

LEDs & Lighting Controls

Lighting controls and dimming strategies are integral to advanced lighting design. Dimming can be a key strategy to improve energy efficiency, but often at a cost of reduced efficacy if using conventional light sources. Light emitting diodes (LEDs) are the exception, where efficacy actually improves as this light source is dimmed. LEDs demonstrate improved performance, such as higher efficacy and greater life expectancy as controls are introduced. This ALG Connections piece highlights an excellent [article from the Electrical Construction & Maintenance Magazine](#) discussing the potential of LEDs and lighting controls.

The nature of LED lighting is very friendly to automatic lighting control. LED luminaires are instant-ON devices, making them usable with automatic switching controls, and frequent switching does not affect lamp life as it does with discharge sources. Dimming from 100-1% (or 100-20%, depending on desired capabilities and cost) is compatible with line- or low-voltage methods, and is achieved through use of a dimmable driver, which dims the diode

using either pulse-width modulation (PWM) or pulse-amplitude modulation (PAM) methods. Dimming may extend service life because it reduces internal temperatures. Efficacy is stable across the dimming range until the low end, when efficacy actually increases due to dimming reducing internal temperatures, producing higher light output.

LEDs can interface directly to onboard luminaire control logic. The result is an "intelligent" luminaire that has the ability to monitor and respond to its environment and perform pre-programmed tasks to further conserve input power and reduce luminaire maintenance. The LED luminaire is digitally addressable, allowing it to easily network and communicate with other luminaires and similar control devices in the same room or throughout a building.

The figure below illustrates a sample efficacy relationship of a dimmed LED luminaire. Keep in mind that every product will have a different characteristic depending on thermal design and LED packages employed.

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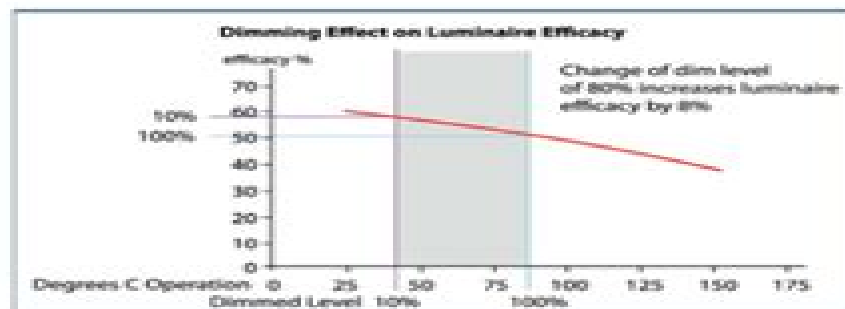
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