



next generation led

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## LED Bulb E14

### Properties

- Lifespan: 25.000 hours
- C series LED lamp with same size as conventional C series lamp
- Particularly efficient LED technology
- No transformer needed
- Aluminum socket
- Instant on and full brightness
- Dimmable
- Direct replacement for 40W incandescent light bulb
- Very powerfull LED's with CRI > 95
- 15.000 switching cycles
- No UV production, environment friendly
- Excellent uniformity
- Warranty: 3 years

IP 20

CRI 95

Dimmable

### Specifications

E14 BULB	
Input voltage	AC85 ~ 265V / 50/60Hz
Power	5w
Power factor	> 0.9
Luminous intensity	500lm
Color rendering index	>95
Color temperature	2700K (others colors temperature available on demand)
Dimmable	yes
Dimensions	35X97mm
Beam angle	360°

### Application

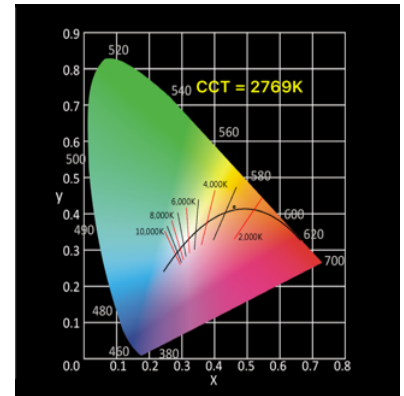
Everywhere where traditional C series lamps are used.

Updated: Nov 2021



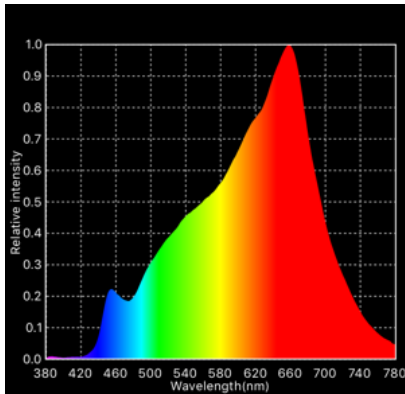
## CIE 1931

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.



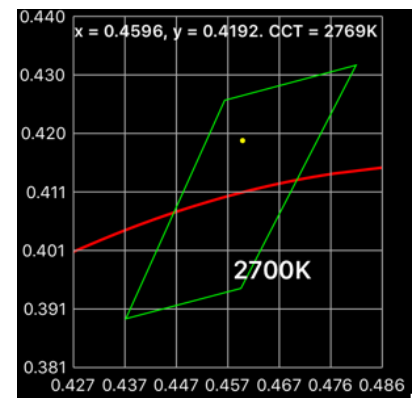
## SPECTRUM

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.



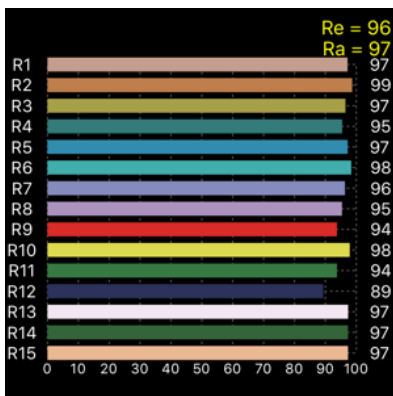
## CRI HISTOGRAM

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

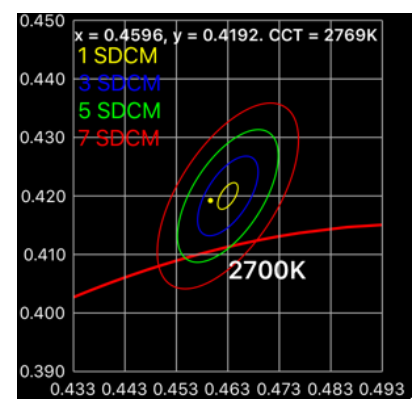
R9 = saturated red. Should be as high as possible.



## 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	$\Delta U V$
1x	$\pm 30K$	$\pm 0.0007$
2x	$\pm 60K$	$\pm 0.0010$
4x	$\pm 100K$	$\pm 0.0020$
7-8x	$\pm 175K$	$\pm 0.0060$



## E14 LED BULB CRI95

REFERENCE	WATT	COLOR	BEAM	DIMM
199-0004	4W	2700K	360°	YES