



How the Color of Light Impacts Workers

Human-Centric Lighting From Tri Lite

Color Temperature

Basics

Color temperature is more important than you may realize as it directly impacts visibility. For warehouses, it is recommended that color temperatures between 4000K and 5000K are used. Studies have proven that this range, which scales between bright white and a blueish tint, reduces eyestrain and maintains an ideal and productive workspace.

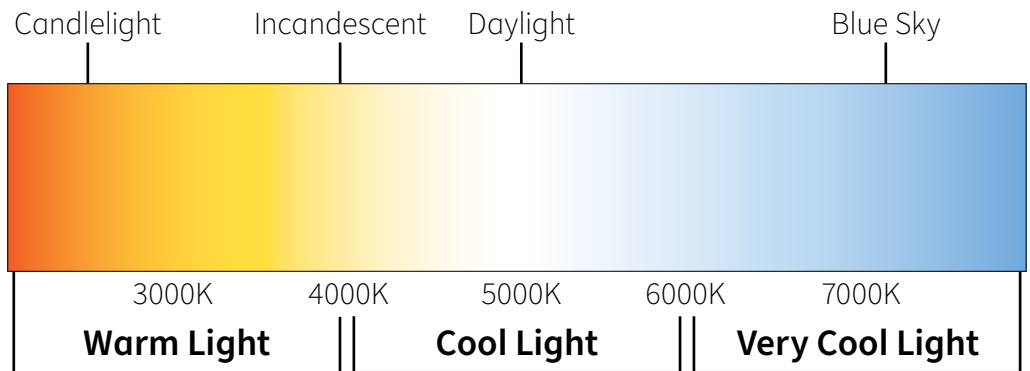
What's a kelvin?

Color temperature is actually a temperature that is measured by heating a piece of tungsten. As it starts to glow, the temperature is measured in degrees kelvin. The metal starts to glow around 600 degrees kelvin and will become more 'white' the hotter it gets. Red hot is about 600K and white hot starts at 4000K. LED color temperature is a comparison to the kelvin chart and this is why warmer color temperatures start at lower 'K' numbers.

Effects

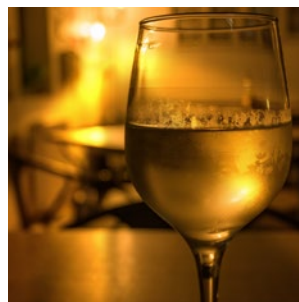
As we become more relaxed the tasks that require a higher level of concentration like operating machinery or doing multiple repetitions of the same task are more prone to error and lack of enthusiasm.

Color Temperature Scale



2700K

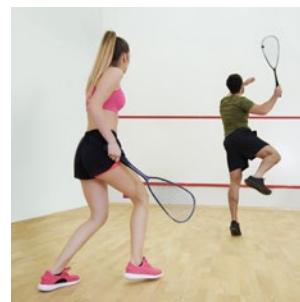
At this color temperature our bodies are triggered to reduce cognitive performance.



People who are not alert are more likely to make mistakes or injure themselves.

5000K

At this color temperature our bodies and minds are the most active.



All of **Tri Lite**'s loading dock lighting is set to 5000K to provide the optimum environment for safety, happiness and productivity.

7000K

This color temperature is too high and can lead to headaches and eyestrain.



Studies have shown that color temperatures above 6000K increase eye strain.

