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LED light for the road? No problem.

OSRAM Opto Semiconductors offers solution with integrated lens

The Golden Dragon Oval Plus LED from OSRAM Opto Semiconductors provides perfect illumination for energy-efficient street lighting without the need for secondary optics. The highlight is the new integrated lens. Its oval radiation pattern delivers directed light, ideal for street lighting and reduces the effort for this application considerably.

Golden Dragon Oval Plus has been developed as an 'easy to use' LED solution specifically for street lighting. With its oval beam characteristics (80° vertical, 120° horizontal) and integrated long-life silicone lens it meets the special requirements for energy-efficient street lighting and minimal light pollution. The light is directed precisely on the area to be illuminated - with no upward stray light.

Since different roads call for different lighting concepts, the LEDs are available in different white tones. Their efficiency is typically 90 lm/W in cold white (6500 K color temperature) and 80 lm/W in neutral white (5000 K). The warm white version with a color temperature between 2700 and 4500 K has been developed for any illumination that has to create a welcoming atmosphere, for example in a historic city center. At 4500 K it achieves an efficiency of typically 65 lm/W and produces a particularly pleasant light.

The main benefit of the new LED is its integrated lens. This makes secondary optics superfluous and enables street lighting to be provided with much lower effort. The LED is also suitable for standard solder processes. Dr. Markus Klein, Head of SSL Product Development at OSRAM Opto Semiconductors, commented: "Our 'street lighting LED' combines various benefits in one place. It is highly efficient, and has a long lifetime due to its silicone lens. Additionally it offers good visibility at night because the LEDs can be arranged in the system to distribute the light accurately. This new light source also makes it easier to upgrade to efficient street lighting with LED technology."

The Golden Dragon Oval Plus is suitable for all applications that call for linear efficient lighting with a homogenous oval light pattern, particularly street and tunnel lighting. It meets all the requirements that apply to homogenous illumination. The LEDs are also lead-free and mercury-free and therefore fit for the future of more energy efficient, environmentally friendly outdoor lighting.



Picture: OSRAM

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

The new Golden Dragon Oval Plus, the simple way to brighten any street – and no light pollution.

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