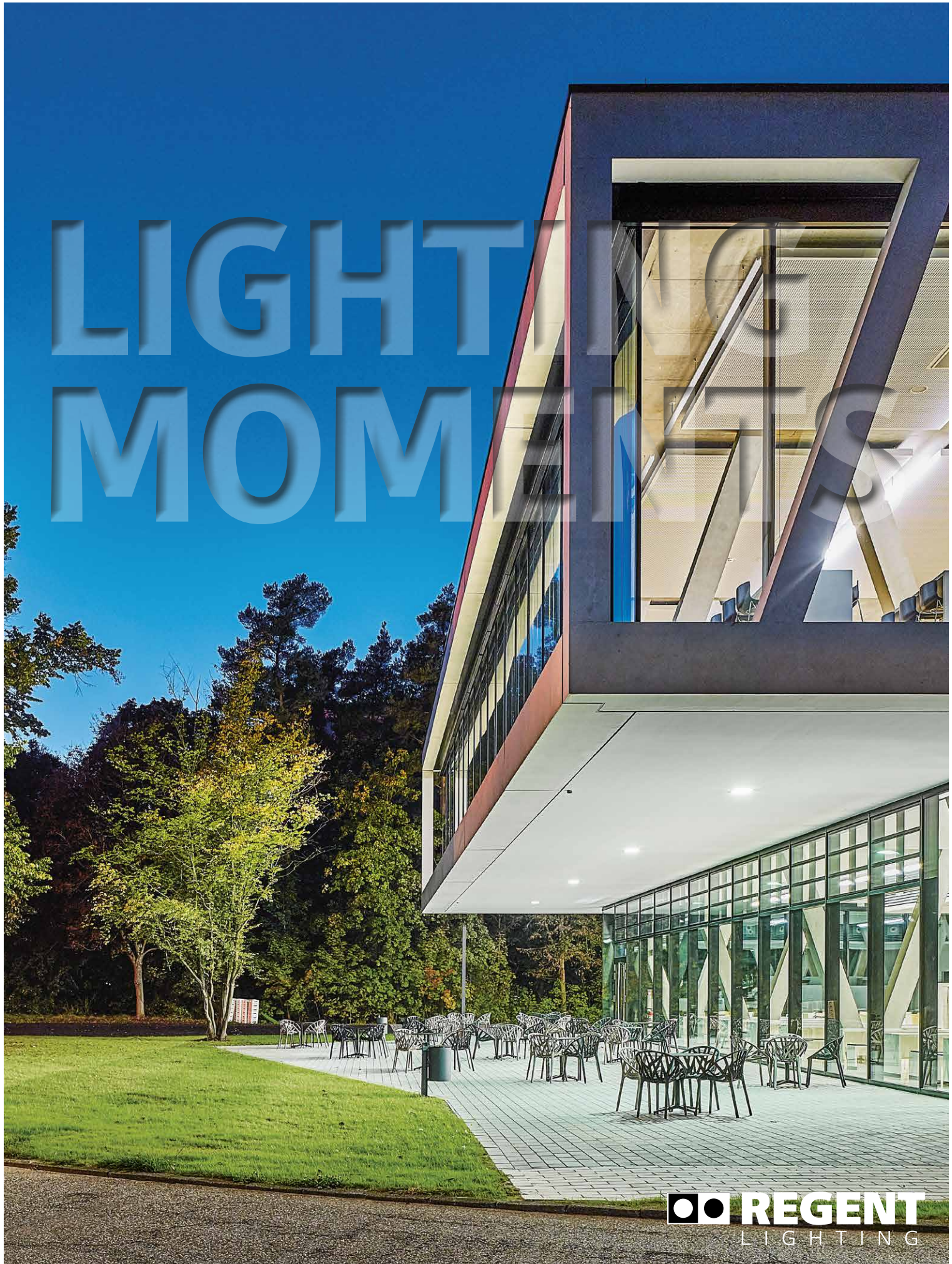


# LIGHT MOMENTS







Hinrik Wachsmuth, Head of Marketing and Communications,  
Regent Lighting

## EDITORIAL

“We see every project as a challenge.  
Right from the start.”

It is impossible to imagine a project today which does not involve LEDs. In order to guarantee we can provide you with the best possible solutions, we have reorganised our work processes, product developments and project planning. Every project is a new challenge and a new inspiration. We would like to thank every single one of our customers for their close and highly constructive collaboration. Without them it would not be possible to realise lighting solutions that meet all needs and expectations.

And it doesn't stop there. We think ahead. No sooner has the LED become firmly established, the next big challenge is bound to be just around the corner.

In order to exploit the opportunities that digitalisation offers purposefully and meaningfully, we adhere to a philosophy that we refer to as “Lightuition”, which focuses on investigating how the latest digital technologies can be applied to create intuitive lighting innovations to enhance working environments and the quality of life in general.

We trust you will enjoy reading through this catalogue and be inspired by the solutions presented.

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**When lighting projects  
result in product innovations.**

When the Institute of Technology is looking for a lighting solution, it needs to be ground-breaking. Which is why this project led to the development of the highly successful Flow LED.





## "Garden pavilion" for the Technology Institute.

All-round LED solution for the Karlsruhe Institute of Technology.

The Karlsruhe Institute of Technology (KIT) is a renowned University of Technology and German research centre. The idea for the new canteen was that staff, students and guests should have the feeling they were sitting in a space surrounded by trees. The "casino" was therefore designed as a highly transparent structure with canted exposed concrete columns, and integrated perfectly into the wooded landscape – like a garden pavilion.

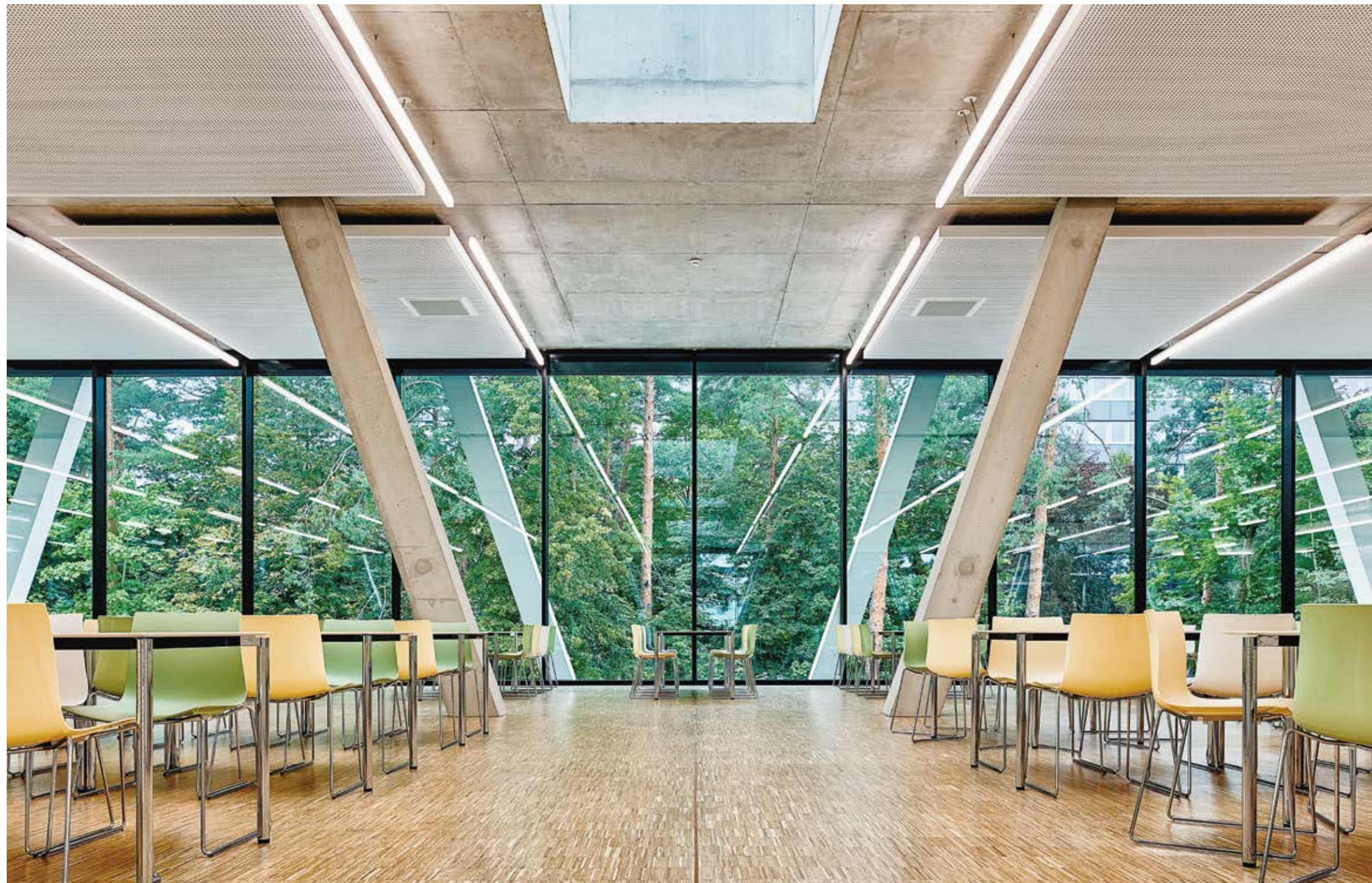


The lighting was to blend in harmoniously and discreetly with the architectural concept. The luminaires were therefore required to be minimalist and unobtrusive in their design. Initially the lighting was based on conventional light sources. But then Regent came up with a custom designed LED solution which the architects and the client immediately opted for. The result was the new Flow LED, which in the meantime is in series production.



