

Why use LEDs for Landscape Lighting?

- **Lower Temperatures** – Conventional light bulbs waste 80%-90% of their energy.
- **Size LEDs** – Typically these are very small allowing smaller fixtures to get the same output of light as an incandescent.
- **Efficiency** – Compared to traditional lighting with incandescent bulbs (only 20% of their energy produces light, the remaining is outputted as thermal energy or heat), LEDs can reach almost 80%-90% efficiency. Since LEDs give off light in one direction, they don't waste light by sending it to areas that aren't needed.
- **Low Voltage LEDs** – Illumination doesn't require much in terms of voltage. This allows more fixtures on a smaller wattage transformer.
- **Longer Life** – The life of an LED is estimated to be from 25,000 to 50,000 hours (around 10-15 years in a landscape lighting application). The life of an LED is defined as the average number of hours it can run until its light falls to 70 percent of initial brightness, in lumens. LEDs will typically fade gradually instead of a complete loss of light.
- **Durable LEDs** – There are no filaments so they can withstand heavy vibrations. They are also resistant to shock and extreme impacts which make it great for outdoor lighting.
- **Zoning, Dimming, and Color** – New technology allows the LED bulb within certain fixtures to change color, dim and zoning with your smart phone.
- **Less Intense Activity** – Unlike LED lights, halogen bulbs emit UV light which attracts insects. By switching to LED lights, you can potentially decrease insect activity in recreational areas like your backyard.

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