LIGHTPOINT.

An ETAP publication | 2016

R2

COMFORTABLE
lighting in minimalist
DESIGN

K1: Minor size, major performance

Give short shrift to obsolete office lighting

Innovative lighting with Excellum2

ETAP
EXCELLENT LIGHTING, SAVING ENERGY

K1 recessed spot combines efficiency and functional design

Minor size, major performance

With the launch of the K1 recessed version, ETAP now provides an efficient and safe LED solution for each emergency lighting application (escape route and anti-panic lighting). The K1 recessed spot combines excellent performance and functional design. Thanks to the sophisticated light distributions, the number of luminaires can be reduced to a minimum.

The K1 is a particularly discreet luminaire thanks to its small dimensions (90 mm diameter). In addition, the LED is fully concealed by the polycarbonate housing. As a result the luminaire fits into nearly any architecture.

Efficient light distribution
The performance of the K1 is a lot less modest. For escape route lighting, one luminaire is sufficient at a height of 2.8 m to illuminate the escape route over a distance of 20 m with the required 1-lux illuminance.

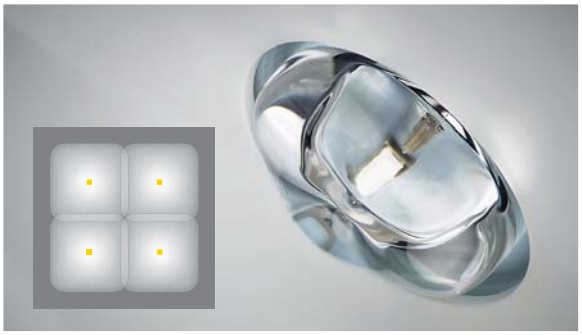
The version for anti-panic lighting creates a nearly square light distribution, which allow to illuminate large spaces particularly efficiently and without dark spots. The result is that a single luminaire at a height of 3 metres is all it takes to illuminate a 130-m² space (required illuminance 0.5 lux).

In both cases this outstanding performance ensures that you will satisfy legal requirements with the fewest possible luminaires.

Easy installation
The installation of the K1 is done in no time: after the electrical connection is made (through the driver), secure the luminaire into the ceiling using both springs. You can choose between through wiring or surface-mounted wiring.

Safety before everything
The follow-up and monitoring of the luminaires also takes place effortlessly. The K1 is available with the EST+ self-test, or can be connected to a central control system (ETAP Safety Manager and Excellum2).

Thanks to the square light distribution of the anti-panic lens, the entire space has enough light, without dark (and hence unsafe) areas.



Connect the luminaire through the driver, install it in the ceiling using both springs.



A LED SOLUTION FOR EVERY APPLICATION

K1. The K1 features a robust polycarbonate housing. Due to its discreet design it is suitable for any type of building and nearly any environment. The surface-mounted version is square, the recessed version can be either round or square (with mounting frame). The specially developed lenses ensure that the light is distributed optimally. For high spaces or workplaces with increased risk, a version is available with greater luminous flux (only surface-mounted).




K9. The K9 proves that emergency lighting can be both attractive and discreet. Minimalist design, compact execution and high-quality finish (metal and PMMA) ensure that the luminaires can be perfectly integrated into any environment. The K9 is available in white, aluminium white and an unpainted version, ideally suitable for concrete ceilings. The surface-mounted version is square, the recessed version can be either round or square.
With a housing of barely 20 mm, the K9 mini is the smallest emergency luminaire on the market. The K9 mini can be directly and seamlessly installed in the ceiling with or without rim.


K2. K2 is a dust and waterproof (IP65) luminaire that can take a punch (IK10). An excellent solution for emergency lighting in public spaces and in industrial indoor and outdoor applications. With its robust and easy to clean construction, it is also eminently suitable in environments with high dust concentrations and high levels of humidity.

LED MODULE. The compact LED module for escape-route and anti-panic lighting (barely 20 mm diameter) can be discreetly integrated into any luminaire. It makes for an excellent alternative to the emergency power supply units, which can have a negative impact on the service life of the general lighting.

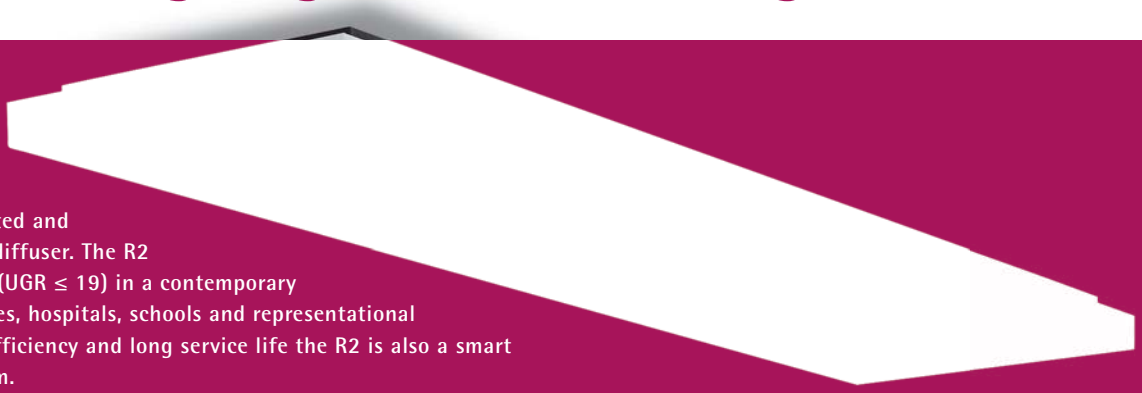
In 2003 ETAP was also one of the first lighting producers to market emergency lighting with LEDs worldwide. Since then we have developed LED versions for all our series one by one. We did not rush the project: just like for our fluorescent luminaires, the LED versions had to meet the most stringent requirements in the area of safety and efficiency.

