Press Information

April 10, 2013

**Philips creates the world’s most energy-efficient warm white LED lamp**

*First LED lamp prototype delivering 200 lumen per watt high quality light, halving the energy use compared to current LED lamps*

**Eindhoven, the Netherlands** – Royal Philips Electronics (NYSE: PHG, AEX: PHIA) announces a new innovation in LED lighting, creating the world’s most energy-efficient LED lamp suitable for general lighting applications. Philips researchers developed a tube lighting (TL) replacement TLED prototype that produces a record 200 lumens per watt of high-quality white light (compared with 100lm/W for fluorescent lighting and just 15lm/W for traditional light bulbs). This prototype TLED lamp is twice as efficient as predecessor lamps, basically halving the energy used.

With lighting accounting for more than 19% of the world’s total electricity consumption, this innovation promises to drive massive energy and cost savings across the globe. The 200lm/W TLED lamp is expected to hit the market in 2015 for office and industry applications before ultimately being used in the home.

The new TLED prototype lamp from Philips marks the first time that lighting engineers have been able to reach 200lm/W efficiency without compromising on light quality, with all parameters required to meet the stringent requirements for office lighting. “This again is a major breakthrough in LED lighting and will further drive the transformation of the lighting industry,” explains Rene van Schooten, CEO Light Sources & Electronics for Philips Lighting. “After being recognized for our quality of LED light (mimicking traditional light bulbs) to creating new experience with Philips Hue (the connected light system for the home), we now present the next innovative step in doubling lighting efficiency. It’s exciting to imagine the massive energy and cost savings it will bring to our planet and customers.”

**Significant energy and cost savings**

The TLED lamps are intended to replace fluorescent tube lighting used in office and industry, which currently account for more than half of the world’s total lighting. Conversion to the twice-as-efficient 200lm/W TLED lamps will generate significant energy and cost savings.

In the US alone, for example, fluorescent lights consume around 200 terawatts of electricity annually. If these lights were all replaced with 200lm/W TLEDs, the US would use around 100 terawatts less energy (equivalent to 50 medium sized power plants) saving more than US$12 billion and preventing around 60 million metric tons of CO₂ from being released into the atmosphere.

---

1 Comfortable, workable light requires a color temperature of 3000–4000 kelvins, a color rendering index of at least 80, and an R9 saturated red level of no less than 20.

2 U.S. Department of Energy report January 2012: Energy savings potential of solid-state lighting in general illumination applications
This new LED innovation from Philips underlines the value and power of its lighting business, bringing together its expertise in LED technology, lamps, applications and systems. Market leading innovations from Philips Lumileds, as in phosphor technology and blue LEDs, together contribute to the high quality of light and advances in efficiency.

For further information, please contact:
Jeannet Harpe
Philips Lighting
Tel: +31 6 53722221
E-mail: jeannet.harpe@philips.com

Marieke van Wichen
Philips Research
Tel: +31 621163537
Email: marieke.van.wichen@philips.com

About Royal Philips Electronics
Royal Philips Electronics (NYSE: PHG, AEX: PHIA) is a diversified health and well-being company, focused on improving people’s lives through meaningful innovation in the areas of Healthcare, Consumer Lifestyle and Lighting. Headquartered in the Netherlands, Philips posted 2012 sales of EUR 24.8 billion and employs approximately 118,000 employees with sales and services in more than 100 countries. The company is a leader in cardiac care, acute care and home healthcare, energy efficient lighting solutions and new lighting applications, as well as male shaving and grooming and oral healthcare. News from Philips is located at www.philips.com/newscenter.