Flow LED luminaires can be used to create perfect uninterrupted lines of light. Optimum direct and indirect lighting is achieved using state-of-the-art LEDs together with SLA Technology (Spread Light Applicator) from Regent. The architects were especially convinced by the extremely even spread of light across the translucent housing. And it was no problem to align the system luminaire to the length of the acoustic ceiling sails.

In the entrance area round Solo LED surface-mounted ceiling luminaires add a lively touch to the exposed concrete ceiling. Their timeless design and seamless aluminium housing create an impression of streamlined elegance and quality. The LED luminaires applied in the new building enable energy savings of between 60 and 70 per cent as compared to conventional T5 luminaires. Higher cost-effectiveness, low maintenance requirements, and state funding for an LED solution all made for compelling arguments vis-à-vis the client.



**Casino, Karlsruhe Institute of Technology, Karlsruhe, Germany**

**Client:** Karlsruhe Institute of Technology (KIT)

**Architects:** BM+P Architekten Hesse Haselhoff, Hartmut Geissler, Düsseldorf

**Luminaires applied:** Flow, Solo





## Looking for unlimited fun? You got it!

Rolling Rock Skate and Sports Centre underscores its robust, high-quality image.

Trend sports enthusiasts are going to be over the moon: the recently renovated Rolling Rock Skate and Sports Centre in Aarau has been reopened. Besides the skate park, the 2200 square metre freestyle sport Mecca offers a variety of other sports such as climbing, trampolining or inline hockey. The complex includes the Rolling Rock Hardware Shop, where you can buy whatever equipment you need for your favourite sport. Office spaces are also housed under the same roof. As is the Rolling Rock Streetwear Shop. The 250 square metre store has been re-lit to enable visitors to be inspired by the great range of streetwear, bags and skating equipment.



The sports centre incorporates many different sports facilities, each of which called for a custom lighting solution. In the skating arena, for example, the lighting was basically required to guarantee that skaters can use the facility safely and without risk. Special requirements needed to be met and the relevant safety standards observed. One of the challenges was to underscore the high quality of the space in spite of the different ceiling heights. This required re-positioning various luminaires or reducing the number of fixtures. In the shopping zone the lighting was designed to accentuate the merchandise on display. Glare-free lighting in the office spaces makes for optimum working conditions even when there is little daylight available.



The display lighting in the store is provided by Matrix LED spotlights mounted between the wooden beams. In spite of their different material qualities, the luminaires blend in well with the architecture. Pendant-mounted ICE Basis LED luminaires ensure safe lighting conditions for skaters and climbers to enjoy their respective sports. Item LED pendant luminaires deliver appropriate lighting for the workstations in the offices. And the shower facilities are lit using moisture-proof Splash Clear LED luminaires.

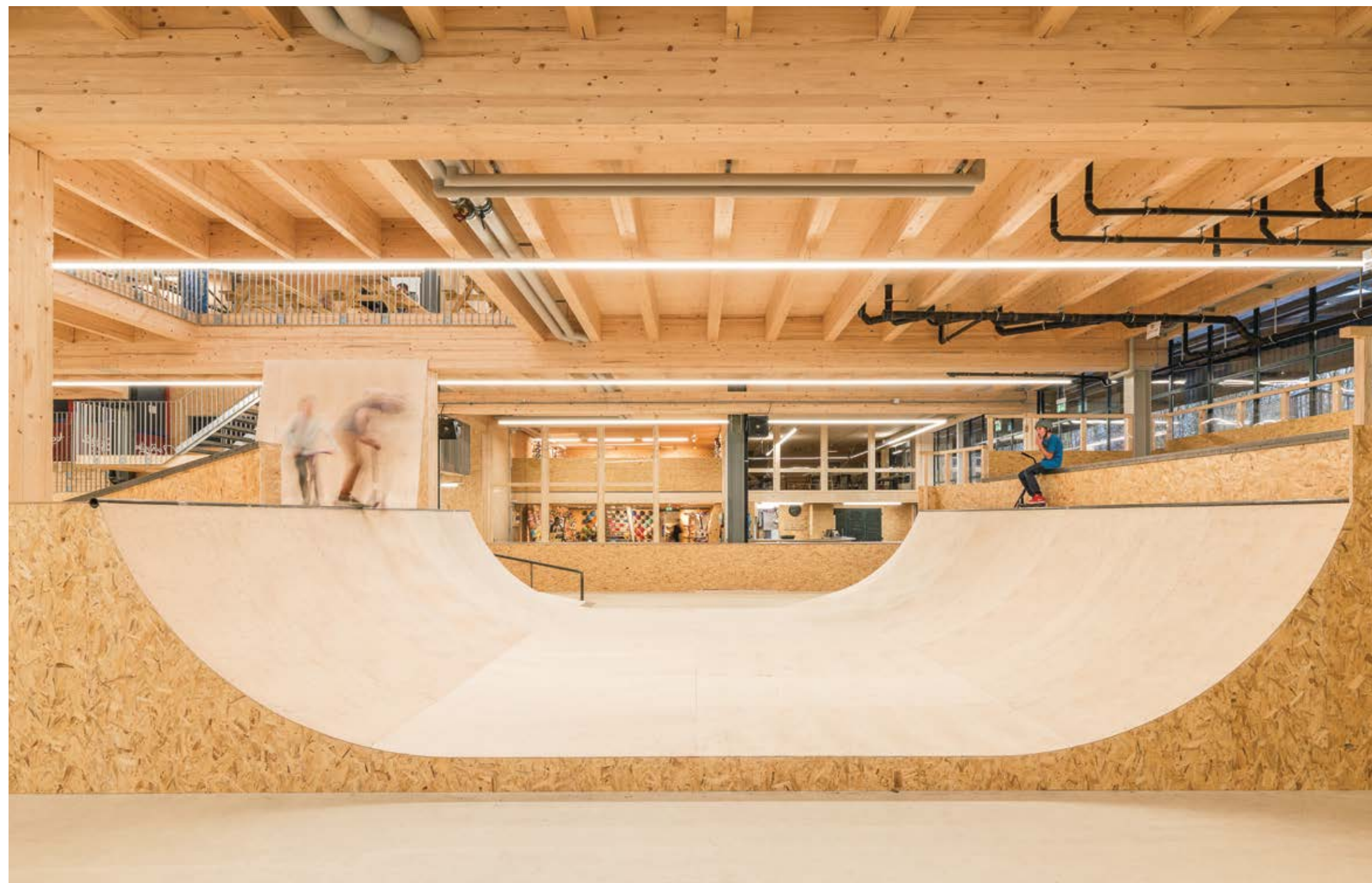
**Rolling Rock Skate and Sports Centre, Aarau, Switzerland**

**Client:** Rolling Rock AG, Aarau

**Architects:** Architekturbüro Andreas Berger AG, Wohlen

**Lighting design:** Sandmeier Elektroplanung + Telematik GmbH, Niederlenz

**Luminaires applied:** ICE Basis, Splash Clear, Matrix, Item





# Geometrical architecture.

LED solution underlines the qualities of a school in Ticino.

The secondary school in Morbio Inferiore, a municipality in the canton of Ticino, was designed by the renowned architect Mario Botta and opened back in 1977. Botta is regarded as a leading member of the Swiss-Italian "Ticino School of Architecture", which was founded back in the 1970s. He was a great admirer of Romanesque architecture, and his designs involve materials such as natural stone, brick or concrete and draw on a broad spectrum of forms. Botta attached particular importance to the impact of daylight on the spaces inside the buildings he designed.

The architecture of the Scuola Media in Morbio Inferiore features strict geometric forms and a play of light and shadow, a combination that allows the solid structure to come across as light and airy. The existing lighting was to be replaced by a state-of-the-art LED solution. The lighting concept, which comprised pendant linear fixtures, was not to be altered. The new energy-efficient luminaires were to meet these design requirements and comply with statutory regulations.

