



next generation led

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PANEL ECO



Properties

- Lifespan L70 %: > 50.000 hours
- Saving upto 65%
- Efficacy : 95 lm/W
- No UV production, environment friendly
- Excellent uniformity
- OEM - possibility for personalisation
- Build-on frame available
- Warranty : 5 years

IP 20

OEM

95 lm/W

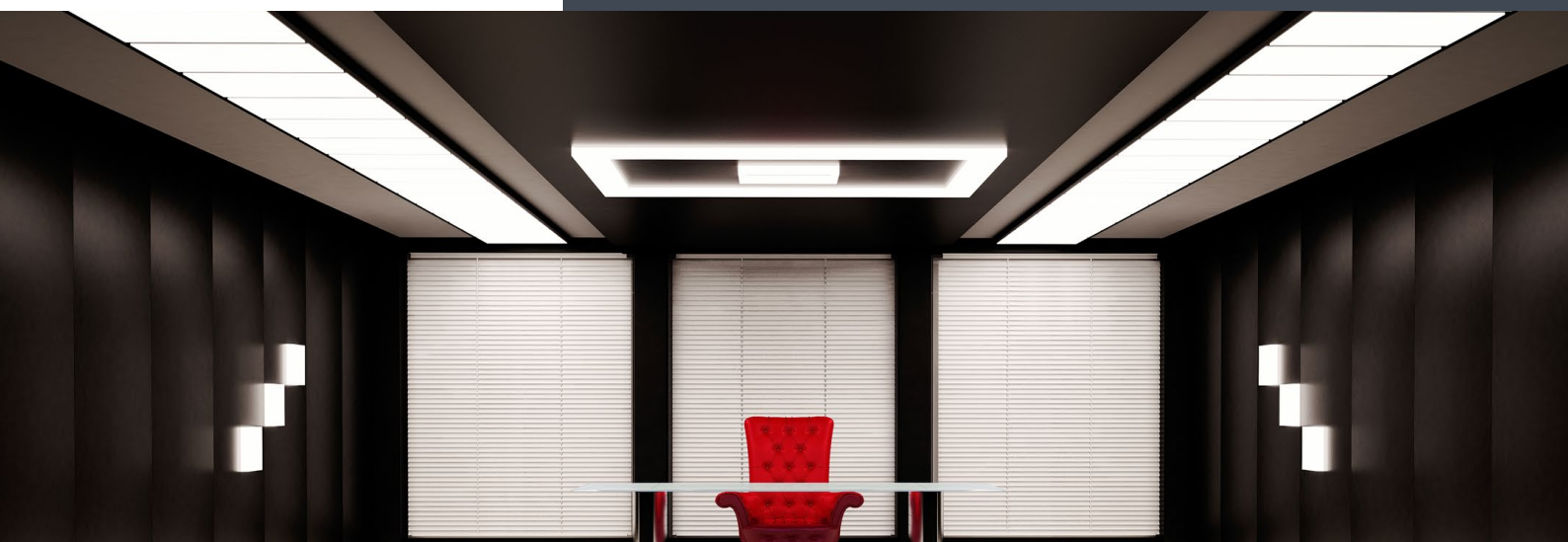
Specifications

ECO PANEL	30X30 18	30X30 36	60X30 18	60X30 36
Power	18 W	36 W	18 W	36 W
Size	300x300	300x300	600x300	600x300
Thickness	11 mm	11 mm	11 mm	11 mm
Lumen production	1700 Lm	3400 Lm	1700 Lm	3400 Lm
N° of LED's	60	120	60	120
Color rendering index	Ra >80			
Beam angle	110 °			
Input voltage	AC100-240 V / 50 - 60 Hz			
Color temperature	3000 K - 4000 K - 5000 K - 5700 K			
Temperature in use	- 10°C ~ + 40°C			

Applications

Offices, showrooms, meeting room,
hall, ...

Updated: August 2017

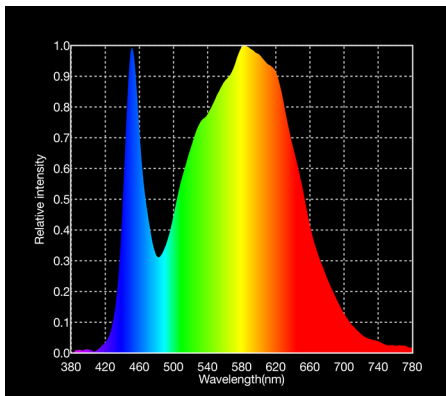
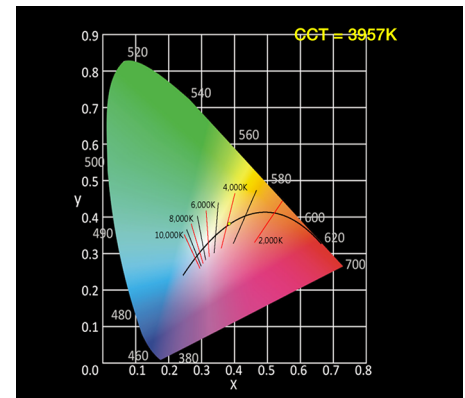


