Program 2020

Indoor luminaires
Outdoor luminaires

Work
Culture
Community
Public
Contemplation
Living
Shop
Hospitality
Each room requires its own lighting concept that is right for the users, the architecture, and the interior. At ERCO, long-standing experience with design-oriented architectural and object lighting within the various architectural segments comes together with state of the art LED technology. We have detailed the individual benefits of ERCO LED lighting tools for modern office, retail, museum, airport, and facade lighting on the following pages.

As part of this, we respond to your most important questions concerning lighting with LED within the context of our essential fields of application.

More at: www.erco.com/planning-light
Quickly find the right LED rating using the selection guide at the back of the catalogue.
## Indoors

**Track and light structures**

12V track and light structures

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### ERCO track and singlets

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- **64 70**
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**Indoors Track and light structures**

- Low height
- Recessed, surface-mounted or pendant mounting possible
- Proven infrastructure
- Indirect lighting available
- Suspension spacing of up to 12ft
- Based on the proven ERCO track

**Luminaires for track**

- ERCO track and singlets
- ERCO Hi-trac track and light structure

**Spotlights, floodlights and wallwashers for 120V track**

- **Oseris**
- **Parscan**
- **Pollux**

**Luminaires**

- **Oseris**
  - Ideal for narrow ceiling channels
  - Ball joint for easy alignment
  - Zoom spotlights available
  - Shop, Culture

- **Parscan**
  - Ideal for ceiling channels and singlets
  - Zoom spotlights available
  - Elegant design due to integrated control gear
  - Culture, Shop

- **Pollux**
  - Compact luminaire dimensions
  - Contour spotlights and zoom spotlights available
  - Culture, Hospitality

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2 ERCO Program 2020
Luminaires for track

Spotlights, floodlights and wallwashers for 120V track

Optec
- Contour spotlights and zoom spotlights available
- Tiltable through 270°
- Shop, Culture

Light Board
- Elegant design due to integrated control gear
- Suitable for singlets
- Culture, Shop

Opton
- Flat luminaire design for low rooms
- Shop

Cantax
- Simple, concise design
- Hospitality, Shop

Pantrac
- Extremely uniform wallwashing
- Large luminaire spacing
- Simple handling
- Culture, Community

Downlights and wallwashers for 120V track

Jilly
- For office workstation lighting as of UGR<16
- Slidable downlights for flexible office lighting
- High visual comfort
- Work, Community

Compar
- For office workstation lighting as of UGR<16
- Slidable downlights for flexible office lighting
- Four light distributions
- Work, Community
Recessed spotlights and floodlights

Recessed spotlights and recessed floodlights

Quintessence round 152
Quintessence square 158

Tiltable through 40°
Five light distributions
Available with recessed luminaire head
Shop, Culture

2W/200lm – 18W/2475lm
2W/200lm – 18W/2475lm

Downlights, wallwashers and directional luminaires

Quintessence round 174
Quintessence square 180
Quintessence Pinhole 186

Downlights, wallwashers and directional luminaires
Downlights, wallwashers and directional luminaires
Directional spotlight tiltable through 30°
Crystalline, Crescendo,
Palatino, Palatino II
Very high visual comfort due to low brightness technology
Very high visual comfort due to low brightness technology
Almost invisible light source
Community, Work
Community, Work
Precise accenting
Shop
Recessed luminaires

**Downlights, wallwashers and directional luminaires**

Atrium double focus 192

- Downlights and wallwashers
- Ideal for very high rooms and inclined ceilings
- Very high visual comfort
- Community

Compar linear 200

- Downlights and wallwashers with extremely narrow ceiling detail
- For office workstation lighting as of UGR<16
- Five light distributions
- Community, Work

**Grazing light wallwashers**

Lightgap 206

- Impressively uniform grazing light
- Invisible light source
- Continuous luminaire configurations possible
- Hospitality, Community
Surface-mounted luminaires

Surface-mounted downlights

Atrium double focus

Ideal for high and very high rooms

Large lumen packages for high illuminances

General lighting with large luminaire spacing

Community, Contemplation

24W/2380lm – 76W/9840lm

Compar linear

For office workstation lighting as of UGR<16

Slender profile

Four light distributions

Work

Pendant luminaires

Pendant downlights

Atrium double focus

Indirect lighting available

Ideal for high and very high rooms

Very high visual comfort

Community, Contemplation

24W/2380lm – 114W/14760lm
Recessed floor luminaires

Grazing light wallwashers and directional luminaires

Nadir IP67 round 248
Nadir IP67 square 254

Impressive grazing light
Suitable for wet location (IP67)
Discreet stainless steel framing
Hospitality, Community

3W/320lm – 3W/450lm 3W/320lm – 3W/450lm
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- **2W/210lm – 6W/825lm**
- **8W/840lm – 18W/2475lm**
- **4W/400lm – 36W/4950lm**
- **2W/210lm – 96W/13200lm**
- **8W/840lm – 18W/2475lm**
- **2W/210lm – 96W/13200lm**
- **24W/2520lm – 48W/6600lm**

**Wallwashers and ceiling-washers**

- **High visual comfort**
- **Small luminaire dimensions**
- **Five sizes**
- **Extremely uniform wall/ceiling-washlighting**
- **Large luminaire spacing**

**Hospitality, Living**

**Hospitality, Culture**

**Community, Public, Culture**

**Hospitality, Public, Community, Contemplation**

**Public, Community, Contemplation**
Facade luminaires

Ceiling washlights, floor washlights and walklights

Lightscan 324
Kubus 330
Axis Walklight 336

Ceiling washlighting
Wide and deep beam light distributions available
Large luminaire spacing
Community
Floor and facade lighting available
Wide and deep beam light distributions available
High visual comfort
Accessories for wall recessing available
Discreet facade detail
Hospitality, Work
Ideal for steps and paths
Hospitality, Public

Visor 342
Lightmark 348
Cylinder 354

Wide and deep beam light distributions available
High visual comfort
Hospitality, Public
Wide and deep beam light distributions available
High visual comfort
Hospitality, Public
Available as floor and facade lighting
Impressive grazing light
Hospitality, Work

Focalflood 360
Orientation luminaires 460

Impressive grazing light
Pivotal through 135°
Hospitality, Culture
Floor washlights available
Small luminaire dimensions
Hospitality, Community
### Bollard luminaires

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**Floor washlights**

<table>
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<td></td>
<td>6W/630lm</td>
<td>100% Dark Sky compliant</td>
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<td>8W/840lm</td>
<td>Grazing light along the luminaire</td>
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<td>12W/1450lm</td>
<td>Grazing light along the luminaire</td>
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**Castor**
- Available with 180° or 360° light distribution
- 100% Dark Sky compliant
- Four sizes

**Midipoll**
- 360° light distribution
- 100% Dark Sky compliant
- Grazing light along the luminaire

**Kubus**
- Wide and deep beam light distributions available
- 100% Dark Sky compliant
- Grazing light along the luminaire

**Lightmark**
- Wide and deep beam light distributions available
- Light emission opening to the front

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**ERCO Program 2020**

[10] ERCO Program 2020
## Recessed luminaires

**Quintessence round**
- **2W/210lm** – **24W/3300lm**
- **8W/840lm** – **32W/4400lm**

### Specifications
- **Five light distributions**
- **Very high visual comfort**
- **Hospitality**

**Compact**
- **16W/1680lm** – **24W/3300lm**
- **48W/5040lm** – **96W/13200lm**

### Specifications
- **Four sizes**
- **High visual comfort**
- **Hospitality**

## Surface-mounted luminaires

**Compact**
- **16W/1680lm** – **24W/3300lm**
- **48W/5040lm** – **96W/13200lm**

### Specifications
- **High visual comfort**
- **Large luminaire spacing**
- **Hospitality, Community**

**Lightscan**
- **Downlights in three sizes**
- **Large lumen packages for high illuminances**
- **Flat luminaire design**
- **Hospitality, Community**
In-ground luminaires

*Wallwashers, uplights and directional luminaires*

- **Tesis round** (444)
  - Pivotable directional luminaires for accent lighting
  - High uniformity with wallwashing
  - Six light distributions

- **Tesis square** (452)
  - Pivotable directional luminaires for accent lighting
  - High uniformity with wallwashing
  - Six light distributions

- **Site** (466)
  - Impressive grazing light
  - Very high visual comfort
  - Large luminaire spacing
  - Public, Hospitality

*Orientation luminaires and floor washlights*

- **Orientation luminaires** (460)
  - Floor washlights available
  - Small luminaire dimensions
  - Blue LEDs available
  - Hospitality, Community
Kasmin Gallery, New York. 
Architecture: studioMDA, New York. 
Photography: Roland Halbe, Stuttgart.

Ruby City, San Antonio. 
Atrium with higher output

For higher illuminance levels, Atrium surface-mounted ceiling luminaires and pendant luminaires are available in all sizes with a higher output. The Flood and Wide Flood light distributions achieve a luminous flux that is 35% higher.

www.erco.com/atrium-df-s
www.erco.com/atrium-df-pendant
Available in two sizes

Very high visual comfort

Ideal for high rooms of 16-22 ft
Compar downlights now with 15° or 30° light distribution

The new light distributions of Compar recessed ceiling luminaires are particularly suitable for high rooms. The narrow light distribution of 15° or 30° provides a very high level of visual comfort to achieve attractive ambient lighting in high representative rooms. In addition, the 15° spot light distribution in high-traffic areas such as corridors or foyers enables the support of path lighting with a linear lighting effect.

In shops, Compar downlights with spot light distribution set strong accents on product tables.

www.erco.com/compar

The four sizes of Compar are shown here in actual size.
Very high visual comfort

Ideal for high rooms of up to 60ft

Available in four sizes
Six white light spectra available

In order to optimally display different material colors or to create a special light atmosphere in the room, all indoor luminaires in the ERCO range with high-power LEDs are available in six white light spectra. The color temperature ranges from 2700K to 4000K. For particularly good color rendering in museums, a version with CRI 97 for 3000K is also available. There is also a version with 4000K CRI 82 for combining with daylight and the requirement for very high luminous efficacy of up to 138lm/W.

Upon request, the outdoor luminaires are also available in the four light colors 2700K CRI 92, 3000K CRI 97, 3500K CRI 92 and 4000K CRI 92.
2700K CRI 92
- Very warm light color
- Suitable for warm-toned materials
- Ideal for restaurants, hotels and living areas

3000K CRI 92
- Warm white light color
- High luminous efficacy
- Universal use

3000K CRI 97
- Warm white light color
- High color rendering
- Ideal for museums and galleries

3500K CRI 92
- Neutral white light color
- High color rendering
- Ideal for shops

4000K CRI 92
- Neutral white light color
- Very high luminous efficacy
- Suitable for objects with cool colors

4000K CRI 92
- Neutral white light color
- Harmonious color ratio with incidence of daylight
- Suitable for merchandise with cool color tones
Wireless control of ERCO luminaires with Casambi Bluetooth
Individually switching and dimming luminaires, setting up light scenes and integrating sensors — all made possible by the wireless method of control offered by ERCO in the form of Bluetooth-enabled luminaires. This creates convenience and efficiency for technical and design planners: luminaires can be switched and dimmed seamlessly via smart device, while customized light scenes can be set up and easily updated when needed, all while maintaining thoroughly secure system control. Planning data for the new luminaires with Casambi Bluetooth control are available to you on request.

Ease of use
ERCO luminaires with Casambi Bluetooth allow users to control luminaires directly from their smart devices. All the user needs to do is download the Casambi app to their iOS or Android device. With intuitive gesture control, the software has been designed to streamline commissioning and future programming changes. Once downloaded, fixtures self-identify and can be labeled with a description and picture.

The future of controls
ERCO Casambi Bluetooth

Gallery function
The gallery function enables individual luminaires or luminaire groups to be controlled via a self-photographed image of the room. Users simply take photos of a space, or upload a floor plan to the app, and mark the positions of the luminaires. The images then appear in a gallery in the app, and users simply tap the one they want to control.
Simple integration
ERCO offers two options for bluetooth-enabled luminaires; integrated into the fixture, or as an accessory, which would allow for updating pre-existing fixtures with a module.

Integrated or module
Optec is the first luminaire of all track families to have a Bluetooth chip integrated directly into the fixture.

With the option of separate Casambi modules as accessories, this allows for any luminaire to be operated by Bluetooth.

Daylight sensor
ERCO luminaires with Casambi Bluetooth allow dimming of luminaires when daylight is available, to achieve maximum lighting quality and reduced energy consumption. Available as standalone or integrated.

Remote access
ERCO luminaires with Casambi Bluetooth allow users to control devices remotely, while still remaining highly secure, with password access.

Scalability with Site
With Bluetooth technology, you can manage larger installations. The feature allows you to control multiple networks simultaneously, create site-wide scenes and site-wide timers.

Wireless switches
While light switches aren’t required, they can be easily added if desired, with either traditional wall-mounted switches or portable wireless options.

Motion sensor
Motion sensors save energy as lighting is only on when it is actually needed.

A robust mesh network
ERCO Bluetooth low energy provides a mesh network where all the intelligence of the system is replicated in every node and, in such a way, creates a system with no single points of failure.

Do you have any further requirements? Simply contact us!

www.erco.com/individual
ERCO individual

Lighting tools to suit your requirements

Are you looking for a particular lighting tool that you cannot find in the current range? We offer you extensive options for individualizing standard products in the form of "ERCO individual", as well as providing support for the development of sophisticated luminaires.

- Additional spectra and light colors for outdoors such as 2700K CRI 92, 3000K CRI 97, 3500K CRI 92 or 4000K CRI 92
- Alternative LEDs, for instance Chip-on-Board LEDs with ERCO developed photometrics
- Over 10,000 additional housing colors in RAL and NCS color systems and individual adaptation to color samples
- Individual mounting solutions, such as other track adapters or individual clamps, holders and installation solutions
- Plug systems pre-assembled for quick wiring
- Extended control possibilities, such as Lutron, DMX or 0–10V
- Project-related new development
Optec framing projector
High-powered framing projector for fascinating effects – now with 18W

Skim Downlight for track
Downlight as flexible as spotlights for modern work offices

Atrium Double focus pendant
Sophisticated light for high rooms with optional uplight

Gimbal recessed spotlight
Recessed spotlight with high-precision swivel mechanism

Lucy task light
A new model for digital working light

Pantrac wall mount
A ceiling washlight for beautiful uniform uplighting

Do you have any further requirements? Simply contact us!
www.erco.com/individual

Take advantage of special products we have realized
The lighting of office buildings encompasses more than the workplace and meeting rooms – it also includes the path and facade lighting outdoors. Concentrated work demands pleasant work surroundings with high visual comfort. As well as appropriate illuminance levels, this also includes optimum glare control and the balancing effect of vertical illuminance. A particular strength of ERCO is its downlights for track – a flexible and economical alternative to classic recessed luminaires.

Find out more: www.erco.com/work

Outdoors: Representing with light

Facades, entrances and reception areas are the first opportunities for companies to present their corporate identity via the office architecture. Light sculpts the architecture and subtly communicates attributes such as openness and transparency.
Vertical light for the first impression

Wallwashing communicates a welcoming gesture in the reception area. Bright walls lend the room depth and create a high impression of brightness. When wallwashed, foyers with glazed facades for example can be viewed from the outside and communicate a sense of openness and transparency to customers, employees and suppliers.

Illuminating meeting rooms

Direct, personal discussions enable efficient agreement processes in daily work. For a harmonious impression during discussions at conference tables or during video conferences, good lighting is indispensable both for discussion participants and the room itself.
Flexible workstation lighting

Modern companies work with changing teams and methods. Downlights that can be moved in the track are the ideal solution for a flexible office infrastructure.
Integrated office lighting

A zoned, ceiling-integrated lighting concept with especially small luminaires achieves a calm ceiling appearance. Downlights with excellent glare control and oval wide flood light distributions support office activities and provide uniform general light.

Illuminating circulation routes

Good orientation improves the comprehension of a building and therefore the levels of user acceptance. Luminaires with linear oval flood light distributions are ideal for the efficient lighting of corridors and circulation routes.
Museum lighting begins with accentuating light for outdoor sculptures and extends to suitable lighting tools for sensitive exhibits in the exhibition spaces. Lighting design options in museums and galleries are, however, not merely restricted to the presentation of works of art. We show you how light is able to upgrade exhibition spaces to become qualitative cultural brands – ranging from sculpture gardens to the shop and café.

Find out more: www.erco.com/culture

Outdoors: Welcoming with light

At night, light transforms museums into urban landmarks by rendering its facade and outdoor exhibits visible. Accents in the foreground adopt the role of orientation points from afar.
Making art an experience

Light renders art perceivable for visitors. Spotlights with different light distributions are ideal for accentuating art.

*Luminaires for track*  
p.76

*Recessed spotlights, floodlights and wallwashers*  
p.146

*Projectors, floodlights and wallwashers*  
p.260

*In-ground luminaires*  
p.434
Crisp-edged illumination

Ideally illuminating exhibits of different sizes is their specialty: contour and zoom spotlights enable adjustable light distributions.

Displaying art from large distances

High lumen-output luminaires are needed to illuminate sculptures and art from large distances in high rooms. ERCO offers reliable and efficient lighting tools.
Uniformly illuminating art

Wallwashing with high uniformity is suitable for illuminating works of art in museums, lighting shelving in sales areas and creating a wide and prestigious spatial impression in foyers.

Attractive light for shops and cafés

Museum shops and cafés are an important source of earnings and also contribute to establishing the brand of the cultural institution. Ideal lighting is achieved with a combination of wallwashing and accents.
Community – indoor and outdoor luminaires for public buildings

Lighting for large facades, high foyers and multifunctional conference rooms are the focus of lighting design. Buildings for public administration, educational facilities, theatres, congress centers, railway stations and airports reflect the needs and reality of a society. Creating new features or maintaining existing structures provides both opportunities and responsibilities for planners and designers. Care and quality in all planning aspects are decisive. Light assumes much more than just functional tasks – it also determines the character and representative symbolic force of public buildings.

www.erco.com/community

Lighting facades

Light plays a crucial role when providing public buildings with a prestigious identity. It emphasizes the architecture in its urban context. ERCO floodlights impressively showcase large facades.

![Image of a building with floodlights illuminating it]
Structuring high rooms with light

Clear and perception-oriented lighting concepts make public buildings user-friendly. Part of this is to define and structure large rooms with the use of zoned lighting. Luminaires with high lumen packages provide the required illuminance on the target surface.
Light provides orientation

Finding your way about in large public buildings is a major challenge. To enable visitors to move quickly around buildings, circulation routes and intersections should be emphasized with vertical lighting.
Invitingly illuminating buildings for circulation

Railway stations and airports are places of transit, often with a cooler atmosphere. Light helps to combine functionality and aesthetics and increase the quality of stay for users. A planar illuminated ceiling for example communicates a friendly environment.

Light for a wide spatial impression in halls

In multifunctional rooms and event halls the atmosphere can be varied with different components for general lighting, vertical lighting and accent lighting. Suitable lighting tools are recessed luminaires with high illuminance levels and very good glare control.
Parks, public places, monuments and facades characterize the face of a city at night with their illumination. Their light provides orientation for various user groups, contributes to safety, enhances spatial details through accentuation and creates atmosphere. ERCO lighting tools for outdoor areas are designed to define urban spaces during nocturnal hours with highly efficient LED light, whilst receding into the background themselves thanks to their outstanding glare control.

Find out more: www.erco.com/public

Creating orientation points with light

Memorials and bridges form important elements for orientation in urban space. Presenting them impressively in turn enables good orientation. Projectors with accent light set strong contrasts in the night-time context.
Effective illumination of landmarks

The attractive illumination of historical buildings, memorials and special objects attracts attention and also serves to promote tourism. Wallwashing is one of the most suitable methods of lighting for displaying such attractions.

Promoting nocturnal life with light

Glare along with light that is too bright, negatively affect the nighttime atmosphere. Frequently, low illuminances of about 1 fc on squares are sufficient for good orientation. Dimmable ERCO luminaires confidently take on this task.
Magical light for paths and bridges

The qualitative illumination of paths extends beyond functional aspects. Facade luminaires with narrow light distribution create focal points and transform paths into attractive locations where we enjoy staying.

Facade luminaires p.316
Bollard luminaires p.366
Light for urban life

Giving passers-by a feeling of safety and security in urban environments is one of the central guiding principles of master plans. Long wall surfaces, columns and trees can be floodlit with ERCO projectors with high levels of uniformity.

Sustainably illuminating public buildings

ERCO’s high-precision optics are free of spill light and are therefore ideal for efficiently illuminating facades with various light distributions.
Versatile luminaires from ERCO are ideal for emphasizing the facades of religious buildings in towns and cities and for atmospherically presenting contemplative spaces. In all religions, light is not only a design tool for architecture, but also a distinctive symbol of the divine. Light in sacred places creates a contemplative atmosphere for meetings between believers.

Whether in churches, mosques, temples or synagogues – light accents help to guide the view onto the essentials.

www.erco.com/contemplation

Outdoors: emphasizing symbolic power

Sacred architecture translates the beliefs and importance of a religion into a physical structure – light enhances this message. The scale of monumental buildings can be emphasized with ERCO projectors, the precise light distributions of which effectively highlight facades.
Strong accent light

Religious buildings touch people through their contemplative spatial atmosphere. ERCO luminaires are integrated into the architecture, adopting a discreet role in favor of their lighting effect: accent light helps to direct attention to the essential elements in the space.

Luminaires for track
p. 76

Recessed spot-lights, flood-lights and wallwashers
p. 146
Light from a large distance

Light accents create hierarchies of perception. To illuminate precisely from a large distance, luminaires with accurately defined narrow light beams, without spill light, are required.

Luminaires for track
p.76
Light for visual orientation

Monumental rooms appear even wider and brighter due to uniform vertical light. Luminaires with large lumen packages are particularly suitable for this purpose.

A ceiling of light

Religious buildings convey dignity and grandeur. The narrow light distribution of ceiling washlights is ideal for the planar illumination of ceilings, making room heights even more impressive.
Living – indoor and outdoor luminaires for living spaces

Ranging from living rooms and dining rooms to gardens with greenery and paths, a cozy atmosphere can be created with light. ERCO lighting solutions blend harmoniously into different surroundings. Wallwashers and downlights with compact dimensions create sufficient space for living, even in small rooms. Light scenes combine ambient lighting with accents and architectural lighting and decorative luminaires harmonize to create light for well-being.

www.erco.com/living

Prestigiously illuminating facades

Grazing light directed upwards emphasizes large dimensions and effectively highlights facade structures. Small luminaire dimensions integrate perfectly into any architecture.

Projectors, floodlights and wallwashers p.260
In-ground luminaires p.434
Light for paths

Illuminated paths and driveways provide orientation and safety. Bollard luminaires with light distributions through 360° provide efficient and inviting lighting in domestic outdoor spaces.

Attractively illuminating outdoor areas

Light transforms gardens and patios into an experience in the evening hours. ERCO luminaires with narrow light distributions create focal points for high-quality environments at night.
Correctly illuminating living spaces

Uniform wallwashing creates a wide impression of the room. ERCO wallwashers achieve impressive and efficient general lighting due to large luminaire spacing.

Luminaires for track
p.76
Light for fine food and drinks

ERCO attaches great importance to very good color rendering and high brilliance. This is particularly important when illuminating kitchens and dining rooms to give food an appetizing appearance.

Recessed spot-lights, flood-lights and wallwashers
p.146

Recessed luminaires
p.164

Recessed luminaires
p.164
Impressive facade lighting and shop window lighting as well as attractive product displays contribute to the success of shops. Light not only showcases the products, but also determines the atmosphere, and therefore strengthens the direct shopping experience. Light is presented in seductive or tempting ways according to the season to arouse new emotions with regard to merchandise. The unique presentation of the space and its products with the use of light provides an essential component in its dialogue with customers.

www.erco.com/shop

Creating a presence outdoors

Illuminated facades create attention and separate the important from the unimportant. Grazing light for example provides the exteriors of shops with a prestigious appearance.

Attracting the eye to the shop window

Shop windows create attention and curiosity. With high-contrast accent lighting you can effectively highlight merchandise and thus direct the attention of customers to your shop.

www.erco.com/shop
Leading customers into the shop

Light attracts. Lighting is therefore an indispensable medium for directing attention to the shop. Vertical lighting provides an ideal insight into the retail space and guides customers into your shop.

Recessed luminaires
p. 164

Luminaires for track
p. 76

ERCOT Program 2020
Creating shopping experiences with light

By using various illuminance levels and light distributions a visual hierarchy is created, products are placed in the foreground and customers are specifically guided through the store.
Promoting customer loyalty

Individual advice and consultation is the strength of the over-the-counter retail trade. In such cases, light not only facilitates this communication but also emphasizes the brand message. Pleasant, uniform lighting at face height is a part of this.
Welcoming guests with light begins with exterior path and facade lighting and extends to a private ambience at the table or in the hotel room. Whether it’s boutique hotels, themed restaurants or temporary bars: every concept applied to gastronomy requires a scenic frame to carry and communicate the relevant theme. ERCO provides architectural lighting solutions with a diversity of scenographic options for room situations that convey enjoyment and pleasure.

Find out more: www.erco.com/hospitality

Hospitality – indoor and outdoor luminaires for hotels and restaurants

Illuminating facades and paths

Effective lighting concepts promote the corporate identity of a hotel or restaurant. Elegantly illuminated paths and routes and accentuated facades create a high quality appeal and a warm welcome for your guests.
Welcoming with light

Simple orientation and a pleasant atmosphere form the basis for the first encounter. Vertical lighting helps to intuitively understand the function of a room and communicates an open sense of welcome.
Light for high rooms

Open plan designed hotel foyers usually have high ceilings. In order to generate sufficient light on the target surface from large distances, high illuminances and point-precise light beams are required. ERCO luminaires are thus ideal for high rooms.
Grazing light for relaxation oases

Grazing light conveys a feel-good atmosphere, and is therefore ideal for relaxation areas and restaurants. Due to the luminaire’s close distance to the wall, the light emission opening is almost invisible and therefore glare-free.

Enjoying food in good light

Whether it’s local cuisine or inspired by far away countries – brilliance significantly contributes to the enjoyment of fine foods. ERCO luminaires with precise, narrow light beams create luster with high visual comfort for your guests.

Luminaires for track p.76
Recessed spot-lights, flood-lights and wallwashers p.146
Pendant luminaires p.230
Variable.
ERCO track and light structures

Since the invention of the incandescent lamp, no product has revolutionized lighting design as much as the track. It is only the track that releases light and luminaires from the constraints of fixed installation. It forms the basis for variable, flexible lighting design that can be oriented to the changing design and use of a room. ERCO offers track for 120V mains voltage. The range includes appropriate light structures for indirect lighting and higher load-bearing requirements.

Overview of all ranges: from page 62
www.erco.com/track-lighting/en_us
ERCO track and light structures Application examples

Indirect lighting
- Brightening of the ceiling for a higher spatial impression
- Available in various light colors
- High load capacity, even with wide suspensions

Products used:
Hi-trac track page 70

A proven system
- Wire suspension for difficult ceiling situations
- Future-proof: new luminaires also fit into older ERCO tracks and vice versa
- Decorative hooks or singlets available as accessories

Products used:
ERCO track page 64

Flexibly illuminated exhibitions
- Luminaires with different light distributions can be used
- Rapid repositioning of luminaires for temporary exhibitions
- On-board Dim for simple dimming by hand directly on the luminaire

Products used:
ERCO track page 64
ERCO track and light structures Application examples

These lighting tools solve your lighting tasks

You need track with spacing of up to 12ft?

Looking for track to brighten the ceiling?

Hi-trac track for wide spacing and higher loads

- Spacing possible up to 12ft
- Loads of up to 84lbs per meter permissible

Hi-trac light structure for indirect lighting

- Diffuse light brightens the ceiling
- Seamless band of light with continuous-row arrangement
- Ideal for office workstation lighting
You’d like to install spotlights without track?

Singlets for individual mounting points

- Compact detail for installing of spotlights
- Suitable for all luminaires with 2-circuit adapters
- Recessed and surface-mounted version available
Track for all applications
ERCO track with high-voltage supply energy for conventional spotlights and other luminaires operated via adapters or sockets in the track. Special Hi-trac track is suitable for higher load requirements.

Versatile infrastructure
ERCO track is available as either recessed or surface-mounted variants, with mounting accessories for ceiling plates, for suspending via pendant tubes or wires and as point outlets.

Simple mounting
Easy to push out punched holes every 15 3/4” enable simple and quick mounting of the track.

Connectivity
ERCO track provides the universal infrastructure for different types of control:

- Wireless via
  - Casambi Bluetooth on request

- Wired via
  - Switchable
  - Trailing edge dimmable

By hand
- On-board Dim via rotary control on the luminaire
Proven and future-proof

Track and light structures from ERCO have been in use around the globe for decades. A great plus: new spotlights mechanically fit into existing installations, and luminaires already in operation can be used in new installations. This also applies to several luminaires from other manufacturers.

Spacing of up to 12ft

Hi-trac provides a structurally very powerful infrastructure with widely spaced suspension points—also perfect for the diffuse illumination of ceilings.

Extending standards with accessories

With decorative hooks and adapters for pendant luminaires, you can adapt the track infrastructure to your individual needs.

ERCO individual

You have a colored ceiling? With our “ERCO individual” service we offer you extensive options to customize your track—e.g., coatings in your desired color.

www.erco.com/individual

Straight ahead and around the corner

Corner-, cross-, T- and flexible connectors enable track installations for diverse geometries.

Products with these features can be found on the next page.
Indoors

Track and light structures

120V track and light structures

ERCO track and singlets

Low height
Recessed, surface-mounted or pendant mounting possible
Proven infrastructure

ERCO Hi-trac track and light structure
Indirect lighting available
Suspension spacing of up to 12 ft
Based on the proven ERCO track
Culture, Community, Work

ERCO track and singlets – Supporting role

ERCO track deliver the energy required to light up rooms
ERCO track is more than a power source. The system provides a flexible infrastructure for luminaires, that can move with your changing requirements. Track are the anchor for your lighting concept and are primarily designed for mounting on ceilings or walls, whereas the flanged track is designed for suspended ceilings. Individual track lengths can be connected with each other so as to form rectangular and other shapes.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 Aluminum profile
- White (RAL9002), black or silver
- Powder-coated or anodized
- Track mounting surface with easy to remove knockouts at 15 3/4" (0.4m) intervals
- Flanged track: flanges for ceiling panels

2 Contacts
- 4 isolated copper conductors
- 2 separately switchable circuits of 20A each

3 Earth conductor

Variants on request
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/erco-track
Gap-free mounting using connection components
The track and light structures can be connected to form straight lines with gap-free couplings or assembled to make right-angled structures with connecting parts.

Various mounting methods
The system design of the track and light structures enables different types of mounting: recessed, surface-mounted, with mounting accessories for ceiling panels or for suspension with wires or pendant tubes.

Special characteristics
Continuous line arrangements are possible
Accessory for mounting variants

Various mounting methods
Various housing colors
Various construction sizes
Easy installation
Various mounting methods
ERCO 2-circuit track

**Construction size**

- 4ft: 8.0 ft, 2438 mm, 33.5 mm, 1 5/16”, 1 3/8”, 34 mm
- 8ft: 8.0 ft, 2438 mm, 33.5 mm, 1 5/16”, 1 3/8”, 34 mm

**Color (housing)**

- White
- Silver
- Black
- 10,000 colors *

---

ERCO 2-circuit flanged track

**Construction size**

- 8ft: 8.0 ft, 2438 mm, 33.5 mm, 1 5/16”, 1 3/8”, 34 mm

**Color (housing)**

- White
- Silver
- Black
- 10,000 colors *

**Accessories**

- Connection components
- Suspension equipment
- Turning adapter
- Mounting components

---

68  ERCO Program 2020
ERCO 1-circuit singlet

Construction size

Control

Color (housing)

Switchable

White

10,000 colors *

Black

Switchable

White

10,000 colors *

Black

* available on request

Article numbers and planning data:
www.erco.com/011280-us
Design and application:
www.erco.com/erco-track
ERCO Hi-trac track and light structures – Carrying it off

Hi-trac combines the flexible options of a track with the visual comfort of indirect lighting.

The Hi-trac light structure is a heavy-duty system and allows very wide spacing between the suspensions. Hi-trac is an aluminum extrusion and available with integrated ERCO track in two versions: either with an empty upper compartment for cables or as an indirect luminaire. Hi-trac enables the combination of indirect lighting with accent light from the track.
ERCO Hi-trac track and light structures

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 Panel profile
- White (RAL9002) or silver
- Aluminum, powder-coated
- Track and panel profile to be assembled on site

2 Contact (lower part)
- 4 isolated copper conductors
- 2 separately switchable circuits of 20A each

3 Earth conductor

4 Fixture with LED module (on upper side)
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Cover: diffuser, polymer, textured
- Covered control gear: trailing edge dimmable
- or

Empty profile (upper side of track)
- For accommodating through-wiring or cover profiles

Variants on request
- Housing: 10,000 further colors
  Please contact your ERCO consultant.

Design and application:
www.erco.com/hi-trac
Focus on mounting and accessories
ERCO's nuanced and diversified product range has stood the test even in special situations – from planning complex light structures to high load requirements.

**Special characteristics**
- Accessory for mounting variants
- ERCO high-power LEDs
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Various construction sizes
- Different light colors
- Trailing edge dimmable

ERCO Hi-trac track and light structures
Hi-trac track and light structures

Construction size
- 8ft
- 12ft

Color (housing)
- White
- Silver
- 10,000 colors *

Accessories
- Connectors
- Cover profile
- Suspension equipment

74 ERCO Program 2020
Construction size

LED module
Maximum value at 4000K CRI 82

Light color (indirect)

Control
Trailing edge dimmable

Color (housing)
White
Silver
10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/012190-us
Design and application:
www.erco.com/hi-trac
Precise. Flexible.

Luminaires for track

Spotlights bring flexible light into the architecture: flexibility is their most important feature, both in terms of positioning on the track and alignment. Spotlights are perfect for accent lighting, general lighting, and wallwashing.

Overview of all ranges: from page 84
www.erco.com/spotlights/en_us
Luminaires for track Application examples

Light for flexible work
- Easily positioned downlights for changing office layouts
- High visual comfort for pleasant working light

Products used:
Jilly page 134

Light for communicating
- Accents create private zones
- Light only on the target area for high cost-effectiveness
- Maximum design freedom with up to ten light distributions

Products used:
Light Board (left) page 110
Optec (right) page 104

High-contrast illumination of art
- Different light distributions for exhibits of different sizes
- Simple replacement of light distributions when exhibitions change
- On-board Dim for easy dimming by hand directly on the luminaire

Products used:
Parscan page 92
Optec page 104
Luminaires for track Application examples

Improving the quality of stay
- Uniform wallwashing for a spacious impression
- Accent lighting creates a private atmosphere for dining
- Installation in singlets for a homogeneous ceiling appearance

Products used:
Light Board page 110

Designing exhibitions
- Individual adjustment of the light beam via contour and zoom spotlights
- Outstanding color rendering due to optimal LED spectra
- Black on black: the right housing color for the interior design

Products used:
Optec page 104
Creating sales arguments
- Precise light beams for brilliance on painted surfaces
- Flexible alignment of luminaires via track
- Different light distributions for accenting and flooding

Products used:
Parscan page 92
Opton page 116
Luminaires for track Application examples

These lighting tools solve your lighting tasks

You're looking for downlights that can be moved?