The K1 recessed LED version is the latest step in this conversion. ETAP's emergency lighting range now consists of three full LED series, for both escape route and anti-panic lighting: a basic series, a series with high-quality finish and a series for industrial applications. You have plenty of choice in every series, depending on the application *(see adjoining overview)*. In addition, you can opt for autonomous luminaires, or luminaires supplied by a central battery. For monitoring and follow-up you can choose between the EST+ self-test or central management systems (ETAP Safety Manager or Excellum2). This allows you to be sure that your emergency lighting will work when it really matters.

[Further information at www.etaplighting.com]
downloads > brochures > K1

ETAP introduces series surface-mounted and suspended luminaires with diffuser

R2: comfortable lighting in minimalist design



With the R2 ETAP introduces an extensive LED series of surface-mounted and suspended luminaires with diffuser. The R2 offers comfortable lighting (UGR ≤ 19) in a contemporary luminaire, suitable for offices, hospitals, schools and representational spaces. Thanks to its high efficiency and long service life the R2 is also a smart investment for the long term.

Diffuser luminaires represent an asset in the lighting of offices, schools and public buildings. Logical, as they provide clear, uniformly illuminated spaces and guarantee pleasant and comfortable lighting without glare. After the U2 recessed version was introduced earlier, ETAP now launches the R2, an extensive range of surface-mounted and suspended luminaires with diffuser.

The slim, seamless housing and the clear glass cover give the R2 series a fresh, contemporary look, which comes into its own in any building. The series consists of square and elongated surface-mounted and suspended luminaires, which can be connected to clean light lines.

Comfortable and efficient

Traditional diffuser luminaires often compromise on efficiency to maximise comfort. However, the R2 combines comfort with outstanding performance, thanks to a combination of mediumpower LEDs and high-quality diffuser foil. The internal reflector with highly reflective paint and clear glass plate also contributes to optimal efficiency. These characteristics deliver specific luminous flux up to 140 lm/W, thus limiting the number of luminaires to be installed.

The combination of medium-power LEDs (1), highly reflective paint (2), highly effective foil (3) and clear glass plate (4) ensure optimal efficiency and comfort.

The R2 suspended versions are available with uplight, with clearly lit ceilings as a result.

The highly effective diffuser foil distributes the light evenly and softens the bright LEDs.

An ELS-sensor can be discreetly integrated into the housing's rim.

The high-quality LEDs guarantee high lumen retention. You will still retain 98% of the initial luminous flux (LLMF 98%), even after 50,000 burning hours.

Superior finish

R2 is a slimline, elegant luminaire with a superior finish. The diffuser with glass plate is fitted in a steelplate housing, finished with matte structure paint. At the top the housing narrows around the LED plate. This component comes in black as standard, which provides the luminaire with a slimline and recognisable design. In the suspended version the fabric cable is also black.

A sensor for daylight-dependent control or motion detection, or an LED module for emergency lighting can be discreetly integrated into the housing's narrow rim.

Ease of installation and maintenance

R2 luminaires are easy to install. First the ceiling module has to be installed, which also contains the driver. In the surface-mounted version the luminaire is secured to the module by means of brackets. Use the suspension set for the suspended version. If you mount the luminaires in line, one electrical connection is enough per line. Through wiring takes place through the driver housing.

The smooth cover plate on the R2 luminaires is made of clear glass and is easy to clean. The luminaire forms a single compact and closed unit, where dirt is kept at bay. Furthermore, the optic housing is fly-proof.

Extensive range

The R2 range provides a suitable solution for every application or space. Individual or in line, square or rectangular, surface-mounted or suspended, the choice is up to you. The R2 suspended versions are available with uplight, with clearly lit ceilings as a result. The R2 series can be further adjusted to your needs with the various colour temperatures and luminous flux (up to 5,500 lm).

[Further information at www.etaplighting.com]
downloads > brochures > R2

LED downlights boost efficiency

ETAP's downlight range has undergone a thorough revamp. The D1, D2 and D3 have recently been fitted with chip-on-board technology. Result: more efficient luminaires at a lower cost price.

LEDs are still in full development and are becoming increasingly efficient. After ETAP had integrated a new generation LEDs in the LED+LENS™ luminaires, resulting in an efficiency increase of approximately 10%, the D1 (recessed round), D2 (surface-mounted round) and D3 (recessed square), will now be updated.

Chip-on-board

LED downlights – previously fitted with an LED module – have recently been upgraded to the so-called chip-on-board (COB) technology, whereby several LED chips are placed together on one substrate, are interconnected electrically and are covered with a layer of phosphorus (in order to convert the blue LED light into white light). This light source is a whole lot more efficient and compact than the previous LED modules.

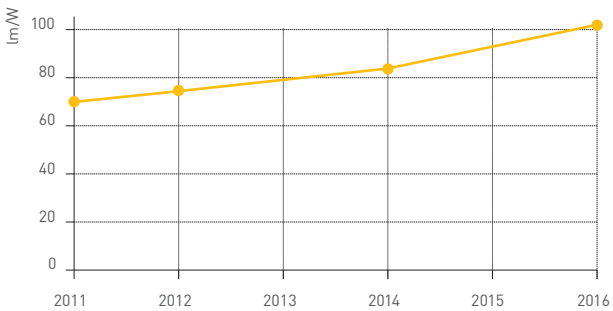
Nothing but advantages

"This update provides nothing but advantages to the customer," according to product manager Annick Boeckx. "Depending on the type of luminaire, the specific luminous flux increases by 20 to 30%. The LLMF (Lamp Lumen Maintenance Factor) after 50,000 h goes from 70 to 90%, while the cost price drops by 10 to 25%, depending on the model."

