

LIGHTPOINT.

An ETAP publication | 2012-1



Modular light system Kardó with LED+LENS™

light+building 2012:
ETAP introduces five
innovative LED series

LED+LENS™:
technology for energy-efficient,
comfortable lighting

Extended warranty period:
from now on 5-year warranty
as standard

ETAP 
EXCELLENT LIGHTING, SAVING ENERGY

ETAP introduces full general lighting LED range

light+building: LED breakthrough attr

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LED+LENS™ file

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acts numerous visitors

ETAP introduced its new LED luminaires for general lighting at the international light+building fair in Frankfurt. ETAP generated great interest and visitors were drawn by its solution to widely deploy LEDs in general lighting. "We have forced a breakthrough with our LED+LENS™ technology," according to Wim Sliepenbeek, ETAP's international sales director.

The biennial light+building fair is the world's leading trade fair for lighting and intelligent buildings. One of the themes of the latest edition, which ran from 15 to 20 April in Frankfurt, was energy efficiency. "We took advantage of the opportunity to introduce our new LED luminaires," states Sliepenbeek. "As a result we are currently able to provide a fully fledged in-house LED solution for any lighting issue, which visitors realised immediately, since the new products attracted a lot of interest."

LEDs everywhere

ETAP presented five new LED series: U7 recessed luminaires, R7 suspended and surface-mounted luminaires, the architectural Kardó 60 line, the E1 LED and E7 for large, open spaces. "Remarkable solutions in outstanding designs," Sliepenbeek explains. "Everyone noticed that we went for the gold in terms of high power LEDs with individual lenses, a technology we refer to as LED+LENS™, which enables us to push the envelope with respect to energy efficiency, with highly comfortable and hard-wearing solutions for nearly all working environments."

Further information on the new series and the technology used can be found on the following pages of this Lightpoint.



EMERGENCY LIGHTING WITH OLEDs

ETAP introduced its first emergency lighting concept using OLEDs at light+building. OLEDs are organic LEDs in the shape of wafer-thin foils whose surface develops soft and diffuse light. The foils are applied to glass or another transparent material. In the coming months ETAP will heavily invest in the further development of OLED sign luminaires.

light+building

LED+LENS™, the technology behind the breakthrough



Impossible to miss: the new LED+LENS™ technology is prominent in ETAP's new general lighting range. This is a conscious choice, since thanks to a combination of high power LEDs and sophisticated lens technology we are able to develop high-performance, energy-efficient and comfortable solutions for the most diverse general lighting needs. And consequently achieve the long-anticipated breakthrough of LEDs in general lighting.

What is LED+LENS™?

So far ETAP has been using low power LEDs or LED modules combined with reflectors or diffusors in many luminaires. The new luminaire series, however, makes use of individual high power LEDs, each fitted with its own lens.

Why LED+LENS™?

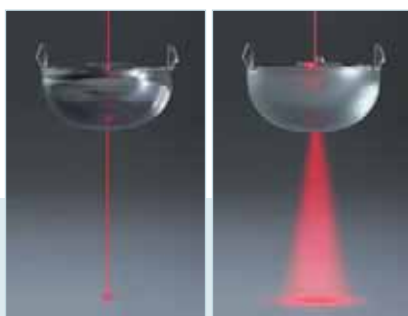
The secret lies in the combination of high-performance high power LEDs that provide sufficient luminous flux in order to efficiently illuminate large spaces and sophisticated lenses, optimising light distribution and adapted to the specific application. With this new technology we are able to develop LED luminaires for the most diverse environments such as offices, warehouses,

industrial workshops, schools and public buildings. We always associate energy-efficiency with high visual comfort.

Even more economical

LED+LENS™ luminaires have a very high luminous efficacy. We always select the highest performance LEDs, we limit light loss between LED and lens, we avoid multiple reflections and transmission loss in the lenses and pay a lot of attention to the choice of lens material and to the thermal design. We only combine our LED+LENS™ solutions with those drivers on the market that satisfy our stringent criteria in terms of reliability and efficiency.

With LED+LENS™ we furthermore maximise use of the LED light depending on the application, since we are able to perfectly aim and shield the light of the high power LEDs using a lens. Our engineers designed several different light distributions in order to achieve the desired effect depending on the



> The patented surface texture of LED+LENS™ (right) softens the bright LED light.



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Type-calculation:

Office measuring 10,8 x 11,4 m, with 20 U7 luminaires with wide-angle lenses, 1,39 W/m²/100 lux.

Corridor measuring 2,4 x 18 m, with 4 U7 luminaires with wide-angle lenses, 2,1 W/m²/100 lux.



LED+LENS™ FILE

application and conditions: narrow-angle, wide-angle, very wide-angle, asymmetric reflectors, etc. We only illuminate that which is necessary and no energy is lost to the undesirable scattering of light. And we keep both energy consumption and installed power as low as possible. Lastly,

the LED+LENS™ technology can be perfectly teamed with our ELS integrated light control systems (daylight dependent control), MDS (motion detection) and EMD (multisensor), allowing for additional energy savings of 40% and more.

