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next generation led

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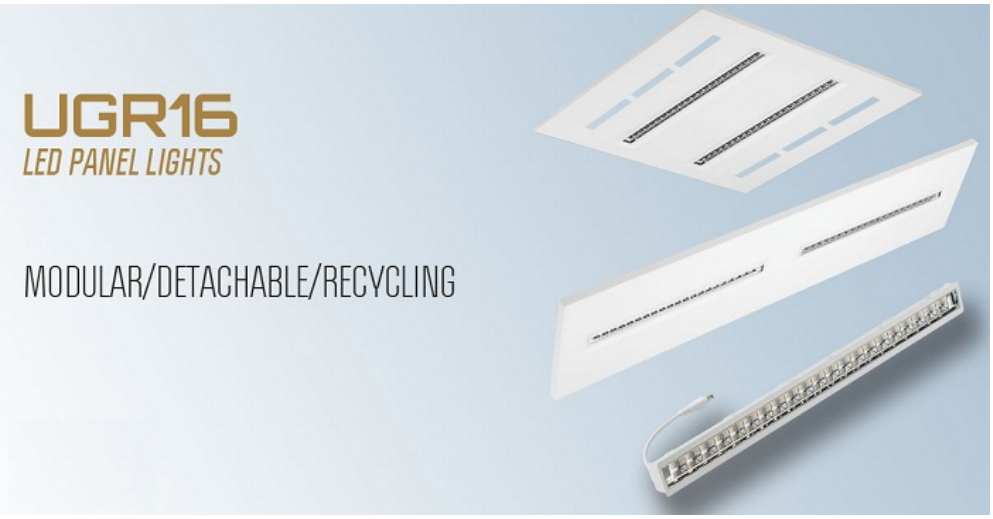


LOW GLARE PANEL

Properties

- Lifespan L70B10 (@55°C): 195.000 hours
- Modular design: 1 pair of light module with different frames fit all European ceiling grids
- Glare free: UGR<16, EN12464-1:2011 compliant
- More useful light, over 90% useful lumen in 90° cone
- Up to 65% energy savings
- Direct replacement for T8-3x18W/4x18W; T5-3x14W/4x14W
- Aluminum passive cooling, TcLED<61°C (Ta=25°C)
- No UV production, environment friendly
- Available in recessed or pendant model
- 85°x70° precision beam control by 2x21 pcs multi-louver
- Warranty : 5 years

Applications

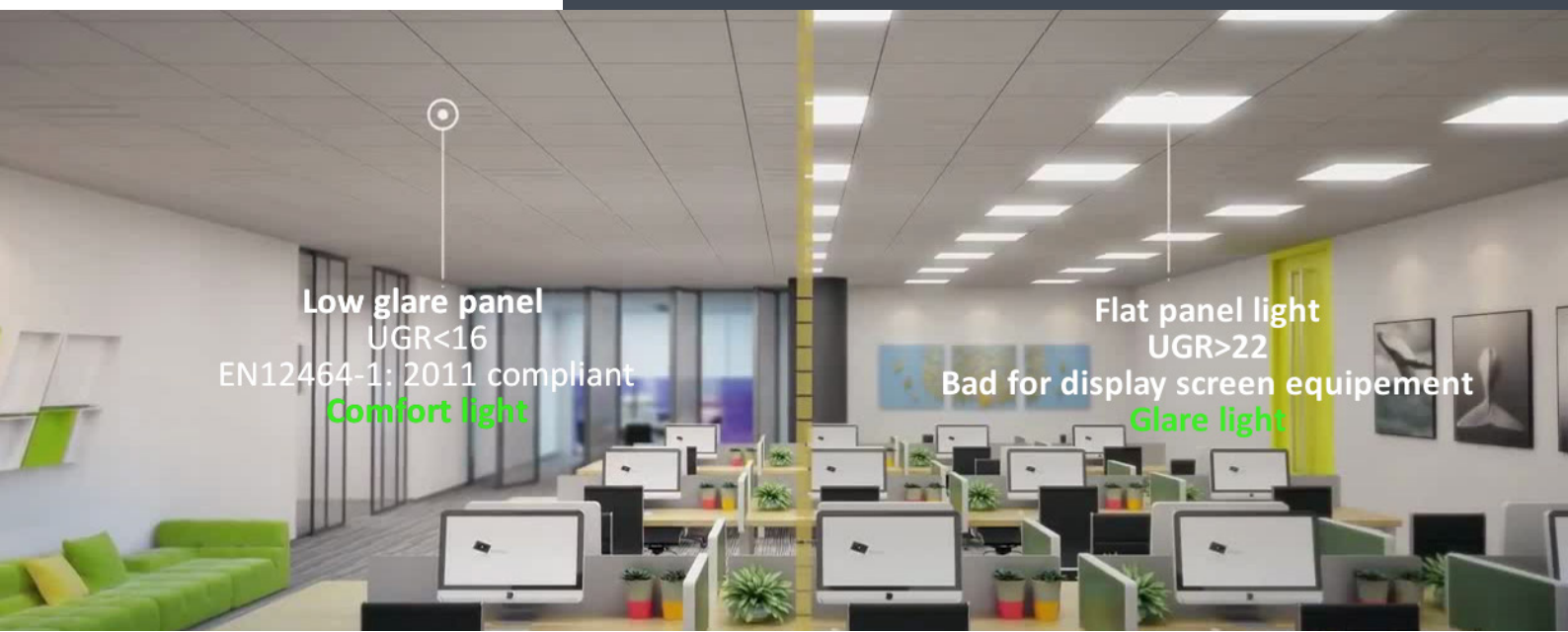
Office, showroom, meeting room, hall-way, hospitals, ...