You need spotlights with adjustable light distribution?

Track downlights for standard-compliant office lighting

✓ Free positioning in the track
✓ Simple mounting without tools
✓ High visual comfort with UGR<19

Zoom spotlights for an impressive display

✓ Infinitely adjustable beam angles
✓ Zoom spot from 15° to 65° and zoom oval from 19° x 71° to 74° x 60°
✓ Ideal for changing exhibits or products
You'd like to illuminate from a distance of 30 ft?

Lens technology for efficient lighting of public buildings

- Large lumen packages for very high illuminances
- Efficient lighting technology for precise light beams
- General lighting, wallwashing and accentuation from high levels
Design freely – on ceilings, walls or beams. Mount and move spot-lights in the track without tools.

Change the light distribution yourself
Whatever you wish to illuminate, with ERCO you’ll find the right light distribution. If the interior changes, you can simply replace the light distribution—from accent lighting to wallwashing.

From small to large
You can find the right size and lumen package for any light effect and room height—from boutiques to museum foyers.

This distinguishes our luminaires for track

Infinitely variable light distribution
Zoom spotlights set small, medium or large accents. And they can be infinitely adjusted for any size in between.

Products with these features can be found on the next page.
Extending standards with accessories
Conversion filters, honeycomb anti-dazzle screens and snoots—adapt luminaires to special requirements.

Dimming on the luminaire
On-board dimming enables dimming using the rotary control directly on the luminaire.

Visual comfort in the office
Downlights for tracks are ideal in office applications thanks to their ability to be freely positioned. The resulting flexibility offers the perfect prerequisite for standard compliant lighting in offices.

Customize
"ERCO individual" offers extensive options to individualize product ranges: www.erco.com/individual

Light for art and art appreciation
LEDs with excellent quality of light show your art in optimal colors.

Connectivity
Switchable and trailing edge dimmable control gear options are available for the vast majority of products. We offer wireless control with Casambi Bluetooth via our "ERCO individual" service upon request.
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<tr>
<th>Indoors Luminaires for track</th>
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<td><strong>Indoors</strong></td>
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<td><strong>Spotlights, floodlights and wallwashers for 120V track</strong></td>
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<td><strong>Oseris</strong> 86</td>
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<td>Ideal for narrow ceiling channels</td>
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<td>Ball joint for easy alignment</td>
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<td>Zoom spotlights available</td>
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<td>Shop, Culture</td>
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<tr>
<td><strong>Parscan</strong> 92</td>
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<tr>
<td>Ideal for ceiling channels and singlets</td>
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<tr>
<td>Zoom spotlights available</td>
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<tr>
<td>Elegant design due to integrated control gear</td>
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<tr>
<td>Culture, Shop</td>
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<tr>
<td><strong>Pollux</strong> 98</td>
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<td>Compact luminaire dimensions</td>
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<tr>
<td>Contour spotlights and zoom spotlights available</td>
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<tr>
<td>Culture, Hospitality</td>
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<td><strong>Optec</strong> 104</td>
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<tr>
<td>Contour spotlights and zoom spotlights available</td>
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<td>Tiltable through 270°</td>
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<td>Shop, Culture</td>
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<td><strong>Light Board</strong> 110</td>
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<tr>
<td>Elegant design due to integrated control gear</td>
</tr>
<tr>
<td>Suitable for singlets</td>
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<tr>
<td>Culture, Shop</td>
</tr>
<tr>
<td><strong>Opton</strong> 116</td>
</tr>
<tr>
<td>Flat luminaire design for low rooms</td>
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<tr>
<td>Suitable for singlets</td>
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<tr>
<td>Shop</td>
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<td><strong>Cantax</strong> 122</td>
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<tr>
<td>Simple, concise design</td>
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<tr>
<td>Hospitality, Shop</td>
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<td><strong>Pantrac</strong> 128</td>
</tr>
<tr>
<td>Extremely uniform wallwashing</td>
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<tr>
<td>Large luminaire spacing</td>
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<tr>
<td>Culture, Community</td>
</tr>
</tbody>
</table>
**Luminaires for track**

**Downlights and wallwashers for 120V track**

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<thead>
<tr>
<th>Jilly</th>
<th>134</th>
<th>Compar</th>
<th>140</th>
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<tbody>
<tr>
<td>For office workstation lighting as of UGR&lt;16</td>
<td>For office workstation lighting as of UGR&lt;16</td>
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<tr>
<td>Slidable downlights for flexible office lighting</td>
<td>Slidable downlights for flexible office lighting</td>
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<tr>
<td>High visual comfort</td>
<td>Four light distributions</td>
<td></td>
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<tr>
<td>Work, Community</td>
<td>Work, Community</td>
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</tbody>
</table>

10W/1650lm – 10W/1830lm
12W/1190lm – 12W/1650lm

Oseris – The pivotal feature

Compact, versatile spotlights with characteristic semi-spherical joint.

Oseris is a brilliant concept designed to enrich the world of digital lighting—the swivel joint is bevelled flush against the semi-spherical light head for a sleek design. As well as enhancing the aesthetic appeal of the lighting tool, the idea behind this feature is to facilitate precise alignment—providing added value in tight spaces such as ceiling channels. Oseris spotlights feature Spheralit lenses that enable a wide range of light distributions, and with various sizes and wattages, achieve a variety of lumen packages to allow for differentiated lighting concepts with maximum freedom in design. The control gear is housed in the ERCO turning transadapter. Snoots are available as accessories for any situation requiring optimum glare control. This makes Oseris an exceptionally versatile lighting tool that lends itself for use in shops and museums as well as high-end residences: Compact, precise and efficient—Oseris evokes character and charm with striking features that add to the already impressive diversity of spotlight designs in the ERCO range.
Oseris for 2-circuit track

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: narrow spot, spot, flood, extra wide flood, oval flood or wallwash
   - Oval flood 360° rotation
   or
   Attachment (zoom spotlight)
   - Zoom lens, continuously focusable
   - Light distributions: zoom spot, zoom oval
   - Zoom oval 360° rotation

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3 Housing and bracket
   - White (RAL9002), black or silver
   - Cast aluminum, powder-coated
   - 0°-90° tilt
   - Bracket on turning transadapter rotatable through 360°
   - Internal wiring

4 Control gear
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

5 ERCO turning transadapter for 2-circuit track
   Variants on request
   - Housing: 10,000 further colors
   Please contact your ERCO consultant.

Design and application:
www.erco.com/oseris
Oval flood freely rotatable
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

Zoom spotlights
The light beam diameter can be infinitely adjusted from spot (15°) to wide flood (65°) by simply turning the lens. Zoom spotlights are particularly suitable for illuminating areas with changing exhibits and merchandise.

Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

Ideal for ceiling channels
The compact design and central pivot point predestine some luminaires for installation in ceiling channels.

Special characteristics
- Oval flood, freely rotatable
- Zoom spotlight
- Small luminaire dimensions
- Ideal for ceiling channels

ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors

Excellent thermal management
- EMC-optimized
- Various housing colors
- Various construction sizes

Trailing edge dimmable + On-board Dim
- Pivotable through 90°
- Accessory for maximum visual comfort
**Oseris** for 2-circuit track

**Construction size**

- Ø 2 7/8”
- Ø 4 9/16”

**LED module**

Maximum value at 4000K CRI 82

<table>
<thead>
<tr>
<th>LED module</th>
<th>6W/825lm</th>
<th>2W/275lm (Narrow spot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12W/1650lm</td>
<td>4W/550lm (Narrow spot)</td>
<td></td>
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</tbody>
</table>

**Light color**

- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 97
- 4000K CRI 92

**Light distribution**

- Spotlights
- Floodlights
- Narrow spot
- Wide flood
- Spot
- Extra wide flood
- Flood
- Oval flood
- Zoom spotlights
- Lens wallwashers
- Zoom spot
- Wallwash
- Zoom oval

**Control**

- Trailing edge dimmable + On-board Dim

**Color (housing)**

- White
- Silver
- Black
- 10,000 colors *

**Accessories**

- Lenses
- Cross-baffle
- Snoots
- Honeycomb anti-glare screen

---

90 ERCO Program 2020
Parscan – Systematic diversity

The elegant and universal spotlight system for museums and shops

Light, not luminaires—this is the foundation on which the sleek, cylindrical shape of Parscan is modelled. Different lighting solutions can be implemented efficiently thanks to precise and flexible photometrics. If the spotlight is directed vertically downwards as a downlight, the support bracket merges into the cylindrical shape. With its black housing, compact shape and a luminaire head that barely swivels out when rotated or tilted, the Parscan is also ideal for mounting in ceiling channels. The excellent glare control enhances visual comfort even in challenging lighting situations. Displaying a minimalist design, the luminaire appears unobtrusive in museums, shops or places of worship.
Parscan for 2-circuit track

Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spheronl lens
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood 360° rotation
   - Attachment (zoom spotlight)
     - Zoom lens, continuously focusable
     - Light distributions: zoom spot, zoom oval
     - Zoom oval 360° rotation

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3 Housing and bracket
   - White (RAL9002), black or silver
   - Cast aluminium, powder-coated
   - 0°-90° tilt
   - Bracket on adapter rotatable through 360°

4 Control gear
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

5 ERCO turning adapter for 2-circuit track
   Variants on request
   - Housing: 10,000 further colors
   Please contact your ERCO consultant.

Design and application:
www.erco.com/parscan
**Parscan** for 2-circuit track

**Oval flood freely rotatable**
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

**Large lumen packages for very high illuminances**
The attention of the viewer can be focused via contrasting accents. ERCO has high-performance luminaires with large lumen packages in its range for this purpose.

**Zoom spotlights**
The light beam diameter can be infinitely adjusted from spot (15°) to wide flood (65°) by simply turning the lens. Zoom spotlights are particularly suitable for illuminating areas with changing exhibits and merchandise.

**Small luminaire dimensions**
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

**Ideal for ceiling channels**
The minimalist design of Parscan is suitable for situations in which the luminaire should appear as discreet as possible - for example in museums or shops. If the luminaires are integrated into the ceiling channel they remain almost completely concealed.

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**Special characteristics**

- Large lumen packages for very high illuminances
- Oval flood, freely rotatable
- Zoom spotlight
- Small luminaire dimensions
- Ideal for ceiling channels
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Various construction sizes
- Pivotable through 90°
- Accessory for maximum visual comfort
- Trailing edge dimmable + On-board Dim

ERCO Program 2020
**Parscan** for 2-circuit track

**Construction size**
- Ø 2 15/16”
- Ø 4 1/2”

**LED module**
- Maximum value at 4000K CRI 82
- 6W/825lm 2W/275lm (Narrow spot)
- 12W/1650lm 4W/550lm (Narrow spot)

**Light distribution**

<table>
<thead>
<tr>
<th>Spotlights</th>
<th>Floodlights</th>
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<tbody>
<tr>
<td>Narrow spot</td>
<td>Wide flood</td>
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<tr>
<td>Spot</td>
<td>Extra wide flood</td>
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<tr>
<td>Flood</td>
<td>Oval flood</td>
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<tr>
<td>Zoom spot</td>
<td>Wallwash</td>
</tr>
<tr>
<td>Zoom oval</td>
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</tr>
</tbody>
</table>

**Control**
- Trailing edge dimmable + On-board Dim

**Color (housing)**
- White
- Silver
- Black
- 10,000 colors *

**Accessories**
- Lenses
- Cross-baffle
- Snoots
- Honeycomb anti-glare screen

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 82
- 3000K CRI 97
- 4000K CRI 92
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 97
- 4000K CRI 92

**Zoom spotlights**
- Lens wallwashers
- Zoom spot
- Wallwash
- Zoom oval
Ø 5 7/8”

24W/3300lm  8W/1100lm (Narrow spot)

2700K  CRI 92  3500K  CRI 92
3000K  CRI 92  4000K  CRI 82
3000K  CRI 97  4000K  CRI 92

Spotlights
Floodlights
- Narrow spot
- Spot
- Flood
- Lens wallwashers

Trailing edge
dimmable +
On-board Dim

White  Silver
Black  10,000 colors *

Ø 7 3/8”

48W/6600lm  18W/2475lm (Narrow spot)

2700K  CRI 92  3500K  CRI 92
3000K  CRI 92  4000K  CRI 82
3000K  CRI 97  4000K  CRI 92

Spotlights
Floodlights
- Narrow spot
- Spot
- Flood
- Lens wallwashers

Trailing edge
dimmable +
On-board Dim

White  Silver
Black  10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/012323-us
Design and application:
www.erco.com/parscan
Pollux – For magic moments

Pollux, the compact spotlight for versatile use.
The versatility of Pollux, underwritten by its compact format, displays particular strengths in museums, shops, the catering industry or residential environments. As a special highlight, Pollux also includes contour spotlights with LED. Using the framing attachment, their sharp-edged beam can be adjusted to suit the format of images and objects in the room or on the wall. This creates wonderful effects that are particularly valuable in museums and galleries. Its understated design means that Pollux is also excellent in combination with other spotlight series or as a gradual addition to existing lighting systems.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
- Oval flood 360° rotation
  or
- Attachment (zoom spotlight)
  - Zoom lens, continuously focusable
  - Light distributions: zoom spot, zoom oval
  - Zoom oval 360° rotation
  or
- Attachment (contour spotlight)
  - Rotatable through 360°
  - Framing attachment: polymer, black
  - Fresnel lens
  - Holder with projection lens, continuously focusable

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Housing and bracket
- White (RAL9002), black or silver
- Cast aluminum, powder-coated
- 0°-90° tilt
- Bracket on turning transadapter rotatable through 360°
- Internal wiring

4 Control gear
- Trailing edge dimmable+On-board Dim
- Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

5 ERCO turning transadapter for 2-circuit track
Variants on request
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/pollux
**Pollux** for 2-circuit track

**Oval flood freely rotatable**
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

**Contour spotlights**
Framing attachments enable a sharply defined light beam. In this way fascinating effects can be created with contour spotlights, where crisply illuminated pictures appear to illuminate from within.

**Zoom spotlights**
The light beam diameter can be infinitely adjusted from spot (15°) to wide flood (65°) by simply turning the lens. Zoom spotlights are particularly suitable for illuminating areas with changing exhibits and merchandise.

**Small luminaire dimensions**
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

**Very good price performance ratio**
The entry-level products offer an attractive price/performance ratio for lighting design tasks especially oriented towards cost-effectiveness. The luminaires of course meet high levels of energy efficiency and the basic requirements for visual comfort.

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**Special characteristics**

- **Oval flood, freely rotatable**
- **Contour spotlight**
- **Zoom spotlight**
- **Small luminaire dimensions**
- **Very good price performance ratio**

---

**ERCO high-power LEDs**

- **Efficient Spherolit technology**
- **Different light distributions**
- **Different light colors**

**Excellent thermal management**

- **EMC-optimized**
- **Various housing colors**
- **Pivoted through 90°**
- **Accessory for maximum visual comfort**

**Trailing edge dimmable + On-board Dim**

---

ERCO Program 2020 101
Pollux for 2-circuit track

**Construction size**
- Ø 2 5/8"
- Ø 2 15/16"

**LED module**
- Maximum value at 4000K CRI 82
- 6W/825lm
- 2W/275lm (Narrow spot)

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 82
- 4000K CRI 92

**Light distribution**
- Spotlights
- Floodlights
  - Narrow spot
  - Wide flood
  - Spot
  - Extra wide flood
  - Flood
  - Oval flood
  - Zoom spot
  - Lens wallwashers
  - Zoom oval
  - Wallwash
  - Framing

**Control**
- Trailing edge dimmable +
- On-board Dim

**Color (housing)**
- White
- Silver
- Black
- 10,000 colors *

**Accessories**
- Lenses
- Cross-baffle
- Snoots
- Honeycomb anti-glare screen

102 ERCO Program 2020
Galleria Arte
Moderna, Milan.
Photography:
Moritz Hillebrand,
Zurich.

* available on request

Article numbers and planning data:
www.erco.com/013445-us
Design and application:
www.erco.com/pollux
Optec – The all-round talent

**Optec — the spotlight for any purpose**

Anything is possible with Optec. In versions with different light distributions, Optec covers the full bandwidth of lighting requirements in shops, galleries and museums – high-contrast accent lighting, floodlighting of exhibits, uniform illumination of walls, or sharp-edged beams for striking effects. With innovative photometrics, Optec combines efficiency with visual comfort.

To ensure excellent thermal management and flawless performance, ERCO has separated the light head and control gear, whilst, at the same time, the combination of cuboid and cylinder creates the visual impression of less volume and a classic design.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood 360° rotation
   or
   Attachment (zoom spotlight)
   - Zoom lens, continuously focusable
   - Light distributions: zoom spot, zoom oval
   - Zoom oval 360° rotation
   or
   Attachment (contour spotlight)
   - Rotatable through 360°
   - Framing attachment
   - Holder with projection lens, continuously focusable

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3 Cylindrical light head
   - White (RAL9002), black or silver
   - Cast aluminum, powder-coated
   - 270° tilt

4 Housing
   - White (RAL9002), black or silver
   - Polymer
   - Rotatable through 360° on adapter

5 Control gear
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

6 ERCO turning adapter for 2-circuit track
   Variants on request
   - Housing: 10,000 further colors
   - Control: Casambi Bluetooth
   Please contact your ERCO consultant.

Design and application: www.erco.com/optec

ERCO Program 2020
Oval flood freely rotatable
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

Zoom spotlights
The light beam diameter can be infinitely adjusted from spot (15°) to wide flood (65°) by simply turning the lens. Zoom spotlights are particularly suitable for illuminating areas with changing exhibits and merchandise.

Contour spotlights
Framing attachments enable a sharply defined light beam. In this way fascinating effects can be created with contour spotlights, where crisply illuminated pictures appear to illuminate from within.

Very good price performance ratio
The entry-level products offer an attractive price/performance ratio for lighting design tasks especially oriented towards cost-effectiveness. The luminaires of course meet high levels of energy efficiency and the basic requirements for visual comfort.

Special characteristics
- Oval flood, freely rotatable
- Contour spotlight
- Zoom spotlight
- Very good price performance ratio

ERCO high-power LEDs
Efficient Spherolit technology
Different light distributions
Different light colors
Excellent thermal management
EMC-optimized
Various housing colors
Various construction sizes
Pivotal through 270°
Accessory for maximum visual comfort

Trailing edge dimmable + On-board Dim

ERCO Program 2020
**Optec** for 2-circuit track

**Construction size**
- Ø 2 3/4”
- Ø 4 1/8”

**LED module**
Maximum value at 4000K CRI 82
- 6W/825lm
- 2W/275lm (Narrow spot)

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97

**Light distribution**
- Spotlights
  - Narrow spot
  - Spot
  - Flood
  - Zoom spotlights
  - Zoom spot
  - Zoom oval
- Floodlights
  - Wide flood
  - Extra wide flood
  - Oval flood
  - Lens wallwashers
  - Wallwash

**Control**
- Trailing edge dimmable + On-board Dim

**Color (housing)**
- White
- Silver
- Black
  - 10,000 colors *

**Accessories**
- Lenses
- Cross-baffle
- Snoot
- Honeycomb anti-glare screen

108  ERCO Program 2020
**Spotlights**

2700K CRI 92
3000K CRI 92
3000K CRI 97

**Floodlights**

3500K CRI 92
4000K CRI 82
4000K CRI 92

---

**Construction size**

\( \phi 5 \, \text{1/8”} \)

**Light color**

2700K CRI 92
3000K CRI 92
3000K CRI 97

**LED module**

Maximum value at 4000K CRI 82
6W/825lm

---

**Control**

Trailing edge
dimmable +
On-board Dim

**Color (housing)**

White
Silver
Black
10,000 colors *

---

* available on request

Article numbers and planning data:
www.erco.com/013760-us

Design and application:
www.erco.com/optec

ERCO Program 2020
Light Board – An established archetype

Light Board is a strong partner for virtually any lighting task. The most characteristic feature of Light Board is its striking design. The flat housing integrates the control gear, as sophisticated thermal management ensures a long service life. Innovative photometrics and easy adjustment deliver convincing arguments for use of the Light Board even for challenging tasks in salesrooms and museums. The Light Board concept includes various lumen packages making the range ideal for accent lighting across large distances in rooms with high ceilings as well as for intensive illumination of walls. Light Board as a result is a strong partner for creative lighting concepts with efficient visual comfort.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
- Oval flood adjustable through 90°

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Housing and bracket
- White (RAL9002), black or silver
- Cast aluminum, powder-coated
- 0°-90° tilt
- Bracket on adapter rotatable through 360°
- Internal wiring
- Front cover: polymer, black

4 Control gear
- Trailing edge dimmable+On-board Dim
- Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

5 ERCO turning adapter for 2-circuit track
Variants on request
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/light-board
**Light Board** for 2-circuit track

**Special characteristics**
- Large lumen packages for very high illuminances
- Small luminaire dimensions
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Various construction sizes
- Pivotal through 90°
- Accessory for maximum visual comfort
- Trailing edge dimmable + On-board Dim

---

Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

Large lumen packages for very high illuminances
The attention of the viewer can be focused via contrasting accents. ERCO has high-performance luminaires with large lumen packages in its range for this purpose.
**Light Board** for 2-circuit track

**Construction size**

- **4 7/8''**
- **6 1/4''**

**LED module**

Maximum value at 4000K CRI 82

- **12W/1650lm**
- **4W/550lm (Narrow spot)**
- **24W/3300lm**
- **12W/1650lm (Narrow spot)**

**Light color**

- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 4000K CRI 82
- 4000K CRI 92
- 3000K CRI 97
- 4000K CRI 92

**Light distribution**

- **Spotlights**
  - Narrow spot
  - Spot
  - Flood
  - Lens wallwashers
- **Floodlights**
  - Wide flood
  - Extra wide flood
  - Oval flood
  - Wallwash
- **Spotlights**
  - Narrow spot
  - Spot
  - Flood
  - Lens wallwashers
- **Floodlights**
  - Wide flood
  - Extra wide flood
  - Oval flood
  - Wallwash

**Control**

- Trailing edge dimmable + On-board Dim

**Color (housing)**

- White
- Silver
- Black
- 10,000 colors *

**Accessories**

- Lenses
- Snoots

114   ERCO Program 2020
48W/6600lm | 24W/3300lm (Narrow spot)

| 2700K CRI 92 | 3500K CRI 92 |
| 3000K CRI 92 | 4000K CRI 82 |
| 3000K CRI 97 | 4000K CRI 92 |

Spotlights | Floodlights
---|---
Narrow spot | Wide flood
Spot | Extra wide flood
Flood | Oval flood
Lens wallwashers | Wallwash

Trailing edge | dimmable + On-board Dim
White | Silver
Black | 10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/012364-us
Design and application:
www.erco.com/light-board
Opton – The lighting tool for shop lighting

Flexible and low-cost illumination for salesrooms
Opton is ideal for shop windows and salesrooms thanks to a particularly low height and a high luminous flux. ERCO achieves this with the intelligent positioning of control gear and luminaire head. The cast aluminum luminaire head ensures a long life thanks to sophisticated thermal management. In combination with efficient photometrics, Opton allows for highly economical and energy-efficient illumination. Variable distribution options further ensure flexible lighting solutions without compromising the light quality. Opton – the ideal tool for shop lighting.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood adjustable through 90°

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3 Light head
   - White (RAL9002), black or silver
   - Cast aluminum, powder-coated
   - 0°-90° tilt
   - Frame: polymer, black

4 Housing
   - White (RAL9002), black or silver
   - Polymer
   - Rotatable through 360° on adapter

5 Control gear
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

6 ERCO turning adapter for 2-circuit track

Variants on request
   - Housing: 10,000 further colors
   - Please contact your ERCO consultant.

Design and application:
www.erco.com/opton

ERCO Program 2020
Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

Very good price performance ratio
The entry-level products offer an attractive price/performance ratio for lighting design tasks especially oriented towards cost-effectiveness. The luminaires of course meet high levels of energy efficiency and the basic requirements for visual comfort.

Special characteristics
- Small luminaire dimensions
- Very good price performance ratio
- ERCO high-power LEDs
- Efficient Spheroit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Various construction sizes
- Pivotable through 90°
- Accessory for maximum visual comfort
- Trailing edge dimmable + On-board Dim
**Opton** for 2-circuit track

<table>
<thead>
<tr>
<th>Construction size</th>
<th>3 6/8&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/8&quot;</td>
<td>50mm</td>
</tr>
<tr>
<td>3 6/8&quot;</td>
<td>95mm</td>
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</table>

<table>
<thead>
<tr>
<th>LED module</th>
<th>Maximum value at 4000K CRI 82</th>
</tr>
</thead>
<tbody>
<tr>
<td>6W/825lm</td>
<td>2W/275lm (Narrow spot)</td>
</tr>
<tr>
<td>12W/1650lm</td>
<td>8W/1100lm (Narrow spot)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light color</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K CRI 92</td>
<td>3500K CRI 92</td>
</tr>
<tr>
<td>3000K CRI 92</td>
<td>4000K CRI 82</td>
</tr>
<tr>
<td>3000K CRI 97</td>
<td>4000K CRI 92</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light distribution</th>
<th>Spotlights</th>
<th>Floodlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow spot</td>
<td>Wide flood</td>
<td></td>
</tr>
<tr>
<td>Spot</td>
<td>Extra wide flood</td>
<td></td>
</tr>
<tr>
<td>Flood</td>
<td>Oval flood</td>
<td></td>
</tr>
<tr>
<td>Lens wallwashers</td>
<td>Wallwash</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control</th>
<th>Trailing edge dimmable + On-board Dim</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Color (housing)</th>
<th>White</th>
<th>Silver</th>
<th>Black</th>
<th>10,000 colors *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenses</td>
<td>Snoots</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

120 ERCO Program 2020
Spotlights

- Narrow spot
- Spot
- Flood

Floodlights

- Wide flood
- Extra wide flood
- Oval flood

Lens wallwashers

Wallwash

Trailing edge
dimmable +
On-board Dim

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request

24W/3300lm
18W/2475lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 97

3500K CRI 92
4000K CRI 82
4000K CRI 92

2700K CRI 92
3000K CRI 97
4000K CRI 92

White
Silver
Black
10,000 colors *

* available on request
Cantax – Plain and simple

Cantax is the ideal tool for the illumination of shops, restaurants and art. Cantax produces the perfect beam – brilliant, evenly bright and with a soft edge. The technology originates from ERCO: innovative Spherolit technology, which is easily exchanged for different applications, making Cantax the ideal tool to meet the highest lighting standards in areas ranging from residential buildings and shops through to restaurants and art. The LED spotlights are just as suitable for exhibitions requiring light without damaging infrared or ultraviolet components to satisfy stringent conservational criteria.
**Cantax** for 2-circuit track

**Structure and characteristics**
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1. **ERCO Spherolit lens**
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood adjustable through 90°

2. **ERCO LED-module**
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3. **Housing and bracket**
   - White (RAL9002), black or silver
   - Cast aluminum, powder-coated
   - 0°-90° tilt
   - Bracket on turning transadapter rotatable through 360°
   - Internal wiring
   - Frame: polymer

4. **Control gear**
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

5. **ERCO turning transadapter for 2-circuit track**
   - Housing: 10,000 further colors
   - Please contact your ERCO consultant.

**Design and application:**
www.erco.com/cantax
**Small luminaire dimensions**

Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

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**Special characteristics**

- ERCO high-power LEDs
- Efficient Spheroit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Pivotable through 90°
- Accessory for maximum visual comfort
- Trailing edge dimmable + On-board Dim
**Cantax** for 2-circuit track

**Construction size**

| Dimension | Notes
|-----------|------|
| 33 mm    | 105 mm
| 168 mm   | 92 mm
| 1 3/16"  | 4 1/16" |

**LED module**

Maximum value at 4000K CRI 82

<table>
<thead>
<tr>
<th>Power</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>6W</td>
<td>825lm</td>
</tr>
<tr>
<td>2W</td>
<td>275lm</td>
</tr>
</tbody>
</table>

(Narrow spot)

**Light color**

<table>
<thead>
<tr>
<th>Color</th>
<th>CRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>92</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
</tr>
<tr>
<td>3000K</td>
<td>97</td>
</tr>
<tr>
<td>4000K</td>
<td>92</td>
</tr>
</tbody>
</table>

**Light distribution**

- Spotlights
  - Narrow spot
  - Spot
  - Flood
  - Lens wallwashers
- Floodlights
  - Wide flood
  - Extra wide flood
  - Oval flood
  - Wallwash

**Control**

- Trailing edge dimmable + On-board Dim

**Color (housing)**

- White
- Silver
- Black
  - 10,000 colors *

**Accessories**

- Lenses
- Snoots
PS Speicher Einbeck, Einbeck, Germany.
Photography: Dirk Vogel, Altena

* available on request

Article numbers and planning data:
www.erco.com/011130-us
Design and application:
www.erco.com/cantax
Pantrac – Lighting effects for walls

Simple and efficient wallwashing for museums and business premises. Pantrac exceeds the demands of the ultimate challenge in lighting design: perfect wallwashing. The system is designed to achieve superb uniform illumination of walls, product shelving or exhibits with total visual comfort. Innovative photometrics optimize its efficiency and, as a result, reduce the number of luminaires required, as these can be spaced further apart. With its archetypal cubic design, the luminaire integrates as effortlessly with modern rooms as with historic architecture. A very wide dimming control range of 1% to 100% supports aesthetic and conservation aspects of artwork protection and gallery appearance.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distribution: wallwash

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3 Front cover
   - Polymer, black lacquered

4 Housing
   - White (RAL9002), black or silver
   - Cast aluminum, powder-coated
   - Rotatable through 360° on adapter

5 Control gear
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

6 ERCO turning adapter for 2-circuit track
   Variants on request
   - Housing: 10,000 further colors
   Please contact your ERCO consultant.

Design and application:
www.erco.com/pantrac
Pantrac for 2-circuit track

Simple installation
Pantrac creates perfect light for wallwashing without additional pivoting.

Outstanding uniformity
Pantrac provides uniform vertical lighting to perfection – whether in prestigious entrance areas, in offices or in museums.

Large luminaire spacing
The high-efficiency Pantrac lighting technology enables luminaire spacing of up to one and a half times the distance to the wall.

Special characteristics

Outstanding uniformity
Easy installation
Wide luminaire spacing with wallwashing

ERCO high-power LEDs
Efficient Spherolit technology
Different light colors

Excellent thermal management
EMC-optimized
Various housing colors

Trailing edge dimmable + On-board Dim

ERCO Program 2020 131
**Pantrac** for 2-circuit track

**Construction size**

<table>
<thead>
<tr>
<th>Pantrac size</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>4 3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>8 3/16&quot;</td>
<td>4 3/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**LED module**

Maximum output at 4000K CRI 82

<table>
<thead>
<tr>
<th>LED module</th>
<th>12W/1650lm</th>
<th>24W/3300lm</th>
</tr>
</thead>
</table>

**Light color**

<table>
<thead>
<tr>
<th>Light color</th>
<th>2700K CRI 92</th>
<th>3500K CRI 92</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3000K CRI 92</td>
<td>4000K CRI 82</td>
</tr>
<tr>
<td></td>
<td>3000K CRI 97</td>
<td>4000K CRI 92</td>
</tr>
</tbody>
</table>

**Light distribution**

- Lens wallwashers
- Wallwash

**Control**

- Trailing edge dimmable +
- On-board Dim

**Color (housing)**

- White
- Silver
- Black 10,000 colors *
Jilly – The versatile light for modern work

Highly efficient and standard-compliant office workplace lighting – with track as a flexible basis.
In keeping with modern, dynamic working environments in which office layouts are constantly changing and adapting, Jilly luminaires for track achieve the efficient and standard-compliant lighting of workplaces. The especially flat housing and a striking anti-glare louvre characterize the elegant appearance. Jilly's lighting technology combines a highly efficient lens system with an anti-glare louvre for visual comfort and luminous efficacy at the same high level. The wattage and light distribution enable wide luminaire spacing for economical lighting concepts that comply to standards. Jilly can be optimally aligned by mounting on track adapters – always according to the requirements of the architecture and the arrangement of the workstations.
**Structure and characteristics**

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1. **ERCO lens system**
   - Made of optical polymer
   - Light distributions: extra wide flood or oval wide flood

2. **ERCO LED module**
   - Mid-power LEDs: warm white (3000K) or neutral white (4000K)

3. **Louvre**
   - Polymer, black lacquered or aluminum vaporized, silver, specular

4. **Housing**
   - White (RAL9002), black or silver
   - Polymer, coated
   - Rotatable through 360° on adapter

5. **Control gear**
   - Trailing edge dimmable+On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

6. **ERCO turning adapter for 2-circuit track**

**Variants on request**
- Mid-power LEDs: 2700K, 3000K, 3500K or 4000K with CRI 92
- Anti-glare louvre: gold matt, silver matt, champagne matt or copper matt-coated and other colors
- Housing: 10,000 further colors

Please contact your ERCO consultant.

**Design and application:**

www.erco.com/jilly-t
Louvres for efficient visual comfort
A louvre is designed to restrict the view into the luminaire, achieving efficient visual comfort with an emission angle of 90°. An anti-glare louvre available in black or silver enables the luminaire to blend with the material and color of the ceiling.

Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

Special characteristics
- Improved visual comfort
- Small luminaire dimensions
- ERCO mid-power LEDs
- Efficient lens system
- Different light distributions
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Easy installation
- Trailing edge dimmable + On-board Dim
Jilly for 2-circuit track

Construction size

LED module
Maximum value at 4000K CRI 82

10W/1830lm

Light color

2700K CRI 92 *
3000K CRI 82
3000K CRI 92 *
3500K CRI 92 *
4000K CRI 82
4000K CRI 92 *

Light distribution

Downlights
Downlights
Extra wide flood
Oval wide flood

Control

Trailing edge
dimmable +
On-board Dim

Color (housing/louvre)

White/Silver
White/Black
Black/Silver
Black/Black
Silver/Silver
Silver/Black

10,000 colors */
Silver
10,000 colors */
Black
Fabege AB - WAW
Lighting design: ABREU Design Studio. Electrical engineering: Stockholms Eljänst Lundén AB; Elbolaget LMJ AB; Lundek Elkonsult AB; Elarkitektur AB. Photography: Gavriil Papadiotis, London.
Compar – The flexible path to perfect light

An adaptable, compact tool for ergonomic light in offices
Illuminating office architecture and workplaces in a nuanced and extremely flexible way – made possible by the combination of Compar luminaires and track as the infrastructure. As downlights for track, they utilize the lighting technology of the extensive Compar range. With their flat housing they are also suitable for rooms with low ceiling heights. Compar features high visual comfort thanks to its anti-glare louvre, and workplaces are illuminated according to standards and glare-free with appropriate light distributions. Compar can always be optimally aligned even with changing office layouts due to installation via track adapters. The wattage and light distribution of Compar enable wide luminaire spacing for economical lighting concepts.

