# SSL FACTS:

## Fast, Accurate, Customized Testing Solutions

The light-emitting diode (LED), one of the most promising solid-state lighting (SSL) technologies, has several unique properties that make it an ideal potential source for many lighting applications, reducing lighting energy use by up to 80 percent over conventional technologies.

However, unlike conventional lighting technologies, there is little verification of LED product claims. As a result, depending on the application, there are major variations between manufacturer claims and actual product performance.

Lighting decision makers need a program that will rapidly test new LED lighting products and report their performance in a knowledgeable and unbiased manner.

NLPIP
NATIONAL LIGHTING PRODUCT INFORMATION PROGRAM

## SSL FACTS

The National Lighting Product Information Program (NLPIP) recently unveiled SSL FACTS, a new initiative to rapidly measure, update, and disseminate system performance information of emerging SSL products.

The initiative is designed to have LRC experts verify SSL product performance and debunk exaggerated claims while taking full advantage of NLPIP's proven publication and reporting process to help transform the market.

NLPIP sponsors have agreed to dedicate 50-100 percent of the annual NLPIP budget to this initiative. Funds from SSL FACTS will be pooled for SSL product testing. This allows program participants, for a modest investment, to leverage up to $800,000 in SSL testing annually. A *Quick Peeks* option provides on-demand evaluations of SSL products within two weeks of product procurement, as well as customized interpretation of the test results for sponsors.

NLPIP will use industry standards to evaluate SSL systems and use **ASSIST** *recommends'* test methods for application-specific performance. **ASSIST**, an international resource for recommendations and guidelines on LED lighting performance, metrics and testing procedures, will continue to provide research and industry review activities to develop new metrics and test protocols to better predict how SSL products will perform in the field.

## Testing facilities and resources

Testing will be done through NLPIP, located at and administered by the LRC, in the lighting research laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP, lab code 200480-0) to test lamp and lighting equipment. Manufacturers are not allowed to participate or provide funding.

For more information about SSL FACTS and details about sponsorship options, visit

www.lrc.rpi.edu/programs/nlpip/pdf/SSL_FACTS.pdf

## Sponsors

**NLPIP:** California Energy Commission/Public Interest Energy Research (PIER), Iowa Energy Center, New York State Energy Research and Development Authority (NYSERDA), United States Environmental Protection Agency (U.S. EPA)

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**National Lighting Product Information Program (NLPIP)**
www.lrc.rpi.edu/programs/NLPIP/

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