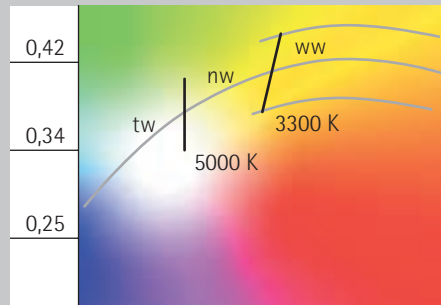


ERCO

Light factory





Polygon Bar and Grill,
London. Architect: Wells
Mackereth, London

Glass pyramid of the
Grand Louvre, Paris.
Architect: I. M. Pei, New
York, Lighting design:
Claude and Danielle
Engle, Washington (DC)



Pinacoteca Vaticana,
Rome. Lighting design:
ENEL S.p.A., Rome



Guggenheim Museum,
Bilbao. Architect: Frank
O. Gehry & Associates,
Inc., Santa Monica
Lighting design: Lam
Partners Inc.,
Cambridge/MA

Light - the fourth dimension of architecture

Demanding projects always present architects and lighting designers with new lighting challenges. An airport requires different lighting concepts than an administrative building, a church other solutions than an opera house, an English garden other approaches than a downtown square. Light interprets space - it is the fourth dimension of architecture.

However, whether functionality or representation are at the forefront of the architectural conception, whether a new lighting

Millenium Grandstand,
Nad al-Sheba horse race-
course, Dubai. Architect:
EO Engineer's Office,
Dubai



installation is being planned for a historic building or a lighting concept is being developed for modern rooms, the objective is always to find a solution that will do justice to the specific use and architectural peculiarities of each individual project. ERCO's indoor luminaires, outdoor luminaires and lighting control systems make up a comprehensive range of lighting equipment for general, holistic lighting solutions in architecture.

Light - the fourth dimension of architecture



City Hall, London. Architects: Foster & Partners, London. Lighting design: Claude Engle, Chevy Chase, MA.



"Blue Lagoon" thermal bath, Iceland
Architect: Vinnustofa Arkitekta ehf., Sigríður Sígþórsdóttir, Reykjavík
Lighting design: Rafteikning hf., Guðjón L. Sigurdsson, Reykjavík



DZ Bank, Berlin branch.
Architect: Frank O. Gehry, Santa Monica
Lighting design: a-g Licht, Bonn



Brandenburg Gate, Berlin. Lighting design: Kardorff Ingenieure, Berlin



BOSS Flagship Store, New York. Lighting design: Lichtspiel, Hamburg.



ABN AMRO Sydney, Management floors. Architect: Renzo Piano Building Workshop, Genoa/Paris. Lighting design: Lighting Design Partnership Pty Ltd, Sydney. Interior design: HBO+EMTB, Sydney

Georg Jensen Shop, London. Architect: Signe Bindslev Henriksen, GJ International Retail



Issey Miyake exhibition at the Fondation Cartier, Paris. Architect: Jean Nouvel, Paris.

Lighting design – Lighting application

Designing and applying lighting means shaping the visual environment of human beings. Good lighting creates the best possible perceptual conditions. It can increase work performance and allows for safe orientation; it gives a sense of well-being and offers an aesthetic experience.

Producing lighting which conforms to standards is by no means a work of art. However, this quantitative design approach fails to recognise the complex and subjective perceptual processes of users and observers alike. Qualitative lighting design approaches take into account the perceptive and shaping properties of architecture. For many years, the following theories and basic rules of lighting design have proved to be successful in our work:

Light is the fourth dimension of architecture. Light interprets space and helps us to perceive and experience them.

The path of the light beam is invisible. Light is therefore a medium which makes things visible, but which cannot be seen.

Shadows, semi-darkness and contrast, which allow space or objects to be experienced, are all part of light.

Many light sources are required to darken a room, and possibly more than to make it uniformly bright.

Vision is the most important sense of perception before smell, taste, hearing and feeling.

The quality of perception and the quality of vision are the result of good lighting.

Good lighting requires, first and foremost, visual comfort, which means direct and reflected glare-free light.