Extensive range

On the outside, no changes can be observed. The extensive choice of options is also the same. Specular or satin-anodised, smooth or superimposed trim... In addition, all downlights can be fitted with a daylight sensor or an LED module for emergency lighting. For extensive light control, the luminaires can be connected to the Excellum2 light control system.

Development of the specific luminous flux of D1 (1000 lm, 4000K)



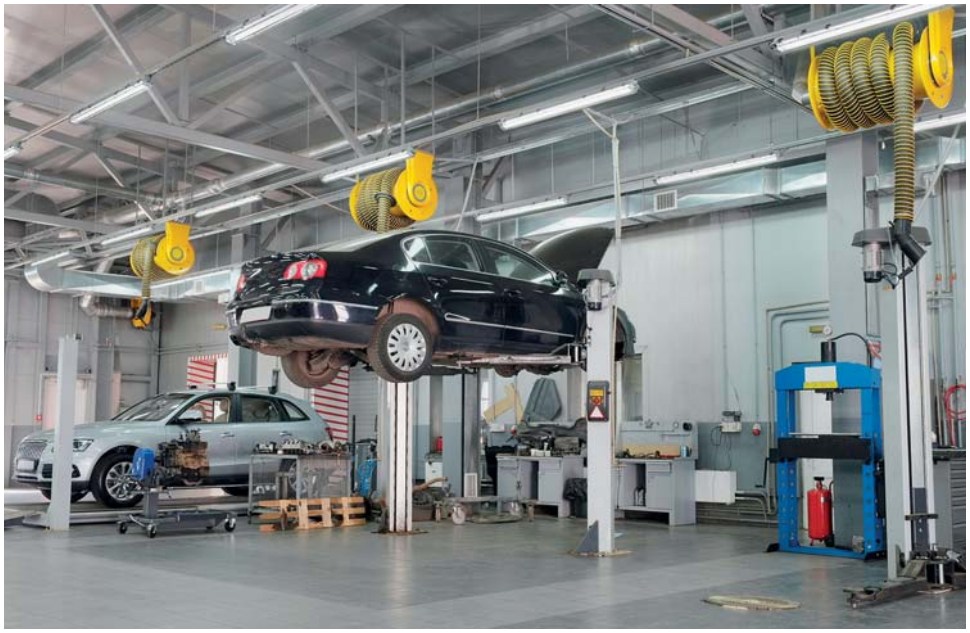
The D1 and D3 use the same heatsink. The COB technology permitted us to optimize thermic design.

[Further information at www.etaplighting.com]
Brochure: downloads > brochures > Downlights

E1 renovation module for demanding environments

Switching from fluorescent to LED has never been this easy

The E1 has been a reference for ages in the industrial luminaire segment with high protection factor. ETAP has developed a renovation module, which you can use to switch your existing E1 installation to LEDs quickly and efficiently.



With a protection factor of IP65/IK08, the E2 is at home in the most demanding environments, such as heavy industry, chemistry, humid environments, etc. With the retrofit LED module, ETAP has developed a simple solution to effortlessly switch to LEDs. You keep the housing and connection. Thus not only saving time, but also costs.

The E1 module light source consists of two LED lamps, who are resistant against gas corrosion (in compliance with corrosion test EN60068-2-60).

Energy savings up to 40%

The renovation of your lighting installation with LED modules offers nothing but advantages. LEDs are much more energy-efficient, enabling you to save up to 40% energy. In addition they have a longer service life than fluorescent lamps.
The switchover takes place in three easy steps *(see box)*. Only the reflector with the fluorescent lamps need to be replaced. A suitable LED alternative is available for each existing lighting installation, with the correct light distribution and desired lighting level. Depending on the situation, cost recovery is possible as of 3 years.

Fast and easy installation: Replacement takes place one to one in three easy steps.

Open the protective cover then remove the reflector with the fluorescent lamps and disconnect the plug.

Screw down the new brackets and connect the LED module (by simply plugging in).

Click the LED module in place and close the protective cover.

[Further information at www.etaplighting.com]
Brochure: downloads > brochures > E1 renovation module

Comfort and efficiency with US21 softlight

With the rectangular version of the US21, ETAP further expands its softlight luminaire range with LEDs. The US21 combines comfortable light with high energy-efficiency.

US recessed luminaires with softlight have quickly become a time-tested choice in our LED range. ETAP's softlights combine the best of two worlds: they create the natural lighting comfort for which softlights are known. At the same time, the advanced lighting technology provides an amazing energy-efficient solution.