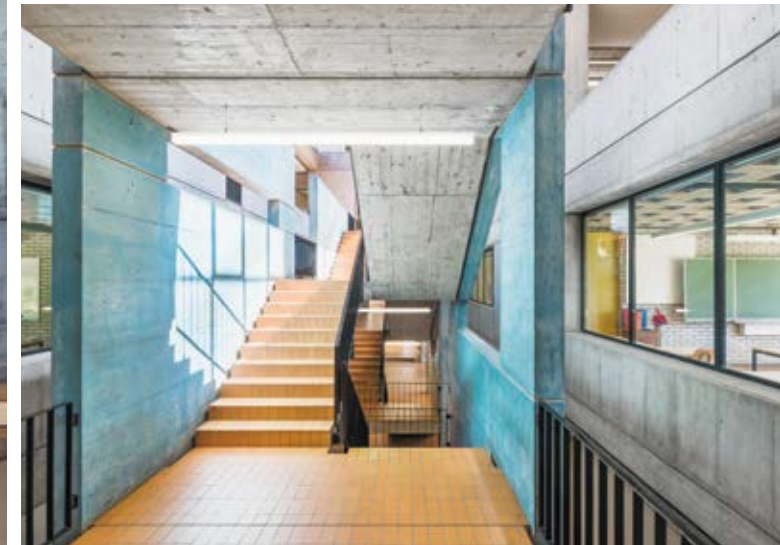
Flow LED pendant luminaires, which feature minimalist linear design, now provide diffuse, pleasant lighting in the circulation areas. The lines of light on the exposed concrete walls and ceilings are integrated into the architecture. The classrooms have been equipped with Channel Office C-LED luminaires, which provide the appropriate level of illumination for enhanced visual comfort without glare.

**Secondary school, Morbio Inferiore, Switzerland**

**Client:** Republic and Canton of Ticino

**Architect:** Mario Botta

**Luminaires applied:** Flow, Channel





# Company head office with a sense of identity.

Minimalist design for the German head office of the Vulkan Group.



Vulkan is a long established company owned by the Hackforth family and is now in the fourth generation. The new head office building at the company's headquarters in the German town of Herne in North-Rhine Westphalia was opened on the occasion of the 125th anniversary of the founding of the company. The Vulkan Group specialises in Marine Propulsion Systems, Industrial Drive Solutions, and Refrigeration and Air Conditioning. Around 1200 employees in 20 subsidiaries and agencies in 51 countries around the world are coordinated from the corporate headquarters.

Besides focussing on the continuous improvement of production processes, the company was also looking for a sustainable and future-oriented set-up for their own working environments. The idea was to house the corporate headquarters in a larger building that would contribute to the company's sense of identity in order to be well equipped to meet future challenges in the market. As a result the building now comprises communal areas designed to promote communication, with transparent conference rooms, exhibition spaces and waiting areas and light-filled inner courtyards. The office space was also redesigned to promote cooperation between all members of staff.







Consistent with the clear lines and open structures featured in the new building, the lighting design was implemented using only a few different types of luminaire. The brief was to provide a discreet, efficient and glare-free solution that aligned with the geometrical design of the spaces and conformed to standards. Channel Office C-LED luminaires have been applied in the office spaces – while square downlights with flush-mounted opal diffusers are installed in the peripheral zones. In combination with linear fixtures, these also illuminate circulation areas and conference rooms. Round Solo LED recessed ceiling luminaires complement the concept of strict lines.



**Vulkan Group Head Office, Herne, Germany**

**Client:** Hackforth Holding GmbH & Co. KG

**Architects:** RKW Architekten, Düsseldorf

**Lighting design:** Fachplanung TGA: BDKplan, Düsseldorf

**Luminaires applied:** Channel, Solo



# Illuminating authorities.

Light and colour experience in a Swiss road traffic office.

The Road Traffic Office in Schafisheim in the canton of Aargau is living proof that an administration building can be an attractive place for both visitors and staff. This is where people go to register their vehicle or boat, and where all applications are checked for eligibility. Nowadays many administrative services can be taken care of online, but in some cases it is necessary to make your way to the respective authorities in person. And if you have to wait your turn, you can do so in pleasant surroundings.



When the Road Traffic Office in Schafisheim underwent renovation the emphasis in the public areas, including the stairwell and the corridors, was placed on a strong light and colour concept. A number of construction and design team meetings took place, with the result that the complete lighting scheme was to be realised using energy-efficient LED lighting that would deliver the desired ambience. All luminaires applied are 4000 Kelvin, which also brings out the quality of the intensive yellow colour scheme – proving that even parts of the building where there are no windows can be friendly and sunny.

The base lighting is provided by Slash 2 luminaires integrated into the ceiling using Slash 2 profiles. Like the Channel row lighting system, they deliver optimum illuminances in the different spaces and underscore the desired modern minimalist aesthetic. The ceiling luminaires, together with free-standing luminaires, provide the conditions required for the staff at the workstations to concentrate on the work at hand. The entrance to the building looks particularly welcoming thanks to Channel LED luminaires mounted beneath the porch roof. The luminaires are IP-rated accordingly: so water spray is not an issue.

**Road Traffic Office of the canton of Aargau, Schafisheim, Switzerland**

**Client:** Canton of Aargau

**Architects:** Stoos Architekten AG, Brugg

**Lighting design:** EE-Design GmbH, Basel

**Luminaires applied:** Slash 2, Channel, Echo, Viva, Level, Flow







Whether day or night – the local administration offices of the canton of Ticino demonstrate transparency and the fact they have an open ear for all citizens. This is further underlined by the open architectural style of the building and an innovative lighting concept.



# Light as a contribution to environmental protection.

Ticino administration effectively implement their own standards.

The new administration building in the canton of Ticino has a staff of 400 and is located in the middle of a huge park. Transparency – one of the leitmotifs of the cantonal administration – is reflected in the architecture. Thanks to the striking pillar construction and the extensive glazing the administration building blends in perfectly with its landscaped surroundings. Spread over five floors, there are offices, a library, technical rooms, archives and a light-filled cafeteria. The conference rooms are contained in a separate building and connected to the main building via passages. A large hall on the ground floor provides space for special public events.

The administration building is obliged to adhere to the guidelines laid down by the canton of Ticino regarding energy consumption and strict Swiss Minergie Standards. The lighting concept for the building played a key role when it came to reducing energy consumption. Given the large number of fixtures required, and the demand for greater cost efficiency, it was imperative that the luminaires applied were maintenance-friendly.

Viva LED luminaires are applied in the highly frequented areas. The recessed downlight meets all requirements with regard to design, innovative technology and lifespan. Compared with conventional light sources, Viva LED cuts energy consumption by 50 per cent and its service life is five times longer. Level LED free-standing luminaires provide standards-compliant office lighting at the workstations and Torino LED pendant luminaires create the perfect ambience for people to relax or meet briefly in the circulation areas.

## Administration building 3, Bellinzona, Switzerland

**Client:** Republic and Canton of Ticino

**Architects:** Snozzi Groisman & Groisman Locarno

**Electrical engineering:** Scherler SA, Breganzona

**Electrical installers:** Elettrocivelli SA, Breganzona

**Luminaires applied:** Level, Viva, Torino





# Light sells and whets the appetite.

Ströck also welcome customers to test their wares after work.

The baker's trade is indeed one of the oldest in the world. But as the Austrian family bakery business Ströck is proving, it is by no means losing any of its significance or popularity in the 21st century. The young generation of Ströcks have come up with a brilliant new business concept for their outlet in downtown Vienna: they are inviting people to relax after work in a cosy, friendly atmosphere, and offering internationally inspired Austrian specialities of the season against a charmingly renovated industrial backdrop. Guests can choose from a selection of delicious breads and cakes, accompanied by coffee and wine. At the weekend they open early for breakfast.



Light plays a key role in hospitality and retail environments. In Ströck's flagship store the idea was to provide lighting that would enhance the appearance of the breads, cakes and cookies on display and at the same time promote the kind of atmosphere people welcome after a long day's work

Being involved in the design team from the early stages of the project meant that it was possible to discuss project requirements and goals with the client, the interior architect and the project manager and come up with an elaborate brief. In the course of the detailed planning of the complex lighting solution to be provided by Regent, all architectural objectives as well as the stringent parameters laid down by the client's own technical team (energy consumption, maintenance schedule, safeguarding against failure, simple operation) plus hygiene stipulations were taken into consideration. These were applied when developing the overall lighting scheme as well as when developing the lighting concepts to align with the changing daylight conditions over the day.

By mixing groups of dimmable luminaires from two "product families", each offering task-related lighting qualities, the resulting lit environment is both beautifully balanced and convincingly attractive.

This involved the application of luminaires from Regent's standard range as well as custom designed fixtures. The use of LED technology ensures cost effectiveness and the targeted long service life of the luminaires. Thanks to the highest possible flexibility offered by the lighting system, the special requirements of this particular branch of industry can be met to an optimum.