Related ranges

- Compar linear
  - Recessed luminaires
  - Surface-mounted luminaires
  - Page 200
  - Page 224
**Structure and characteristics**
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1. **ERCO lens system**
   - Made of optical polymer
   - Light distributions: wide flood, extra wide flood, oval wide flood or oval flood

2. **ERCO LED-module**
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)

3. **Louvre**
   - Polymer, black lacquered or aluminum vaporized, silver, specular
   - Cut-off angle 30° from horizontal

4. **Housing**
   - White (RAL9002), black or silver
   - Cast aluminum, powder-coated
   - Rotatable through 360° on adapter

5. **Control gear**
   - Trailing edge dimmable + On-board Dim
   - Dimming with external dimmers (trailing edge) possible and rotary control for brightness control on the luminaire

6. **ERCO turning adapter for 2-circuit track**

Variants on request
- Anti-glare louvre: coated matt gold, matt silver or matt champagne
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/compar-t
**Compar for 2-circuit track**

**Small luminaire dimensions**
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

**Louvres for efficient visual comfort**
A louvre is designed to restrict the view into the luminaire, achieving efficient visual comfort with an emission angle of 90°. An anti-glare louvre available in black or silver enables the luminaire to blend with the material and color of the ceiling.

**Special characteristics**
- Excellent visual comfort
- ERCO high-power LEDs
- Efficient lens system
- Cut-off 30° from horizontal
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various housing colors
- Easy installation
- Trailing edge dimmable + On-board Dim
### Compar for 2-circuit track

<table>
<thead>
<tr>
<th>Construction size</th>
<th>10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LED module</strong></td>
<td>Maximum value at 4000K CRI 82</td>
</tr>
<tr>
<td></td>
<td>12W/1650lm</td>
</tr>
</tbody>
</table>

#### Light color
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 92
- 4000K CRI 92

#### Light distribution
- Downlights
- Downlights oval flood
- Wide flood
- Oval flood
- Extra wide flood
- Oval wide flood

#### Control
- Trailing edge dimmable + On-board Dim

#### Color (housing/louvre)
- White/Silver
- White/Black
- Black/Silver
- Black/Black
- Silver/Silver
- Silver/Black
- 10,000 colors */ Silver
- 10,000 colors */ Black

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144 ERCO Program 2020
Integrated. Accentuating.
Recessed spotlights and floodlights

Recessed spotlights combine the flexibility of spotlights with the discreet appearance of recessed luminaires. Their domain is accent lighting. Swivel mechanisms allow the luminaires to be aligned with objects. Recessed spotlights are inconspicuous architectural details and can be ideally combined with downlights.

Overview of all ranges: from page 150
www.erco.com/spotlights-r/en_us
Recessed spotlights, floodlights Application examples

Light and shadows
- Strong accents with narrow light beams create private zones
- Visible luminaire details in the color of your choice
- 2700K light color for a cozy atmosphere

Products used:
Quintessence page 152

Staging the background
- Decorative wall surfaces in hotels and restaurants emphasize branding
- Bright, friendly surroundings due to emphasis of vertical lighting
- Attractive play of light and shadow on the leaves

Products used:
Quintessence page 152
This distinguishes our recessed spotlights and floodlights

Choose your light distribution

Whatever you wish to illuminate, with ERCO you’ll find the right light distribution.

Round or square

The system design of ERCO recessed luminaires offers almost any light distribution—thanks to lens technology that is independent of the luminaire geometry.

Small and large

Find the right size and lumen package for any light effect and room height—from boutiques to museum foyers.

Choose your light distribution

oval flood approx. 20° x 60°
narrow spot < 10°
spot 10°–20°
flood 25°–35°
wide flood > 45°
You’d like to precisely align your light beams? Recessed spotlights can be panned and tilted with precision.

Perfectly integrated
With recessed ceiling cassette, the pivoted luminaire head does not protrude beyond the lower edge of the ceiling—perfectly integrated for a simple ceiling appearance.

Light for art and art appreciation
LEDs with excellent quality of light show your art in optimal colors.

Customize
“ERCO individual” offers extensive options to individualize product ranges:
 erco.com/individual

Products with these features can be found on the next page.
Recessed spotlights and floodlights

Quintessence round
- 2W/200lm – 18W/2475lm
- Tilitable through 40°
- Five light distributions
- Available with recessed luminaire head
- Shop, Culture

Quintessence square
- 2W/200lm – 18W/2475lm
- Tilitable through 40°
- Five light distributions
- Available with recessed luminaire head
- Shop, Culture
Palmers Store, Vienna. Photographer: Gustavo Allidi Bernasconi, Vienna / Austria

Quintessence round – Elegant accentuation and floodlighting

Round recessed spotlights and recessed floodlights for prestigious areas, exhibitions and salesrooms

The Quintessence round recessed spotlights help you expertly accentuate individual areas or objects. The recessed floodlights, meanwhile, direct the attention of the observer onto your shelves and product tables. The luminaires integrate elegantly with the room architecture, their large swivel range enables you to reach even far corners of the room.

The Quintessence system design facilitates a flexible lighting concept as a unified whole. Combine spotlights and floodlights with each other or with the Quintessence downlights. Select the appropriate mounting details and lamps. Whatever your choice, the result is always a highly efficient lighting system meeting the highest standards of light quality.

Related ranges

- **Quintessence square**
  - Recessed spotlights, recessed floodlights
  - Page 158

- **Quintessence round**
  - Recessed luminaires
  - Page 174

- **Quintessence Pinhole**
  - Recessed luminaires
  - Page 186
Quintessence round Recessed spotlights, recessed floodlights

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: narrow spot, spot, flood, wide flood or oval flood
- Oval flood 360° rotation

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Flush or regressed cassette
- Polymer, white

4 Mounting ring
- Covered mounting detail
- Fixing for ceiling thicknesses of 1-25mm (size 4) or 1-30mm (size 7)
- Polymer, white
- For flush mounting: mounting ring to be ordered separately, fixing for ceiling thicknesses of 1/2” - 1” / 12.5–25mm

5 Housing
- Cast aluminum
- 0°-40° tilt, 360° rotation
- Lockable angles of tilt and rotation
- Anti-glare ring: polymer or cast aluminum, internal black lacquered, external white

6 Control gear
- Switchable, trailing edge dimmable or 0-10V dimmable
- Trailing edge dimmable version: Dimming with external dimmers possible

Variants on request
- Cassette and mounting ring: 10,000 further colors
- Control: Lutron
- Please contact your ERCO consultant.
Quintessence round  Recessed spotlights, recessed floodlights

Covered or flush mounting detail
As standard, all recessed luminaires have overlapping installation details. Flush mounting rings are available as accessories.

Oval flood freely rotatable
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

Pivotable through 40°
The luminaires can be adjusted precisely for optimum beam alignment. The light is thus emitted to precisely where it is required.

Shallow recess depth
In compact installation situations, every millimeter is decisive with the recess depth of a luminaire. ERCO has thus developed special luminaires for shallow recess depths that guarantee very good quality of light even in very tight installation conditions.

Special characteristics
- Oval flood, freely rotatable
- Flush or covered mounting detail
- Pivotable through 40°
- Shallow recess depth
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Lockable
- Switchable
- Trailing edge dimmable
- 0–10V dimmable
- Tool-free mounting
Quintessence round Recessed spotlights, recessed floodlights

**Construction size**
- Ø 5 9/16" (142mm)
- Ø 8 11/16" (221mm)

**LED module**
- Maximum value at 4000K CRI 82
- 6W/825lm (Recessed spotlights)
- 2W/275lm (Narrow spot)
- 18W/2475lm (Recessed floodlights)
- 8W/1100lm (Narrow spot)

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 82
- 4000K CRI 92
- 4000K CRI 92

**Light distribution**
- Recessed spotlights
  - Narrow spot
  - Spot
  - Flood
- Recessed floodlights
  - Wide flood
  - Oval flood
  - Flood

**Control**
- Switchable
- Trailing edge dimmable
- 0–10V

**Color (housing)**
- White
- 10,000 colors *

**Accessories**
- Junction box
- Mounting ring
- Flexible metal conduit
- Cover ring
- Plaster frame
- Ultra airtight I.C. box
Ekonomikum at the University of Uppsala, Uppsala.
Quintessence square – Elegant accentuation and floodlighting

Square recessed spotlights and recessed floodlights for prestigious areas, exhibitions and salesrooms

The Quintessence square recessed spotlights accentuate individual areas or objects. The recessed floodlights, meanwhile, direct the attention of the observer onto shelves and product displays. Designed with linear forms in mind, the luminaires integrate perfectly with the room’s architecture, and the versatile positioning options enable penetration into the furthest corners of a space.

The Quintessence system design facilitates a flexible lighting concept as a unified whole. Combine spotlights and floodlights with each other or with the Quintessence downlights. Select the appropriate mounting details and lamps. Whatever your choice, the result is always a highly efficient lighting system meeting the highest standards of light quality.

Related ranges

Quintessence round
Recessed spotlights, recessed floodlights
Page 152

Quintessence square
Recessed luminaires
Page 180

Quintessence Pinhole
Recessed luminaires
Page 186
**Quintessence square** Recessed spotlights, recessed floodlights

**Structure and characteristics**

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1. **ERCO Spherolit lens**
   - Light distributions: narrow spot, spot, flood, wide flood or oval flood
   - Oval flood 360° rotation

2. **ERCO LED-module**
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3. **Flush or regressed cassette**
   - Polymer, white

4. **Mounting frame**
   - Covered mounting detail
   - Fixing for ceiling thicknesses of 1-30mm
   - Polymer, white
   - For flush mounting: mounting frame to be ordered separately, fixing for ceiling thicknesses of 1/2" - 1" / 12.5–25mm

5. **Housing**
   - Cast aluminum
   - Pivotable through 0°–30° or 0°–40°
   - Lockable angles of tilt and rotation
   - Anti-glare ring: polymer or cast aluminum, internal black lacquered, external white

6. **Control gear**
   - Switchable, trailing edge dimmable or 0-10V dimmable
   - Trailing edge dimmable version: Dimming with external dimmers possible
   - Variants on request
     - Cassette and mounting frame: 10,000 further colors
     - Control: Lutron
     - Please contact your ERCO consultant.

**Design and application:**

www.erco.com/quintessence-square-r

160 ERCO Program 2020
Quintessence square Recessed spotlights, recessed floodlights

Covered or flush mounting detail
As standard, all recessed luminaires have overlapping installation details. Flush mounting frames are available as accessories.

Oval flood freely rotatable
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

Pivotal through 40°
The luminaires can be adjusted precisely for optimum beam alignment. The light is thus emitted to precisely where it is required.

Shallow recess depth
In compact installation situations, every millimeter is decisive with the recess depth of a luminaire. ERCO has thus developed special luminaires for shallow recess depths that guarantee very good quality of light even in very tight installation conditions.

Special characteristics
- Oval flood, freely rotatable
- Flush or covered mounting detail
- Pivotal through 40°
- Shallow recess depth

ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors

Excellent thermal management
- EMC-optimized
- Various construction sizes
- Lockable

Switchable
- Trailing edge dimmable
- 0–10V dimmable

Tool-free mounting

ERCO Program 2020 161
**Quintessence square** Recessed spotlights, recessed floodlights

**Construction size**
- 5 9/16" (164mm)
- 8 11/16" (221mm)

**LED module**
- Maximum value at 4000K CRI 82
  - 6W/825lm
  - 2W/275lm (Narrow spot)
- 18W/2475lm
- 8W/1100lm (Narrow spot)

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97

**Light distribution**
- Recessed spotlights
  - Narrow spot
  - Spot
  - Flood
- Recessed floodlights
  - Wide flood
  - Oval flood
  - Flood

**Control**
- Switchable
- Trailing edge dimmable
- 0–10V

**Color (housing)**
- White
- 10,000 colors *

**Accessories**
- Junction box
- Mounting frame
- Flexible metal conduit
- Cover frame
- Plaster frame
- Ultra airtight I.C. box

162 ERCO Program 2020
Danske Bank branch, Belfast.  
Architecture: Hughes McMichaels, Belfast.  
Photographer: Dirk Vogel, Dortmund.
Integrated. Versatile.  
Recessed luminaires

With recessed luminaires, the luminaire is completely subordinate to its lighting effect. The lighting tools are hardly noticed as an additional element of design, as they are fully integrated into the architecture. The building and its spaces within reveal themselves in an interplay of surfaces and light—light with outstanding visual comfort that covers the entire spectrum from accentuating beams of light to wallwashing.

Overview of all ranges: from page 172  
www.erco.com/downlights-r/en_us
Light for the office

- Office lighting with high visual comfort for pleasant working conditions
- Very small ceiling detail due to compact luminaire dimensions
- Standard-compliant office lighting

Products used:
Compar linear page 200

Light for enjoying

- Directional spotlights have the appearance of a downlight but are adjustable like a spotlight
- Brilliant light emphasizes the innate value of shiny surfaces
- High color rendering creates an appetite for food and beverages

Products used:
Quintessence square page 180

Light for welcoming

- Uniform wallwashing achieves a wide spatial impression
- Welcoming visitors: displaying wall structures with grazing light
- Pleasant impression of brightness due to light on vertical surfaces

Products used:
Compar linear (left) page 200
Lightgap (right) page 206
Meetings in perfect light

- Cylindrical illuminances for ideal facial recognition
- Oval wide flood light distribution for uniform illumination of tables
- Vertical lighting creates a bright and prestigious spatial impression

Products used:
*Compar linear* page 200

Light for art appreciation

- Uniform wallwashing serves as neutral background
- Wide luminaire spacing reduces project costs

Products used:
*Quintessence round* page 174
Light for high rooms

- Large lumen packages generate high illuminance levels on the target surface
- Luminaires with low brightness reflectors ensure high visual comfort

Products used:
Quintessence round page 174
These lighting tools solve your lighting tasks

You'd like to display objects with use of minimal luminaire openings?

You'd like to welcome guests with prestigious foyer lighting?

Pinhole directional spotlights for accentuations with narrow light distributions

✅ Small light emission aperture
✅ Almost invisible detail in the ceiling
✅ Rich-contrast accent lighting

Wallwashing for a prestigious appearance

✅ Bright walls create an extensive impression of space
✅ Planar lighting up to a height of 26ft and more with wallwashers
✅ Grazing light emphasizes textures
You need economical office lighting that conforms to standards?

**Downlights for standard-compliant office lighting**

- Luminaires with UGR<19
- Oval wide flood light distribution for illuminating office workplaces
- Low project costs due to wide luminaire spacing
Round, square or linear

The design of ERCO recessed luminaires offers almost any light distribution—thanks to lens technology that is independent of the luminaire geometry.

This distinguishes our recessed luminaires

Wallwashing in all its facets

ERCO wallwashers are the specialists for vertical lighting with wall heights of 26ft and more: ranging from uniform wallwashing in foyers and highly attractive grazing light on structured walls to precise double wallwashing in corridors.

Luminaires for high rooms

ERCO LED downlights offer high illuminances and outstanding visual comfort.

IC rated

All Compar recessed luminaires are IC-rated to meet high levels of safety. ERCO offers additional accessories to meet various regional requirements.

For mounting details please take a closer look at the installation instructions.
Connectivity

All recessed luminaires are supplied with control gear. Switchable, trailing edge and 0-10V dimmable control gear allow integration into any infrastructure.

High visual comfort

Low brightness reflectors or anti-dazzle louvers: both enable standard-compliant office lighting.

Extremely durable

Due to their excellent maintenance of luminous flux, ERCO luminaires feature high investment security: L90/B10 with up to 50,000 operating hours. At 9 hours a day, this means over 15 years of low-maintenance operation with outstanding photometric characteristics—ideal for difficult-to-access installation locations.

Setting magical accents with directional spotlights

Directional spotlights blend almost invisibly into the architecture. They combine the appearance of a downlight with the adjustment capability of a spotlight.

Customize

"ERCO individual" offers extensive options to individualize product ranges:

www.erco.com/individual

High visual comfort

Low brightness reflectors or anti-dazzle louvers: both enable standard-compliant office lighting.

Extremely durable

Due to their excellent maintenance of luminous flux, ERCO luminaires feature high investment security: L90/B10 with up to 50,000 operating hours. At 9 hours a day, this means over 15 years of low-maintenance operation with outstanding photometric characteristics—ideal for difficult-to-access installation locations.

Setting magical accents with directional spotlights

Directional spotlights blend almost invisibly into the architecture. They combine the appearance of a downlight with the adjustment capability of a spotlight.

Customize

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www.erco.com/individual

Directional spotlight light distributions: narrow spot < 10°, spot 10°–20°, flood 25°–35°

Connectivity

All recessed luminaires are supplied with control gear. Switchable, trailing edge and 0-10V dimmable control gear allow integration into any infrastructure.
**Indoors Recessed luminaires**

**Quintessence round** 174
Downlights, wallwashers and directional luminaires
Very high visual comfort due to low brightness technology
Community, Work

**Quintessence square** 180
Downlights, wallwashers and directional luminaires
Very high visual comfort due to low brightness technology
Community, Work

**Quintessence Pinhole** 186
Directional spotlight tiltable through 30°
Almost invisible light source
Precise accenting
Shop

**Atrium double focus** 192
Downlights and wallwashers
Ideal for very high rooms and inclined ceilings
Very high visual comfort
Community

**Compar linear** 200
Downlights and wallwashers with extremely narrow ceiling detail
For office workstation lighting as of UGR<16
Five light distributions
Community, Work

**Grazing light wallwashers**

**Lightgap** 206
Impressively uniform grazing light
Invisible light source
Continuous luminaire configurations possible
Hospitality, Community
Tessmar recording studio, Hanover.
Lighting design:
PFE – planning company for electrical engineering, Hanover.
Erich Rusch, Elektrotechnische Anlagen GmbH, Hanover.
Photography:
Sebastian Mayer, Berlin.
Quintessence round – The system solution for excellent visual comfort

Large luminaire spacing, high uniformity and excellent visual comfort
Quintessence sets standards in terms of visual comfort, efficiency and quality of light for recessed luminaires. The high-efficiency product family consists of downlights, lens wallwashers and directional spotlights in round and square designs. Characteristic of Quintessence downlights and lens wallwashers is their good glare control and high uniformity of illumination. The 90° beam angle and a 40° cut-off from horizontal allow wide luminaire spacing between downlights and therefore high-quality, efficient ambient lighting.

Related ranges

Quintessence square
Recessed luminaires
Page 180

Quintessence Pinhole
Recessed luminaires
Page 186

Quintessence round
Recessed luminaires
Page 404
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO low brightness reflector
- Downlight: cut-off angle 40° from horizontal
- Polymer, aluminum vaporized, specular
  or
Wallwasher reflector
- Cut-off angle 80° from horizontal
- Polymer, aluminum vaporized, specular

2 ERCO LED module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Directional luminaire with collimating lens made of optical polymer

3 Diffuser or lens
- Made of optical polymer
- Diffuser lens, wide flood, extra wide flood or lens system, wallwash
- Directional luminaire with Spherolit lens narrow spot, spot or flood

4 Mounting ring
- Covered mounting detail
- Fixing for ceiling thicknesses of 1-25mm (size 3-4) or 1-30mm (size 5-7)
- Polymer, white
  For flush mounting: mounting ring to be ordered separately, fixing for ceiling thicknesses of 1/2” - 1” / 12.5–25mm

5 Housing
- Cast aluminum, designed as heat sink
- Rotatable through 360°
- Fixing ring: polymer, black
- Fixing of the beam direction
- Directional luminaire: 0°–30° tilt, lockable angles of tilt and rotation

6 Control gear
- Switchable, trailing edge dimmable or 0-10V dimmable
- Trailing edge dimmable version:
  - Operation at 120V: Dimming with external dimmers possible

Variants on request
- Reflector: coated matt gold, matt silver or matt champagne
- Mounting ring: 10,000 further colors
- Control: Lutron
Please contact your ERCO consultant.

Design and application:
www.erco.com/quintessence-round
**Quintessence round** Recessed luminaires

**Very high visual comfort**
The low brightness reflector combines maximum visual comfort with an optimum light output ratio.

**Suitable for office workstations**
ERCO develops luminaires with the specifications of good glare control and high visual comfort. UGR values are used as support for purely norm-referenced lighting. With downlights though this should not be carried out using 'blanket' values, but should be implemented according to the individual arrangement of luminaires in the room.

**Covered or flush mounting detail**
As standard, all recessed luminaires have overlapping installation details. Flush mounting rings are available as accessories.

**Special characteristics**
- Excellent visual comfort
- For office workstation lighting as of UGR 18.9
- Flush or covered mounting detail
- ERCO high-power LEDs
- Efficient Spherolit technology
- Cut-off 40°/80° from horizontal
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Lockable
- Switchable
- Trailing edge dimmable
- 0-10V dimmable
- Tool-free mounting

ERCO Program 2020

Erzeugt mit dem DocScape Publisher, Regelwerk $Rev: 14899 $, am 2020-1-27 um 17:04
Quintessence round Recessed luminaires

**Construction size**

- **Size 3**
  - 12W/1650lm
  - 2W/275lm (Narrow spot)

- **Size 4**
  - 18W/2475lm
  - 3W/410lm (Narrow spot)

**LED module**

- Maximum value at 4000K CRI 82

**Light color**

- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 92
- 4000K CRI 92

**Light distribution**

- **Downlights**
  - Wide flood
  - Extra wide flood
  - Lens wallwashers
  - Wallwash

- **Directional luminaires**
  - Narrow spot
  - Spot
  - Flood

**Control**

- Switchable
- Trailing edge dimmable
- 0–10V

**Accessories**

- Junction box
- Mounting ring
- Flexible metal conduit
- Cover ring
- Plaster frame
- Ultra airtight I.C. box

178 ERCO Program 2020
Switchable
Trailing edge
dimmable

0–10V
0–10V

Downlights
Directional luminaires

Wide flood
Narrow spot

Extra wide flood
Spot

Lens wallwashers
Flood

Wallwash

24W/3300lm
6W/825lm (Narrow spot)

32W/4400lm
8W/1100lm (Narrow spot)

2700K CRI 92
3000K CRI 92
3000K CRI 92
4000K CRI 82
3000K CRI 97
4000K CRI 92

Article numbers and planning data:
www.erco.com/014091-us

Design and application:
www.erco.com/quintessence-round

ERCO Program 2020 179
Quintessence square – The system solution for excellent visual comfort

Large luminaire spacing, high uniformity and excellent visual comfort
Quintessence sets standards in terms of visual comfort, efficiency and quality of light for recessed luminaires. The high-efficiency product family consists of downlights, lens wallwashers and directional spotlights in round and square designs. Characteristic of Quintessence downlights and lens wallwashers is their good glare control and high uniformity of illumination. The 90° beam angle and a 40° cut-off from horizontal allow wide luminaire spacing between downlights and therefore high-quality, efficient ambient lighting.

Related ranges
Quintessence round
Recessed luminaires
Page 174
Quintessence Pinhole
Recessed luminaires
Page 186
Quintessence square
Recessed luminaires
Page 404
Quintessence square Recessed luminaires

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO low brightness reflector
   - Downlight: cut-off angle 40° from horizontal
   - Aluminum, anodized, satin matt
   - Wallwasher reflector
   - Cut-off angle 80° from horizontal
   - Aluminum, anodized, satin matt

2 ERCO LED module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Directional luminaire with collimating lens made of optical polymer

3 Diffuser or lens
   - Diffuser lens, wide flood, extra wide flood or lens system, wallwash
   - Directional luminaire with Spherolit lens narrow spot, spot or flood

4 Mounting frame
   - Covered mounting detail
   - Fixing for ceiling thicknesses of 1-30mm
   - Polymer, white
   - For flush mounting: mounting frame to be ordered separately, fixing for ceiling thicknesses of 1/2" - 1" / 12.5–25mm

5 Housing
   - Cast aluminum, designed as heat sink
   - Fixing frame: polymer, black
   - Directional luminaire: 0°–20° tilt, 360° rotation. Lockable angles of tilt and rotation

6 Control gear
   - Switchable, trailing edge dimmable or 0-10V dimmable
   - Reflector: coated matt gold, matt silver or matt champagne
   - Mounting frame: 10,000 further colors
   - Control: Lutron
   - Variants on request
   - Please contact your ERCO consultant.

Design and application:
www.erco.com/quintessence-square
**Quintessence square** Recessed luminaires

**Suitable for office workstations**
ERCO develops luminaires with the specifications of good glare control and high visual comfort. UGR values are used as support for purely norm-referenced lighting. With downlights though this should not be carried out using 'blanket' values, but should be implemented according to the individual arrangement of luminaires in the room.

**Very high visual comfort**
The low brightness reflector combines maximum visual comfort with an optimum light output ratio.

**Covered or flush mounting detail**
As standard, all recessed luminaires have overlapping installation details. Flush mounting frames are available as accessories.

**Special characteristics**
- Excellent visual comfort
- For office workstation lighting as of UGR 18.5
- Flush or covered mounting detail
- ERCO high-power LEDs
- Efficient Spherolit technology
- Cut-off 40°/80° from horizontal
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Lockable
- Tool-free mounting
- Switchable
- Trailing edge dimmable
- 0–10V dimmable
Quintessence square  Recessed luminaires

### Construction size

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<thead>
<tr>
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<th>Size 4</th>
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### LED module

Maximum value at 4000K CRI 82

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<td>3000K CRI 97</td>
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### Light color

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<th>Light color</th>
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<tr>
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</tr>
<tr>
<td>3000K CRI 97</td>
<td>4000K CRI 92</td>
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</tr>
</tbody>
</table>

### Light distribution

- **Downlights**
  - Wide flood
  - Extra wide flood
  - Lens wallwashers
  - Wallwash

- **Directional luminaires**
  - Narrow spot
  - Spot
  - Flood

### Control

- Switchable
- Trailing edge dimmable
  - 0–10V

### Accessories

- Junction box
- Mounting frame
- Flexible metal conduit
- Cover frame
- Plaster frame
- Ultra airtight I.C. box

---

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Size 5

24W/3300lm
6W/825lm (Narrow spot)

- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97

Downlights

- Wide flood
- Extra wide flood
- Lens wallwashers

Directional luminaires

- Narrow spot
- Spot
- Flood

Wallwash

Switchable

Trailing edge

dimmable

0–10V

Size 7

32W/4400lm
8W/1100lm (Narrow spot)

- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97

Downlights

- Wide flood
- Extra wide flood
- Lens wallwashers

Directional luminaires

- Narrow spot
- Spot
- Flood

Wallwash

Switchable

Trailing edge

dimmable

0–10V

Article numbers and planning data:
www.erco.com/014092-us
Design and application:
www.erco.com/quintessence-square
Quintessence Pinhole – Pinpoint accentuation

Minimalist, precise directional spotlights for brilliant effects in the shop

Quintessence Pinhole directional spotlights confidently accent individual objects in the shop. Only a small light emission aperture can be seen in the ceiling. The luminaire therefore blends elegantly into the ceiling and almost disappears as merely a technical detail. The linear opening allows the luminaire head to be swiveled in the ceiling. A supplementary rotary mechanism also enables precise alignment. Quintessence Pinhole directional spotlights epitomize the approach of “light instead of luminaire” to guide the attention of the customer.

Related ranges

<table>
<thead>
<tr>
<th>Range</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quintessence round</td>
<td>174</td>
</tr>
<tr>
<td>Recessed luminaires</td>
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<tr>
<td>Quintessence round</td>
<td>152</td>
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<td>Recessed spot-lights, recessed floodlights</td>
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</table>
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spharolit lens
   - Light distribution: narrow spot

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer

3 Cover with anti-glare cone
   - White
   - Light emission aperture 72x35mm, interior black
   - Cut-off angle 50° from horizontal
   - Polymer

4 Mounting ring
   - Covered mounting detail
   - Fixing for ceiling thicknesses of 1-25mm
   - Polymer, white
   - Fixing detail: for ceiling thicknesses of 1/2" - 1" / 12.5–25mm

5 Housing
   - Cast aluminum, designed as heat sink
   - 0°-30° tilt
   - Fixing ring, polymer, black
   - Rotatable through 360°, Angle of rotation lockable

6 Control gear
   - Switchable, trailing edge dimmable or 0-10V dimmable
   - Trailing edge dimmable version:
     - Operation at 120V: Dimming with external dimmers possible

Variants on request
- Cover and mounting ring: 10,000 further colors
- Control: Lutron
- Please contact your ERCO consultant.

Design and application:
www.erco.com/quintessence-ph
Very high visual comfort
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Covered or flush mounting detail
For minimalist designs, ERCO also offers luminaires with flush mounting details.

Special characteristics
- Excellent visual comfort
- ERCO high-power LEDs
- Efficient Spherolit technology
- Cut-off 50° from horizontal
- Different light colors
- Excellent thermal management
- EMC-optimized
- Lockable
- Tool-free mounting
- Switchable
- Trailing edge dimmable
- 0–10V dimmable
- 0–10V
Quintessence Pinhole Recessed luminaires

**Construction size**
- Size 3

**LED module**
- Maximum value at 4000K CRI 82
- 2W/275lm

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 82
- 4000K CRI 92

**Light distribution**
- Directional luminaires
  - Narrow spot

**Control**
- Switchable
- Trailing edge dimmable
- 0–10V

**Color (housing)**
- White
- 10,000 colors *

**Accessories**
- Junction box
- Mounting ring
- Flexible metal conduit
- Cover ring
- Plaster frame
- Ultra airtight I.C. box

ERCO Program 2020
Atrium double focus – Sophisticated light for high rooms

The lighting tool for perfectly glare-free light from the ceiling

Atrium double focus downlights are especially suitable for high rooms thanks to their high luminous flux and specific light distributions. The lens systems consisting of a collimator and Spherolit lens generate narrow downlight distributions, or as wallwashers create efficient, precise and highly uniform vertical lighting even at small distances to the wall. The black anti-glare cone achieves a discreet appearance with all versions, and also minimizes the glare for high visual comfort when looking into the luminaire. Concentrated general lighting is thus created in low rooms. For rooms with inclined ceilings, a recessed version is available that compensates for inclination angles up to 30°.

Related ranges

Atrium double focus
Surface-mounted luminaires
Page 218

Atrium double focus
Pendant luminaires
Page 236
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherlit lens
- Light distributions: flood, wide flood or wallwash

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Anti-glare cone
- Optical cut-off 40° from horizontal
- Black lacquered
  or
Anti-glare ring (double-focus for inclined ceilings)
- Cast aluminum or polymer, external white, internal black

4 Mounting ring
- Covered mounting detail
- Fixing for ceiling thicknesses of 1-25mm (size 3-4) or 1-30mm (size 5-10)
- Polymer, white
- For flush mounting: mounting ring to be ordered separately, fixing for ceiling thicknesses of 12.5-25mm

5 Housing
- Cast aluminum, designed as heat sink
- Rotatable through 360°
- For inclined ceilings: 0°-30° tilt. Lockable angles of tilt and rotation

6 Control gear
- Switchable, trailing edge dimmable or 0-10V dimmable
  Trailing edge dimmable version:
  - Operation at 120V: Dimming with external dimmers possible
Variants on request
- Anti-glare cone: coated matt gold, matt silver or matt champagne
- Mounting ring: 10,000 further colors
- Control: Lutron
  Please contact your ERCO consultant.
**Atrium double focus** Recessed luminaires

**Outstanding uniformity**
To meet the stringent standards of vertical illuminance, ERCO has developed luminaires specifically to produce exceptionally uniform levels of illuminance.

**Very high visual comfort**
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

**Wallwashing for high rooms**
Multi-storey spaces pose specific lighting challenges. Previously, wallwashers had to be mounted in very high-ceilinged rooms at a disproportionately great distance from the wall; however, the ideal position for the recently developed Atrium double-focus wallwashers is now at a distance of only one fifth of the height of the room.

**Also suitable for sloping ceilings**
As variants with a pivot angle of up to 30°, double focus downlights can also be mounted in sloping ceilings.

**Covered or flush mounting detail**
As standard, all recessed luminaires have overlapping installation details. Flush mounting rings are available as accessories.

---

**Special characteristics**

<table>
<thead>
<tr>
<th>Excellent visual comfort</th>
<th>ERCO high-power LEDs</th>
<th>Excellent thermal management</th>
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<td>Outstanding uniformity</td>
<td>Efficient SpheroLit technology</td>
<td>EMC-optimized</td>
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<tr>
<td>Wallwashing for high rooms</td>
<td>Optical cut-off 40° from horizontal</td>
<td>Various construction sizes</td>
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<td>For inclined ceilings</td>
<td>Different light colors</td>
<td>Lockable</td>
</tr>
<tr>
<td>Flush or covered mounting detail</td>
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<td>Tool-free mounting</td>
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</tbody>
</table>

**Switchable**

- 0–10V dimmable

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ERCO Program 2020
**Atrium double focus Recessed luminaires**

**Construction size**
- Size 3
- Size 5

**LED module**
- Maximum value at 4000K CRI 82
- 6W/825lm
- 10W/1230lm
- 18W/2475lm
- 28W/3690lm

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 82
- 3000K CRI 97
- 4000K CRI 92

**Light distribution**
- Downlights
- Lens wallwashers
- Flood
- Wallwash
- Wide flood

**Control**
- Switchable
- Trailing edge dimmable
- 0–10V
- 0–10V

**Accessories**
- Junction box
- Mounting ring
- Flexible metal conduit
- Cover ring
- Plaster frame
- Ultra airtight I.C. box
Size 7

24W/3300lm
38W/4920lm

2700K CRI 92 3500K CRI 92
3000K CRI 92 4000K CRI 82
3000K CRI 97 4000K CRI 92

Downlights Lens wallwashers

- Flood
- Wide flood

Switchable
Trailing edge
dimmable
0–10V 0–10V

Article numbers and planning data:
www.erco.com/014930-us

Design and application:
www.erco.com/atrium-df
Atrium double focus Recessed luminaires

Construction size

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LED module

Maximum value at 4000K CRI 82

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<tr>
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<th>Size 2</th>
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<td>10W/1230lm</td>
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Light color

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<td>3000K CRI 97</td>
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</table>

Light distribution

- Downlights
  - Flood
  - Wide flood

Control

- Switchable
- Trailing edge dimmable
- 0–10V

Accessories

- Junction box
- Mounting ring
- Flexible metal conduit
- Cover ring
- Plaster frame
- Ultra airtight I.C. box

198  ERCO Program 2020
CCK Centro
Cultural Kirchner,
Buenos Aires.
Architecture: B4FS
- Federico Bares,
  Enrique Bares,
  Nicolás Bares,
  Daniel Becker,
  Claudio Ferrari,
  Florencia Schnack,
  Buenos Aires.
Photography:
Edgar Zippel,
Berlin.