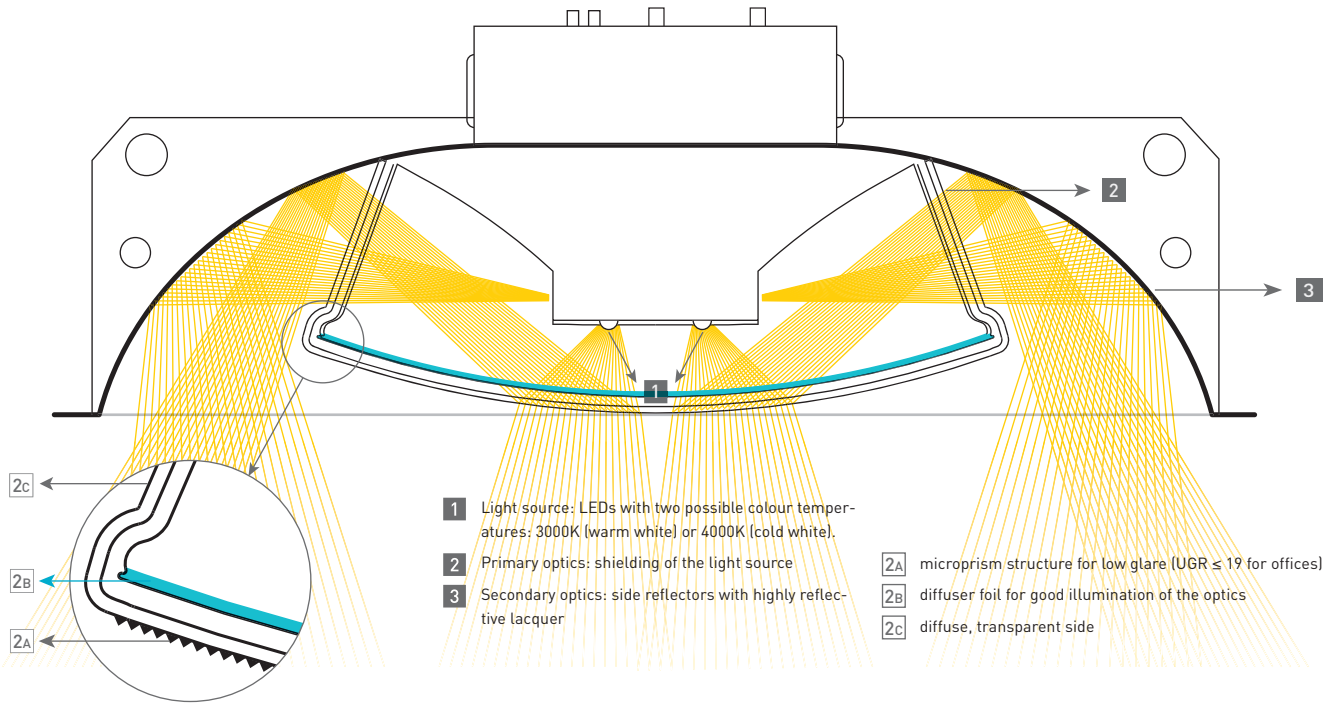
Low glare
Softlight luminaires distribute LED light for the most part through secondary optics (side reflectors with highly reflective lacquer) across the space. The light source itself is shielded by a combination of a microprism structure and diffuser foil. Result: low glare (UGR ≤ 19) and even illumination.

High efficiency
With a specific luminous flux of 135 lm/W, the US21 is one of the most efficient softlight luminaires on the market. Furthermore hardly any deterioration takes place: the LLMF (Lamp Lumen Maintenance Factor) is still 98% after 50,000 burning hours.

Extensive options
The US21 was designed for system ceilings with a modulation of 1200 x 300, but they can also be integrated in other ceiling using a mounting frame. Depending on the application two luminous flux are available: 2300 and 3600 lm.

The US21 is available with integrated ELS daylight sensor or EMD multidetector, which combines daylight control and motion detection. The LED module for emergency lighting can be integrated into a special end cap.

Dust- and fly-proof
The US21 optics form a seamless sealed unit, which results in the safe shielding of the LEDs and provides full protection against dust and insects.



1 Light source: LEDs with two possible colour temperatures: 3000K (warm white) or 4000K (cold white).
2 Primary optics: shielding of the light source
3 Secondary optics: side reflectors with highly reflective lacquer

2A microprism structure for low glare (UGR ≤ 19 for offices)
2B diffuser foil for good illumination of the optics
2C diffuse, transparent side

[Further information at www.etaplighting.com]
downloads > brochures > Softlights

Easy renovations with LED+LENS™

Give short shrift to obsolete office lighting

With a new version of the square U7, specially designed for the quick renovation of offices, you no longer have a single reason to stick to your fluorescent lighting. You can replace the luminaires one to one without changes to the ceiling.

Quite a few offices are still illuminated with old and inefficient fluorescent luminaires. And yet the advantages of LED lighting are known, LEDs are more energy-efficient and have a longer service life. Building managers still hesitate too often to renovate lighting installations because they do not want major installation works to the ceilings.

No adjustments to the ceiling

Specifically for this purpose ETAP designed a simplified version of the square U7 LED+LENS™ luminaire. With this LED luminaire you can replace the traditional square panels (14W T5 Ø 16 mm or 18W T8 Ø 26 mm) one to one, without adjustments to the ceiling. You do not have to carry out a new lighting study. The luminaire is suitable for open plan as well as individual offices (UGR < 19).

Short cost recovery period

The U7 LED panel is a simplified version of the LED+LENS™ luminaire. In order to minimise the cost price, and hence keep the cost recovery period as short as possible, only one version is available: a square (600 x 600) luminaire with 18 LEDs, luminous flux of 3000 lm and a 4000K colour temperature. Medium angle light distribution.

Easy installation

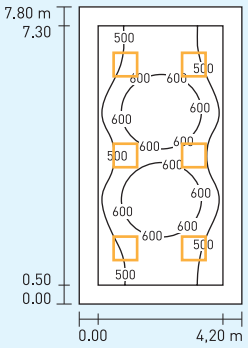
In the development of this U7 we have done our utmost to keep the installation as simple as possible. Just replace the panel on the T profile in the ceiling and reuse existing cabling. The panel is only 30 mm high, which will enable you to install the U7 effortlessly in low false ceilings.