In order to be able to achieve these ambitious goals, Regent went as far as to re-interpret their own portfolio, also taking control technology to new levels to meet the requirements of the project. Being involved in the design team from the start, and having Regent specialists on board to follow the development of the project in all its details, enabled the sustainable concept to be developed and realised smoothly within the given timeframe.

#### **Ströck Bakery, Vienna, Austria**

**Client:** Ströck-Brot GmbH

**Architect/interior architecture:** Ströck's own team

**Luminaires applied:** Poco System EFT PAL+, Matrix, custom luminaires







## Company-specific design supported by light.

Special LED lighting concept for the Zurich Insurance Group.

Thanks to its size SkyKey is already acknowledged as a new landmark in the North Zurich area: 63 metres high, 18 storeys and space for approximately 2400 workplaces. The sole tenant of the 40 000 square metre leasable area is Zurich Schweiz, the Swiss headquarters of the Zurich Insurance Group. In accordance with the client's brief the visionary office tower was designed to meet the sustainability criteria laid down for LEED certification, Platinum level. This meant that the lighting solution needed to be handled by a specialist with know-how in the field of LED technology and building automation. How valuable and worthwhile these efforts were can be seen in the energy consumption of SkyKey: 50 per cent less energy consumed vis-à-vis buildings designed to conventional standards.



An in-house team developed a special concept for the offices in the new headquarters – with the prospect of transferring this design to other branches of the company – moving away from the conventional idea of desks set up according to a rectangular layout and towards organic forms and a lighting concept that can be harmoniously integrated into the overall concept.



The design of the luminaires therefore played a key role in the company-specific planning and design of the working environment: the free-standing luminaires were to be positioned laterally to the workstations and align with the office furniture concept. The planners opted for free-standing luminaires with a single luminaire head. A sophisticated custom solution was developed using the formal language of the Tweak range from Regent. The custom designed pendant luminaires in the conference rooms are also based on the formal language of the Tweak CLD LED. As a consequence, all working areas at the company headquarters benefit from a highly consistent lighting concept. The opportunity to view luminaire samples in the project phase was much appreciated by the decision-makers, since it allowed them to evaluate both the design and the technical qualities of the products.



**SkyKey, Headquarters of the Zurich Insurance Group, Zurich, Switzerland**

**Client:** Swiss Prime Site AG, Olten

**Office design:** Zurich Versicherung, Ralf Ditt

**Architects:** Theo Hotz Partner AG, Zurich

**Lighting design:** d-lite lichtdesign, Guido Grünhage, Zurich

**Luminaires applied:** Tweak, Slash 2



# Farsighted school complex in the Rhone Valley.

School in the Swiss municipality of Vouvry promotes future-oriented learning.

The new school building in Vouvry is located on a flat piece of land between the historic centre of the village and the Rhone, set against the backdrop of the Valais Alps. The new "Cycle d'orientation du Haut-Lac" school complex offers young people from Vouvry attending the school in their last three compulsory school years an especially visually appealing and inspiring learning environment.



## Cycle d'orientation du Haut-Lac, Vouvry, Switzerland

**Client:** Groupement régional du CO du Haut-Lac

**Architects:** Berrel Berrel Kräutler AG Architekten ETH BSA SIA, Basel

**Luminaires applied:** Milano, Channel



The combination of school building and triple gym to create one unique and large building is a subtle reference to buildings in the region originally dedicated to small-scale industry. The gymnasium is a daylight space and forms the core of the school complex. As darkness falls Channel luminaires integrated discreetly into the ceiling design provide optimum lighting conditions for sports activities. Given the unhindered view across the entire building, all activities that take place in the gym are naturally an integral part of school life per se.

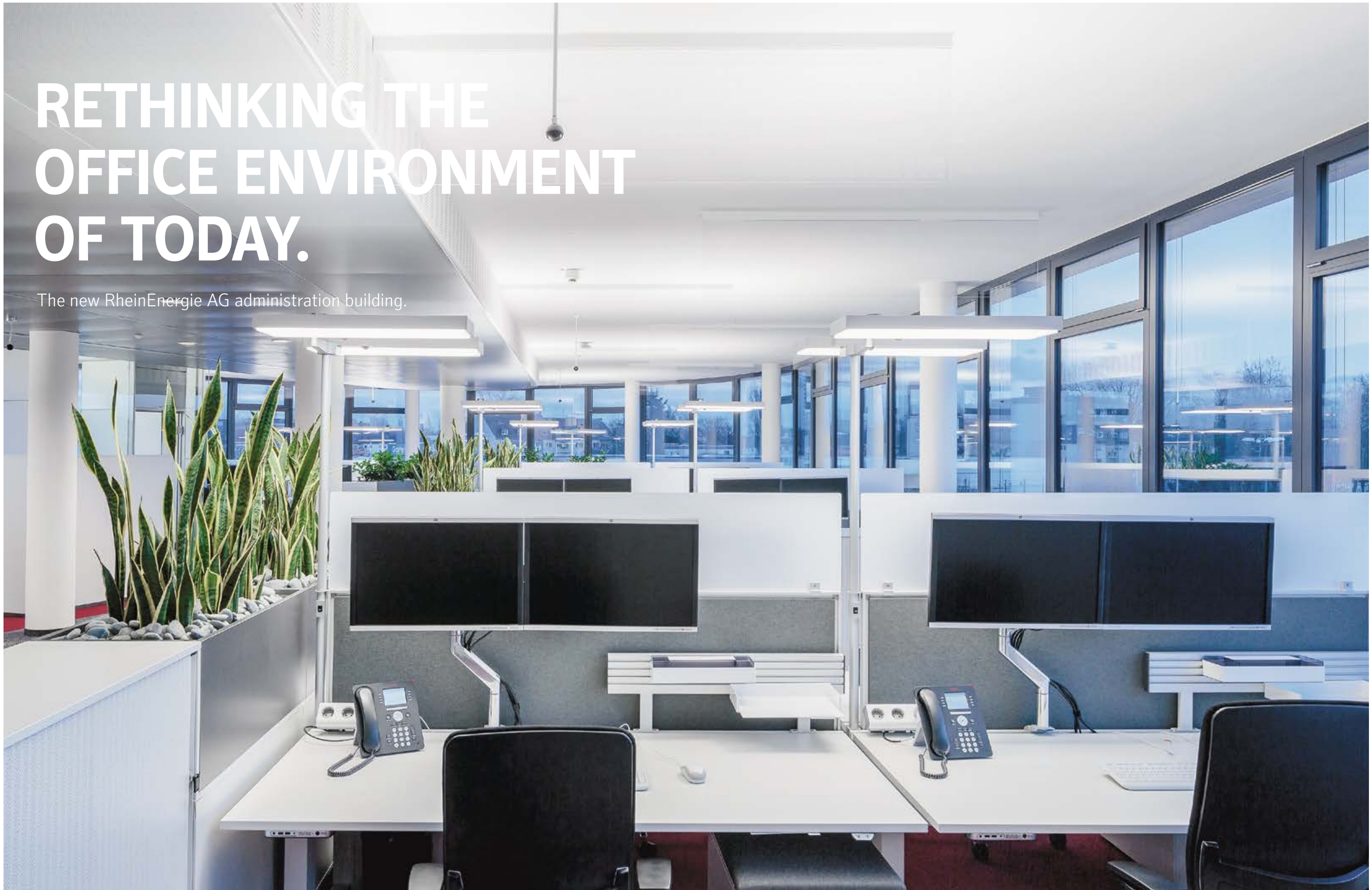
The gymnasium is surrounded by the classrooms on the two upper floors of the building. The corridors along which the classrooms are located have different coloured walls which are washed with light and serve as large reflective surfaces. Generously dimensioned cascading staircases connect the floors. Like the classrooms, these spaces are also illuminated using Milano LED pendant luminaires. These light the ceilings, walls and floors, and complement the modern desks and chairs in the classrooms.





# RETHINKING THE OFFICE ENVIRONMENT OF TODAY.

The new RheinEnergie AG administration building.

