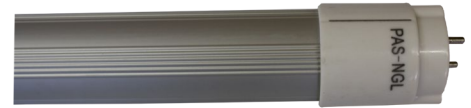




next generation led

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TL V-SHAPE



Properties

- Lifespan L70 %: > 50.000 hours
- SMD2835 (Surface Mounted Device)
- Energy savings up to 70%
- Aluminum cooling surface
- Build 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: 5 years

Retro-fit

240° beam angle

Specifications

TL V SHAPE	60 CM	90 CM	120 CM	150 CM
Power	10 W	15 W	20 W 24 W	24 W 30 W
Number of LED's	156	240	312 312	312 312
Input voltage	AC 85~165/ 165 ~265 V			
Diameter	30 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			
Luminous intensity	1200	1800	2400 2800	2800 2800

Application

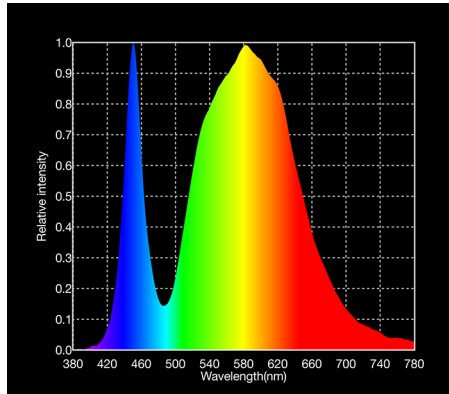
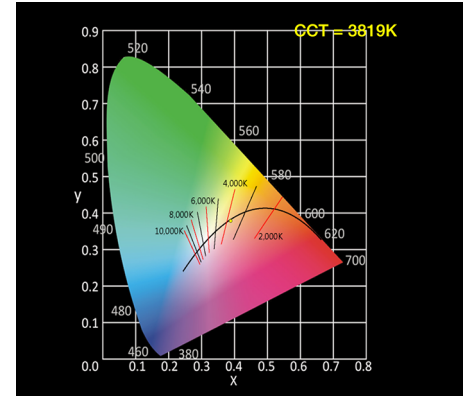
Double vertical fixture

Updated: August 2017



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.

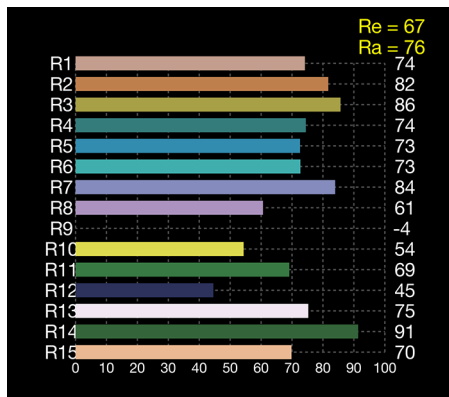
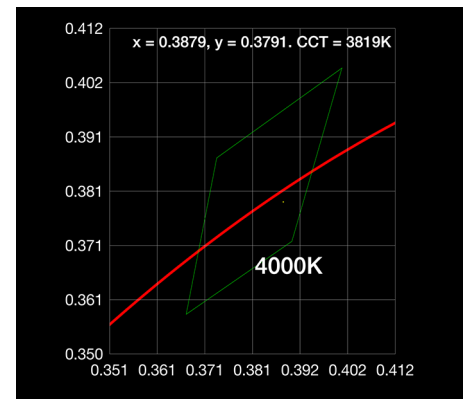


SPECTRUM

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

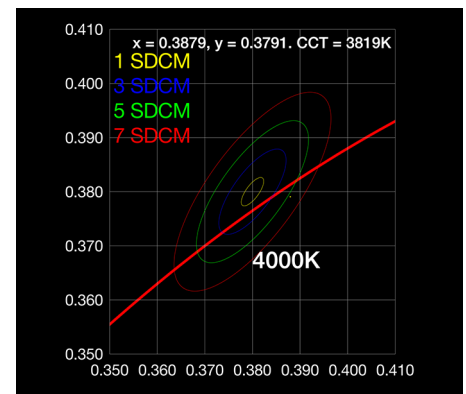
The color reproduction of a light source indicates whether the color of an object can be displayed true to nature. The graph shows whether we can accurately determine color, depending on the color rendering properties of the light source.

- 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	ΔU_V
1x	±30K	±0.0007
2x	±60K	±0.0010
4x	±100K	±0.0020
7-8x	±175K	±0.0060



TL V-SHAPE

REFERENCE	LENGTH	WATT	COVER	COLOR	DIMMABLE
280-0100	60 CM	10 W	STRIPED	3000 K	No
280-0101	60 CM	10 W	STRIPED	4000 K	No
280-0102	60 CM	10 W	STRIPED	5000 K	No
280-0103	90 CM	15 W	STRIPED	3000 K	No
280-0104	90 CM	15 W	STRIPED	4000 K	No
280-0105	90 CM	15 W	STRIPED	5000 K	No
280-0106	120 CM	20 W	STRIPED	3000 K	No
280-0107	120 CM	20 W	STRIPED	4000 K	No
280-0108	120 CM	20 W	STRIPED	5000 K	No
280-0109	120 CM	24 W	STRIPED	3000 K	No
280-0110	120 CM	24 W	STRIPED	4000 K	No
280-0111	120 CM	24 W	STRIPED	5000 K	No
280-0112	150 CM	24 W	STRIPED	3000 K	No
280-0113	150 CM	24 W	STRIPED	4000 K	No
280-0114	150 CM	24 W	STRIPED	5000 K	No
280-0115	150 CM	30 W	STRIPED	3000 K	No
280-0116	150 CM	30 W	STRIPED	4000 K	No
280-0117	150 CM	30 W	STRIPED	5000 K	No

