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next generation led

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TL ECO 26

Properties

- Lifespan L70 %: > 30.000 hours
- SMD2835 (Surface Mounted Device)
- Energy savings up to 70%
- 150lm/W @ CRI80, 135lm/W @ CRI90
- Aluminum cooling surface
- Built in driver
- Flicker free to reduce the eyestrain
- Will not break when dropped
- Environment friendly : no mercury or toxic gasses
- 80% more efficiency compared to traditional fluorescent
- Immediate start regardless of temperature or humidity
- Retro-fit = easy installation
- Warranty: 3 years

Application

Office, hospital, hotel, supermarket, library, parking, corridors ...

Retro-fit | 70% Saving | 30.000 h

Specifications

TL ECO 26	60cm	90cm	120cm	150cm
Power	10W	15W	20W	24W
Input voltage	AC 85~165/ 165 ~265 V			
Diameter	26 mm			
Color temperature	3000 K (ww) / 4000 K (nw) / 5000 K (pw)			
Cover	Available in clear, striped or frosted cover			
Color rendering index	Standard CRI>80, Optional CRI>90			
Powerfactor	>0.8			
Luminous intensity				
Warm White	1350	2100	2850	3450
Neutral White	1400	2150	2900	3500
Pure White	1450	2200	2950	3550
Cold White	1500	2250	3000	3600

Updated: March 2021

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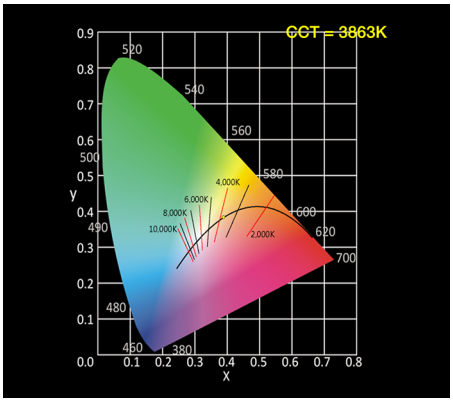
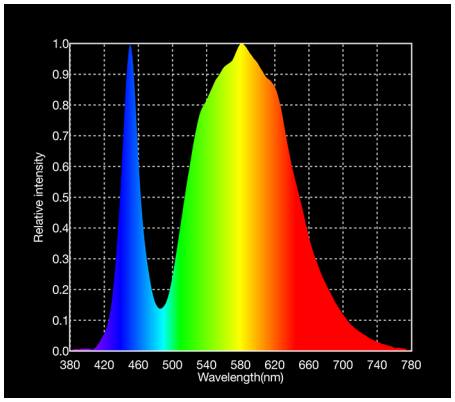
CIE 1931

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.



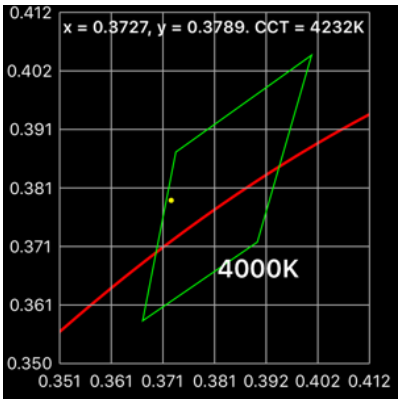


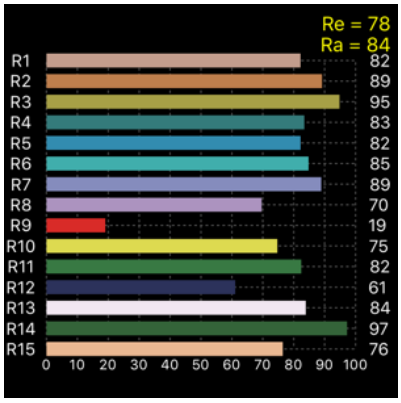
SPECTRUM

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.





