



## Optical Consulting

 **LED Lighting** **Display Systems** **Optical Modeling** **Optical Prototypes** **Testing Systems** **Expert Witness and Consulting**

### LED Lighting & LED Signage

LED-based lighting is one category of solid-state lighting and a fast growing market, with hundreds of lighting companies recognizing the need to have LED-based development programs. Though LEDs have many benefits, one drawback is that they typically require new or custom optical solutions to realize their full potential. Phostech can provide solutions for:



- Specific illuminance profile and color uniformity (direct the light only where it should go)
- Luminance and color uniformity of the light emitting area (no hot spots)
- Optimized optical film or lens choices and product integration
- Optimized optical polymer for environmental concerns
- Reduced glare output
- High optical efficiency lenses, reflective components, housing, etc.
- Single or multi-LED collimating lens solutions
- Direct-lit or edge-lit solutions
- [Testing system solutions](#)

Phostech has more than 15 years of experience in LED illumination systems and can direct companies to off-the-shelf or custom solutions that integrate the unique optical properties of LEDs into their light fixture or LED signage designs.

