



next generation led

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

# HIGH BAY SEGA HIGH POWER



## Properties

- Lifespan L70 %: > 50.000 hr
- Energy savings up to 65%
- Efficacy : 125 lm per watt
- Wireless lighting control in option
- Maximized heat dissipation via unique vertical cooling structure
- Cast aluminum body and tempered glass (4T)- clear & frosted
- No UV radiation, high light uniformity and minimized glare
- Ceiling bracket (pipe & chain)
- Warranty : 5 years

IP 65

125 lm / W

## Specifications

SEGA	SH400	SH500
Power	400 W	500 W
Luminous flux		
clear	50000 lm	62500 lm
frosted	46000 lm	57500 lm
Input voltage	AC 200 - 277 V / AC347 - 480 V - 50/60Hz	
Color rendering index	Ra >80	
Color temperature	4000 K - 5000 K	
Temperature in use	- 30°C ~ 60°C	
Beam Angle	70°	
Size	dia 480/847	dia 620/860
Weight	17 kg	32 kg

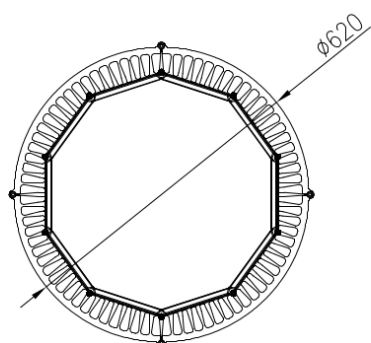
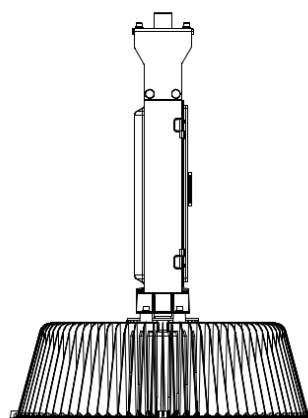
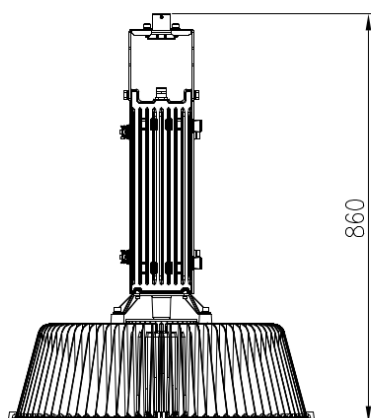
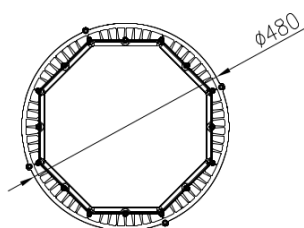
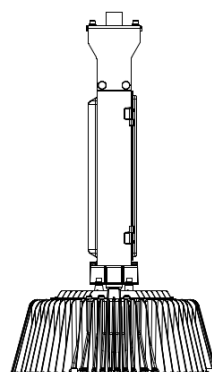
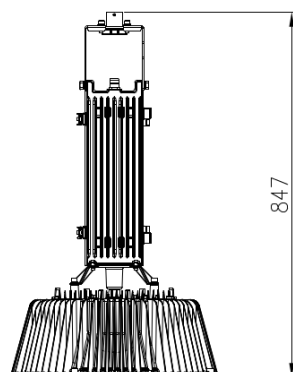
## Application

Showroom, auditorium, warehouse,  
factory, gyms, ...

Updated: August 2017

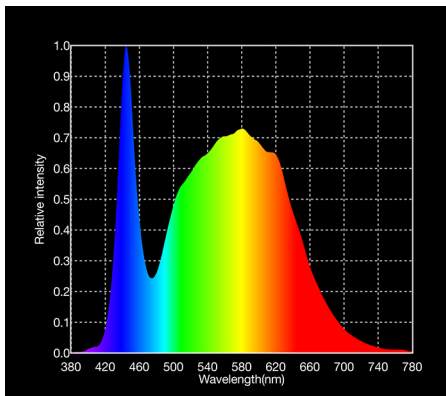
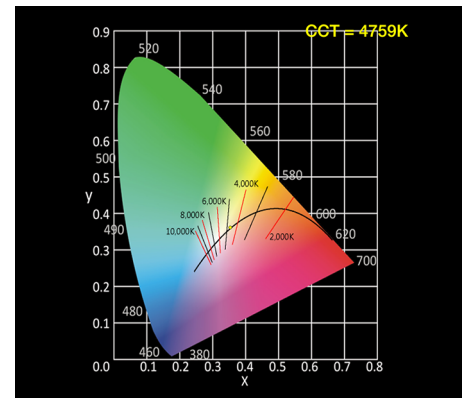