Light falling on vertical surfaces is often more important for perception than light falling on horizontal surfaces.

The basic structural elements for a lighting concept are ambient lighting, accent lighting, scenic lighting.

The luminaire is a lighting tool, a type of lighting equipment with a special practical purpose and therefore not an aesthetic object.

Anyone illuminating a room must think in terms of the qualities of light and not in terms of pretty shapes.



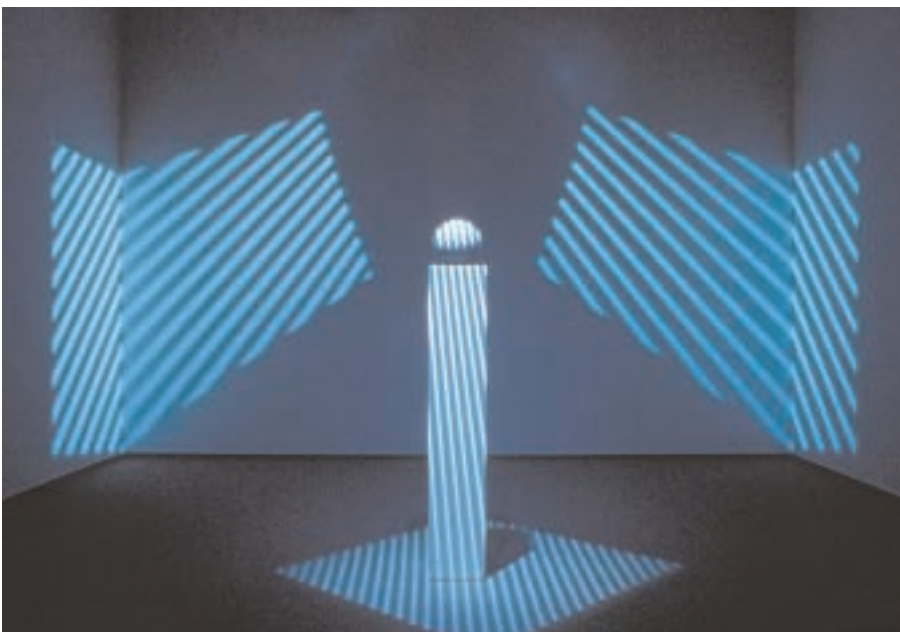
Ambient lighting: For example, the indirect general lighting seen in an airport terminal (left) or the shelf lighting seen in a library (bottom).





Accent lighting: Directed light accentuates objects of attention and creates perceptual hierarchies in a sculpture gallery.

Scenic lighting: Decorative lighting effects with colours, patterns and dynamic variations create atmosphere and a sense of magic.



Company headquarters

ERCO's headquarters are in Lüdenscheid, an industrial city with tradition located in the heart of Germany. More than 800 employees work in the Development, Production, Sales and Management Departments with an additional 200 in branches all over the world.



Located in ERCO's Technical Center in Lüdenscheid are: Design studios, testing laboratories, tool making – to mention but a few fields of activity.



The mock-up room is used to demonstrate product ranges and to test prototypes under variable conditions, such as different ceiling heights.

Thousands of luminaires are dispatched from the plant every day. Their destination: buildings in all continents. They comply with the safety requirements of their countries of destination. The manufacturing and testing processes are subject to strict standards, thus ensuring long product life.



In the Production Department: The powder-coating facility (top), the plastic-injection moulding facility (right).



A view of the ERCO P3 high-bay storage facility, the heart of the logistics system (top). The assembly and final inspection of luminaires is highly specialized manual work (right).



ERCO all over the world

ERCO is a cosmopolitan, globally active company. Local ERCO centers of expertise, offices and lighting studios can be found in all major markets. Here, our superbly educated, specially trained employees work as lighting advisors. This worldwide network guarantees reliable service and competent, on-site support even on international projects: from providing a consulting service during the planning stage, tendering, sample supply and project planning to customer service and training.

At the end of this brochure, you will find all ERCO contact addresses throughout the world.



