ERCO

Press release

28,000 solutions for individual lighting tasks:
The new Eclipse spotlight range from ERCO

Lüdenscheid, January 2020. For some lighting projects, only the best technology is good enough: prestigious museums, art galleries and exclusive retail projects for example. Clients expect individual lighting solutions that simultaneously offer perfect quality in terms of design and lighting technology. A requirement that ERCO meets 28,000 times with the Eclipse range – the new spotlights, floodlights and wallwashers not only impress with innovative technical details but also with unprecedented system scope. Never before has ERCO had a range of spotlights with so many sizes, optics, light colours and connectivity options – as well as such a wide range of accessories that further increases possibilities.

But what must a lighting system look like that emphasises precious objects in display cases as brilliantly as it uniformly floods the walls of art galleries or highlights large sculptures in atria? Definitely unlike anything else before, thought the ERCO developers and designers. The original appearance of Eclipse is characterised by its new type of optics. A bayonet connects these interchangeable lens units with the slender, cylindrical luminaire bodies made of cast aluminium. Apart from a few interesting exceptions to be discussed below, the optics create their specific light distribution by means of special Darklight lenses from only one light point. Due to the clear, highly non-reflective lenses, the beam path is virtually invisible and the light emission is free of spill light – for a magical appearance and superior visual comfort.

Consistent and scalable

The dimensions of the Eclipse system score points even without the element of magic: five sizes from XS to XL provide an enormous range of lumen packages for applications of any scale. The most compact Eclipse spotlights with a diameter of only 32mm fully exploit the miniaturisation potential of modern LED technology. They enable highly nuanced lighting concepts even under tight space conditions, especially with the variant for Minirail 48V track. In any size, the interchangeable

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lens units ensure that the light distribution is precisely and flexibly matched to the lighting task at hand.

The complete toolbox

The complete gamut of characteristics from the ERCO luminaire system are available to lighting designers. High-precision Darklight lenses define the rotationally symmetric light distributions ranging from narrow spot (5°) to extra wide flood (80°). There is also a range of ERCO speciality features: two axially symmetric light distributions consisting of oval flood (18° x 65°) and oval wide flood (55° x 85°), the wallwash asymmetric light distribution for uniform vertical illumination, the contour spotlight for crisp-edged projections onto surfaces and the two compact zoom optics of zoom spot (17° - 67°) and zoom oval (25° x 65° to 62° x 68°). In short, an entire toolbox with which all conceivable situations can be mastered, for example, in museum lighting – with accessories such as sculpture lenses and soft focus lenses enabling further fine-tuning.

Perfectly matched LED spectra

The same principle – a modular design with accessories – also makes the system extremely versatile and flexible in terms of light colours. Eclipse comes with LEDs in six light spectra with colour temperatures from 2700K to 4000K and colour rendering indices from Ra 82 to Ra 97. Four conversion filters as accessories create 24 additional spectra for colour fine-tuning. Alternatively, tunable white and RGBW are also available, especially for dynamic scenes. In the case of Eclipse, ERCO offers various conventional and wireless connectivity solutions to control such functions and for infinitely variable dimming down to 0.1% – in an even larger selection than usual.

Connectivity – from Bluetooth to Zigbee

Most options are available for the Eclipse InTrack luminaire model with its ultra-slim, flush-rail adapters for the ERCO track. The options for wireless control via Casambi Bluetooth or Zigbee 3.0 are especially noteworthy here – but also the new Multi Dim control gear which is extremely flexible with DALI, Push Dim or phase dimming. Eclipse (sizes XS to M) is also available with the proven ERCO

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transadapter specifically as an upgrade for existing track installations. Eclipse 48V for Minirail can be controlled wirelessly via Casambi Bluetooth, Zigbee 3.0 and DALI via Casambi Gateway. The options "switchable" and "on-board Dim" with rotary control on the luminaire are available in all versions.

A future-oriented high end system

The technical details outlined above make it clear: with its Eclipse range, ERCO breaks new ground in many areas and thus reinforces its claim to leadership in the lighting industry for museums, exclusive shops and comparable applications that demand high-end lighting tools. To solve demanding lighting tasks, Eclipse is set to become the premier choice for all lighting designers and users in the future.

The film about the product: https://youtu.be/cB4kH-0fDdw

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Technical properties of the three product ranges

Eclipse InTrack for track

ERCO lens system:	lens optic made of optical polymer (Darklight lens or Spherolit lens)
Direct light distributions:	Narrow spot (5°), Spot (18°), Flood (30°), Zoom spot(17°– 67°), Zoom oval (25° x 65° – 62° x 68°), Framing (crisp-edged illumination of pictures), Wide flood (50°), Extra wide flood (80°), Oval flood (18° x 65°), Oval wide flood (55° x 85°), Wallwash (uniform wallwashing)
ERCO LED module:	High-power LED
Light colours:	2700K Ra92, 3000K R92, 3000K Ra97, 3500 Ra 92, 4000K Ra92, 4000K Ra92, tunable white (2700K – 8000K) or RGBW
Housing:	aluminium, colour: white, black, silver
Installation:	InTrack Adapter
Control gear:	switchable, On-board Dim, Multi Dim, Multi Dim + On-board Dim, Casambi Bluetooth (+ DALI via Gateway) or Zigbee 3.0 Multi Dim version: DALI dimmable, Push Dim or dimming with external dimmers (leading edge-/trailing edge-/ universal dimmer) possible On-board Dim version: rotary control for control of brightness on the luminaire