Specifications

ECO PANEL	60X60 36	60X60 48	60X60 72	120X30 36	120x30 72	120x60 72
Power	36 W	48 W	72 W	36 W	72 W	72 W
Size	600x600	600x600	600x600	1200x300	1200X300	1200X600
Thickness	11 mm	11 mm	11 mm	11 mm	11 mm	11 mm
Lumen production	3400 Lm	4560 Lm	6840 Lm	2880 Lm	6840 Lm	6840 Lm
N° of LED's	120	120	240	120	120	240
Color rendering index	Ra >80					
Beam angle	110 °					
Input voltage	AC100-240 V / 50-60 Hz					
Color temperature	3000 K - 4000 K - 5000 K - 5700 K					
Temperature in use	- 10°C ~ + 40°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.

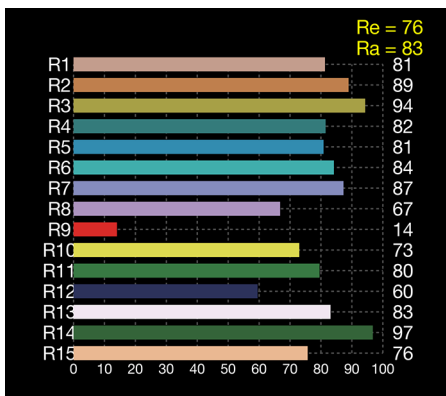
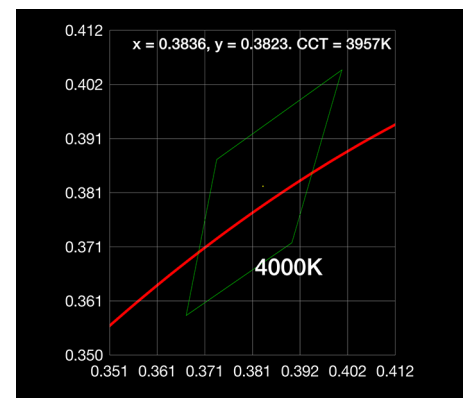


SPECTRUM

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

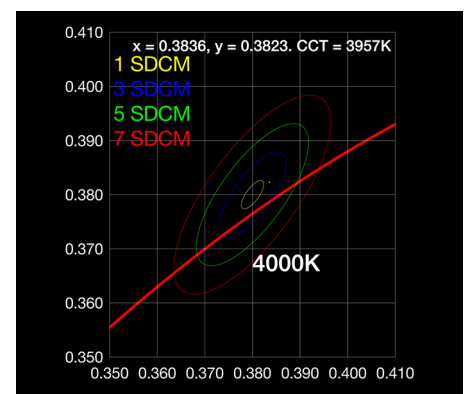
Re = average of R1 to R15

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

SDCM

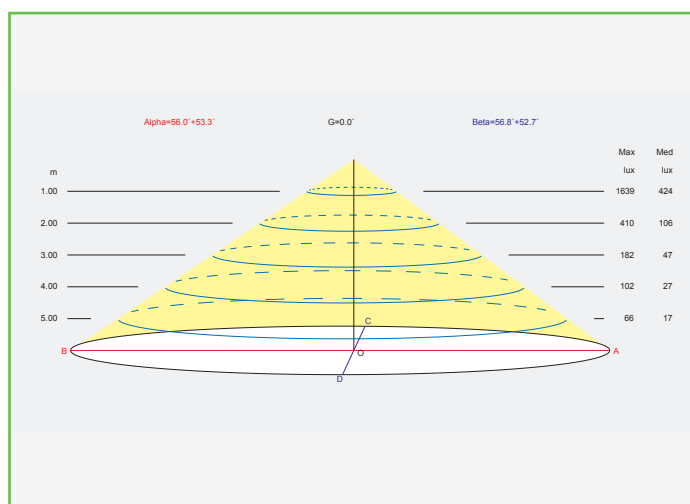
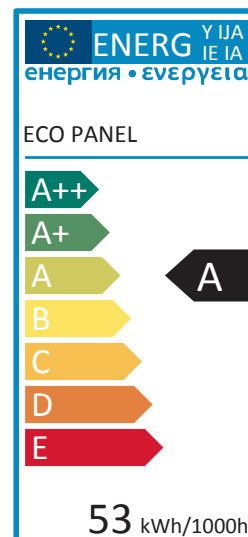
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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

SDCM	CCT @ 3000K	ΔU_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.

