ERCO

Press Release 06.2020

Create the perfect lighting effect in every situation: the new Eclipse range from ERCO and its modular system of accessories

Lüdenscheid, June 2020. The strategy is clear: ERCO with its Eclipse product range targets applications with the highest standards such as prestigious museums, art galleries and exclusive retail projects. With 28,000 product variants, the new system of spotlights already includes an exceptionally wide range of solutions for individual lighting tasks. But Eclipse also stays flexible in its application thanks to a modular concept with the optics and accessories – a decisive advantage, especially when used extensivelyin display and exhibition lighting. This gives lighting designers and practitioners the opportunity of modifying properties such as light distribution, light colour and visual comfort to the specific task precisely, simply and at the same time reversibly.

A central requirement of lighting concepts for museums, galleries and luxury retail projects is flexibility: this is because exhibits, exhibitions, forms of display, seasons and ranges evolve and change over the lifespan of the lighting system. The Eclipse spotlight system is perfectly prepared for this because the luminaires are not only freely positionable and alignable on the track, but their photometric characteristics can also be varied and modified with the use of appropriate accessories. Users can therefore on the one hand configure highly specific tools from the Eclipse range for individual tasks. On the other hand, museum technicians or visual merchandisers in the design-conscious retail trade can also build up a versatile stock of lighting tools with Eclipse spotlights in various sizes combined with the unparalleled range of matching accessories and are thus perfectly prepared for changing requirements.

Copies and links requested.

For further information or image material please contact:

mai public relations GmbH
Arno Heitland
Leuschnerdamm 13
10999 Berlin
Germany
Tel: +49 (0) 30 66 40 40 553
erco@maipr.com
www.maipr.com

A twist for a new light distribution
The key to the flexibility of Eclipse is the modular design of the complete system. The optics, in the form of lens units, can be replaced with one hand without tools and exchanged for optics with different characteristics. The secure twist-and-lock interface between the luminaire body and lens unit is continued as an accessory connection at the front of the lens units and accessories. In this way, lens units and up to three accessories can be combined– providing almost unlimited combinations for modifying the light distribution, the spectral composition of the light and for improved visual comfort.

With the appropriate lens units as accessories, the user can thus transform a narrow beam Eclipse spotlight with spot light distribution into a floodlight with wide flood distribution „with the flick of a wrist" – or else into wide flood, extra wide flood, oval flood, oval wide flood or wallwash light distribution. ERCO speciality features such as the ultra-compact Zoom spot and Zoom oval optics can also be retrofitted or exchanged in this way, as can the precise, high lumen-output and particularly user friendly new framing attachment for crisp-edged projections.

Lenses modulate the characteristic
Eclipse lens units already offer an unusually wide range of different beam characteristics with symmetric, oval and asymmetric light beams. However, ERCO's accessory lenses for Eclipse provide additional scope for matching the light beam to the lighting task: the Softening Lens spreads the beam slightly and creates a softer gradient with perfect uniformity at the centre. The Sculpture Lens on the other hand is a familiar and highly proven tool particularly in the field of museum lighting – it spreads the light beam oval cross-section for illuminating the typical proportions of sculptures. The Sculpture Lens is freely rotatable in order to match the illumination to elongated objects or target surfaces in any position.

Filters modify the light spectrum
The spectral composition of light not only has an atmospheric effect in a room in the form of a warm or cool light colour but also strongly influences the colour perception of illuminated materials, surfaces and objects. ERCO offers no less than six different LED spectra from 2700K to 4000K for Eclipse, thus already covering many specific lighting requirements. For fine tuning purposes, the four conversion filters Cold Filter, Cold Filter Plus, Warm Filter and Warm Filter Plus generate 24 additional colour nuances from these six LED spectra. The Blue Light Filter absorbs blue components in the spectrum and thus reduces the damage factor to an absolute minimum for especially sensitive exhibits or high illuminance levels. With this filter and the additional Skin Tone and Food special filters, no wishes remain unfulfilled in terms of matching the spectrum.

More visual comfort through anti-glare elements
Eclipse lens units feature exceptional visual comfort even in their standard state of configuration due to their minimal luminance at the light aperture. For special applications in display lighting, for example high-contrast effects in very dark surroundings, professionals often require additional anti-glare elements that can be fitted to Eclipse as accessories. These elements include snoots, i.e. additional anti-glare cylinders in suitable shapes for spotlights and wallwashers, as well as honeycomb louvres and barn doors. In addition to the standard 4-fold model, the special 8-fold barn doors for Eclipse are a boon: they are highly variable and can also be closed, completely light-tight, on the sides.

It is no coincidence that the design and functionality of Eclipse, as well as the scope of its accessories, are reminiscent of other precision optical products such as professional camera systems. Just as photographers equip themselves with an extensive camera system for any shooting situation, lighting designers with Eclipse have an extremely high-performance, flexible and future-proof toolbox that sets no limits in the creative use of light.

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Images

A prime feature of the new Eclipse spotlights is the option of using modular photometric accessories to adapt parameters such as light distribution, light colour and visual comfort to the specific lighting task precisely, simply and also reversibly.

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Light control in the digital age: from simple dimming via a rotary control on the luminaire to the wireless programming of light scenes with Casambi Bluetooth or Zigbee. Eclipse provides a wide range of connectivity solutions, including wireless connection to a DALI control.

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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.

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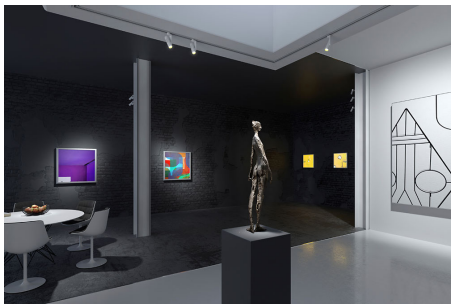
Visualization: Electric Gobo



Due to the modular design of the system, Eclipse 48V is also ideal for complex lighting scenes: with components ranging from precise spot as accentuation to uniform wallwashing and crisply edged projections. In this way, different works of art can be individually displayed, for example. The appearance of the lighting installation itself remains discreet and minimalist.

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In exclusive retail projects, whether fashion, luxury goods or jewellery, Eclipse 48V combined with Minirail 48V track ensures maximum effect with minimum space requirements. Thanks to the similarly miniaturised Minirail adapters, the spotlights can form compact clusters if there is a need for higher luminous fluxes.

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Visualization: Electric Gobo

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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