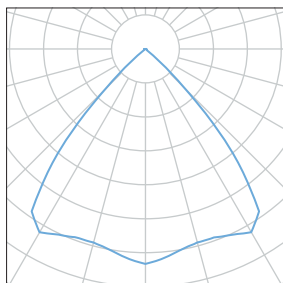
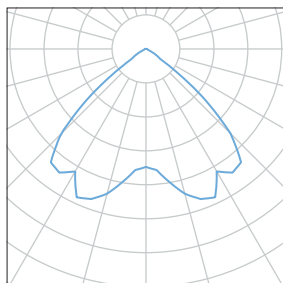
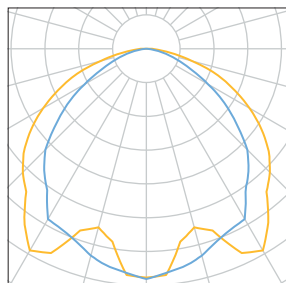
Optimal comfort

LED+LENS™ technology also provides high visual comfort. The lenses reduce the average luminances and are also provided with a special, patented surface texture that further shields and softens the bright LED light. The result: low UGR value (≤ 19 for office applications, ≤ 22 for others) and low average luminance ($L \leq 1000 \text{ cd/m}^2$ for $\geq 65^\circ$, in line with EN12464). And all this without significantly decreasing lighting efficiency. In addition, the lenses are discreetly countersunk in various applications in order to eliminate sharp contrasts on the luminaire surface. The countersunk lenses therefore not only result in the new luminaire series' typical, unique design, but also contribute to optimal comfort.

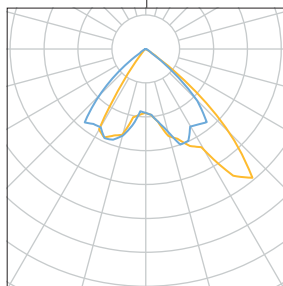
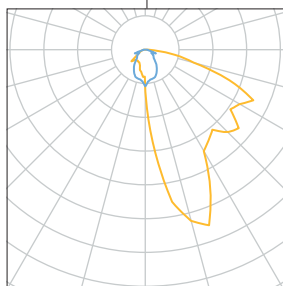
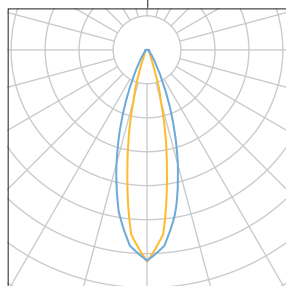
very wide-angle

wide-angle

medium wide-angle



LED+LENS
TECHNOLOGY



narrow-angle

wallwasher

asymmetric

Long life expectancy

A 5-year warranty applies to the new series just as for our other products. Actual life expectancy (including driver) is much longer, up to 50,000 hours*, since all LEDs used are tested in our own test labs. We only select LEDs with low depreciation, critical to long effective lifespan. We also test the luminaires' thermal management in our labs, ensuring that the light source remains properly cooled, thus lasting longer.

* Please contact your ETAP consultant for more detailed and exact information about the depreciation of our LED luminaires.



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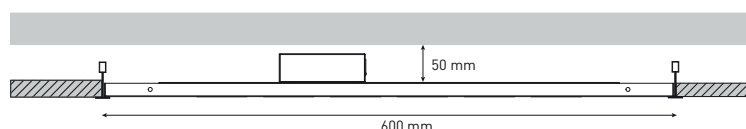
A fully fledged LED solution for any environment

LED+LENS™ FILE

In one fell swoop, ETAP introduces five new LED series for general lighting. The U7, R7, Kardó 60 with LED and E7 series are energy-efficient, comfortable, versatile and can be easily combined with light control systems. Even emergency lighting can be integrated practically seamlessly. Along with the updated E1 series, they complete our LED range for general lighting. We now offer fully fledged LED solutions for all environments: offices, stores, reception rooms, schools, hospitals, warehouses and industrial facilities.



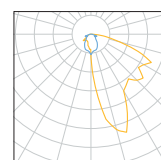
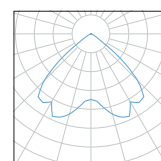
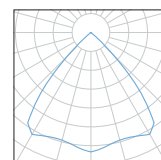
Design: EER Architectural design



U7 – recessed luminaires

U7 is a series of square and rectangular recessed luminaires on the basis of LED+LENS™ technology (see page 4). U7 provides solutions for all types of office spaces (from individual office to office landscape), schools and public spaces.

U7 boasts unique design, is perfectly finished and fits into any decor. The luminaires take up a mounting depth of only 50 mm (100 mm for integrating into plasterboard ceilings).



