

# Light is the fourth dimension of architecture

Light lends architecture an additional design dimension. We aspire to use light to improve the effect of a room and to enhance the pleasant ambience. This approach considers both people and their surroundings. For this reason we develop lighting tools enabling designers and technical planners to create qualitative surroundings whilst carefully conserving resources.

The strategy we employ to link these sustainable planning approaches with innovative product technologies is Efficient Visual Comfort (EVC). To implement this challenging task, we consider light and architecture from the viewpoint of the user.

We are guided by five quality criteria:

1. High quality lighting design puts people with their specific tasks and individual needs in the centre.
2. Vertical lighting renders visible the surfaces important for our spatial perception.
3. Effective lighting technology enables various light distributions that only illuminate that which should be visible.
4. Intelligent control creates interfaces for interaction with the users.
5. Efficient LED technology encompasses the quality of the light and all opto-electronic components and thus ensures planning reliability.

We invite you to join us in exploring the fourth dimension of architecture.



# Each lighting task is individual. This is why we offer custom- designed lighting solutions for your project.

We are specialists in our field and each of our luminaires is a lighting tool for a specific application – whether this be a prestigious reception area, concentrated work or an impressive cultural experience.

The ERCO programme of products is therefore consistently designed for eight different applications: Work, Shop, Culture, Community, Contemplation, Living, Public and Hospitality.

Why? Because each of these areas is distinctive: in its architecture, in its lighting requirements, in cost-effectiveness and efficiency and in the planning, construction and maintenance processes.

We are familiar with these specific features and can advise you on technical, design and procedural issues.

Our aim is to translate your ideas into lighting concepts to develop perception-orientated, cost-effective lighting solutions together with you and with precisely the right lighting tools.

We would like to show you on the following pages how this specifically applies to the areas of Work, Culture, Shop and Community.



### Work

Lighting for offices and administrative buildings

Zoned lighting solutions for attractive, flexible office surroundings and a high degree of visual comfort at the place of work – perception-orientated and compliant with standards.

[www.erco.com/work](http://www.erco.com/work)



### Culture

Lighting for museums and galleries

Brilliant lighting for an impressive cultural experience and low-maintenance operation – with no compromises in terms of the visual experience and conservation of art

[www.erco.com/culture](http://www.erco.com/culture)

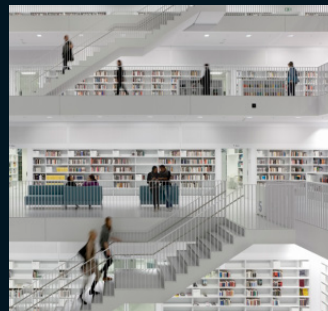


### Shop

Light for worlds of shopping

Flexible lighting with high system efficiency and seven interchangeable light distributions for diverse storytelling and perfect product displays.

[www.erco.com/shop](http://www.erco.com/shop)

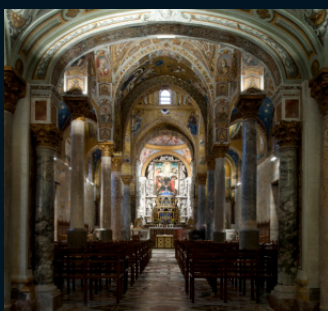


### Community

Light for public buildings

Durable LED technology, specifically developed for high rooms – for good orientation, an inviting atmosphere and a prestigious appearance in education, administration and transport.

[www.erco.com/community](http://www.erco.com/community)



### Contemplation

Light for sacred buildings

Light as a cross-cultural, inconspicuous medium for places of worship, providing contemplative atmospheres in all architectural dimensions – timeless and with low-maintenance.

[www.erco.com/contemplation](http://www.erco.com/contemplation)



### Living

Light for living quarters

Brilliant, warm LED light for indoor and outdoor spaces for eating, reading, working, sleeping, playing and thinking – high-quality optoelectronics in small designs, efficient and durable.

[www.erco.com/living](http://www.erco.com/living)

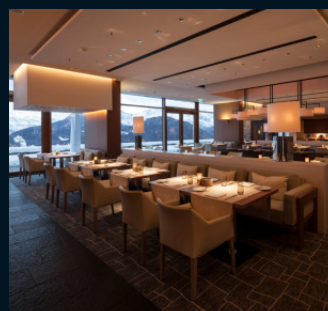


### Public

Light for outdoor facilities, bridges and memorials

Perception-orientated lighting solutions defining the nocturnal image of a town or city – robust, durable and with high visual comfort for both small and large lighting tasks.

[www.erco.com/public](http://www.erco.com/public)



### Hospitality

Light for hotels and restaurants

Scenographic light for prestigious receptions, festive dinners or relaxing wellness areas – with brilliance, precision and energy efficiency.

[www.erco.com/hospitality](http://www.erco.com/hospitality)



## Example: Work

Looking for light for an office or administrative building?



The debate concerning attractive, creatively stimulating and flexible offices looks toward the future, but traditional solutions continue to be accepted for illuminating such rooms. Light however in the world of work where people are focused on, is of essential importance: it contributes significantly to the quality of the room and supports concentration and dialogue.

So what do lighting concepts look like that correspond to our dynamic, digitally networked knowledge society? We believe that office lighting must do much more than simply satisfy functional requirements.

With this approach in mind, ERCO light for your work project means:

1. Zonal, standard-compliant architectural lighting for an attractive working environment.
2. Reliable, durable luminaires for safe planning and cost-efficient operation.
3. Vertical lighting and good glare control for high visual comfort at workstations.
4. An interdisciplinary lighting concept for a prestigious appearance from car parks to conference rooms.

Could this approach be of interest to you? Then simply contact us and become inspired at: [www.ercos.com/work](http://www.ercos.com/work)

Facades, entrances and reception areas offer companies, such as Abus Kransysteme in Gummersbach Germany, the first opportunity to position themselves as a brand via their office architecture. To create a prestigious, welcoming impression, luminaires must not create glare and a precision optic with high cut-off ensures this effect.





Outstanding visual comfort is created with vertical lighting and individual, task-related illumination at the workstation – for example by combining horizontal

general lighting with oval wide flood light distribution and task lights.



In addition to energy and maintenance costs, the initial investment into a lighting system is decisive for clients. For this reason and in addition to durable luminaires, wider than average luminaire spacing is a primary factor for cost-efficiency, as at Gebr. Heinemann in Hamburg.



Office lighting in the conflicting areas between high visual comfort and flexible lighting solutions. In the Engel & Völkers Market Centre in Madrid this is resolved by a track infrastructure and luminaires with downlight light

distribution – the furniture and lighting can be repositioned at will.

The following luminaires are suitable for this segment:



Compar recessed luminaire

p. 420



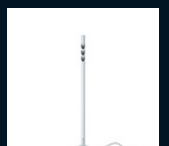
Compar pendant luminaire

p. 531



Skim downlight for track

p. 215



Lucy task light

p. 569



## Example: Culture

Looking for light for a museum or gallery?



Collecting, conserving, researching and exhibiting – these key-stones of museum work have until now been the hallmarks of work in public museums, galleries and private collections. Each of these individual spheres of work are now provided with suitable lighting thanks to the possibilities of high quality LED lighting, without needing to compromise in terms of visual experience and the conservation of art. Lighting design options in museums and galleries are, however, not merely restricted to the presentation of works of art. Light influences the perception of exhibition spaces as premium cultural brands – from the sculpture garden and exhibition to the shop and café.

ERCO takes this into account and offers you individual lighting solutions for your cultural project:

1. A flexible infrastructure of light for inspiring, perception-orientated displays of art.
2. Brilliant LED lighting with excellent colour rendering for maximum conservation requirements.
3. Precise, interchangeable light distributions for impressive cultural experiences.

Could this approach be of interest to you? Simply contact us and become inspired at: [www.erco.com/culture](http://www.erco.com/culture)

It is light that enables art to be experienced by visitors, as in the Museo de Bellas Artes de Valencia. Here for example, accent lighting lends particular significance to

important works in the collection. This is why ERCO spotlights provide designers with seven interchangeable light distributions featuring maximum precision.





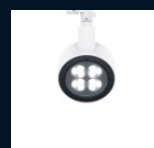
Light guides the view of the observer and is a part of the dramatic composition of the exhibition. Therefore, ERCO track is the basis for variable, flexible lighting design in the interiors of many galleries and museums. Outside, projectors provide the level of flexibility customarily

expected of spotlights in terms of installation and light distribution,, as in the Imperial Forums in Rome.

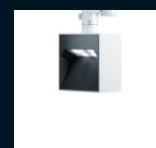


Colours are rendered authentically and subtly by a balanced spectrum and selection of suitable colour temperature, as at the Museum De Prinsenhof in Delft. For this reason ERCO provides identical quality of light and four light colours across its complete luminaire programme.

