

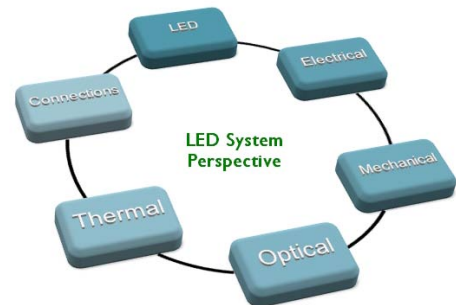
Press Information

May 5, 2010

PHILIPS LUMILEDS BRINGS BEST PRACTICES TO ANALYSIS OF LED ARRAY “LIFETIME” PERFORMANCE

SAN JOSE, CA — Philips Lumileds has published a new white paper titled [Evaluating the Lifetime Behavior of LED Systems](#) that provides the lighting industry with a methodology for evaluating how arrays of LEDs behave over time and how LED luminaire manufacturers can confidently make business decisions such as warranty commitments. The paper goes beyond simple lumen maintenance data which describes how a single LED behaves and addresses the more common lighting system which uses multiple LEDs in a wide variety of use conditions.

An LED luminaire’s usable life is determined by a manufacturer’s determination of expected lumen maintenance and by the actual usable life of the many components included in the system. Each of the components must be analyzed independently in order to provide an accurate assessment.

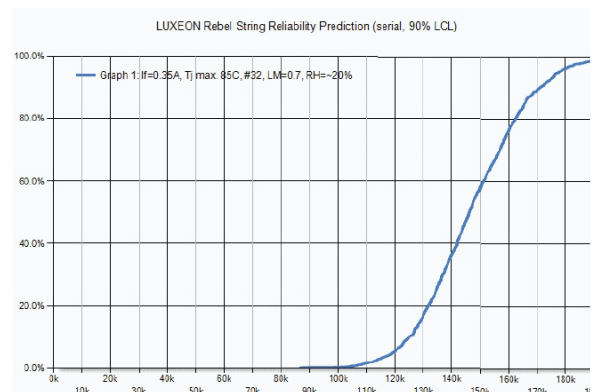


Philips Lumileds has collected and analyzed over 700 million hours of LUXEON LED reliability test data. Using statistical analysis and models that have long been used and proven in the automotive and electronics industries, Philips Lumileds paper describes how a luminaire manufacturer can define the “lifetime” of the LEDs in a system and understand how to scale from the behavior of one LED to many LEDs. This is an essential process for anyone that is developing product warranties and results in clear understanding of “lifetime” of the LEDs.

“Luminaire manufacturers no longer have to rely on the lumen maintenance behavior of a single LED as a proxy for the lifetime,” said Rudi Hechfellner, Director of Applications. “With these new methods, companies can now balance business objectives with engineering realities to provide products and warranties that the market wants and can have confidence in.”

The white paper covers the following topics:

- The ‘failure’ modes of power LEDs, and their impacts on luminaire reliability.



- Long-term LED performance testing: the foundation of reliability data.
- How reliability models are derived.
- What the models tell lighting manufacturers about LED behavior over time.
- Predicting the “lifetime” of an LED array.

Evaluating the Lifetime Behavior of LED Systems is publicly available at Philips Lumileds web site, www.philipslumileds.com, and from Future Lighting Solutions web site, www.futurelightingsolutions.com.

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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 CO₂ 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.

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 more than 116,000 employees in more than 60 countries worldwide. With sales of EUR 23 billion in 2009, 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.