



## LIGHTING PRODUCT SERVICES

Today's consumers expect quality, performance and energy efficiency from an ever-changing selection of lighting products. Manufacturers and retailers are challenged to meet those expectations quickly, efficiently and cost-effectively.

That's where OnSpeX can help. We are your expert source for **photometric performance evaluation**.

We can help you drive innovative designs that meet safety and performance criteria... help you win business... and help reduce costly returns.

OnSpeX presents a full range of services to evaluate the design and performance of your lighting products.



### Expert testing resources you can count on

- In-house Photometric Lab, fully staffed with qualified experts who can help you obtain IES file generation for lighting products and retro reflective materials
- Approved under US Department of Energy CALiPER program
- State of the art Goniophotometer ~ testing LEDs to LM 79
- Imaging Colorimeter (CCD) camera ~ instantly isolates and images LED performance, while measuring total output. Allows for instant analysis of field and beam luminaire throw patterns, showing any deficiencies in uniformity patterns.
- Thermal Imaging Camera to show efficiency of luminaire thermal characteristics, as well as LED heatsink efficiencies.
- Approved for Energy Star testing
- Specialists in testing to IES, SAE and CIE standards, as well as in CSA, IESNA, NVLAP and NIST standards, FAA, TC, AMECA, ANSI/UL, DOE, Energy Star and other programs
- Performance testing to ANSI/UL, CSA, IESNA, NVLAP AND NIST standards

## Just some of the lighting products we cover....

### Household and Facilities

- General Lighting Fixtures
- Tube lights
- CFL bulbs
- Solid State Lighting
- Computer Monitors
- Flatscreen TVs

### Vehicles

- Trailer Lighting
- Dash Board Lighting
- Head, Tail & License Plate
- Directional Lighting (Turn Signals)
- Marine Lights

### Accessories

- Landscape Lighting
- Offroad vehicles
- Emergency Exit Signals
- Energy Star Testing for Power Supplies
- Ballast Testing

## OnSpeX Product Evaluation Capabilities

- Total Radiant Flux
- Total Luminous Flux (Lumens)
- Correlated Color Temperature (CCT)
- Color Rendering Index (CRI)
- Environmental Testing
- Power Consumption & Power Factor
- Angular Distribution
- Chromaticity Coordinates
- LED Forward Current and Voltage
- Thermal Analysis of LEDs

**OnSpeX** offers leading-edge product performance testing and evaluation services for the consumer product retail market. Our expertise in product design consulting, product specifications, product comparison testing, inspections and audits is delivered globally from offices across North America, Europe and Asia.

## Why choose OnSpeX?

### For our leading technical expertise

OnSpeX product specialists are some of the most highly trained and experienced anywhere. We can consult with you on product design and help you avoid costly rework.

### For our global service

No matter where you manufacture – or what markets you wish to reach – we can help you get there. OnSpeX has a global network of qualified experts with offices across North America, Europe and Asia.

### For fast, reliable service

We understand time-to-market pressures in competitive markets. At OnSpeX, we draw on ingenuity and technical expertise to meet your needs, and we're committed to seeing your job through to completion – quickly, efficiently and cost effectively.

Contact us to discuss your product evaluation needs.

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## Global product performance evaluation services

Product Design Consulting ▪ Product Specifications ▪ Product Testing ▪ Inspection & Audit Services ▪ Data Analytics

Headquartered in Cleveland, Ohio, OnSpeX is a division of CSA Group.