LED+LENS™ quality

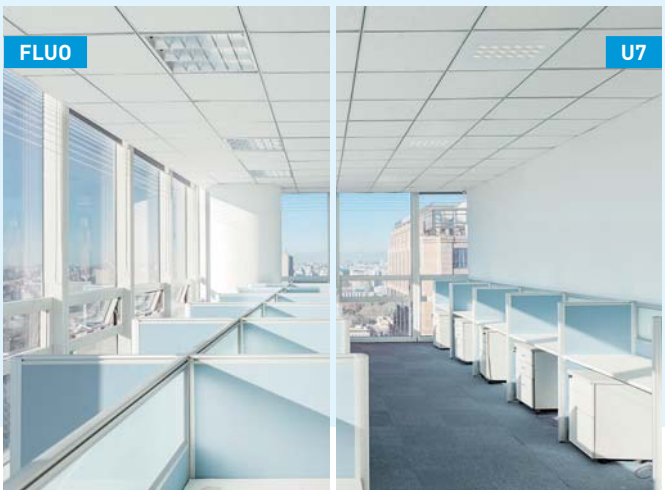
This U7 Is a fully fledged LED+LENS™ solution: advanced lighting technology in a unique design. A sophisticated combination of high-power LEDs and patented lenses provide maximum visual comfort and optimal light distribution. The housing consists of high quality steelplate with white texture paint.

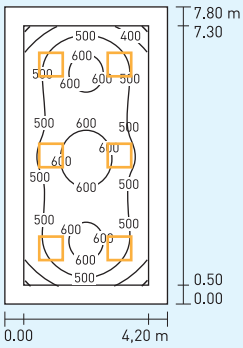
Saving energy from day one

You will immediately notice the difference in your energy bill after renovation with the U7 panel. Depending on the application, consumption will be up to 40% lower compared to a fl uorescent luminaire. The Lamp Lumen Maintenance Factor (LLMF) is still 99% after 25,000 burning hours and 97% after 50,000 burning hours.



Average illuminance: 568 lux
Specific power: 1.32 W/m²/100 lux





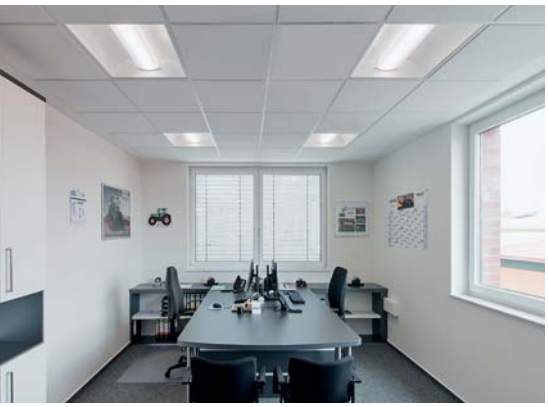
Average illuminance: 533 lux
Specific power: 0,79 W/m²/100 lux

[Further information at www.etaplighting.com]
downloads > brochures > U7 led panel

New building Schröder Landmaschinen is a good example of Smart Building

Innovative lighting with Excellum2

The German company Schröder Landmaschinen was fully focused on innovative technology for the expansion of its headquarters in Wildeshausen. The Excellum2 light control system fits in perfectly with this ambition. Thanks to a combination of various strategies the lighting installation is managed in the most energy-efficient and flexible manner.



At Schröder Landmaschinen tradition goes hand-in-hand with innovation. This producer of agricultural equipment was founded in Wildeshausen in 1810 as a small rural forging workshop. Today the sixth generation Schroeder is at the helm of the family business, which has grown into one of the major players on the German market, with 27 locations in Germany, Romania and Latvia and more than 700 employees.

In 2015 headquarters in Wildeshausen underwent a thorough makeover. A new three-storey building houses an office complex with a usable surface area of 1000 m² and a 772-m² showroom. The focus was on sustainability and innovation in the design of the new building. ETAP's Excellum2 light control system played a major part in this process.

Future-proof

Schröder's facility management did not choose Excellum2 for no reason. Decisive factors included energy efficiency, user-friendliness and flexibility. In addition, Excellum2 is able to communicate with various other protocols, which makes the system future-proof.

In consultation with the client, the installation' system structure was established in advance by ETAP and consultancy LBT-Nord GmbH. In this context, needs and requirements in terms of lighting were studied for each space or zone (offices, showroom, conference rooms, corridors, etc.). On this basis the various lighting scenarios and controls were established *(see box)*.

Smart building

The next step consisted in the drawing of the location of the luminaires and other components (push-buttons, DALI switches and multi-sensors for motion detection and daylight-dependent control). In addition, the alarm installation was integrated into the light control. When at the end of the day the alarm is activated, the light fixtures are automatically switched off, except those that have to stay switched on for safety reasons. In the beginning of the working day, when the alarm is deactivated, the lighting installation switches over to normal calendar mode. During a break-in alert, all luminaires are switched on with full illuminance. A good example of a 'smart building': the integration of several building techniques to maximise efficiency of the various technical installations.