Article numbers and planning data:
www.erco.com/014930-us
Design and application:
www.erco.com/atrium-df
Compar linear – Powerhouse for linear aesthetics

Differentiated light from the ceiling in an innovative design
Compar gives architects, lighting designers and engineers broad scope for creative precision: With this range of innovative recessed luminaires, ERCO has extended the spectrum of round and square recessed lighting tools with a strong linear housing design. The slim luminaires—available from a width of 52mm—offer a subtle decorative detail in the ceiling while providing extremely efficient lighting tools with high standards of visual comfort. As an aesthetic alternative to linear fluorescent lamps, Compar supports individual ceiling-integrated lighting concepts in administration buildings, restaurants, cultural and office projects.

Related ranges
Compar linear
Surface-mounted luminaires
Page 224
Compar
for 2-circuit track
Page 140
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO lens system
- Made of optical polymer
- Light distributions: spot, flood, wide flood, extra wide flood, oval wide flood or oval flood
- Reflector (lens wallwasher)
- Polymer, silver vaporized, specular
- Softec lens

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)

3 Louvre
- Polymer, black lacquered or aluminum vaporized, silver, specular
- Downlight: cut-off angle 30° from horizontal
- Wallwasher: cut-off angle 70° from horizontal

4 Mounting frame
- Covered mounting detail
- Mounting for ceiling thicknesses to max. 1” / 25mm
- Polymer, white
- For flush mounting: mounting frame to be ordered separately, fixing for ceiling thicknesses of 1/2” - 1” / 12.5–25mm

5 Housing
- Aluminum profile, designed as heat sink

6 Control gear
- Trailing edge dimmable or 0-10V dimmable
  - Trailing edge dimmable version:
    - Operation at 120V: Dimming with external dimmers possible
    - Operation at 277V: switchable
- Variants on request
  - Anti-glare louvre: coated matt gold, matt silver or matt champagne
  - Mounting frame: 10,000 further colors
  - Control: Lutron

Please contact your ERCO consultant.

Design and application:
www.erco.com/compar-linear

Compar linear Recessed luminaires
Louvres for efficient visual comfort
A louvre is designed to restrict the view into the luminaire, achieving efficient visual comfort with an emission angle of 90°. An anti-glare louvre available in black or silver enables the luminaire to blend with the material and color of the ceiling.

Covered or flush mounting detail
Compar recessed downlights are supplied with an overlapping mounting detail. Flush mounting details are available as accessories to facilitate site logistics.

Shallow recess depth
In compact installation situations, every millimeter is decisive with the recess depth of a luminaire. ERCO has thus developed special luminaires for shallow recess depths that guarantee very good quality of light even in very tight installation conditions.

Special characteristics
- Excellent visual comfort
- For office workstation lighting as of UGR 13.4
- Flush or covered mounting detail
- Shallow recess depth
- ERCO high-power LEDs
- Efficient lens system
- Cut-off 30°/70° from horizontal
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Tool-free mounting
- Trailing edge dimmable
- 0–10V dimmable
Compar linear Recessed luminaires

**Construction size**

- 4 3/4"
- 8 1/4"

**LED module**

- Maximum value at 4000K CRI 82
- 6W/825lm
- 12W/1650lm

**Light color**

<table>
<thead>
<tr>
<th>Color</th>
<th>2700K CRI 92</th>
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<th>3000K CRI 97</th>
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</tbody>
</table>

**Light distribution**

- Downlights
  - Spot
  - Flood
  - Wide flood
  - Extra wide flood
- Downlights oval wide flood
  - Oval wide flood
- Downlights oval flood
  - Oval flood
- Lens wallwashers
  - Wallwash

**Control**

- Trailing edge dimmable
  - 0–10V

**Color (louvre)**

- Silver
- Black

**Accessories**

- Junction box
- Ultra airtight I.C. box
- Flexible metal conduit
- Mounting frame
- Plaster frame

204 ERCO Program 2020
Trailing edge
dimmable
0–10V 0–10V
Silver
Black

Downlights

Spot
Flood
Wide flood
Extra wide flood

Downlights oval wide flood

Oval wide flood
Downlights oval flood

Lens wallwashers
Wallwash

3000K CRI 97 4000K CRI 92
3000K CRI 92 4000K CRI 82
3000K CRI 92 4000K CRI 92

24W/3300lm
48W/6600lm

2700K CRI 92 3500K CRI 92
3000K CRI 92 4000K CRI 82
3000K CRI 92 4000K CRI 92

29 5/8”

Design and application:
www.erco.com/compar-linear

Downlights Downlights oval flood

Spot Oval flood
Flood Downlights oval wide flood
Wide flood Oval wide flood
Extra wide flood
Lens wallwashers
Wallwash

0–10V 0–10V
Silver
Black

Article numbers and planning data:
www.erco.com/016057-us

ERCO Program 2020 205
Lightgap – Emphasizing wall structures for a three-dimensional effect

Grazing light wallwashers accentuate surface texture on walls

Lightgap emphasizes the tactile qualities of architectural materials. The grazing light wallwasher brings out the finest wood or concrete texture as exquisitely as rough surfaces such as natural stone, thereby enabling the luminaire to set off historic features or regional materials. In contrast to conventional wallwashers which give walls a soft character, Lightgap adds an almost tactile dimension through high-contrast light and shadow effects. With its asymmetrical light distribution, the grazing light wallwasher can be positioned as close as 3 7/8" (100mm) from the wall and still produce an exceptionally uniform beam. The luminaire can be tilted conveniently by up to 10° in both directions. The resulting special rendering of vertical illuminance combines strikingly illuminated texture for scenic effect with efficient room lighting for places such as restaurants and hotels.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer
3 Housing
   - Aluminum profile
   - Arrangement as continuous band of light possible
   - Fixing clip: metal, black powder-coated
4 Control gear
   - Switchable or 0.10V dimmable

Variants on request
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/lightgap
Very high visual comfort
Due to the small installation dimensions of Lightgap grazing light wallwashers, the luminaires remain concealed and thus support ideal visual comfort. The shielding angle (α) of Lightgap depends on the ceiling height.

Continuous line arrangements are possible
Lightgap luminaires can be mounted directly together to achieve a very uniform distribution of brightness on the wall.

Grazing light wallwasher
The especially narrow light distribution of the grazing light wallwashers at short distances from the wall displays relief surfaces in a high quality and uniform way.
### Lightgap Recessed luminaires

#### Construction size

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 1/4&quot;</td>
<td>311mm x 57mm</td>
</tr>
<tr>
<td>15 29/32&quot;</td>
<td>912mm x 57mm</td>
</tr>
</tbody>
</table>

#### LED module

**Maximum value at 4000K CRI 82**

<table>
<thead>
<tr>
<th>Power</th>
<th>Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>6W</td>
<td>825lm</td>
</tr>
<tr>
<td>18W</td>
<td>2475lm</td>
</tr>
</tbody>
</table>

#### Light color

<table>
<thead>
<tr>
<th>Temperature</th>
<th>CRI</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>92</td>
<td>White</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>White</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>White</td>
</tr>
<tr>
<td>3000K</td>
<td>97</td>
<td>White</td>
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<tr>
<td>3500K</td>
<td>92</td>
<td>White</td>
</tr>
<tr>
<td>3500K</td>
<td>92</td>
<td>White</td>
</tr>
</tbody>
</table>

#### Light distribution

- **Grazing light wallwashers**
- **Grazing light**

#### Control

- **Switchable**
- 0–10V
- 0–10V

#### Color (housing)

- **White**
- 10,000 colors *
<table>
<thead>
<tr>
<th>Model</th>
<th>Color Temperature</th>
<th>Color Rendering Index</th>
<th>Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grazing light wallwashers</td>
<td>2700K CRI 92</td>
<td>3500K CRI 92</td>
<td>4950lm</td>
</tr>
<tr>
<td></td>
<td>3000K CRI 92</td>
<td>4000K CRI 82</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3000K CRI 97</td>
<td>4000K CRI 92</td>
<td></td>
</tr>
</tbody>
</table>

* available on request

Article numbers and planning data:
www.erco.com/015203-us

Design and application:
www.erco.com/lightgap

ERCO Program 2020  211
Pragmatic. Convincing.
Surface-mounted luminaires

Very pragmatic considerations often lead to the use of surface-mounted downlights—for example when the space required for recessing conventional downlights is not available in the ceiling. The decision in favor of a lighting concept with surface-mounted downlights considerably reduces installation complexity, for example in solid ceilings or in existing buildings.

Overview of all ranges from p. 216
www.erco.com/downlights-s/en_us
Surface-mounted luminaires Application examples

General lighting for modern offices
- Simple installation onto existing ceiling details
- High visual comfort for pleasant working light
- Easy mounting using optional spacers for surface cabling

Products used:
Compar linear page 224
This distinguishes our surface-mounted luminaires

Round or linear
Find the right luminaire shape for every room. Surface-mounted luminaires in round or linear design provide a high level of design flexibility.

Connectivity
All surface-mounted luminaires are supplied with control gear. Switchable and 0-10V dimmable control gear allow integration into any infrastructure.

Always the right light distribution
Whatever you wish to illuminate, with ERCO you’ll find the right light distribution. From wide beam floodlighting to the efficient illumination of workstations.
Various housing colors
Luminaires are available in different color versions for matching the luminaire color to the surroundings.

Simple installation due to surface-mounted solution
Surface-mounted luminaires are a compact solution for simple mounting on solid ceilings.

Customize
“ERCO individual” offers extensive options for customizing the product ranges: www.erco.com/individual

Anti-glare louvers for optimum visual comfort
Anti-glare louvers limit the view into the luminaire and enable high visual comfort even at a beam angle of 90°.

Suitable for office workstations
ERCO develops luminaires on the premise of efficient glare control and high visual comfort.

Oval wide flood approx. 55°x 90°

Products with these features can be found on the next page.
Indoors
Surface-mounted luminaires

Surface-mounted downlights

Atrium double focus
Ideal for high and very high rooms
Large lumen packages for high illuminances
General lighting with large luminaire spacing
Community, Contemplation

Compar linear
For office workstation lighting as of UGR<16
Slender profile
Four light distributions
Work
Atrium double focus – Sophisticated light for high rooms

Versatile, powerful lighting technology and minimalist design – for nuanced lighting from large heights

With high lumen output and good glare control, Atrium double focus luminaires are particularly suitable for use in high rooms, for example in the foyers of public buildings and sacred spaces. The neutrally designed cylindrical housing of the surface-mounted luminaires is given a striking design accent with the light-tight ventilation gap. The lighting technology with collimators and Spherolit lenses creates narrow downlight light distributions and thus provides precise illumination from large heights. In addition to recessed luminaires, the family also includes pendant luminaires with an optional indirect light component. All Atrium luminaires have a black anti-glare cone for particularly high visual comfort.

Related ranges

Atrium double focus
Recessed luminaires
Page 192

Atrium double focus
Pendant luminaires
Page 236
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: flood or wide flood

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Cylinder
- White (RAL9002), black or silver
- Cut-off angle 30° or 40° from horizontal.
- Aluminium profile, powder-coated, interior black-coated
- Cone: polymer, black
- Ceiling fixture: metal

4 Control gear
- 0-10V dimmable

Variants on request
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/atrium-df-s
**Large lumen packages for very high illuminances**
The good glare control of the lens systems enables large lumen packages with high visual comfort.

**Very high visual comfort**
ERCO has developed luminaires with special housing designs and high quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

**Suitable for high rooms**
Theaters, atria and lecture halls are usually illuminated from the ceiling and therefore from a large height. Efficient lighting solutions for high rooms have luminaires that project the light precisely onto the surface to be illuminated, in this way avoiding spill light.

### Special characteristics

- **Excellent visual comfort**
- **Large lumen packages for very high illuminances**
- **for high rooms**
- **ERCO high-power LEDs**
- **Efficient Spherolit technology**
- **Cut-off 30°/40° from horizontal**
- **Different light colors**
- **Various housing colors**
- **Various construction sizes**

**0–10V dimmable**
**Atrium double focus Surface-mounted luminaires**

**Construction size**

- **Size 5**
- **Size 7**

**LED module**

- Maximum value at 4000K CRI 82
  - **Size 5**
    - 24W/3000lm
    - 38W/4920lm
  - **Size 7**
    - 48W/6600lm
    - 76W/9840lm

**Light colour**

- **Size 5**
  - 2700K CRI 92
  - 3000K CRI 92
  - 3000K CRI 97
- **Size 7**
  - 2700K CRI 92
  - 3000K CRI 92
  - 3000K CRI 97

**Light distribution**

- Surface-mounted downlights
  - **Flood**
  - **Wide flood**

**Control**

- **0–10V**

**Color (housing)**

- **White**
- **Silver**
- **Black**
  - 10,000 colors *

---

222 ERCO Program 2020
Article numbers and planning data:
www.erco.com/017672-us
Design and application:
www.erco.com/atrium-df-s
* available on request
Compar linear – Powerhouse for linear aesthetics

Versatile, elegant surface-mounted luminaires with a linear profile:
Two linear Compar modules, united in an elegant, slender profile:
Compar linear surface-mounted luminaires feature uncomplicated installation, and are simultaneously high quality tools for illuminating offices and public buildings. The innovative linear lighting technology offers various wattages and light distributions – for general lighting as well as for the standard-compliant, glare-free lighting of office workplaces. The catches for fixing to the ceiling fitting are discreetly concealed in a slender shadow gap. These luminaires therefore expand the Compar family into a range that can be used to solve a wide variety of lighting tasks in a uniform way.

Related ranges
Compar linear
Recessed luminaires
Page 200
Compar
for 2-circuit track
Page 140
Compar linear Surface-mounted luminaires

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO lens system
   - Made of optical polymer
   - Light distributions: wide flood, extra wide flood, oval wide flood or oval flood

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)

3 Louvre
   - Polymer, black lacquered or aluminum vaporized, silver, specular
   - Cut-off angle 30° from horizontal

4 Housing
   - White (RAL9002)
   - Aluminum profile, powder-coated
   - Ceiling fixture: metal

5 Control gear
   - Switchable or 0-10V dimmable

Variants on request
- Anti-glare louvre: coated matt gold, matt silver or matt champagne
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/compar-linear-s
Compar linear Surface-mounted luminaires

Louvres for efficient visual comfort
A louvre is designed to restrict the view into the luminaire, achieving efficient visual comfort with an emission angle of 90°. An anti-glare louvre available in black or silver enables the luminaire to blend with the material and color of the ceiling.

Special characteristics
- Excellent visual comfort
- ERCO high-power LEDs
- Efficient lens system
- Cut-off 30° from horizontal
- Different light colors
- Excellent thermal management
- EMC-optimized
- Switchable 0–10V
- 0–10V dimmable
### Compar linear Surface-mounted luminaires

**Construction size**

<table>
<thead>
<tr>
<th>Width</th>
<th>47 1/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>Height</td>
<td>75mm</td>
</tr>
</tbody>
</table>

**LED module**

Maximum value at 4000K CRI 82

- 24W/1300lm
- 38W/4920lm

**Light color**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>CRI</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>92</td>
<td>White/Silver 10,000 colors */ Silver</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>White/Black 10,000 colors */ Black</td>
</tr>
<tr>
<td>3000K</td>
<td>97</td>
<td>Silver</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>Black</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>White/Silver 10,000 colors */ Black</td>
</tr>
<tr>
<td>4000K</td>
<td>82</td>
<td>White/Silver 10,000 colors */ Silver</td>
</tr>
</tbody>
</table>

**Light distribution**

- Surface-mounted downlights
- Surface-mounted downlights oval wide flood
- Wide flood
- Oval wide flood
- Extra wide flood
- Surface-mounted downlights oval flood
- Oval flood

**Control**

- Switchable

**Color (housing/louvre)**

- White/Silver
- White/Black

**Accessories**

- 0
- 1
- 4
- 0
- Spacer set

---

**ERCO Program 2020**

Erzeugt mit dem DocScape Publisher, Regelwerk $Rev: 14899 $, am 2020-1-27 um 17:04
Succinct. Versatile.

Pendant luminaires

Pendant luminaires provide economical general lighting with a high level of visual comfort and are simultaneously a succinct detail of the architecture. They are often used when room zones or focal points are highlighted by light, but also where they are to be marked as architectural elements by the luminaires themselves.

Overview of all ranges from p. 234
www.erco.com/pendant/en_us
Pendant luminaires Application examples

Lighting from large heights
- High lumen-output luminaires for use in high rooms
- Narrow downlight distributions for precise lighting from large heights
- Optional indirect component brightens the spatial impression and softens contrasts

Products used:
Atrium p. 236
This distinguishes our pendant luminaires

**High rooms**
Particularly high rooms such as airport terminals and concert halls demand high-lumen output luminaires. With pendant luminaires up to 9840 lumens, you can illuminate efficiently and with high visual comfort even from very large distances.

**Integrated uplight**
If light should also display and highlight the ceiling, Atrium double focus pendant luminaires provide new options. The integrated uplight particularly accentuates the dimension of high rooms.

**Different sizes**
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer appropriate solutions for a wide variety of lighting tasks.

Direct/indirect

Direct

Wide flood
>45°

Flood
25° – 35°
Efficient floor lighting

Wide flood light distributions ensure uniform brightness—even with very large luminaire spacing.

Customize “ERCO individual” offers extensive options to customize product ranges.

www.erco.com/individual
Indoors Pendant luminaires

Pendant downlights

240/2380lm – 11400/14760lm

Atrium double focus

Indirect lighting available
Ideal for high and very high rooms
Very high visual comfort
Community, Contemplation
Atrium double focus – Sophisticated light for high rooms

Versatile, powerful lighting technology and minimalist design – for nuanced lighting from large heights

With high lumen output and good glare control, Atrium double focus luminaires are particularly suitable for use in high rooms, for example in the foyers of public buildings and sacred spaces. The neutrally designed cylindrical housing of the pendant luminaires is given a striking design accent with the light-tight ventilation gap. The lighting technology with collimators and Spherolit lenses creates narrow downlight light distributions and thus provides precise illumination from large heights. The optional indirect component creates atmosphere and reduces contrasts. Their low weight allows them to be suspended easily via the power cord. All Atrium luminaires have a black anti-glare cone for particularly high visual comfort.

Related ranges

Atrium double focus
Recessed luminaires
Page 192

Atrium double focus
Surface-mounted luminaires
Page 218
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens (light emission below)
- Light distributions: flood or wide flood
- Diffuser (light emission upwards)
- Polymer

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer

3 Cylinder
- White (RAL9002), black or silver
- Aluminum profile, powder-coated, interior black-coated
- Cut-off angle 30° or 40° from horizontal
- Cone: polymer, black

4 Control gear
- 0-10V dimmable

5 Ceiling fixture with canopy
- White or black
- Connection cable with strain relief

Variants on request
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/atrium-df-pendant
**Atrium double focus** Pendant luminaires

Large lumen packages for very high illuminances
The good glare control of the lens systems enables large lumen packages with high visual comfort.

Very high visual comfort
ERCO has developed luminaires with special housing designs and highquality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Suitable for high rooms
Theaters, atria and lecture halls are usually illuminated from the ceiling and therefore from a large height. Efficient lighting solutions for high rooms have luminaires that project the light precisely onto the surface to be illuminated, in this way avoiding spill light.

**Special characteristics**

- Excellent visual comfort
- Large lumen packages for very high illuminances
- Suitable for high rooms
- ERCO high-power LEDs
- Efficient Sphorlit technology
- Cut-off 30°/40° from horizontal
- Different light colors
- Excellent thermal management
- 0-10V dimmable
- EMC-optimized
- Various housing colors
- Various construction sizes

ERCO Program 2020 239
**Atrium double focus** Pendant luminaires

<table>
<thead>
<tr>
<th>Construction size</th>
<th>Size 5</th>
<th>Size 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED module</td>
<td>24W/3300lm</td>
<td>48W/6000lm</td>
</tr>
<tr>
<td></td>
<td>38W/4920lm</td>
<td>76W/9040lm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light color (direct)</th>
<th>2700K CRI 92</th>
<th>3500K CRI 92</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3000K CRI 92</td>
<td>4000K CRI 82</td>
</tr>
<tr>
<td></td>
<td>3000K CRI 97</td>
<td>4000K CRI 82</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light distribution</th>
<th>Pendant downlights</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flood</td>
</tr>
<tr>
<td></td>
<td>Wide flood</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control</th>
<th>0–10V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0–10V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color (housing)</th>
<th>White</th>
<th>Silver</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Black</td>
<td>10,000 colors *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Pendant tube</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>suspension</td>
</tr>
</tbody>
</table>

240  ERCO Program 2020
Construction size

Size 5

Size 7

LED performance class

36W/4950lm 57W/7380lm

72W/9900lm 114W/14760lm

Light color (direct)

2700K CRI 92 3500K CRI 92

3000K CRI 92 4000K CRI 82

3000K CRI 97 4000K CRI 92

Light color (indirect)

2700K CRI 92 3500K CRI 92

3000K CRI 92 4000K CRI 82

3000K CRI 97 4000K CRI 92

Light distribution

Pendant downlights

Flood

Wide flood

0–10V 0–10V

0–10V 0–10V

Color (housing)

White Silver Black 10,000 colors *

White Silver Black 10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/017686-us

Design and application:
www.erco.com/atrium-df-pendant

ERCO Program 2020 241
Small. Effective.
Recessed floor luminaires

Recessed floor luminaires attract attention because the existence of light sources on the ground as well as the direction of light from below to above are unusual and therefore particularly noticeable. They also assume directive lighting tasks, e.g. by marking pathways or highlighting entrances.

Overview of all ranges: from p. 246
www.erco.com/recessed-floor-luminaires/en_us
**Light for multifunctional rooms**

- Luminaires available as directional spotlights in pivotable versions or fixed for perfect grazing light
- Discreet stainless steel frame for elegant installation in the ground
- Shallow recess depth of only 4” allows versatile use

Products used:
Nadir IP67 round p. 248

---

**Effective display of merchandise**

- Available in round and square
- Various light colors available for any application
- Luminaires with IP67 are protected against external influences and designed for almost all applications

Products used:
Nadir IP67 square p. 254
Grazing light wallwasher

Grazing light wallwashers create effective light which highlights the texture of surfaces. For precise alignment, the luminaire can be tilted by up to 10° in the housing and locked with a fixing screw.

Directional luminaires

Directional luminaires are used for accent lighting on objects or architectural details. They can be flexibly aligned up to an angle of 30° and feature rotationally symmetric light distribution.

Available in round or square

The ERCO system design includes round and square luminaires. The luminaires can thus be adapted to the architecture and the surroundings.

Tiltable

The luminaires can be adjusted simply and precisely for optimum light beam alignment. The light is thus emitted to precisely where it is required.

This distinguishes our recessed floor luminaires
Flush or covered installation possible

Nadir recessed floor luminaires can be installed with a cover frame to cover the ground cut-out or with a flush-ground trim detail.

Shallow recess depth

For compact installation situations, ERCO has developed luminaires with a shallow recess depth that guarantee good quality of light even in confined installation conditions.

Inground housing with tolerances

The height-adjustable frame of the inground housing enables a compensation of dimensional tolerances between the bare floor and the finished floor or in the case of slanting floors. The low recess depth from 4” enables use in many areas. Even mounting in floating floor screed with sound insulation requirements is easily possible.

Protection rating IP67

Luminaires with IP67 protection rating are dusttight and protected against the consequences of temporary immersion.

Customize

“ERCO individual” offers extensive options to individualize product ranges:
www.erco.com/individual

Products with these features can be found on the next page.
### Indoors

**Recessed floor luminaires**

<table>
<thead>
<tr>
<th>Nadir IP67 round</th>
<th>248</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impressive grazing light</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Suitable for wet location (IP67)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Discreet stainless steel framing</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Hospitality, Community</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nadir IP67 square</th>
<th>254</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impressive grazing light</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Suitable for wet location (IP67)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Discreet stainless steel framing</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Hospitality, Community</strong></td>
<td></td>
</tr>
</tbody>
</table>
Nadir IP67 round – Elegant down to the last detail

Nadir ensures maximum visual comfort for light from indoor floor areas. Bringing out wall surfaces, effectively illuminating architecture, marking out pathways: Nadir IP67 for indoor applications performs these and other tasks with peerless elegance. In square or round versions and with a discreet stainless steel mounting frame, the luminaire’s mounting is virtually flush with the floor. Needless to say, it can also be mounted covering the surrounding cut-out. Nadir IP67 is a highly flexible system, letting you vary the recess depth to suit the actual floor conditions.

Related ranges

Nadir IP67 square
Recessed floor luminaires
Page 254
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: spot or oval flood

2 ERCO LED-module
   - High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
   - Collimating lens made of optical polymer
   - 0°-25° tilt
   - Directional spotlight rotatable through 90°

3 Perforated shield
   - Aluminum, silver, highly specular anodized

4 Safety glass
   - Clear, 1/4” / 6mm
   - Load 1124lb.wt / 5kN

5 Housing
   - For mounting in accessories
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Black, double powder-coated
   - Cable 3xAWG14, L 19 11/16” / 500mm
   - Mounting accessories to be ordered separately
   - To avoid submersion in standing water provide local drainage

6 Control gear
   - Switchable

Suitable for wet location (IP67)
Dust-proof and protected against immersion damage

Design and application:
www.erco.com/nadir-round
**Nadir IP67 round**  
Recessed floor luminaires

**Available in round or square**  
The ERCO system design includes round and square versions to provide luminaires suited to the architecture and surroundings.

**Grazing light**  
Grazing light wallwashers need to be positioned close to the wall for ideal effects.

**Shallow recess depth**  
For compact mounting situations, ERCO has developed luminaires with a shallow recess depth to provide excellent light quality in areas with limited installation space.

<table>
<thead>
<tr>
<th>Special characteristics</th>
<th>ERCO high-power LEDs</th>
<th>Excellent thermal management</th>
<th>Switchable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grazing light wallwasher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available in round or square</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shallow recess depth</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Different light colors</td>
<td>Efficient Spheronit technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMC-optimized</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flush or covered mounting detail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wet location</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ERCO Program 2020  
251
**Nadir IP67 round** Recessed floor luminaires

**Construction size**
- Ø 5" (125mm)
- 97mm (3 13/16"

**LED module**
- Maximum value at 4000K CRI 82

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 4000K CRI 92
- 4000K CRI 92

**Light distribution**
- Grazing light wallwashers
- Directional luminaires
  - Oval flood
  - Spot

**Control**
- Switchable

**Accessories**
- Junction box
- Mounting ring
- Recessed housing
- Suction holder

---

252  ERCO Program 2020
Steigenberger Hotel Handelshof, Leipzig. Interior and lighting design: Markus-Diedenhofen Innenarchitektur, Reutlingen.
Nadir IP67 square – Elegant down to the last detail

Nadir ensures maximum visual comfort for light from indoor floor areas. Bringing out wall surfaces, effectively illuminating architecture, marking out pathways: Nadir IP67 for indoor applications performs these and other tasks with peerless elegance. In square or round versions and with a discreet stainless steel mounting frame, the luminaire’s mounting is virtually flush with the floor. Needless to say, it can also be mounted covering the surrounding cut-out. Nadir IP67 is a highly flexible system, letting you vary the recess depth to suit the actual floor conditions.

Related ranges

Nadir IP67 round
Recessed floor luminaires
Page 248
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: spot or oval flood

2 ERCO LED-module
- High-power LEDs: warm white (2700K or 3000K) or neutral white (3500K or 4000K)
- Collimating lens made of optical polymer
- 0°-25° tilt
- Directional spotlight rotatable through 90°

3 Perforated shield
- Aluminum, silver, highly specular anodized

4 Safety glass
- Clear, 1/4” / 6mm
- Load 1124 lb wt / 5kN

5 Housing
- For mounting in accessories
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Black, double powder-coated
- Cable 3xAWG14, L 19 11/16” / 500mm
- Mounting accessories to be ordered separately
- To avoid submersion in standing water provide local drainage

6 Control gear
- Switchable

Suitable for wet location (IP67)
Dust-proof and protected against immersion damage

Design and application:
www.erco.com/nadir-square
Nadir IP67 square Recessed floor luminaires

Grazing light wallwashers need to be positioned close to the wall for ideal effects.

Shallow recess depth
For compact mounting situations, ERCO has developed luminaires with a shallow recess depth to provide excellent light quality in areas with limited installation space.

Available in round or square
The ERCO system design includes round and square versions to provide luminaires suited to the architecture and surroundings.

Special characteristics
- Grazing light wallwasher
- Available in round or square
- Shallow recess depth
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light colors
- Switchable
- Excellent thermal management
- EMC-optimized
- Flush or covered mounting detail
- Wet location
- Recessed floor luminaires

ERCO Program 2020
Nadir IP67 square  Recessed floor luminaires

**Construction size**
- 4 9/16"
- 3 13/16"

**LED module**
- Maximum value at 4000K CRI 82
- 3W/450lm

**Light color**
- 2700K CRI 92
- 3000K CRI 92
- 3000K CRI 97
- 3500K CRI 92
- 4000K CRI 82
- 4000K CRI 92

**Light distribution**
- Grazing light wallwashers
- Directional luminaires
- Oval flood
- Spot

**Control**
- Switchable

**Accessories**
- Junction box
- Mounting frame
- Recessed housing
- Suction holder
Weather-resistant. Precise. Projectors, floodlights and wallwashers

Projectors, floodlights, and wallwashers enable effective lighting in outdoor areas. With different sizes and a wide range of lumen classes, smaller buildings can be illuminated just as impressively as monumental facades. Projectors are ideal for rich-contrast accenting without spill light. Floodlights and wallwashers achieve the uniform illumination of surfaces – even from long projection distances and under difficult installation conditions. The lighting tools simultaneously meet all requirements for high visual comfort in outdoor areas.

Overview of all ranges: from page 268
www.erco.com/projectors/en_us
Illuminating large buildings

- High lumen output for light from large distances
- Precise beam angles accurately model facade details
- Versatile mounting options for simple mounting to roofs, masts, and facades

Products used:
Lightscan page 302
Gecko page 276

Setting impressive accents

- Compact luminaire sizes are ideal for short lighting distances
- Many light distributions for accentuation without spill light
- Simple mounting on the ground

Products used:
Kona XS page 270
Projectors, floodlights and wallwashers  Application examples

Light for large plazas
- High visual comfort thanks to precise beam angle
- Efficient LED lighting technology for economical and low-maintenance operation
- Accessories for various mounting options

Products used:
Kona page 288

Light for urban life
- Wallwashing creates orientation and brightness
- Low maintenance and durable due to luminaires with L90/B10

Products used:
Lightscan page 302
Light for landmarks

- Narrow light distributions ensure precise accents
- Small luminaire dimensions for unobtrusive light sources
- Low-maintenance optoelectronics for minimum operating costs

Products used:
Lightscan page 302
These lighting tools solve your lighting tasks

You'd like to illuminate large facades with just a few luminaires? You'd like to illuminate smaller sculptures outdoors?

Wallwashers for uniform lighting with wide luminaire spacing
- High-efficiency lighting technology
- Diverse mounting options
- Ideal for long projection distances

Precise projectors for high-contrast displays
- Compact sizes for almost invisible light sources
- Seven light distributions
- Adjustable and maintenance-free
You have particularly high requirements for outdoor projectors?

Projectors with the characteristics of museum spotlights for outdoors

- Highest precision for maximum illuminance on the target surface
- Seven light distributions
- High quality optics for demanding visual tasks
This distinguishes our projectors, floodlights and wallwashers.

**Light quality with precision**

ERCO luminaires project their light via highly efficient Spherolit technology. This creates precisely defined beams of light without spill light. Noteworthy is that high illuminance is achieved even with small wattages.

<table>
<thead>
<tr>
<th>Beam Type</th>
<th>Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow</td>
<td>&lt; 10°</td>
</tr>
<tr>
<td>Spot</td>
<td>10°~20°</td>
</tr>
<tr>
<td>Flood</td>
<td>25°~35°</td>
</tr>
<tr>
<td>Wide flood</td>
<td>&gt; 45°</td>
</tr>
</tbody>
</table>

**Wet location**

Luminaires marked with "wet location" are suitable for both outdoor and indoor use.

**From small to large**

You'll find the right size and lumen package for every lighting task: perfect from small gardens to monumental facades.

Products with these features can be found on the next page.

Wet location

Luminaires marked with "wet location" are suitable for both outdoor and indoor use.

**From small to large**

You'll find the right size and lumen package for every lighting task: perfect from small gardens to monumental facades.

Products with these features can be found on the next page.
**Outstanding visual comfort**

To achieve a particularly high level of visual comfort, ERCO has developed luminaires that ideally shield the light source thanks to their special housing design.

**Mounting in any location**

Whether on the ground, on facades or high masts—design flexibly with projectors. Find suitable accessories for any mounting situation—for example on cross-beams, ground spikes or mast clamps.

**Seven light distributions**

At ERCO you’ll find the right lighting tools: projectors, floodlights and wallwashers illuminate your projects precisely—from accentuating small details to flooding towering facades.

**Extra wide flood > 80°**

**Oval flood approx. 20°x 60°**

**Extremely durable**

Due to their excellent maintenance of luminous flux, ERCO luminaires feature high security of investment: L90/B10 with up to 50,000 operating hours. At 5 hours a day, this means over 25 years of low-maintenance operation with outstanding photometric characteristics—ideal for difficult-to-access mounting locations.

**Customize**

“ERCO individual” offers extensive options to customize product ranges: erco.com/individual

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<table>
<thead>
<tr>
<th>Projectors, floodlights and wallwashers</th>
<th>260</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outdoors</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Projectors, floodlights and wallwashers</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Small luminaire dimensions</th>
<th>Small lumen packages available</th>
<th>Very high visual comfort</th>
<th>Hospitality, Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kona XS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gecko</td>
<td></td>
<td></td>
<td>High visual comfort</td>
<td>Public, Community, Contemplation</td>
</tr>
<tr>
<td>Beamer</td>
<td></td>
<td></td>
<td>Oval flood freely rotatable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Wallwashers and ceiling-washers</strong></th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Extremely uniform wall/ceiling-washlighting</th>
<th>Large luminaire spacing</th>
<th>Public, Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lightscoop</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Kona XS – Straightforward and compact

The small, sophisticated tool for outdoor lighting
Not every outdoor lighting project requires a powerhouse approach—especially when used in frequently populated urban areas, in parks or around buildings. Kona XS is the smallest outdoor projector in the ERCO range, with a lighting technology reduced to what is essential—brilliant light of the familiar superb quality provided by Spherolit LED lens systems, with a huge range of distribution options. This enables precise and efficient lighting concepts without detracting from the magic of the night. Kona XS adopts the modern, tapered housing design of its larger cousins in the Kona range, with a smooth yet robust aluminum housing designed for easy installation and maintenance.

