

Presse Press

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Chip scale package LED from Osram takes retail lighting to another level

The prototype of the Oslon Pure 1010 delivers the highest flux density currently available on the market

Osram Opto Semiconductors is unveiling the prototype of the Oslon Pure 1010 at this year's Light+Building in Frankfurt. Sized at 1 mm x 1mm, the LED is destined to be used in spotlights for retail lighting where exceptionally compact LEDs with high light output are needed to bathe articles on display in a particularly attractive light. The scalability of the chip scale package (CSP) LED gives customers outstanding flexibility in putting together their individual lighting solutions.

The prototype of the new Oslon Pure 1010 with its typical luminous flux of 100 lm at 350 mA and a color temperature of 3,000 K almost perfectly follows Lambert's law and achieves a flux density of 237 lm/mm² when operating at 1,000 mA. The achieved luminance is then very much higher for the same component size. This property is useful particularly if the new LED is used for illuminating merchandise in retail outlets – diamond rings in a jeweler's shop, for example.

The Oslon Pure 1010 gives lighting designers a high degree of flexibility because of its extremely compact 1.0 mm x 1.0 mm x 0.25 mm dimensions. The new LED comes without a primary lens. The reduction in height is thanks to the chip scale package (CSP). The light-emitting surface is contacted not in the usual way with a bond wire from above but within the component itself without the need for bond wires. These properties together with the small dimensions enable multiple LEDs to be placed very close together in a small space. Warm white and cold white LEDs can be combined – the number of individual

LEDs, their arrangement and the relative proportions of warm white and cold white LEDs can be tailored to meet specific customer requirements.

If applications call for highly concentrated spotlighting, customers can simply add appropriate secondary optics. Thanks to the compact dimensions and directional emission of the Oslon Pure, the secondary optics can also be very small, which in turn means that the overall solution will save even more space and cost. The prototype of the Oslon Pure 1010 gives customers outstanding flexibility in putting together their individual lighting solutions.

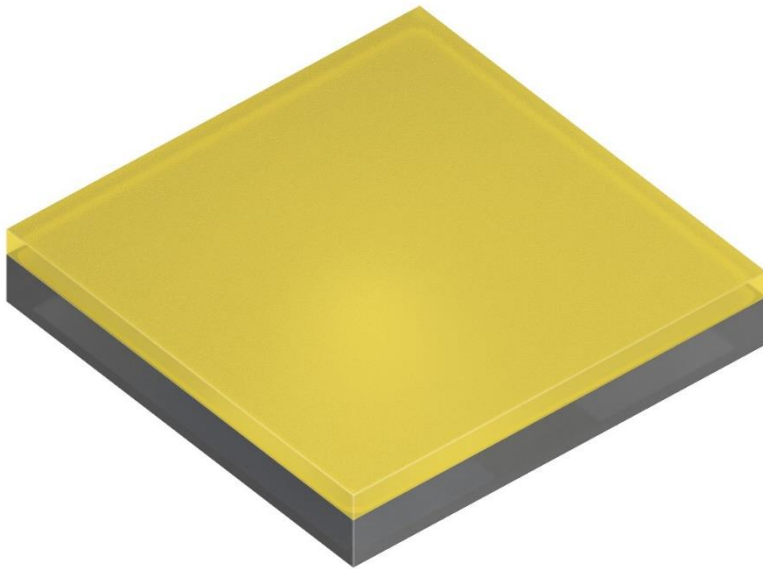
At [Light+Building 2018](#), which runs from March 18 through 23 in Frankfurt, Osram Opto Semiconductors is unveiling the prototype of the Oslon Pure 1010 in the CRI-80 version for the first time in [Hall 6.2, booth C04](#). The LED will be available as early as May 2018. A CRI-90 version will then follow in the fall of 2018.

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Presenting merchandise in an attractive light: the prototype of the Oslon Pure 1010.
Picture: Osram



The prototype of the Oslon Pure 1010 stages not only jewelry on display.
Picture: Osram

ABOUT OSRAM

OSRAM, based in Munich, is a leading global high-tech company with a history dating back more than 110 years. Primarily focused on semiconductor-based technologies, our products are used in highly diverse applications ranging from virtual reality to autonomous driving and from smartphones to smart and connected lighting solutions in buildings and cities. OSRAM uses the endless possibilities of light to improve the quality of life for individuals and communities. OSRAM's innovations enable people all over the world not only to see better, but also to communicate, travel, work and live better. OSRAM has approximately 26,400 employees worldwide as of end of fiscal 2017 (September 30) and generated revenue of more than €4.1 billion. The company is listed on the stock exchanges in Frankfurt and Munich (ISIN: DE000LED4000; WKN: LED 400; trading symbol: OSR). Further information can be found at www.osram.com.