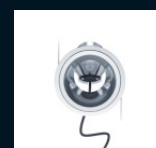
The following luminaires are suitable for this segment:



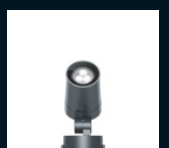
Parscan  
p. 98



Pantrac  
p. 211



Quintessence  
directional  
spotlight  
p. 337



Kona XS  
p. 624



## Example: Shop

Looking for light for a retail outlet, grocery business, shopping centre or vehicle showroom?



In this era of online shopping, credibility is the strength of over-the-counter retail trade. This is why fashion boutiques, furniture outlets, delicatessens, car showrooms and shopping malls seek direct contact with their customers and offer exquisite quality, individual service and original store concepts. Light is used in this process for authentic, attractive product displays to enhance the atmosphere in the store and thus emphasise the unique sensual quality of the shopping experience.

In this context ERCO retail lighting provides:

1. Accentuated lighting for diverse storytelling.
2. Lenses instead of reflectors for maximum precision and high illuminances with low connected loads.
3. Interchangeable light distributions for ever-new shop scenarios.

Could this approach be of interest to you? Simply contact us and become inspired at: [www.erco.com/shop](http://www.erco.com/shop).

Whereas specific accents conjure up drama and tension, wall-washing achieves a transparent, airy atmosphere, as experienced at Snobs in Turin. ERCO uses lens technology to project the light

of the LEDS precisely onto the target plane. In comparison to luminaires with reflectors this enables highly efficient lighting solutions without any light loss due to spill light.





Seven interchangeable light distributions enable visual rhythm in the store: Individual narrow accents support the focused, intensive examination of the merchandise. Tightly arranged rows of accents or linear light beams on the other hand guide visitors dynamically forwards.

A wide accent over a seating island in contrast is an invitation to take a break and promotes open exchange, as at the Otto Wulff Projektentwicklung showroom in Hamburg.

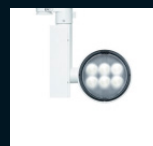


Retail architecture should communicate brand and product stories that consistently appeal to the emotions, as for instance in the Volvo showroom in Luleå. ERCO therefore

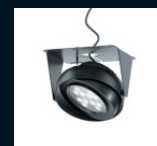
offers architectural lighting for stores with a consistent luminaire system comprising of recessed luminaires, luminaires for ceiling channels, track luminaires and pendant luminaires.



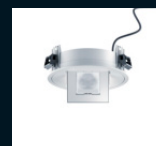
The following luminaires are suitable for this segment:



Optec  
p. 122



Gimbal for ceiling  
channels  
p. 279



Cantax recessed  
spotlight  
p. 296



Skim recessed  
luminaire  
p. 381

## Example: Community

Looking for light for transport buildings, an administration building, an educational facility or parliamentary building?

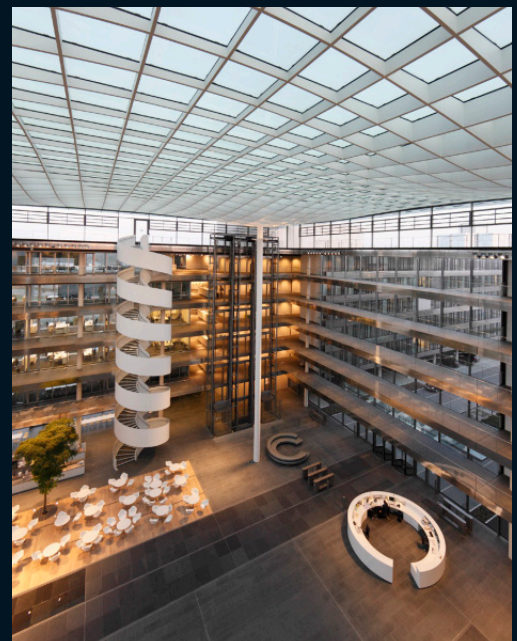


What is the common factor in airports, conference centres and university buildings in terms of lighting? Buildings in the public sector, in particular those of a prestigious nature, are used for a complex variety of purposes. Within these people must be guided quickly, safely and conveniently. This includes not only accessing the interior; good orientation is also indispensable in the outside vicinity, in the event rooms and in foyers, which are usually on various levels. The use of identical lighting strategies such as vertical lighting increases the level of acceptance with users. Only luminaires with a long service life are suitable for cost-efficient operation. For luminaires for public buildings, ERCO thus relies on the strategy of efficient visual comfort.

By this we mean:

1. Uniform quality of light and own lighting tools for high rooms and wallwashing, for prestigious architectural lighting.
2. Durable lighting technology via in-house developed control gear and LEDs with high lumen maintenance.
3. High visual comfort and wide distances between luminaires via specific light distributions.

Could this approach be of interest to you? Simply contact us and become inspired at: [www.erco.com/community](http://www.erco.com/community)



Wallwashing enhances the quality of rooms particularly in large buildings constructed for efficiency and functionality. ERCO offers special lighting tools for this purpose, as it does for general lighting from great heights.





Extreme room heights such as in the Philharmonie in Stettin or restricted mounting options must not in any way limit perception-oriented lighting with high visual comfort. This is why ERCO develops its products according to a product family philosophy.

ERCO luminaires can be randomly combined thanks to identical quality of light and comparable light distributions.



Public sector construction projects insist on sustainability. Economic LED lighting solutions feature long-life control gear and high lumen maintenance. This is where ERCO sets standards with its in-house developed optoelectronics, for example at Kingford Smith International Airport in Sydney.

The following luminaires are suitable for this segment:



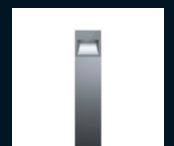
Quintessence  
double focus  
p. 359



Stella  
p. 143



Lightscan  
façade luminaire  
p. 713

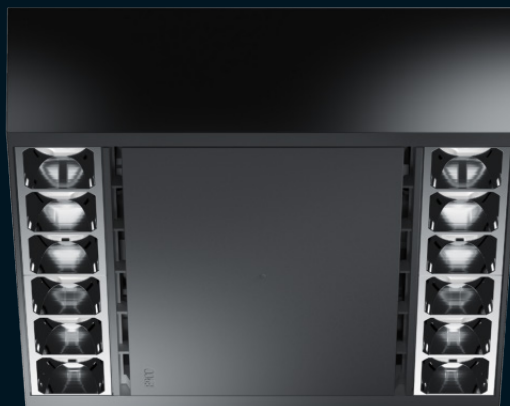


Lightmark  
bollard luminaire  
p. 781

## Innovations indoors and outdoors

ERCO has made it its goal to improve the impact and use of architecture via light. We are familiar with the complexity of modern construction projects and support you with lighting tools that can be flexibly deployed.

As a consequence, ERCO is focusing on systematically expanding its successful product families in 2018. Tried-and-tested lighting design principles and our requirement for high quality light are reflected in the complete product spectrum – for example in the expansion of the Compar range with surface-mounted and pendant luminaires, the Skim range with a downlight for track and the Gimbal ranges with luminaires for ceiling channels and further light colours.

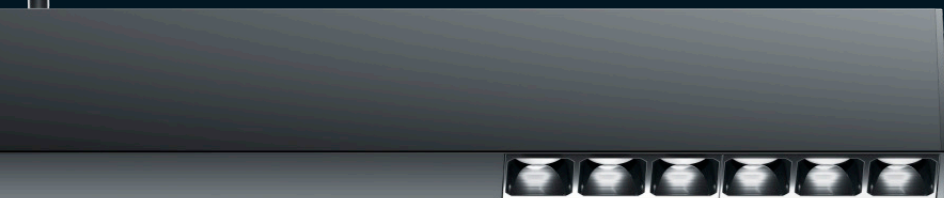


Compar Square surface-mounted luminaires

Page 26

Compar pendant luminaires

Seite 28



Compar recessed luminaires  
with 24 LEDs and up to  
9840lm at 76 watts

Page 24



## Compar product family

Compar expands with the innovations Compar Square surface-mounted luminaires and Compar pendant luminaires with indirect tunable white light are transformed into a comprehensive family of lighting tools for office applications, public buildings and cultural facilities. The Compar recessed luminaire range has also been supplemented with a new size. All three mounting versions use the same optical system consisting of collimator and anti-dazzle louvre, and with their compact light emission apertures represent high lumen-output luminaires for prestigious architectural projects.

## Quintessence double focus downlights and wallwashers

In addition to higher lumen-output downlights, the double focus family now includes a wallwasher for high rooms. The special optic enables highly uniform vertical illumination at short distances to the wall.

Page 38



## Quintessence recessed luminaires with 60° light distribution

The Quintessence product family with 90° light distribution has been expanded in the recessed luminaire category by a downlight with a 60° beam angle and 40° cut-off. This enables uniform general lighting with high visual comfort in higher rooms.

Page 39



#### Skim spotlight for track

With Skim the high visual comfort of downlights is now also available for track. Office spaces can be ideally equipped with the flexible track system. With Skim, employees benefit from pleasant, standard-compliant illumination with UGR<19.