126 lm/W | Flicker free drivers | Precision beam

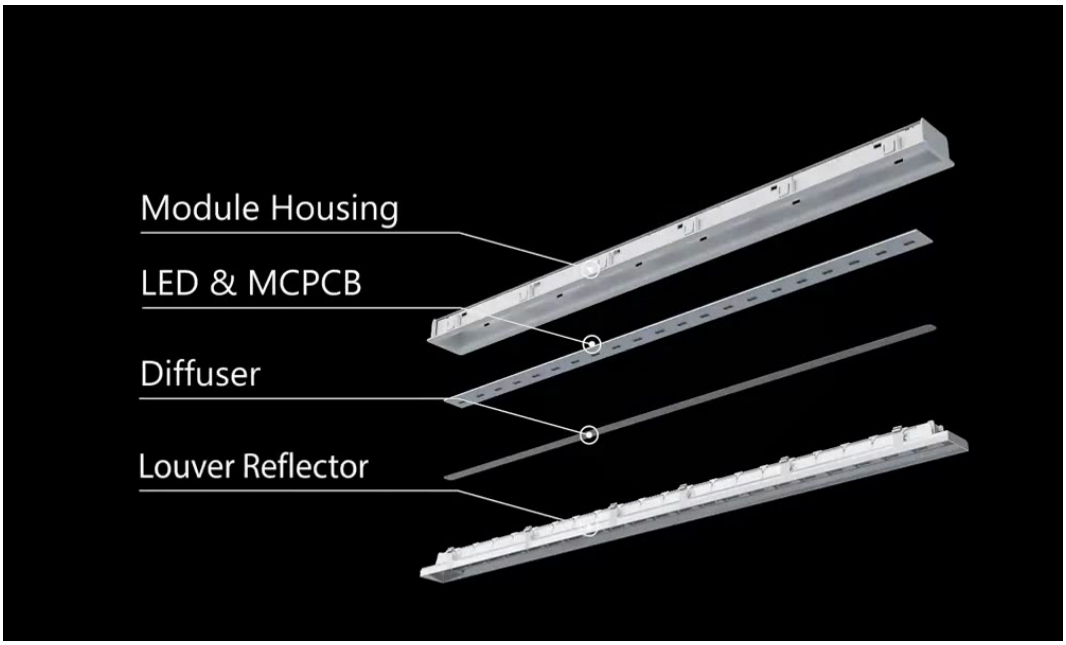
Specifications

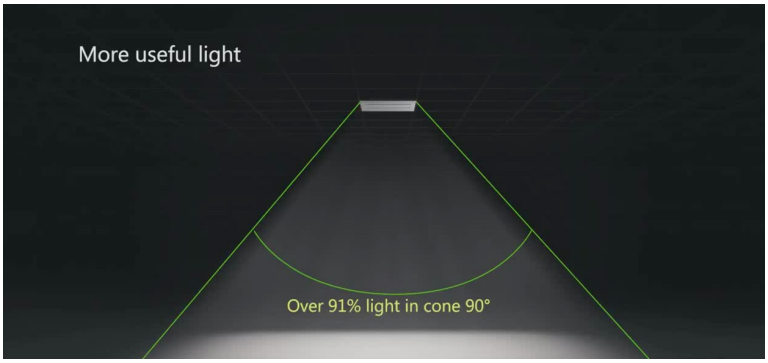
Low Glare Panel	
Power	28W
Lumen production	3600lm
Color rendering index	Ra >80
Input voltage	AC 220 - 240 V / 50/60Hz
Beam angle	85°x70°
Power factor	0.99
Number of LED	2x63 pcs LM80 qualified SMD 28
Color temperature	3000 K - 4000 K - 5000 K
Standard dimension	595x595mm or 295x1195mm
Dimming	Non, DALI or 0-10V

Updated: Feb 2018



Specifications





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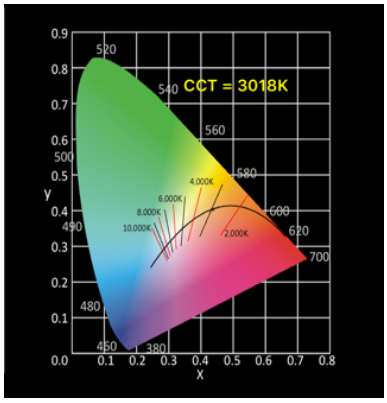
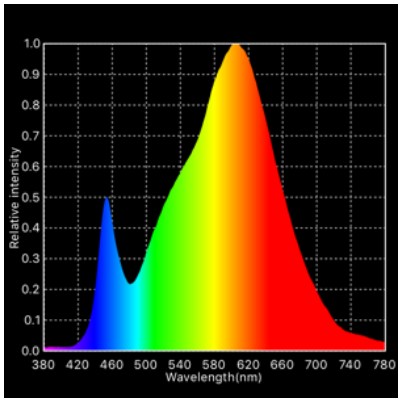
CIE 1931



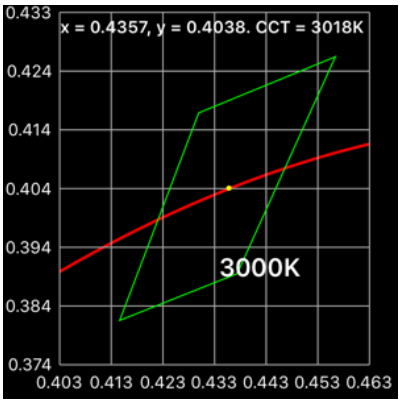
