# next generation led

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# LUNAR PANEL



#### Properties

- Lifespan L70 %: > 50.000 hours
- Saving upto 65%
- IP class 20
- Efficacy : 150 Lm/W
- No UV production, environment friendly
- Excellent uniformity
- Easy installation low weight = 1kg
- OEM possibility for personalisation
- Warranty : 3 years



# Specifications

LUNAR PANEL	60X60 20	60X60 30	120X30 20	120X30 30			
Power	20 W	30 W	20 W	30 W			
Size	598x598	598x598	1200x300	1200x300			
Thickness	82 mm	82 mm	82 mm	82 mm			
Lumen production	3100 Lm	4500 Lm	3100 Lm	4500 Lm			
Color rendering index	Ra >80						
Beam angle	110 °						
IP Class	IP 20						
Input voltage	AC180-240 V / 50 - 60 Hz						
Power factor	>= 0.9						
UGR rate	<19						
Color temperature	3000 K - 4000 K - 5000 K						
Temperature in use	- 10°C ~ + 40°C						

# Applications

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









# Accessories



Hook - Silver 22.3x18 mm



Wall Mount - White 66x31x14 mm



Suspension cord - Silver 3 m



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





											- 10
									F	ła	= 83
R1	_		_		_						81
R2											89
R3											94
R4											82
R5											81
R6											84
R7		•				•					87
R8		i									67
R9											14
R10											73
R11		i									80
B12		-				1					60
R12		•					:				83
R1/											97
D15	_	_	_	_	_	_	_				76
0	10	20	30	40	50	60	70	80	90	10	0

### 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.

<u>SDCM</u>	<u>CCT @ 3000K</u>	Δυν
1x	±30K	±0.0007
2x	±60K	±0.0010
4x	±100K	±0.0020
7-8x	±175K	±0.0060

0.410 x = 0.3836, y = 0.3823. CCT = 3957K 1 SDCM 0.400 5 SDCM 0.390 0.390 0.370 0.360 0.350 0.360 0.360 0.360 0.360 0.360 0.390 0.390 0.4000 0.400 0.40



#### 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.





# LUNAR PANEL

REFERENCE	SIZE	WATT	LUMEN	COLOR	BEAM
185-0600	60 x 60	20 W	3100 Lm	3000 K	110°
185-0601	60 x 60	20 W	3100 Lm	4000 K	110°
185-0602	60 x 60	20 W	3100 Lm	5000 K	110°
185-0603	60 x 60	30 W	4500 Lm	3000 K	110°
185-0604	60 x 60	30 W	4500 Lm	4000 K	110°
185-0605	60 x 60	30 W	4500 Lm	4000 K	110°
185-0606	120 x 60	20 W	3100 Lm	3000 K	110°
185-0607	120 x 60	20 W	3100 Lm	4000 K	110°
185-0608	120 x 60	20 W	3100 Lm	5000 K	110°
185-0609	120 x 60	30 W	4500 Lm	3000 K	110°
185-0610	120 x 60	30 W	4500 Lm	4000 K	110°
185-0611	120 x 60	30 W	4500 Lm	5000 K	110°

