

Solid State Lighting

Quality Advocates

Take the Voluntary SSL Quality Pledge

The rapid growth of solid state lighting (SSL) has brought many new lighting products to the market. Most are excellent introductions and showcase the energy-savings potential for SSL. But some, unfortunately, misrepresent their performance.

Poor or misrepresented products can discourage the efforts of early adopters of the new technology, significantly delay market penetration, and may disadvantage the entire industry.

As a foundation of product quality, the DOE urges manufacturers to voluntarily report a consistent set of performance metrics in a clear and simple format. For luminaires, the metrics include lumen output, luminaire efficacy, power input, color temperature, and color rendering index.

Lighting accounts for about 25% of energy consumption in commercial buildings and 12% of residential energy consumption. SSL can potentially save half of lighting energy, making it an attractive near-term opportunity.

Benefits of the voluntary reporting program include:

- Acceleration of market development
- Enhancement of customer satisfaction
- Differentiation of quality and performance leaders in a new lighting technology.

The SSL Quality Pledge is a voluntary agreement by LED luminaire and source manufacturers and others in the lighting value chain to support the performance reporting initiative. Taking the pledge establishes a manufacturer as an industry leader in support of high quality products for next generation lighting. Others — including but not limited to buyers, contractors, lighting designers, distributors, retailers, utilities, and efficiency organizations — may also become an SSL Quality Advocate by pledging to support the initiative.

Achievements of SSL Quality Advocates will be recognized and publicized. Other agencies, states, utilities, universities, and trade associations are publicly recognizing corporate efforts in reducing energy use.

The pledge form on the reverse side of this document is specifically for manufacturers of luminaires or replacement lamps. Pledges for LED device manufacturers and others will be available soon on the DOE SSL website, www.netl.doe.gov/ssl.

What Is the SSL Quality Pledge?

The **SSL Quality Pledge** is a joint effort of the Department of Energy (DOE) and the Next Generation Lighting Industry Alliance (NGLIA) to assure and improve the quality of solid state lighting products.

Lighting Facts™

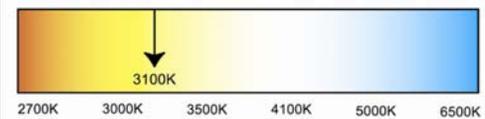
Solid State Lighting Luminaire

Lumens	840 lm
Lumens per Watt	93 lpw

Watts at 120VAC	9 W
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Color

Correlated Color Temperature (CCT)	3100 K
Color Rendering Index (CRI, R _a)	87



Efficacy and lumen output are reported according to IESNA LM-79-2008



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable

SSL Quality Pledge

Voluntary Pledge for Luminaire Manufacturers

_____ voluntarily agrees to become an **SSL Quality Advocate**.
(Company Name)

We pledge to support improved quality of LED solid state lighting products.

- As a **luminaire manufacturer**, we agree to provide clear and consistent reporting of essential performance, measured with agreed SSL standard methods, in the following categories:
 - Lumen output
 - Luminaire efficacy
 - Power input
 - Correlated color temperature
 - Color rendering index.
- Critical information will be readily available on product packaging or literature.
- We will provide feedback on product performance parameters and statistical sales information for monitoring purposes. (Results will be aggregated to protect proprietary information.)

The Department of Energy will:

- Continue to drive technology development through the SSL R&D program, including support for work related to product quality and reliability
- Continue a variety of initiatives designed to support market introduction, including testing and demonstration programs, information and education through the SSL website, and other vehicles
- Monitor the accuracy of reported performance, on a sampling basis, through its CALiPER testing program
- Publicize accomplishments and results of the SSL Quality Advocates.

The Department of Energy enters into this Agreement under the authority of the section of 106 of the Energy Policy Act of 2005 (Pub. L. No. 109-58, 42 U.S.C. § 15811). This Agreement in no way restricts any of the Parties from participating in any activity with other public or private agencies, organizations, or individuals. This Agreement is neither a fiscal nor a funds obligation document. Nothing in this Agreement authorizes or is intended to obligate the Parties to expend, exchange, or reimburse funds, services, or supplies, or transfer or receive anything of value. This Agreement is strictly for internal management purposes of each of the Parties. It is not legally enforceable and shall not be construed to create any legal obligation on the part of either Party. This Agreement shall not be construed to provide a private right or cause of action for or by any person or entity. All agreements herein are subject to, and will be carried out in compliance with, all applicable laws, regulations, and other legal requirements. Companies, plants, or other non-Federal signatories agree that they will not claim or imply that their participation in the SSL Quality Pledge that the Federal government approval or endorsement of anything other than its commitment to energy efficiency and will not make any statements or imply that DOE endorses the purchase or sale of products and services or the organization's view.

On behalf of _____, the undersigned company representative understands and agrees to the terms of the *SSL Quality Pledge*.

Signature: _____ Position: _____

Printed Name: _____ Date: _____