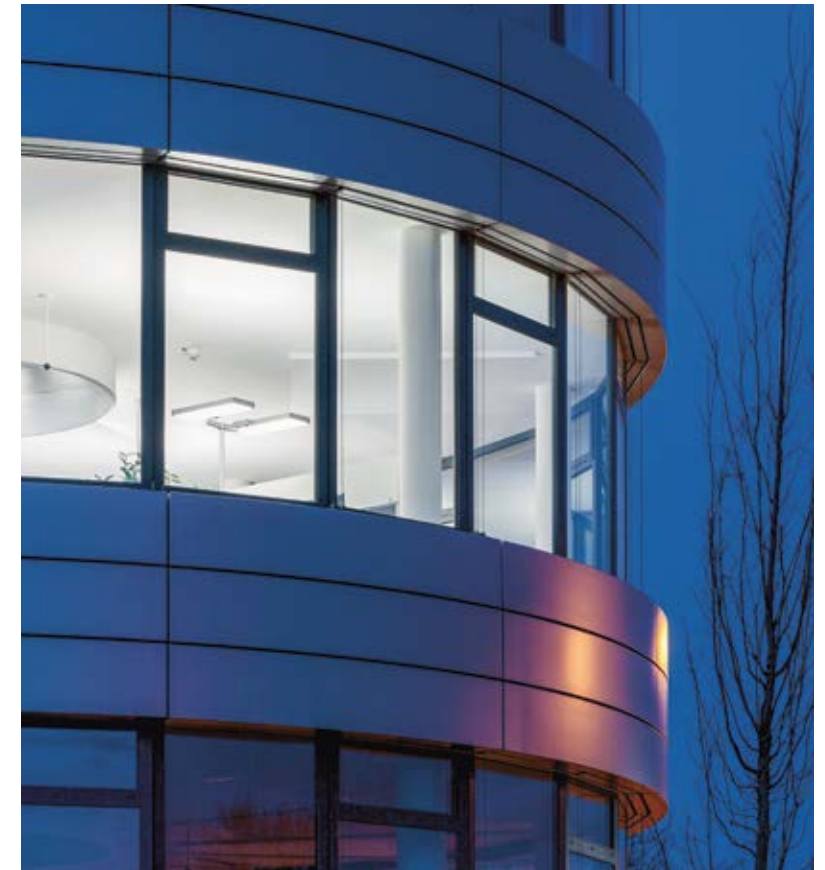






The utility company's new administration building in Cologne is an office of the future, incorporating an open-plan workplace for 1900 employees and a forward-looking energy concept. The "ecological marvel" focuses on renewable energies and has been realised using cutting-edge LED technologies. In order to meet project requirements, including those related to industrial psychology, Regent Lighting carried out a detailed analysis of needs together with the client and the users. Those responsible for planning and controlling were involved in the early stages of the project.

The comprehensive lighting concept is built around the Level CLD LED free-standing luminaire. Be it for the Call Center, the Think Tanks, or the one-man/woman offices: the different versions of this highly versatile luminaire respond to the requirements of the users of the respective spaces to an optimum. The perfect interplay of LED technology, state-of-the-art sensor technology and intelligent ALONEatWORK® wireless communication technology make for the highest operational standards when it comes to workplace convenience, safety, and energy efficiency. The entire building, including the lighting scheme, was designed with the well-being of the people using the facility as the prime focus. In spite of the fact that all building services are fully automated, the lighting can be switched and controlled individually to suit individual needs. With their new administration building in Cologne, RheinEnergie AG together with Regent Lighting have not only rethought the philosophy behind modern-day office environments. They have seriously begun to implement their ideas.



**RheinEnergie AG, Cologne, Germany**  
**Client:** RheinEnergie AG  
**Architects:** Sinning Architekten, Darmstadt  
**Luminaires applied:** Level with ALONEatWORK®



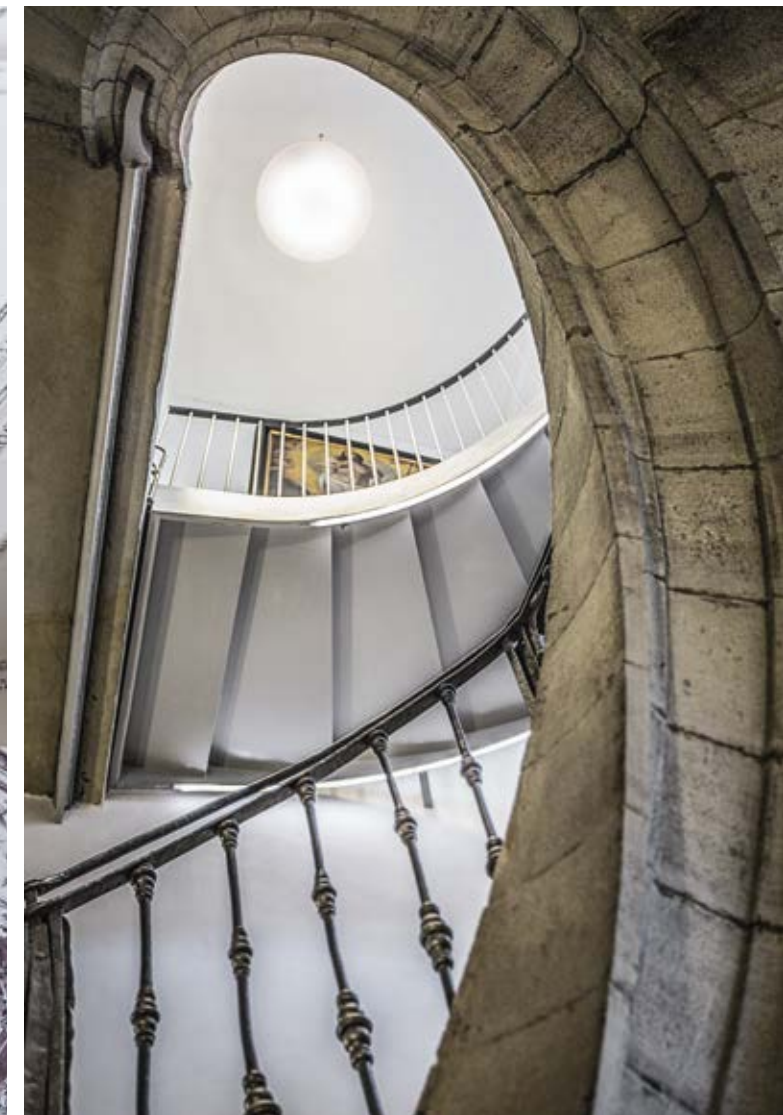
# Modern lighting for historic settings.

New lighting scheme for the DomQuartier in Salzburg.

The northern oratory of Salzburg Cathedral was recently renovated and now houses gallery spaces for temporary exhibitions. The first exhibition at the Salzburg Museum features baroque works dating back to the 16th and 17th centuries. A key feature of the realised solution is a ring-shaped track with a diameter of six metres. The integrated indirect LED lighting is dimmable via a DALI interface. In addition, the colour temperature can be adjusted from 2500 through 6500 Kelvin. The spotlights mounted on the ring can be positioned and individually adjusted as required. The spotlights are equipped with PAL+ technology, which enables the colour temperature to be set flexibly between 2500 and 6500 Kelvin. The ability to adjust the quantity of light and the colour temperature ensures that the exhibited works of art are viewed under the best possible lighting conditions.

The museum tour continues via the northern staircase in Salzburg Cathedral. The winding staircase is discreetly illuminated by a centrally mounted Torino pendant luminaire. LED lighting integrated into the soffit of the staircase construction lights the stairs all the way to the top. In order to realise the new museum tour route it was necessary to vacate one of the floors used by the University of Salzburg. In order to be able to offer the university equivalent alternative space in the building, it was decided to convert the cathedral arches attic spaces. Echo LED recessed downlights in combination with indirect ICE Case LED luminaires provide standards-compliant indirect lighting in the lecture rooms and corridors. The design of these luminaires corresponded to the architect's wish that the lighting solution be integrated as discreetly as possible into the open roof structure.

**Northern oratory, DomQuartier, Salzburg, Austria**  
**Architects:** Gerhard Mitterberger, Graz (exhibition spaces)  
 and Heide Mühlfellner, Salzburg (attic spaces)  
**Lighting design:** Pürcher Planungs GmbH, Schladming  
**Luminaires applied:** Echo, ICE Case, Slash 2