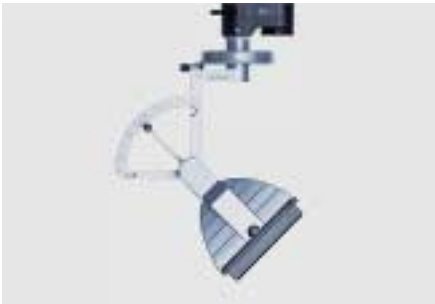
"Consultant to the consultant", is how ERCO lighting advisors define their role in the construction process: professional support for designers for all lighting problems and project stages.



ERCO lighting advisors are just as familiar with our products and their applications as they are with local conditions – whether in Dubai (top) or in another part of the world.

Even in the virtual age trade fairs have a value: they are places where not only technical discussions but also informal contacts take place. Here, products can be experienced in direct, sensorial ways.





Lighting designers all over the world value the precision of the Quinta spotlight and floodlight range. ERCO supplies the right technical version for every region of the world: for example, for the BOSS Flagship store in Manhattan/New York (right).



The ERCO Light Scout (www.erco.com) is published in several languages: 10 versions of product data sheets make international planning safer and easier than ever before.



Power supply networks and safety regulations differ from one country to another. Anyone planning an international project must be sure that a specified luminaire will work in its country of destination, regardless of the project's location, whether in Stockholm, London, Dubai, Singapore, Osaka, Caracas, Melbourne or Seattle.

ERCO products are world products. This means that a luminaire of the same design and comparable performance will normally be available for the markets in Europe, South America and Asia (230V/50Hz), Britain or Australia (240V/50Hz), the U.S.A. (120V/50Hz) as well as in Japan (110V/50 or 60 Hz).

With ERCO Light Scout (www.erco.com), it has never been easier to find the specifications of luminaires for international projects: if, in the product section, the designer chooses the option "Language / Regional requirements" that corresponds to the project location, only the products that exactly match his needs will be offered for selection with their product data sheets. Product data sheets are currently available in 10 different versions.



A large part of the ERCO product range is also available in versions for the Japanese market.

Lighting equipment

The luminaire is a lighting tool, a type of lighting equipment with a special practical purpose. This approach is reflected in the design of our products. Our Product program for architectural lighting comprises the three areas of Indoor Luminaires, Outdoor Luminaires and ERCO Controls systems. They allow holistic lighting concepts to become reality.

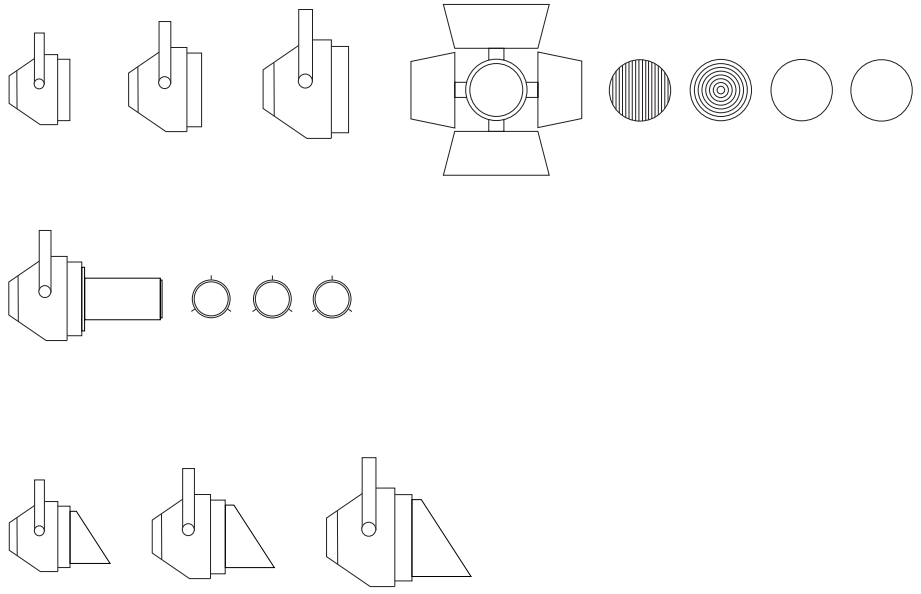
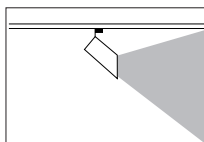
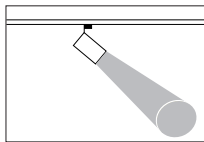
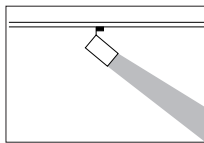
Indoor luminaire
Lucy task light
Design: Franco Clivio