U7 PROPERTIES

- Material: steel plate
- Colour: white structure paint (RAL 9003). Grey (RAL 9006) upon request.
- Colour temperature: 3000 K or 4000 K
- Luminous flux: 2500 to 5000 lm
- Luminous efficacy: 82 lm/W
- Dimensions: 596 x 596, 621 x 621, 296 x 1196, 296 x 1246, 296 x 1720
- Light distribution: medium wide-angle, wide-angle and wallwasher
- Integrated light control: ELS, EMD, MDS (upon request)
- Integrated emergency lighting: K9 module (upon request)





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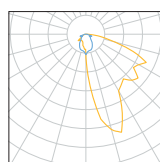
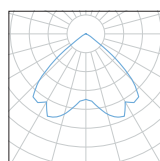
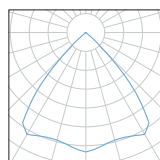


LED+LENS™ FILE

R7 surface-mounted luminaire (design: EER Architectural design)

R7 – surface-mounted and suspended luminaires

R7 is a series of ultra slim surface-mounted and suspended luminaires, which provide both direct and indirect light (in suspended version) on the basis of LED+LENS™ technology (see page 4). R7 is available as individual or line luminaires. The area of application is as broad as that of the U7: general lighting in highly diverse environments. The suspended version comes with a 30% uplight as standard.



R7 PROPERTIES

- Material: steel plate
- Colour: white structure paint (RAL 9003) and grey (RAL 9006). Black (RAL 9005) upon request
- Colour temperature: 3000 K or 4000 K
- Luminous flux: from 2500 to 5000 lm
- Luminous efficacy: 82 lm/W
- Dimensions individual luminaires: 150 x 1500, 220 x 1500, 150 x 1920
- Light distribution: medium wide-angle, wide-angle and wallwasher
- Integrated light control: ELS, EMD, MDS (upon request)
- Integrated emergency lighting: K9 module (upon request)



R7 suspended luminaire

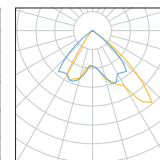
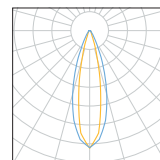
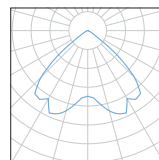
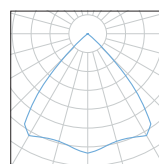


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E7 – light line system for large spaces

E7 is a series of suspended and surface-mounted luminaires on the basis of LED+LENS™ technology (see page 4), especially designed for large spaces. Typical applications include shop floors, storage areas and shopping centres. E7 can be installed individually or in line. We will tailor the lines to your project's specific needs. Several suspension sets are available.



E7 PROPERTIES

- Material profile: steel sheet, housing: aluminium or steel sheet
- Colour: white (RAL 9003)
- Colour temperature: 3000 K or 4000 K
- Luminous flux: 3000 lm to 12,000 lm
- Luminous efficacy: 82 lm/W
- Dimensions: 78 x 1000, 78 x 2000
- Light distribution: narrow-angle, medium wide-angle, wide-angle and asymmetric reflector
- Integrated light control: ELS, EMD, MDS (upon request)
- Integrated emergency lighting: K9 module (upon request)



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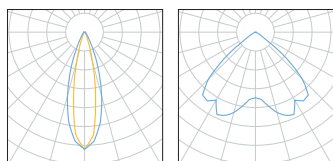
E1 PROPERTIES

- Material: Housing made from fibreglass reinforced polyester, PMMA or PC cover cap, PUR seals, stainless steel quick-release latches and mounting brackets.
- Colour temperature: 4000 K
- Luminous flux: from 3000 to 4600 lm
- Luminous efficacy: 80 lm/W
- Dimensions: 1592 mm x 148 mm x 117 mm, 1292 mm x 148 mm x 117 mm
- Light distribution: narrow-angle, wide-angle
- Integrated emergency lighting: K9 module (upon request)

LED+LENS™ FILE

E1 – high protection factor luminaires

The new E1 version with LED is also based on LED+LENS™ technology (see page 4). E1 luminaires are dustproof and waterjet-proof (IP65 with plug & play connector) as well as impact-resistant (IK03 for PMMA and IK08 for PC), which makes them suitable for highly demanding applications in various industrial environments, even in heavy industry, chemistry and agro-industry. There are also specific versions for cold rooms available.





EXCELLENT LIGHTING
SAVING ENERGY

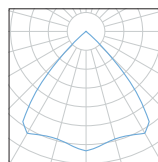
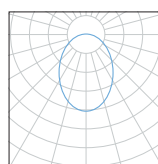


Modular light system Kardó, the architectural line

From now on Kardó will also be available with LEDs. We can fit Kardó 60's minimalist and custom-made profile with:

- Lighting modules with diffuser optics for the creation of light lines without interruptions.
- Lighting modules with LED+LENS™ technology (see page 4) for optimal comfort and energy-efficiency.
- Uplight modules to illuminate ceilings, integrated into the main profile.

Lighting modules can be applied to any Kardó 60 version; surface mounted, recessed and suspended lines.



With countersunk lenses (EER Architectural design)



With diffuser

KARDÓ 60 WITH LED PROPERTIES

- Material and colour:
 - Profile: extruded aluminium in white (RAL 9003) or anodised aluminium
 - Lens module: white (RAL 9003) or aluminium grey (9006 RAL)
- Colour temperature: 3000 K or 4000 K
- Luminous flux (per m):
 - Uplight: 1000 lm
 - Diffuser optics: 1500 lm
 - LED+LENS™: 2000 lm
- Luminous efficacy:
 - Diffuser optics: 72 lm/W
 - LED+LENS™: 75 lm/W
- Dimensions:
 - LED module: 1250 mm
 - Diffuser module: 1200 mm
 - Uplight module: 1000 mm
 - Profile: always custom-made
- Light distribution: diffuse and medium angle
- Integrated light control: ELS, EMD, MDS (separate module)
- Integrated emergency lighting: K9 module (separate module)

Would you like to find out more
about the new LED series?
Visit our website at www.etaplighting.com



ETAP now offers a 5-year warranty as standard



ETAP now offers a 5-year warranty on nearly all its products. "The extended warranty period gives customers peace of mind," states General Manager Lighting Chris Van Bellegem. "Since we obviously haven't made this decision frivolously."

