 5000K / 15° / 70Ra]



[SFX800 / 5000K / 15° / 70Ra]



[SFX1K0 / 5000K / 15° / 70Ra]



[SFX1K2 / 5000K / 15° / 70Ra]

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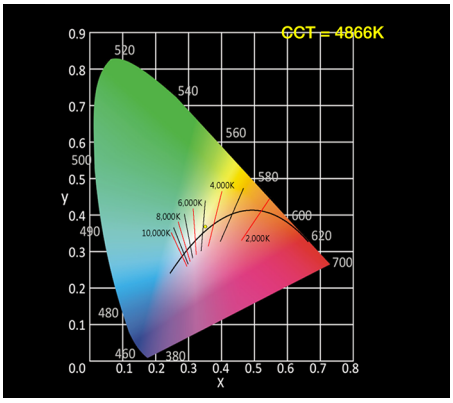
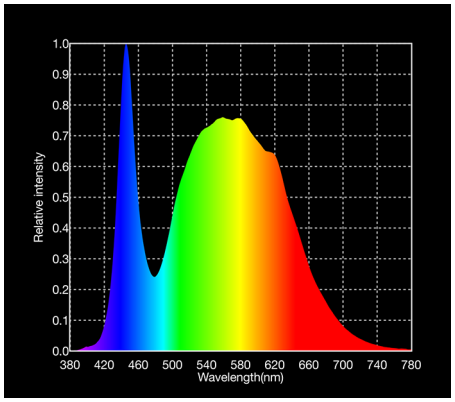
CIE 1931



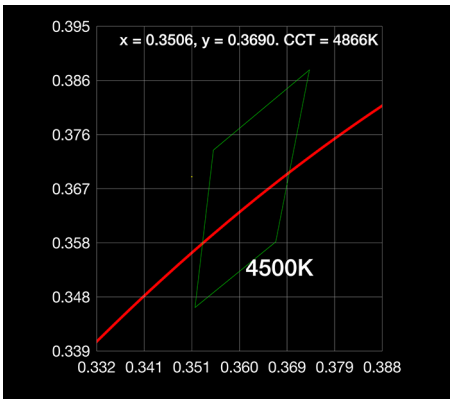
The CIE color space, developed in 1931, is still used to define colors, and as a reference for other color spaces. The figure is a two-dimensional display of colors of the same intensity (brightness), which is based on observations of color measurements by people.



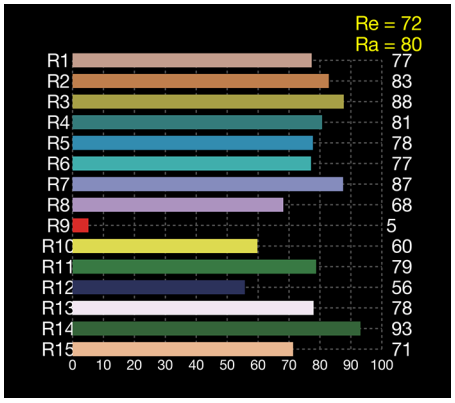
SPECTRUM

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



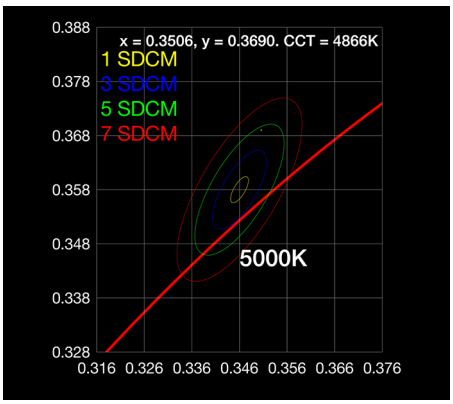
ANSI C 78.377 is now the standard for color quality, as determined by the American National Standards Institute. ANSI recommends lamp manufacturers to stay within a 4-step ellipse. This means that manufacturers with a particular focus on the CIE diagram have a broad range of observable differences.



