



# 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   |