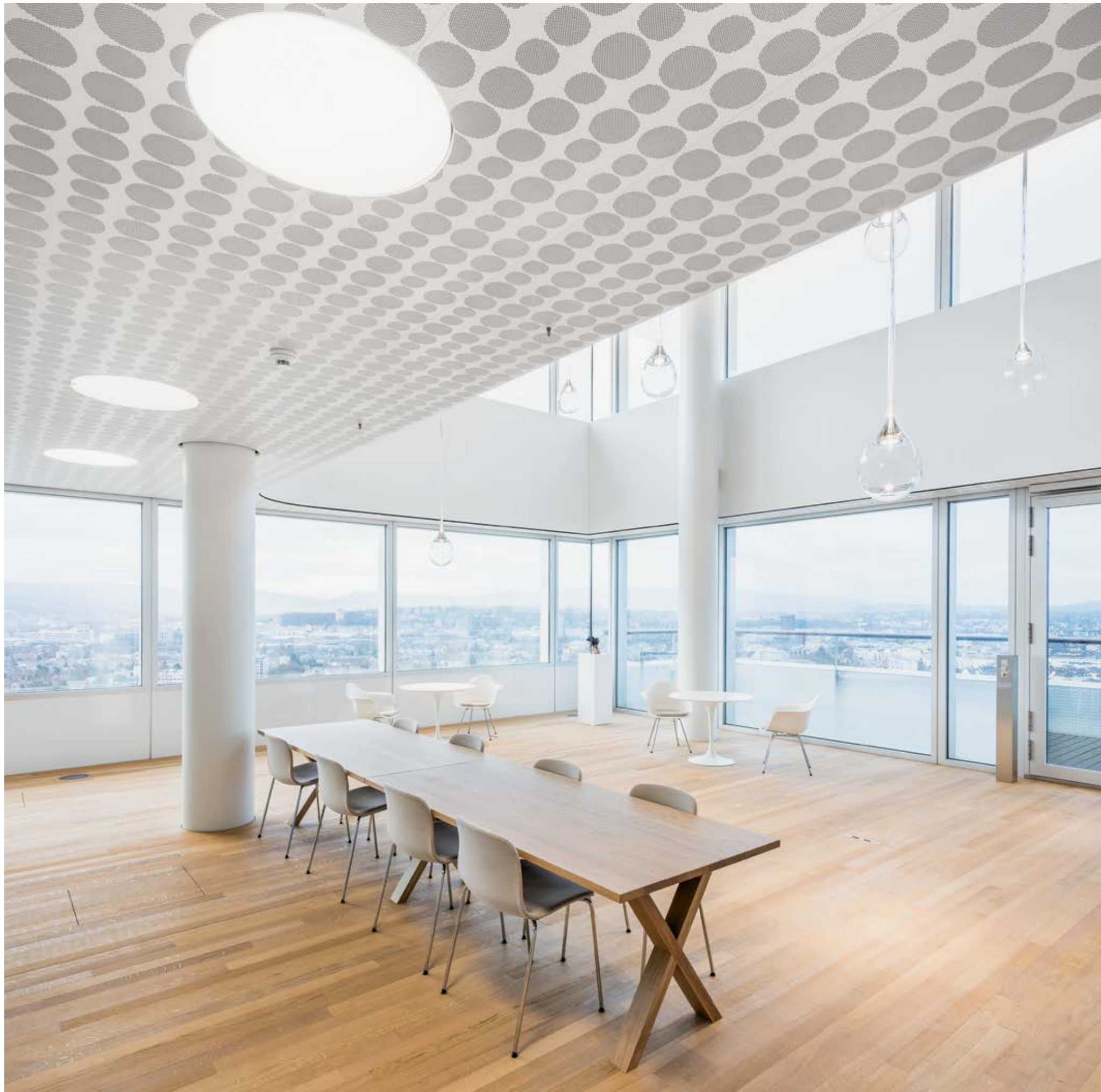




# MOST EFFICIENT LED OFFICE LIGHTING FOR THE TALLEST BUILDING IN SWITZERLAND.

Hoffmann-La Roche realises one of the most comprehensive LED office lighting concepts in Europe.





Basel's new landmark is clearly visible far and wide – the impressive office tower of the Roche pharmaceutical company. Designed and built by the renowned architects' firm HdM, the 178 metre high tower is the tallest building in Switzerland, providing space for around 2000 attractive, high-quality workplaces, and setting new standards when it comes to efficiency and sustainability.

Client expectations stipulated a level of energy efficiency that would meet Swiss Minergie standard requirements. It was presumed that one third of the primary energy would be consumed by the lighting. Tests were carried out on sample luminaires with the Regent solution coming out top thanks to excellent system efficiency ratings of up to 118 lm/W. The company reckons on a return-on-investment on the LED solution within a few years. Together with the energy saved thanks to the high light output, the company will also benefit from the lower life-cycle costs for LED products.

The specifications for the design of the round custom luminaires for the ambient lighting in the attractive and flexible office landscape came from HdM. Regent met the spec with products from the Solo LED range of recessed ceiling luminaires. A microprismatic diffuser specially developed for application with highly efficient LEDs delivers pleasant, glare-free light. In communication areas and the staff restaurant, decorative Tea LED pendant luminaires are applied, designed by HdM and Regent.

The Tea LED pendant luminaires are suspended at different heights – at up to 8.7 metres in areas that extend over several floors. One challenge comprised counterbalancing the luminaires in the case of movement in the building, especially on floors five to 32. The upper part of the pendant luminaire consists of metal tubes, which limits the amount to which the luminaire swings to and fro. Static calculations were carried out to determine the exact diameter and thickness required for the metal tubes.





“Wherever you are in the building: there are always places to meet and chat with colleagues. People should also be able to pause for a while on staircases without disturbing the flow.”

**Roche Bau 1, Basel, Switzerland**  
**Client:** F. Hoffmann-La Roche AG, Basel  
**Architects:** Herzog & de Meuron Architekten AG, Basel  
**General contractor:** Drees & Sommer Schweiz GmbH  
**Lighting design:** Reflexion AG, Zurich  
**Luminaires applied:** Customised version of Solo, Tea, Echo, ICE Basis, Zena



"At a height of 178 metres and with a lighting scheme powered solely by LED technology, the Roche Tower could well set a new record as the tallest lighthouse in the world."



## INTERVIEW

How luminaires for the future come to be.



Peter Steinmann is co-owner of the renowned architects' firm Steinmann & Schmid Architekten in Basel/CH. The firm's service portfolio ranges from project development to detailed design and planning to creative support during execution. Within the context of the Fossil project Peter Steinmann worked in close collaboration with Regent Lighting to develop the innovative Purelite linear lighting system. His experience and know-how led to the design and development of a lighting solution that meets architects' requirements and expectations to a tee.



“When a project leads to the development of the flattest surface-mounted luminaire ever.”

**How is it that an architect ends up initiating a complex lighting solution?**

It's not that surprising, really. Light, and how to apply it, is key to every project we are involved in.

**How do you mean?**

The lighting solution is essential part of the architectural concept. For architects, light either plays a subordinate or a functional role, or it is applied to accentuate or highlight objects or elements and thus plays a key role in setting the scene. Both approaches generally require lighting design to be addressed early in the planning phase.

**Understood. But what do you mean by addressing it early in the planning phase?**

To put it simply: when the height of the housing of recessed ceiling luminaires means they cannot be installed in the concrete beneath the rebars, this means labour-intensive interventions on the part of the construction engineer. And for the architect this means limited flexibility in the early planning phase.

**When it comes to recessed row lighting systems, what would you describe as an 'optimum' solution?**

As an architect I don't want to be tied down too early in the planning phase due to structural measures. A row lighting system needs to be as flat as possible and still deliver first-class lighting.

**Are they the only advantages such a luminaire can offer?**

No. Not at all. The trend towards hybrid ceiling constructions, which are designed to incorporate the entire building services engineering, also requires the luminaires to be extremely flat due to lack of space.



**What role does the ceiling construction play?**

70 per cent of the work we are commissioned to do are conversion projects – recessed luminaires are impossible to integrate. Simple suspended ceilings will no longer be applied in future. Slowly but surely they will be replaced by hybrid ceilings, which integrate heating, air-conditioning and acoustics components all in one element. These elements and components have a height of around 80 millimetres; so in order to be flush-mounted with the ceiling recessed luminaires need to be way below 80 millimetres high.

**And together with Regent you developed a solution?**

In the beginning we had a vision, and a lot of ideas as to how to get to the solution we were looking for. The idea was to develop a simple flat rail which would extend across the ceiling

and house the required electronics. Mounted onto that we envisaged an ultra-streamlined diffuser.

**And how did you go about it?**

What we embarked upon was actually real pioneering work, which meant we tried and tested a lot of ideas: from lines of light with transverse feed to high-voltage LEDs to low-voltage solutions. A very lively process with a lot of constructive brainstorming that took three years altogether.

**And do you think this would be possible with any lighting manufacturer?**

I wouldn't think so. A company must have a visionary view as well as the know-how and ambition to achieve perfect results. And they must never give up believing in the potential of an idea

in spite of all the hurdles that need to be overcome. In future, there will be more cases where the architect brings his vision to a company and develops this in collaboration with the manufacturer. The company must see themselves as a true partner to the architect. For collaboration to work, all partners must feel they are equal.

**And did Regent fulfil your expectations in this regard?**

I would say that the ultra-flat Purelite luminaire, which was presented for the first time at Light + Building in Frankfurt and will be going into series productions in the coming months, is the best proof of that. But the positive response I am receiving from many of my colleagues shows that our collaboration has resulted in a product which guarantees more flexibility when we are designing projects, and will continue to meet future requirements.





# PURIST CONCEPT.

Stringent lighting design concept for Vögele's offices and production facility.

