

Light Emitting Diodes (LED) are now the dominant source of artificial light at night. A broad range of lighting options using LED technology is available. Today, LED lighting is dominate at 99% of all the other lighting options combines.

Kelvin (K) is the measured unit for defining **Correlated Color Temperature (CCT)** of a light source. Light bulbs are found listing CCT 2700K or just 2700K.

Lumens define brightness of a light source. More lumen = brighter (replaces watts). A home light bulb rated at 60 watts emits 800 lumen of light.

Glare is a visual sensation caused by excessive and uncontrolled light brightness in your field of view. Shielding light fixtures helps reduce glare and improves safety.

High Pressure Sodium (HPS) fixtures were used for Phoenix streetlights from the 1970's to about 2020. HPS were rated at 2200 Kelvin often labeled as *warm-yellow* and had NO significant blue in the visual spectrum.

> Incandescent bulbs were rated at about 2600 Kelvin. Various bulbs were brighter via more watts. But all incandescent bulbs were about 2600K .

LED can vary in CCT from 1700K to over 7000 Kelvin.

Craig Weaver
sunnyphx.org