



## **LED LUMEN LOSS AS A RESULT OF HEAT**

LED (Light Emitting Diode) lumen loss is the reduction in light output from an LED light source over time due to various factors, including heat

When an LED operates at higher temperatures, its internal components can degrade, leading to a decrease in light output and a corresponding decrease in luminous efficacy. Additionally, high temperatures can also affect the longevity of the LED and its ability to produce consistent light output over time.

To mitigate the impact of heat on LED lumen output, it is important to properly design and maintain the thermal management system, which helps dissipate heat away from the LED. This may involve the use of heat sinks, fans, or other cooling systems, as well as proper placement of the LED within a fixture or lamp to ensure proper air flow and ventilation. Proper thermal management can help extend the life of an LED and reduce the amount of lumen depreciation over time.

