

Press Information

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LUXEON® LED innovations & high-volume manufacturing drive advances in illumination

New white light technologies improve color control and appearance as LUXEON Flash surpasses the 200 million unit mark

San Jose, CA — Philips Lumileds' latest white-light technology advancements and high-volume manufacturing of power LEDs are driving new developments in consumer electronics and illumination applications, ranging from camera phones to refrigeration to task and indoor and outdoor area lighting. The combination of Lumiramic™ phosphor technology and “off-state white” innovations has made LUXEON Flash the superior solution for higher resolution camera phones and more than 200 million units have been delivered to handset manufacturers. These same LUXEON innovations are enabling solid-state lighting companies to develop luminaires to meet Energy Star requirements not only for light output and efficiency but color control and consistency as well.

Lumiramic phosphor technology, already being produced in high-volume, simplifies the development of solid-state general lighting applications and ensures consistent delivery of uniformly white LEDs. LUXEON Rebel warm white LEDs also utilize Lumiramic phosphor and represent the first LED product to enable a reduction in the white binning space for LEDs which simplifies solution development.

'Off-State White' technology is providing a new appearance for LEDs when they are not in use. Typical white LEDs appear yellow when they are not powered because of the yellow phosphor material that is used to convert blue LED light to white. With clear feedback from leading cell phone manufacturers, Lumileds scientists have developed a solution that eliminates the yellow appearance when an LED is off so that it appears 'white' or 'neutral' which allows the overall appearance of the cell phone to remain consistent with the designers vision for the phone.

Ongoing improvements in LUXEON LED performance and functionality are also fueling adoption of solid-state lighting. In less than five years the company has produced six generations of LUXEON Flash products that have contributed to the continued improvement of the camera function in handsets. For illumination applications found in retail, hospitality and outdoor settings, successive generations of LUXEON LEDs have expanded LED adoption by surpassing fluorescent



in efficiency; improving color control and consistency by shrinking the white binning space; improving CRI for warm white products; and ensuring supportability for high-volume applications.

The company's commitment to innovation for illumination applications has also led to the ability to use LUXEON Rebel and LUXEON K2 products in applications designed to meet Energy Star guidelines in the U.S., Part L in the U.K. and other regional standards created to ensure quality energy-saving lighting solutions.

About Philips Lumileds

Philips Lumileds is the world's leading provider of power LEDs for everyday lighting applications. The company's recent records for 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 never before possible applications in the general lighting, automotive, digital imaging, display, and signage markets. 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 approximately 128,000 employees in more than 60 countries worldwide. With sales of EUR 27 billion in 2007, 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.

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