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## FAQs

### Frequently asked questions about SloanLED products and technology

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#### **What colors are available?**

Red, Orange, Yellow, Green, Blue and White. Since LED's provide monochromatic light, by optimizing the color behind the lens a designer can enhance the look of the design.

#### **Are all colors the same price?**

Because Red, Yellow and Orange LED's have been available for a much longer time period, their cost is less than that of Green, Blue and White.

#### **Are LED's as bright as fluorescent and neon?**

Yes, by working with SloanLED to design your lighting system, we can optimize the number of LED's used and the lens design to achieve brightness comparable to neon or fluorescent.

#### **Should I be concerned about weather damage?**

SloanLED has developed proprietary technology to protect the LED system from normal environmental conditions. LEDs offer excellent performance at extremely low temperatures, thus eliminating the cold start problem associated with fluorescent and neon systems.

#### **How long do LED's last?**

Red, Amber, Orange LEDs have a typical life of up to 100,000 hours (or 11 years of constant usage). Blue, Green and White LEDs have life in the range of 30,000 to 50,000 hours, depending on application and environment. Based on installation and number of hours per day the LED system is illuminated, your life could vary.

#### **How does the cost of using LED's compare to fluorescent and neon?**

Through optimizing the LED system for your application, costs can be competitive with existing technology. Considerable savings can be achieved over time from significantly reduced energy and maintenance costs.

#### **What does the SloanLED lighting system include?**

A typical SloanLED sign lighting system includes the LED system, a power supply, mounting or use instructions and any special hardware required. For industrial products, your order would include the product ordered and any special use instructions.

#### **Can SloanLED help design a lighting system?**

SloanLED has the expertise in lens optimization, mounting, circuit board design, power optimization and environmental protection. SloanLED has been designing and using LED's for over 50 years.

#### **How are SloanLED systems powered?**

SloanLED sign lighting systems operate at low voltage (12 to 24 volts). The power supply takes standard line voltage and converts it to the low voltage required for the LED system. The benefit of this approach is that low voltage reduces safety and fire hazards.

#### **Can LEDs be retrofitted into existing lighting systems?**

Yes, in many cases SloanLED's systems can fit right into your existing application.

#### **Is installation difficult?**

SloanLED's products are designed for easy installation. Our systems either mount without any tools required or with standard hand tools found in most tool boxes.