Sustainable lighting with LED
Not only does the technological revolution of the LED mark a major step towards energy efficiency, it also drives an intelligent implementation of new products and lighting concepts that, in turn, deliver new standards of quality – for sustainable architectural lighting based on human perception – such as here at Bosch Siemens Hausgeräte in Hoofddorp, where ERCO’s LED light was used to create the first “Cradle to Cradle” office building in the Netherlands.
Background

10 Planning practice with LED: “100% LED is a realistic vision”
Renovations at the town hall in Schorndorf near Stuttgart, a project involving LED lighting supplied by ERCO, are nearing completion. In September 2012, we talked to architect Gunter Fritz (Ippolito Fleitz Group) and lighting designer Stefan Hofmann (Lichtwerke) about their experiences and deductions regarding the use of LED lighting in a real-life situation.

Projects

22 Duvetica showroom, Milan
LED light for fashion

24 Ikazia hospital, Rotterdam
LED light for health

26 Gallerie d’Italia – Piazza Scala, Milan
LED light for historic rooms

28 Forskolum Gallery, Helsingør
LED light for art

30 Pizza Hut, Solihull
LED light in gastronomy

32 Backlights

About this issue

“100% LED” has now become common practice in many projects. This Lichtbericht is entirely focused on LEDs and provides an overview of the diversity of applications for this new technology. It shows, without a doubt, that the LED has now advanced well beyond its initial applications and has replaced conventional sources in many projects.

ERCO embraces this change in technology, and, as in the past year, our 2013 innovations are 100% LED. Pages 14 to 17 offer an introduction to these new products – they have followed the same path of deploying LEDs whenever possible, thereby satisfying our clients’ interest in using superb, ground-breaking LED technology in a wide range of performance levels and a multitude of applications.

The projects described in this Lichtbericht are designed to give you an impression of the many different uses of LED lighting. It starts off with the headquarters of Bosch Siemens Hausgeräte (BSH) in the Netherlands from page 6 – an office and showroom project based entirely on the “Cradle to Cradle” concept; from the moment of architectural planning and design, its whole object is to promote both ecology and sustainability. The outcome is a building that combines modern aspects with ecology into a dynamic symbiosis of modern relevance.

A first-hand report on lighting at the town hall in Schorndorf, using LED lighting tools, is provided from page 10 onwards. Architect Gunter Fritz from Studio Ippolito Floetz in Stuttgart and lighting designer Stefan Hofmann from Lichtwerke in Cologne recall, in great detail, their experiences of planning and implementing LED lighting for the renovation of the town hall – a project they sum up as one that will pave the way for 100% LED solutions in architecture.

Duvetica – still a young fashion concept for down jackets – has now opened its fourth showroom in Milan based on designs by Japanese architect Tadao Ando. Light as a feather, the down jackets are displayed in trendy colours in a space of 220m² and stand in delightful contrast to the minimalist severity of the concrete architecture devised by Tadao Ando. The store is illuminated entirely with Logotec LED spotlights and Quintessence LED recessed luminaires. All in all, a showroom concept in which the sophistication lies in its clear simplicity.

In a ranking of the 100 top hospitals in the Netherlands, the Ikazia hospital in Rotterdam took second place. This high medical standard is equally evident in the hospital’s architecture. The new main entrance suggests the ambience of the foyer of a elegant, modern hotel. The pleasant atmosphere is underscored by an LED lighting concept that helps visitors find their bearings, as warm white light adds to the friendly reception in the building.

LED light in the historic rooms of the Palazzo Anguissola in Milan was used with impressive effects in an application that pays respect to the building’s fabric. Here, the light is designed primarily to serve and so should harmonise discreetly with architecture – this was a prominent aspect for this project. The Optec LED spotlights accentuate the works of art inconspicuously, but are equally effective in illuminating the architecture, thereby forging an elegant link that extends from the past to the future of light.
London French fashion boutique Dior was established in 1946 and has since stood for creativity and exceptional haute couture. More than 40 per-fumes for ladies and gents now complement the label. The new Dior perfume and cosmetics shop accommodated in the venerable department store Selfridges on Oxford Street shines in the brilliant light of Optec LED spotlights.


Gothenburg The city on the Kattegat is home to the Göteborg Konstmuseum (Gothenburg Museum of Art). Financed entirely by donations, it collects works of art from the 15th century through to the present day. The freshly renovated museum presents the works of Scandinavian, but also of Dutch and French, artists in the LED light of ERCO's Light Board, Logotec and Optec spotlights and wallwashers.

Gothenburg Konstmuseum, Gothenburg Lighting design: Daniel Lundahl, Göteborg Konstmuseum, Gothenburg www.konstmuseum.goteborg.se

Paris The trendy Marais district is considered the home of fashion. At the boutique of a Parisian fashion designer, the spirit of the 1920s meets modern LED technology for an inspiring presentation of space and products. ERCO's Logotec LED spotlights blend materials and interior in perfect harmony.

Architect: Nicholas André, Saint-Ouen

New York The focus at this Poggenpohl showroom in New York is firmly on design. Its location, on Park Avenue, enables the German kitchen manufacturer to position itself prominently in the US American market. High-quality kitchen furniture is complemented in style by high-quality lighting tools – Cantax LED spotlights on ERCO track.


Vienna The Museum of Natural History, in the heart of the metropolis on the Danube river, stands for modern exhibition concepts in historic premises. Built in 1889 by Gottfried Semper and Karl von Hasenauer, the building today houses more than 30 million objects. The dramatic exhibits in the Dinosaur Hall are illuminated, to great effect, by Logotec LED spotlights.

Dinosaur Hall in the Museum of Natural History, Vienna www.nhm-wien.ac.at

Kochi The first biennale for modern art in India is held in the historic Kochi assembly hall in Kerala province. In the tropical climate of Southwest India, this new avenue of exchange creates a buzz: modern art by Indian and international artists presented in the atmosphere of the historic building – illuminated by Logotec LED spotlights.

