

The perfect luminaire for delivering light over long distances:

Stella spotlights, floodlights and wallwashers from ERCO for special requirements

Lüdenscheid, June 2018. LED has now conquered most sectors of lighting technology. With the new Stella spotlights, floodlights and wallwashers, ERCO now drives forward the borders of what is possible just a little further: these are especially high-luminosity, efficient and precise tools for architectural lighting that with their high lumen output also easily cope with large distances and extreme ceiling heights.

Whether airport terminals, hotel foyers, exhibition halls, church naves or shopping malls – Many architectural spaces impress purely with their dimensions. Lighting concepts are able to support the dramatic spatial effect by positioning luminaires far away from the field of view and at a wide distance from the target plane or illuminated object. Exhibits and architectural elements appear to illuminate without the light source being immediately noticed – in this way a magical sense of light is created, giving rooms a further dimension. If it wasn't for the fundamental photometric principal according to which illuminance recedes with the square of the distance between the light source and the illuminated plane. Or put another way, for such lighting concepts planners need especially high-output lighting tools with precisely defined light distributions.

Luminous flux levels to 9840 lumens

The name Stella in the ERCO product range represents high-performance spotlights, floodlights and wallwashers for track mounting. The new product range elevates the reliable ERCO system of luminaires with its seven different light distributions generated from LED projection optics to a new level of performance for indoor luminaires. With luminous flux of up to 9840 lumens, Stella spotlights achieve what was only previously possible with 150W metal halide lamps whilst consuming less than half the energy. The development engineers from Lüdenscheid, Germany take full advantage of their experience with maintenance-free LED thermal management. The flat, diecast aluminium luminaire head

with rear cooling ribs implements passive cooling of the LED PCBs. Optimum thermal conditions ensure a long service life without the use of fans, thus eliminating potential sources of noise and interference. The technically neutral design of the luminaires blends into any style of architecture in the form of a functional detail.

For accent lighting, floodlighting and vertical illumination

The Stella range consists of two construction sizes and several wattages to provide practically-oriented degrees in luminous flux. Fine tuning is carried out either via the potentiometer located on the separate control gear housing, via phase dimming on the circuit or digitally via the optional DALI interface. Light distributions with the spotlights consist of narrow spot (beam angle approx. 5°), spot (beam angle approx. 15°) and flood (beam angle approx. 30°), and with the floodlights these are wide flood (beam angle approx. 50°), extra wide flood (beam angle approx. 85°) and oval flood (beam angle approx. 60°x15°) as well as asymmetrical wallwash characteristic. This means Stella is not only suitable for strikingly and brilliantly accenting objects such as sculptures or vehicles from large heights, but is also ideal for the efficient floodlighting of complete room zones with just a few luminaires and the uniform, vertical illumination of even very high walls.

Nuanced qualities of light

As an additional dimension for design within the ERCO system of luminaires, Stella also has an expanded selection of LED spectra: In addition to warm white 3000K, warm white 2700K is now also optionally available. With neutral white 4000K lighting designers can select between the version optimised for efficiency with extremely high luminous efficacy and colour rendering of $Ra \geq 80$ or the option with especially good colour rendering of $Ra \geq 90$. In summary, the Stella range offers a high-performance and equally diverse kit of tools for creatively designing with light – for high rooms and equally high standards.

Technical features

ERCO lens system:	Spherolit lenses, collimating optic of optical polymer
Light distributions:	Narrow spot, Spot, Flood, Wide flood, Extra wide flood, Oval flood, Wallwash
ERCO LED module:	high-power LEDs on metal-core PCB.
Cooling:	passive, via luminaire head designed as heat sink.
Light colours:	warm white 3000K, neutral white 4000K (Ra≥80), on request: warm white 2700K, neutral white 4000K (Ra≥90)
Light head:	diecast aluminium
Control gear housing:	polymer
Installation:	with adapter to ERCO track
Control gear:	switchable, dimmable (trailing edge and integrated potentiometer) or DALI
Accessories:	honeycomb anti-glare screen, snoot, Spherolit interchangeable optics

Images



Display lighting from large distances requires high luminous flux levels and precise light distributions. An ideal application for the Stella range.

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The Stella range consists of two housing sizes, several wattages, the seven Spherolit light distributions from the ERCO luminaire system and various options for light colours and control gear. The diecast aluminium light head achieves optimum thermal conditions for reliable long-term operation.

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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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