



next generation led

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PANEL BAY



Properties

- Lifespan L70 %: > 50.000 hours
- No UV production, environment friendly
- Aluminum base and PC cover
- Safe to be washed with a high-pressure cleaner
- Designed for dirty and wet environments
- 480 pcs 2835 LEDs
- Excellent uniformity
- Warranty : 5 years

IP 66	0-10V dimming standard	120 lm/W	DALI dimming optional
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Specifications

BAY PANEL	240W	200W	180W	150W
Power	240W	200W	180W	150W
Size	600x600x150mm			
Lumen production	28800lm	24000lm	21600lm	18000lm
Color rendering index	Ra >80			
Beam angle	120 °			
Input voltage	AC100-240 V / 50 - 60 Hz			
Color temperature	4000 K			
Temperature in use	- 40°C ~ + 50°C			

Applications

Any dusty or wet working environment where an IP66 panel is needed.

Updated: August 2018

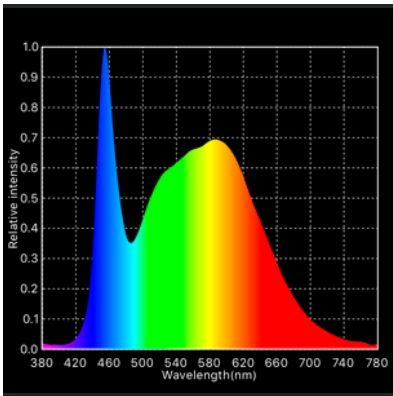
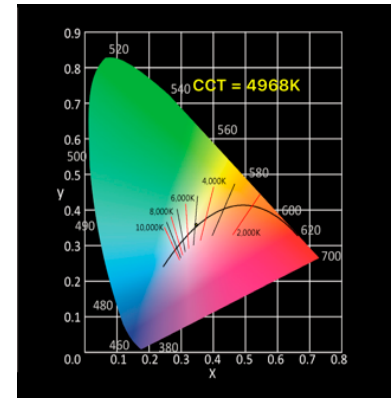


Specifications

BAY PANEL		
Power	100W	80W
Size	600x600x150mm	
Lumen production	12000lm	9600lm
Color rendering index	Ra >80	
Beam angle	120 °	
Input voltage	AC100-240 V / 50-60 Hz	
Color temperature	4000 K	
Temperature in use	- 40°C ~ + 50°C	

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.

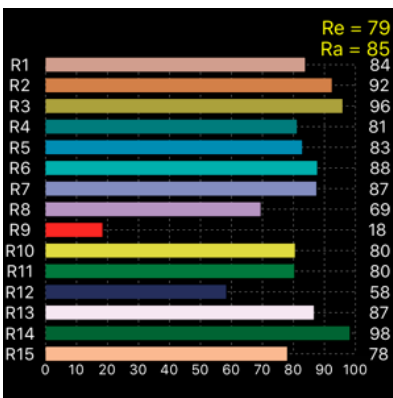
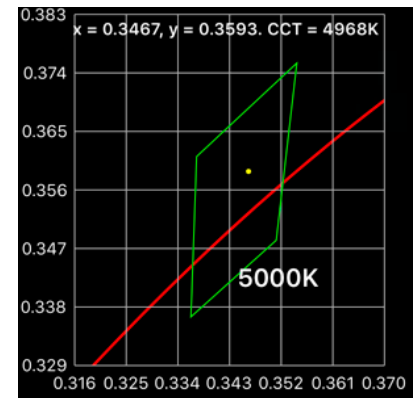