Durbar Hall Binnenraum, Kochi (Kerala) Architect: Vikas Dilawari (Head of Creative Assembly Hall in Kerala) wwww.poggenpohl.com

Nijmegen A common lighting concept for the main shopping street in the oldest town in the Netherlands – the Lange Hezelstraat. With more than 40 individually styled shops, the street lends itself to a leisurely shopping tour, illuminated in the evenings by the energy-efficient light of 120 Focalflood LED façade luminaires.

Lange Hezelstraat façade lighting, Nijmegen Lighting design: LICHTvormgevers B.V., Doring

Kochi

Poggenpohl kitchen studio, New York

Architect: Nicholas André, Saint-Ouen

Berlin NEO is the new label of adidas for Young Fashion. The NEO stores are a stage both for customers and products, dynamically bathed in the contrast-building light of Optec spotlights with colourful accents added by ERCO’s vychrome LED lighting tools. The stores underscore the possibilities afforded by LED technology in terms of brilliance and variability.

adidas NEO Store Tauentzienstraße, Berlin

Stuttgart The architects at Labor Weltenbau have developed a shop concept for optical products company Zeiss Optik that will be implemented worldwide. In their hometown of Stuttgart, Kästner Optik was fitted out in equal manner – bright and reflective surfaces illuminated by Quintessence downlights and wallwashers, Compact 100 recessed luminaires, and Pancan and Optec spotlights.


Stuttgart The new city library, Bibliothek 21, is a literature temple. Light defines the “heart”, an empty contemplation room, as well as the gallery hall above it, with its vertical illumination for the book shelves. For a perfect result, the designers opted for Quintessence wallwashers for metal halide lamps.

Bibliothek 21, city library at MaxKinder Platz, Stuttgart Architect: Prof. Eun Young YI, YI Architects, Nijmegen Lighting design: Cooppaning, Utrecht www.i.stuttgart.de/infra/bibliothek
Bright prospects

Photographers Marco Grob, David Hiepler and Fritz Brunier documented staff and sites of Swiss building materials group Holcim AG worldwide. The exhibition was illuminated using Light Board LED spotlights.

Berne Museum of Fine Arts, "Industrious" Exhibition
2 March – 6 May 2012
Photographer: Howard Brundrett, Basel
www.kunstmuseumbern.ch
BSH headquarters Netherlands, Hoofddorp

Cradle to Cradle, a concept for sustainable and ecological architecture. As a company, BSH Bosch Siemens Hausgeräte has consistently implemented this concept in its new sales office building in the Netherlands – right down to the aspect of efficient and comfortable lighting using ERCO’s LED technology.

If it can be said that every nation has certain characteristics, these are no doubt shaped by their respective environments. The Netherlands owe large parts of the Dutch territory today to its age-old wrestle with the North Sea. Many people in this small, yet densely populated and highly productive country maintain a pragmatic attitude to nature, a clear commitment to environmental and climate protection and – as many parts of the land are, after all, below sea level – an appreciation of good design as a means of popularising technical and social innovations for acceptance.

It should therefore come as no surprise that German chemist and environmental visionary Michael Baumgart successfully set up a “Cradle to Cradle” (C2C) chair at the Erasmus University in Rotterdam, where he conducts further research into this approach to ecological production, which he developed in partnership with American architect William McDonough. McDonough has now put the C2C concept into practice at the first office park of its kind in the Netherlands – in Hoofddorp, a town founded in the 19th century in the Polderlands, south of Amsterdam. An anchor point of the site dubbed “Park 20/20” is an office building designed by McDonough, which serves as the Dutch sales office of German home appliance group Bosch Siemens (BSH), but also as a showroom and an interpretive experience of the company’s Bosch, Siemens (BSH), but also as a showroom and an interpretive experience of the company’s Bosch, Siemens, Neff and Gaggenau brands.

Sustainability has long since been a corporate objective of BSH, yet the new building takes it a step further still with C2C. Here, the aim is to recycle all used materials or return them to the natural environment. With features such as high efficiency, long life and easy recyclability, ERCO’s LED lighting tools qualify for illumination of this project – but equally because of their superior light quality. This, in turn, helps to drive greater acceptance of ecologically sound solutions among the building users.

The interior design was devised by D/Dock in Amsterdam. Its design concept combines the ultimate experience of the BSH brand with a unique work environment, themed around the aspects of ecology. This aesthetic union results in a welcoming place for visitors that radiates a sense of calm and openness. Optimal lighting, tactile materials, soft colours and flexible design elements throughout underline this approach – clarity on the whole, with attention to detail. The cooking school in the building shows just how flexible this concept really is. Here, the different brand appliances can be swapped with each other in next to no time, so that the facility can be shared by all brands. Flexible lighting tool, such as spotlight and track systems, are integrated effortlessly into this environment.

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Other efficient lighting tools, used alongside different types of LED spotlights, include LED recessed luminaires from the Quintessence range, but also luminaires from the Compact 100 range with compact fluorescent lamps. Their purpose is to provide situation and perception-oriented lighting. Efficient visual comfort as a leading principle maintained at ERCO fits ideally in this project with the cradle-to-cradle concept of the building, helping to present the BSH brands and products in an attractive and future-oriented light.

* Cradle to Cradle® and C2C® are registered trademarks of McDonough Braungart Design Chemistry (MBDC). Further info at: www.mbdcom.com
The presentation area of the high-quality StudioLine range of Siemens appliances is also illuminated using Logotec LED spotlights mounted on a suspended track system. Spotlight lens systems in Spherolit technology are adjusted to the format of their target surfaces without spill light to produce striking contrasts with optimum efficiency.

Exhibits, materials of the furniture elements and decorative objects are shown off, as the rough ceiling retreats into the dark.

