

Presse Press

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Osram Chip Scale Package LED enables efficient and cost-saving luminaires for outdoor lighting

- Osconiq C 2424 impresses with industry-leading efficiency and superior lifetime
- LED features excellent color homogeneity and color over angle performance
- Thanks to Chip Scale Package (CSP) footprint, LEDs can be densely clustered

Whether it's lighting for city centers, parks or warehouses, the combination of energy efficiency and lighting quality is of key importance to luminaire manufacturers. The requirements for lighting solutions vary depending on the desired outcome - from a historic town bathed in pleasant warm white light to streets and tunnels brightly illuminated for drivers. The compact high-power LED Osconiq C 2424 from Osram Opto Semiconductors offers a broad color temperature range from cool to warm white and various color rendering indices (CRIs), enabling a large variety of different luminaire designs. In addition, it is the only CSP LED with an integrated ESD (electrostatic discharge device) available in the market, that protects the LED from any electrostatic damage.

"We specifically designed the Osconiq C 2424 to be compact, while maintaining high brightness and efficiency levels, as well as outstanding lifetime and robust performance," said Christian Wittmann, Director of Product Management Illumination at Osram Opto Semiconductors. "We also managed to significantly reduce overall system costs for our customers with our new LED." The Osconiq C 2424 is ideal for high-power applications and is available in three CRIs: 70, 80 and 90. It covers the color temperature range from 2200 to 6500 Kelvin. In addition to numerous design options, luminaire manufacturers benefit from the LED's outstanding brightness and efficiency values. For example, the CRI 70 version achieves 328 lumens at 700 milliamperes and a performance of 167 lumen per watt.

Luminaire manufacturers benefit from the robust epoxy package of the LED, which provides increased stability and protects the component from corrosion and external shocks. Other key advantages include the lowest thermal resistance (Rth) and best color over angle performance for a CSP product in the market. The Osconiq C 2424 features Osram's proven UX:3 chip technology and an integrated ESD, which protects against damage caused by electrostatic voltages up to 8 kV.

The Osconiq C 2424 package measures 2.4 mm x 2.4 mm x 0.6 mm. The chip or the light-emitting surface (LES) of the LED is 2.1 mm x 2.1 mm. Because the package and chip have approximately the same dimensions, it is considered a CSP. This allows the individual LEDs in the luminaire to be placed close together, ensuring particularly homogeneous illumination.

Technical details of the Osconiq C 2424 at a glance:

	CRI	CCT Range	Binning (mA)	Typ. Flux (lm)	Typ. Eff (lm/W)
Osconiq C 2424	70	2200 – 6500 K	700	328	167
	80	2200 – 5700 K		270	137
	90	2700 – 6500 K		218	111

Further information about outdoor lighting can be found [here](#). You are also welcome to contact our [technical support](#) colleagues.

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The Osconiq C 2424 is the first product in Osram's new product family designed for compactness and efficiency.
Image: Osram



Whether for lighting streets or parks, the Osconiq C 2424 enables compact luminaire designs for a wide range of applications.
Image: 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 had approximately 21,000 employees worldwide as of end of fiscal 2020 (September 30) and generated revenue of around three billion euros from continuing activities. The company is listed on the stock exchanges in Frankfurt and Munich (ISIN: DE000LED4000; WKN: LED 400; trading symbol: OSR). Additional information can be found at www.osram.com.