Make your life easier in the long term

The 2-year extension after the 5-year warranty applies to all luminaires (LED and fluorescent), all emergency lighting and batteries in autonomous emergency lighting. A 5-year warranty also applies to systems such as ESM, EBS and ELM provided the customer orders a maintenance contract from ETAP. The 5-year warranty is now the norm. "During this period the customer will have no unexpected maintenance costs," according to Van Bellegem.

Dependable components, professional production

The decision to extend the warranty was carefully thought-out by ETAP. "We are able to offer this warranty since we are sure of our quality," explains Van Bellegem. "We know from experience that our installations will run flawlessly for at least that period, which for starters is due to the fact that we work with reputable suppliers who deliver hard-wearing components. We have the knowledge and necessary lab infrastructure to check the components and verify durability. In addition, we optimise the design in order to improve life span. For example, in LEDs we pay a lot of attention to heat regulation. We measure the LEDs' junction temperature in normal operating conditions and on the basis of this measurement and life span measurements of the LED manufacturer we determine the luminaire's minimum expected life span.



Components and luminaires are tested in real life conditions, nothing is ever left to chance.



R6: Contemporary design, widely applicable

With the R6, ETAP launches a new series of fluorescent luminaires for offices and schools, among others. The luminaires are fitted with an elegant, square housing and are available in surface and suspended versions. What makes them unique is that all versions (uplight, wallwasher, one- or two-lamp version, etc.) are possible within the same housing.



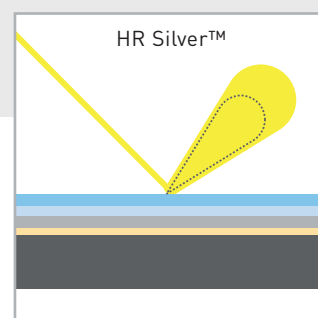
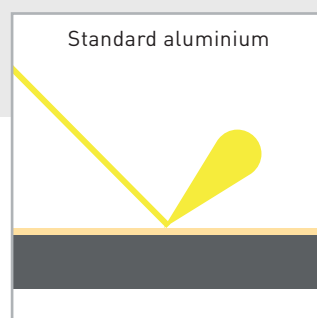
For any architectural style

The R6 series is suitable for various general lighting applications. The surface and suspended versions have the same housing with rectangular profile (120 mm x 98 mm), available in two lengths (1200 mm and 1500 mm). The luminaires boast minimalist design and subtle trim. Thanks to its contemporary design the R6 can be integrated into any architectural style.

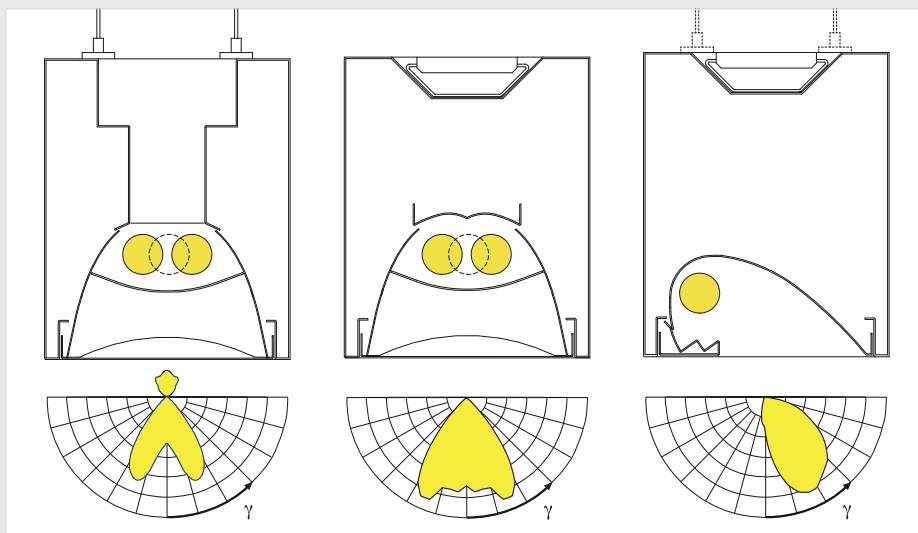
Efficient and pleasant

The housing on the R6 accommodates one or two fluorescent lamps. The well thought-out reflector design and HRSilver aluminium ensure high efficiency (up to 94 %).

The suspended versions are always fitted with uplights. Due to the reflector's unique design, no additional lamp is required for the uplight, which results in optimal distribution between indirect (34 %) and direct lighting (66 %) without annoying bright patches on the ceiling.