A Living Green Wall across the four storeys of the atrium is a symbol of the ecological nature of the architecture. Common areas such as conference rooms or staff cantinas are positioned around this sector. Mounted on track systems freely suspended in the room, the narrow-beam Logotec LED spotlights bridge even large distances between luminaire and target surface.

The brand experience of Bosch, Siemens, Gaggenau and Neff extends over the lower two levels of the building. Lines of sight throughout the atrium contribute to the open, inviting character of the building.

Oval flood
ERCO’s LED lens systems with Spherolit technology produce an oval flood beam as one option, which is suitable for the efficient illumination of long objects or surfaces, but also produce light strips for wide luminaire spacing.

The auditorium is used both for internal purposes and for public events – from marketing training through to jazz concerts. In this area, Logotec LED spotlights with oval flood characteristic help to model the physical make-up of the wall panelling without causing glare.
Planning practice with LED: “100% LED is a realistic vision”

When the economic crisis hit in 2008, the young Lord Mayor was also keen for transparency, also to the Chamber. Closed doors, the foyer and chamber converge into a single room for the Lord Mayor and his team. The room to hand. At the same time, when we got to the detailed lighting design with Stefan Hofmann, all options were still open in terms of exact definition. Which brings us right to the point – transparency inside the building. Separated by glass walls, the foyer and chamber converge into a single room for the Lord Mayor and his team.

Martin Krautter: How did the contract come about, was there a competition?

Gunter Fleitz: No, we were directly contracted for the project. We had a number of projects in Schorndorf, the most recent ones were a radiology practice and a care home. At the opening, we were introduced to the Lord Mayor. He wanted to renovate the town hall with external experience and a new, uninhibited attitude. The good thing was that the Lord Mayor, the Town Councillor for Buildings and Construction and the head of the Building Department all knew what we expected and were all on the same page. What specifically were your clients looking for?

Gunter Fleitz: The functional requirements did not change substantially. We have a variety of complex uses, but we did not want to design a multifunctional room as a sort of “jack of all trades and master of none”. Special focus was given to creating a stately entrance and transparency, also to the Chamber. Closed sessions required the option of appropriate discretion. Relatively early on, we presented a visual concept that would considerably change the character of the room. Our clients were highly enthusiastic about it, and it allowed us to show them what the concept could offer.

Martin Krautter: Which brings us right to the point – transparency always has a lot to do with lighting. How did you come to cooperate with Stefan Hofmann as a lighting designer?

Gunter Fleitz: We had already worked on a restaurant project together. We had urged our clients to hire a lighting designer. Our basic interior design concept included initial ideas on lighting, which we expanded together. We often use 3D software for our designs, so very early on we had visual simulations of the room to hand. At the same time, when Stefan Hofmann came into the picture, feel that LEDs would compromise on light quality. What is the light quality of the LED like in terms of visual comfort or glare?

Stefan Hofmann: A single, finger-sized lamp previously produced a very high lumens package. To achieve the same luminous flux you would need a grid of several light-emitting diodes. Only in conjunction with a sophisticated lens technology, such as ERCO’s, would you get the result you are looking for. We questioned various scenarios with LED spotlights in this project. For instance, it is possible, from a height of 10m, to illuminate the desktop of a single workplace precisely? The result shows that yes, it is possible. glare control is ensured using a completely different technology, but it is available. These are areas, however, where we could not install LED technology because the right luminaires here simply don’t exist – ceiling washlights, for example, or recessed floor uplights.

Martin Krautter: You actually calculated these costs?

Stefan Hofmann: Yes, and compared them to the acquisition costs. In 2010, LED lighting systems cost around a third more than conventional lighting. We presented these figures with the architect to the Lord Mayor. We were quite frank and said it would take a few years to pay off these additional costs, but he would have a building that demonstrates responsibility and progressiveness. It didn’t take long for him to decide on LED lighting for the whole project.

Martin Krautter: Did you ever, at any point during the planning, feel that LEDs would compromise on light quality?

Gunter Fleitz: No, but I must admit I have never really seen the light at night. What really impressed me was the colour rendering and the very agreeable light colour everywhere.

Stefan Hofmann: Similarly to low-voltage halogen lamps, LEDs are point light sources. Their superb integration into optical systems produces intense and brilliant light exactly where it is needed. You can see under the Wedding Chamber, for instance, that it works really well with LED lighting.

Martin Krautter: What is the light quality of the LED like in terms of visual comfort or glare?

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underdeveloped. ERCO was the pioneer, and that ultimately tipped the scale for us. Fortunately, ERCO also quite recently changed the light colour from warm white to really warm white.

Martin Krautter:
That means we use LEDs with a colour temperature of 3000K in the project?

Stefan Hofmann:
Yes, and you get ideas what the next step could be. We already have custom-built luminaires in the project that are fitted with a mix of LEDs in 3000K and 4000K. We can therefore either produce warm light or complement daylight with neutral white light as needed. We want to see the same for downlights and wallwashers, that they can easily be switched between these light colours. Finally, a directional luminaire with a light colour of 3000K that gets warmer still when dimmed – that would be perfect for restaurants, for instance.

Gunter Fleitz:
I think it’s only nuances that are currently still missing. When we had a recent tour of the project with the Lord Mayor and the Town Councillor for Building and Construction, we could still sense some nervousness about the generally half-finished work, but they did say, “The light is superb, sensational, let’s hope the rest is the same...”

Martin Krautter:
That’s what one likes to hear!

Gunter Fleitz:
It’s true, there were still things not quite finished yet, but you could sense the ceremonious atmosphere already.

Hendrik Schumacher:
The colour rendering properties are also excellent. The colour scale with its beige and brown tones is well-served with this colour temperature.

Martin Krautter:
The town hall has not been officially opened yet, what phase are we currently in?