Indoor luminaire
Lightcast Downlight
Design: Franco Clivio



Logical system design is characteristic of ERCO lighting equipment. This is clearly exemplified by the Stella spotlight (Design: Franco Clivio): various housing sizes, lamp options, optical systems and accessories make up a "construction kit", from which numerous lighting tools are created for the most varied areas of application.





ERCO Controls:
Control Pad
Control panel for
lighting control systems

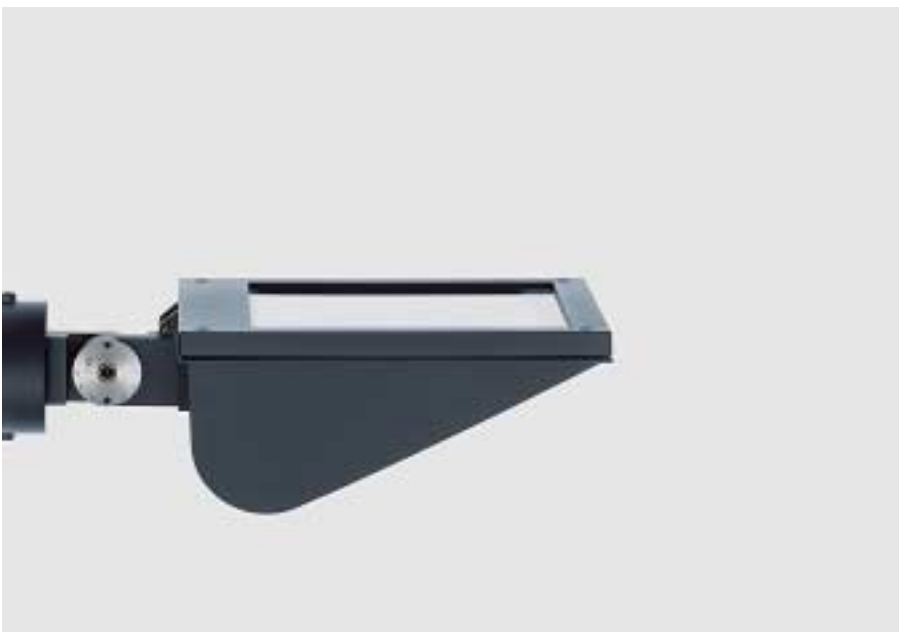


Outdoor luminaire
Visor floor washlight

Outdoor luminaire
Focalflood floodlight



Outdoor luminaire
Parscoop washlight



Outdoor luminaire
Tesis recessed floor
luminaire

Light qualities

The planning of architectural projects is already an integrated process with many participants, increasingly going beyond the borders of countries and continents. Anyone involved needs the right information at all times in every place: optimal information logistics. Just as important as the quality and the efficiency of the products themselves is the provision of planning data and product information in such a way that they can be seamlessly integrated into the planning process.

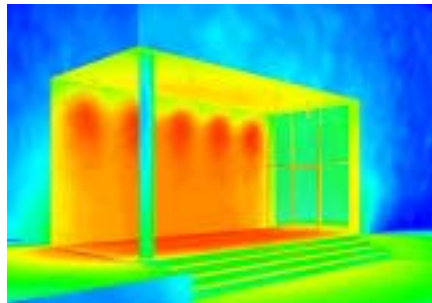
The planning data we offer at www.ercos.com, comprises the whole product range, from 2D-CAD luminaire symbols and 3D-CAD luminaire models with photometric data, VIZ4 luminaire data, Dialux-Plugins and tender documentation to instructions for installation and use. This is how we support all stages of digital workflow – from the concept to the operation of the finished building.



