## LED Benefits

**LED is heralded as the future of lighting and will replace the incandescent light. The U.S. Department of Energy is working with the lighting industry to reduce the electricity used for lighting by 50% by converting to LED light sources.**

- **LEDs are capable of emitting HI CRI whites or colors of any wavelength at the source.**
- **LEDs are durable solid-state technology.**
- **LEDs have an extremely long life span when compared to other light sources – in many cases they last twenty times longer.**
- **LEDs consume less energy than incandescent and other existing light sources.**

## LED Advantage

**While LED lighting in general is far superior to incandescent, enLux has advanced LED Solid State Lighting to an entirely new level. enLux invented the world's first drop-in replacement R30 LED/SSL floodlight for high quality general illumination. enLux is the first lighting company to use Chip-on-Board (COB) technology in a commercial RAGB LED light engine which mixes red, amber, green and blue LED to create superior white and pure saturated color light, coupled with proprietary patented thermal management creating a bright LED light that is cool to the touch.**

## Solid-State Lighting: RAGB - Superior Illumination

**Solid-state lighting technology is now emerging as a cost-competitive, energy-efficient alternative to conventional electrical lighting. The LED solid-state lighting technologies typically generates white light from blue phosphor whiteous LEDs (considered as replacement for incandescent and fluorescent lights). The enLux RAGB multi-chip LED lamps, offer many advantages over the blue phosphor LED lamps such as chromaticity control, better light uality, excellent color rendering, visual performance and higher efficiency.**

**enLux RAGB (RGB+Amber) produces high output balanced white light and affords the flexibility of providing specific color temperature with high color uniformity and visual performance (high CRI).**

**enLux's LED light engine is based solely (from chip to finish luminaries) on its patented, proprietary RAGB and RGB chip-on-board technology, which differs greatly from the typical industry application of blue phosphorus LED technology. Blue phosphorus is not new technology; in fact, it is similar to fluorescent electric light, which uses UV rays energized with phosphorus to make visible light. The wavelengths necessary to create white fluorescent light are very chaotic, and while generally accepted, fluorescent is not considered to be a preferred light source. While more efficient than fluorescent, commonly used blue phosphorus LED typically use blue light emitting diodes (LEDs) combined with energized yellow phosphorus, to produce a white light.**

**Similar to HD television and digital photograhpy technology, enLux RAGB technology mixes red, amber, green and blue LEDs to create superior white and pure saturated color light.**

**enLux with its RAGB core SSL technology considers its performance the hybrid of LED lighting.**