Gunter Fleitz:
The offices on the upper floors are now moving back in. Official business in the town hall will resume on Monday, but not on the ground floor yet. The grand opening is scheduled for 8 October.

Martin Krautter:
Mr Hofmann, you have already seen the lighting at night – what is your opinion?

Stefan Hofmann:
It is exactly as we had imagined. The light of the downlights illuminating the various areas is intense and brilliant, but also highly uniform. The same goes for the directed light. The change from conventional lighting to LED sources was a success – it works. It was a rewarding project and helped us gain further experience. We will know in future projects what wattages, what characteristics, what systems to use.

Hendrik Schumacher:
You are starting to get a feel for LEDs?

Stefan Hofmann:
It only works when you have good architecture. When you trust each other, listen to one another – then you can work in fruitful partnership.

Gunter Fleitz:
It also helped that we weren’t too short of time. The dry construction work on the float­ing ceiling panels was time critical. The lumi­naires and the mounting rings needed to be available on time here. It all worked out fine though. Or, when we were talking beam char­acteristics, you said, “I had actually imagined it a little softer...”

Stefan Hofmann:
The 10° option was simply too narrow in a few places, where the ceiling was much lower because of ceiling joints. There were, however, other lens options, from spot and flood through to wide flood. We tried these and ended up changing them.

Martin Krautter:
You believe architecture with 100% LED is a positive, realistic vision?

Stefan Hofmann:
Absolutely, yes.

Gunter Fleitz:
This project has certainly paved the way here.

Martin Krautter:
Thank you both for the interview and for the nice closing comment!
ERCO uses all its experience as a “Light Factory” to shape advanced LED technology into lighting tools with simplicity, logic and intuition, enabling all users to implement efficient visual comfort. 100% LED – this approach not only applies to our new products in 2013, which we will introduce on the following pages. 100% LED also describes the future potential that ERCO wants to open up to any designer and user of light in architecture – for creative, effective and economical lighting concepts.

More from 1 January 2013 in the Light Scout: www.erco.com/products

New products 2013
100% LED

Compact LED
- Highly efficient lens system
- Excellent visual comfort with 30° cut-off angle
- Exceptionally shallow recess depth
- Wide flood for effective and uniform, brilliant general lighting in retail or administration applications

Quadra
- Highly efficient lens system
- Excellent visual comfort with 30° cut-off angle
- Clear and elegant design with square cover glass
- Exceptionally shallow recess depth
- Wide flood for general lighting in foyers, restaurants, hotels or homes

Logotec with LED
- A new, larger size offers increased lumen packages
- Interchangeable Spherolit lenses for different beam characteristics
- For differentiated lighting concepts in salesrooms
- Dimmable (trailing edge and with potentiometer on the spotlight), DALI versions available

Optec spotlights with LED
- New LED generation with higher output and compact light heads
- Three sizes and wattages
- The range includes LED projector spotlights with framing attachment for crisp-edged beams
- Interchangeable Spherolit lenses for different beam characteristics
- Universal spotlight range for applications ranging from salesrooms through to museums
- Dimmable (trailing edge and with potentiometer on the spotlight), DALI versions available

Pollux spotlights with LED
- Cylindrical, highly compact light head made of cast aluminium
- The range includes LED projector spotlights with framing attachment for crisp-edged beams
- Interchangeable Spherolit lenses for different beam characteristics
- For applications in retail, gastronomy, galleries or homes
- Dimmable (trailing edge and with potentiometer on the spotlight), DALI versions available

LED
- 12W – 24W
- 1080lm – 2400lm
- Narrow spot, spot, flood, wide flood
- For applications in retail, gastronomy, galleries or homes
- Dimmable (trailing edge and with potentiometer on the spotlight), DALI versions available

LED Spotlights
- 4W – 4W
- 360lm – 2400lm
- Narrow spot, spot, flood, wide flood

Lens wallwashers
- 6W – 24W
- 540lm – 2400lm

Downlights
- 6W – 40W
- 720lm – 4000lm
- Wide flood, oval flood

Projector spotlights
- 6W
- 540lm – 600lm

Downlights
- 8W – 24W
- 720lm – 2400lm
- Wide flood, oval flood

Floodlights
- 6W – 24W
- 540lm – 2400lm

Lens wallwashers
- 6W – 24W
- 540lm – 600lm

- Oval flood for linear lighting in traffic zones or for merchandise tables
- Connection-ready with ideal driver combination
- Dimmable (trailing edge)
- DALI versions available

- Oval flood for linear lighting in traffic zones or for merchandise tables
- Connection-ready with ideal driver combination
- Dimmable (trailing edge)
- DALI versions available

- Oval flood for linear lighting in traffic zones or for merchandise tables
- Connection-ready with ideal driver combination
- Dimmable (trailing edge)
- DALI versions available
New products 2013
100% LED

Quintessence double-focus downlights with LED for slanted ceilings
- Discreet general lighting for high rooms with slanted ceilings (up to 30° tilt)
- Optimum visual comfort due to matt black anti-glare cone
- Tiltable and rotatable suspension for beam direction perpendicularly downwards
- Highly efficient LED lighting technology with collimators and Spherolit lenses
- Connection-ready with ideal driver combination
- Mounting ring in Quintessence system design, mounting without tools

Quintessence LED directional luminaires narrow spot
- Beam angle <10° for precise accentuation even from large distances
- High visual comfort due to Darklight reflector
- Highly efficient LED lighting technology with collimators and Spherolit lenses
- Connection-ready with ideal driver combination
- Mounting ring in Quintessence system design, mounting without tools
- Rotatable through 360°, up to 30° tilt

Trion ceiling washlights with LED
- Archetypal design
- Two sizes and wattages
- Highly efficient LED lighting technology with collimators and Spherolit lenses
- Various beam characteristics
- Dimmable (trailing edge)
- DALI versions available

