

## Press Information

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### **PHILIPS PRESENTS LED TECHNOLOGY INNOVATIONS FOR HIGH PERFORMANCE ON ENERGY EFFICIENCY AND LIGHT QUALITY**

**Frankfurt, Germany** – At Light + Building 2012, Philips showcases a range of LED technology solutions that illustrate the rapid development of LEDs that can be used by luminaire manufacturers for general lighting in almost all professional applications.

Philips' Lumileds LUXEON LED technology delivers very high quality of light, energy efficiency, long lifetime, and design flexibility, controllability and colour – all of which are essential to enable luminaire manufacturers to create improved lighting solutions. Philips also provides a wide range of innovative LED modules and drivers, for different types of lighting applications. These are built upon Philips' "future-proof" promise - enabling regular efficiency upgrades, with a consistent form factor and constant lumen output.

#### **Philips Lumileds broad portfolio enables sustainable and customized applications**

The new LUXEON and Lumileds mid-power products are specifically designed to address customer needs based on lighting segments and even individual applications.

Highlights at Light + Building 2012 include LUXEON M, suitable for outdoor and industrial lighting applications, delivering excellent flux density and efficiency. With more than 900 lumens and a minimum CRI of 70 as standard, LUXEON M can significantly reduce system costs and payback periods.

LUXEON K can deliver more than 4400 lumens in an easy to install design. It is available in 5 different versions which allows for solutions to be tailored according to size and light output. The new LUXEON H is a high-voltage (AC) solution that is ideal for retrofit bulbs like GU10 and candelabra bulbs. LUXEON H has a high light output, and reduces energy consumption.

For the first time, Philips Lumileds will also show its new illumination mid-power products intended for office and other distributed LED lighting solutions. The emitters are uniquely specified with CCT, CRI, R9, and efficacy for each LED, and the range raises expectations for mid-power reliability, performance over time and temperature, and color maintenance.

#### **New Philips Fortimo LED Line System surpasses efficiency levels of T5 fluorescent**

The Philips Fortimo module range offers high quality of white light for almost any application, the highest energy efficiency levels, a future proof concept and a smart system approach. Philips' new Fortimo LED line system presented at Light +Building consists of 1-, 2- or 3-row LED modules and clearly surpasses the efficiency levels of T5 fluorescent lamps, offering up to 135 Lm/W with matching Xitanium drivers (75W, 36W and 17W). It produces pure white light with a colour rendering index above 80.

Philips' Fortimo LED line system has been developed to outpace fluorescent technology in efficiency and can be used in a wide variety of general lighting applications in office, industry and retail environments. The portfolio features modules in a variety of lengths, lumen packages, colour temperatures and designs for different ceiling heights – making it a flexible lighting solution for many different indoor applications where high quality, high efficiency general lighting is needed.

## **Philips Fortimo LED Spotlight Modules for high efficiency and quality of light**

Philips' third generation of the Fortimo LED spotlight modules has been developed specifically for retail lighting applications. The range is based on three basic customer needs: energy efficiency to reduce running costs, crisp white light to showcase retail merchandise and tight beams to create dramatic lighting effects in shops.

The Fortimo LED SLM 3000/830 Gen3 with COB technology is the first of the super efficient Gen3 family of LED SLMs, offering an impressive efficiency levels up to 115 Lm/W. It enables the most compact luminaire design possible and is fully backwards compatible with the Fortimo LED SLM Gen2. The full range of Fortimo SLM modules will be Zhaga-compliant.

Top of the range for shop accent lighting is the Fortimo LED SLM Tight Beam spot offering high punch illumination-for retail applications. Its extremely small but powerful light emitting surface produces 1100 lumen, producing high central candela power in combination with a small reflector design.

Philips Lumileds LUXEON S LED allows the Fortimo LED SLM Tight Beam to provide high light output out of the smallest possible light source. The Tight Beam module offers significant benefits for fashion retail environments as the small light source enables retailers to create a greater degree of contrast, showcasing fabrics and colors at their best, and making merchandise more attractive to customers.

The Fortimo LED SLM modules operate seamlessly with Xitanium drivers, which offer several form factors and dimming protocols to support all indoor general lighting applications.

## **Fortimo LED Down Light modules, for today and for tomorrow**

Philips started with the Fortimo LED down light modules (DLM) in 2008 and is now introducing its 4<sup>th</sup> generation. This module has also been based on the future-proof promise, allowing luminaire manufacturers easy upgrades of light sources in existing luminaires with minimal product adaptations needed.

The Fortimo LED DLM 2000 lm/840 Gen4 offers up to 105 Lm/W with a 15% energy efficiency improvement over Gen3, enabling lower power module/driver combinations and a more compact heat spreader design.

## **Fortimo LED HBMt and Xitanium LED Xtreme drivers offer simplicity and reliability in outdoor applications**

The Fortimo High Brightness Module (HBMt) is a compact rectangular light engine which allows for creation of different light distributions using a metal reflector. The high light output (4000 or 6000 lumens) and choice of two colour temperatures make this Zhaga-approved LED module an excellent solution for both outdoor and high-bay applications. Designed to be used with the reliable Philips Xitanium LED drivers, the HBMt design-in process is further simplified with one form-factor offering multiple lumen packages. A single design can be translated into a full portfolio of products.

The Xitanium Programmable LED Xtreme drivers offer a highly reliable technology that perfectly fits the needs of fixture manufacturers and end users. These drivers can be configured easily by OEMs to ensure an optimal solution, always meeting the need of the end-users.

## **Philips and Zhaga: providing a stable design platform and LED driver reliability**

As a founder member of the Zhaga consortium, which now includes over 180 companies, Philips plays a key role in creating universal specifications for LED Light engines. The Zhaga specifications are aimed at providing unification, peace of mind and clarity, thereby securing a stable design platform for luminaire manufacturers and designers.

At Light + Building Philips will present several Fortimo LED modules and Xitanium drivers which are Zhaga compliant:

- Fortimo SLM Gen 2
- Fortimo SLM Gen 3
- Fortimo Twistable 1100Lm, Gen2
- Fortimo LED HBMt
- Fortimo LEDLine
- Indoor Xitanium range

### **For further information, please contact -**

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### **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 122,000 employees with sales and services in more than 100 countries worldwide. With sales of EUR 22.6 billion in 2011, 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 male shaving and grooming, portable entertainment and oral healthcare. News from Philips is located at [www.philips.com/newscenter](http://www.philips.com/newscenter).*