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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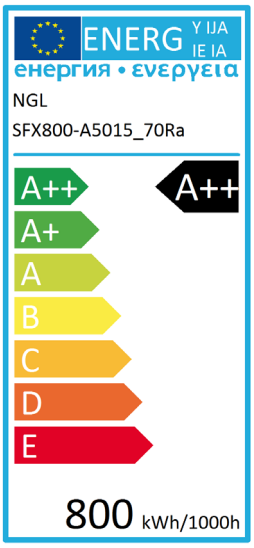
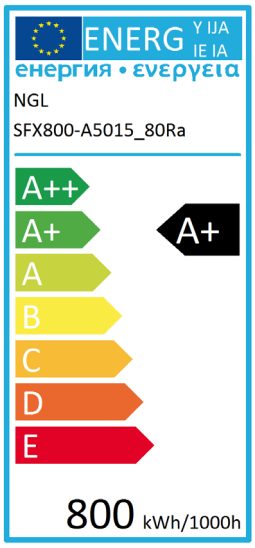
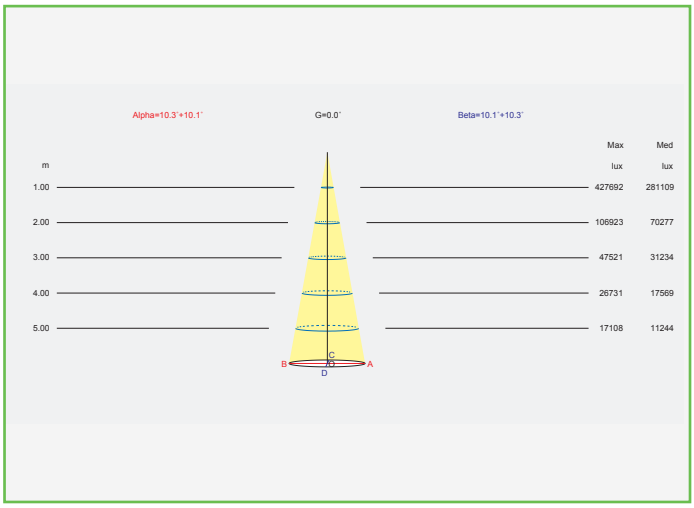
ENERGYLABEL

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.





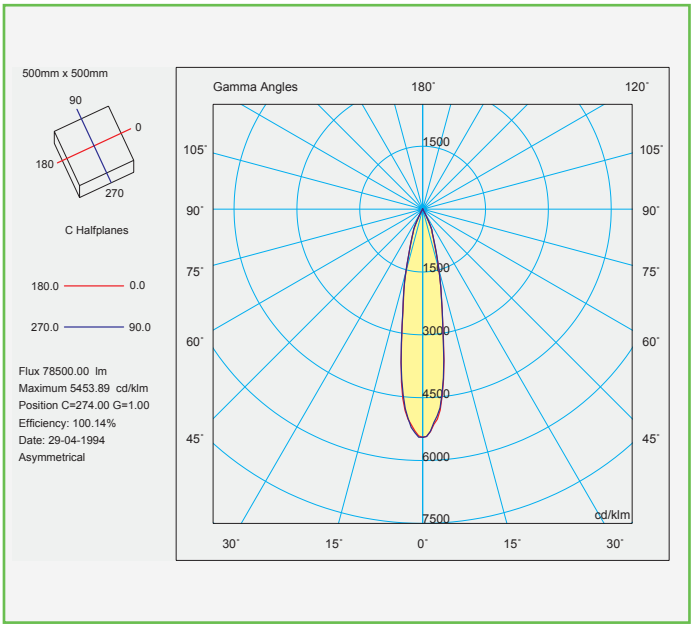


BEAM

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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PROJECTOR SUFA-X

REFERENCE	WATT	LUMEN	COLOR	ANGLE	WIFI
175-0100	200 W	21000 lm	4000 K	*15°~20°~30°~45°	Optional
175-0101	200 W	21000 lm	5000 K	*15°~20°~30°~45°	Optional
175-0102	400 W	42000 lm	4000 K	*15°~20°~30°~45°	Optional
175-0103	400 W	42000 lm	5000 K	*15°~20°~30°~45°	Optional
175-0104	500 W	52500 lm	4000 K	*15°~20°~30°~45°	Optional
175-0105	500 W	52500 lm	5000 K	*15°~20°~30°~45°	Optional
175-0106	600 W	63000 lm	4000 K	*15°~20°~30°~45°	Optional
175-0107	600 W	63000 lm	5000 K	*15°~20°~30°~45°	Optional
175-0108	800 W	84000 lm	4000 K	*15°~20°~30°~45°	Optional
175-0109	800 W	84000 lm	5000 K	*15°~20°~30°~45°	Optional
175-0110	1000 W	105000 lm	4000 K	*15°~20°~30°~45°	Optional
175-0111	1000 W	105000 lm	5000 K	*15°~20°~30°~45°	Optional
175-0112	1200 W	126000 lm	4000 K	*15°~20°~30°~45°	Optional
175-0113	1200 W	126000 lm	5000 K	*15°~20°~30°~45°	Optional

* please specify the desired angle upon ordering