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Eclipse for track

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ERCO LED module:	High-power LED
Light colours:	2700K Ra 92, 3000K R92, 3000K Ra97, 3500 Ra 92, 4000K Ra92, 4000K Ra92
Housing:	aluminium, colour: white, black, silver
Installation:	transadapter or DALI transadapter
Control gear:	switchable, phase dimmable + On-board Dim, DALI dimmable Phase dimmable + On-board Dim version: Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

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Eclipse 48V for 48V Minirail track

ERCO lens system:	lens optic made of optical polymer (Darklight lens or Spherolit lens)
Direct light distributions:	Narrow spot (5°), Spot (18°), Flood (30°), Zoom spot (17° – 67°), Zoom oval (25° x 65° – 62° x 68°), Framing (crisp-edged illumination of pictures), Wide flood (50°), Extra wide flood (80°), Oval flood (18° x 65°), Oval wide flood (55° x 85°), Wallwash (uniform wallwashing)
ERCO LED module:	High-power LED
Light colours:	2700K Ra 92, 3000K R92, 3000K Ra97, 3500 Ra 92, 4000K Ra92, 4000K Ra92, tunable white (2700K – 8000K) or RGBW
Housing:	aluminium, colour: white, black, silver
Installation:	ERCO Minirail Adapter
Control gear:	switchable, On-board Dim, Casambi Bluetooth (+ DALI via Gateway), Zigbee or Wireless DALI Connect On-board Dim version: rotary control for control of brightness on the luminaire

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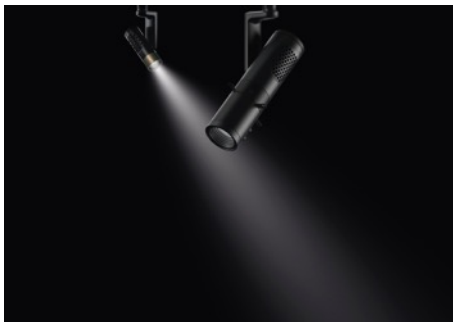
Images



The art of illuminating: the new Eclipse spotlight range offers unprecedented system scope. 28,000 variants individually solve demanding lighting tasks at the highest quality levels.

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The Eclipse system is highly modular. The interchangeable lens units not only provide an unmistakable appearance, but also make Eclipse an extremely flexible tool for lighting design, including special features such as contour spotlights and RGBW spotlights.

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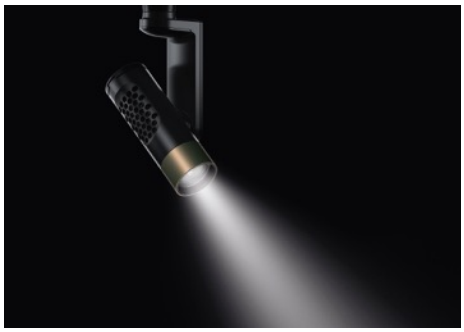

The lens units from Eclipse create their specific light distribution by means of special Darklight lenses from only a single light point. Due to the clear, highly non-reflective lenses, the beam path is virtually invisible and the light emission is free of spill light. Via the "ERCO individual" service, coated surfaces in e.g. matt brass can also be produced on request.

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Five sizes from XS to XL provide an enormous range of lumen packages for applications of any scale. The most compact Eclipse spotlights with a diameter of only 32mm fully exploit the miniaturisation potential of modern LED technology.

Ideal for museums with a high level of daylight: Eclipse InTrack spotlights in tunable white: their light colour can be infinitely adjusted – via DALI or wireless, via Casambi Bluetooth or Zigbee 3.0.

Visualization: Electric Gobo

The compact Eclipse 48V for Minirail 48V track are predestined for illuminating museum dioramas and display cases. They enable lighting solutions at the highest level, even in confined spaces. With optional control via Casambi Bluetooth, the spotlights offer the comfort and convenience of wireless connectivity.

Visualization: Electric Gobo

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The Eclipse range offers an unprecedented system scope. The spotlights in size XL with luminous flux of over 5,000 lumens are also suitable for applications in which objects need to be accentuated brilliantly and with high contrast from large heights.

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Visualization: Electric Gobo

Not only museums, but also retail projects for exclusive brands and merchandise place the highest demands on the quality and individuality of lighting. Eclipse InTrack are the optimal system solution for such high-end concepts.

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Visualization: Electric Gobo

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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.

If you require any further information on ERCO or image material, please visit us at www.erco.com/presse. We can also provide you with material on projects worldwide for your media coverage.

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