



next generation led

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## DIRECT PANEL



### Properties

- Lifespan L70B10: 50.000 hours
- Mounting: surface, suspended or recessed
- Ideal for office lighting
- Backlit, 3030 SMD LED
- Energy efficient, very low maintenance cost
- DALI or 0-10V dimming in option
- Flicker free driver
- Emergency in option
- Warranty: 6 years

CRI 90

100lm/W

DALI / 0-10V

Emergency

SDCM <3

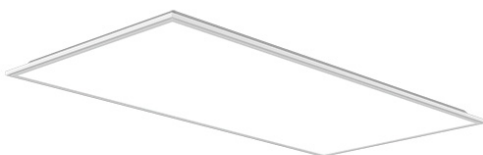
### Specifications

<b>DIRECT PANEL</b>	60X60	120X30	120X60
Power	40W	40W	60W, 80W
Luminous intensity (Lm)	4000lm	4000lm	6000lm, 8000lm
Power factor (Pf)	0.95		
Power supply	AC220-240 V / 50 Hz		
Beam angle	110°		
Color rendering index	<b>90</b>		
Color temperature	4000K (3K, 5K, 6K possible)		
Dimension [mm]	595x595x32	1195x295x32	1195x595x32
Weight[kg]	2.0	2.1	3.75

### Application

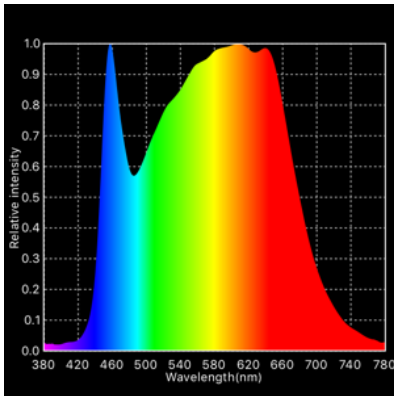
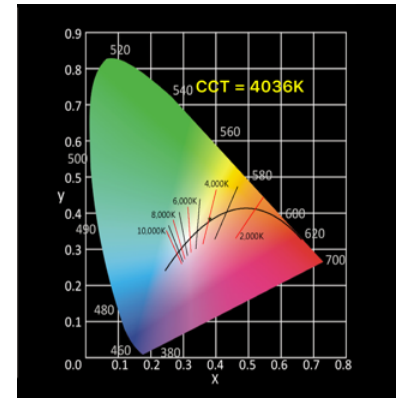
Commercial buildings, offices, conference rooms, hotels, restaurant, public utility buildings, corridors, ...

Updated: June 2019



## 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.

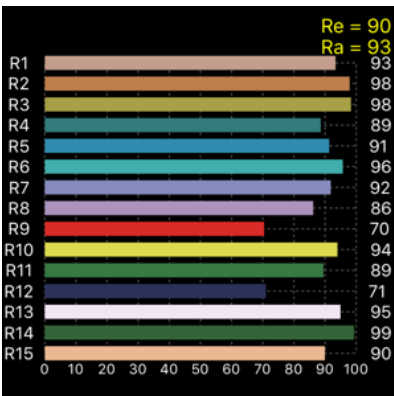
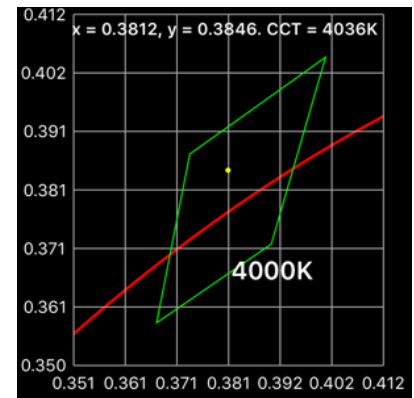


## SPECTRUM

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

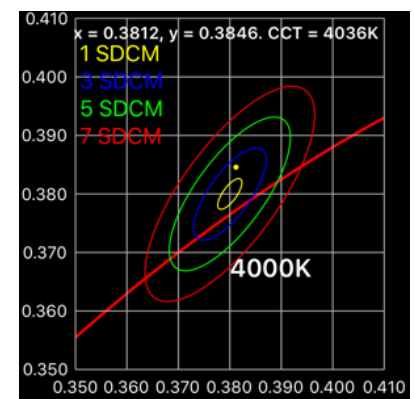
Re = average of R1 to R15

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

## SDCM

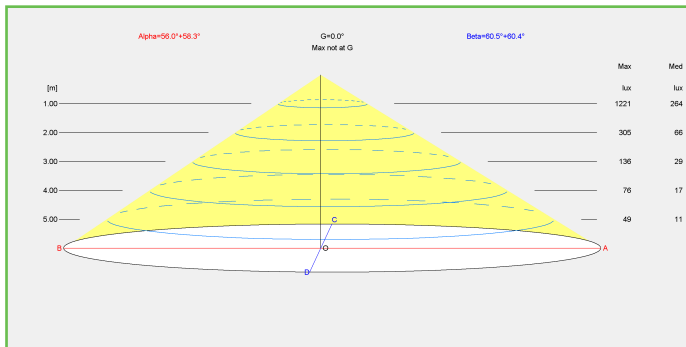
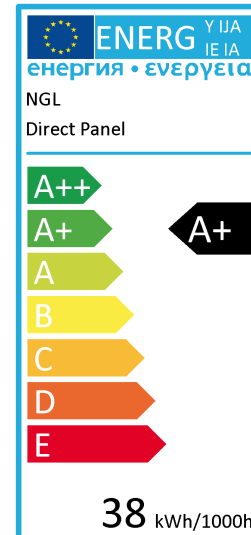
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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



## 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.

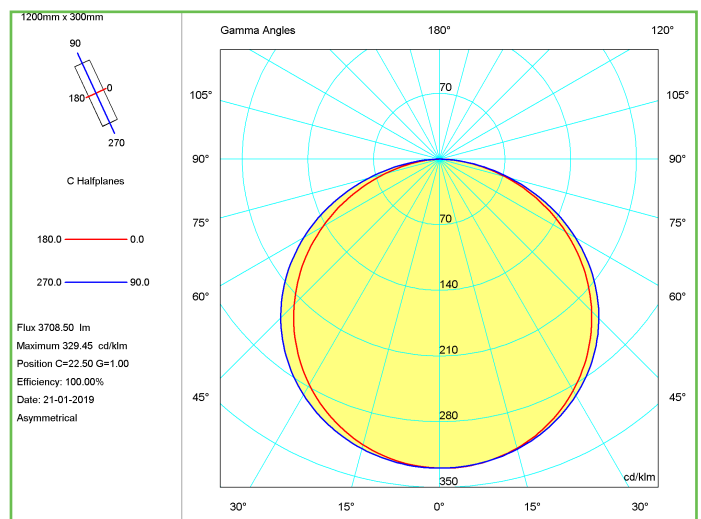


## BEAM

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.



# Direct Panel

REFERENCE	WATT	BEAM ANGLE	COLOR	WARRANTY	DIMMABLE
185-0800 (60X60)	40 W	120°	4000 K	6 y	YES
185-0805 (120X30)	40 W	120°	4000 K	6 y	YES
185-0810 (120X60)	60 W	120°	4000 K	6 y	YES
185-0811	SUSPENSION KIT 1.5M CABLE				

## WIRING