Parscoop with LED
- Wallwashers/ceiling washlights with sealed housings for outdoor applications
- Archetypal design
- Highly efficient LED lighting technology with collimators and Spherolit lenses
- Wide and deep beam characteristics
- Two sizes and wattages
- Dimmable (trailing edge)
- No spill light on mounting surface

Compact LED recessed luminaires
- For economical general lighting in entrance zones and covered outdoor areas such as arcades, passages or atriums
- Highly efficient lens system
- Two beam characteristics
- Excellent visual comfort with 30° cut-off angle
- Sealed housing in protection mode IP65
- Dimmable (trailing edge)

Compact LED surface-mounted luminaires
- For economical general lighting in entrance zones and covered outdoor areas such as arcades, passages or atriums
- Highly efficient lens system
- Two beam characteristics
- Excellent visual comfort with 30° cut-off angle
- Cylindrical housing for surface mounting, made of aluminium, double powder-coated
- Dimmable (trailing edge)

Double-focus downlights
6W – 24W
540lm – 2400lm
Size 4, 7
Flood, wide flood

Directional luminaires
2W – 24W
180lm – 2400lm
Size 3, 4, 5, 7
Narrow spot, spot, flood

Ceiling washlights
12W – 24W
1080lm – 2400lm
Wide beam, deep beam

Wallwashers/ceiling washlights
24V – 48V
2160lm – 4800lm
Wide beam, deep beam

Downlights
8W – 40W
720lm – 4000lm
Wide flood, oval flood
Size 3, 4, 5, 7, 8

Surface-mounted downlights
16W – 24W
1440lm – 2400lm
Wide flood, oval flood
Size 4, 5

LED Double-focus downlights
6W – 24W
540lm – 2400lm
Size 4, 7
Flood, wide flood

LED Directional luminaires
2W – 24W
180lm – 2400lm
Size 3, 4, 5, 7
Narrow spot, spot, flood

LED Ceiling washlights
12W – 24W
1080lm – 2400lm
Wide beam, deep beam

LED Wallwashers/ceiling washlights
24V – 48V
2160lm – 4800lm
Wide beam, deep beam

LED Downlights
8W – 40W
720lm – 4000lm
Wide flood, oval flood
Size 3, 4, 5, 7, 8

LED Surface-mounted downlights
16W – 24W
1440lm – 2400lm
Wide flood, oval flood
Size 4, 5
Advice and logistics for perfect light

Anyone who starts a project will usually be aiming to find the best solutions. The material has to be just right, the design must be optimal, the lighting perfect. The end result should be unique and distinctive, bearing the hallmarks of the creative mind behind it, the one who fought so passionately for his or her ideal. Achieving this goal for architects and lighting designers often means involving ERCO and its products in the planning.

The most obvious place to start today – accessible anywhere and that 24/7 – is the Light Scout at www.erco.com. ERCO’s website provides an overview of products, projects, specifications and also gives quick access to the contact data of the many competent regional experts in ERCO’s worldwide lighting network. Trained employees in 35 cities are at hand to answer personally and competently all question clients may have right from the point of planning. They are there to provide advice during the planning stage, assist with lighting aspects throughout the whole project.

Events and seminars

These turn ERCO showrooms into meeting places for local lighting and architecture scene. The showroom is designed to make it possible to explain the concept of “tune the light”: to design the qualities of light in terms of time and space.

Reliability of the manufacturer’s data is crucial to the designer. To this end, ERCO attaches great importance to exact and reliable values from its laboratories for all photometric data made available for use in DALI and other software with specific formats such as IES. ERCO’s mission is to provide solutions in the project process. This includes helping clients with luminaire focusing, commissioning a lighting control system, or with maintenance aspects. This service to the client ensures that the promised performance of the luminaires and the control system, and with it, the effect in the room, is guaranteed at all times in every respect. A further important aspect in the building process is the logistics. Nothing is worse in project planning than when planned materials are not available at the agreed time or when they are constantly in the way because they have been delivered too early. ERCO can help plan delivery dates to the day. Planning and deliveries as a result mesh seamlessly – minimising logistical problems.

Irrespective of the specific project, our regional teams see it as their role to embed the issue of architectural lighting in the minds of architects and lighting designers, but also contractors and owners, through seminars and other events. Many ERCO showrooms and offices around the globe have, as a result, become meeting places for local lighting and architectural specialists.

“The effect of light in space is difficult to express in words – it must be experienced. The ERCO showrooms provide ideal, flexible facilities for such demonstrations.”

The showroom is designed to become the local light symbol. As well as giving technical support, ERCO also lends a helping hand in the lighting design. Our lighting advisers in the offices and showrooms see their role as being “consultants to the consultant” – providing professional advice to designers in all matters relating to lighting technology and in each individual project phase. If challenges are encountered, there are also many experts available at ERCO’s head office who can be consulted to work out a quick solution – always with a view to ensuring the success of the whole project.

Visualisations and simulations are increasingly instrumental in the planning process.

On-site support

ERCO employees on site lend a helping hand when it comes to focusing the luminaires correctly, and commissioning the lighting control system. This ensures that all components are perfectly coordinated.

Project management

The offices provide ideal facilities for project meetings. Your ERCO contact is trained to support clients through all the stages of a project.

Contact

The global ERCO team looks forward to getting to know you. You will find the addresses of our offices and showrooms at:

www.erco.com/contact

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For clients, the major advantage of this sales network is to be able to see products in action on site, to experience light in the showroom or in existing architecture. Designers no longer need to trust catalogue data blindly; rather, the lighting effect can be observed and compared first hand. ERCO will even stand up to a comparison with competing products in mixed sampling inspections – these, after all, illustrate most vividly the superior performance of ERCO’s own products.

The effect of light in space is difficult to express in words – it must be experienced. The ERCO showrooms provide ideal, flexible facilities for such demonstrations.

