



next generation led

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TL T5 (external driver) by ISOLLUX



Properties

- Lifespan L80B10: 50.000 hours
- External driver (selv type)
- Fully Dimmable
- Flicker free to reduce the eyestrain
- Environmentally friendly
- IP class: 33
- High resistance to corrosive gasses
- Instant switch-on
- Warranty: 5 years

130lm/w

Dimmable

External
Driver

Specifications

LED T5	60	90	120	150
Length	549mm	849mm	1149mm	1449 mm
Power	10 W	15W	20W	24W
Luminous flux	1300lm	1950lm	2600lm	3120lm
Diameter		16 mm		
Color temperature		3000K (4000K - 5000K - 6000K optional)		
Color rendering index		>90 CRI		
Temperature in use		- 40°C ~ +45°C		

Application

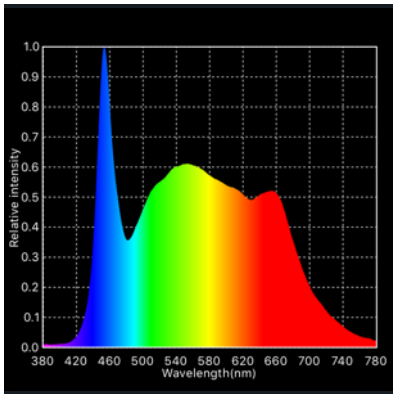
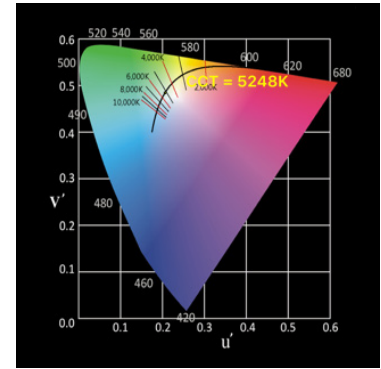
Offices, hospitals, hotels, supermarkets,
library, corridors,...

Updated: March 2021



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.

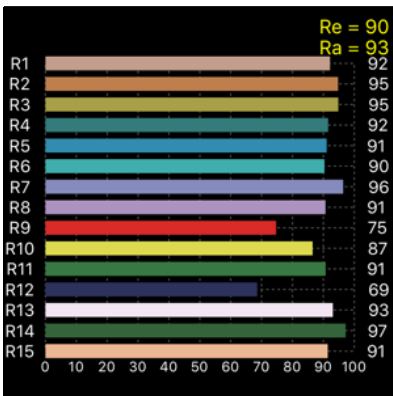
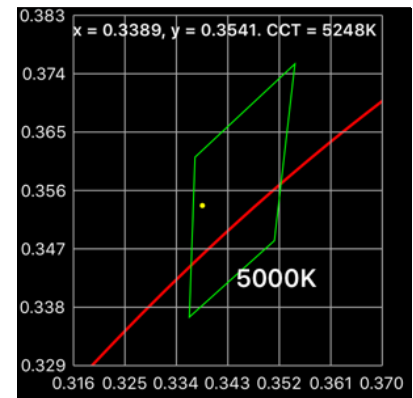


SPECTRUM

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

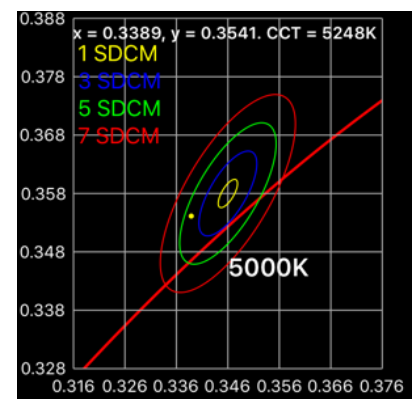
Re = average of R1 to R15

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

SDCM

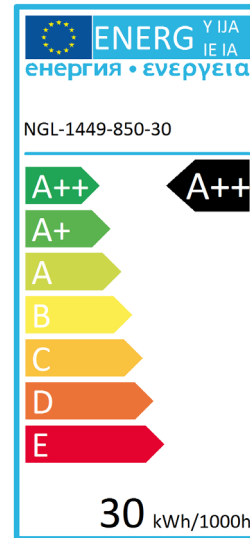
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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

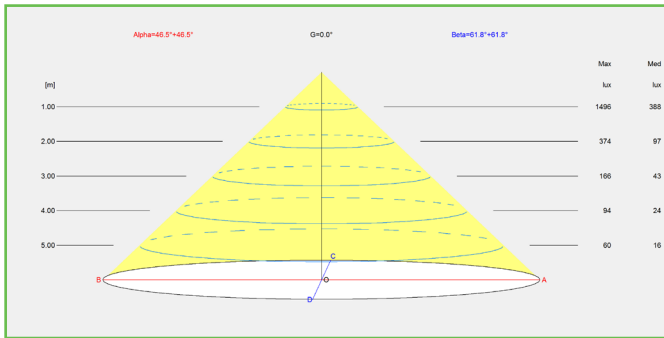


ENERGY LABEL

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.



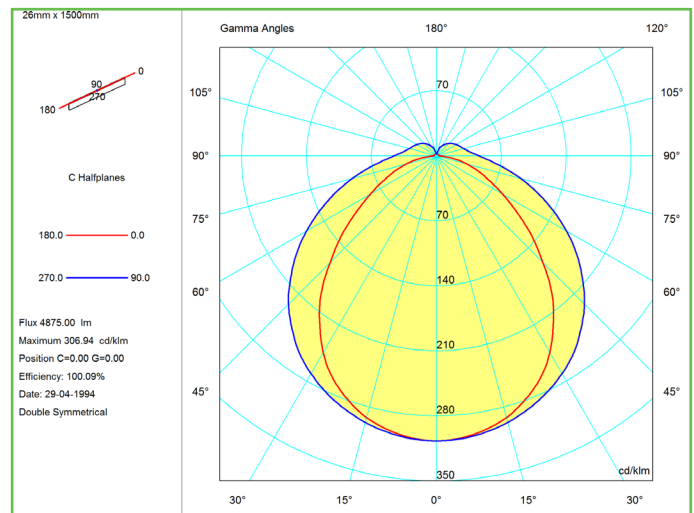
BEAM



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.



TL T5 (external driver required)

REFERENCE	LENGTH	WATT	COLOR	DIMMABLE
220-0200	549 mm	10 W	3000K	Yes
220-0201	549 mm	10 W	4000K	Yes
220-0202	549 mm	10 W	5000K	Yes
220-0203	549 mm	10 W	6000K	Yes
220-0204	849 mm	15 W	3000K	Yes
220-0205	849 mm	15 W	4000K	Yes
220-0206	849 mm	15 W	5000K	Yes
220-0207	849 mm	15 W	6000K	Yes
220-0208	1149mm	20 W	3000K	Yes
220-0209	1149mm	20 W	4000K	Yes
220-0210	1149mm	20 W	5000K	Yes
220-0211	1149mm	20 W	6000K	Yes
220-0212	1449mm	24 W	3000K	Yes
220-0213	1449mm	24 W	4000K	Yes
220-0214	1449mm	24 W	5000K	Yes
220-0215	1449mm	24 W	6000K	Yes