Page 32



#### Stella high-performance spotlights for track

The new Stella product family offers high lumen packages of up to 9840lm for high rooms. With this system objects can be displayed to advantage over large distances or with a high level of daylight—ideal for atria in shopping centres, car dealerships, airports and foyers in opera houses. The narrow spot version is particularly effective in providing brilliant accentuation in room heights from 10m.

Page 34

4000K Ra≥80  
especially for work

3000K Ra≥90  
for universal use



#### Gimbal for ceiling channels

Because of its cardanic suspension and mounting bracket, Gimbal for ceiling channels is recommended particularly in stores where ceiling channels create an elegant ceiling appearance. The hinge of the Gimbal spotlight enables maximum flexibility for displaying the merchandise offered.

Page 36

4000K Ra≥90  
specifically for shops and art

2700K Ra≥90  
especially for hospitality

#### 4 ERCO LED spectra

To emphasise individual material colours and create special light atmospheres, the standard versions of all indoor luminaires have now been expanded by 2700K and 4000K versions, both with Ra≥90. For especially high energy efficiency, lighting designers can still specify the 4000K version with 138lm/W at Ra≥80.

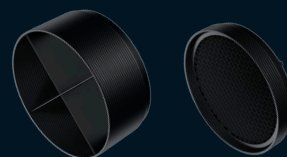
Page 30



#### Spotlights in all 3 colours

A further step towards integrated system logic has been taken in the spotlight, floodlight and wallwasher ranges. All products are now available as standard in the three ERCO colours of white, black and silver to blend perfectly into any style of architecture.

Page 40



#### Accessories for high visual comfort

New accessories are available for all current ERCO spotlights with round light emission to comply with particularly high glare protection—for example in museums, but also in shops and public buildings. The cross baffles and honeycomb anti-dazzle screens are attached without tools.

Page 40



#### Extra wide flood

With large buildings and short illumination distances, the floodlights now have extra wide flood light distribution in addition to wide flood and oval flood. This enables optimum lighting for large-sized lettering on facades and the ideal illumination of objects from short distances.

Page 41



Compar – a family full of performance

The successful Compar family expands with new sizes, surface-mounted and pendant luminaires.

Compar is the lighting tool for office applications, public buildings and cultural facilities. With five different light distributions the family offers precisely the right light for any lighting situation: as wide flood and oval wide flood for office workstation lighting in compliance with standards, as oval flood for linear general lighting in corridors or as extra wide flood for uniform general lighting with wide spacing between luminaires.

A surface-mounted luminaire has been added to the existing range of recessed luminaires with three wattages, plus a pendant luminaire in two sizes and with tunable white indirect component.



**Compar recessed luminaires**  
Five light distributions, four sizes and eight wattages – Compar is the ideal lighting tool for differentiated light from ceilings. The visible part of the luminaire is up to 20% less than a square downlight with the same luminous flux.

**Compar supplement with 24 LEDs**  
The new recessed luminaires with 24 LEDs round off the Compar system in the high lumen range: with up to 9840lm they are ideal for horizontal illumination in very high spaces. The extra wide flood light distribution also achieves particularly high illuminances with wide luminaire spacing in rooms of normal height – and with the innovative, linear Compar look.

Page 420

6–10W 630–1230lm	
12–19W 1260–2460lm	
24–38W 2520–4920lm	
48–76W 5400–9840lm	

LED	<b>Downlights</b> 48W – 76W 5400lm – 9840lm Wide flood, extra wide flood	<b>Downlights oval wide flood</b> 48W – 76W 5400lm – 9840lm Oval wide flood	<b>Downlights oval flood</b> 48W – 76W 5400lm – 9840lm Oval flood



### Compar Square surface-mounted luminaires

A low profile (62mm) and high luminous flux (up to 4920lm)  
– Compar surface-mounted luminaires make their impact with efficient lighting and a particularly compact con-

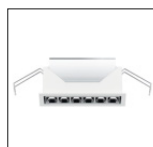
struction. As well as wide flood and oval wide flood for office workstations, the range offers two further light distributions for wide luminaire spacing with extra wide flood and oval flood.



### Compar pendant luminaires

Direct/indirect light, tunable white and two construction sizes  
– Compar pendant luminaires offer two light distributions for office workstations and counters with wide flood and oval

wide flood. The light colour of the indirect component can be modified by the user thanks to tunable white LED modules.



### Characteristics of the Compar family

		Compar recessed luminaires	Compar Square surface-mounted luminaires	Compar pendant luminaires
Application	General lighting	•	•	•
	Linear lighting	•	•	•
	Wallwashing	•		
	Office workstations	•	•	•
Lumen packages	< 1200lm	•		
	1200–3300lm	•	•	•
	> 3300lm	•	•	•
Light distribution	Wide flood	•	•	•
	Extra wide flood	•	•	•
	Oval flood	•	•	
	Oval wide flood	•	•	•
	Wallwash	•		
Light colours	2700K Ra≥90*	•	•	•
	3000K Ra≥90	•	•	•
	4000K Ra≥80	•	•	•
	4000K Ra≥90*	•	•	•
	Tuneable white (3000K – 6000K)			indirect only

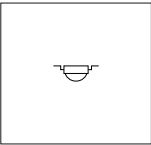
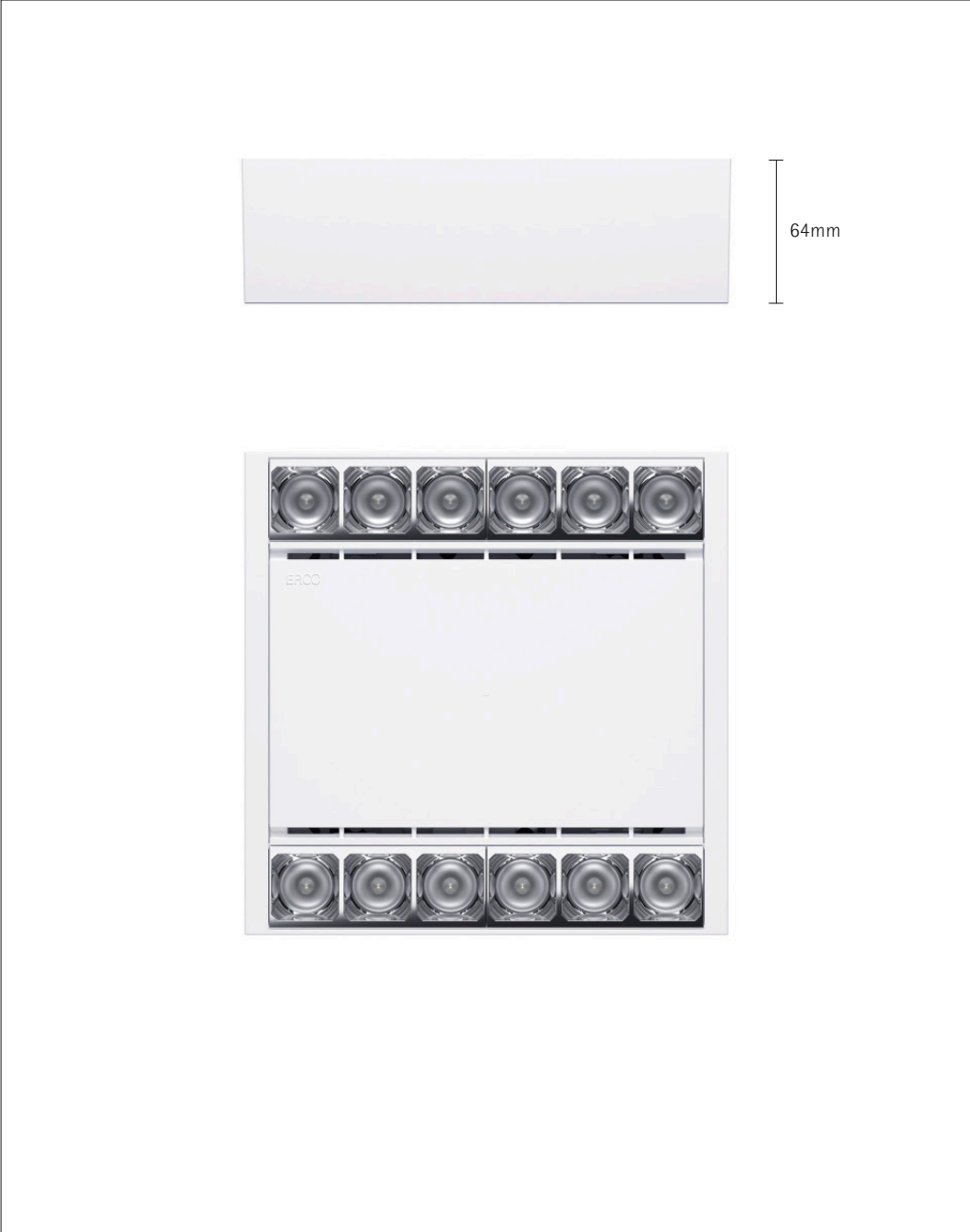
\* light colours on request

The simple path to perfect light

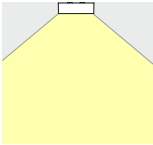
Compact surface-mounted luminaires with versatile, high quality lighting technology

High quality surface-mounted luminaires are the right choice in rooms with solid ceilings and also for simple modernisation purposes. For office spaces and many other applications in the management sector or public buildings, the Compar Square range offers surface-mounted luminaires that blend elegantly into the architecture thanks to their extremely slim and compact, square housings. As indicated by the name, the lighting technology is akin to the Compar recessed luminaires. Three lumen packages enable differentiated lighting concepts with sufficient luminous flux for high rooms as well. The highly efficient optics enable various light distributions with a uniform appearance of the luminaires. This enables the lighting to be matched to various uses and differing room conditions. Compar Square is optimised for office workplaces with high visual comfort and also improves levels of cost efficiency in circulation areas and foyers due to wide distances between luminaires.

