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Growing Demand of LED Lights by Ariel Linford

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LED Light Profiles; LEDs (an abbreviation for light emitting diodes) are solid state semiconductor devices. LEDs create light when their semiconductor crystal is stimulated. This technology has been around since the 1960s and was first used in traffic lights and alarm clocks. LEDs are much smaller in size than traditional light bulbs and fit easily into electrical circuits. Recent technological advancements have lead to LEDs being desirable for home, office and commercial lighting spaces. Their extensive benefits include long life, superior energy efficiency, generate very little heat, have low maintenance, low environmental impact, instant light, easily dimmable, silent operation & low voltage power.

Lighting plays an important part in how we experience our world. It impacts how we think, how we feel and how we occupy the spaces we live in. Along with time, it is commonly referred to as the 4th dimension of architecture. Lighting techniques shape our moods and affect the ambience of a space. We can feel alert or calm depending on whether a cool or warm light is present. Similarly, we can add drama to a space through direct light or soften a space through indirect light. Employing accent lighting will emphasize the depth of a space and installing orientation lighting will encourage specific passages and influence the flow of movement through a space.

Brightness however, is the most important aspect of lighting design. A bright light will set a positive mood and allow tasks to be performed with ease. Australia has established a set of standards that enforce minimum brightness levels for a range of settings. Below we have recommended types of down lights and their spacing requirements to meet the standards and bring exceptional lighting to your space. Several policies, programs and standards have been implemented in Australia to increase the adoption of energy efficient products, such as LED lighting.

LED Light Bulbs are the recent addition in the lineup of energy saving devices and appliances. An LED lamp (or LED light bulb) is a solid-state lamp that uses light-emitting diodes (LEDs) as the source of light. LED lamps offer long service life and high energy efficiency, but initial costs are higher than those of fluorescent and incandescent lamps. Chemical decomposition of LED chips reduces luminous flux over life cycle as with conventional lamps.

The LEDs involved may be conventional semiconductor light-emitting diodes, organic LEDs (OLED), or polymer light-emitting diodes (PLED) devices. However, PLED technologies are not commercially available. Diode technology improves steadily. Efficiency of LED devices continues to improve, with some chips able to emit more than 100 lumens per watt. LEDs do not emit light in all directions, and their directional characteristics affect the design of lamps. The efficiency of conversion from electric power to light is generally higher than with incandescent lamps. Since the light output of many types of light-emitting diodes is small compared to incandescent and compact fluorescent lamps, in most applications multiple diodes are assembled.

LED DMX controllers In short, it's a system of controlling "intelligent" lighting fixtures and dimmers. Technically, DMX is an abbreviation for DMX512-A, the ESTA (Entertainment Services Technology Association) Standard for controlling lighting equipment and related accessories. A wide variety of lighting control consoles, controllers and other devices that output DMX signals can be used to connect to an even greater variety of lighting fixtures and accessories that can be controlled by DMX. DMX controlled lighting systems are used in many professional settings, including concert lighting, stage lighting, studio lighting, theme park attractions, and much more.

In recent years, the DMX standard is being used more frequently in Architectural lighting projects,

including illumination of building exteriors, accent lighting, general purpose building management and high-end residential lighting. This is due primarily to the high popularity of LED based lighting fixtures, which are frequently controlled via DMX signals.

Interactive Technologies produces DMX based devices for controlling and/or working with all kinds of DMX lighting fixtures. Our Cue Server product family is a general purpose lighting controller that combines the power of a professional DMX lighting console with the tools necessary to build smart, self-contained lighting show playback systems. Our Scene Station product family is an easy-to-use and very capable wall-mounted button station that directly controls DMX lighting. The Micro-Tech DMX family of products has become an industry standard for troubleshooting all kinds of DMX network problems.

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