Related ranges
Kona
Projectors, floodlights, wallwashers
Page 288
Kona XS Projectors, floodlights, wallwashers

Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood or wallwash

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 Luminaire head and housing
   - Graphit m
   - Corrosion-resistant aluminum, no-rinse surface treated
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - Anti-glare cone: polymer, black lacquered
   - Non-reflective safety glass

4 Control gear
   - Switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/kona-xs
Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Small luminaire dimensions are particularly advantageous in compact room situations.

Kona XS Projectors, floodlights, wallwashers

- Small luminaire dimensions
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Pivotable through 130°
- Switchable
- Wet location
Kona XS Projectors, floodlights, wallwasher

Construction size

- Ø 3 1/8"

LED module
- Maximum value at 4000K CRI 82
- 6W/825lm
- 2W/275lm (Narrow spot)

Light color

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 92 *
- 3000K CRI 97 *
- 4000K CRI 92
- 4000K CRI 92 *

Light distribution

- Projectors
  - Narrow spot
- Floodlights
  - Wide flood
- Spot
  - Extra wide flood
- Flood
  - Lens wallwashers
- Wallwash

Control

- Switchable

Color (housing)

- Graphit m
- 10,000 colors *

Accessories

- Ground spike
- Mounting plate
Gecko – Powerful light from a virtually invisible source

Glare-free accent lighting, floodlighting and wallwashing in the outdoor area
Gecko emanates refined power despite its compact form. This is achieved by combining a slightly conical shape with quality design details such as seamless transitions. With its fluid, round outlines, this outdoor lighting tool enhances gardens and parks as an adaptable design feature which integrates flexibly in any surroundings. The small housing conceals sophisticated photometric properties: Optionally producing a uniform wide beam or sharp-edged accent light, Gecko creates impressive façade and other outdoor lighting effects that require just a few of these luminaires. Excellent glare control ensures accent lighting, floodlighting and wallwashing from a virtually invisible light source. With a luminaire head that can be tilted and rotated in any direction, Gecko is quick and easy to adjust precisely to the required position, as its maintenance-free LED optoelectronics help to reduce the operating costs.

Related ranges
Grasshopper
Projectors, floodlights, wallwashers
Page 296
Gecko Projectors, floodlights, wallwashers

Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood 360° rotation

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 Light head
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Non-reflective safety glass

4 Housing and hinge
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - 130° tilt, 360° rotation
   - Hinge with scaling and inner cable routing

5 Mounting plate
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Optimized surface for reduced accumulation of dirt

6 Control gear
   - Trailing edge dimmable
   - Operation at 120V: Dimming with external dimmers possible
   - Operation at 277V: switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/gecko

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**Gecko** Projectors, floodlights, wallwashers

**Oval flood freely rotatable**
The round oval flood Spherolit lens can be freely rotated with all luminaires to optimally align the light to various objects.

**Improved visual comfort**
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

**Small luminaire dimensions**
Small luminaires are discreet and place the focus on the light itself. Small luminaire dimensions are particularly advantageous in compact room situations.

---

**Special characteristics**

- Improved visual comfort
- Oval flood, freely rotatable
- Small luminaire dimensions

---

**ERCO high-power LEDs**

- Excellent thermal management
- Efficient Spherolit technology

---

**Different light distributions**

- Degree scale for good adjustability
- Pivotable through 130°

---

**Different light colors**

- Wet location

---

**Trailing edge dimmable**
**Gecko Projectors, floodlights, wallwashers**

**Construction size**

![Diagram of construction size](image)

**LED module**

- Maximum value at 4000K CRI 82
  - 12W/1650lm
  - 18W/2475lm
- 8W/1100lm (Narrow spot)

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

**Light distribution**

- Projectors
  - Narrow spot
  - Spot
  - Flood
- Floodlights
  - Wide flood
  - Extra wide flood
  - Oval flood
  - Lens wallwashers
  - Wallwash

**Control**

- Trailing edge dimmable

**Color (housing)**

- Graphit m
- 10,000 colors *

**Accessories**

- Ground spike
- Spacer

---

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Beamer – Maximum visual comfort for superior standards

In a typical spotlight design, the Beamer range delivers efficient accentuation and floodlighting of outdoor areas. Beamer stands for striking light effects for monuments, structures and vegetation. Protected by an exceptionally durable housing, the projector offers highly variable solutions for your lighting tasks. An additional snoot provides enhanced glare control for even higher levels of visual comfort and makes certain that the light shines only, and precisely, where it is needed. The mounting accessories help you install the Beamer wherever you need it. Thanks to the graduations on the hinge, the luminaire can be aligned with repetitive accuracy. The maintenance-free optoelectronics of the Beamer guarantee maximum efficiency to save our resources and result in lower operating costs.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: narrow spot, spot, flood, wide flood, extra wide flood or oval flood
- Oval flood 360° rotation

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer

3 Snoot
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Graphit m, double powder-coated
- Without stray light
- Safety glass

4 Housing
- Graphit m
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Double powder-coated
- Optimized surface for reduced accumulation of dirt

5 Control gear
- Switchable or trailing edge dimmable
  - Trailing edge dimmable version:
    - Operation at 120V: Dimming with external dimmers possible
    - Operation at 277V: switchable

6 Mounting plate and hinge
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Graphit m, double powder-coated
- Mounting plate: rotatable through 300°
- Hinge: 130° tilt
- Internal wiring
- Dial: corrosion-resistant aluminum

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/beamer

Beamer Projectors, floodlights
**Beamers** Projectors, floodlights

**Oval flood freely rotatable**
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

**Various construction sizes**
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

**Lockable**
To ensure continuously fixed alignment of the light beam, the alignment can be securely locked.

**Special characteristics**
- Oval flood, freely rotatable
- Various construction sizes
- Lockable
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Degree scale for good adjustability
- Pivotable through 130°
- Wet location
- Accessory for mounting variants
- Switchable
- Trailing edge dimmable

ERCO Program 2020 285
**Beamer** Projectors, floodlights

**Construction size**

- Ø 5 5/16" (d = 135mm)
- Ø 8 1/16" (d = 205mm)

**LED module**

- Maximum value at 4000K CRI 82

<table>
<thead>
<tr>
<th>Power</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12W/1650lm</td>
<td>4W/550lm (Narrow spot)</td>
</tr>
<tr>
<td>36W/4950lm</td>
<td>14W/1925lm (Narrow spot)</td>
</tr>
</tbody>
</table>

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 4000K CRI 92 *
- 3500K CRI 92 *
- 4000K CRI 82
- 3000K CRI 92
- 4000K CRI 92 *

**Light distribution**

- Projectors: Narrow spot, Spot, Flood
- Floodlights: Wide flood, Extra wide flood, Oval flood

**Control**

- Switchable
- Trailing edge dimmable **

**Color (housing)**

- Graphit m
- 10,000 colors *

**Accessories**

- Ground socket
- Attachment
- Concrete anchor
- Clamping plate
- Mounting plate
- Spacer
- Cantilever arm

---

**ERCO Program 2020**

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German Pavilion, "Fields of Ideas", Expo, Milan. 
Architecture: Schmidhuber, Munich / Milla & Partner, Stuttgart. 
Photography: Dirk Vögel, Altena.

* available on request
** Only for narrow spot light distribution
Kona – Maximum visual comfort for a wide range of lighting tasks

High luminous flux and maximum visual comfort for lighting tasks in the outdoor area
Kona is ideal for illuminating large buildings and objects. The round, conically-shaped luminaire housing provides outstanding visual comfort with very good shielding properties. The family of luminaires consists of several sizes with diverse light distributions – ranging from point-based lighting from extended distances with narrow Spherolit lenses and wide flood and oval flood distributions to homogenous wallwashing with a wallwash lens. Its high luminous flux makes Kona an ideal lighting tool for large projection distances and wide spacing between luminaires. Its circular design means the luminaire can be flexibly used in highly different room situations and architectural styles. The maintenance-free, durable optoelectronics reduce operating costs and also enable operation in difficult-to-access installation locations. Kona features a weather-resistant housing and is precisely aligned thanks to a pan-and-tilt mounting plate. With extensive mounting accessories the luminaire is also easy to install in a wide variety of outdoor applications.

Related ranges

Kona XS
Projectors, floodlights, wallwashers
Page 270
**Structure and characteristics**

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 **ERCO Spherolit lens**
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood 360° rotation
   - Narrow spot, spot and flood: cut-off angle 30°

2 **ERCO LED-module**
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 **Housing**
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - Anti-glare cone: polymer, black lacquered
   - Safety glass

4 **Control gear**
   - Switchable or 0-10V dimmable

5 **Mounting plate and hinge**
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment or polymer
   - Graphite m, double powder-coated or coated
   - 90° tilt, 300° rotation or 120° tilt, 360° rotation
   - Internal wiring

Suitable for wet locations (IP65)

Dust-proof and water jet-proof

**Variants on request**

- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

---

Design and application:
www.erco.com/kona
Improved visual comfort
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Large lumen packages for very high illuminances
The attention of the viewer can be focused via contrasting accents. ERCO offers high-performance luminaires with large lumen packages for this purpose.

Oval flood freely rotatable
The oval flood Spherolit lens can be freely rotated with round luminaire heads to optimally match the lighting to various objects.

Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

Special characteristics
- Improved visual comfort
- Large lumen packages for very high illuminances
- Oval flood, freely rotatable
- Various construction sizes
- ERCO high-power LEDs
  - Efficient Spherolit technology
- Excellent thermal management
- Switchable 0–10V dimmable
- EMC-optimized
- Degree scale for good adjustability
- Pivotable through 90°
- Lockable
- Wet location
- Accessory for mounting variants

ERCO Program 2020 291
Kona Projectors, floodlights, wallwasher

**Construction size**

<table>
<thead>
<tr>
<th>Ø 4 1/4&quot;</th>
<th>Ø 6 5/16&quot;</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Light color</th>
<th>Light color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K CRI 92 *</td>
<td>2700K CRI 92 *</td>
</tr>
<tr>
<td>3000K CRI 92</td>
<td>3000K CRI 92</td>
</tr>
<tr>
<td>3000K CRI 97 *</td>
<td>3000K CRI 97 *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light distribution</th>
<th>Light distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projectors</td>
<td>Floodlights</td>
</tr>
<tr>
<td>Narrow spot</td>
<td>Wide flood</td>
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<tr>
<td>Spot</td>
<td>Extra wide flood</td>
</tr>
<tr>
<td>Flood</td>
<td>Oval flood</td>
</tr>
<tr>
<td>Lens wallwashers</td>
<td>Wallwash</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switchable **</td>
<td>0–10V 0–10V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color (housing)</th>
<th>Color (housing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphit m</td>
<td>Graphit m</td>
</tr>
<tr>
<td>10,000 colors *</td>
<td>10,000 colors *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground spike</td>
<td>Mounting plate</td>
</tr>
<tr>
<td>Ground socket</td>
<td>Cantilever arm</td>
</tr>
<tr>
<td>Concrete anchor</td>
<td>Attachment</td>
</tr>
<tr>
<td>Clamping plate</td>
<td>Adapter piece</td>
</tr>
<tr>
<td>Adapter piece</td>
<td>Spacer</td>
</tr>
</tbody>
</table>

**LED module**

Maximum value at 4000K CRI 82

<table>
<thead>
<tr>
<th>6W/825lm</th>
<th>2W/275lm (Narrow spot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12W/1650lm</td>
<td>8W/1100lm (Narrow spot)</td>
</tr>
<tr>
<td>19W/2460lm</td>
<td></td>
</tr>
<tr>
<td>24W/3300lm</td>
<td></td>
</tr>
</tbody>
</table>

**Light color**

<table>
<thead>
<tr>
<th>2700K CRI 92 *</th>
<th>3500K CRI 92 *</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000K CRI 92</td>
<td>4000K CRI 82</td>
</tr>
<tr>
<td>3000K CRI 97 *</td>
<td>4000K CRI 92 *</td>
</tr>
</tbody>
</table>

**Light distribution**

<table>
<thead>
<tr>
<th>Projectors</th>
<th>Floodlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow spot</td>
<td>Wide flood</td>
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<tr>
<td>Spot</td>
<td>Extra wide flood</td>
</tr>
<tr>
<td>Flood</td>
<td>Oval flood</td>
</tr>
<tr>
<td>Lens wallwashers</td>
<td>Wallwash</td>
</tr>
</tbody>
</table>

**Control**

0–10V

**Color (housing)**

Graphit m

10,000 colors *
**Projectors**

- Narrow spot
- Spot
- Flood
- Lens wallwashers

**Floodlights**

- Wide flood
- Extra wide flood
- Oval flood
- Wallwash

---

- 48W/6600lm
- 18W/2475lm (Narrow spot)

- 72W/8900lm
- 32W/4400lm (Narrow spot)

---

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *

- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

---

- 0–10V

---

**Graphit m**

- 10,000 colors *

---

* available on request

** Only for narrow spot light distribution

---

Article numbers and planning data:
www.erco.com/015663-us

Design and application:
www.erco.com/kona
Kona Projectors, floodlights, wallwasher

Construction size

LED module
Maximum value at 4000K CRI 82

96W/13200lm
42W/5775lm (Narrow spot)

Light color

2700K CRI 92 *
3000K CRI 92
3000K CRI 97 *
3500K CRI 92 *
4000K CRI 82
4000K CRI 92 *

Light distribution

Projects:
- Narrow spot
- Spot
- Flood
- Lens wallwashers

Floodlights:
- Wide flood
- Extra wide flood
- Oval flood
- Wallwash

Control

0–10V

Color (housing)

Graphit m

10,000 colors *

Accessories

- Ground spike
- Ground socket
- Concrete anchor
- Mounting plate
- Cantilever arm
- Attachment
- Clamping plate
- Adapter piece
- Spacer

* available on request
Grasshopper – Small and mighty

Grasshopper luminaires deliver accent lighting, floodlighting and wallwashing for outdoor areas.
A prominent architectural detail, Grasshopper is designed for versatile use in the outdoor area. Whether it's accentuating information signs and objects or floodlighting trees or walls – you will find the right light distribution for every task. Their aluminum housing is exceptionally weather-resistant and can be mounted in any position. The luminaire head can be tilted and rotated in any direction. Maintenance-free optoelectronics guarantee maximum efficiency to save our resources and result in lower operating costs. Precise photometrics prevent spill light as a further eco-friendly factor.

Related ranges

Gecko
Projectors, floodlights, wallwashers
Page 276
**Grasshopper** Projectors, floodlights, wallwashers

**Structure and characteristics**
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1. **ERCO Sphérolit lens**
   - Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
   - Oval flood adjustable through 90°

2. **ERCO LED-module**
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3. **Light head**
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Non-reflective safety glass

4. **Housing and hinge**
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - 130° tilt, 360° rotation
   - Hinge with scaling and inner cable routing

5. **Mounting plate**
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Optimized surface for reduced accumulation of dirt

6. **Control gear**
   - Trailing edge dimmable
   - Operation at 120V: Dimming with external dimmers possible
   - Operation at 277V: switchable

**Suitable for wet locations (IP65)**
- Dust-proof and water jet-proof

**Variants on request**
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/grasshopper
**Grasshopper** Projectors, floodlights, wallwashers

**Small luminaire dimensions**

Small luminaires are discreet and place the focus on the light itself. Small luminaire dimensions are particularly advantageous in compact room situations.

<table>
<thead>
<tr>
<th>Special characteristics</th>
<th>ERCO high-power LEDs</th>
<th>Excellent thermal management</th>
<th>Trailing edge dimmable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small luminaire dimensions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficient Spheronit technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Different light distributions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Different light colors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wet location</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degree scale for good adjustability</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pivotable through 130°</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

ERCO Program 2020
Grasshopper Projectors, floodlights, wallwashers

Construction size

LED module
Maximum value at 4000K CRI 82

<table>
<thead>
<tr>
<th>Projectors</th>
<th>Floodlights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow spot</td>
<td>Wide flood</td>
</tr>
<tr>
<td>Spot</td>
<td>Extra wide flood</td>
</tr>
<tr>
<td>Flood</td>
<td>Oval flood</td>
</tr>
<tr>
<td>Lens wallwashers</td>
<td>Wallwash</td>
</tr>
</tbody>
</table>

Light color

<table>
<thead>
<tr>
<th>Temperature</th>
<th>2700K CRI 92 *</th>
<th>3000K CRI 92 *</th>
<th>3500K CRI 92 *</th>
<th>4000K CRI 82</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000K CRI 92</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000K CRI 92</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Control

Trailing edge dimmable

Color (housing)

Graphit m
10,000 colors *

Accessories

Ground spike
Spacer
Suzlon One Earth Campus, Pune.
Architecture: CCBA, Tao Architects, Ravi & Varsha Govandi.
Lighting design: Sathish Rana.
Photography: Swapan Parekh.

* available on request

Article numbers and planning data:
www.erco.com/012729-us
Design and application:
www.erco.com/grasshopper
Lightscan – Radiance in digital form

Lightscan for sophisticated lighting tasks in outdoor areas
Lightscan lends a new flair to outdoor lighting, yet cuts an equally fine figure indoors where applications call for a higher protection mode. Elegant look and highly efficient photometrics join to form a perfect symbiosis. Its high levels of luminous flux enable the illumination of buildings, walls or objects even where these are exceptionally tall or offer few options to position the projectors. A wide range of light distributions ensures that the light is projected only where it’s needed.

Lightscan is exceptionally weather-resistant, as its slim silhouette blends harmoniously with the surroundings. Its flush cover glass as a contributing factor looks the part, elegantly providing reliable protection, but is also most easy to clean. An extensive range of mounting hardware means the Lightscan effortlessly fulfills different requirements of its environment making it a versatile tool in lighting design. Maintenance-free optoelectronics guarantee maximum efficiency to help save our resources and result in lower operating costs.

Related ranges

Lightscan façade luminaires
Page 324

Lightscan surface-mounted luminaires
Page 428
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: narrow spot, spot, flood, wide flood, extra wide flood, oval flood or wallwash
- Oval flood 360° rotation

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer

3 Housing
- Graphite m
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Double powder-coated
- Optimized surface for reduced accumulation of dirt
- Cover frame: powder-coated black
- Safety glass

4 Control gear
- Switchable or 0-10V dimmable

5 Mounting plate and hinge
- Corrosion-resistant cast aluminum, No-Rinse surface treatment or polymer
- Graphite m, double powder-coated or coated
- 90° tilt, 300° or 360° rotation
- Internal wiring

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/lightscan
Large lumen packages for very high illuminances
The attention of the viewer can be focused via contrasting accents. ERCO offers high-performance luminaires with large lumen packages for this purpose.

Oval flood freely rotatable
The round oval flood Spherolit lens can be freely rotated with all luminaires to optimally align the light to various objects.

Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

Special characteristics
- Large lumen packages for very high illuminances
- Oval flood, freely rotatable
- Various construction sizes
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Degree scale for good adjustability
- Pivotable through 90°
- Lockable
- Wet location
- Accessory for mounting variants
- Switchable 0–10V dimmable
**Lightscan** Projectors, floodlights, wallwasher

**Construction size**
- 4 3/8" (112mm)
- 6 1/16" (154mm)
- 7 7/8" (200mm)
- 8 15/16" (227mm)
- 5 11/16" (145mm)

**LED module**
- Maximum value at 4000K CRI 82
- 6W/825lm
- 12W/1650lm
- 19W/2460lm
- 24W/3300lm
- 12W/1650lm (Narrow spot)
- 19W/2460lm (Narrow spot)
- 24W/3300lm (Narrow spot)

**Light color**
- 2700K CRI 92 *
- 3000K CRI 92 *
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82 (Narrow spot)
- 4000K CRI 92 (Narrow spot)

**Light distribution**
- Projectors
  - Narrow spot
  - Spot
  - Flood
  - Lens wallwashers
- Floodlights
  - Wide flood
  - Extra wide flood
  - Oval flood
  - Wallwash

**Control**
- Switchable **
- 0–10V
- 0–10V

**Color (housing)**
- Graphit m
- 10,000 colors *
- Graphit m
- 10,000 colors *

**Accessories**
- Ground spike
- Mounting plate
- Clamping plate
- Ground socket
- Cantilever arm
- Adapter piece
- Concrete anchor
- Attachment
- Spacer

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306 ERCO Program 2020
### Projectors

<table>
<thead>
<tr>
<th>Color Temperature</th>
<th>CRI</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>92</td>
<td>3500K CRI 92 *</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>4000K CRI B2</td>
</tr>
<tr>
<td>3000K CRI 97</td>
<td>92</td>
<td>4000K CRI 92 *</td>
</tr>
</tbody>
</table>

### Floodlights

<table>
<thead>
<tr>
<th>Color Temperature</th>
<th>CRI</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K</td>
<td>92</td>
<td>3500K CRI 92 *</td>
</tr>
<tr>
<td>3000K</td>
<td>92</td>
<td>4000K CRI B2</td>
</tr>
<tr>
<td>3000K CRI 97</td>
<td>92</td>
<td>4000K CRI 92 *</td>
</tr>
</tbody>
</table>

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* available on request  
** Only for narrow spot light distribution

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Article numbers and planning data:  
[www.erco.com/014700-us](http://www.erco.com/014700-us)  
Design and application:  
[www.erco.com/lightscan](http://www.erco.com/lightscan)
**Lightscan** Projectors, floodlights, wallwasher

**Construction size**
- 13 3/4"

**LED module**
- Maximum value at 4000K CRI 82
  - 96W/13200lm
  - 42W/5775lm (Narrow spot)

**Light color**
- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 4000K CRI 82
- 3000K CRI 97 *
- 4000K CRI 92 *

**Light distribution**
- Projectors: Narrow spot
- Floodlights: Wide flood
- Spot: Extra wide flood
- Flood: Oval flood
- Lens wallwashers: Wallwash

**Control**
- 0–10V

**Color (housing)**
- Graphit m
- 10,000 colors *

**Accessories**
- Ground spike
- Ground socket
- Concrete anchor
- Mounting plate
- Cantilever arm
- Attachment
- Clamping plate
- Adapter piece
- Spacer

---

**ERCO Program 2020**
Fori Imperiali,
Rome. Lighting
design: Vittorio
Storaro, Rome;
Francesca Storaro,
Castel Gandolfo.
Photography:
Vittorio Storaro,
Rome / Castel
Gandolfo.

* available on request
Lightscoop – A floodlight for any purpose

Lightscoop ensures powerful wallwashing and ceiling wash-lighting in outdoor and indoor areas.

Parks, historic sites, buildings – Lightscoop comes into its own wherever powerful and high-quality floodlighting is required. Deep or wide surfaces, walls or ceilings – its different light intensity distributions and levels of luminous flux along with flexible adjustment and mounting options mean that Lightscoop responds well to any of your lighting tasks and requirements.

Mounted quickly and easily, the graduated disk on the hinge helps you align the luminaire effortlessly with reproducible accuracy. The housing ensures highly weather-resistant and stylish protection for the maintenance-free optoelectronics of the LED luminaires.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: wide beam or deep beam

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 Cover frame
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Safety glass

4 Housing
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt

5 Control gear
   - Switchable

6 Mounting plate and hinge
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Mounting plate: rotatable through 300°
   - Hinge: ±90° tilt
   - Internal wiring
   - Dial: corrosion-resistant aluminum

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors
Please contact your ERCO consultant.
**Lightscoop Wallwashers/ceiling washlights**

**Various construction sizes**
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

**Wide or deep beam distribution**
The wide or deep beam distribution Spherolit lenses allow the light distribution to be matched to the lighting task at hand.

**Lockable**
To ensure continuously fixed alignment of the light beam, the alignment can be securely locked.

**Wide luminaire spacing with ceiling washlighting/wallwashing**
Efficient ERCO photometries allow certain luminaires to be spaced unusually far apart at up to 1.5 times the distance to wall.

**Special characteristics**
- Different light distributions: wide or deep
- Various construction sizes
- Lockable
- Wide luminaire spacing with ceiling washlighting / wallwashing

**ERCO high-power LEDs**
- Efficient Spherolit technology

**Excellent thermal management**
- EMC-optimized
- Degree scale for good adjustability
- Pivotable by ±90°
- Wet location
- Accessory for mounting variants

**Switchable**

ERCO Program 2020  313
**Lightscoop** Wallwashers/ceiling washlights

**Construction size**
- 9 5/8”
- 13 3/8”

**LED module**
- Maximum value at 4000K CRI 82
  - 24W/3300lm
  - 48W/6600lm

**Light color**
- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 92 *
- 3500K CRI 92 *
- 4000K CRI 82
- 3000K CRI 97 *
- 4000K CRI 92 *

**Light distribution**
- Wallwashers/ceiling washlights
  - Wide beam
  - Deep beam
- Ceiling washlights
  - Wide beam
  - Deep beam

**Control**
- Switchable

**Color (housing)**
- Graphit m
- 10,000 colors *

**Accessories**
- Ground socket
- Attachment
- Concrete anchor
- Clamping plate
- Mounting plate
- Spacer
- Cantilever arm

**Graphit m**
- 10,000 colors *

* available on request

Article numbers and planning data: www.erco.com/013575-us
Design and application: www.erco.com/lightscoop
Universal. Elegant.
Facade luminaires

Vertical surfaces in the urban space contribute significantly to the spatial impression of squares, road junctions, and buildings. Facade lighting is therefore an important element in urban lighting. The wide range of facade luminaires includes diverse lighting solutions – from grazing light on facades to path and route lighting around buildings.

Overview of all ranges from p. 322
www.erco.com/facade/en_us
Facade luminaires Application examples

Grazing light for facades
- Vertical illumination for emphasizing surface texture
- Wide light distribution for economical luminaire spacing
- Tiltable luminaires enable precise alignment on site

Products used:
Focalflood p. 360

Guiding with light
- Small surface-mounted luminaires as a discreet detail in architecture
- Light beam shielded from the field of vision for good visual comfort
- Wide light distribution for large luminaire spacing

Products used:
Kubus p. 330
Illuminating large surfaces

- Uniform brightness distribution on the ceiling creates a high room impression
- Deep light distribution for illuminating large roof areas with just a few luminaires
- Above-average luminaire spacing reduces investment and operating costs

Products used:
Lightscan p. 324
Light for facades and paths
- Combination of grazing light and path lighting in one luminaire
- Upwards light beam available in narrow and wide version
- Precisely defined light beams create a high brightness impression

Products used: Cylinder p. 354
Wide or deep distribution
Wide light distribution very efficiently illuminates cantilever roofs or paths along facades. Deep light distribution is suitable for the large area illumination of ceilings as well as for the open area lighting of squares and terraces.

Available as recessed and surface-mounted version
For a discreet appearance, ERCO offers recessed versions of facade luminaires. Surface-mounted luminaires represent a pragmatic and elegant alternative.

This distinguishes our facade luminaires

Wet location
Luminaires marked with "wet location" are suitable for both outdoor and indoor use.

Variants for upward and downward lighting
Light directed upwards emphasizes the height of facades—for a filigree or wide-area appearance. Light beams directed downwards also enable routes along the facade to be illuminated.
ERCO individual

Our “ERCO individual” service can be used to implement customer-specific modifications such as other housing colors or LEDs according to the specific project.

www.erco.com/individual

Accessory for mounting variants

Some lighting tools can not only be used on buildings, but can also be mounted as recessed wall luminaires.

Walklights and orientation luminaires

Walklights and orientation luminaires from ERCO are suitable for the efficient illumination of staircases and paths.

Grazing light

Grazing light wallwashers enable alignment upwards or downwards.

Walklights and orientation luminaires

Walklights and orientation luminaires from ERCO are suitable for the efficient illumination of staircases and paths.

Products with these features can be found on the next page.
Outdoors

Ceiling washlights, floor washlights and walklights

**Lightscan** 324

Ceiling washlighting
Wide and deep beam light distributions available
Large luminaire spacing
Hospitality, Community

**Kubus** 330

Floor and facade lighting available
Wide and deep beam light distributions available
Accessories for wall recessing available
Hospitality, Work

**Axis Walklight** 336

High visual comfort
Discreet facade detail
Ideal for steps and paths
Hospitality, Public

**Visor** 342

Wide and deep beam light distributions available
High visual comfort
Hospitality, Public

**Lightmark** 348

Wide and deep beam light distributions available
High visual comfort
Hospitality, Public

**Cylinder** 354

Available as floor and facade lighting
Impressive grazing light
Hospitality, Work

**Focalflood** 360

Impressive grazing light
Pivotal through 135°
Hospitality, Culture

**Orientation luminaires** 460

Floor washlights available
Small luminaire dimensions
Hospitality, Community

Lightscan – Dynamic ceiling illumination for a wide spatial impression

Using Lightscan façade luminaires to washlight ceilings in airports, train stations, arcades and passages

Lightscan façade luminaires give a light and spacious impression to ceilings especially in such formidable spaces as passages or train stations. The intense, uniform washlighting of the robust luminaire allows for economical illumination of the ceiling with luminaires spaced far apart, performing equally well in outdoor and indoor applications. High levels of luminous flux and efficient photometrics ensure an excellent level of brightness – particularly in large and high rooms. Two different light distributions – wide or deep beam – offer the perfect solution for the illumination of large ceiling areas. Maintenance-free optoelectronics guarantee maximum efficiency to help save our resources and result in lower operating costs.

Related ranges

Lightscan Projectors, floodlights, wallwashers Page 302
Lightscan Surface-mounted luminaires Page 428
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
   - Light distributions: wide beam or deep beam

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 Cover frame
   - Cast aluminum, black powder-coated
   - Safety glass

4 Housing and wall plate
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt

5 Control gear
   - 0-10V dimmable

Variants on request
   - High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
   - Housing: 10,000 further colors
   - Please contact your ERCO consultant.

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Design and application:
www.erco.com/lightscan-f
Large lumen packages for very high illuminances
ERCO offers luminaires with large lumen packages for generating very high illuminances.

Different light distributions: wide or deep
The wide light distribution of ceiling washlights efficiently illuminates cantilever roofs along the facade. The deep beam light distribution of ceiling washlights is ideal for the wide-area illumination of ceilings.

Wide luminaire spacing with ceiling washlighting
ERCO’s efficient photometrics enable selected luminaires to be spaced particularly far apart, thereby minimizing the number of luminaires required.

Special characteristics
- Large lumen packages for very high illuminances
- Different light distributions: wide or deep
- Wide luminaire spacing with ceiling washlighting
- ERCO high-power LEDs
- Efficient Spherolit technology
- Different light colors
- Excellent thermal management
- 0–10V dimmable
- EMC-optimized
- Various construction sizes
- Wet location

Lightscan Façade luminaires

ERCO Program 2020 327
72W/9900lm

2700K CRI 92 * 3000K CRI 92
3000K CRI 92 3500K CRI 92 *
3000K CRI 97 * 4000K CRI 82
4000K CRI 92 *

Ceiling washlights
Wide beam
Deep beam

0–10V

Graphit m
10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/015413-us
Design and application:
www.erco.com/lightscan-f
Kubus – Light from the box

Facade lighting and floor wash-lighting for outdoor and indoor areas with a single system design

During the day, Kubus is all but an inconspicuous structure on the wall – at night, however, the luminaire excels with exquisite light. Kubus is flexible. Using appropriate accessories, the luminaire can be mounted in or on the wall. Underlined with grazing light, wall surfaces are given a new dimension.

Used along traffic routes, Kubus provides optimum visual comfort and reliable orientation for passers-by. In perfect understatement, Kubus combines highly efficient and maintenance-free optoelectronics with a very discreet appearance. Kubus floor washlights are also available as bollard luminaires.

Related ranges

Kubus
Bollard luminaires
Page 386
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 Light emission of floor washlight (below)
   - Softec lens as protective glass or non-reflective protective glass
   - Wide distribution: sculpture lens or Spherolit lens
   - Deep distribution: prismatic lens or Spherolit lens
   or
   Light emission of facade luminaire (above)
   - Softec lens as protective glass or non-reflective protective glass
   - Spherolit lens spot or sculpture lens

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 Housing and wall plate
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt

4 Control gear
   - Switchable or trailing edge dimmable
     Trailing edge dimmable version:
     - Operation at 120V: Dimming with external dimmers possible
     - Operation at 277V: switchable
   Suitable for wet locations (IP65)
   Dust-proof and water jet-proof

Variants on request
   - High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
   - Housing: 10,000 further colors
   Please contact your ERCO consultant.
Wide or deep beam distribution
Spherolit lenses allow the light distribution to be matched to the lighting task at hand.

Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.
Kubus Façade luminaires

Construction size

LED module
Maximum value at 4000K CRI 82

3W/450lm

Light color

2700K CRI 92 *
3000K CRI 92
3000K CRI 97 *
3500K CRI 92 *
3000K CRI 92
4000K CRI 82
3000K CRI 97 *
4000K CRI 92 *

Light distribution

Floor washlights
Wide beam
Deep beam

Control

Switchable

Color (housing)

Graphit m

10,000 colors *

Accessories

Concrete housing
Recessed cassette
Recessed housing
Mounting plate

ERCO Program 2020
**Construction size**

- 4 7/8" x 2 3/8"
- 5 15/16" x 2 3/8"

**LED module**

- Maximum value at 4000K CRI 82
- 3W/450lm
- 6W/825lm

**Light color**

- 2700K CRI 92 *
- 3500K CRI 92 *
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 97 *
- 4000K CRI 92 *

**Light distribution**

- Façade luminaires
- Spot
- Oval flood

**Control**

- Switchable
- Trailing edge dimmable

**Color (housing)**

- Graphit m
- 10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/012852-us
Design and application:
www.erco.com/kubus-f

ERCO Program 2020
Axis Walklight – Glare control to perfection

Optimal visual comfort for stairs and paths
The Axis Walklight’s sophisticated photometrics ensure superb visual comfort for people in the outdoor environment. The LED-generated direct lighting component is fully shielded, making the luminaire great for use in complex areas such as stairways. A delightful sparkle on the rectangular, lens-like cover glass reveals the light emission, and the wide beam spread across the staggered surface extends all the way to the edge. At the same time, the gentle gradient makes it easier to see by avoiding drastic contrasts to which the eye takes time to adapt. Mounted in a row, the Axis Walklight provides elegant illumination of paths.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO LED-module
   - Light colors: warm white (3000K) or neutral white (4000K)

2 ERCO reflector
   - Asymmetrical reflector lens system: aluminum, silver anodized
   - No direct light components due to optimized LED shedding

3 Cover frame
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Softec lens

4 Housing
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Fixing component: polymer. Clamp extension 9/32“ - 25/32” / 7 - 20mm

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Design and application:
www.erco.com/axis-walklight
Improved visual comfort
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.
Axis Walklight

Construction size

LED module
Maximum value at 4000K

Light color

Light distribution

Control

Color (housing)

*Graphit m

10,000 colors *

10 9/16" 3 1/2"

269mm 88mm

60mm

2 3/8"

1.7W/90lm

Switchable

Concrete housing

Walklights

Wide beam

Accessories

ERCO Program 2020

340
Visor – Precise light of minimalist elegance

The efficient façade luminaire with good visual comfort for the illumination of pathways, open areas and entrance zones

Visor façade luminaires focus the attention very naturally on any architectural setting. Using the wide light distribution, Visor illuminates pathways along walls or buildings evenly over an area wide enough to require a minimum number of luminaires. Their deep-beam version effectively lights squares or terraces. With their low-maintenance surface, Visor creates an eye-catching feature on any façade. The graphic style of the luminaire is further underlined by details such as invisible connections and a flush cover glass. The light source is discreetly hidden to ensure glare-free light for passers-by. Thanks to dark sky technology, Visor façade luminaires emit no spill light above the horizontal plane.