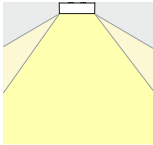
Page 492



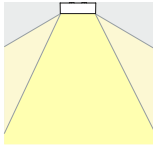
LED



Surface-mounted downlights  
12W – 38W  
1380lm – 4920lm  
Wide flood, extra wide flood



Surface-mounted downlights  
oval wide flood  
12W – 38W  
1380lm – 4920lm  
Oval wide flood



Surface-mounted downlights  
oval flood  
12W – 38W  
1380lm – 4920lm  
Oval flood



#### **Lens system with anti-dazzle louvre**

Collimators arranged in rows together with optional black or silver anti-dazzle louvres enable small light emission apertures with high visual comfort.

Planners have the choice of four downlight light distributions: wide flood, extra wide flood, oval flood and oval wide flood.



#### **Suitable for office work-stations**

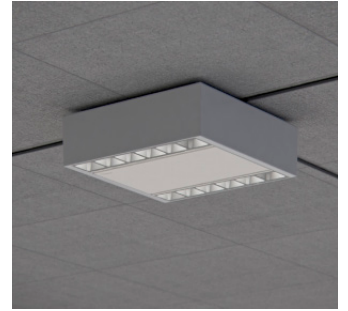
ERCO develops luminaires with good glare control and high visual comfort. UGR values can be used for achieving lighting purely oriented to applicable standards.

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.



#### **Small luminaire dimensions**

Small luminaires are discreet and place the focus on the light itself. Low installed heights are particularly useful in low rooms.



#### **Cable routing for surface-mounted installation**

Especially when mounting on slab ceilings, spacers allow the positioning of surface-mounted luminaires independently of existing cable outlets.



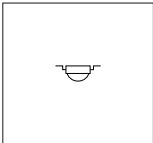
Compar Square surface-mounted luminaires enable offices, circulation areas and ancillary rooms in administration buildings to be illuminated in a variety of ways, with high efficiency and compliant with standards.

Linear, high-perfor-  
mance and extremely  
variable

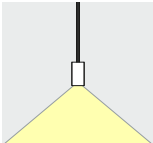
Versatile pendant luminaires  
with a linear profile and direct/  
indirect distribution

A highly purist appearance but with extremely flexible light effects – such is the concept of Compar pendant luminaires, which with their slender, minimalist luminaire body are ideal for architectural lighting and challenging office spaces. The dimensions of the suspended profile precisely match Hi-trac tracks. It combines direct and indirect light components: two Compar modules per luminaire are for direct lighting with high visual comfort. The innovative linear lighting technology offers various wattages and light distributions for glare-free workstation lighting in accordance with standards and per application. The integrated uplight emits diffuse light upwards. In addition to light colours from the ERCO system of luminaires, the luminaire is also available in a tunable white version: for atmospheric, dynamic ambient lighting or concepts integrating the rhythm of daylight into offices.

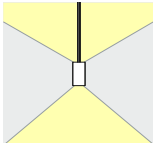
Page 531



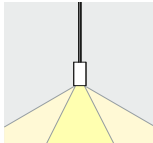
LED



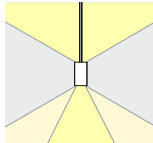
**Pendant  
downlights**  
24W – 38W  
2520lm – 4920lm  
Wide flood,  
Extra wide flood



**Pendant  
downlights**  
42W – 66W  
4410lm – 8610lm  
Wide flood,  
Extra wide flood

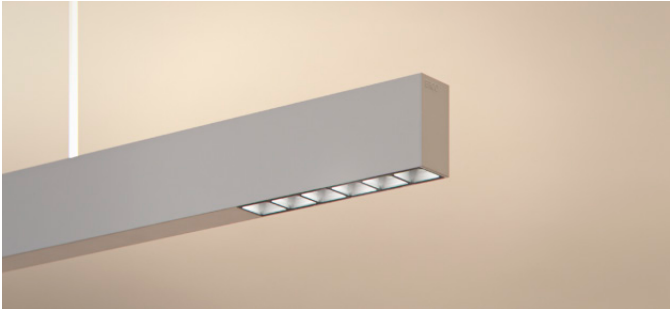


**Pendant  
downlights  
oval wide flood**  
24W – 38W  
2520lm – 4920lm  
Oval wide flood



**Pendant  
downlights  
oval wide flood**  
42W – 66W  
4410lm – 8610lm  
Oval wide flood





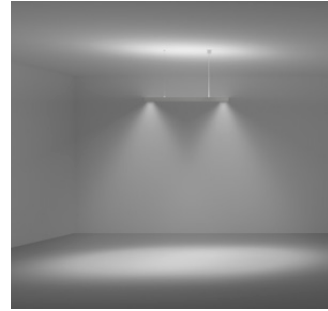
### Tuneable white: a diversity of light colours

Compar pendant luminaires with direct/indirect light emission offer numerous combinations of light colours. As well as a colour temperature of 2700K  $Ra \geq 90^*$ ,

3000K  $Ra \geq 90$ , 4000K  $Ra \geq 80$ , 4000K  $Ra \geq 90^*$  for the downwards-directed light, the light directed upwards is also possible with tuneable white LED modules (3000K – 6000K). The colour temperature can be individually set

to influence the light atmosphere in the room.

\* light colours on request



### Direct/indirect

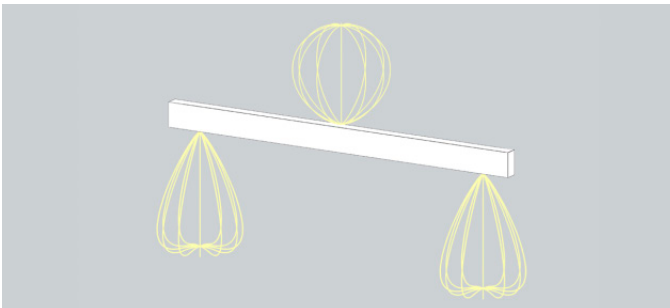
Compar pendant luminaires enable ceiling illumination near to office workstations or counters. The reflected light increases visual comfort and emphasises the position of the table within the room.



### Lens system with anti-dazzle louvre

Collimators arranged in rows together with either black or silver anti-dazzle louvres create small light emission apertures for the downward light, thus ena-

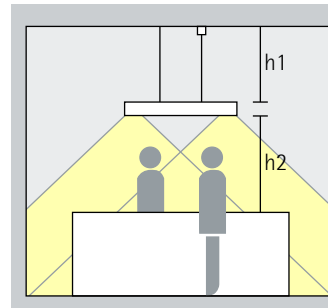
bling high visual comfort.



### Three light distribution curves for precise lighting calculation.

With Compar pendant luminaires, in addition to optional upward light emission, two further identical light distributions are available for downward light.

Lighting calculation programs such as Dialux can precisely determine the lighting level and uniformity on horizontal surfaces.



### Rule of thumb for luminaire arrangement

The light point height of pendant luminaires should be above head-height to achieve a good visual relationship between people.

The ideal distance ( $h_1$ ) to the ceiling for luminaires with an indirect component is at least 0.5 metres.



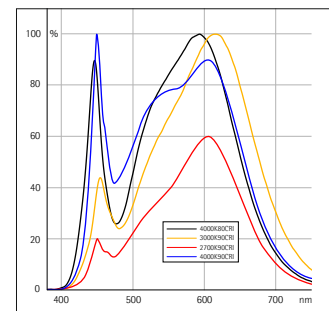
Direct/indirect light, tuneable white and two construction sizes – Compar pendant luminaires with wide flood and oval wide flood also offer two standard-compliant light distributions ideal for office workstations and reception desks. With the tuneable white version the user can individually set the light colour of the indirect component directed upwards.

