NORDLAND LIGHTING®

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LED LUMEN DEPRECIATION

LED lumen depreciation refers to the reduction in light output from an LED light source over time. This can be caused by various factors, including heat, current fluctuation, and component degradation. As the LED ages, its components can degrade, leading to a decrease in light output and a corresponding decrease in luminous efficacy. This reduction in light output is referred to as lumen depreciation.

The rate of LED lumen depreciation varies depending on the quality of the LED components, the operating conditions (e.g. temperature, current), and the specific application. Generally, high-quality LED lights have a slower rate of lumen depreciation than lower-quality options. To minimize the impact of lumen depreciation, it is important to choose high-quality LED lights and to properly design and maintain the thermal management system, which helps dissipate heat away from the LED. Proper maintenance, such as regular cleaning and avoiding over-driving the LED, can also help extend the life of an LED and reduce the amount of lumen depreciation over time.