2 reflection strengthening layers
purest silver
bonding layer
aluminium base material



*Suspended version
with direct and indirect light*

*Surface-mounted version
with direct light*

Wallwasher

Wide area of application

R6 is highly suitable for offices and schools but also provides stylish comfort in other environments. Despite its compact luminaire base the R6 provides wide-beam light distribution, allowing for large intermediate distances. In addition, the EQUILUM®

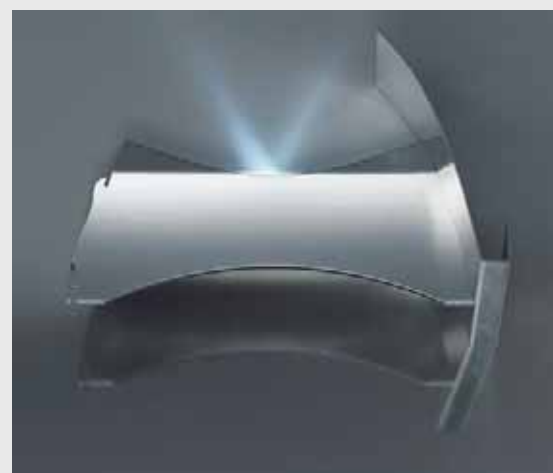
reflector has a UGR below 19 and luminance under 1000 cd/m². Furthermore, each R6 can be effortlessly teamed with daylight control and motion sensors. K9 modules or emergency units are also available.

Easy to install and maintain

R6 is easy and quick to install. The surface-mounted version is always fitted with an integrated cable channel, it is also possible on request to provide the end caps with cable entry points. For the suspended version several suspension sets exist, with 2 or 4 suspension points, equipped with a quick adjustment system. In both versions the reflector is fitted with brackets and hinges for easy lamp replacement.