The use of computers and the Internet has radically changed architectural planning processes.



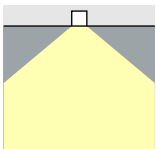
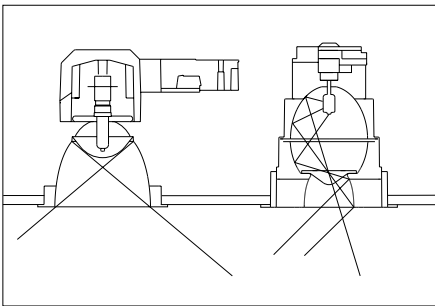
Virtual luminaires (i.e., luminaire data records for light simulations programs) are offered as downloads by ERCO at www.ercos.com. The planning data is available for all products and in various data formats.



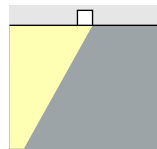
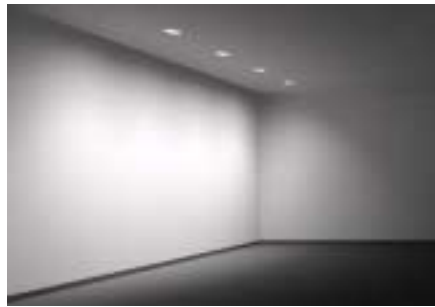
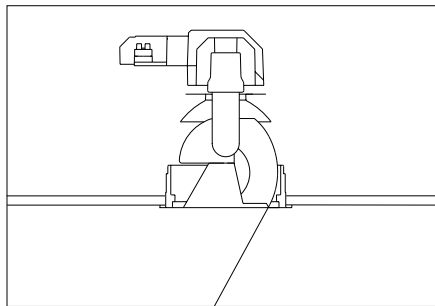
Lighting design is not ideological: computer simulations are just as valid as lighting tests using models.

Sometimes, final assurance is given by the sample supply with designers and ERCO experts on site, such as here in the construction site of the Berlin Chancellery.

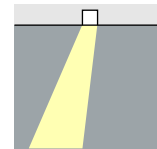
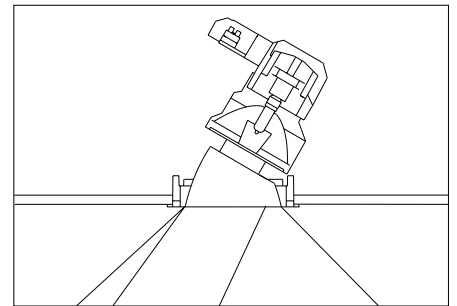




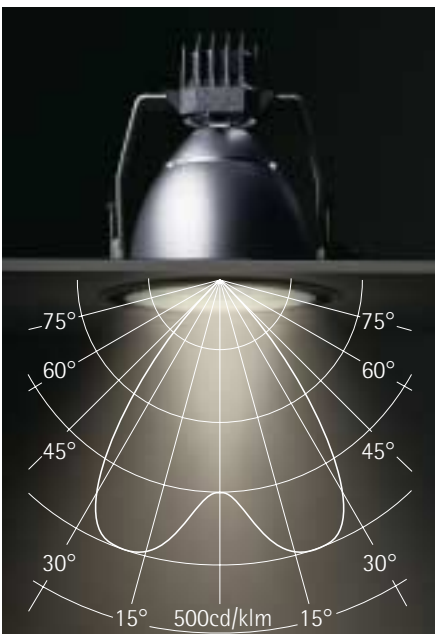
Three recessed ceiling luminaires, three different qualities of light: Here, downlights with rotationally symmetrical light distribution provide the general lighting. Scallops of light can be seen on the wall.



Recessed ceiling wall-washers create very even illumination on vertical surfaces. Illuminated walls define the borders of rooms, provide a feeling of space and create a high subjective brightness in the room.



Recessed ceiling directional luminaires discreetly create directed, accentuated light. They can therefore guide the attention of the observer - in this case, to the objects on the wall. A concentrated atmosphere is created.