The CIE color space, developed in 1931, is still used to define colors, and as a reference for other color spaces. The figure is a two-dimensional display of colors of the same intensity (brightness), which is based on observations of color measurements by people.



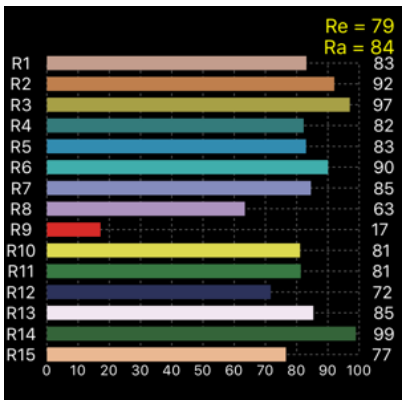
SPECTRUM

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



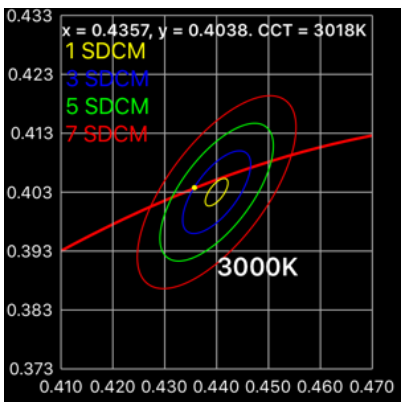
ANSI C 78.377 is now the standard for color quality, as determined by the American National Standards Institute. ANSI recommends lamp manufacturers to stay within a 4-step ellipse. This means that manufacturers with a particular focus on the CIE diagram have a broad range of observable differences.