R6 wallwasher lighting a blackboard



[further information: www.etaplighting.com]
brochure: downloads > brochures > R6



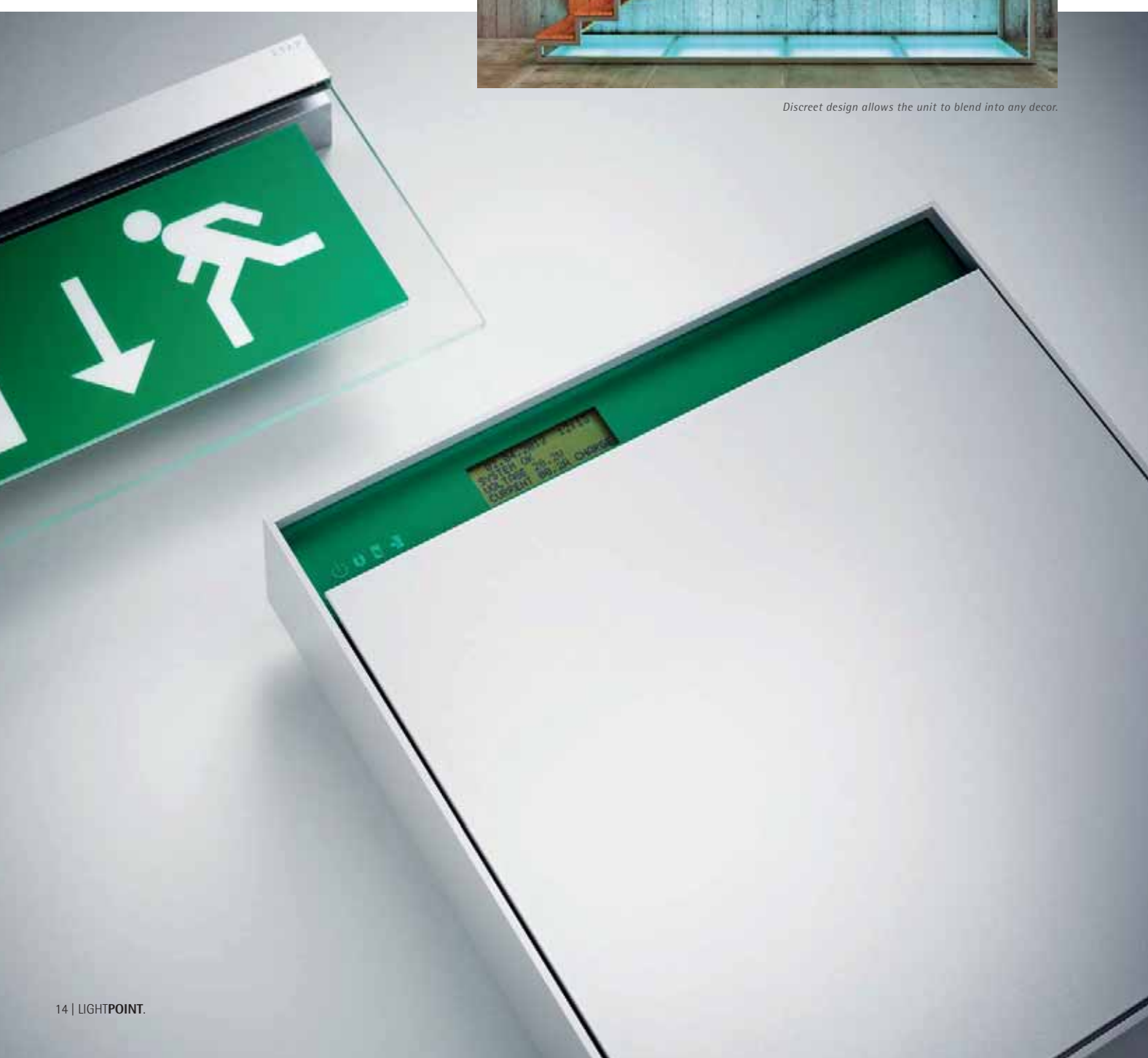
EBS Compact for LED emergency lighting

Discreet and simple central battery system

ETAP has developed a new central battery system for LED emergency lighting. As the name suggests, EBS Compact is a space-saving unit, which can even be easily installed in an office space or corridor. It is nonetheless a highly versatile system.



Discreet design allows the unit to blend into any decor.





Smart design choices

EBS Compact owes its simplicity to two basic assumptions. One: the system is aimed at energy-efficient LED emergency lighting. Two: it is designed to supply emergency lighting within a single fire compartment. These choices allowed the development of a highly compact and lightweight unit without the need for expensive and complex fire-resistant wiring.

Compact, lightweight and discreet

The unit is so compact that it can be easily suspended from a wall. ETAP designers have therefore produced a discreet design that blends in with any décor. EBS Compact can obviously be installed in a separate technical space, but also, and just as easily in office spaces or corridors, clearly visible and easily accessible.

Easy to plan, order and install

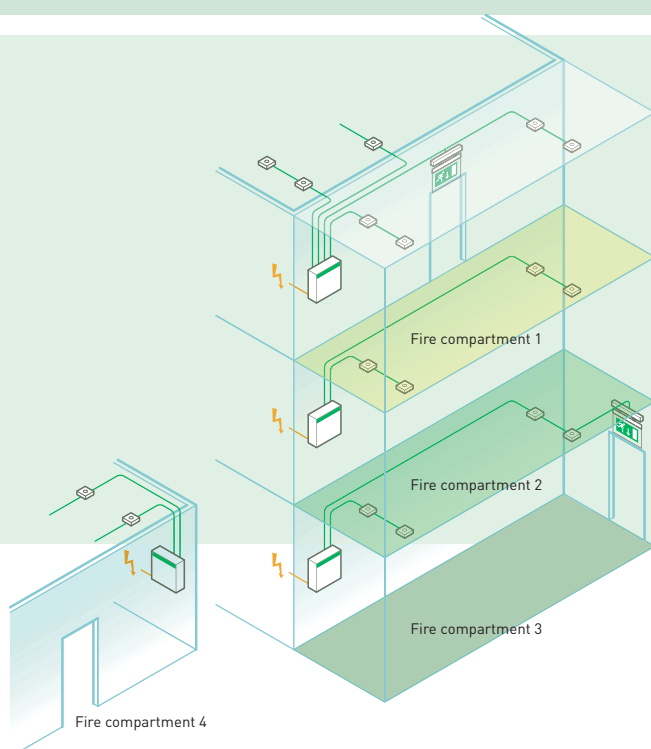
Since EBS Compact works per fire compartment, it is simple to plan and also highly suitable for building extensions. EBS Compact is full-option: no pre-configuration is required. In addition, the circuits work with FLEX technology, which allow permanent and non-permanent luminaires to be connected to a single circuit, which simplifies installation and saves on wiring. EBS Compact is also easy to install: one technician can do the job and commissioning by ETAP is not required.



The handy brackets allow the unit to be installed by a single installer.

Centralised monitoring of individual luminaires

EBS Compact simplifies monitoring. We measure the effective light output of every connected luminaire and send it to the control unit in the system. EBS Compact immediately reports any faults. Battery inspection and maintenance also require less time, since the unit with built-in battery set is always within easy reach. EBS Compact can furthermore also be connected to ETAP Safety Manager (ESM), the central monitoring and control system for emergency lighting. For example, all units can be monitored by computer.



EBS Compact works per fire compartment and is therefore easy to plan and suitable for extensions.

[further information: www.etaplighting.com]
brochure: downloads > brochures > EBS Compact



Goes boasts first passive construction school in the Netherlands

Energy-neutral school proves to be very comfortable



Award
2011

*OdyZee recently received the
PassiefBouwen Award 2011.*

PROJECT SHEET

- Energy and Light Manager
- UT recessed luminaires in offices, study spaces, among others
- D1 downlights in sanitary facilities, among others
- Softlight luminaires in corridors, among others
- R4 suspended luminaires in classrooms
- E3 luminaires in gym
- E6 luminaires in storage room
- K7 emergency luminaires in corridors, among others
- K1, K2 and K3 emergency lighting



The energy-efficient suspended R4 luminaires with integrated uplight tie in perfectly with the acoustic ceilings.





In order to minimise energy needs the building was given a "skin" with an R_c insulation value of $10 \text{ m}^2\text{K/W}$.

The first energy-neutral school in the Netherlands was opened in Goes. The OdyZeeschool new construction was designed and built in compliance with recommendations by the PassiefBouwen Foundation. Innovative technologies keep energy consumption low. "The school building is not only sustainable, it is also very comfortable," according to project coordinator Koert Vahlkamp.