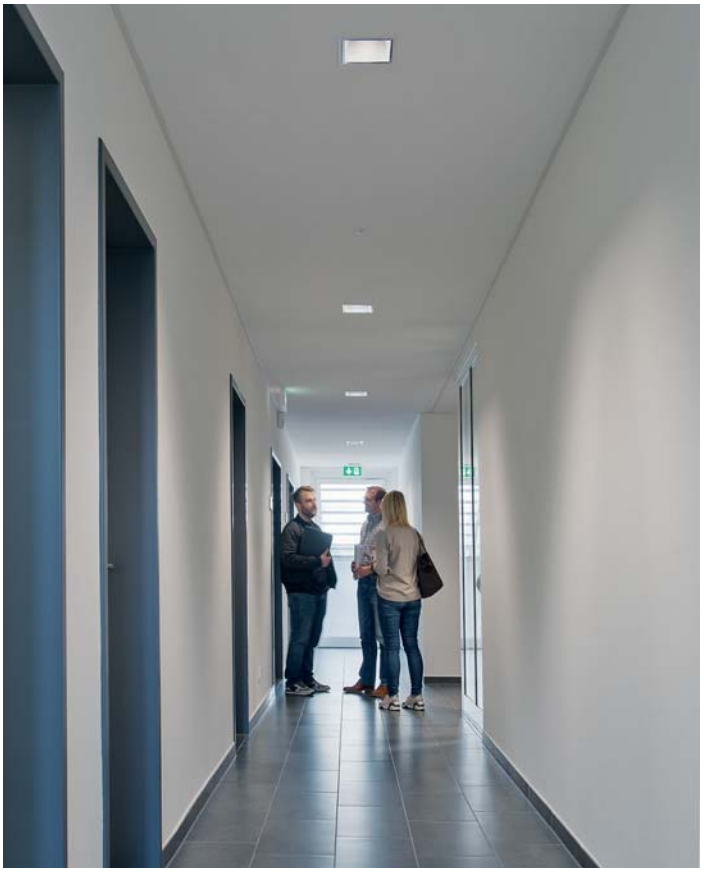
PROJECT DATA

LIGHT CONTROL
- 2 Excellum2 controllers
- multi-sensors for presence detection and daylight-dependent control
- DALI push-buttons and switches for manual light control

LIGHTING
- US softlights with LEDs in offices and conference rooms
- D3 downlights with LEDs in corridors
- R8 diffuser luminaires in reception area

EMERGENCY LIGHTING
- K1 and K9 escape route and anti-panic lighting
- K7 signage

During presentations in the large conference room, the luminaires are dimmed 50%.



Occupancy detection in the corridors: if no motion is detected for 10 minutes, lighting is dimmed to 20%.

Nothing but advantages

The advantages of the Excellum2 system are countless. Employees can easily adjust the lighting to their needs and to circumstances. Since the light is automatically switched off or dimmed when no one is around, the lighting's energy consumption is reduced to a minimum. Lastly, the facility manager can adapt the settings where necessary by means of management software, without major adjustments.

NAPOLEON'S HORSE

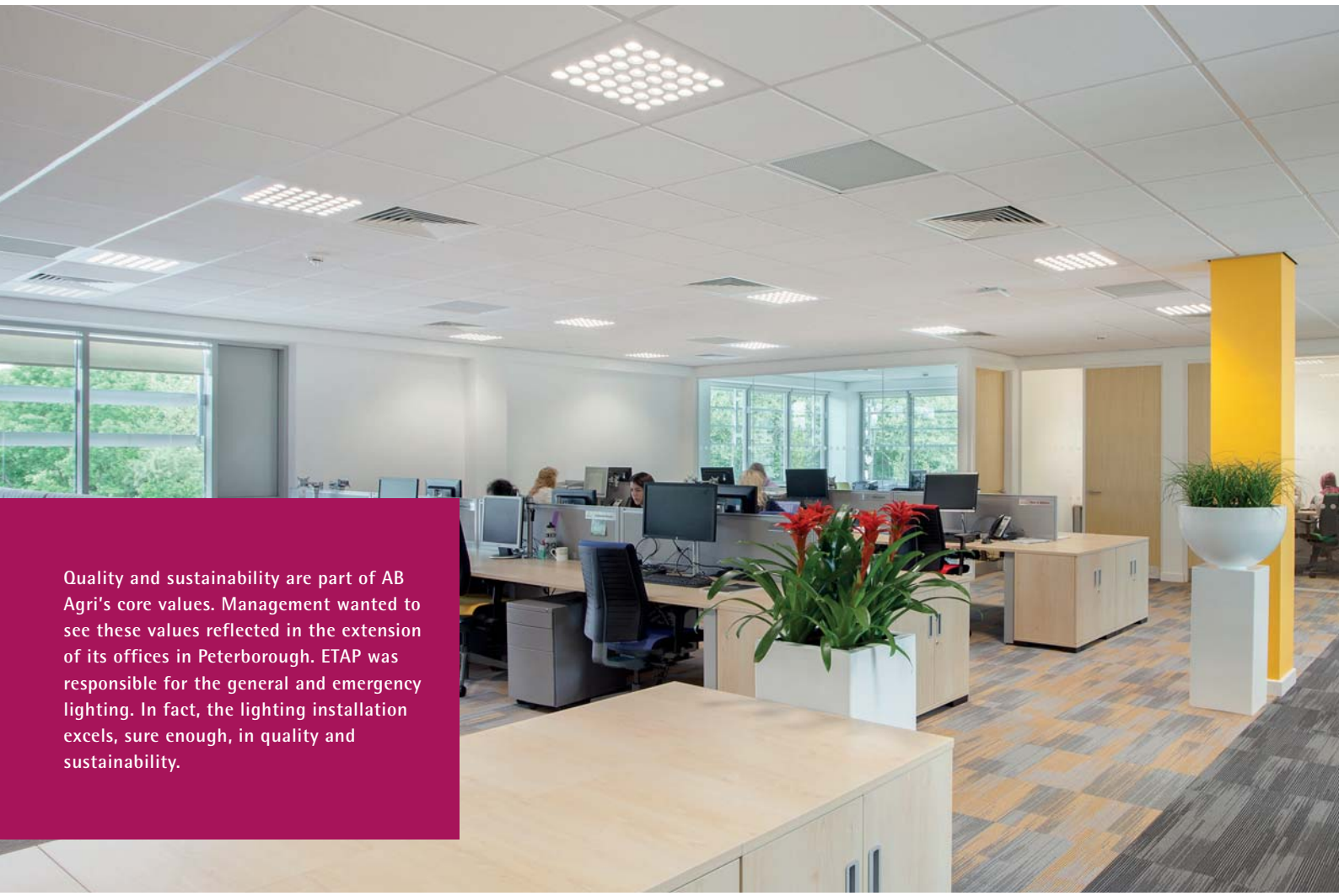
What is the connection between Excellum2 and Napoleon Bonaparte? Correct: Landmaschinen Schröder. In 1813 , after one of his campaigns, the then French Emperor stopped in Wildeshausen and had his horse shod in the recently set up forge. The news of the remarkable visit spread rapidly through the region and resulted in additional customers.