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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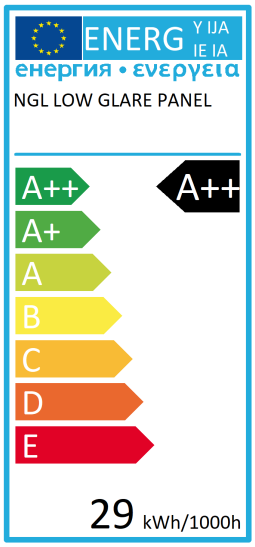
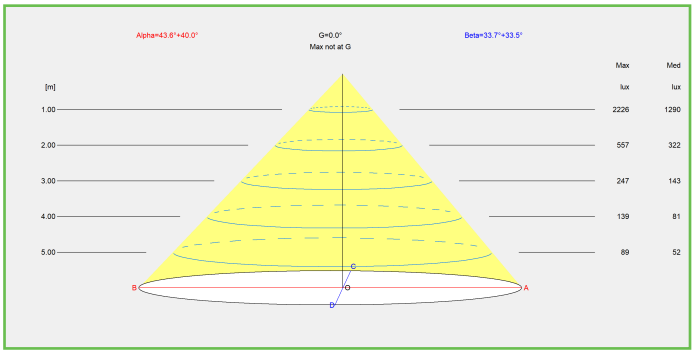
ENERGYLABEL

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.



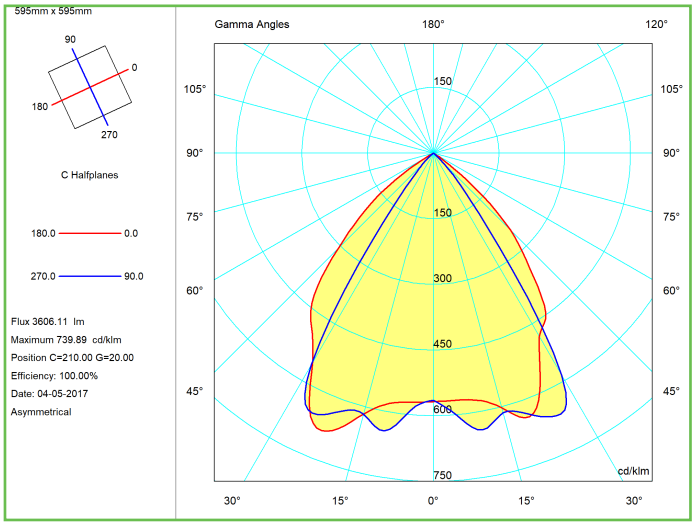
BEAM

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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LOW GLARE PANEL

REFERENCE	SIZE	WATT	LUMEN	COLOR	BEAM
185-0620	60 x 60	28 W	3600 Lm	3000 K	85°x70°
185-0621	60 x 60	28 W	3600 Lm	4000 K	85°x70°
185-0622	60 x 60	28 W	3600 Lm	5000 K	85°x70°
185-0623	30 x 120	28 W	3600 Lm	3000 K	85°x70°
185-0624	30 x 120	28 W	3600 Lm	4000 K	85°x70°
185-0625	30 x 120	28 W	3600 Lm	5000 K	85°x70°
185-0626	modules (a pair)	2x12.5W	3600 Lm	3000 K	85°x70°
185-0627	modules (a pair)	2x12.5W	3600 Lm	4000 K	85°x70°
185-0628	modules (a pair)	2x12.5W	3600 Lm	5000 K	85°x70°

805-0024	driver for modules	28W	flicker free no-dim
805-0025	driver for modules	28W	flicker free 0-10V dim
805-0026	driver for modules	28W	flicker free DALI dim

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