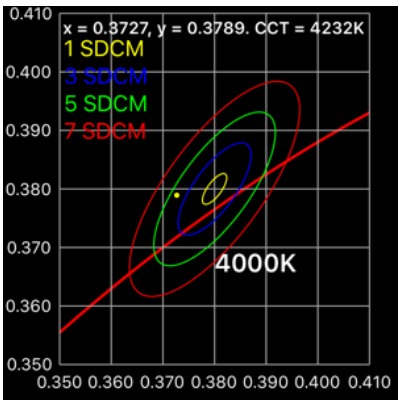
CRI HISTOGRAM

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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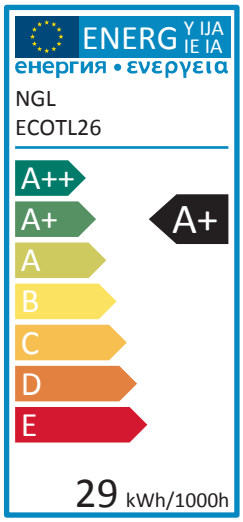
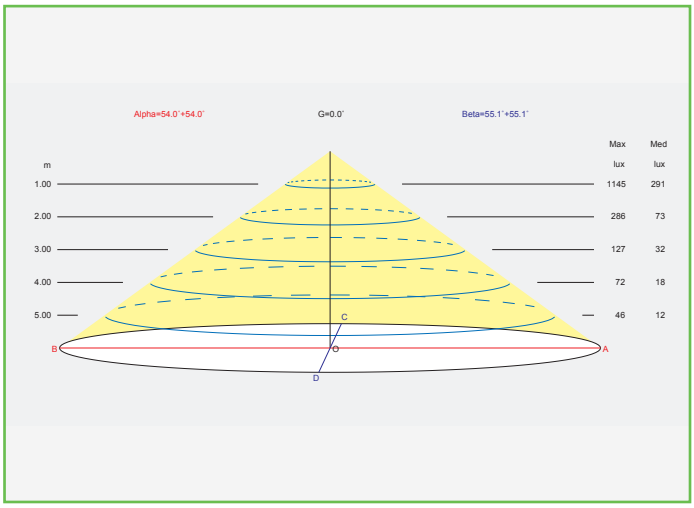
ENERGYLABEL

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.



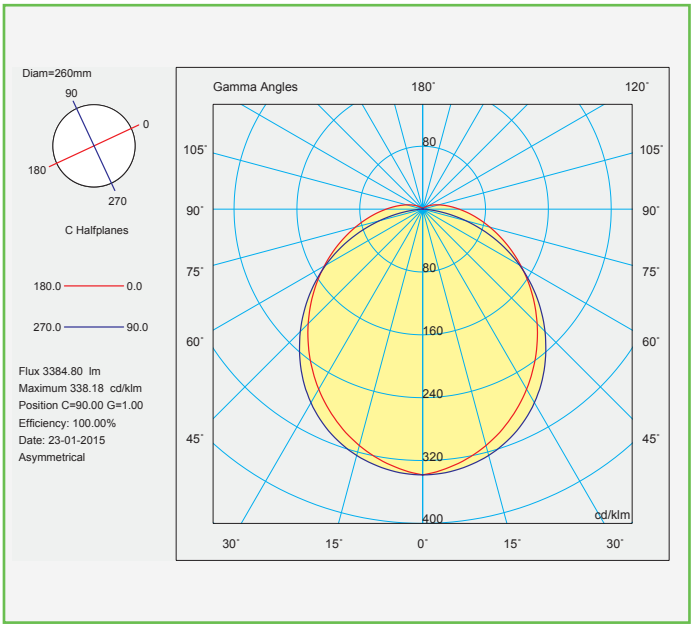


BEAM

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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REFERENCE	LENGTH	WATT	COVER	COLOR	CRI
250-0041	60 CM	10 W	FROSTED	3000 K	80
250-0042	60 CM	10 W	FROSTED	4000 K	80
250-0043	60 CM	10 W	FROSTED	5000 K	80
250-0045	90 CM	15 W	FROSTED	3000 K	80
250-0046	90 CM	15 W	FROSTED	4000 K	80
250-0047	90 CM	15 W	FROSTED	5000 K	80
250-0049	120 CM	20 W	FROSTED	3000 K	80
250-0050	120 CM	20 W	FROSTED	4000 K	80
250-0051	120 CM	20 W	FROSTED	5000 K	80
250-0057	150 CM	24 W	FROSTED	3000 K	80
250-0058	150 CM	24 W	FROSTED	4000 K	80
250-0059	150 CM	24 W	FROSTED	5000 K	80
250-0071	60 CM	10 W	FROSTED	3000 K	90
250-0072	60 CM	10 W	FROSTED	4000 K	90
250-0073	60 CM	10 W	FROSTED	5000 K	90
250-0075	90 CM	15 W	FROSTED	3000 K	90
250-0076	90 CM	15 W	FROSTED	4000 K	90
250-0077	90 CM	15 W	FROSTED	5000 K	90
250-0079	120 CM	20 W	FROSTED	3000 K	90
250-0080	120 CM	20 W	FROSTED	4000 K	90
250-0081	120 CM	20 W	FROSTED	5000 K	90
250-0087	150 CM	24 W	FROSTED	3000 K	90
250-0088	150 CM	24 W	FROSTED	4000 K	90
250-0089	150 CM	24 W	FROSTED	5000 K	90