



# Understanding Kelvin Colour Temperature in Lighting

## What is Kelvin Colour Temperature?

Kelvin (K) is a unit of measurement used to describe the colour temperature of a light source. Unlike brightness (measured in lumens), colour temperature describes the appearance of the light emitted—whether it feels warm, neutral, or cool. The Kelvin scale runs from about 1,000K to 10,000K.

## The Kelvin Scale Breakdown

Color Temperature	Appearance	Common Light Sources	Typical Use Case
1,000–2,000K	Deep Warm / Orange	Candlelight	Mood lighting, restaurants
2,700K	Warm White	Incandescent bulbs	Living rooms, bedrooms
3,000K	Soft White	Halogen bulbs	Bathrooms, kitchens
4,000K	Neutral White	Cool white LEDs, CFLs	Offices, retail spaces
5,000–5,500K	Daylight	Direct sunlight, daylight LEDs	Studios, photography, task lighting
6,000–6,500K	Cool Daylight	Overcast sky, bluish LEDs	Display areas, industrial lighting
7,000K+	Blue Hue / Cold Light	Specialty LED or screens	Specific design or industrial use

