

## Press Information

October 20, 2009

### **PHILIPS LUMILEDS FIRST TO PUBLISH LUMEN MAINTENANCE—LM-80— TEST REPORT ONLINE**

SAN JOSE, CA — Philips Lumileds announced today that it is the first power LED manufacturer to publicly publish LM-80 test report data for use by luminaire manufacturers evaluating the merits of using different LEDs in their solid-state lighting solutions. The data clearly demonstrates that lumen maintenance performance exceeds ENERGY STAR® requirements by a wide margin as well as documenting lumen maintenance performance under various conditions. The test report is posted on the company's web site [www.philipslumileds.com](http://www.philipslumileds.com).

Philips Lumileds LM-80 test reports adhere to and are published in accordance with the Illuminating Engineering Society (IES) LM-80-08 standard.

“LUXEON Rebel's lumen maintenance clearly leads the industry. Using our LM-80 reports helps system designers meet ENERGY STAR® eligibility criteria and optimize solutions for a desired lumen maintenance level,” said Steve Barlow, Executive VP of Sales and Marketing for Philips Lumileds. “These reports are just one of the many tools we make available in order to simplify the development and production of LED luminaires and we encourage other manufacturers to follow our lead to help simplify and accelerate solid-state lighting market development.”

Lumen maintenance performance of LEDs varies significantly from manufacturer to manufacturer due to differences in materials and manufacturing processes. Philips Lumileds has been studying the factors that affect power LED lumen maintenance longer than any other manufacturer in an ongoing effort to improve performance and more accurately describe lumen maintenance behavior for the lighting community.

“Reliance on generic LED lumen maintenance statements that are adopted by luminaire manufacturers is destined to lead to disappointment with LED solutions,” said Rudi Hechfellner, Director of Applications at Philips Lumileds. In order to appropriately design for optimum lumen maintenance, Philips Lumileds recommends that luminaire manufacturers and the lighting industry do the following:

1. Understand the specific lumen maintenance behavior of the LEDs they have selected.
2. Disregard generic statements about LED lumen maintenance performance and ask for information that's appropriate for the anticipated current and temperature conditions.



The IES LM-80-08 standard describes the testing methodology and the test report format that LED manufacturers must follow. The IES standard does not make any assessment of the data or statements of appropriateness for any particular application. Other industry programs, such as ENERGY STAR<sup>®</sup>, establish performance criteria that can be determined from published LM-80 test reports. Data for the white LUXEON Rebel power LEDs clearly demonstrates that lumen maintenance performance exceeds the ENERGY STAR requirements by a wide margin.

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### **About Philips Lumileds**

Philips Lumileds is the world's leading provider of power LEDs for illumination solutions. The company's leading light output, efficacy and thermal management are direct results of the ongoing commitment to advancing solid-state lighting technology and enabling lighting solutions that are more environmentally friendly, help reduce CO<sub>2</sub> emissions and reduce the need for power plant expansion. Philips Lumileds' LUXEON LEDs are enabling new solutions for shop, outdoor, office, school, and home lighting applications. More information about the company's LUXEON LED products and solid-state lighting technologies can be found at [www.philipslumileds.com](http://www.philipslumileds.com).

### **About Royal Philips Electronics**

Royal Philips Electronics of the Netherlands (NYSE: PHG, AEX: PHI) is a diversified Health and Well-being company, focused on improving people's lives through timely innovations. As a world leader in healthcare, lifestyle and lighting, Philips integrates technologies and design into people-centric solutions, based on fundamental customer insights and the brand promise of "sense and simplicity". Headquartered in the Netherlands, Philips employs approximately 116,000 employees in more than 60 countries worldwide. With sales of \$38 billion in 2008, the company is a market leader in cardiac care, acute care and home healthcare, energy efficient lighting solutions and new lighting applications, as well as lifestyle products for personal well-being and pleasure with strong leadership positions in flat TV, male shaving and grooming, portable entertainment and oral healthcare. News from Philips is located at [www.philips.com/newscenter](http://www.philips.com/newscenter).