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The new class of light

One of the world's smallest LEDs in the 1 W sector

Small in size, big on performance – that is the new ultra-white Oslon SSL LED from OSRAM Opto Semiconductors. Its package measures just 3 x 3 mm but in terms of luminous efficacy the LED is among the greats with a typical value of 100 lm/W. Its properties provide the basis for high application efficiency thanks to high efficacies even at high currents, simplified thermal management, high reliability and a beam angle of 80°. The LED provides light that is ideal for spotlights, desk lights and ceiling floodlights

The new Oslon SSL LED is an LED in the 1 W class and meets the requirements for use in general lighting. It is very small, reliable and efficient even at high current and thanks to its beam angle of 80° it is ideal for injecting light into external lenses. "Its ability to handle high currents efficiently enables our customers to create particularly energy-efficient and cost-saving lighting solutions. The Oslon LED therefore has all the attributes to become the 'green' light source of the future", said Dr. Gunnar Moos, SSL Marketing Manager at OSRAM Opto Semiconductors. Its low thermal resistance of 7K/W simplifies thermal management. Its small size gives designers the flexibility to create extremely sophisticated solutions. If particularly strong light is needed, several light sources can be combined in a cluster. In addition to ultra-white (5700 to 6500 K), the LED will be available this summer in neutral white and warm white. Its color temperature will range from 2700 to 4500 K.

The Oslon SSL is manufactured using the latest chip technology, ensuring a high luminous efficacy. At an operating current of 350 mA this light source achieve a typical brightness of 110 lm in ultra-white (5700 and 6500 K), with a maximum possible luminous flux of 130 lm at present. At an operating current of 350 mA and a color temperature of 3000 K it achieves a typical efficiency of 75 lm/W and a brightness of 85 lm. And brightness is an impressive 155 lm at an operating current of 700 mA (warm white). The advantage here is that applications that demand high lighting levels can be completed with fewer LEDs.



Picture: OSRAM

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

The new Oslon SSL can be used as a replacement for halogen lamp in spotlights, desk lights and reading lights and can also be used in retrofit applications.

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