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These turn ERCO showrooms into meeting places for the local light and architecture scene. The showroom is designed to make it possible to explain the concept of “tune the light”: to design the qualities of light in terms of time and space.
Focus

Efficient LED lens systems for downlights: Technology

In developing the new LED lens system for general lighting, ERCO focused specifically on factors such as compact functional style, shallow depth, simple system design, efficiency and visual comfort. To provide optimum glare control in downlights for conventional lamps, the lamp is recessed from the mounting surface in an almost concealed position – with a corresponding height of the luminaire. The much smaller dimensions of LED packaging are already advantageous, and combined with the new lens system and glare control, this makes for exceptionally compact, yet highly efficient luminaires with good visual comfort. In order to minimise loss due to the refractive index for reflections as well as the transitions between several lenses and air, the lens system combines two components – the collimator to focus the LED light and the lens for the required light intensity distribution. The very principle of the one-piece lens system enhances the efficiency even in contrast to other LED downlights with light mixer and Darklight reflector or a two-piece system with collimators. While the flexibility of interchangeable Spheroït lenses is a crucial advantage in spotlights, it is less significant in downlights meaning that efficiency can become the primary goal. Glare control is ensured through a flat cross baffle. It reduces the view of the LED with its high luminance and improves the visual comfort.

Efficient LED lens systems for downlights: Application

The size of a luminaire factors as highly in its efficiency as does its price and operating costs, since compact luminaires save space and ease the planning process. Earlier luminaires with a very flat design had occasional issues with glare control due to their depth. The cross baffle of the Compact LED has a cut-off angle of 30° resulting in good visual comfort despite the reduced depth. Direct glare is minimised and the attention of the observer is directed onto the illuminated surface.

The two different light distributions of Compact LED solve different lighting tasks. The wide, round beam is used for the efficient general lighting of surfaces and spatial zones, particularly for product presentations. The oval beam, on the other hand, is suitable for the illumination of rows of tables, counters or pathways with wide luminaire spacings. The system design of the compact LED recessed luminaires presents a variety of options from medium to high lumen packages thanks to different luminaire sizes and technical adaptation to suit the architecture. Round luminaire apertures feature in Compact LED and square ones mark Quadra. Compact LED is also available with an increased IP rating for outdoor or damp environments.

Thomas Schielke

Double focus

Efficient LED lens systems for downlights: Application

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The business idea to focus a fashion label solely on down jackets took a detour via Japan to bring with it architecture designed by Tadao Ando – so goes the story of Duvetica in a nutshell. In 2005 Giampiero Vagliano and Stefano Rovoletto, two experienced fashion designers, launched the label and started sales in Asia with great success. The recipe: superior European quality of material and workmanship, ethically correct origin of the raw down material from the Périgord – and trendy, unusually figure-hugging cuts that have revolutionised the conventional image of voluminous down. Duvetica now operates four shops in Tokyo, Kitzbühel, Courmayeur and Milan, each designed by Tadao Ando, the Japanese master of architectural minimalism. Special feature of the latest store in Milan's Via Santo Spirito, a side street of the Via Montenapoleone fashion mile – the premises are illuminated throughout using LED technology supplied by ERCO – as a sustainable investment with optimum light quality.

The premises spread across two levels, each having around 220m² of space, placing the store on the ground floor and a showroom for resellers in the basement. No design would be complete without Tadao Ando's trademark – immaculate exposed concrete in Tatami grid style. Two side walls made of this material divide the room and together with light plastered ceilings and dark grey cement flooring provide a neutral background for the brightly coloured jackets, which are displayed effectively in backlit shelved niches. The grazing light added by Nadir recessed floor luminaires brings the otherwise clinical concrete surfaces to life, as brilliant light accents produced by the Logotec LED spotlights give prominence to the shiny material of the down jackets. Technical details such as the large flat screen monitors, track and recessed ceiling luminaires integrate seamlessly with the architecture. In this way, the interior masters a delicate balancing act expertly – the atmosphere even in summer is cool enough to create the mood for down jackets; it is, on the other hand, so fascinating in terms of clarity and precision that the brand image is firmly implanted in the mind of shoppers.

Versions of vertical illumination: The Duvetica shop highlights the importance of using illuminated walls to define architectural space. Uniform wallwashing emphasises the exposed concrete walls, wallwashing with focal emphasis effectively sets off the rows of jackets. Horizontal illumination produced by LED downlights directed downwards is used sparingly, for instance in the area of the ramps and stairs between the levels.
Get well soon: In a ranking of the 100 top hospitals released by the Dutch daily newspaper “AD”, the Ikazia hospital in Rotterdam took second place in 2011. The rating reflects purely the hospital’s medical merits, yet it scores equally highly on patient satisfaction. This may well have something to do with the fact that great importance is placed here on architecture and interior design. As early as the 80s the hospital began to cooperate closely with the architectural firm EGM based in Dordrecht, one of the largest Dutch firms with special focus on healthcare facilities. In the 90s, EGM planned renovations and extensions including new wards, an auditorium and a chapel. The most recent building project involved the urbanistic calling card of the hospital – the main entrance with the accident and emergency department, both of which were opened on 31 October 2011.

It is clear how the image of hospital architecture has changed over the last few years: the new entrance suggests more of a modern hotel lobby than the dark portals of old hospitals with their linoleum flooring and distinct smell of disinfectant. Even from afar, the glass façade grants insight into the foyer; wall surfaces inside are illuminated by wallwashers for an attractive effect in the dark, creating the impression of a transparent cube shining from within. Bright room surfaces not only make for a pleasant appearance; their high reflectance also contributes as much to energy efficiency as does the use throughout of ERCO’s LED recessed luminaires from the Quintessence system.

Cozy, comfortably furnished waiting areas with their reduced lighting level contrast with brightly illuminated traffic and service zones. The warm white light of the LED downlights and wallwashers has a high colour rendering factor, further contributing to the creation of a feeling of wellbeing. The lighting concept helps visitors find their bearings providing functionally suitable lighting for the various spatial zones, but also defines the architectural space itself – intelligent planning and modern LED lighting tools blend to ensure efficient visual comfort.