SPECTRUM

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

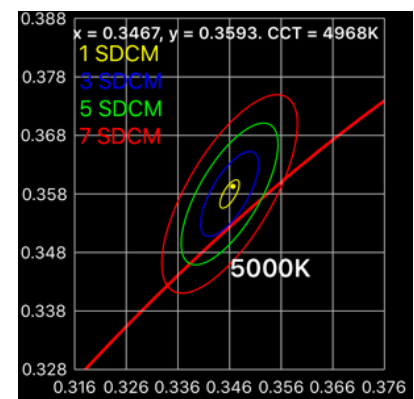
Re = average of R1 to R15

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

SDCM

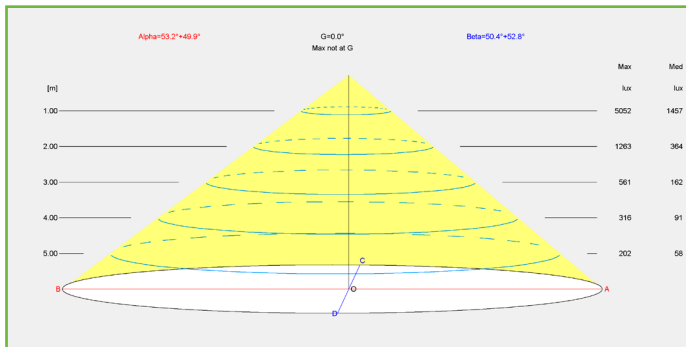
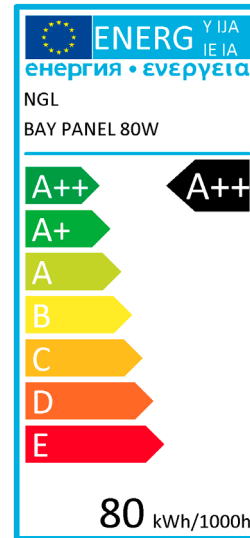
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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

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



ENERGY LABEL

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.

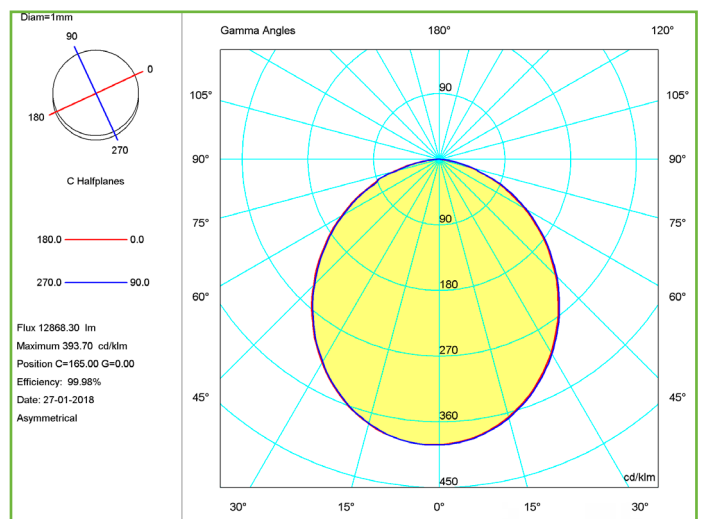


BEAM

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.



BAY PANEL

REFERENCE	SIZE	WATT	LUMEN	COLOR	BEAM
185-0700	60 x 60 x 15	240 W	28800 lm	4000 K	120°
185-0701	60 x 60 x 15	200 W	24000 lm	4000 K	120°
185-0702	60 x 60 x 15	180 W	21600 lm	4000 K	120°
185-0703	60 x 60 x 15	150 W	18000 lm	4000 K	120°
185-0704	60 x 60 x 15	100 W	12000 lm	4000 K	120°
185-0705	60 x 60 x 15	80 W	12000 lm	4000 K	120°

REFERENCE	TYPE	WATTAGE	MANUFACTURER
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Drivers:

805-0040	0-10 V	240 W	Meanwell
805-0041	0-10 V	200 W	Meanwell
805-0042	0-10 V	180 W	Meanwell
805-0043	0-10 V	150 W	Meanwell
805-0044	0-10 V	100 W	Meanwell
805-0045	0-10 V	80 W	Meanwell
805-0046	DALI	240 W	Meanwell
805-0047	DALI	200 W	Meanwell
805-0048	DALI	180 W	Meanwell
805-0049	DALI	150 W	Meanwell
805-0050	DALI	100 W	Meanwell