Related ranges

Lightmark
Façade luminaires
Page 348
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: wide beam or deep beam

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer

3 Cover (recessed luminaire)
- Graphit m
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Double powder-coated
- Optimized surface for reduced accumulation of dirt
- Flush mounting detail
- Flush mounting detail: non-reflective safety glass

4 Housing and mounting ring (recessed luminaire)
- For recessed mounting in brickwork and dry-wall partitions
- Mounting ring: stainless steel
- Mounting bracket: metal, hot-dip galvanized. Clamp extension 1/16" - 1 3/16" / 1-30mm
- Housing: polymer, black

5 Control gear
- Trailing edge dimmable
- Operation at 120V: Dimming with external dimmers possible
- Operation at 277V: switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.
Different light distributions, wide or deep beam
Floor washlights with a wide beam are ideal particularly for lighting pathways along walls and façades. Floor washlights with a deep beam are effective in illuminating open spaces such as squares or terraces.

Special characteristics

- Different light distributions: wide or deep
- ERCO high-power LEDs
- Efficient Spherolit technology
- Dark Sky technology
- Different light colors
- Excellent thermal management
- EMC-optimized
- Wet location
- Trailing edge dimmable
- Visor
**Visor** Façade luminaires

**Construction size**

- Ø 7 5/8”
- Ø 7 7/8”

**LED module**

- Maximum value at 4000K CRI 82
- 6W/825lm

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 3000K CRI 97 *
- 4000K CRI 92 *
- 3000K CRI 92
- 4000K CRI 82

**Light distribution**

- Floor washlights
  - Wide beam
  - Deep beam

**Control**

- Trailing edge dimmable

**Color (housing)**

- Graphit m
- 10,000 colors *

**Accessories**

- Junction box
- Sealing plate
- Concrete housing
- Suction holder
- Mounting plate
Lightmark – Precise light of minimalist elegance

The efficient façade luminaire with good visual comfort for the illumination of pathways, open areas and entrance zones
Lightmark façade luminaires focus the attention very naturally on any architectural setting. Using the wide light distribution, Lightmark illuminates pathways along walls or buildings evenly over an area wide enough to require a minimum number of luminaires. Their deep-beam version effectively lights squares or terraces. With their smooth surface, Lightmark creates an eye-catching feature on any façade. The graphic style of the luminaire is further underlined by details such as invisible connections and a flush cover glass. The light source is discreetly hidden to ensure glare-free light for passers-by. Thanks to dark sky technology, Lightmark façade luminaires emit no spill light above the horizontal plane. The system design of the Lightmark range enables many different combinations of bollard and façade luminaires.

Related ranges

Lightmark Bollard luminaires Page 392
Visor Façade luminaires Page 342
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Sphérolit lens
   - Light distributions: wide beam or deep beam

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 Cover (recessed luminaire)
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - Flush mounting detail
   - Flush mounting detail: non-reflective safety glass

4 Housing and mounting ring (recessed luminaire)
   - For recessed mounting in brickwork and dry-wall partitions
   - Mounting ring: stainless steel
   - Mounting bracket: metal, hot-dip galvanized. Clamp extension 1/16” - 1 3/16” / 1-30mm
   - Housing: polymer, black

5 Control gear
   - Trailing edge dimmable
   - Operation at 120V: Dimming with external dimmers possible
   - Operation at 277V: switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
   - High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
   - Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application:
www.erco.com/lightmark-f

350 ERCO Program 2020
Different light distributions, wide or deep beam

Floor washlights with a wide beam are ideal particularly for lighting pathways along walls and façades. Floor washlights with a deep beam are effective in illuminating open spaces such as squares or terraces.

**Special characteristics**

- ERCO high-power LEDs
- Efficient Spheroit technology
- Dark Sky technology
- Different light colors
- Excellent thermal management
- EMC-optimized
- Wet location
- Trailing edge dimmable
- Façade luminaires

**Lightmark** Façade luminaires
Lightmark Façade luminaires

Construction size

LED module
Maximum value at 4000K CRI 82

6W/825lm

Light color

2700K CRI 92 * 3500K CRI 97 *
3000K CRI 92 4000K CRI 92 *
3000K CRI 92 4000K CRI 92 *

Light distribution

Floor washlights
Wide beam
Deep beam

Control

Trailing edge dimmable

Color (housing)

Graphit m

10.000 colors *

Accessories

Junction box
Sealing plate
Concrete housing
Suction holder
Mounting plate

352 ERCO Program 2020
Cylinder – Universal and elegant

Façade lighting with many variations
Accentuating historic façades with grazing light or structuring large sections of façade with light patterns are only some of the strengths displayed by Cylinder façade luminaires. The wide variety of distribution options includes direct, indirect and direct-indirect narrow or wide beams. For the purpose of conforming to the dark sky standard, the indirect distribution is inclined toward the façade to avoid spill light into the night sky.

The direct distribution options include versions that pool the light in a semicircle on the ground or with a beam edge ending just before the façade. As a common denominator, all Cylinder façade luminaires produce the characteristic grazing light to emphasize textures on the façade.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 Light emission above
- Spherolit lens spot or oval flood
- Non-reflective safety glass

2 Light emission below Size 2
- Spherolit lens oval flood
- Reflector: aluminum, silver anodized, specular
- Non-reflective safety glass

or

Size 3
- Diffuser: glass, matt
- Low brightness reflector: aluminum, silver anodized, specular
- Cut-off angle 30° from horizontal
- Non-reflective safety glass

3 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer

4 Housing and wall plate
- Grapht m
- Corrosion-resistant aluminum profile or corrosion-resistant cast aluminum, no-rinse surface treated
- Double powder-coated
- Optimized surface for reduced accumulation of dirt
- Tamper-proof screw

5 Control gear
- Switchable or trailing edge dimmable
Trailing edge dimmable version:
- Operation at 120V: Dimming with external dimmers possible
- Operation at 277V: switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors
Please contact your ERCO consultant.
**Cylinder Façade luminaires**

**Decorative wall-/ facade lighting**
Striking lighting effects produced by narrow or wide beams create an eyecatching feature and divide up the façade. The ERCO system design includes a wide variety of lighting solutions with upward or downward beam emission.

**Various light distributions**
Different light distributions let you adjust the light to suit the task at hand. The options range from very narrow accentuation through to wide beam floodlighting and even wallwashing.

**Special characteristics**
- Various light distributions
- Decorative wall-/ facade lighting
- ERCO high-power LEDs
- Efficient Spherolit technology
- Excellent thermal management
- Switchable
- EMC-optimized
- Different light colors
- Various construction sizes
- Wet location
- Switchable
- Trailing edge dimmable
- Wet location

ERCO Program 2020
**Cylinder Façade luminaires**

### Construction size
- Size 2

### LED module
- Maximum value at 4000K CRI 82
- 6W/825lm
- 12W/1650lm

### Light color
- 2700K CRI 92*
- 3000K CRI 92
- 3000K CRI 97*
- 3500K CRI 92*
- 4000K CRI 82
- 4000K CRI 92*

### Light distribution
- Floor washlights
- Oval flood

### Control
- Trailing edge dimmable

### Color (housing)
- Graphit m
- 10,000 colors *

### Accessories
- Mounting plate

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Erzeugt mit dem DocScape Publisher, Regelwerk $Rev: 14899 $, am 2020-1-27 um 17:04
Graphit m
10,000 colors *

Façade luminaires
- Spot
- Oval flood

Size 2

12W/1650lm

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82

Switchable

Trailing edge dimmable

Size 3

12W/1650lm
18W/2475lm

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82

Article numbers and planning data:
www.erco.com/011888-us

Design and application:
www.erco.com/cylinder

* available on request
Focalflood – Grazing light to perfection

**Emphasizing façade surfaces with white light**
Grazing light delivers incredibly effective illumination of building surfaces and emphasizes details through high-contrast shadows – such superb results are achieved with Focalflood façade luminaires. Optimized for grazing light, their lens system enables wide luminaire spacing, still producing excellent uniformity on the façade. The luminaire is easily oriented and smoothly adjusted to further optimize its grazing light. The Focalflood façade luminaire offers a highly precise, narrow light distribution over the whole wall to minimize spill light. Focalflood façade luminaires thus provide a creative basis for transforming façades into an eye-catching feature, washlit with magic grazing light.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)

2 ERCO reflector
- Asymmetrical reflector lens system: aluminum, silver anodized
- No direct light components due to optimized LED shielding

3 Front unit
- Graphit m
- Corrosion-resistant aluminum, No-Rinse surface treatment
- Double powder-coated
- Softec lens

4 Housing
- Graphit m
- Corrosion-resistant aluminum profile, No-Rinse surface treatment
- Double powder-coated
- Optimized surface for reduced accumulation of dirt
- Screw-fastened end plates: corrosion-resistant cast aluminum
- 2 freely positionable mounting brackets: corrosion-resistant aluminum
- 135° tilt
- Connection cable 3xAWG18 / 3x1mm², L 59" / 1.5m

5 Control gear
- Switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors
Please contact your ERCO consultant.
Highly efficient lighting technology
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Grazing light
The wide light distribution along facades and soft gradient ensure very good uniformity when mounted in a row. The luminaire can be tilted individually and has a very narrow beam angle towards the wall to prevent spill light and enable sustainable lighting solutions meeting dark sky requirements.

Special characteristics
- High-efficiency lighting technology
- Grazing light wallwasher
- ERCO high-power LEDs
- Excellent thermal management
- Switchable
- Different light colors
- EMC-optimized
- Pivotable through 135°
- Wet location
**Focalflood Façade luminaires**

**Construction size**
- 24 15/16" x 84 mm
- 24 15/16" x 633 mm
- 3 1/2" x 89 mm
- 6 1/4" x 159 mm

**LED module**
- Maximum value at 4000K CRI 82
- 20W/2750lm

**Light color**
- 2700K CRI 92 *
- 3500K CRI 92 *
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 97 *
- 4000K CRI 92 *

**Light distribution**
- Façade luminaires
- Grazing light

**Control**
- Switchable

**Color (housing)**
- Graphit m
- 10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/012959-us
Design and application:
www.erco.com/focalflood

ERCO Program 2020 365
Linear. Magical light.
Bollard luminaires

A wide range of lighting tasks around buildings exists—ranging from the functional lighting of paths and stairways to open spaces. Bollard luminaires with various, predominantly asymmetric flood light distributions solve these tasks with high visual comfort. Due to precise limitation of the light beam, all bollard luminaires meet dark sky requirements.
Guiding with light
- Soft light beam gradient for simple adaptation to dark surroundings
- Very wide light beam for large luminaire spacing
- Positioning along the path with 180° light distribution or at intersections with 360° light distribution

Products used:
- Castor p. 374
- Midipoll p. 380

Dark Sky lighting
- No distribution of light above the horizontal plane
- Dark Sky due to precise distribution downwards
- Low luminance light emission for high visual comfort

Products used:
- Midipoll p. 380
Bollard luminaires Application examples

Narrow distribution for open areas
- Suitable for wide driveways or large open spaces
- Long, asymmetric light distribution for wide forward distribution
- High visual comfort on squares

Products used:
Lightmark p. 392
Kubus p. 386

Wide light distribution for paths
- Wide light beam for large luminaire spacing
- Also available as small bollards for mounting on walls or with narrow paths
- Precise downward light distribution for pleasant visual comfort

Products used:
Lightmark p. 392
Elegant orientation with grazing light

- Grazing light along the luminaire creates a subtle focus
- Attractive luminaire design with profile of four parabolas for elegant appearance during the day
- Housing in special color on request

Products used:
Midipoll p. 380
The luminaires in the ERCO product range cover a wide variety of lumen categories, thus offering appropriate solutions for a wide variety of lighting tasks.

Floor washlights wide or deep distribution

The wide light distribution of floor washlights is especially suitable for lighting paths beside walls and facades. The deep light distribution of floor washlights is ideal for the illumination of squares and terraces.

Various sizes

The luminaires in the ERCO product range cover a wide variety of lumen categories, thus offering appropriate solutions for a wide variety of lighting tasks.

Dark Sky technology

ERCO has perfected Dark Sky technology for its bollard luminaires. Light pollution is avoided because no light is emitted above the horizontal plane. In addition, glare to passers-by and drivers is avoided as well.
Our "ERCO individual" service can be used to implement customer-specific modifications such as differing housing colors or LEDs according to the specific project.

www.erco.com/individual

Wet location
Luminaires marked with "wet location" are suitable for both outdoor and indoor use.

Wide distribution
Floor washlights for paths
Bollard luminaires with 180° light emission are suitable for paths and routes. They form a product family together with 360° light distribution bollards.

Floor washlights for open area lighting
Bollard luminaires with 360° radial distribution are suitable for the planar illumination of squares and terraces.

Accessory for mounting variants
ERCO's system design allows different mounting variants. See the overview of accessories to find suitable products for your individual installation situation.

ERCO individual
Our "ERCO individual" service can be used to implement customer-specific modifications such as differing housing colors or LEDs according to the specific project.

www.erco.com/individual
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<td></td>
</tr>
</tbody>
</table>

- **Castor**: Available with 180° or 360° light distribution. 100% Dark Sky compliant. Four sizes.
- **Midipoll**: 360° light distribution. 100% Dark Sky compliant.
- **Kubus**: Wide and deep beam light distributions available. 100% Dark Sky compliant.
- **Lightmark**: Wide and deep beam light distributions available. Light emission opening to the front.

A lighting tool for pathways and squares
The Castor bollard luminaire visually connects paths and squares outdoors: two light distributions and three construction sizes enable nuanced lighting designs with a single luminaire range. Its innovative optical system with ring-shaped lens creates either light distribution aligned at 180° to one side for paths, or 360° light distribution for open areas. The Castor lighting technology is designed for uniform illumination in both of these applications. Luminaire spacing of up to 33 feet (10m) is possible without compromises in terms of glare control. ERCO Dark Sky technology prevents emission of light above the horizontal.

Good visual conditions for passers-by and vehicle drivers is ensured thanks to the concealed optic.
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO light guiding ring
   - Made of optical polymer

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)

3 Anti-glare cone
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated and black lacquered.
   - Glare-free above the light aperture

4 Upper cover
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated

5 Bollard
   - Graphit m
   - Corrosion-resistant aluminum profile, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt

6 Control gear
   - 0-10V dimmable

7 Base plate
   - For mounting on accessories
   - Mounting accessories to be ordered separately

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Design and application:
www.erco.com/castor
Castor Bollard luminaires

Large luminaire spacing for open area lighting
For floor washlights with wide radial light distribution, luminaire spacing (d) of up to 33 feet (10m) are possible. Even larger spacing can be selected to support visual guidance.

Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

Special characteristics
- Various construction sizes
- Large luminaire spacing possible
- ERCO high-power LEDs
- Dark Sky technology
- Different light colors
- Excellent thermal management
- EMC-optimized
- Wet location
- 0–10V dimmable
**Castor Bollard luminaires**

**Construction size**
- 19 11/16" | Ø 4 1/2"
- 19 11/16" | Ø 6 11/16"

**LED module**
- Maximum value at 4000K CRI 82
- 16W/2200lm
- 24W/3300lm

**Light color**
- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 92 *
- 3500K CRI 92 *
- 3000K CRI 92 *
- 3500K CRI 92 *
- 3000K CRI 97 *
- 4000K CRI 92 *
- 3000K CRI 97 *
- 4000K CRI 92 *
- 3000K CRI 97 *
- 4000K CRI 92 *

**Light distribution**
- Floor washlights
  - Wide beam
  - Radial beam
- Roof washlights
  - Wide beam
  - Radial beam

**Control**
- 0–10V

**Color (housing)**
- Graphit m
- 10,000 colors *

**Accessories**
- Ground socket
- Mounting plate
- Concrete anchor

378  ERCO Program 2020
31 1/2" / Ø 4 1/2"

16W/2200lm

Floor washlights
- Wide beam
- Radial beam

0–10V 0–10V

Graphit m
- 10,000 colors *

35 7/16" / Ø 6 11/16"

24W/3300lm

Floor washlights
- Wide beam
- Radial beam

0–10V 0–10V

Graphit m
- 10,000 colors *

2700K CRI 92 * 3500K CRI 92 *
3000K CRI 92 4000K CRI 82
3000K CRI 97 * 4000K CRI 92 *

3000K CRI 92 4000K CRI 82
3000K CRI 97* 4000K CRI 92 *

* available on request

Article numbers and planning data:
www.erco.com/015744-us

Design and application:
www.erco.com/castor
Midipoll – See and be seen

Subtle grazing light on the striking, cross-shaped profile transforms Midipoll into a space defining element. With Midipoll, ERCO presents a bollard luminaire in the context of efficient visual comfort. Its innovative photometrics with special prismatic lens effectively project the luminous flux onto the target surface — without causing glare, therefore fulfilling dark sky requirements. The night can emerge and the stars are visible. During this time, the grazing light on the luminaire creates a subtle eye-catcher and ensures orientation on squares and paths. During the day, Midipoll acts as an elegant column with a profile formed of four parabolas. The sum of these properties confirms that this is where the future of outdoor lighting is to be found.
**Structure and characteristics**
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 **ERCO LED-module**
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

2 **Cylindrical light head**
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Lower prism lens or Softec lens

3 **Cross-shaped aluminum profile**
   - Graphit m
   - Corrosion-resistant, No-rinse surface treatment
   - Double powder-coated

4 **Cylindrical housing**
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - Mounting accessories to be ordered separately

5 **Control gear**
   - Switchable or trailing edge dimmable
     - Trailing edge dimmable version:
       - Operation at 120V: Dimming with external dimmers possible
       - Operation at 277V: switchable
   - Suitable for wet locations (IP65)
     - Dust-proof and water jet-proof
   - Variants on request
     - High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
     - Housing: 10,000 further colors
     - Please contact your ERCO consultant.

Design and application:
www.erco.com/midipoll
Highly efficient lighting technology
The lens system made of high quality optical polymers is characterized by very high efficiency.

Large luminaire spacing for open area lighting
For floor washlights with wide radial light distribution, luminaire spacing (d) of up to 33 feet (10m) are possible. Even larger spacing can be selected to support visual guidance.

Special characteristics
- High-efficiency lighting technology
- Various construction sizes
- Large luminaire spacing possible
- ERCO high-power LEDs
- Dark Sky technology
- Different light colors
- Excellent thermal management
- EMC-optimized
- Switchable
- Trailing edge dimmable
- Wet location

Midipoll Bollard luminaires
Midipoll Bollard luminaires

**Construction size**
- 20 5/8"
- 31 1/2"

**LED module**
- Maximum value at 4000K CRI 82
- 8W/1100lm

**Light color**
- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

**Light distribution**
- Floor washlights
- Radial beam

**Control**
- Switchable

**Color (housing)**
- Graphit m
- 10,000 colors *

**Accessories**
- Ground socket
- Mounting plate
- Concrete anchor

384 ERCO Program 2020
39 9/16"
200mm
7 7/8"
1004mm
39 9/16"
Graphit m
10,000 colors *
39 9/16"
24W/3300lm
Floor washlights
Radial beam
2700K CRI 92 *
3500K CRI 92 *
3000K CRI 92
4000K CRI 82
3000K CRI 97 *
4000K CRI 92 *
Trailing edge
dimmable
Graphit m
10,000 colors *

* available on request

Article numbers and planning data:
www.erco.com/013007-us
Design and application:
www.erco.com/midipoll

ERCO Program 2020 385
Kubus – Efficient light from the box

Architectonic bollard luminaires for precise washlighting in the outdoor area
During the day, the Kubus bollard luminaire is all but an inconspicuous architectural feature – at night, however, it excels with exquisite light. Used along traffic routes, Kubus provides optimum visual comfort and reliable orientation for passers-by. Two different light distributions complement each other beautifully: The wide-beam version neatly marks the way, the deep-beam version ensures optimum illumination of squares or terraces. In perfect understatement, Kubus combines highly efficient, cutting-edge and maintenance-free optoelectronics with a very discreet appearance.

Related ranges

Kubus
Façade luminaires
Page 330
**Structure and characteristics**

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 **Lens**
   - Softec lens as protective glass
   - Wide distribution sculpture lens or narrow distribution prism lens

2 **ERCO LED-module**
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3 **Luminaire housing**
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt

4 **Bollard**
   - Corrosion-resistant aluminum profile, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Luminaire and bollard must be installed on location

5 **Control gear**
   - Switchable

6 **Base plate**
   - For mounting on accessories
   - Mounting accessories to be ordered separately

**Suitable for wet locations (IP65)**

Dust-proof and water jet-proof

**Variants on request**

- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.
**Kubus** Bollard luminaires

**Different light distributions: wide or deep**

Floor washlights with a wide beam are ideal particularly for lighting pathways along walls and façades. Floor washlights with a deep beam are effective in illuminating open spaces such as squares or terraces.

**Special characteristics**

- Different light distributions: wide or deep
- ERCO high-power LEDs
- Dark Sky technology
- Excellent thermal management
- EMC-optimized
- Wet location
- Accessory for mounting variants
- Switchable

**ERCO Program 2020**
**Kubus Bollard Luminaires**

**Construction size**

- 31 1/2" 4 7/8" 120mm 800mm 124mm 94mm

**LED module**

Maximum value at 4000K CRI 82

- 3W/450lm

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

**Light distribution**

- Floor washlights
- Wide beam
- Deep beam

**Control**

- Switchable

**Color (housing)**

- Graphit m
- 10,000 colors *

**Accessories**

- Ground socket
- Mounting plate
- Concrete anchor

---

390 ERCO Program 2020
Lightmark – Precise light of minimalist elegance

The efficient bollard luminaire with good visual comfort for the illumination of pathways and open areas.

Lightmark bollard luminaires focus the attention very naturally on any architectural setting. Using the wide light distribution, Lightmark illuminates pathways along walls or buildings evenly over an area wide enough to require a minimum number of luminaires. Their deep-beam version effectively lights squares or terraces. With their low-maintenance and smooth surface, Lightmark is a robust yet elegant bollard luminaire for the outdoor area. The light source is discreetly hidden to ensure glare-free light for passers-by. Thanks to dark sky technology, Lightmark bollard luminaires emit no spill light above the horizontal plane. The system design of the Lightmark range enables many different combinations of bollard and façade luminaires.

Related ranges

Lightmark
Façade luminaires
Page 348
**Structure and characteristics**

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1. ERCO Spherolit lens
   - Light distributions: wide beam or deep beam

2. ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer

3. Luminaire
   - Graphit m
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Double powder-coated
   - Optimized surface for reduced accumulation of dirt
   - Non-reflective safety glass

4. Bollard
   - Corrosion-resistant aluminum profile, No-Rinse surface treatment
   - Graphit m, double powder-coated
   - Tamper-proof screws

5. Control gear
   - Trailing edge dimmable
   - Operation at 120V: Dimming with external dimmers possible
   - Operation at 277V: switchable

6. Base plate
   - For mounting on concrete plinth or accessories

*Suitable for wet locations (IP65) Dust-proof and water jet-proof*

*Variants on request*
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors

Please contact your ERCO consultant.

Design and application: www.erco.com/lightmark
Different light distributions: wide or deep

Spherolit lenses allow the light distribution to be matched to the lighting task at hand.

Large luminaire spacing

ERCO's efficient photometrics enable selected luminaires to be spaced particularly far apart, thereby minimizing the number of luminaires required.

Special characteristics

- Different light distributions: wide or deep
- Large luminaire spacing possible
- ERCO high-power LEDs
- Efficient Spherolit technology
- Dark Sky technology
- Different light colors
- Excellent thermal management
- EMC-optimized
- Wet location
- Trailing edge dimmable
- Lightmark Bollard luminaires
Lightmark Bollard luminaires

**Construction size**

<table>
<thead>
<tr>
<th>35 7/16&quot;</th>
</tr>
</thead>
</table>

**LED module**

Maximum value at 4000K CRI 82

6W/825lm

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

**Light distribution**

- Floor washlights
- Wide beam
- Deep beam

**Control**

- Trailing edge dimmable

**Color (housing)**

- Graphit m
- 10,000 colors *

**Accessories**

- Ground socket
- Mounting plate
- Concrete anchor

396 ERCO Program 2020
Atriums, cantilever roofs, passages, and bridges require luminaires for ceiling installation that meet the demands made of outdoor luminaires. High protection rating ensures protection against moisture and dust. Recessed downlights for outdoors provide various lighting characteristics for this application area, ranging from downlights to directional spotlights and wallwashers.

Integrated. Durable. 
Recessed luminaires

Overview of all ranges: from p. 402
www.erco.com/downlights-r-ext/en_us
Prestigiously welcoming
- Large lumen packages for lighting from large distances
- High visual comfort due to good glare control
- Large luminaire spacing possible for reduced project costs

Products used:
- Quintessence round p. 404
- Compact p. 410

Illuminating routes around buildings
- Luminaires with high protection rating for low-maintenance outdoor applications
- Integrating lighting discreetly into the architecture as a ceiling installation detail
- Oval light distributions are especially suitable for illuminating paths and routes

Products used:
- Compact p. 410
This distinguishes our recessed luminaires

**Always the right light distribution**
Whatever you wish to illuminate, with ERCO you’ll find the right light distribution – from accenting to wallwashing.

**Shallow recess depth**
ERCO develops special luminaires with low recess depths which despite very limited installation conditions feature high visual comfort and high quality of light.

**Large luminaire spacing**
For some wallwashers, the luminaire spacing may be up to 1.5 times the distance to the wall. Specific information is provided in the wallwasher tables at www.erco.com. A computer-aided calculation is recommended for assessing possible light beam spreads on side walls.

**Lens wallwashers**
The asymmetric light distribution achieves the economical, uniform illumination of walls and facades.

Wallwash

Extra wide flood
>80°

Oval flood
approx. 20°x 60°
Very high visual comfort

The darklight reflector combines maximum visual comfort with an optimum light output ratio.

Wet location

Luminaires marked with "wet location" are suitable for both outdoor and indoor use.

Customize

"ERCO individual" offers extensive options for the customizing of product ranges:

www.erco.com/individual

Pivotable directional spotlights

The narrow beam angle of the directional spotlights enables architectural details to be highlighted or objects to be accentuated as precisely as in a museum. The luminaire head can be swivelled by up to 20° for this purpose.

Narrow spot < 10°
Spot 10° - 20°
Flood 25° – 35°

Products with these features can be found on the next page.
Outdoors

Recessed luminaires

2W/210lm – 24W/3300lm
8W/840lm – 32W/4400lm

Quintessence round

Compact

Downlights, wallwashers and directional luminaires

Five light distributions

Very high visual comfort

Hospitality

Downlights and wallwashers

Four sizes

High visual comfort

Hospitality

Quintessence round – The system solution for excellent visual comfort

High visual comfort and optimum light quality – in indoor and outdoor areas
Quintessence recessed luminaires take the visual comfort and the light quality of downlights, wallwashers and directional luminaires into the outdoor area. The optical systems of the downlights and wallwashers achieve high uniformity with good glare control, making them superb for extensive illumination in large areas. The exceptionally wide light distribution of the downlights with a 90° beam angle and a 40° cut-off produces highly uniform and glare-free light, with luminaires that are spaced far apart. For precise accentuation, the optical system of the directional luminaires can be tilted by 20° and rotated through 360°. With a protection rating of IP65, Quintessence recessed luminaires are the efficient lighting tool for perception-orientated lighting concepts in outdoor areas with canopies and for indoor applications that call for a high degree of protection against moisture and dust.

Related ranges
Quintessence round
Recessed spotlight, recessed floodlights
Page 152
Quintessence round
Recessed luminaires
Page 174
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO low brightness reflector
- Downlight: cut-off angle 40° from horizontal
- Polymer, aluminum vaporized, specular
  - or
- Wallwasher reflector
  - Cut-off angle 80° from horizontal
  - Polymer, aluminum vaporized, specular

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Directional luminaire with collimating lens made of optical polymer: 0°-20° tilt, 360° rotation

3 Diffuser or lens
- Made of optical polymer
- Diffuser lens, extra wide flood or lens system, wallwash
- Directional luminaire with Spherolit lens narrow spot, spot or flood

4 Cover ring
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Silver, double powder-coated
- Safety glass

5 Housing
- Cast aluminum, powder-coated silver
- Mounting with 2- or 3-point contact and screw fastening. Max. ceiling thickness 1 3/16”
- Side-attached installation unit: polymer, black

6 Control gear
- Trailing edge dimmable
- Operation at 120V: Dimming with external dimmers possible
- Operation at 277V: switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Reflector: coated matt gold, matt silver or matt champagne

Please contact your ERCO consultant.

Design and application:
www.erco.com/quintessence-o
**Quintessence round** Recessed luminaires

**Very high visual comfort**
The low brightness reflector combines maximum visual comfort with an optimum light output ratio.

**Special characteristics**
- Excellent visual comfort
- ERCO high-power LEDs
- Cut-off 40°/80° from horizontal
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Switchable
- Trailing edge dimmable
- Wet location

**ERCO Program 2020**
Quintessence round Recessed luminaires

Construction size
- Size 3
- Size 5

LED module
Maximum value at 4000K CRI 82
- 12W/1650lm
- 2W/275lm (Narrow spot)
- 24W/3300lm
- 6W/825lm (Narrow spot)

Light color
- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 82
- 3000K CRI 97 *
- 4000K CRI 82
- 2700K CRI 92 *
- 3500K CRI 92 *
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 97 *
- 4000K CRI 92 *

Light distribution
- Downlights
- Directional luminaires
- Extra wide flood
- Narrow spot
- Narrow spot
- Narrow spot
- Wallwashers
- Spot
- Spot
- Wallwash
- Flood
- Flood

Control
- Trailing edge dimmable
- Switchable **

Color (housing)
- Silver
- Silver

Accessories
- Concrete housing

* available on request
** Only for narrow spot light distribution

Article numbers and planning data: www.erco.com/015746-us
Design and application: www.erco.com/quintessence-o
Compact – Efficient and economical

Brilliant light for roofed areas. Compact – ideal for outdoor use
The need for high performance lighting applies equally to the exterior environment. The Compact downlight combines brilliant light with the familiar durability of ERCO's other exterior solutions. Extra wide flood and oval flood as different light distributions enable its use in passageways and arcades as well as on the terrace of a private residence. Compact also supports superb vertical illumination with its wallwashing distribution.

Related ranges
Compact
Surface-mounted luminaires
Page 422
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO lens system
   - Made of optical polymer
   - Light distributions: extra wide flood, oval flood or wallwash

2 ERCO LED-module
   - High-power LEDs: warm white (3000K) or neutral white (4000K)

3 Anti-glare ring with cross baffle
   - Optical cut-off 30° from horizontal
   - Polymer, aluminum vaporized, silver, ribbed
   - Wallwasher reflector
     - Optical cut-off 30° or 40° from horizontal
     - Polymer, aluminum vaporized, silver, ribbed, with diffuser on the underside

4 Cover ring
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Silver, double powder-coated
   - Non-reflective safety glass

5 Housing
   - Corrosion-resistant cast aluminum, No-Rinse surface treatment
   - Silver, double powder-coated
   - Mounting with 2- or 3-point contact and screw fastening. Max. ceiling thicknesses 1 3/16".
   - Side-attached installation unit: polymer or cast aluminum, black

6 Control gear
   - Switchable and trailing edge dimmable
     - Trailing edge dimmable version:
       - Operation at 120V: Dimming with external dimmers possible
       - Operation at 277V: switchable
   - Suitable for wet locations (IP65)
   - Dust-proof and water jet-proof
   - Variants on request
     - High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
     - Anti-glare ring with cross baffle: coated matt gold, matt silver or matt champagne
   - Please contact your ERCO consultant.
Various construction sizes
The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

Wide luminaire spacing with wallwashing
Efficient ERCO photometrics allow certain luminaires to be spaced unusually far apart at up to 1.5 times the distance to wall.

Special characteristics
- Various construction sizes
- Wide luminaire spacing with wallwashing
- ERCO high-power LEDs
- Efficient lens system
- Optical cut-off 30°/40° from horizontal
- Different light colors
- Excellent thermal management
- EMC-optimized
- Shallow recess depth
- Switchable
- Trailing edge dimmable
- Wet location

ERCO Program 2020
## Compact Recessed Luminaires

### Construction Size

<table>
<thead>
<tr>
<th>Size 3</th>
<th>Size 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>140mm</td>
<td>177mm</td>
</tr>
<tr>
<td>5 1/2&quot;</td>
<td>7&quot;</td>
</tr>
</tbody>
</table>

### LED Module

- **Maximum value at 4000K CRI 82**
  - **Size 3**: 8W/1100lm
  - **Size 4**: 16W/2200lm

### Light Color

<table>
<thead>
<tr>
<th>Color</th>
<th>Size 3</th>
<th>Size 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700K CRI 92 *</td>
<td>2700K CRI 92 *</td>
<td></td>
</tr>
<tr>
<td>3000K CRI 92</td>
<td>3000K CRI 92</td>
<td></td>
</tr>
<tr>
<td>3000K CRI 97 *</td>
<td>3000K CRI 97 *</td>
<td></td>
</tr>
<tr>
<td>4000K CRI 82</td>
<td>4000K CRI 82</td>
<td></td>
</tr>
<tr>
<td>3000K CRI 92</td>
<td>4000K CRI 92</td>
<td></td>
</tr>
</tbody>
</table>

### Light Distribution

- **Downlights**
  - **Oval Flood**
  - **Extra Wide Flood**
  - **Lens Wallwashers**
  - **Wallwash**

### Control

- **Switchable**
- **Trailing edge dimmable**

### Color (Housing)

<table>
<thead>
<tr>
<th>Color</th>
<th>Size 3</th>
<th>Size 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>Silver</td>
<td>Silver</td>
</tr>
<tr>
<td>10,000 colors *</td>
<td>10,000 colors *</td>
<td>10,000 colors *</td>
</tr>
</tbody>
</table>

### Accessories

- Concrete housing
Size 5

- Trailing edge
- Dimmable
- 24W/3300lm
- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 97 *
- 4000K CRI 92 *
- Silver
- 10,000 colors *

Size 7

- Switchable
- 32W/4400lm
- 2700K CRI 92 *
- 3500K CRI 92 *
- 3000K CRI 92
- 4000K CRI 82
- 3000K CRI 92
- 4000K CRI 92 *
- Silver
- 10,000 colors *

* available on request

Article numbers and planning data: www.erco.com/013903-us
Design and application: www.erco.com/compact-o
Pragmatic. Convincing.
Surface-mounted luminaires

Very pragmatic considerations often lead to the use of surface-mounted luminaires: In outdoor applications, there are often no suspended ceilings but concrete ceilings or supporting structures. The deliberate choice of a lighting concept with surface-mounted luminaires considerably reduces installation complexity, for example in solid ceilings or in existing buildings, and planning can be flexibly adapted to the conditions.

