

Regensburg, 25 November 2009

OSRAM Opto Semiconductors presents first OLED light source

The Orbeos panel combines energy savings, quality light and design

Light, thin, non-glare and warm white – Orbeos is the first OLED light source from OSRAM Opto Semiconductors for premium quality functional lighting. The new energy-efficient surface-emitting panel is especially suited to applications in the premium segment such as architecture, hotels and catering, offices, private homes and shops.

The Orbeos OLED panel has a round lamp surface of 80mm diameter, is only 2.1mm thick and weighs 24g. These limited dimensions ensure plenty of different usage options. With an efficiency of 25lm/W, the panel beats that of conventional halogen lamps.

Its warm white colour temperature (2,800K, CRI up to 80) matches the warm light of an incandescent lamp and is therefore suited to lighting that is atmospheric and functional at the same time. Especially in homes, museums, restaurants or hotels, OLEDs also rate highly with their pleasant, non-glare light.

New design possibilities for architects and lighting planners

OLEDs open up totally new design possibilities for architects, lighting planners and designers – it is possible to create illuminated areas with them such as lit ceilings or partitions. “Our Orbeos adds to the wide range of lighting in the premium segment. Not only do its technical features have an effect here, but first and foremost its completely different appearance”, says Markus Klein, senior director SSL at OSRAM Opto Semiconductors. “Orbeos is a combination of energy savings and aesthetics.”

The Orbeos OLED panel is the first product developed by OSRAM on the market. In 2008, the first commercially available “Early Future” table lamp by renowned lighting designer Ingo Maurer with OLED tiles from OSRAM Opto Semiconductors demonstrated how OLEDs can be used in functional lighting.

Long-lasting panel lighting

Orbeos can be switched on and off without delay and is continuously dimmable. Unlike LEDs its heat management is simple. The panel contains no mercury and emits no UV or infrared radiation. Its brightness level is usually 1,000cd/m² with power input of less than a watt. In ideal operating conditions it

has a lifespan of around 5,000 hours. Orbeos is available with a frosted glass surface. The panels can be easily mounted using spring contacts.

The rapid advance of OLEDs in general lighting has succeeded not least thanks to the technical principles of the 'Organic Phosphorescent Lamps for Applications in the Lighting Market' project (OPAL), which is funded by the German Federal Ministry of Education and Research (BMBF).

You can order products from OSRAM Opto Semiconductors (www.osram-os.com/light-shop and www.osram-os.com/sales) and obtain technical information from its technical support department by calling +49 (0) 941 850 1700.



Photo: OSRAM

<http://www.osram-os.com/press>

<http://www.osram-os.com/OLED>

New design options come true: Orbeos introduces OLED technology to general lighting.

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