The description of light: The light distribution curve (LVK) is precisely calculated for every luminaire in time-consuming laboratory measurements. This curve shows at a glance the beam characteristics and thus the lighting effect of a luminaire.

High-grade optical systems and precisely calculated reflectors allow us to attain very different light qualities - special instruments for subtly different applications. The high demands placed on visual comfort, the light distribution and the light output ratio inspire us to continuously find new solutions and innovative ideas in lighting technology.

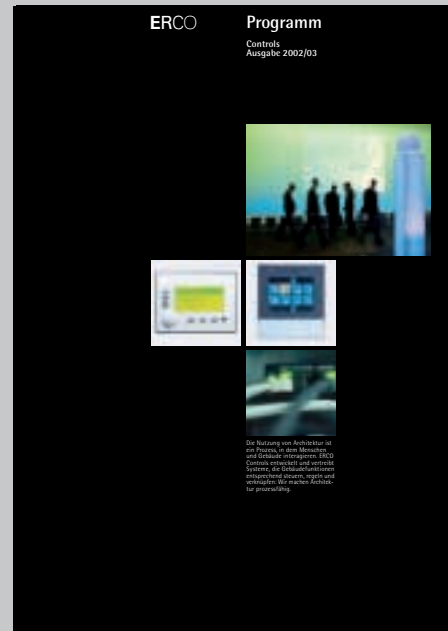
We will gladly give you the knowledge you need to apply this lighting equipment correctly: the Light Scout Guide (www.erco.com) and detailed design information in the catalogue or data sheets will help you to always achieve the optimal effect.



Program
Indoor Lighting



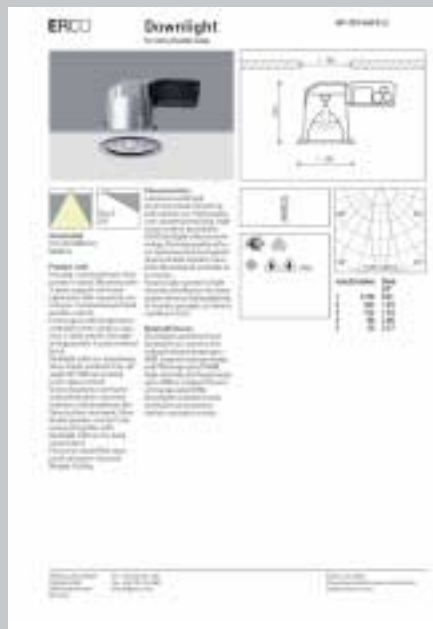
Program
Outdoor Lighting



Program
ERCO Controls
(lighting control
systems)



The ERCO Lichtbericht,
our customer magazine,
provides information
three times a year on
lighting projects
through-out the world.



For every product we
have product data
sheets that include
detailed technical spe-
cifications - in up to 11
different language and
regional versions.

ERCO offers a varied and integrated system made up of classic and digital media so that lighting designers can be optimally supported with information in every stage of their work. Our comprehensive choice of lighting solutions for architecture is sub-divided into the Indoor Lighting, Outdoor Lighting and lighting control product ranges. You will find this structure on our Internet pages, the Light Scout at www.erco.com as well as in our three available printed catalogues. All ERCO documents perfectly complement each other in the planning of universal and conclusive lighting concepts: The design, structure and terminology of the various Programs have been kept uniform to make orientation as easy as possible. Please contact your local ERCO contact (address in appendix) if you would like to receive the documents or send us an e-mail with your request and address to: info@erco.com



ERCO pictorial:
The cover of the Light Scout invites you to explore the world of architectural lighting.

The Project section shows examples of architectural lighting from all over the world. Cross-references lead you directly to the products used or to the appropriate subjects in the Guide section.



Precise, current product information is the core of the Light Scout. Just click on the product tables and a new window with the corresponding product data sheet in pdf format will open up.



The Guide is an interactive lighting design manual. The contextual links of its information modules refer you to the relevant content in the Product and Project sections.



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