## Specifications



## 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.

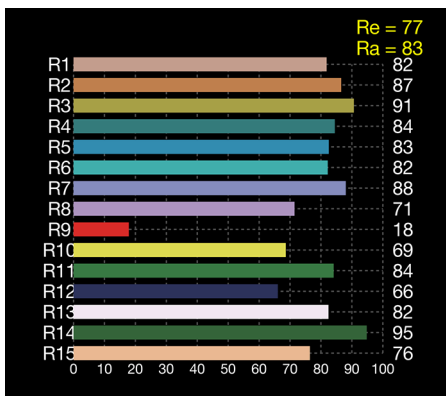
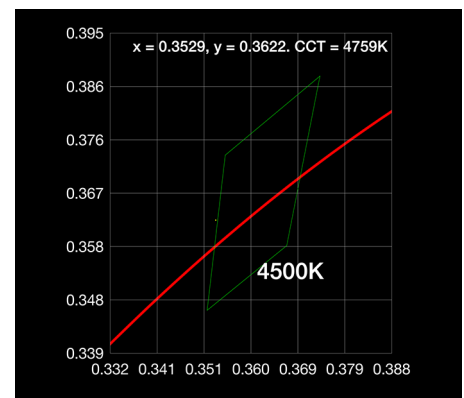


## SPECTRUM

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

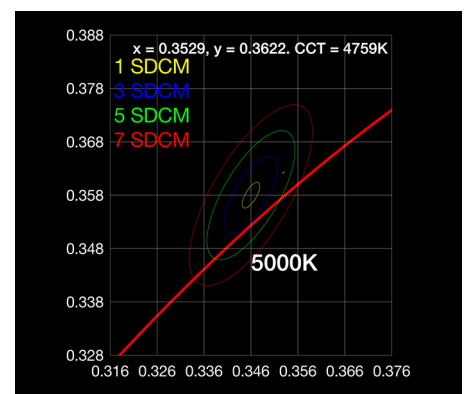
Re = average of R1 to R15

R9 = saturated red. Should be as high as possible.

## SDCM

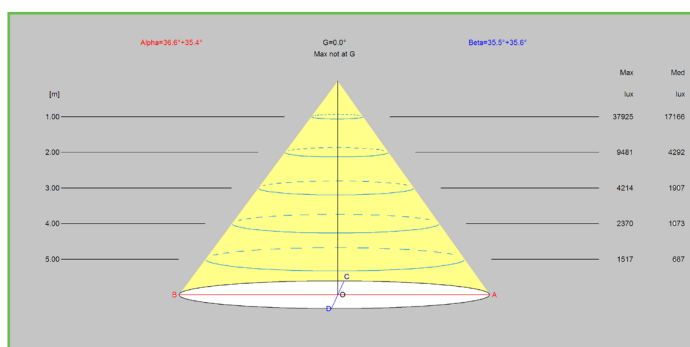
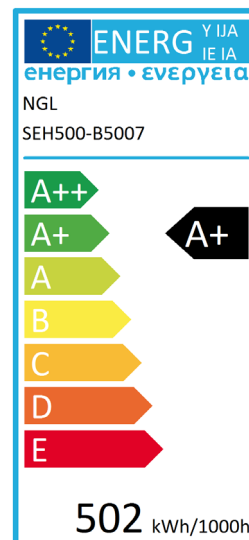
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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

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



## 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.

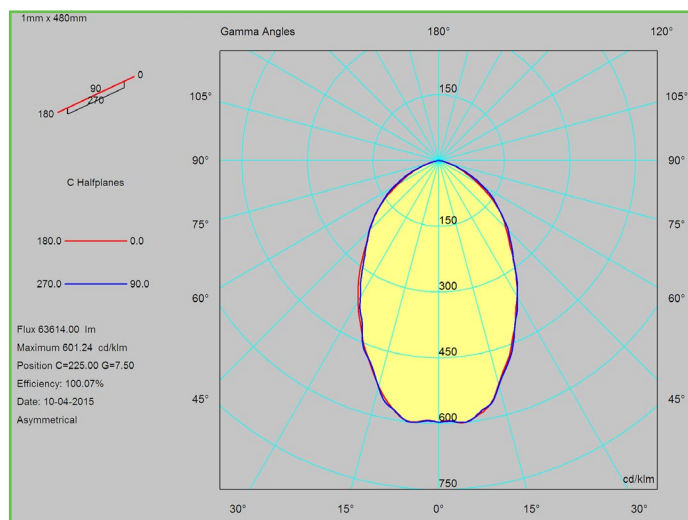


## BEAM

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.



## HIGH BAY SEGA HIGH POWER

REFERENCE	WATT	LUMEN	COLOR	BUNDEL	COVER
180-0280	400 W	50000 lm	4000 K	70 °	Clear
180-0281	400 W	50000 lm	5000 K	70 °	Clear
180-0282	400 W	46000 lm	4000 K	70 °	Frosted
180-0283	400 W	46000 lm	5000 K	70 °	Frosted
180-0284	500 W	62500 lm	4000 K	70 °	Clear
180-0285	500 W	62500 lm	5000 K	70 °	Clear
180-0286	500 W	57500 lm	4000 K	70 °	Frosted
180-0287	500 W	57500 lm	5000 K	70 °	Frosted