## ERCO Innovations 2018 LED spectrum in four versions

### A variety of spectra for different room and material impressions

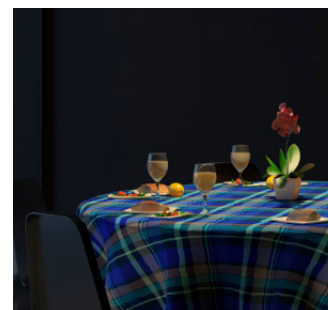
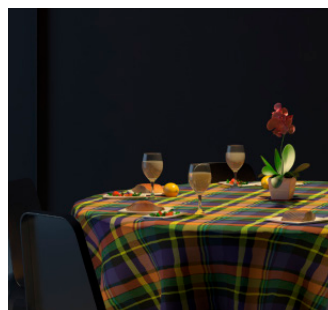
Various focus areas in the red and blue areas of the spectrum enable differing colour temperatures that allow the light colour to be individually matched to the specific atmosphere and materials.

Dimmed light is associated with warm-toned light, similar to candlelight. Bright illumination on the other hand is associated with cool light colours similar to daylight. All ERCO luminaires are now also available with 2700K.



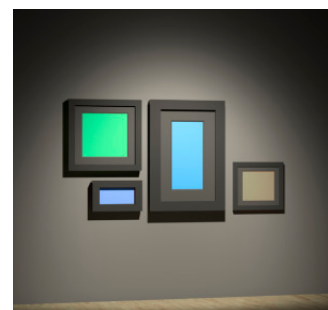
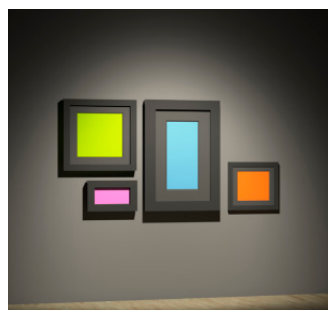
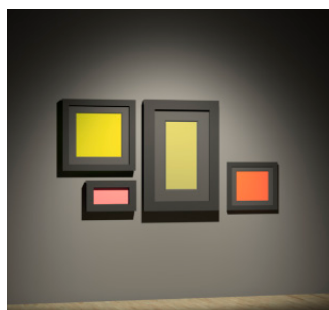
### Warm white 2700K Ra≥90 84lm/W\*

The very warm colour impression equates to that of incandescent bulbs and is suitable for warm-toned materials, as used for example in living areas or hotels to create cosy and comfortable atmospheres.



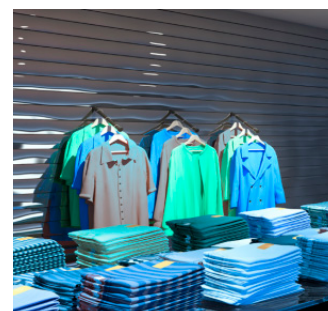
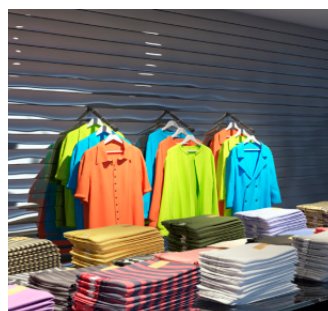
### Warm white 3000K Ra≥90 105lm/W

The 3000K version is suitable for universal use with differing material colours and very high demands in terms of colour rendering and efficiency. This spectrum with very good colour rendering characteristics is particularly relevant for museum applications.



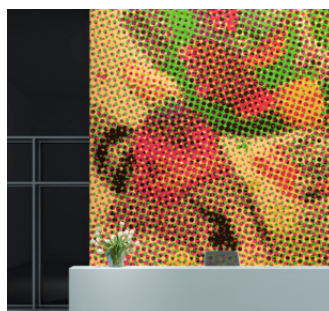
### Neutral white 4000K Ra≥90 105lm/W\*

Stores aiming for a cool, technical brand image and very good colour rendering for their merchandise find the right solution in the 4000K version with Ra≥90.



### Neutral white 4000K Ra≥80 138lm/W

In applications with high levels of daylight such as offices, 4000K creates a harmonious ratio of light colours. The very high luminous efficacy of 138lm/W enables extremely energy-efficient lighting solutions.



\* available on request

### Warm material colours

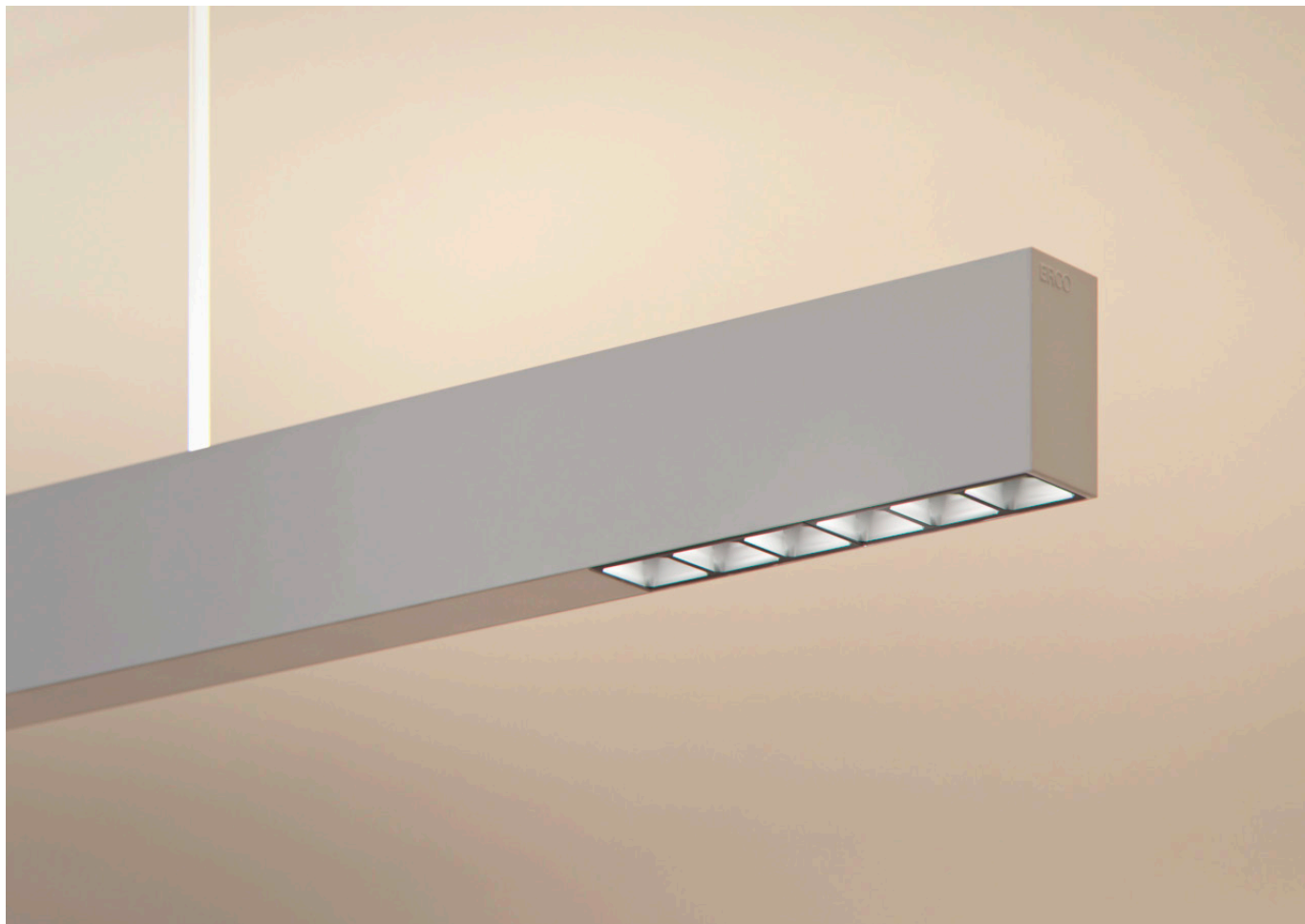
Warm colours such as red, orange and yellow are shown to particular advantage with a very warm 2700K light colour. Conversely, a cool light colour would lessen the impact of the colours. 2700K is especially suitable for use in bakeries, leather and gold jewellery stores as well as for surface materials such as wood and sandstone.

### Various material colours

Where both warm and cool material colours are in a single area, the 3000K spectrum achieves very good results in terms of the overall impact of the colours. In museums and shops where a wide variety of colours come together, 3000K is usually installed.