In the Swiss town of Tegerfelden, near to the border with Germany, there is a new office and production facility. The building houses the headquarters of Vögele AG – and incorporates a large showroom, storage facilities, administration offices and a vehicle pool. Always up to speed when it comes to cutting-edge technology, Vögele offers services and products in the fields of sanitary, heating and solar engineering. The technological demands for the new building were correspondingly high. Only the most innovative and sustainable technologies were to be applied. Which also goes for the lighting.



The building is one way for the engineering specialists to demonstrate their accumulated expertise: the heating is generated by air/water heat pumps and cooling via cooling ducts cast in the concrete ceiling. Added to this is a controlled energy recovery ventilation system. The energy concept is complemented by a photovoltaic system on the flat roof. Energy-saving LED luminaires are installed in all sections of the building.

The solid building with outer walls made of reinforced concrete and brick is a clear-cut, cube-shaped structure. The lighting concept for the interior spaces aligns with this idea: the round luminaires of different diameters applied in the large lobby with the showroom space, as well as in the conference rooms and circulation areas, contrast convincingly with the clear, straight lines that are the dominant feature of the architectural concept. To ensure the simple, elegant design of the Solo LED luminaire could make its mark consistently throughout the building – even in spaces where suspended ceilings were not planned – the pendant version of the Solo LED was also applied.

**Vögele AG, Tegerfelden, Switzerland**

**Client:** Vögele AG

**Architects:** Schneider Spannagel Architekten AG, Döttingen

**Lighting design:** Erne Elektrotechnik GmbH

**Luminaires applied:** Solo, ICE Body, Act, Flow



# Inspired by music.

Listed building in Düsseldorf with the latest LED lighting.



Two new buildings, including a section with historic listed facades, form a unique office complex in Düsseldorf-Derendorf. Inspired by the cultural and artistic achievements of Clara and Robert Schumann, the office buildings have been named Clara & Robert. Robert comprises 7400 square metres of office space and is already leased to Warth & Klein Grant Thornton. The auditing firm were looking for a new building with enhanced visibility for their German headquarters.



Surrounded by heritage buildings and magnificent old trees, the modern facades of the Clara and Robert buildings are an explicit reference to music: the contrast of light and dark generated by the playfully arranged, narrow window openings of varying lengths are reminiscent of piano keyboards, rendering the architecture both vibrant and harmonious. Inside the building everything is designed to be efficient and flexible – supported by sustainable and innovative building services engineering.

The lighting was to be high-quality and cost-effective. The general lighting in the offices was realised using Item CLD pendant luminaires, which are regularly spaced and installed at an angle of 90° to the facade. This makes for a high degree of flexibility and provides good lighting at the workplaces. Viva LED recessed downlights ensure a pleasant atmosphere in the corridors and reception areas, and the restrooms and ancillary spaces are illuminated using Tekla LED recessed directional spotlights.

**CRD Clara and Robert, Düsseldorf, Germany**

**Client:** die developer Projektentwicklung GmbH, Düsseldorf

**Architects:** SOP Architekten, Düsseldorf

**Lighting design:** Ingenieurbüro Dohrmann GmbH & Co. KG, Essen

**Luminaires applied:** Item, Viva, Tekla





# EXCELLENT LIGHTING FOR EXCLUSIVE FASHION.

Shopping experience extraordinaire in the Schild fashion store.

Exclusive fashion – classic or modern, for business or leisure – can be found in the Emmen Center in Central Switzerland. The Schild fashion store invites customers to discover the latest men's and women's fashion from leading brands, plus a wide range of accessories.



The store has a surface area of 590 square metres and is designed to look fresh and modern. Light oak and walnut, coupled with glass, make for a friendly, welcoming atmosphere. Given that the company attaches huge importance to sustainability, the lighting concept is based exclusively on LED technology. Fresh, sparkling light with excellent colour rendering shows the garments on display, and the retail space as a whole, to their best advantage.

The ceiling heights vary from between 2.5 to 3.9 metres, which was something of a challenge, when it came to creating a balanced lighting atmosphere. The team installing the lighting was especially trained to be able to focus the luminaires to achieve the desired ambience in both the high and low-ceilinged spaces. Carda Competence luminaires, which are extremely flexible in application, were installed in the central areas. Polar spotlights are mounted in the low rear wall areas. The spotlights are retractable and ensure that the vertical surfaces are illuminated adequately up to the ceiling, thus ensuring the desired illuminance throughout the space and enabling shoppers to browse at ease in all parts of the store.

**Schild Store, Emmen, Switzerland**

**Client:** Magazine zum Globus AG

**Architect:** Mario Pianezi

**Luminaires applied:** Carda Competence, Polar, Vario 110



# UNIQUE DESIGN LANGUAGE.

Custom solution for the Kö-Bogen – an architectural masterpiece in Düsseldorf.





With his design for the Kö-Bogen (King's Bow) at the northern end of the Königsallee Boulevard in Düsseldorf star architect Daniel Libeskind has created a dynamic new attraction in the city. The large-scale office and retail complex in downtown Düsseldorf houses flagship stores of top international brands, restaurants and cafés, and a variety of office spaces.



The largest commercial space covers an area of 7000 square metres. The spaces were to feature a unique design language and be functionally flexible. When it came to designing the lighting to align with this brief a custom solution was required to meet the client's high expectations. Given the unusual floor plan, the challenge lay in providing lighting for the different sized and shaped office spaces which was compliant with the standards and as efficient as possible, while taking into consideration the image of the building in the cityscape, especially after dark.

Since it was not possible to apply recessed ceiling luminaires given the heating and cooling systems integrated into the ceilings, another solution had to be found: an ultra-flat surface-mounted profile painted in the same colour as the ceiling. This was realised using the Channel Office C-LED luminaire. The wave-like design of the façade and the lines of light arranged diagonally across the façade at an angle of 90° meant that the row lighting sections needed to be supplied in nine different

lengths. These are repeated on all floors and in all spaces as a hallmark of the design.

Regent supplied the profiles ready for mounting: cut to length, painted, and equipped with end caps. Special areas received Tekla LED downlights.



**Kö-Bogen, Düsseldorf, Germany**

**Client:** die developer Projektentwicklung GmbH, Düsseldorf

**Architects:** Studio Libeskind New York

**Lighting design:** Rhein Licht, Düsseldorf

**Interior architects:** two space, Ratingen

**Tenant consultants:** pro m², Düsseldorf

**Luminaires applied:** Channel, Tekla





## INTERVIEW

“The light of tomorrow must be intuitive.”



Interview with Hinrik Wachsmuth, Head of Marketing and Communications, Regent Lighting, conducted by Markus Frutig, editor-in-chief of ET Licht.

### What do you think of the Internet of Things, the Internet of Light, and connectivity?

We recognise that in future luminaires will be more intelligent and we will be equipping them with sensors and other devices which can be operated via Bluetooth, so we can benefit from all the opportunities afforded by digital technology. The “Lightuition” philosophy we refer to guides our process in our quest to find appropriate solutions.

### What do you mean by Lightuition?

Our Lightuition philosophy is a combination of becoming aware of the opportunities digitalisation offers, but always considering how intuitively these technical opportunities can be implemented. Without pages and pages of mounting or operating instructions, more of a plug-and-play philosophy. Plug-and-use solutions, so to speak.

### You have always been on the look-out for new opportunities. So what is new?

Using the digital technologies available today, there is practically no limit to the number of functionalities that can be built into a single luminaire. But this can quickly lead to becoming too much

for the user, confronting him with solutions that complicate rather than facilitate. It simply becomes too much for him to handle. Which is why we examine every digital technology that comes our way in order to determine how worthwhile and user-friendly it is.

### What solutions can Regent offer in this regard?

Light Hub.

### How does the intelligent Light Hub infrastructure work?

Luminaires are highly suitable for use in a comprehensive data collection and communications infrastructure in a building. The light source is connected to the mains and integral sensors can collect data which is not personally identifiable in real time. Recorded data is transferred via a central gateway to the Regent Cloud or the client’s own server, where it can be evaluated at any time by the data manager responsible.

### And what advantages does this bring for the customer?

The evaluation software generates a logical graphical representation of the recorded data. The high-precision sensors enable data collection for every single workstation. This

saves time when an employee is looking for a workplace that is not occupied. In fact, it provides the basis for increasing efficiency on different levels: capacity utilisation, energy consumption and future office layouts.

### Do you have any other solutions that benefit from digitalisation?

Mylights remote intuitive lighting control technology, for example. Mylights remote can be used to control any lighting scheme with the goal of saving energy and at the same time generating exactly the right mood or atmosphere. Mylights remote is easy to install and set up, and simple to operate and design with.

### To what extent is this technology different from conventional control solutions, such as DALI?

It does not require any wiring, switches, additional devices or complex networks. Luminaires are equipped with a wireless module. Once the luminaires are put into operation, they are automatically detected via tablet or smartphone, and can be operated or configured as required. For instance, you can drag and drop groups of luminaires or light scenes, completely independent of any electric wiring. Each luminaire serves as a network node and is connected to the other luminaires in the space.