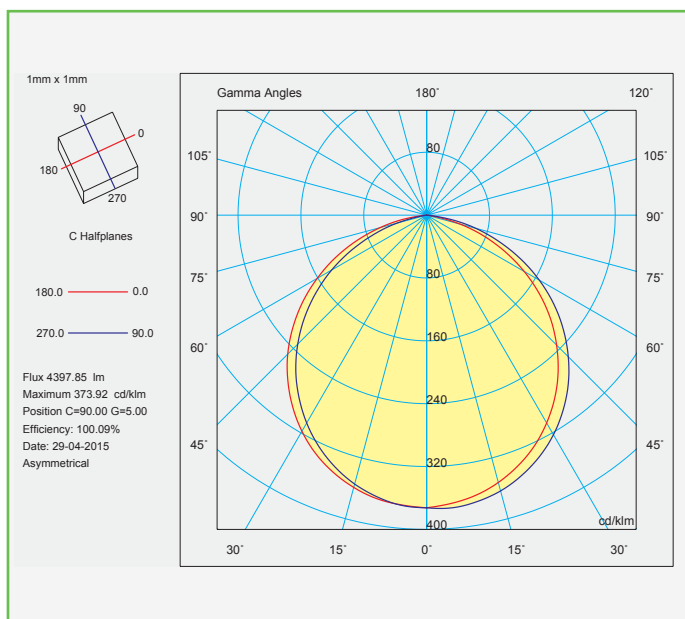


BEAM

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.



PANEL ECO

REFERENCE	SIZE	WATT	LUMEN	COLOR	BEAM
185-0200	30 x 30	18 W	1700 Lm	3000 K	110°
185-0201	30 x 30	18 W	1700 Lm	4000 K	110°
185-0202	30 x 30	18 W	1700 Lm	5000 K	110°
185-0203	30 x 30	18 W	1700 Lm	5700 K	110°
185-0204	30 x 30	36 W	3400 Lm	3000 K	110°
185-0205	30 x 30	36 W	3400 Lm	4000 K	110°
185-0206	30 x 30	36 W	3400 Lm	5000 K	110°
185-0207	30 x 30	36 W	3400 Lm	5700 K	110°
185-0208	60 x 30	18 W	1700 Lm	3000 K	110°
185-0209	60 x 30	18 W	1700 Lm	4000 K	110°
185-0210	60 x 30	18 W	1700 Lm	5000 K	110°
185-0211	60 x 30	18 W	1700 Lm	5700 K	110°
185-0212	60 x 30	36 W	3400 Lm	3000 K	110°
185-0213	60 x 30	36 W	3400 Lm	4000 K	110°
185-0214	60 x 30	36 W	3400 Lm	5000 K	110°
185-0215	60 x 30	36 W	3400 Lm	5700 K	110°
185-0216	60 x 60	36 W	3400 Lm	3000 K	110°
185-0217	60 x 60	36 W	3400 Lm	4000 K	110°
185-0218	60 x 60	36 W	3400 Lm	5000 K	110°
185-0219	60 x 60	36 W	3400 Lm	5700 K	110°
185-0220	60 x 60	48 W	4560 Lm	3000 K	110°
185-0221	60 x 60	48 W	4560 Lm	4000 K	110°
185-0222	60 x 60	48 W	4560 Lm	5000 K	110°
185-0223	60 x 60	48 W	4560 Lm	5700 K	110°
185-0224	60 x 60	72 W	6840 Lm	3000 K	110°
185-0225	60 x 60	72 W	6840 Lm	4000 K	110°
185-0226	60 x 60	72 W	6840 Lm	5000 K	110°
185-0227	60 x 60	72 W	6840 Lm	5700 K	110°
185-0228	120 x 30	36 W	3400 Lm	3000 K	110°
185-0229	120 x 30	36 W	3400 Lm	4000 K	110°
185-0230	120 x 30	36 W	3400 Lm	5000 K	110°
185-0231	120 x 30	36 W	3400 Lm	5700 K	110°
185-0232	120 x 30	48 W	4560 Lm	3000 K	110°
185-0233	120 x 30	48 W	4560 Lm	4000 K	110°
185-0234	120 x 30	48 W	4560 Lm	5000 K	110°
185-0235	120 x 30	48 W	4560 Lm	5700 K	110°



PANEL ECO

REFERENCE	SIZE	WATT	LUMEN	COLOR	BEAM
185-0236	120 x 30	72 W	6840 Lm	3000 K	110°
185-0237	120 x 30	72 W	6840 Lm	4000 K	110°
185-0238	120 x 30	72 W	6840 Lm	5000 K	110°
185-0239	120 x 30	72 W	6840 Lm	5700 K	110°
185-0240	120 x 60	72 W	6840 Lm	3000 K	110°
185-0241	120 x 60	72 W	6840 Lm	4000 K	110°
185-0242	120 x 60	72 W	6840 Lm	5000 K	110°
185-0243	120 x 60	72 W	6840 Lm	5700 K	110°