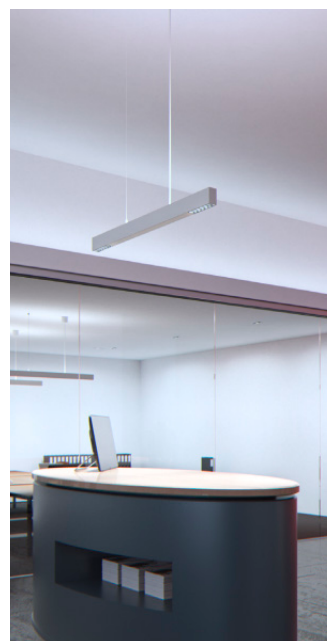
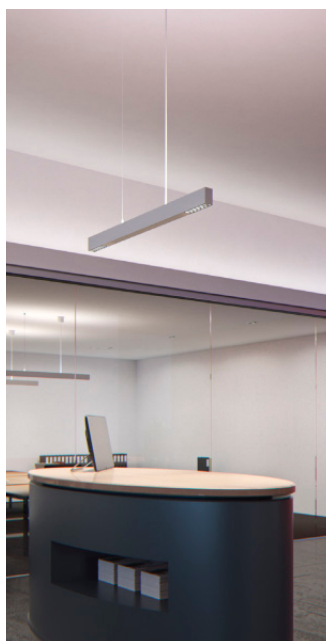
### Cool material colours

A 4000K light colour is suitable to emphasise cool colours such as blue and green. Materials such as concrete or metal, but also merchandise such as silver jewellery convey a cool, technical impression. The neutral white 4000K colour temperature is also suitable in applications with high levels of daylight.



### **Tunable white**

Tunable white technology makes it possible to change the light from a warm to a cool colour in the room. The tunable white function makes the ambience more pleasing, especially in applications such as offices with high levels of daylight at midday and where dimmed light is preferred towards evening. Cool light colours in the morning and at midday have an energising effect on employees. Warm-toned light in the evening on the other hand supports relaxation. Compar pendant luminaires feature tunable white technology for pleasant work atmospheres in offices.

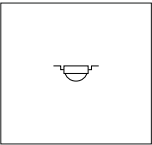
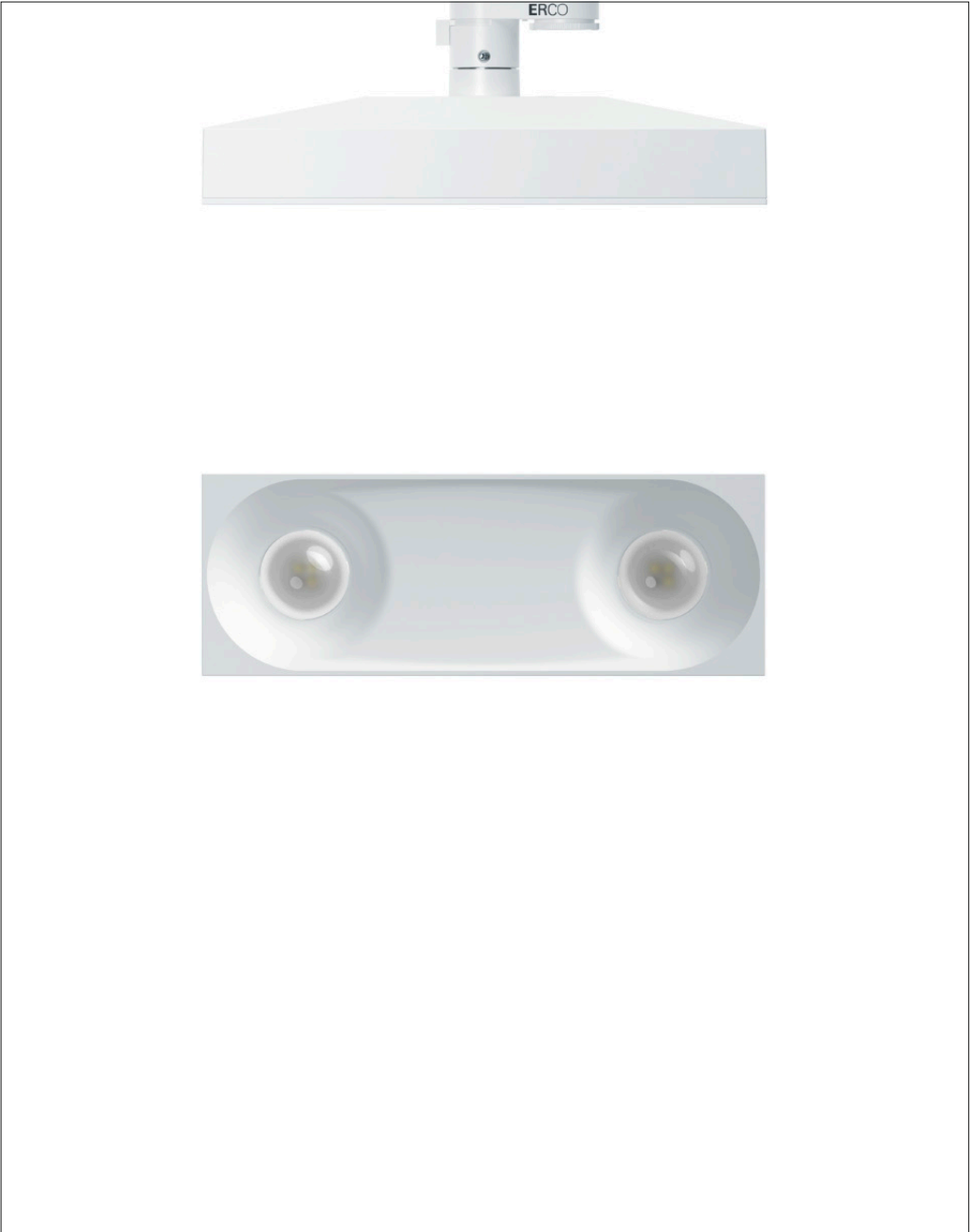


Downlights, as flexible as spotlights

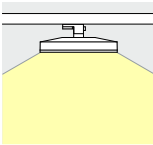
Cost-effectiveness, efficiency and visual comfort for today's dynamic worlds of work

Skim luminaires for track not only have an unusual design with their double lens optic in a flat diecast aluminium housing, but simultaneously define a specific category of lighting tools: they unite the flexibility of track spotlights with the visual comfort, efficiency and simplicity of downlights. This makes them ideal for contemporary worlds of work which are continually being reorganised. The arrangement and alignment of Skim luminaires on track can be adapted at any time to modified office layouts. Their lighting technology is based on the eponymous recessed and surface-mounted luminaires with which they can be ideally combined. Various wattages, light distributions and dimming options provide lighting designers with many possibilities for differentiated design in offices, retail projects and public buildings.

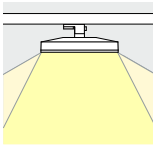
Page 215



LED



**Downlights**  
12W – 19W  
1260lm – 2460lm  
Wide flood,  
extra wide flood



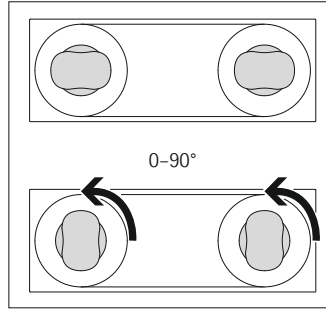
**Downlights oval flood**  
12W – 19W  
1260lm – 2460lm  
Oval flood





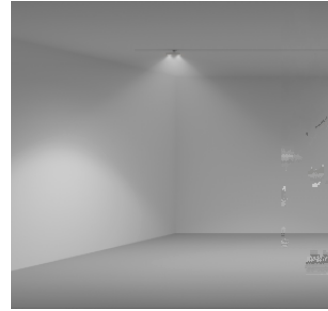
#### Compact design

The compact design of Skim has a discreet appearance to place emphasis on the light effect. Compact luminaire dimensions are particularly beneficial in low rooms.



#### Oval flood, freely rotatable

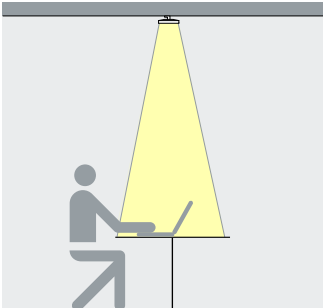
Skim luminaires are equipped with an oval flood lens rotatable through 90°. The adapter also allows the luminaire to be freely rotated to enable the lighting to be optimally matched to furniture.



#### Differentiated light distributions for general and workstation lighting

Various light distributions enable flexible adjustment to the specific lighting task. With general lighting using Skim downlights, lighting designers

have options of wide to very wide floodlighting and oval floodlighting.



#### Suitable for office workstations

ERCO develops luminaires with the specifications of good glare control and high visual comfort. UGR values can be applied for lighting solely oriented to standards.



#### Downlights for flexible lighting design

Skim downlights for track enable flexible infrastructures in offices with changing furniture arrangements. Even if the location changes, the infrastructure consisting of luminaires and track

can also be conveniently relocated. This allows companies to minimise reorganisation and removal costs.



In modern offices, ergonomics and flexibility are focused on. A lighting concept with Skim downlights for track can be quickly and simply adapted to changes in organisational structures and office layouts.