Calling card of an institution: After dark, the new main entrance presents itself to the city as a shining glass cube. To produce this effect, the designers used uniform wallwashing inside the building.

The entrance section guides the stream of visitors to the various hospital wings. Technology and appearance remind more of a modern hotel or airport than of the hospital architecture of times gone by.

Friendly reception with human scale: For patients and their visitors in particular, the positive attitude of the service staff is as important as a pleasantly designed environment.

Quintessence LED Depending on the ceiling height, the designers worked with square Quintessence downlights and firms wallwashers with 27W or 40W LED modules in warm white. The result proves that ERCO’s LED recessed luminaires meet even in such major projects – allowing liberal and, therefore, economical luminaire spacing.

Architecture and lighting design: EGM Architecten B.V., Dordrecht
Photos: Thomas Mayer, Neuss
www.ikazia.nl

The light in the comfortably furnished, cozy waiting areas is muted. A further factor adding to the wellbeing is the good colour rendering of the warm white LEDs in excess of R90 with a colour temperature of 3000K.
Royal rooms with opulent ceiling frescoes, marble fireplaces, elaborate stuccowork and polished terrazzo floors – Milan’s Palazzo Anguissola at Piazza Scala is a neo-baroque palace hailing from the early 19th century. It is also a prime example of the wealth of historic architecture worthy of preservation in Italy, a country with a rich cultural heritage. As luck would have it, the building today is used as a museum of art. The Gallerie d’Italia is hosted here in these rooms as well as in the adjoining Palazzo Brentani – presenting masterpieces of 19th century Italian art from the collections of the Intesa Sanpaolo bank and the cultural foundation of banking origin, Fondazione Cariplo. Drawing on a rich stock of thousands of masterpieces from various collections, the gallery’s curator Fernando Mazzocca selected around 200 works for the exhibition. Now, a wider audience can rediscover masters such as Antonio Canova, Francesco Hayez, Angelo Inganni or Giovanni Boldini, who were primarily known better to specialists of the era.

Milan-based architect and designer Michele de Lucchi and his office aMDL took the opportunity to renovate and redesign the facility. Out of respect for the building’s fabric, de Lucchi placed many of the works on movable walls or stands reminding of easels. Even the lighting submits to considerations of preserving cultural heritage; at the same time, lighting designer Adriano Caputo was able to convince the clients of opting for a future-proof and energy-efficient LED lighting solution. The result proves, once again, just how well ERCO’s LED technology integrates even in historic structures while perfectly performing its functional tasks – alone and in combination with original chandeliers or other decorative luminaires. As is often found in historic buildings, many of the rooms in the Gallerie d’Italia have all-round stucco friezes at the upper wall end, ideal for the inconspicuous mounting of track. In harmony with the room’s geometry and the exhibition concept, the track is flexibly equipped with Optec LED spotlights. Producing different beam characteristics, these accentuate the works of art, but also ensure uniform illumination of the decorated ceilings to provide soft ambient lighting and lend an airy feeling to the room. In terms of controls, ERCO’s LED spotlights are usually available either with DALI interface or for connection to trailing edge dimmers. Highly efficient LED luminaires thus offer even more energy savings while providing the museum technicians with greater scope for meeting the requirements of both conservation and scenographic effects.

Architect: aMDL Architetto Michele De Lucchi S.r.l., Milan
Lighting designer: Studioillumina, Arch. Adriano Caputo, Rome
Photos: Thomas Mayer, Neuss
www.gallerieditalia.com
He knows Scandinavia’s art market like the back of his hand, but he is just as much at home in the international art scene - Kaj Forsblom, founder and senior director of Helsinki’s gallery of the same name. Since its opening in 1977, the Forsblom Gallery has transformed into the leading exhibition venue in Finland and a major centre for contemporary arts in Northern Europe. Forsblom represents such well-known international artists as Julian Schnabel, Tony Oursler, Joel Shapiro, Günther Förg and Stephan Balkenhol, but draws equal attention to its space of more than 600m² and accommodating as many as 500 guests at vernissages, Forsblom represents such well-known international artists as Julian Schnabel, Tony Oursler, Joel Shapiro, Günther Förg and Stephan Balkenhol, but draws equal attention to its space of more than 600m² and accommodating as many as 500 guests at vernissages, Forsblom Gallery has transformed into a high room with natural lighting, followed by a succession of cabinet-style gallery rooms. The interior design was placed in the hands of Gluckman Mayner Architects, an office whose founders are well described as absolute insiders of the art and gallery scene. The New York-based firm had already worked with legendary gallery owners such as Larry Gagosian for the Dia Center for the Arts in Chelsea or the Museo Picasso in Malaga. To provide a neutral background for the ten changing exhibitions offered by the gallery during a year, the interior follows the modern tradition of the “white cube”. Gluckman Mayner devised a space with extremely reduced detailing and clear, white wall areas complemented by light Douglas fir timber provided by Danish specialist Dinesen for the floorboards and the built-in furniture. In terms of lighting, the interior designers were convinced of ERCO’s approach to opt straight for future-proof LED technology as an energy-efficient solution in museum quality throughout the premises. The gallery’s lighting concept makes intensive use of the space-defining effect of wallwashing, applied in traffic zones, as an example, or to the back wall of the reception area. The curatorial requirements in the exhibition rooms are efficiently and flexibly met by Optec LED spotlights on 3-circuit track. Thanks to the inter-changeable Spherolit lenses, the arrangement and alignment of the spotlights is as quick and easy as changing their beam characteristic.

