

ERCO luminaires with chip-on-board technology:

an extensive new range of retail products for maximum diversity with quality of light at an attractive price

Lüdenscheid, April 2018. Light is the fourth dimension of architecture. And each form of architecture places differing demands on light – especially in the retail sector. Light and surfaces are the determining factors in providing shops with unique identities and atmospheres. It is here that the vision of the lighting designer materialises in the true sense of the word. Appropriate light distributions are needed for optimum spatial impact but the quality of materials and merchandise only becomes perceivable with suitable light colours and light spectra. ERCO perfectly combines both parameters in its new range of luminaires with chip-on-board technology, thus significantly expanding the options available to lighting designers in retail lighting.

Light colours and light spectra of the ERCO chip-on-board technology

A chip-on-board LED is characterised by several single LEDs being grouped on a circuit board and combined with a phosphor layer optimised for the specific application. This enables finely nuanced graduations to be achieved with light colour and light spectrum. Differing characteristics can be emphasised according to requirements, for example optimal colour rendering, especially high luminous flux, a predefined light colour or specific spectral properties. Users benefit from a selection of variants previously unknown to this extent. Seven different light colours and one application-optimised spectrum are offered as standard.

LEDs with a light colour of 2700K and 3000K generate pleasantly warm light, and optionally with colour rendering of Ra 80 (827 or 830) or Ra 90 (927 or 930) for maximum colour accuracy. In the neutral white range, spectra in close graduations are available with 3500K Ra 90 (935) and 4000K Ra 80 (840) plus Ra 90 (940).

Depending on the application, a spectrum for especially radiant colours is specifically offered for the retail industry, particularly for the fashion sector. Further light colours and spectra can also be realised project based on request.

Lighting technology optimised for chip-on-board technology

With the launch of an extensive luminaire system for retail lighting featuring chip-on-board LEDs, ERCO at the same time presents a photometric approach specifically optimised for this purpose. The special properties of the technology are taken into account by using a specifically matched light-guiding system. Chip-on-board LEDs have a larger light-emitting surface than high power LEDs, that in turn requires an optical system adapted to this. ERCO solves this with a lighting technology that combines the LEDs with a lens system to create a precise, glare-free unit. Dispensing with the normally requisite reflectors also ensures efficient, high visual comfort with luminaires featuring CoB technology. Furthermore, reliable ERCO Spherolit lenses are used to enable user-friendly light distributions ranging from spot to flood and wide flood. However, the oval flood and wallwash asymmetric distributions clearly differentiate the solution from its competitors. The lighting technology was specifically optimised for retail applications. The light distributions on the one hand differ sufficiently to cover all requirements and on the other enable simple planning and easy use on location by the layman. A precisely defined spill light component and softly diminishing light distributions moderate the contrasts and enable appealing concepts with high flexibility. The newly developed series of luminaires also features a classic appearance when directly viewed – a uniformly bright surface is seen instead of discreet LED points on the light emission surface, as is familiar from traditional lamps. In this regard the products offer not only unique performance but also an aesthetic alternative. Despite their high level of variations and technical sophistication, the luminaires are still market entry products with competitive pricing.

Available products with ERCO chip-on-board technology

The newly developed lighting technology is already offered as an extensive system at its market launch. This enables complete projects to be carried out with a uniform quality of light. Optec for chip-on-board LED: With Optec, an especially reliable luminaire range consisting of spotlights, floodlights and wallwashers for track is being expanded with the new technology and optimised for use in retail lighting. Quintessence Pinhole for chip-on-board LED: the limits of minimalism are redefined with this directional spotlight. An exceedingly small ceiling opening makes

the luminaire almost invisible to create a highly magical light effect. Gimbal and Gimbal with mounting bracket for chip-on-board LED: the highly reliable Gimbal recessed spotlights with their precise, compact swivel mechanism have also been updated to the new technology. Variants are available for ceiling mounting or with mounting bracket. The luminaires with mounting brackets can be easily concealed, e.g. in on-site ceiling ducts.

The extensive range of luminaires with chip-on-board LEDs and optimised lighting technology rounds off ERCO's wide-ranging toolbox of architectural and retail lighting for the projects of both technical and creative planners. All products are available from the start of 2018 and are detailed in a brochure and on the ERCO website (www.erco.com).

Images

ERCO Optec with chip-on-board technology

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About ERCO

The ERCO Light Factory in the German town of Lüdenscheid is a leading international specialist in architectural lighting using LED technology. The family business, founded in 1934, now operates as a global player with independent sales organisations and partners in 55 countries worldwide. Since 2015 ERCO's portfolio has been 100% LED. With this in mind, ERCO in Lüdenscheid develops, designs and produces digital luminaires with focus on photometrics, electronics and design. Working closely with architects, lighting designers and engineers, ERCO develops lighting tools used primarily for applications in the following fields: Work, Shop, Culture, Community, Hospitality, Living, Public and Contemplation. ERCO understands digital light as the fourth dimension of architecture – providing highly precise and efficient lighting solutions to support creative designers in turning their visions into reality.

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