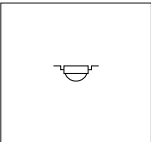
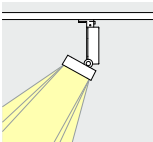
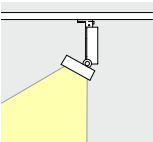
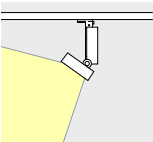
For high rooms and high standards

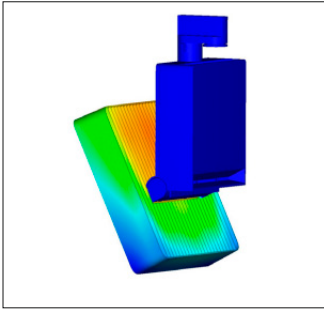
High-output, efficient and precise tools for accent lighting

It's a law of physics: illuminance recedes with the square of the distance between the light source and illuminated plane. This is the reason why high-lumen output luminaires are needed for wide lighting distances and high rooms – for example when showcasing vehicles in a trade show hall, for large sculptures in a museum foyer or for uniform wallwashing in an airport. The name Stella in the ERCO product range represents high-performance spotlights, floodlights and wallwashers for track mounting. The product range provides efficient replacements for existing applications using 150W metal halide lamps. The Stella family consists of two sizes and all light distributions within the ERCO system of luminaires generated by reliable and highly efficient Spherolit lens optics. As a result, complex lighting tasks can be flexibly and consistently resolved. The simple, technical design of the cast aluminium housing achieves ideal thermal conditions and therefore reliability and a long service life.

Page 143



			
LED	<b>Spotlights</b> 28W – 76W 2940lm – 9840lm Narrow spot, spot, flood	<b>Floodlights</b> 36W – 74W 3780lm – 9585lm Wide flood, extra wide flood, oval flood	<b>Lens wallwashers</b> 36W – 74W 3780lm – 9585lm Wallwash



### Outstanding thermal management

Even with high-lumen output spotlights with 76 watts, ERCO with Stella relies on its tried-and-tested passive cooling for efficiently dissipating the heat from the LED module over the hous-

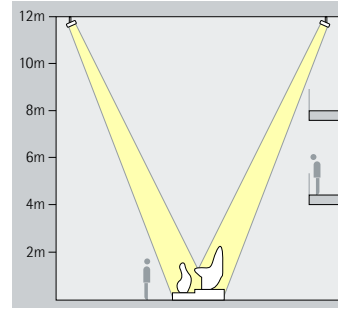
ing. Compared to other solutions such as fans, passive cooling has the advantage of being free of maintenance and without noise.



### Very high illuminances

Very high illuminances are needed to accent objects in high rooms containing daylight in order to achieve visible contrasts of at least 5:1 to the bright surroundings. Precision optics and high lumen-output

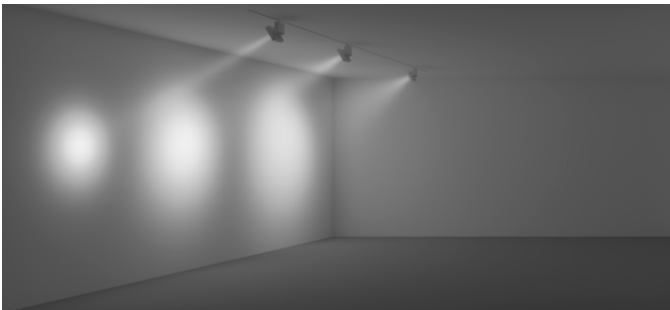
packages of up to 9840lm and 500,000cd enable this to also be easily implemented in very high rooms.



### Narrow spot for high rooms

For outstanding visual comfort in high rooms, narrow spot light distribution prevents almost all glare when observers cast their gaze upwards. This light distribution generates

a light cone of 1.2m at distances of 12m for example, for effectively accenting medium-large objects.



### Various light distributions for maximum flexibility

Differentiated light distributions allow lighting to be flexibly adapted to the specific lighting task. With Stella, lighting designers can specify the light distribution

according to their project, ranging from very narrow accenting to wide floodlighting and wallwashing.

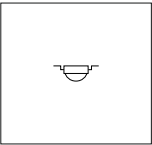


Display lighting from great distances requires high luminous flux levels and precise light distributions. The Stella range is in its element in the large showrooms of leading car dealerships and prestigious foyers for example.

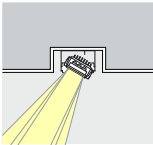
The versatile special tool

**Versatile lighting technology with cardanic suspension, optimised for channel-mounting**  
The principle of cardanic suspension with Gimbal recessed spotlights translates into an especially precise, comfortable swivel mechanism. It is not only more compact than standard versions, but the centre of the light unit maintains its position during alignment – as a result Gimbal is ideal as a tool for lighting concepts with ceiling channels. Gimbal is simply installed into ceiling constructions with ceiling channels thanks to its special mounting bracket. Several construction sizes and wattages for each light distribution create lively, nuanced and flexible lighting concepts. Applications are retail projects, hotels and restaurants as well as buildings where lighting designers plan discreet and effective lighting from ceiling channels or coves.

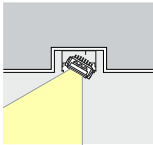
Page 279



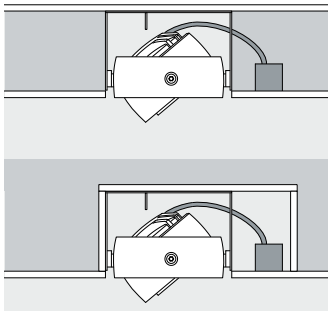
LED



**Recessed spotlights**  
2W – 38W  
210lm – 4920lm  
Narrow spot,  
Spot, Flood

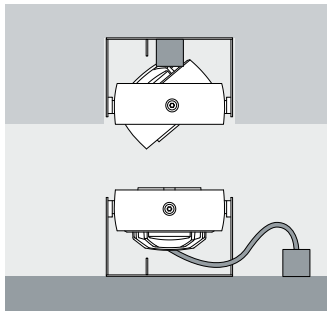


**Recessed floodlights**  
6W – 38W  
630lm – 4920lm  
Wide flood,  
Extra wide flood,  
Oval flood



**Flexibility for different types of ceiling channels**  
The versatile mounting bracket allows Gimbal to be used in a variety of ceiling channel structures and to be adapted to various channel depths.

The mounting bracket also enables Gimbal to be installed directly to structural elements such as walls and beams.



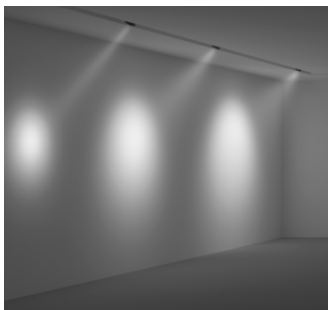
**A clear ceiling appearance**  
With luminaires concealed in dark ceiling channels, the technical infrastructure of the lighting disappears in the overall spatial effect. Only the light impact of Gimbal is decisive in the room. The

solution within the ceiling achieves a minimalist ceiling appearance but the pivotable luminaires still provide high flexibility.



**Flexible mechanics**  
Gimbal's cardanic suspension allows it to be swivelled through 40°. Cardano's invention was originally used for ships' compasses. By implementing this principle for the Gimbal range, the luminaires

become extremely flexible and are particularly suitable for brands valuing technical design.



**Various light distributions for maximum flexibility**  
Differentiated light distributions allow lighting to be adapted to the specific task. With Gimbal, lighting designers can specify the most suitable distribution for their pro-

jects, ranging from very narrow accenting to very wide floodlighting.



**Various construction sizes**  
Gimbal is available in various lumen packages for differing lumen requirements.



Ceiling channels are the most suitable lighting solution for interiors with minimalist designs that place a focus on the light effect. Gimbal recessed floodlights for ceiling channels have been specifically designed for such purposes.

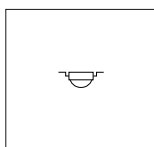


## Quintessence double-focus downlights and wallwashers

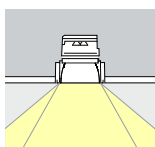
Because of their high lumen package and specific light distributions, Quintessence double focus recessed luminaires are particularly suitable for use in high rooms, such as banquet halls, concert halls, foyers and other prestigious spaces. Lens systems consisting of collimator and Spherolit lens make them efficient and precise lighting tools. As an addition to the narrow distribution downlights, wallwashers now provide very uniform vertical illumination even on high walls and at small distances to the wall. The range of double focus downlights has also been expanded with further high wattages: for even higher luminous flux and design flexibility in rooms with unusual dimensions. With all double focus recessed luminaires, the black anti-glare cone creates a discreet appearance and minimises glare when looking into the luminaire, thus achieving high visual comfort.