For Forsblom Gallery, Helsinki

LED light for art: Forsblom Gallery, Helsinki

Optec with LED: Perfect lighting solutions for galleries. The diffused, diffuse daylight is complemented by the warm white light of the LED spotlight and wallwashers. Using interchangeable Spherolit lenses, Optec with LED is available with beam characteristics ranging from spot, flood, wide flood and oval flood to wallwash.
The secret to the culinary success of pizza all across the world may well be its integrative power – everyone joining in eating the same thing, and yet the choice of different toppings ensures an almost endless array of customised versions to suit every taste. With such versatility, the savoury flat pie soon conquered the USA as Italian immigrants arrived in the country, only then to be exported from there all over the world as a logistically perfected product of system gastronomy. Today, the Pizza Hut restaurant chain has more than 11,000 outlets in 95 countries. The company is continuously developing new products and concepts, further stimulating the appetite for pizza. The various new-look test restaurants that have been opening across England since 2011 are just one example – the first of these was found in the Touchwood shopping centre in Solihull near Birmingham.

Launched with a “Prime Time” motto, the new restaurant concept was devised in partnership with brand agency Checkland Kindleysides. Similar to prime time television, the aim was to see families and friends gather, not around the TV, but a steaming hot pizza, to share and enjoy time together. The atmosphere – so the briefing said – was to be both sociable and stimulating to encourage patrons to try out more unusual combinations from the new menu modules.

The consultants, designers and interior decorators of Checkland Kindleysides were extremely experienced in the field of visual comfort and, in combination with the intensive use of projections in the form of lettering or decorative light patterns, to draw attention. The ambient lighting provided by Quintessence LED downlights with a mere 7W in the rooms may be somewhat more low-key, yet is equally as important. The luminaires’ brightness level is deliberately muted to produce a strong contrast with the accent light using a contrast ratio of 1:10. Quintessence LED directional luminaires deliver flexible accent light, their Darklight reflector ensuring a high level of visual comfort and, in combination with the downlights, a uniform ceiling appearance. Also new in the restaurant concept is “free unlimited salad with every main course” – the salad bar appropriately highlighted by a ring of Logotec LED spotlights in spot characteristic. Their brilliant light with excellent colour rendering ensures that the food looks fresh and appetising; a demonstration of the high standard of ERCO’s LED technology.
Backlights

100% LED: New ERCO showrooms
Since the Light+Building trade fair last April at the latest this much is clear – ERCO has a range of LED lighting tools that is wide and diverse enough to implement practically any architectural lighting concept in impressive quality. A logical conclusion is, therefore, that the same slogan that was used for the trade fair stand should now be applied to ERCO’s showrooms worldwide: 100% LED. The appropriately redesigned first showrooms have now been opened in such cities as Paris, Frankfurt and London. They demonstrate vividly what current LED lighting technology can provide – whether as spotlights, wallwashers, downlights or varychrome luminaires for dramatic coloured accents. Contact your local ERCO lighting expert to arrange a visit:

www.erco.com/contact

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Swedish Lighting Award 2012 for the Götaplatsen, Gothenburg
The Swedish Lighting Award is an annual event arranged by Sweden’s lighting organisations together with the magazine Ljuskultur. As in the previous two years, ERCO contributed once more to the success of this year’s winning project, the Götaplatsen in the heart of Gothenburg. The redesign of this square had been hotly debated in Gothenburg for many years. Despite the fact that prominent public buildings, such as the art museum and the theatre, surround it, the space offered little in terms of appeal as a meeting point or sense of security. The new lighting concept has changed all that and has been widely welcomed by the general public. A central element in the concept devised by planning services provider Ramboll Sweden AB is vertical illumination on the façades as spatial borders, generated by Tesis wallwashers for metal halide lamps. Congratulations to all involved in the project!

Lighting design, architecture and electrical design: Ramboll Sweden AB
Photos: Thomas Mayer, Neuss
www.ljuskultur.com

Museum Kunstpalast, Düsseldorf:
El Greco and Modernism
More than 180,000 visitors took the opportunity from 28 April – 12 August 2012 to learn about the inspiring effect which El Greco as a painter born on Crete around 1541 had on artists of early Modernism, before he died in Toledo in 1614. Düsseldorf’s Museum Kunstpalast presented around 40 works by El Greco from major European and American collections. These works were placed opposite some 100 creations by modern artists who had studied the pictorial world of El Greco: Cézanne, Picasso and Delaunay, but also Beckmann, Kokoschka or Franz Marc told of their great fascination with the painter. ERCO’s Logotec LED spotlights played a significant role in the concentrated, dramatic presentation of the artwork, combining sustainability with qualities that are ideal for the illumination of art.

Architecture: O.M. Ungers, Cologne
Exhibition design: Andreas Naterzé, Bastian Erhard (SMKP Düsseldorf)
Photos: Thomas Mayer, Neuss
www.smkp.de

Dramatic illumination without spill light, excellent colour rendering without UV and IR components for optimal protection of the exhibits: Logotec LED spotlights present El Greco’s masterpieces in the best possible light – with minimum energy consumption.

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The building devoted to art of the 19th and 20th centuries was radically renovated over the past few years. This includes an entirely new presentation concept, and also the decision to use primarily ERCO’s LED spotlight for illumination. Here, in Room 7, with its dedication to the “Survival of the myth from neoclassicism to symbolism” and at its centre the monumental marble sculpture “Hercules and Lichas” by Antonio Canova (1757–1822). Two rows of other Greek deities – some of the statues created by students of Canova – are grouped on either side almost as if observing the battle scene.

Logotec
The Logotec LED spotlights, floodlights and wallwashers feature ERCO’s proprietary LED optical system with collimators and Spherolit lenses. This results in precise and highly efficient distribution without spill light providing a wide variety of beam characteristics – from wallwash and oval flood through to rotationally symmetrical light distributions including wide flood and narrow spot, which is used here with a beam angle <10° from a height of 9.60m – with a mere 4.5W per spotlight.