

Press Release

Dresden, 17th of June 2011

LEDON OLED Lighting presents the world most powerful OLED lighting module with 1001 lumen and new product lines on the OLED Lighting Design Summit 2011 in London

OLED Lighting Design Summit Europe 2011, 22nd – 23rd of June 2011 in London

Dresden/Germany – On the OLED Lighting Design Summit 2011 in London LEDON OLED Lighting will present a breakthrough in OLED Lighting, the first 1001 lumen lighting module prototype for professional lighting applications.



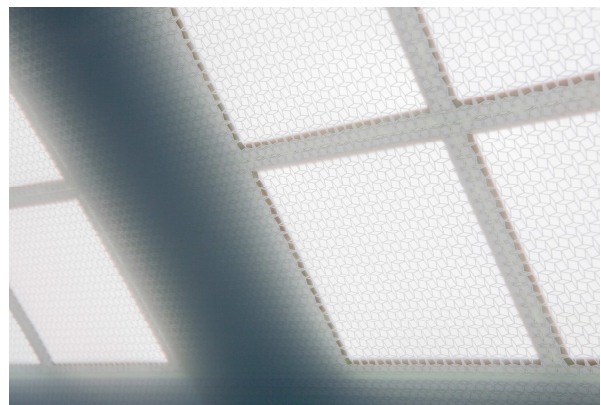
The Organic Light Emitting Diode (OLED) technology is the first real area light source technology in history. OLED lighting elements allow complete new lighting integration opportunities in different applications. Due to the slim form factor, it is possible to realize lighting solutions with very thin elements and high lighting homogeneity.

For professional applications, e.g. in office areas, the actual demonstrated luminous flux levels of OLED modules are too low. A practical barrier for OLED application in this field is a luminous flux area density above 10.000 lumen/m² in combination with high total luminous flux. The presented demonstrator overcomes this limit and combines outstanding OLED panels with an optimal optical, electrical and mechanical integration concept with a slim form factor to achieve the best results for large area lightings.

The prototype delivers 1001 lumen at a professional relevant colour temperature of 4077 K and a high efficacy of over 30 lumen/watt in a compact dimension of 300x300 mm² with a thickness of 5 mm, nine OLED elements (provided by LG Chem) combined with an optimized outcoupling are integrated in this module package. The average luminous flux area density is over 11,000 lumen/m².

“The presented prototype shows in a remarkable way the potential of OLEDs for professional lighting applications. The 1001 lumen package in combination with a neutral white colour temperature and high efficacy in one module package is an important breakthrough”, stated Joerg Amelung, general manager of LEDON OLED Lighting.

LEDON OLED Lighting in cooperation with Zumtobel Lighting GmbH shows also a professional pendant luminaire concept on the fair based on these lighting elements. This pendant luminaire was designed by Continuum Milan and delivers in total more than 1100 lumen luminous flux.



Also on the fair the start of a ready-to-market lighting series will be shown, the LUREON I lighting series. The LUREON I OLED lighting series combines a slim form factor (< 3.5 mm) and a high luminous flux area density (5000 lm/m²) for illumination applications. The elements could be combined with an adaptive driving system for easy application integration solutions. The modules could be delivered in different formats (up to 300x300 mm²) and in two colour temperatures (4200 and 2700 K) and show excellent lighting quality without angular colour dependence. The lighting series is dedicated for the integration in the in the application fields Effect lighting, Presentation lighting, Architectural lighting or in Design luminaires. The elements could be delivered as engineering samples starting now, the fabrication will start in August.

About OLEDs

An organic light-emitting diode (OLED) comprises a system of thin organic layers (approx. 200-400 nanometres thick), located between two electrode layers (anode and cathode). Printed onto a glass substrate, this wide-area light source is less than 2 millimetres thick. When a voltage is applied, light is generated within the system of layers and emerges through one of the electrode layers. In contrast to conventional light sources, OLEDs give off wide-area light with high-quality

colour rendering, which is very pleasant for the human eye. Another advantage is that there is no glare to the light emitted by OLEDs. As a result, OLEDs need no reflectors to reduce glare.

About LEDON OLED Lighting

LEDON OLED Lighting was founded in 2009 as a Joint Venture of the Zumtobel Group and the Fraunhofer Society and is located in Dresden, Germany, the heart of the German organic electronic industry.

The core competence of LEDON OLED Lighting covers the whole range of OLED technology and the integration into signage and lighting systems including OLED driving. LEDON OLED Lighting core business is the OLED module development and fabrication as OEM partner for luminaire designer, signage and luminaire production companies for the realization of the next generation lighting technology.

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