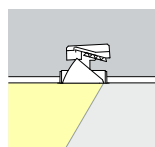
Page 359



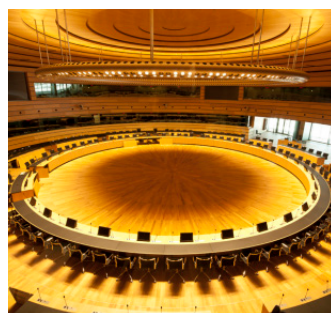
LED



**Double-focus downlights**  
10W – 38W  
930lm – 4920lm  
Flood, Wide flood



**Double-focus wallwashers**  
10W – 30W  
930lm – 4125lm  
Wallwash



### High lumen-output packages

Double focus downlights are ideal for horizontal illumination from great heights, for example in atriums and foyers. For efficient lighting, ERCO implements its in-house devel-

oped Spherolit lens system and two wattages per size. As a result, lighting designers can work with compact luminaire diameters despite high ceilings.



### General lighting via wallwashing

Quintessence double focus wallwashers can also be used in rooms of normal height. The short distance to the wall creates a calm ceiling appearance and the effective ambient light component also

generates a high impression of brightness on horizontal surfaces.

### Wallwashing for high rooms

Multi-storey spaces pose specific lighting challenges. Until now, wallwashers in very high rooms had to be mounted to the wall at dis-

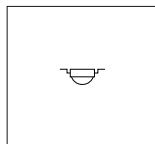
proportionately wide distances; the ideal wall distance of the newly developed Quintessence double focus wallwashers is now just a fifth of the room height.



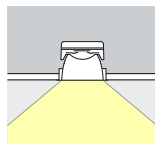
## Quintessence downlights with 60° beam angle

Quintessence downlights score with efficiency and high visual comfort. As well as the familiar 90° beam angle for wide distances between luminaires especially with low ceiling heights, the range has now been supplemented with 60° wide flood light distribution. The optical system consisting of diffuser lens and darklight reflector projects a narrower beam and thus expands the application range to rooms with high ceilings. Lighting designers now also have an LED lighting tool that can be used for refurbishing existing installations featuring conventional lamp technology, and without the need for complex replanning.

Page 326



LED



**Downlights**  
12W – 32W  
1260lm – 4400lm  
Wide flood



**Suitable for office workstations**  
With a 60° beam angle and 40° cut-off, Quintessence recessed luminaires with wide flood light distribution are suitable for the standard-compliant illumination of office workstations and reception desks.



### New accessories for maximum visual comfort

New accessories are now available for all current ERCO spotlights with circular light emission to comply with specific glare protection requirements – for example in museums, shops and public buildings. Cross baffles and honey-comb anti-glare screens ensure maximum visual comfort. These are attached without tools and each are available in four sizes. The cross baffles are available with a black, white or silver cylinder to match the colour of the spotlights.



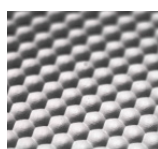
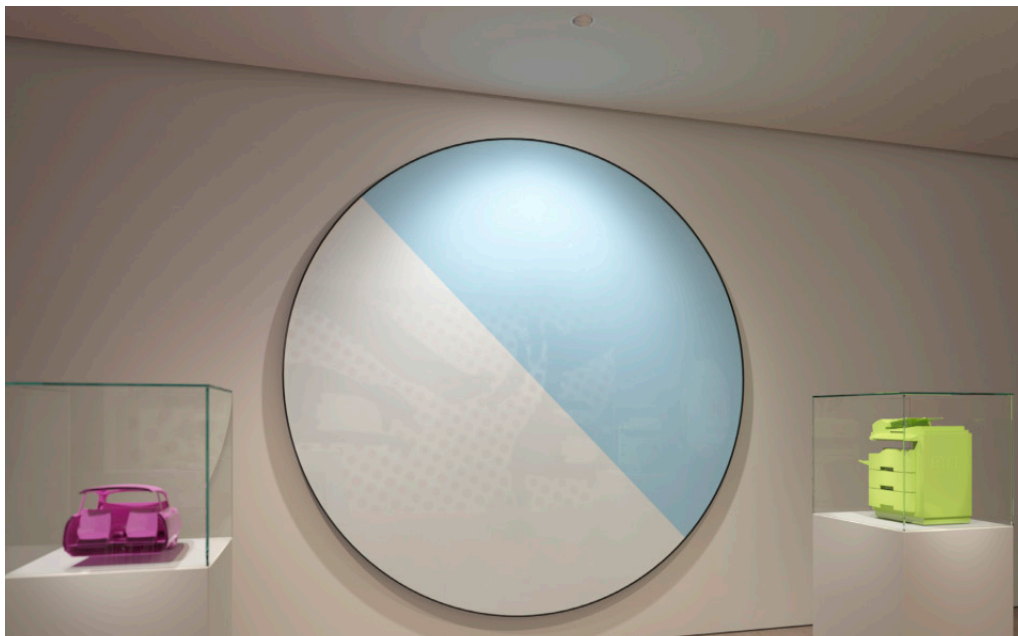
### Three housing colours for all spotlights, floodlights and wallwashers for track

The stringent criteria of the ERCO luminaire system is a decisive advantage for both lighting designers and users. In the spotlight, floodlight and wallwasher sectors we have taken a further step towards integrated system logic: all products are now available in the three ERCO standard colours of white (RAL 9002), black (RAL 9011) and silver (RAL 9006) to blend perfectly into any style of architecture. Metal surfaces are usually coated in an environmentally-friendly, sturdy powder coating. Black and silver luminaire housings are supplied with black track adapters and white luminaire housings with white adapters.

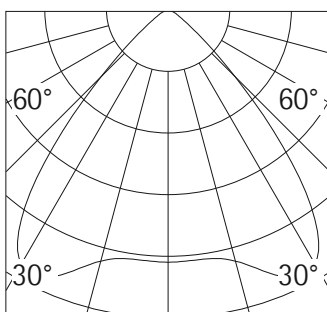


### New light distribution with 80°: extra wide flood for indoor recessed floodlights

The logic behind the ERCO luminaire system simplifies lighting design and specification because it consistently defines features such as light colour and light distributions across all product families. As a result, extra wide flood distribution is now also available for indoor recessed floodlights. The rotationally symmetrical light distribution with a wide 80° beam angle corresponds to the downlight characteristics within the ERCO luminaire system. This makes the recessed floodlights even more flexible and efficient in use.



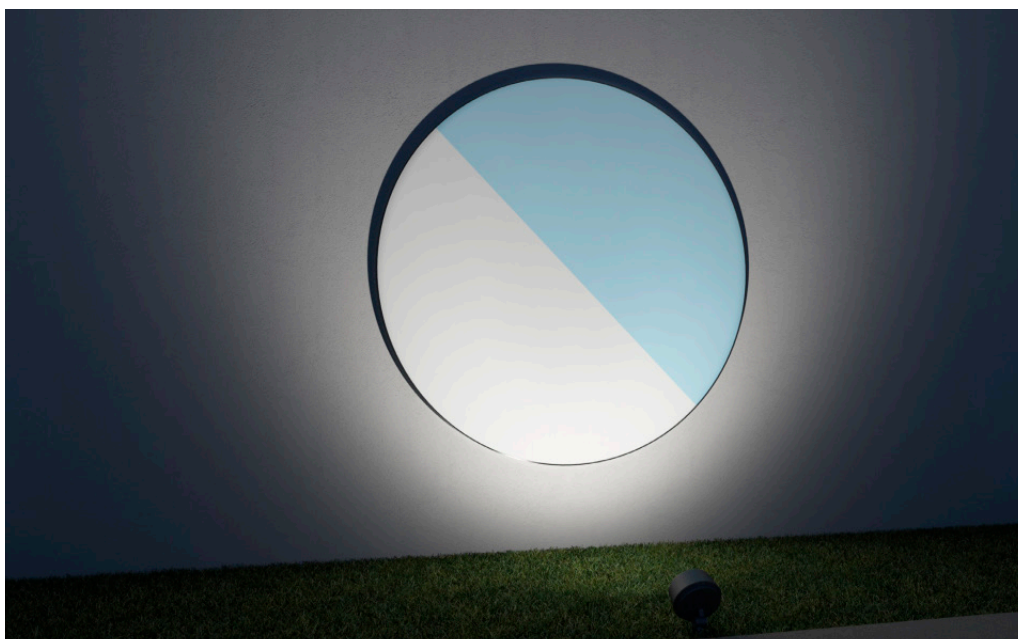
**Extra wide flood**  
Flexible flood-lighting with the display of objects  
Beam angle > 80°.



The advantages of extra wide flood light distribution lie in the uniform flood-lighting of even large objects and exhibits from short distances and also in the flexible, general lighting of rooms with wide luminaire spacing.

### Extra wide flood for outdoor floodlights

Extra wide flood with 80° beam angle is particularly suitable in outdoor applications if the building- or site-specific situation allows only short distances between the floodlights and target planes such as objects or facades. The wide rotationally symmetrical light distribution, corresponding to a downlight characteristic, is now also available with all ERCO outdoor floodlights.



Particularly outdoors, there is often little flexibility available for the positioning of luminaires. Projectors with extra

wide flood distribution require especially small distances to the target plane, e.g. a detail on a facade or lettering.