

## Press Information

January 23, 2007

### Philips Lumileds shatters 350 mA performance records with 115 lm/Watt LED

San Jose, California — Philips Lumileds, the pioneer and the leader in high-power LED technology, announced today new performance records for high-power white LEDs. Philips Lumileds 1x1 mm<sup>2</sup>, chip based white LEDs, operating at just 350 mA, delivered 136 lumens for a light source efficiency of 115 lumens per Watt at a correlated-color-temperature (CCT) of 4685K. At 2000 mA, Philips Lumileds white LEDs delivered 502 lumens at a corresponding 61 lumens per Watt. These LEDs are the first high-power LEDs to break through the 100 lumen per Watt mark and demonstrate the real potential of solid-state lighting technology.

Philips Lumileds High-Power, White LED		
Current	350 mA	2000 mA
Lumens	136	502
Lumens per Watt	115	61
Watts	1.2	8.3

Philips Lumileds, the creator of the 350 mA high-power LED, continues its innovation by developing more powerful LEDs capable of long life when driven at 1000 mA – 2000 mA and higher. This innovation improves the light efficacy and the light quality, all while offering the lower cost required by many applications. Notable in the performance numbers is the CCT which is significantly lower than those typically reported. These results clearly demonstrate Philips Lumileds' progress in both light output and light quality.

Philips Lumileds achieved the record results for white LEDs by combining several new and innovative technologies it has developed. The first devices using these technologies will be introduced in a new generation of products during this quarter. These new technologies will

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continue to proliferate in new, and existing, products throughout the next 12-18 months. Philips Lumileds breakthroughs in epitaxy, device physics, phosphor, and packaging technologies are critical to delivering the performance required of LEDs as they continue their growth into a preferred light source.

The light output performance announced today and available to the industry in the near future, is 17 times greater at the same power than was available in 1999 when Philips Lumileds introduced the first high-power LED. While performance numbers continue to increase for low power LEDs, operating at lower currents such as 20mA, high-power LEDs are required to deliver the quality and quantity of light required for today's and tomorrow's lighting applications.

### **About Philips Lumileds Lighting Company**

Philips Lumileds Lighting Company is the world's leading high-volume manufacturer of power LEDs and a pioneer in the use of solid-state lighting solutions for everyday purposes including automotive lighting, camera flash, LCD televisions, portable lighting and general lighting. The company's patented LUXEON® Power Light Sources are the first to combine the brightness of conventional lighting with the small footprint, long life and other advantages of LEDs. Philips Lumileds also supplies core LED material and LED packaging, and manufactures billions of LEDs annually. The company is headquartered in San Jose, California, with operations in the Netherlands, Japan and Malaysia, Singapore and sales offices throughout the world. For more information, contact Philips Lumileds Lighting Company at 408-964-2900 or visit [www.philipslumileds.com](http://www.philipslumileds.com).

### **About Royal Philips Electronics**

Royal Philips Electronics of the Netherlands (NYSE: PHG, AEX: PHI) is a global leader in healthcare, lifestyle and technology, delivering products, services and solutions through the brand promise of "sense and simplicity". Headquartered in the Netherlands, Philips employs approximately 121,700 employees in more than 60 countries worldwide. With sales of EUR 27 billion in 2006, the company is a market leader in medical diagnostic imaging and patient monitoring systems, energy efficient lighting solutions, personal care and home appliances, as well as consumer electronics. News from Philips is located at [www.philips.com/newscenter](http://www.philips.com/newscenter).

### **Contact:**

Steve Landau, WW Marcom Manager  
Philips Lumileds Lighting Company  
[steve.landau@philips.com](mailto:steve.landau@philips.com)  
+1 408 964 2695

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