Overview of all ranges: from p. 420
www.erco.com/downlights-s-ext/en_us
Guiding with light
- Simple installation due to surface-mounted solution
- Available with various light distributions, wattages and sizes
- Ideal for relighting with existing cable outlets
Products used:
Compact p. 422

Economical general lighting
- Wide light distributions enable large luminaire spacing and low project costs
- Very flat construction height
- Robust luminaires with high protection ratings for use in demanding room climates
Products used:
Lightscan p. 428
This distinguishes our surface-mounted luminaires.

Simple installation due to surface-mounted solution

In existing buildings or with solid ceilings, surface-mounted luminaires considerably reduce installation complexity. Accessories such as spacers additionally help with surface-mounted installations.

Large luminaire spacing

With some wallwashers and luminaires with oval flood light distribution, the luminaire spacing can be up to 1.5 times the distance to the wall. Specific information is provided in the wallwasher tables at www.erco.com. A computer-aided calculation is recommended for assessing possible light beam spreads.

Wallwash Extra wide flood >80°
Oval flood approx. 20° x 60°

Simple installation due to surface-mounted solution

In existing buildings or with solid ceilings, surface-mounted luminaires considerably reduce installation complexity. Accessories such as spacers additionally help with surface-mounted installations.

Large luminaire spacing

With some wallwashers and luminaires with oval flood light distribution, the luminaire spacing can be up to 1.5 times the distance to the wall. Specific information is provided in the wallwasher tables at www.erco.com. A computer-aided calculation is recommended for assessing possible light beam spreads.

Wallwash Extra wide flood >80°
Oval flood approx. 20° x 60°
Improved visual comfort

ERCO has developed luminaires especially for demanding visual tasks which offer increased visual comfort due to their special housing shape and high-quality optical components.

Customize

“ERCO individual” offers extensive options for customizing product ranges:

www.erco.com/individual

Oval flood, freely rotatable

The round version of the oval flood Spherolit lens can be freely rotated to align lighting optimally to various objects.

Wide flood >45°

Wet location

Luminaires marked with “wet location” are suitable for both outdoor and indoor use.

Products with these features can be found on the next page.
### Compact

- **Surface-mounted luminaires**
- **Outdoors**

#### Downlights and wallwashers

<table>
<thead>
<tr>
<th>Power</th>
<th>Luminance</th>
</tr>
</thead>
<tbody>
<tr>
<td>16W/1680lm</td>
<td>24W/3300lm</td>
</tr>
<tr>
<td>48W/5040lm</td>
<td>96W/13200lm</td>
</tr>
</tbody>
</table>

#### High visual comfort
- Hospitality, Community

#### Large luminaire spacing

#### Flat luminaire design
- Hospitality, Community

### Lightscan

- **Outdoors**

#### Downlights in three sizes

#### Large lumen packages for high illuminances

#### Hospitality, Community
Fürholzen West
roadhouse,
Fürholzen. Archi-
tecture: Allmann
Sattler Wappner,
Munich.
Lighting design:
Weiser Lighting,
Troisdorf.
Photography:
Moritz Hille-
brand, Zurich.

Circolo Sportivo
RAI, Rome.
Photography:
Thomas Mayer,
Neuss.
Compact – Efficient and economical

Perfect solution for illumination in existing buildings. Compact is the versatile tool

Lighting design based on surface-mounted downlights need not be a workaround. The Compact downlight combines brilliant light with the robustness of outdoor luminaires. Compact as a surface-mounted downlight is the perfect solution for illumination in existing buildings where recessed mounting is not possible. Extra wide flood and oval flood as different light distributions enable its use in passageways and arcades as well as on the terrace of a private residence. Compact can just as easily be used for vertical illuminance through wallwashing.

Related ranges

Compact
Recessed luminaires
Page 410
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO lens system
- Made of optical polymer
- Light distributions: extra wide flood, oval flood or wallwash

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)

3 Anti-glare ring with cross baffle
- Optical cut-off 30° from horizontal
- Polymer, aluminum vaporized, silver, ribbed

or
- Wallwasher reflector
- Optical cut-off 30° or 40° from horizontal
- Polymer, aluminum vaporized, silver, ribbed, with diffuser on the underside

4 Cylinder and ceiling plate
- Graphit m
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Double powder-coated
- Non-reflective safety glass

5 Control gear
- Trailing edge dimmable
- Operation at 120V: Dimming with external dimmers possible
- Operation at 277V: switchable

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Anti-glare ring with cross baffle: coated matt gold, matt silver or matt champagne
- Housing: 10,000 further colors

Please contact your ERCO consultant.
Various construction sizes

The luminaires in the ERCO product range cover a wide variety of lumen categories and therefore offer an appropriate solution for a large number of lighting tasks.

Wide luminaire spacing with wallwashing

Efficient ERCO photometrics allow certain luminaires to be spaced unusually far apart at up to 1.5 times the distance to wall.

Special characteristics

- ERCO high-power LEDs
- Efficient lens system
- Optical cut-off 30°/40° from horizontal
- Different light colors
- Excellent thermal management
- EMC-optimized
- Wet location
- Trailing edge dimmable

Compact Surface-mounted luminaires
Compact Surface-mounted luminaires

Construction size

Size 4

Size 5

LED module

Maximum value at 4000K CRI 82

16W/2200lm

24W/3300lm

Light color

2700K CRI 92 *

3000K CRI 92

3000K CRI 97 *

2700K CRI 92 *

3000K CRI 92

3000K CRI 97 *

Light distribution

Surface-mounted downlights
Extra wide flood
Oval flood
Surface-mounted lens wallwashers
Wallwash
Surface-mounted downlights
Extra wide flood
Oval flood
Surface-mounted lens wallwashers
Wallwash

Control

Trailing edge dimmable

Trailing edge dimmable

Color (housing)

Graphit m

10,000 colors *

Graphit m

10,000 colors *

* available on request Article numbers and planning data:
www.erco.com/013946-us
Design and application:
www.erco.com/compact-o-s
Lightscan – Powerful light for large spaces

Effective and efficient general lighting for passages and traffic routes
Lightscan ceiling surface-mounted luminaires provide strong, efficient general lighting for large rooms requiring higher protection ratings in indoor and outdoor areas along with easy maintenance. The higher luminous flux levels enable illumination over large distances and guarantee an excellent lighting level on the floor. The light distributions wide flood, extra wide flood and oval flood are ideal for use in railway stations, passages and arcades as well as traffic areas in buildings. The maintenance-free optoelectronics protect resources thanks to their high efficiency and also reduce operating costs.

Related ranges
- Lightscan Projectors, flood-lights, wallwashers Page 302
- Lightscan Façade luminaires Page 324
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spherolit lens
- Light distributions: wide flood, extra wide flood or oval flood
- Oval flood 360° rotation

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer

3 Cover frame
- Cast aluminum, black powder-coated
- Safety glass

4 Housing and ceiling fixture
- Graphit m
- Corrosion-resistant cast aluminum, No-Rinse surface treatment
- Double powder-coated

5 Control gear
- 0-10V dimmable

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Housing: 10,000 further colors
Please contact your ERCO consultant.

Suitable for wet locations (IP65)
Dust-proof and water jet-proof

Design and application:
www.erco.com/lightscan-o-s
**Lightscan** Surface-mounted luminaires

**Improved visual comfort**
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

**Large lumen packages for very high illuminances**
ERCO offers luminaires with large lumen packages for generating very high illuminances.

**Oval flood freely rotatable**
The round oval flood Spherolit lens can be freely rotated with all luminaires to optimally align the light to various objects.

---

**Special characteristics**

<table>
<thead>
<tr>
<th>Improved visual comfort</th>
<th>ERCO high-power LEDs</th>
<th>Efficient Spherolit technology</th>
<th>Excellent thermal management</th>
<th>0–10V dimmable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large lumen packages for very high illuminances</td>
<td>Different light colors</td>
<td>EMC-optimized</td>
<td>Various construction sizes</td>
<td>Wet location</td>
</tr>
</tbody>
</table>
**Lightscan** Surface-mounted luminaires

**Construction size**

- 48W/6600lm
- 72W/9900lm

**LED module**

Maximun value at 4000K CRI 82

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

**Light distribution**

- Surface-mounted downlights
- Surface-mounted downlights oval flood
- Wide flood
- Oval flood
- Extra wide flood

**Control**

- 0–10V

**Color (housing)**

- Graphit m
- 10,000 colors *

**Accessories**

- Mounting plate
Graphit m
10,000 colors *

96W/13200lm

Surface-mounted downlights
Surface-mounted downlights oval flood
Wide flood
Oval flood
Extra wide flood

0–10V

2700K CRI 92 *
3500K CRI 92 *
3000K CRI 92
4000K CRI 82
3000K CRI 97 *
4000K CRI 92 *
3000K CRI 97 *
4000K CRI 92 *

* available on request

Article numbers and planning data:
www.erco.com/015412-us
Design and application:
www.erco.com/lightscan-o-s

ERCO Program 2020
Watertight. Effective.

In-ground luminaires

In-ground luminaires attract attention because both the light sources on the ground and the direction of light from above to below are unusual and therefore particularly noticeable. They are therefore ideal for effective architectural lighting—from accent lighting to uniform wallwashing.

In-ground luminaires also perform technical tasks just as effectively. As information lighting, they indicate pathways and mark entrances for example.

Overview of all ranges: from p. 442

www.erco.com/ground-luminaires-ext/en_us
In-ground luminaires Application examples

Creating visual references with wallwashing
- Wallwashing gives walls a bright appearance and follows lines of sight
- Vertical lighting outdoors defines dimensions
- High rooms and walls can also be uniformly illuminated thanks to high lumen packages

Products used:
Tesis round p. 444

Emphasizing landmarks
- Wide light distributions create uniform accentuation
- Luminaires with high lumen packages for lighting from a large distance
- Simple alignment of the light beam thanks to pivotable luminaires avoids light spill in the night sky

Products used:
Tesis round p. 444
Creating viewpoints
- Precise light beams avoid light spill in the night sky
- Tiltable optic systems in the luminaires for easy adjustment of the light beam
- ERCO in-ground luminaires can be driven over and are particularly robust—ideal for use in public spaces

Products used:
Tesis round p. 444
Displaying buildings at night
- Different sizes and lumen packages for large and small lighting tasks
- Asymmetric light distribution for uniform wall washing
- Assembly in mounting enclosures allows drive-over by motor vehicles

Products used:
Tesis round p. 444

Highlighting brands
- Uniform grazing light emphasizes material and structures
- High uniformity even with very short distance to wall
- Matched quality of light and material emphasize the prestige of the brand

Products used:
Site p. 466
These lighting tools solve your lighting problems

You'd like to uniformly illuminate a 20 ft high facade?

You'd like to precisely accentuate the smallest details from large distances?

Lens wallwashers for uniform vertical lighting

- Small distance to wall possible
- Excellent uniform brightness distribution
- Ideal for facades and walls in outdoor areas

Directional spotlights for impressive accentuations

- Tiltable for easy adjustment of the light beam
- Light distributions from very narrow <10° to wide approx. 35° to 90°
- Precise light beams for high illuminances on the target surface
You'd like to accentuate the textures of a 13ft high wall?

Grazing light wallwashers for the effective illumination of wall structures

- Very close distance to wall, 12" possible
- Tilted by +/- 10° and thus precisely adjustable on site
- Extremely uniform vertical brightness distribution

You'd like to uniformly illuminate facades with a minimum number of luminaires?

Lens wallwashers for large luminaire spacings

- Luminaire spacing up to 1.5 times the distance to the wall
- Small number of luminaires reduces project costs
- Excellent uniform brightness distribution
From small to large
The right size and lumen package for any project: from uniform facade lighting to the functional orientation lighting of urban squares.

Light from the ground
Whatever you wish to illuminate, you’ll find the right recessed floor luminaires with the right light distributions in the form of ERCO uplights, directional spotlights, lens wallwashers, and grazing light wallwashers.

Quality of light with precision
ERCO luminaires project their light via highly efficient Spherolit technology. This creates precisely defined beams of light without spill light. It is noteworthy that high illuminance is achieved even with small wattages.

This distinguishes our in-ground luminaires

Lens wallwashers for uniform brightness distribution on vertical surfaces.

Uplights for uniform illumination from below for trees and architectural features.
Pivotable

Directional spotlights and grazing light wallwashers can be simply and precisely adjusted for optimum alignment of the light beam. The light is thus emitted to exactly where it is needed.

High visual comfort

To achieve a particularly high level of visual comfort, ERCO has developed luminaires that ideally shield the light source thanks to their special housing design.

Customize

“ERCO individual” offers extensive options to individualize product ranges, e.g. with anti-slip glass: www.erco.com/individual

Wet location

Luminaires marked with “wet location” are suitable for both outdoor and indoor use.

Efficient building guidance technology

ERCO orientation luminaires with up to 40 luminaires per control unit mark paths, stairs, and corridors.

Strong mounting enclosure

Robust, corrosion-free mounting enclosures allow recessed floor luminaires to be walked on and driven over.

Products with these features can be found on the next page.
### Outdoors

**Wallwashers, uplights and directional luminaires**

- **Tesis round**
  - Pivotal directional luminaires for accent lighting
  - High uniformity with wallwashing
  - Six light distributions

- **Tesis square**
  - Pivotal directional luminaires for accent lighting
  - High uniformity with wallwashing
  - Six light distributions

- **Site**
  - Impressive grazing light
  - Very high visual comfort
  - Large luminaire spacing
  - Public, Hospitality

### Orientation luminaires and floor washlights

- **Orientation luminaires**
  - Floor washlights available
  - Small luminaire dimensions
  - Blue LEDs available
  - Hospitality, Community

---

<table>
<thead>
<tr>
<th>Luminaires</th>
<th>Power Range</th>
<th>Luminous Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>2W/210lm – 32W/4400lm</td>
<td>24W/2520lm – 24W/3300lm</td>
<td>2W/210lm – 32W/4400lm</td>
</tr>
</tbody>
</table>

Tesis round – The benchmark in the outdoor area

An innovative archetype in outdoor lighting
Tesis has long been a regular feature in the outdoor range. In a completely upgraded version, it now delivers an entirely new level of performance. Innovative photometrics ensure maximum brilliance and efficiency. A considerably flatter housing thanks to LED technology ensures exceptionally straightforward installation – in both round and square version. The robust polymer housing is fully corrosion-resistant and designed to ensure long life and ease of use. Be it directional luminaire, upright or wallwasher, Tesis sets the benchmark in outdoor lighting.

Related ranges

Tesis square
In-ground luminaires
Page 452
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spheronit lens
- Directional spotlight light distributions: narrow spot, spot, flood or oval flood
- Uplight light distribution: wide flood or

   Lens wallwasher
- Optical cut-off 40° from horizontal
- ERCO lens system: wallwash
- Wallwasher reflector: metal or polymer, aluminized, silver, textured, partially coated black, with diffuser on lower side

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer
- Directional spotlight pivotable through 0° - 30°

3 Cover ring
- Covered or flush mounting detail
- Stainless steel
- Safety glass: 9/19” / 15mm, transparent

4 Housing
- Polymer, black
- Longitudinally watertight cable AWG14, L 31 1/2” / 800mm
- Installation with separate connection sleeve
- Mounting is possible without mounting enclosure
- Installation in mounting enclosure: driveable, can be driven over by vehicles with air-filled tyres. Load 4500lb.wt / 20kN or 11240lb.wt / 50kN
- Hollow floor installation only with overlapping installation detail: fixing set to be ordered separately

5 Control gear
- Switchable, trailing edge dimmable or 0-10V dimmable
- Trailing edge dimmable version:
  - Operation at 120V: Dimming with external dimmers possible
  - Operation at 277V: switchable
- Suitable for wet location (IP68)
  Dust-proof. Protected against the results of continuous submersion up to a depth of max. 3m.

Variants on request
- High-power LEDs: 3000K 97 or 2700K, 3500K, 4000K with CRI 92
- Cover ring: V4A stainless steel
- Anti-slip safety glass
  Please contact your ERCO consultant.

Design and application:
www.erco.com/tesis-round
**Tesis round** In-ground luminaires

Outstanding uniformity
To meet the stringent standards of vertical illuminance, ERCO has developed luminaires specifically to produce exceptionally uniform levels of illuminance.

Improved visual comfort
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Available in round or square
The ERCO system design includes round and square versions to provide luminaires suited to the architecture and surroundings.

Large luminaire spacing
For some wallwashers, the luminaire spacing may be up to 1.5 times the offset from the wall. Corresponding details are provided in the wallwasher tables in the catalog or the product data sheets. Computerized beam calculations are recommended to check potential intersections with side walls.

**Special characteristics**
- Improved visual comfort
- Outstanding uniformity
- Available in round or square
- Wide luminaire spacing with wallwashing
- ERCO high-power LEDs
- Efficient Spherolit technology
- Optical cut-off 40° from horizontal
- Different light distributions
- Different light colors
- Excellent thermal management
- EMC-optimized
- Various construction sizes
- Flush or covered mounting detail
- Wet location
- Switchable
- Trailing edge dimmable
- 0–10V dimmable

ERCO Program 2020 447
**Tesis round In-ground luminaires**

**Construction size**
- **Size 3**
  - LED module: Maximum value at 4000K CRI 82
  - Light color: 8W/1100lm
  - Light distribution: Lens wallwasher, Wallwash, Uplight, Wide Flood
  - Control: Trailing edge dimmable

- **Size 4**
  - LED module: Maximum value at 4000K CRI 82
  - Light color: 16W/2200lm 2W/275lm (Narrow spot)
  - Light distribution: Lens wallwasher, Directional luminaire
  - Control: 0–10V Switchable **

**Light color**
- 2700K CRI 92 * 3500K CRI 92 *
- 3000K CRI 92 4000K CRI 82
- 3000K CRI 97 * 4000K CRI 92 *

**Light distribution**
- Lens wallwasher
  - Wallwash
  - Uplight
  - Wide Flood

**Control**
- Trailing edge dimmable

**Accessories**
- Connection sleeve
- Mounting kit
- Recessed housing

448 ERCO Program 2020
Size 5

4W/550lm (Narrow spot)  
24W/3300lm

- 2700K CRI 92*
- 3000K CRI 92
- 3000K CRI 97*
- 3500K CRI 92*
- 4000K CRI 82

Directional luminaire
Narrow spot

- Wallwash
- Uplight
- Wide Flood
- Spot
- Flood
- Oval flood

0–10V 0–10V  Switchable

* available on request
** Only for narrow spot light distribution

Article numbers and planning data:  www.erco.com/015146-us
Design and application:  www.erco.com/tesis-round
### Tesis round In-ground luminaires

#### Construction size

<table>
<thead>
<tr>
<th>Size 7</th>
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</thead>
<tbody>
<tr>
<td>12 3/4&quot; (324mm)</td>
</tr>
<tr>
<td>9 1/16&quot;</td>
</tr>
</tbody>
</table>

#### LED module

- Maximum value at 4000K CRI 82
- 32W/4400lm
- 8W/1100lm (Narrow spot)

#### Light color

<table>
<thead>
<tr>
<th>Light color</th>
<th>2700K CRI 92 *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3500K CRI 92 *</td>
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<tr>
<td>3000K CRI 92</td>
<td>4000K CRI 82</td>
</tr>
<tr>
<td>3000K CRI 97</td>
<td>4000K CRI 92 *</td>
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</tbody>
</table>

#### Light distribution

<table>
<thead>
<tr>
<th>Light distribution</th>
<th>Lens wallwasher</th>
<th>Directional luminaire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wallwash</td>
<td>Narrow spot</td>
<td></td>
</tr>
<tr>
<td>Uplight</td>
<td>Spot</td>
<td></td>
</tr>
<tr>
<td>Wide Flood</td>
<td>Flood</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oval flood</td>
<td></td>
</tr>
</tbody>
</table>

#### Control

- 0–10V

#### Accessories

- Connection sleeve
- Mounting kit
- Recessed housing

450 ERCO Program 2020
Facade of Brandsende office building, Hamburg.
Tesis square – The benchmark in the outdoor area

An innovative archetype in outdoor lighting

Tesis has long been a regular feature in the outdoor range. In a completely upgraded version, it now delivers an entirely new level of performance. Innovative photometrics ensure maximum brilliance and efficiency. A considerably flatter housing thanks to LED technology ensures exceptionally straightforward installation – in both round and square version. The robust polymer housing is fully corrosion-resistant and designed to ensure long life and ease of use. Be it directional luminaire, upright or wallwasher, Tesis sets the benchmark in outdoor lighting.

Related ranges

Tesis round
In-ground luminaires
Page 444
Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO Spheronit lens
- Directional spotlight light distributions: narrow spot, spot, flood or oval flood
- Uplight light distribution: wide flood
- Lens wallwasher
- Optical cut-off 40° from horizontal
- ERCO lens system: wallwash
- Wallwasher reflector: metal or polymer, aluminized, silver, textured, partially coated black, with diffuser on lower side

2 ERCO LED-module
- High-power LEDs: warm white (3000K) or neutral white (4000K)
- Collimating lens made of optical polymer
- Directional spotlight pivotable through 0°-30°

3 Cover frame
- Covered or flush mounting detail
- Stainless steel
- Safety glass: 9/19" / 15mm, transparent

4 Housing
- Polymer, black
- Longitudinally watertight cable AWS14, L 31 1/2" / 800mm
- Installation with separate connection sleeve
- Mounting is possible without mounting enclosure
- Installation in mounting enclosure: driveable, can be driven over by vehicles with air-filled tyres. Load 4500lb.wt / 20kN or 11240lb.wt / 50kN
- Hollow floor installation only with overlapping installation detail: fixing set to be ordered separately

5 Control gear
- Switchable, trailing edge dimmable or 0-10V dimmable
- Trailing edge dimmable version:
  - Operation at 120V: Dimming with external dimmers possible
  - Operation at 277V: switchable

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Cover frame: V4A stainless steel
- Anti-slip safety glass
Please contact your ERCO consultant.

Design and application:
www.erco.com/tesis-square

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Cover frame: V4A stainless steel
- Anti-slip safety glass
Please contact your ERCO consultant.
**Tesis square** In-ground luminaires

**Outstanding uniformity**
To meet the stringent standards of vertical illuminance, ERCO has developed luminaires specifically to produce exceptionally uniform levels of illuminance.

**Improved visual comfort**
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

**Available in round or square**
The ERCO system design includes round and square versions to provide luminaires suited to the architecture and surroundings.

**Large luminaire spacing**
For some wallwashers, the luminaire spacing may be up to 1.5 times the offset from the wall. Corresponding details are provided in the wallwasher tables in the catalog or the product data sheets. Computerized beam calculations are recommended to check potential intersections with side walls.

---

### Special characteristics

<table>
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<tr>
<th>Improved visual comfort</th>
<th>ERCO high-power LEDs</th>
<th>Excellent thermal management</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERCO Program 2020</td>
<td>Excellent thermal management</td>
<td>Switchable</td>
</tr>
<tr>
<td>ERCO high-power LEDs</td>
<td>Efficient Spherolit technology</td>
<td>0-10V dimmable</td>
</tr>
<tr>
<td>ERCO Program 2020</td>
<td>Optical cut-off 40° from horizontal</td>
<td>EMC-optimized</td>
</tr>
<tr>
<td>ERCO Program 2020</td>
<td>Various construction sizes</td>
<td>0–10V dimmable</td>
</tr>
<tr>
<td>ERCO Program 2020</td>
<td>Different light distributions</td>
<td>Wet location</td>
</tr>
<tr>
<td>ERCO Program 2020</td>
<td>Different light colors</td>
<td>0–10V dimmable</td>
</tr>
<tr>
<td>ERCO Program 2020</td>
<td>Wet location</td>
<td>0–10V dimmable</td>
</tr>
</tbody>
</table>

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**ERCO Program 2020 455**
**Tesis square In-ground luminaires**

**Construction size**

- **Size 3**
- **Size 4**

**LED module**
- Maximum value at 4000K CRI 82
  - **Size 3**
    - 8W/1100lm
  - **Size 4**
    - 16W/2200lm
    - 2W/275lm (Narrow spot)

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 82
- 4000K CRI 92 *

**Light distribution**

- Lens wallwashers
  - Wallwash
  - Uplights
  - Wide Flood
- Directional luminaires
  - Wallwash
  - Narrow spot
  - Uplights
  - Spot
  - Wide Flood
  - Flood
  - Oval flood

**Control**

- Trailing edge dimmable
- 0–10V
- Switchable **

**Accessories**

- Connection sleeve
- Mounting kit
- Recessed housing

---

456   ERCO Program 2020
Size 5

4W/550lm (Narrow spot)

2700K CRI 92 *
3000K CRI 92
3000K CRI 97 *

3500K CRI 92 *
4000K CRI 82
4000K CRI 92 *

Directional luminaires

Narrow spot

24W/3300lm

2700K CRI 92 *
3000K CRI 92
3000K CRI 97 *

3500K CRI 92 *
4000K CRI 82
4000K CRI 92 *

Lens wallwashers

Wallwash
Uplights
Wide Flood

Directional luminaires

Spot
Flood
Oval flood

0–10V 0–10V
Switchable

* available on request
** Only for narrow spot light distribution

Article numbers and planning data:
www.erco.com/018336-us
Design and application:
www.erco.com/tesis-square
**Tesis square** **In-ground luminaires**

**Construction size**

Size 7

**LED module**

Maximum value at 4000K CRI 82

32W/4400lm 8W/1100lm (Narrow spot)

**Light color**

- 2700K CRI 92 *
- 3000K CRI 92
- 3000K CRI 97 *
- 3500K CRI 92 *
- 4000K CRI 92 *
- 4000K CRI 92 *

**Light distribution**

<table>
<thead>
<tr>
<th>Lens wallwashers</th>
<th>Directional luminaires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wallwash</td>
<td>Narrow spot</td>
</tr>
<tr>
<td>Uplights</td>
<td>Spot</td>
</tr>
<tr>
<td>Wide Flood</td>
<td>Flood</td>
</tr>
<tr>
<td></td>
<td>Oval flood</td>
</tr>
</tbody>
</table>

**Control**

0–10V 0–10V

**Accessories**

- Connection sleeve
- Mounting kit
- Recessed housing

458 ERCO Program 2020

* available on request

Article numbers and planning data:
www.erco.com/018336-us
Design and application:
www.erco.com/tesis-square
Orientation luminaires – Right to the point

High-quality light for guidance and orientation
The orientation luminaires illuminate pathways, mark out entrances, contribute to safety on stairs, and identify architectural lines – with white or blue light. Stainless steel covers and scratch-resistant glass ensure that the orientation luminaires will function as high-quality lighting tools illuminating your architecture for years to come. Their special optical components make these orientation luminaires highly visible even in bright surroundings.

Featuring the same LED performance as other ERCO lighting tools, these luminaires can easily be combined with other ERCO solutions. Their low energy consumption means up to forty luminaires can be connected per control gear.
Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 ERCO LED-module
   - Light colors: warm white (3000K), neutral white (4000K) or blue
   - Floor washlight
     - Reflector: polymer, aluminized, matt silver

2 Cover ring
   - Stainless steel
   - Safety glass: 1/4" / 6mm
   - Load 1124lb wt / 5kN
   - Prismatic lens with point-based light emission

3 Installation sleeve with lamellae
   - Polymer
   - Housing with sealing: stainless steel
   - Cable, L 19 11/16" / 500mm
   - Installation unit to be ordered separately

Suitable for wet location (IP68)
Dust-proof. Protected against the results of continuous submersion up to a depth of max. 3m.

Design and application:
www.erco.com/orientation-luminaires
Orientation luminaires

Small luminaire dimensions
Small luminaires are discreet and place the focus on the light itself. Compact luminaire dimensions are particularly advantageous with small rooms.

Floor washlight
The recommended mounting height of floor washlights is approx. 0.4m at the wall.

Special characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERCO LEDs</td>
<td>Excellent thermal management</td>
</tr>
<tr>
<td>Different light colors</td>
<td>EMC-optimized</td>
</tr>
<tr>
<td>Various construction sizes</td>
<td>Wet location</td>
</tr>
<tr>
<td>Switchable</td>
<td></td>
</tr>
</tbody>
</table>

ERCO Program 2020 463
Orientation luminaires

**Construction size**

- Ø 1 5/8"
- Ø 2 1/4"

**LED module**

Max. value at 4000K
- 0.3W/5lm
- 0.6W/24lm
- 0.6W/6lm

**Light color**

- 3000K
- 4000K
- Blue

**Light distribution**

- Orientation luminaires
  - Orientation
  - Floor washlights
    - Wide beam

**Control**

- Switchable

**Accessories**

- Installation unit
- Recessed housing

464 ERCO Program 2020
CCK Centro Cultural Kirchner, Buenos Aires.
Architecture: B4FS
Site – Emphasizing wall structures for a three-dimensional effect

Grazing light wallwashers accentuate surface texture on walls and façades

Site emphasizes the tactile qualities of architectural materials: The grazing light wallwasher brings out the finest wood, concrete or brick texture as exquisitely as rough surfaces such as natural stone, thereby enabling the luminaire to set off historic features or regional materials. In contrast to conventional wallwashers which give walls a soft character, Site adds an almost tactile dimension through high-contrast light and shadow effects. The luminaire can be tilted conveniently by up to 10° in both directions. With its asymmetrical light distribution, the grazing light wallwasher can be positioned as close as 12" (30cm) from the wall and still produce an exceptionally uniform beam. The resulting special rendering of vertical illuminance combines strikingly illuminated texture for scenic effect with efficient outdoor illumination.
1 Softec lens
   - High-power LEDs: warm white (3000K) or neutral white (4000K)
   - Collimating lens made of optical polymer
   - ±10° tilt

2 ERCO LED-module
   - Longitudinally watertight cable AWG14, L 31 1/2" / 800mm
   - Installation with separate connection sleeve
   - Installation in mounting enclosure: driveable, can be driven over by vehicles with air-filled tyres. Load 4500lb wt / 20kN
   - Hollow floor installation only with overlapping installation detail: Fixing set to be ordered separately

3 Frame
   - Covered or flush mounting detail
   - Stainless steel
   - Safety glass: 3/8” / 10mm, transparent

4 Housing
   - Polymer, black
   - Longitudinally watertight cable AWG14, L 31 1/2" / 800mm
   - Installation with separate connection sleeve
   - Installation in mounting enclosure: driveable, can be driven over by vehicles with air-filled tyres. Load 4500lb wt / 20kN
   - Hollow floor installation only with overlapping installation detail: Fixing set to be ordered separately

5 Control gear
   - 0-10V dimmable

Suitable for wet location (IP68)
Dust-proof. Protected against the results of continuous submersion up to a depth of max. 3m.

Variants on request
- High-power LEDs: 3000K CRI 97 or 2700K, 3500K, 4000K with CRI 92
- Frame: V4A stainless steel
- Anti-slip safety glass
Please contact your ERCO consultant.
ERCO has developed luminaires with special housing designs and high-quality optical components specifically for demanding visual tasks to provide enhanced visual comfort.

Grazing light wallwashers need to be positioned close to the wall for ideal effects.

ERCO’s efficient photometrics enable selected luminaires to be spaced particularly far apart, thereby minimizing the number of luminaires required.

Special characteristics

- Excellent visual comfort
- Grazing light wallwasher
- Large luminaire spacing possible
- ERCO high-power LEDs
- Different light colors
- Excellent thermal management
- 0–10V dimmable
- EMC-optimized
- Pivotable by ±10°
- Flush or covered mounting detail
- Wet location
- In-ground luminaires

ERCO Program 2020
Site In-ground luminaires

Construction size

LED module
Maximum value at 4000K CRI 82

Light color

Light distribution
Grazing light wallwashers
Grazing light

Control
0–10V

Accessories

Connection sleeve
Mounting kit
Recessed housing

24W/3000lm

2700K CRI 92 *
3500K CRI 92 *
3000K CRI 92
4000K CRI 82
3000K CRI 97 *
4000K CRI 92 *

0–10V

470 ERCO Program 2020
LEDs in ERCO luminaires

The following pages give details of the LEDs used at ERCO. The consistently high quality of these LEDs is the result of a selection process based on criteria which we have described here for your information.

Technical data
ERCO uses the same High-power or Mid-power LEDs for the entire product range. This results in the enormous advantage for users that the quality of light always remains at a consistently high level.

LED modules
ERCO luminaire systems in the catalog are differentiated according to the efficiency of their LED modules. The separate consideration of module luminous flux, luminaire luminous flux and connected load enables better evaluation of the photometric and energetic efficiency. In addition to the module values, the efficiency data for the complete luminaire is separately specified in the catalog and data sheet for this purpose.

High-power LED
- Color temperature
  - 2700K
  - 3000K
  - 3000K
  - 3500K
  - 4000K
  - 4000K
- Luminous efficacy*:
  - 99lm/W
  - 105lm/W
  - 101lm/W
  - 121lm/W
  - 138lm/W
  - 128lm/W
- Color rendering
  - CRI 92
  - CRI 92
  - CRI 97
  - CRI 92
  - CRI 82
  - CRI 92
- Lumen maintenance
  - L90/B10 up to 50,000 hours
  - 0.1% up to 50,000 hours
- Failure rate
  - 0.1% up to 50,000 hours

Mid-power LED
- Color temperature
  - 2700K
  - 3000K
  - 3000K
  - 3500K
  - 4000K
  - 4000K
- Luminous efficacy*:
  - 144lm/W
  - 175lm/W
  - 159lm/W
  - 161lm/W
  - 193lm/W
  - 164lm/W
- Color rendering
  - CRI 92
  - CRI 82
  - CRI 92
  - CRI 92
  - CRI 82
  - CRI 92
- Lumen maintenance
  - L90/B50 up to 50,000 hours
  - 0.1% up to 50,000 hours
- Failure rate
  - 0.1% up to 50,000 hours

* Determination of luminous efficacy: LED module High-power at 700mA; Mid-power at 65mA; T, 25°

Note: all data are statistical averages.
LEDs in ERCO luminaires

**LED selection**
As is the case with all semiconductor products, white LEDs exhibit a degree of production tolerance. Such tolerances exist in areas such as the color loci, lumen maintenance, and forward bias. ERCO considers all these criteria in the selection of its LEDs providing users with the highest possible quality.