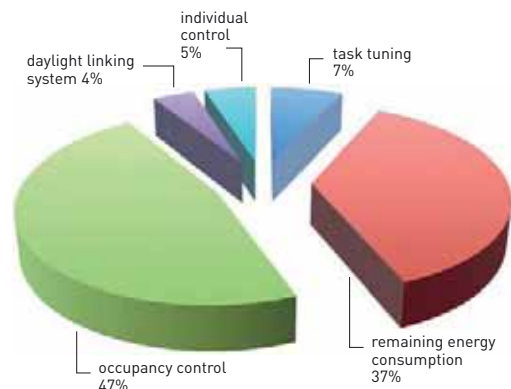
The client set the bar very high: The building had to be energy-neutral, with low energy needs, maximum use of solar heat and sunlight and its own energy generation. The building was given a "skin" with a high insulation value ($R_c = 10 \text{ m}^2\text{K/W}$) with 20 cm insulation in the walls, windows with triple thermal insulated glass and airtight door and window frames in order to avoid heat loss due to unchecked ventilation. Thermal management is monitored and seasonal. In the winter solar heat is let in as much as possible, in the summer it is kept out or only allowed in on the cooler north side. Use of daylight is maximised (see "Lighting: economical, pleasant and stimulating"). Solar panels and solar boilers fully cover the building's energy needs.

"The building is fully draught-free, which is ideal for this target group."

Special needs pupils, high comfort requirements

Zero energy does not result in concessions in terms of comfort. "As it happens, comfort was one of the basic assumptions," explains Vahlkamp. "Since OdyZee is a school for children with learning difficulties, primarily autism (ASS). These children are easily distracted by environmental stimuli and are extra sensitive to draught and temperature fluctuations, which is why passive construction was also the right choice. The uniform high insulation values for roof, walls, windows and doors provides an even, pleasant surface temperature. The ingenious balance ventilation makes the building fully draught-free. We also used soft colours, neutral materials, suitable lighting and acoustic ceilings and walls." With respect to the five quality criteria for the Frisse Scholen hallmark, OdyZee scores "very good".

SAVINGS BY THE ELM LIGHT CONTROL SYSTEM FOR ODYZEE



Lighting: economical, pleasant and stimulating

Given the targeted quality level the bids for each component were judged very critically. The same applies to lighting. Koert Vahlkamp: "ETAP had the best planned answer to our requirements in terms of light distribution and energy consumption. They developed a specially adapted plan with energy-efficient, fluorescent lighting with dimmable high-frequency ballasts and luminaires in discreet colours and materials. The classrooms for example, have suspended luminaires with integrated uplight, which tie in perfectly with the acoustic ceilings."

"The light control system reports exactly how much energy is saved where."

The lighting is also connected to a control system that dims and switches off the light wherever and whenever possible. Vahlkamp: "The light is adjusted on the basis of various measurement data such as time of day, amount of daylight, type of activity or detected absence. We are also able to adjust individually where necessary. One of the system's attractive details: it reports exactly how much energy is saved where, which is highly stimulating."



EXCELLENT LIGHTING
SAVING ENERGY



King Baudouin Foundation renovation makes a statement

Historic property to be highly energy-efficient



The close cooperation between architect and suppliers resulted in a remarkable achievement.

The renovation of the King Baudouin Foundation office building in Brussels was an ambitious project. The 18th century property had to offer comfort, be bright and transparent as well as highly energy-efficient. Yet its historic features had to be maintained. Reconciling fire and water? "We had to make many smart choices," according to Sébastien Petit of the Trio Architecture architectural firm.

The King Baudouin Foundation is an independent, pluralistic organisation, which supports projects and citizens who commit to a better society and who contribute to increased justice, democracy and respect for diversity. "The Foundation sets the example in our society," explains Petit. "Its Brussels office building is to reflect this, hence the brief to reconcile energy-efficiency with transparency and respect for existing architecture. Not an easy task, since old buildings are very draughty and have poorly insulated walls and roofs. New construction is much easier."



Optimising the structural works

The building's structure was unaltered, even the cabinetwork was maintained. Petit: "We have carefully sealed all cracks and gaps, the building is now nearly as airtight as a passive house. We have applied thick insulation layers to the walls and roof, in order to preserve the building's character. We have thoroughly studied all details in order to exclude condensation problems. To this end we closely collaborated with the Université Catholique de Louvain and with Xella, the supplier of the insulation material."

Bright, economical and aesthetic

The same close collaboration applied to lighting, a combination of Flare LED downlights and R4 suspended luminaires. "These luminaires are highly energy-efficient and perfectly integrated into our design in terms of aesthetics," states Petit. "ETAP for that matter has helped us to save even more. In the design we aimed for maximum daylight incidence in the offices. ETAP installed sensors that continuously measure the local daylight level. Their control system ensures that only the necessary spaces are lit, which results in major energy-savings. In addition, all luminaires are fitted with motion detection. In locations where no one is working, the light will automatically switch off."

ETAP also supplied the emergency lighting: K1 luminaires provide anti-panic and escape route lighting and K7 luminaires illuminate signage.