EXCELLUM2 OPERATING PRINCIPLE

- **CALENDAR FUNCTION:** at the beginning of the working day, the lighting installation automatically goes into ON mode; in the evening it goes into OFF mode. The calendar can be programmed months or even years in advance, taking into account public holidays and other closures. Also when exceptionally the lighting has to stay on longer, this can be adjusted in advance.
  Outdoor lighting and lighting in the showroom are controlled separately. Lights are on but dimmed at night to prevent the building being in complete darkness.
- **OFFICES AND SMALL CONFERENCE ROOMS:** when lighting is in ON mode, motion detection is activated. If no motion is detected for 15 minutes, lighting is dimmed to 30% of illuminance. After another five minutes, the luminaires are switched off.
- **OFFICES WITH WINDOWS:** same as other offices. In addition, the lighting is automatically dimmed to 500 lux on the work surface by means of daylight sensors.
- **CORRIDORS:** when lighting is in ON mode, motion detection is activated. If no motion is detected for 10 minutes, lighting is dimmed to 20%. The lighting is never completely switched off in the corridors for comfort reasons.
- **LARGE CONFERENCE ROOM:** when lighting is in ON mode, three scenarios are possible: a) lighting switched on 100%; b) all luminaires 50% dimmed; c) only downlights are switched on.
- The lighting can also always be manually switched on or off by means of the switches.

Reliability in the long-term

British agri-business AB Agri expands with ETAP lighting



Quality and sustainability are part of AB Agri's core values. Management wanted to see these values reflected in the extension of its offices in Peterborough. ETAP was responsible for the general and emergency lighting. In fact, the lighting installation excels, sure enough, in quality and sustainability.

AB Agri started out in 1985 as a modest sugar pulp-based animal feed producer. Thirty years on, and the company is a global player in the animal nutrition market, operating in 70 countries and with more than 3,000 employees worldwide. Due to speedy growth , it needed to expand its Peterborough offices (150 km north of London).

Open spaces

In practical terms, the extension involved doubling the office space. Like the current offices, the renovated building features large, open spaces with plenty of daylight. The main consultant, Cunnington Clark contacted the ETAP office in the UK for its lighting, as in keeping with the client's sustainability values the lighting would need to compliment this. Project leader Simon Laws said: "We had already collaborated with Cunnington Clark a few number of times before on projects and therefore they knew what we are all about.

Although lighting in the old office building was not delivered by ETAP, Cunnington Clark was able to convince AB Agri's facility management of our qualities."

Proof, yes please

From the extensive range of office luminaires with LEDs, AB Agri eventually opted for U7 recessed luminaires. The performance of the LEDs, excellent light treatment thanks to patented lenses and characteristic design of the LED+LENS™ family were the deciding factor. "It was important to AB Agri that we could back all our luminaires' specifications with figures," "The fact that we not only produce and sell luminaires, but also provide lighting studies and think along with the customer, was a big plus in this context."

Reliability in the long-term

With a specific luminous flux of 130 lm/W and a high maintenance factor (97% LLMF after 50,000 burning hours), the U7 is one of the most efficient LED luminaires on the market. This is not only based on theoretical calculations. Since 2012, Laborelec, an independent measuring lab, has been testing the aging of various LED luminaires for offices. After 12,000 hours (accelerated aging), the U7, contrary to its competition, still retains the same luminous flux as in the beginning of the test. This reliability in the long-term was perhaps the most important argument for AB Agri to go with ETAP.

In order to further reduce energy consumption, lighting is automatically dimmed where possible, or switched off by means of daylight-dependent sensors and motion detectors. Since all of ETAP's LED luminaires are available with DALI drivers, this was not a problem.

EMERGENCY LIGHTING NO ONE NOTICES

If you want to see the emergency luminaires in the AB Agri offices, you have to take a good look. The K9 mini has earned its name. With a diameter of barely 20 mm, the luminaires are nearly seamlessly integrated into the ceiling. Even though its dimensions are limited, its performance is not. Thanks to the advanced lenses, fewer luminaires are necessary to satisfy all legal requirements.

Light+building dedicated to spotlighting technology

ETAP introduces innovations in Frankfurt

With 2589 exhibitors and 216,000 visitors from 160 countries, light+building 2016 was once again a hit for the lighting industry. ETAP introduced a number of remarkable innovations.