**Color consistency (SDCM)**
The SDCM value (Standard Deviation of Color Matching) is used to qualify a light source with regard to color consistency (color location deviation). The SDCM (Standard Deviation of Color Matching) value defines an LED in terms of color consistency (chromaticity variation). It is based on a study conducted by American engineer David MacAdam and describes the degree of deviation from a defined chromaticity coordinate in the CIE diagram. According to MacAdam, the coordinates of all colors perceived as identical lie within an ellipse around the reference color location. The system, created by adding further ellipses of increasing size, is used to classify the maximum color deviation of light sources. Occasionally also referred to as MacAdam ellipse of a certain step size, the commonly accepted term is now SDCM. The higher the SDCM value, the greater the possible deviation of the light color from the color coordinates specified in the technical data of the light source.

In addition to LED selection, the current applied to the LED module and the operating temperature of a luminaire also influence the SDCM value. Higher temperatures may cause a shift in the color location. The operating temperature depends on external conditions such as the ambient temperature, the operating current and the heat management of a luminaire.

**SDCM for ERCO LED modules with High-power LEDs**
ERCO LED modules with High-power LEDs demonstrate very good color consistency. The LEDs are selected with a special binning process, giving the modules an excellent typical initial value of SDCM ≤ 1.5. ERCO achieves this by carefully selecting and combining the LEDs on the modules. See the specific data sheet for the concrete value for the respective luminaire.

**SDCM for ERCO LED modules with Mid-power LEDs**
ERCO LED modules with Mid-power LEDs achieve the excellent typical initial value of SDCM ≤ 1.5. ERCO achieves this by carefully selecting and combining the LEDs on the modules. See the specific data sheet for the concrete value for the respective luminaire.

**Production**
ERCO LED modules in Lüdenscheid, Germany
LEDs in ERCO luminaires

Evaluation of color rendering using Ra (CRI)

Color rendering refers to the ability of a light source to reproduce colors faithfully in comparison with an ideal or natural light source. One method used to quantify the color rendering quality with maximum objectivity is the color rendering index, CRI, also sometimes referred to as Ra in parts of Europe. It is calculated by comparing the color rendering of the test source to that of a reference illuminant with correlated color temperatures. A color rendering index between 90 and 100 is considered very good, and a value between 80 and 90, as good. The CRI method as the only normatively valid process until now is highly controversial in expert circles and should only be used as a rough guide for a light source. For the best results, comparison of several light sources during a visual assessment may be worthwhile.

Damage factor

The relative damage factor is used to assess suitable light sources for conservation requirements such as in museums. It specifies the ratio of the damaging radiation intensity and the illuminance. Warm white LED lighting is even better suited for delicate objects than low-voltage halogen lamps with or without UV filter.

Evaluation of color rendering according to TM-30

As an alternative to the Ra /CRI process, TM-30 defines the values Rf und Rg. These reference the similarity to a test light source and reference spectrum with regard to color fidelity (Rf - fidelity) and saturation (Rg - gamut). The reference light source is a “black body” or standard CIE-D light source. Rf is comparable with Ra, and the calculation method and maximum value of 100 are identical. By considering 99 instead of 8 reference colors, lower values often result with Rf compared to Ra /CRI. Rg specifies the color range, i.e. the size of the displayable color space. A light source with precise, true-to-nature color rendering has an Rg value of 100; both smaller and larger values are possible.

Damage factor

The relative damage factor is used to assess suitable light sources for conservation requirements such as in museums. It specifies the ratio of the damaging radiation intensity and the illuminance. Warm white LED lighting is even better suited for delicate objects than low-voltage halogen lamps with or without UV filter.

If the determined curve is located outside the circumference valid for the reference, colors in this area are rendered with oversaturation. If the curve is inside, the corresponding colors are rendered with a lower saturation.

LEDs in ERCO luminaires have a continuous spectrum, thereby ensuring good to very good color rendering for neutral white (3500 – 4000K) and very good color rendering for warm white (2700 – 3000K). The LEDs deliver practically no UV or IR radiation and have a low damage factor making them ideal particularly for the illumination of sensitive and valuable objects.

Luminaires with tunable white enable the setting of color temperature. This allows the light color to be adapted to daylight and specific visual tasks based on the principle of HCL (Human Centric Lighting).

Light source

<table>
<thead>
<tr>
<th>Light source</th>
<th>Relative damage factor f (mW/lm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED 2700K, CRI 92</td>
<td>0.151</td>
</tr>
<tr>
<td>LED 3000K, CRI 92</td>
<td>0.165</td>
</tr>
<tr>
<td>LED 3000K, CRI 97</td>
<td>0.160</td>
</tr>
<tr>
<td>LED 4000K, CRI 82</td>
<td>0.190</td>
</tr>
<tr>
<td>LED 4000K, CRI 92</td>
<td>0.198</td>
</tr>
</tbody>
</table>

Evaluation of color rendering according to TM-30

As an alternative to the Ra /CRI process, TM-30 defines the values Rf und Rg. These reference the similarity to a test light source and reference spectrum with regard to color fidelity (Rf - fidelity) and saturation (Rg - gamut). The reference light source is a “black body” or standard CIE-D light source. Rf is comparable with Ra, and the calculation method and maximum value of 100 are identical. By considering 99 instead of 8 reference colors, lower values often result with Rf compared to Ra /CRI. Rg specifies the color range, i.e. the size of the displayable color space. A light source with precise, true-to-nature color rendering has an Rg value of 100; both smaller and larger values are possible.

Damage factor

The relative damage factor is used to assess suitable light sources for conservation requirements such as in museums. It specifies the ratio of the damaging radiation intensity and the illuminance. Warm white LED lighting is even better suited for delicate objects than low-voltage halogen lamps with or without UV filter.

If the determined curve is located outside the circumference valid for the reference, colors in this area are rendered with oversaturation. If the curve is inside, the corresponding colors are rendered with a lower saturation.
LEDs in ERCO luminaires

ERCO LED 2700K
\[ R_f = 91 \]
\[ R_g = 100 \]
\[ R_a / CRI = 92 \]

ERCO LED 3000K
\[ R_f = 90 \]
\[ R_g = 100 \]
\[ R_a / CRI = 92 \]

ERCO LED 3500K
\[ R_f = 90 \]
\[ R_g = 98 \]
\[ R_a / CRI = 92 \]

ERCO LED 4000K
\[ R_f = 85 \]
\[ R_g = 97 \]
\[ R_a / CRI = 82 \]

ERCO Program 2020
### Functional life

LEDs have a very low failure rate, meaning they produce light over an exceptionally long period of time. The failure rate of the High-power LEDs used by ERCO is on average less than 0.1% up to 50,000 hours. In contrast to conventional lamps, which have a failure rate of 50%, the term “functional life” therefore is not very useful for planning purposes.

### Lumen maintenance

As with other light sources, the luminous flux of LEDs decreases over time so that from a certain point the illuminance originally required is no longer achieved. The reliability and efficiency of LEDs depend largely on its operating conditions. ERCO luminaires therefore are thermally designed to remain below the critical temperature range when properly operated to ensure maximum luminous flux over a long life.

Since total failure of an LED is very rare, LEDs are more accurately defined by using the lumen maintenance factor over a specific period of time. As a blanket value it is common practice to indicate the time after which the luminous flux for a specific percentage of all LEDs has reduced to 70%, 80% or 90% of their original luminous flux.

The standard specification of LEDs currently used in the market is L70 50,000h, i.e. after 50,000 hours, only 50% of the LEDs used still achieve 70% of their original luminous flux.

### L and B values

The L value represents the percentage of original luminous flux that the LED continues to achieve after the specified number of operating hours.

#### Mid-power LEDs

The Mid-power LEDs used by ERCO are specified at up to 50,000h with L90 and a failure rate of 0.1%.

#### High-power LEDs

ERCO uses High-power LEDs with the specification L90/B10 50,000h, meaning 90% LEDs still achieve 90% of their original luminous flux in up to 50,000 hours. The residual 10% of the LEDs still have up to 89% of their original luminous flux with a failure rate rate of 0.1%.

### Current information about the LEDs can be found on the data sheets of the respective articles.

### Forward voltage

Due to the manufacturing process, LEDs of the same type vary in terms of their forward voltage. This is the voltage drop across an LED, in other words, the volts it "consumes". Together with the constant operating current, forward voltage defines the power consumption of an LED luminaire using the simple formula of voltage (volt) x current (ampere) = power (watt). Therefore, if the forward voltage of LEDs were to fluctuate, the energy requirement of the luminaires, though otherwise similar, would also vary. Consistent energy consumption across luminaires of the same design can only be guaranteed if the LEDs used in them are selected for their forward voltage. ERCO is one of the few luminaire manufacturers that specifies consistency in forward voltage as part of its selection criteria. The goal is to give user assurance that the energy requirement specified for the luminaires used relates to actual figures.

### Version

LEDs and control gear are continually advanced. In order to clearly identify which LEDs are used in a product, ERCO specifies a version number alongside the article number, which is found on each luminaire. This number applies to a luminaire range and bears no reference to the LED generation, i.e. luminaires from different product ranges may use the same LED generation despite the difference in version number. The version number is important for the user to know and must be stated particularly when ordering luminaires.

### Current LED

![Current LED](image)

Comparing the reduction in luminous flux of a standard LED with an ERCO High-power LED after 50,000 operating hours illustrates the superior efficiency of ERCO LEDs.

### Forward voltage

![Forward voltage](image)

75021.023 | White (RAL9002)
2W 210lm 3000K warm white
Trailing edge dimmable
Spherolit lens, narrow spot
Photometric data from ERCO

Light distribution
The spatial distribution of lamp lumens results in a 3-dimensional body of light intensity distribution. A longitudinal or transverse section through this body results in a 2-dimensional light intensity distribution curve that indicates the light intensity of a luminaire for all angles of this plane. Usually, this is displayed in a polar coordinate diagram from which the main direction of the beam is recognizable, e.g. direct or indirect emission. The unit of light intensity is Candela (cd). The maximum light intensity specified in ERCO light intensity distribution curves is always an absolute value for a luminaire. Conversion with the luminaire luminous flux is not required. The light intensity distribution curve allows lighting designers to determine the fundamental suitability of a luminaire for a specific task. The illuminance at a specific angle to the luminaire is determined by dividing the light intensity of the luminaire in this direction by the square of the distance between the luminaire and target surface.

Axially symmetrical light sources need two curves, displaying the two main planes C0 – C180 (at right angles to the lamp position) and C90 – C270 (parallel to the lamp).

Asymmetrical distributions, mostly of wallwashers, are usually shown in the main curve C0 – C180.

Isolux curves represent the illuminance distribution in a defined situation. The illuminance values are shown without regard to any maintained values. The letter h refers to the height of the front lens above the illuminated surface. For wall-mounted luminaires used for floor washlighting this is the mounting height, and for ceiling washlights, the height between luminaire and ceiling.
**ERCO planning data**

**Planning data for spotlights, uplights and projectors**

Illuminance and light beam diameter

The tables usually shown next to the light intensity distribution comprise the illuminance values $E \ (fc)$ and the light beam diameter $D \ (ft)$ resulting from the half peak value against the distance or height $h \ (ft)$. Illuminance values relate to the axial intensity.

Example of a rotationally symmetrical spotlight.
The illuminance values are given in increments of 3ft.

<table>
<thead>
<tr>
<th>$h \ (ft)$</th>
<th>$E \ (fc)$</th>
<th>$D \ (d')$</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>244</td>
<td>3'11&quot;</td>
</tr>
<tr>
<td>6</td>
<td>611</td>
<td>3'11&quot;</td>
</tr>
<tr>
<td>9</td>
<td>271</td>
<td>5'10&quot;</td>
</tr>
<tr>
<td>12</td>
<td>151</td>
<td>7'10&quot;</td>
</tr>
<tr>
<td>15</td>
<td>101</td>
<td>9'9&quot;</td>
</tr>
</tbody>
</table>

Example of an axially symmetrical projector.
Where illuminances are high, the values are given in increments of 6ft.
The first column of $D \ (ft)$ shows the illuminance values and the beam angle of the plane $C_0-C_{180}$, the second column contains the values of the plane $C_{90}-C_{270}$.

<table>
<thead>
<tr>
<th>$h \ (ft)$</th>
<th>$E \ (fc)$</th>
<th>$D \ (d')$</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1628</td>
<td>10'1&quot;</td>
</tr>
<tr>
<td>12</td>
<td>407</td>
<td>1'10&quot;</td>
</tr>
<tr>
<td>18</td>
<td>181</td>
<td>2'10&quot;</td>
</tr>
<tr>
<td>24</td>
<td>102</td>
<td>3'4&quot;</td>
</tr>
<tr>
<td>30</td>
<td>65</td>
<td>5'3&quot;</td>
</tr>
</tbody>
</table>

Example of an uplight with indirect emission.
The table data for in-ground luminaires shows the beam direction values, i.e. from bottom to top.

<table>
<thead>
<tr>
<th>$h \ (ft)$</th>
<th>$E \ (fc)$</th>
<th>$D \ (d')$</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>11</td>
<td>13'12&quot;</td>
</tr>
<tr>
<td>12</td>
<td>17</td>
<td>11'2&quot;</td>
</tr>
<tr>
<td>9</td>
<td>30</td>
<td>8'3&quot;</td>
</tr>
<tr>
<td>6</td>
<td>68</td>
<td>5'7&quot;</td>
</tr>
<tr>
<td>3</td>
<td>270</td>
<td>2'10&quot;</td>
</tr>
</tbody>
</table>
ERCO planning data

Planning data for wallwashers

Tables with illuminance values of wallwashers are based on calculations with a reasonable offset from the wall and appropriate luminaire spacing, and help decide on the right wallwashers and their optimal positioning. Here, too, the values must, in practice, be converted using the maintenance factors determined separately. The tables are based on a calculation with at least five luminaires without consideration of the indirect components and peripheral zones.

To evaluate illuminance distribution we recommend consulting the detailed tables in the product data sheets. To consider the actual spatial situation such as room proportions and surface characteristics it makes sense to carry out an individual project-related calculation using the photometric data. This applies in particular to the double wallwashers.

All illuminance values are new values. In practice, these must be converted with the separately determined maintenance factors. With luminaires designed for wide axis distances the light scallops on the side walls should be checked in a calculation.

The wallwasher tables are calculated with a maintenance factor (MF) of 1.00.

Specifications in the catalog:
Mean illuminances En (wall)
Specifications:
Angle of tilt 35° (only with tiltable luminaires)

<table>
<thead>
<tr>
<th>Wall height (ft)</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset from wall (ft)</td>
<td>4 5 5</td>
</tr>
<tr>
<td>Luminaire spacing (ft)</td>
<td>4 5 6</td>
</tr>
<tr>
<td>Illuminance (fc)</td>
<td>16 13 11 9</td>
</tr>
</tbody>
</table>

Specifications in the product data sheet:
Wall height 20 ft
Illuminances (fc)

<table>
<thead>
<tr>
<th>Offset from wall (ft)</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminaire spacing (ft)</td>
<td>7</td>
</tr>
<tr>
<td>Distance from ceiling (ft)</td>
<td>7</td>
</tr>
<tr>
<td>below</td>
<td>between</td>
</tr>
<tr>
<td>luminaire</td>
<td>luminaires</td>
</tr>
<tr>
<td>2.000</td>
<td>4</td>
</tr>
<tr>
<td>4.000</td>
<td>9</td>
</tr>
<tr>
<td>6.000</td>
<td>14</td>
</tr>
<tr>
<td>8.000</td>
<td>15</td>
</tr>
<tr>
<td>10.000</td>
<td>14</td>
</tr>
<tr>
<td>12.000</td>
<td>12</td>
</tr>
<tr>
<td>14.000</td>
<td>10</td>
</tr>
<tr>
<td>16.000</td>
<td>8</td>
</tr>
<tr>
<td>18.000</td>
<td>7</td>
</tr>
</tbody>
</table>

Correction table

To determine the illuminance, the maintenance factor must be taken into account along with the geometry of the room to be planned and its reflection capacity. To do so, the correction factor f is taken from the correction table. The correction table itself can be found on the product data sheet. The correction table also provides the required factors to be applied for room data other than k = 2.5 and reflectances other than 0.7/0.5/0.2.

<table>
<thead>
<tr>
<th>Correction table</th>
<th>Ceiling</th>
<th>Wall</th>
<th>Floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>k0.6</td>
<td>90</td>
<td>73</td>
<td>67</td>
</tr>
<tr>
<td>k1.0</td>
<td>106</td>
<td>85</td>
<td>79</td>
</tr>
<tr>
<td>k1.5</td>
<td>118</td>
<td>94</td>
<td>88</td>
</tr>
<tr>
<td>k2.5</td>
<td>128</td>
<td>100</td>
<td>96</td>
</tr>
<tr>
<td>k3.0</td>
<td>131</td>
<td>102</td>
<td>99</td>
</tr>
</tbody>
</table>
ERCO planning data

Maintained value of illuminance

The illuminance values recommended in the relevant standards are "maintained values of illuminance". These must not at any time be lower than indicated. The new value for the illuminance of an installation is calculated from the maintained value of illuminance and the maintenance factor.

\[ E_n = \frac{E_m}{MF} \]

Where:
- \( E_n \) = New value of a lighting installation
- \( E_m \) = Maintained value of illuminance
- \( MF \) = Maintenance Factor

New value = Maintained value / Maintenance Factor

According to CIE 97, one of the components required in lighting design is a maintenance plan specifying the cleaning frequency of the luminaires and the room and the lamp replacement.

The photometric planning data from ERCO is published on the basis of the "new value of illuminance". The maintained value of illuminance can be determined by way of a maintenance factor.

The maintenance factor is calculated on the basis of separate tables or in computer calculations such as DIALux from version 4.0.

The maintenance factor is calculated using the following formula:

\[ MF = LMF \times RSMF \times LLMF \times LSF \]

LMF
Luminaire Maintenance Factor

The luminaire maintenance factor LMF takes into account the reduction of luminous flux due to the soiling of the luminaire. It signifies the ratio of a luminaire's light output ratios before and after cleaning. The LMF depends on the version of the luminaire and the related possibility of soiling. The LMF classification is indicated next to the product. The LMF values ensue from the attached tables. At this point, the optimal cleaning frequency must be defined for the maintenance plan.

Classification of environmental conditions
- P (very clean room) pure
- C (clean room) clean
- N (average conditions) normal
- D (dirty room) dirty

Classification
Definition
Classification D: Closed reflectors
Classification E: Dustproof luminaires
Classification F: Luminaires with indirect emission

Cleaning frequency (a)

<table>
<thead>
<tr>
<th>Environmental conditions</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>D Closed reflectors</td>
<td>0.94 0.88 0.82 0.77</td>
<td>0.91 0.83 0.77 0.71</td>
<td>0.89 0.79 0.73 0.65</td>
</tr>
<tr>
<td>E Dustproof luminaires</td>
<td>0.96 0.94 0.90 0.86</td>
<td>0.93 0.91 0.86 0.81</td>
<td>0.92 0.90 0.84 0.79</td>
</tr>
<tr>
<td>F Luminaires, indirect emission</td>
<td>0.93 0.86 0.81 0.74</td>
<td>0.88 0.77 0.66 0.57</td>
<td>0.85 0.70 0.55 0.45</td>
</tr>
</tbody>
</table>

The classification of ERCO LED luminaires in D, E or F classes is found in the product data sheets.
The room surface maintenance factor RSMF takes into account the reduction of luminous flux due to the soiling of the room surfaces. It signifies the ratio of the room surface reflectances before and after cleaning. The RSMF depends on the degree of soiling of the room or the ambient conditions of a room and the specified cleaning frequency. Further influencing factors are the size of the room and the type of lighting (direct to indirect emission).

With direct distribution lighting a differentiation can be made between general and accent lighting. Reflection only plays a subordinate role with accent lighting and can be neglected. The table also provides 4 classifications for room soiling:

- P (very clean room) pure
- C (clean room) clean
- N (average conditions) normal
- D (dirty room) dirty

### ERCO planning data

**RSMF**

**Room Surface Maintenance Factor**

The room surface maintenance factor RSMF takes into account the reduction of luminous flux due to the soiling of the room surfaces. It signifies the ratio of the room surface reflectances before and after cleaning. The RSMF depends on the degree of soiling of the room or the ambient conditions of a room and the specified cleaning frequency. Further influencing factors are the size of the room and the type of lighting (direct to indirect emission).

**LLMF**

**Lamp Lumen Maintenance Factor**

The lamp lumen maintenance factor LLMF takes into account the reduction of luminous flux due to the ageing of the lamp. It signifies the ratio of the lamp lumens at a specific time and the new value. The current data provided by the lamp manufacturers must be taken into account here.

The reduction of LED luminous flux (degradation) is determined using the LM-80/TM-21 method. Under LM-80, the degradation of the LED is measured for at least 9,000 hours, whereas the TM-21 process is used to extrapolate the measurement.

The degradation of an LED depends largely on the ambient temperature at which it is operated. Measurements are taken at 25°C operating temperature or ambient temperature of the luminaire.

### Calculation example for a period of 20,000 operating hours:

A spotlight with classification E is used in a very clean room with annual cleaning:

\[ MF = LMF \cdot RSMF \cdot LLMF \cdot LSF \]

MF = 0.96 \cdot 0.99 \cdot 0.96 \cdot 1

MF = 0.91
General Information

This catalog supersedes all previous issues. We reserve the right to make technical and formal alterations to improve our products or to meet modified requirements. Current data will be supplied on request.

The technical data in the catalog refer to the operation of the luminaire with an operating voltage of 120V. In individual cases, the properties of the luminaire may change if operated at 277V. Please refer to the product specification sheets for details.


Our products are protected by patent and trademark rights.

LED modules are part of the luminaire.

All dimensions are in feet and inches, and the metric equivalent.

Voltages given in this catalog refer to a mains frequency of 60Hz.

All products must be installed to conform with the NEC and all local electrical building codes it practices. The installation, commissioning, and maintenance of ERCO products should only be carried out by authorized and qualified personnel in accordance with the instructions supplied with the products and all applicable standards, laws, and regulations applicable to the respective area of application. The responsibility for correct installation lies solely with the user.

ERCO does not assume any liability and shall not be responsible for any damage resulting from improper use, handling, or installation of the products.

It is expressly understood that ERCO makes no representations or warranties, express or implied, with respect to the products.

Specifically, ERCO makes no representations or warranties as to the application or use of the products for a particular purpose. Installation or service by a non-licensed electrical contractor, repairs or alterations outside of ERCO’s factory, abuse, negligence or accident as well as any other improper installation, application or usage contrary to ERCO’s printed instructions, if any, of any product or parts of products voids any and all warranties, express or implied.

The standard finish of our products is specified in the product description. The products can also be finished in the following colors: white RAL 9002, silver RAL 9006 and black RAL 9011.

Prices and delivery times for any other RAL or BS colors are available on request.

ERCO luminaires are designed, manufactured and tested to the applicable standards and technical regulations, e.g. UL 1598 and/or UL 1574. Technical testing is conducted at an ambient temperature of 25°C.

The luminous flux values and other photometric data also relate to an ambient temperature of 25°C. At other temperatures, deviations from the values stated in the catalog are possible.

The photometric data are based on the maximum wattages allowed and silver reflectors.

All products distributed in the United States are cULus or cCSAus approved and listed.

Information on High-power LEDs

Due to the production process of LEDs, specified typical LED parameters show statistical values only. There may be variations in the range typical for LEDs. Functional life, however, largely depends on the ambient temperatures. Therefore, the luminaires should not be installed near other sources of heat such as heating pipes, etc. Furthermore, these luminaires should not be operated when exposed to direct sunlight.

As a result of innovative heat management, ERCO luminaires with high-power LEDs reach the rated life specified by the manufacturers.

Corrosion protection for outdoor luminaires

1. Instructions on mounting the luminaires are included with each product. Furthermore, the national regulations on installation and accident prevention must be observed.
2. When mounting and maintaining the luminaires, take particular care not to damage the powder coating.
3. The luminaires must be cleaned regularly. The required interval and method depend on the site, situation of mounting and environmental conditions.
4. All recessed in-ground luminaires must be installed with a suitable drainage system in place, e.g. a gravel bed. Please ensure that the installation of the luminaries allows water to run off their surface.

Symbols and abbreviations

Underwriters Laboratories
Canadian Standards Association
Federal Communications Commission
Class II luminaires
Dry Location
Damp Location
Wet Location
Indoor
Outdoor
Please observe the operating instructions!

ERCO Quality Management

The ERCO Quality Management System has been certified in accordance with DIN EN ISO 9001:2008 and DIN EN ISO 50001:2011. The certified system includes: design/development, production, assembly, sales and service. ERCO sales organizations worldwide are always included in the management system and are regularly audited by ERCO auditors.

DE AEOF 102810

ERCO GmbH was awarded the AEOF (Authorised Economic Operator Full) certificate on August 27, 2010. This certification distinguishes ERCO GmbH as a particularly reliable and trustworthy partner in international trade. It governs the safety and efficiency of the supply chain through to the consumer.

The guarantee terms pertaining to the voluntary manufacturer’s guarantee of 5 (five) years given by ERCO GmbH on ERCO products shall apply in addition to our General Terms and Conditions. Full details of these current guarantee terms are available on request by e-mailing guarantee@erco.com
ERCO addresses

Europe

Belgium
ERCO Lighting Bvba/sprl
Leuvensesteenweg 369 bus 7
1932 Zaventem
Belgium
Tel.: +32 2 340 7220
Fax: +32 2 347 3882
info.be@erco.com

Denmark
ERCO Lighting AB
Showroom Copenhagen
Vesterbrogade 136 C, st. 1620 København V
Denmark
Tel.: +45 33 21 80 60
info.dk@erco.com

Germany
ERCO Leuchten GmbH
Postfach 2460
58505 Lüdenscheid
Niederlassung Lüdenscheid
Tel.: +49 2351 551 100
Fax: +49 2351 551 555
info.de@erco.com

ERCO Leuchten GmbH
Niederlassung Rhein Ruhr
Öskar-Jäger-Straße 173
50825 Köln
Germany
Tel.: +49 221 5309 780
Fax: +49 221 5309 8767
info.rhein-ruhr@erco.com

ERCO Leuchten GmbH
Niederlassung Frankfurt
Zum Gügelhof 1
60594 Frankfurt
Germany
Tel.: +49 69 959 324 60
Fax: +49 69 959 324 615
info.frankfurt@erco.com

ERCO Leuchten GmbH
Niederlassung München
Mauerkircherstraße 8
81679 München
Germany
Tel.: +49 89 120 099 40
Fax: +49 89 120 099 499
info.muenchen@erco.com

ERCO Leuchten GmbH
Niederlassung Stuttgart
Rotebühlstraße 87a
70178 Stuttgart
Germany
Tel.: +49 711 933 475 90
Fax: +49 711 933 475 99
info.stuttgart@erco.com

Luxembourg
see Germany

Finland
ERCO Lighting AB
Malmin ratti 17
00700 Helsinki
Finland
Tel.: +358 400 718 407
Fax: +358 400 391 616
info.fi@erco.com

Estonia
see Finland

France
ERCO Lumières Éurp
des St-Péres 75007 Paris
France
Groupe Paris – Ille de France
Tel.: +33 1 44 77 84 71
Fax: +33 1 47 03 96 68

Groupe Régions
Tel.: +33 1 44 77 84 70
Fax: +33 1 47 03 96 68

Groupe Architecture Commerciale
Tel.: +33 1 44 77 84 73
Fax: +33 1 47 03 96 68
info.fr@erco.com

Great Britain
ERCO Lighting Ltd.
38 Dover Street
London W1S 4NL
Great Britain
Tel.: +44 20 7344 4900
Fax: +44 20 7409 1530
info.uk@erco.com

Ireland
see Great Britain

Italy
ERCO Illuminazione S.r.l.
c/o Edificio Sedicì
Viale Sarca 336 F
20126 Milano
Italy
Tel.: +39 02 365 872 84
Fax: +39 02 643 7831
info.it@erco.com

Netherlands
ERCO Lighting B.V.
Gooismeer 13
1411 DE Naarden
Netherlands
Tel.: +31 35 694 6383
Fax: +31 35 694 6383
info.nl@erco.com

Norway
ERCO Lighting AS
Elveveien 85
1366 Lyseker
Norway
Tel.: +47 24 14 82 00
info.no@erco.com

Spain
ERCO Lighting GmbH
Przedstawicielstwo w Polsce
ul. Biały Kamień 7
02-593 Warszawa
Poland
Tel.: +48 22 898 7845
Fax: +48 22 898 2399
info.pl@erco.com

Latvia
see Poland

Lithuania
see Poland

Poland
ERCO Lighting GmbH
Przedstawicielstwo w Polsce
ul. Biały Kamień 7
02-593 Warszawa
Poland
Tel.: +48 22 898 7845
Fax: +48 22 898 2399
info.pl@erco.com

Russia
ERCO Lighting GmbH
Representative Office
Varshavskoe shosse, 1, bld. 1-2
117105 Moskva
Russian Federation
Tel.: +7 495 988 86 89
Fax: +7 495 988 86 89
info.ru@erco.com

Armenia
see Russia

Belarus
see Russia

Moldova
see Russia

Ukraine
see Russia

Uzbekistan
see Russia

Sweden
ERCO Lighting AB
Ljusslingan 1
120 31 Stockholm
Sweden
Tel.: +46 8 54 50 44 30
Fax: +46 8 54 50 44 30
info.se@erco.com

Iceland
see Sweden

Switzerland
ERCO Lighting AG
Trottenstrasse 7
8037 Zürich
Switzerland
Tel.: +41 44 215 28 10
Fax: +41 44 215 28 19
info.ch@erco.com

Austria
ERCO Lighting GmbH
Engestrass 151/Loft e6
1020 Wien
Austria
Tel.: +43 1 788 84 94 0
Fax: +43 1 788 84 95
info.at@erco.com

Albania
see Austria

Bosnia and Herzegovina
see Austria

Cyprus
see Austria

Greece
see Austria

Israel
see Austria

Montenegro
see Austria

Slovenia
see Austria

Turkey
ERCO Lighting GmbH
Istanbul İrtibat Barosu
Kozyatagi Mah. Sari Kanarya Sok. Byofis Plza No.14 Kat.7
34742 Kadıköy - İstanbul
Turkey
Tel.: +90 216 906 03 23
info.tr@erco.com

Azerbaijan
see Turkey

Georgia
see Turkey

Kazakhstan
see Turkey

Kyrgyzstan
see Turkey

Turkmenistan
see Turkey

Hungary
ERCO Lighting GmbH
Kereskedelmi Képviselet
Íranyi u. 1. mfsz. 2.
1056 Budapest
Hungary
Tel.: +36 1 266 0006
Fax: +36 1 266 0006
info.hu@erco.com

Bulgaria
see Turkey

Croatia
see Turkey

Romania
see Turkey

Serbia
see Hungary

Czech Republic
ERCO Lighting GmbH
Organizační složka Praha
Jana Masaryka 3/456
120 00 Praha 2
Czech Republic
Tel.: +420 2 225 111 16
info.cz@erco.com

Slovakia
see Czech Republic

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Africa

Morocco
ERCO Lumières Maroc
Representative Office
174 bd Zerktouni
20100 Casablanca
Morocco
Mob.: +212 642 04 93 45
info.fr@erco.com

The Middle East

Dubai
ERCO Lighting Pte. Ltd.
Representative Office
Ground Floor, Showroom 3
Spectrum Building
Oud Metha, Dubai
P.O. Box 62221
United Arab Emirates
Tel.: +971 4 388 5451
Fax: +971 4 388 5452
info.ae@erco.com

Abu Dhabi
Bahrain
Egypt
Jordan
Lebanon
Oman
Saudi-Arabia
United Arab Emirates
see Dubai

India
ERCO Lighting Pte. Ltd.
Representative Office,
1906, Lohtha Supremus,
Opp. MTNL Office,
Saki Vihar road, Powai
Andheri (E), Mumbai-400072,
India.
Tel.: +91 22 40224458
info.in@erco.com

Qatar
ERCO Lighting Pte. Ltd.
Representative Office
P.O. Box 22059
Doha
Qatar
Tel.: +974 4441 1290
Fax: +974 4441 1240
info.ae@erco.com

SouthEast Asia

Singapore
ERCO Lighting Pte. Ltd.
93 Havelock Road
#03-532
Singapore 160093
Singapore
Tel.: +65 6227 3768
Fax: +65 6227 8768
info.sg@erco.com

Bangladesh
Brunei
Cambodia
Indonesia
Laos
Malaysia
Myanmar
Philippines
Sri Lanka
Thailand
Vietnam
see Singapore

East Asia

China
ERCO Lighting Pte. Ltd.
Representative Office
Rm 102, No 89 Building
800 SHOW
No. 800 Changde Road
JingAn District
Shanghai 200040
P.R. China
Tel.: +86 21 5030 5879
Fax: +86 21 5030 5879
info.cn@erco.com

ERCO Lighting Pte. Ltd.
Representative Office
Rm401, No. 21, Dongsishitiao
Dongcheng District
Beijing 100007
P.R. China
Tel.: +86 10 6408 7699
info.cn@erco.com

Hong Kong
ERCO Lighting Pte. Ltd.
Representative Office
21/F, C Wisdom Centre
35 – 37 Hollywood Road, Central
Hong Kong
P.R. China
Tel.: +852 3165 8780
Fax: +852 3165 8790
info.hk@erco.com

Taiwan
Macao
see Hong Kong

Japan
Light and Licht Ltd.
2-5-10 Shiba, Minato-ku
Tokyo 105-0014
Japan
Tel.: +81 3 5418 8230
Fax: +81 3 5418 8238
info.jp@lightandlicht.com

Korea
ERCO Lighting Pte. Ltd.
Representative Office
5th fl, Woorim Bldg. 797-24
Bangbae-dong, Seocho-gu
Seoul 06584
Korea
Tel.: +82 2 596 3366
Fax: +82 2 596 3354
info.kr@erco.com

North America

USA
ERCO Lighting Inc.
160 Raritan Center Parkway
Suite 10
Edison, NJ 08837
USA
Tel.: +1 732 225 8856
Fax: +1 732 225 8857
info.us@erco.com

ERCO Lighting Inc.
Los Angeles Showroom
8651 Hayden Place
Culver City, CA 90232
USA
info.us@erco.com

Canada
Mexico
Puerto Rico
see USA

Argentina
ERCO Iluminación, S.A.
Oficina de Representación
Basavilbaso 1350 2º piso, of. 201
C1006BAD Buenos Aires
Argentina
Tel.: +54 11 5217 1813
info.ar@erco.com

Bolivia
Brazil
Chile
Colombia
Ecuador
Paraguay
Peru
Uruguay
Venezuela
see Argentina

South America

Australia
ERCO Lighting Pte. Ltd.
Representative Office Oceania
349 Pacific Highway
North Sydney NSW 2060
Australia
Tel.: +61 2 9004 8801
info.au@erco.com

New Zealand
see Australia

Oceania

ERCO Head Office
ERCO GmbH
Postfach 2460
58505 Lüdenscheid
Germany
Tel.: +49 2351 551 0
Fax: +49 2351 551 300
info@erco.com
www.erco.com

for our up-to-date address list, please visit www.erco.com

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