Further information on the King Baudouin Foundation can be found at www.kbs-frb.be

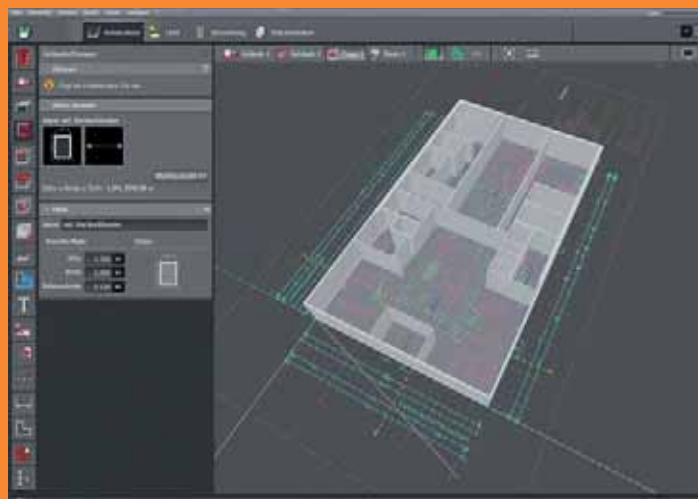
ETAP information service



DIALux Evo1 will be available from summer 2012 on. Visit www.dial.de for further information.

DIALUX EVO1

DIAL has presented the beta version of the DIALux light calculation program. With DIALux Evo1, lighting covering a complete building including outdoor vicinity can be optimised in a single project. Furthermore this version is more user-friendly and fully 3D, with new options for the photo-realistic visualisation of lighting solutions.



INSPIRING BROCHURE WITH ETAP'S LED SOLUTIONS

ETAP will soon issue a brochure that provides an overview of all our LED solutions, for both regular and emergency lighting. It is an inspiring lookbook in which one or more photos are shown of actual applications for each product, complemented with a concise recap of the most relevant technical data.



The PDF can soon be downloaded from www.etaplighting.com, or a print copy can be requested from your ETAP advisor.

NEW GREENLIGHT PARTNERS



A number of our customers have once again been awarded the GreenLight certificate in recent months. With the GreenLight programme, the European Commission aims to encourage private and public organisations to install energy-efficient lighting in their buildings. GreenLight Partners undertake to save at least 30% of energy on their lighting systems.

- Auchan Constanta (Romania)
- Bosch Venisieux (France)
- Colgate (France)
- ER2I Ingénierie (France)
- Furet du Nord (France)
- Lille town hall (France)
- Telenet (Belgium)

Would you like to become a GreenLight Partner?

ETAP will help you to secure the GreenLight certificate. We will conduct feasibility studies and will assist you in the application process. Interested? Please contact your ETAP advisor.

[further information: www.etaplighting.com]
brochure: downloads > brochures > GreenLight
website: www.eu-greenlight.org



Solvay Corporate Centre: efficient and stylish

Chemical giant Solvay has moved its Corporate Centre to Neder-Over-Heembeek near Brussels. The building was thoroughly renovated, which also included new lighting. Taking into account energy-efficiency, but also with a great sense of architecture.

"Solvay has always invested in efficiency," according to Technical Manager José Thomas. "That is what has made us big. At the same time the company attaches a lot of importance to human aspects such as comfort and quality of the workplace. Human beings perform better in a pleasant and beautiful working environment." In the Corporate Centre offices Solvay opted for ETAP's UT1 diffusers. "This is the company's business card," clarified Thomas. "We just wanted a little more refinement in the details here and a superior architectural finish, but nonetheless highly efficient and without budgetary adventures. And in this ETAP has helped us enormously. They were the only ones to be able to seamlessly integrate the luminaires into the climate ceiling with metal slats. The solution is

highly energy-efficient, also because it is fitted with daylight control and presence detection."

The central staircase is flanked by two columns of seven R8 luminaires each: a clever example of lighting architecture. "Illuminating a staircase is no easy feat," Thomas claims. "This solution provides even light distribution across the three floors."

Fresh and whimsical

The financial department's building was also given a facelift. "Here the architect abandoned the traditional restraint that applies to our offices," states Thomas. "It could all be a little fresher and more whimsical." The new approach is illustrated by the fanciful line pattern of Kardó 90 luminaires in the corridors, which appear to have been



Vertical R8 luminaires efficiently illuminate the central staircase and at the same time highlight the architecture.



The architect had the Kardó luminaires mounted on the ceiling in what looks like a random manner.

The UT1 high-efficiency luminaires with diffusers were seamlessly integrated into the ceiling.

mounted randomly on the ceiling. The clear Flare spots provide functional lighting in the individual offices enclosed in coloured Plexiglas.

"We dedicate a lot of time and attention to choosing the right lighting in our building projects," concludes José Thomas. "This renovation once again proves that we were in the right."

PROJECT SHEET

ARCHITECT: Archi PJ
INSTALLER: Conceptelec
LUMINAIRES INSTALLED:
- 17 x downlights
- 115 x Flare spots
- 144 x UT recessed luminaires
- 25 x Kardó
- 34 x R8
- 16 x softlights