How can we deploy smart lighting technology to make life more pleasant and comfortable? This year this was one of the central themes at light+building, the biennial international fair for lighting and building technology in Frankfurt. Excellum2, the light control system, stood in the spotlight on the ETAP stand. Ease-of-use, flexibility and energy-savings are the system' s three basic features. Visitors were able to test Excellum2's various smart strategies for themselves by means of a demo.

Elegant and efficient

ETAP constantly works on the expansion of its range of LED luminaires. Visitors to light+building were the first to discover the brand-new R2 series: an extensive range of diffuser luminaires. Suspended or surface-mounted, individual or in line, square or rectangular, we have an in-house solution for every application. Visitors to the ETAP stand were impressed with the performance of the R2. With a specific luminous flux up to 140 lm/W, the R2 not only represents elegant design, but also outstanding efficiency.

Under the microscope

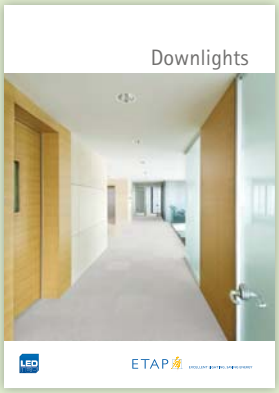
Since LED technology continues to evolve, ETAP regularly updates existing series. For example, the R8, a modern ETAP classic, was recently put under the microscope and underwent a thorough overhaul. Although the new R8 will only hit the market in October, visitors to light+building were given a taste of what's in store. The D9 - a new downlight - as well as a linear version of the US softlight series, attracted quite a lot of attention.

Conclusion

In terms of emergency lighting, the new K1 was a major eye-catcher. This luminaire for anti-panic and escape route lighting has been completely restyled into a highly compact and discreet fixture, suitable for nearly all applications. The K1 is the final piece in the LED emergency lighting conversion. ETAP now boasts a full range of emergency luminaires with LEDs (both lighting and signage) for every application.

New product brochures

Would you like further information on our new products? You can request the new brochure from your ETAP adviser or download it from our website.



ETAP videos on YouTube

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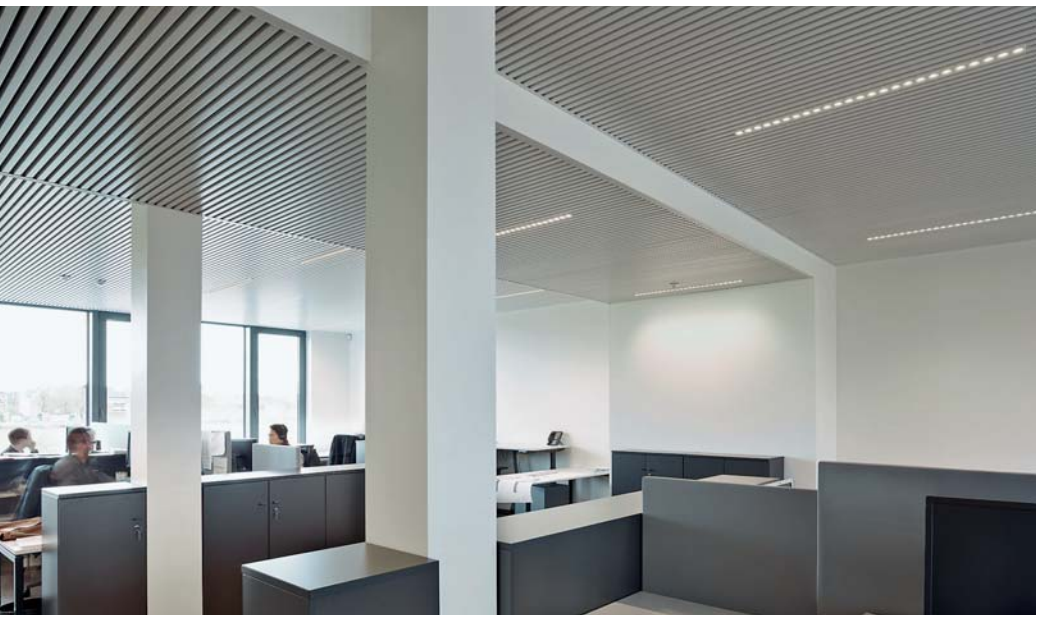
Tailor-made for the customer



Peri nv sought an energy-efficient lighting solution for its newbuilt offices in Niel. ETAP delivered bespoke LED+LENS™ luminaires for the SAPP climate ceilings.

In March 2016 Peri's Belgian office moved from Londerzeel to Niel. SAPP climate ceilings from Interalu were installed in the offices. Heating and cooling takes place through pipes in the ceiling. The vertical slats ensure excellent acoustics and thermal comfort, but at the same time limit the options for the lighting installation.

Unique design

Right up ETAP's alley. Since the unique LED+LENS™ design pleased both client and architect, our Custom Design department created a luminaire with 25 LEDs , based on the U7. The luminaire is as wide as two slats with the same colour and texture as the slats, so that it seems that the LEDs were directly mounted in the ceiling with the lenses.

The LED+LENS™ concept was also applied in the conference room, where the client opted for suspended R7 luminaires.

Minimalist

They opted for the K9 mini. This minimalistic luminaire is discreetly integrated into the ceiling, so that it can barely be seen with the naked eye. Despite its compact dimensions, the K9 offers safety where and when necessary.

PROJECT SHEET

CLIENT: Peri nv

ARCHITECT: Crepain Binst Architecture nv

INSTALLER: ETI VDV

LIGHTING:

- LED+LENS bespoke luminaires in the offices
- R7 suspended luminaires in the conference room

EMERGENCY LIGHTING:

- K9 mini
- K7 signage

ETAP
EXCELLENT LIGHTING, SAVING ENERGY

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