### What is the tangible benefit of such a network?

If one node fails, the network is able to respond and create a “new” network. All compatible with iOS and Android devices for widespread usage. Security is obviously of crucial importance – network and settings can, of course, be password protected.

### Do you have any other new products lined up?

Yes. At Light + Building we were the first company to show mobile light sources. We set up a black box, and light robots mounted on the ceiling automatically detected a new visitor entering the box via his smartphone, moved towards him and then proceeded to accompany him through the space. The Motion Tracking Robots were developed in-house. This project is a future-oriented view of the lighting world in years to come. But who knows...

### Knows what?

How far away the future really is. Who would have thought just two years ago that Uber would be turning the entire taxi industry upside down?







# ALL REQUIREMENTS MET.

Holistic lighting concept for Huawei.



Huawei is a leading global information and communications technology (ICT) solutions provider and offers IT infrastructures, Cloud Computing solutions and end devices such as smartphones and tablets. The European headquarters of the dynamic company is based in Düsseldorf and occupies a five-storey office building that bears the name "Silizium".



In the beginning Regent was only involved with developing a lighting concept for the ground floor. Shortly before renovation work on the building commenced the assignment took on a new dimension. Huawei decided they wanted to occupy the entire building. The task was to meet the lighting requirements for each of the floors – using different luminaires but maintaining a consistent image. Within a few weeks a new concept and design was put together for all functional areas: a store, presentation spaces, offices, corridors, plus canteen, kitchen, stairwell and storage facilities. Thanks to close collaboration with the client and the tenant, together with their in-depth know-how, flexible way of working and extensive project experience, Regent was able to execute the order in a timely manner.

Since the lighting is required to fulfil different functions, the requirements for the lighting concept were highly diverse. Solo LED recessed ceiling luminaires welcome visitors in the entrance area. The store and the presentation spaces feature the corporate colours red and white. Recessed gimbal-mounted spotlights underscore the "Huawei experience" in this part of the building, highlight the products on display, and allow customers to immerse themselves in the innovative world of Huawei. Tweak CLD

LED free-standing luminaires provide optimum glare-free lighting in the office spaces.

The Channel LED row lighting system together with Echo 210 LED downlights help create a productive atmosphere for meetings held in the conference rooms. The circulation areas have received Viva LED downlights to support orientation, while the stairwells are illuminated efficiently and discreetly using the Flow LED row lighting system. Solo LED luminaires are applied in the bright and friendly canteen, inviting staff to relax and enjoy their breaks there.



**Huawei, Silizium, Düsseldorf, Germany**

**Client:** BEMA Development GmbH, Düsseldorf

**Architects:** BM+P Architekten, Düsseldorf; AJF Architekten, Düsseldorf

**Electrical engineering:** E-Projekt, Münster

**Luminaires applied:** Solo, Tweak, Flow, Channel, Viva, Echo 210



# Cars on holiday.

Sustainable lighting for a parking garage in the Swiss mountains.

The Aletsch Arena tourism region in Switzerland is highly popular amongst mountain lovers from all over the world. Not least thanks to the idyllic peace and quiet in the pedestrian only Alpine villages. But where can you leave your car if you go there for a day trip or a week's holiday? Cars can also enjoy a holiday in the conveniently located Aletsch parking garage.



The Aletsch parking garage is located in the municipality of Mörel-Filet in the Swiss canton of Valais. And the cable car at Riederalp in Aletsch Arena is just a two-minute walk away. The parking garage, which has space for 230 cars, is owned by a family company. In spite of the relatively low ceiling heights, the excellent lighting conditions in the parking garage make for a good start to a car-free day – or holiday. The lighting was realised using Regent's Traq system, which features highly efficient LED technology.

A further big plus point of this row lighting system for the electrician: the system is extremely simple to install, operate and maintain. A cleverly devised spring catch mechanism enables the components to be positioned flexibly and mounted in seconds. Thanks to an intelligent power supply concept and simple connection technology the luminaires were promptly mounted on the long supporting rails on the car park ceiling.

**Aletsch Parking, Mörel-Filet, Switzerland**

**Client:** Parking Aletsch GmbH, Mörel-Filet

**Architects:** Steinmann & Schmid Architekten AG, Basel

**Electrical installers:** TZ Stromag, Brig-Glis

**Luminaires applied:** Traq row lighting system (Traq Case LED)





# A HIGHLIGHT FOR GOURMETS.

Shop design and lighting concept for Globus Delicatessa in Zurich.





When the new Delicatessa in the heart of Zurich opened its doors after more than two years of construction work it was pretty clear: no stone had been left unturned. In the high-quality food hall in the Globus department store, the idea of the client and the architect was to make a truly fresh start. The result is a gourmet's paradise. Warm oak flooring makes for a cosy atmosphere, with glazed sections providing a glimpse behind the scenes – customers can witness live when delicacies are smoked or cheese is refined using exquisite ingredients.

In order that the delicacies for sale in the 1200 square metre space not only taste delicious, but also attract the attention of the gourmet shoppers, a first-class lighting solution was of essential importance. The lighting concept was required to blend to an optimum with the high-quality materials used for the interior architecture.

The luminaires applied – all with a colour temperature of 3000 Kelvin – were Carda, Globo, Prestige Carda and Polar Universal. The exclusive Globo spotlight was custom designed for the Globus project. By carefully adjusting the reflectors to generate beam angles of 15 and 24 degrees it was possible to focus the accent lighting for the goods on display to perfection.

**Globus Delicatessa, Zurich, Switzerland**

**Client:** Magazine zum Globus AG

**Architect/electrical installers:** Magazine zum Globus AG, Michele D'Ambrosio

**Luminaires applied:** Carda, Prestige Carda, Polar Universal





# Different requirements – single-source solution.

Federation of the German Foundry Industry opts for LED.



The modern headquarters of the German Foundry Industry in Düsseldorf correspond with the image the association has of itself and enables a number of different divisions and functional areas to be housed under one roof: a completely renovated administration building to accommodate classic association activities, a new extension for chemical and mechanical laboratories, and a test foundry for the analysis of materials and the optimisation of metallurgical processes. A single-source LED solution developed together with Regent supports the architectural concept.



On the strength of a convincing concept delivered by Regent, the lighting design originally planned from a cost perspective using conventional light sources was replaced by a solution using LEDs only. The payback period for the approximately 20 per cent higher investment required amounts to between five and seven years. This is thanks to measurable energy savings of around 50 per cent, lower maintenance costs and a longer lifespan. Besides saving energy, the LED luminaires also guarantee completely uniform lines of light.





Anyone entering the new Foundry Industry building is immediately aware of the strength of this branch of industry. It is an important supplier for the automobile industry and the mechanical and plant engineering sectors, to name but a few. The representative entrance and reception area is a bright, uniformly lit space. This is achieved using round, ceiling-recessed Solo LED luminaires with a luminous efficacy of up to 114 lm/W. Linear surface-mounted Flow LED luminaires with a luminous efficacy of up to 102 lm/W provide the general lighting in the conference rooms, offices and circulation areas. Dimmable versions are applied in the conference spaces. These are complemented by Kronos LED recessed gimbal-mounted spotlights. These square LED downlights feature excellent colour rendering and make for an energy-saving alternative to gimbal-mounted halogen spotlights. Tweak CLD LED

free-standing luminaires equipped with presence detectors and daylight sensors are positioned next to the workstations.

Whereas the lighting in the administration building was realised using shorter lines of light, in the laboratory and workshop area, where higher illuminances are required, longer sections were applied – some as much as 12 metres in length. Flow LED pendant luminaires deliver the lumen packages required in the approximately 700 square metre chemistry laboratory. The mechanical laboratory and the test foundry have received moisture-proof Splash LED pendant luminaires. Technical LED luminaires from Regent support the visual tasks performed in the Institute of Foundry Technology with high efficiency.



**Federation of the German Foundry Industry, Düsseldorf, Germany**  
**Client:** BDG – Bundesverband der Deutschen Giesserei-Industrie e.V., Düsseldorf  
**Architects:** BM+P Architekten Hesse Haselhoff, Düsseldorf  
**Luminaires applied:** Flow, Tweak, Kronos, Solo, Splash



# Spot on solution.

Vodafone flagship store with tailor-made lighting.



The new Vodafone flagship store in Dortmund is designed to be a hands-on experience and a journey of discovery. Mobile communications, Internet, home networks – all a customer could ever want – is displayed on an array of tables and action areas, inviting shoppers to browse and explore. The flagship store provides the highest level of service and a comfortable, friendly atmosphere in bright, spacious rooms with simple, stylish furnishings.

With regard to the lighting concept for this store and future trendsetting outlets Vodafone expressly wanted the luminaires to take a back seat and the light itself to impact the space. To achieve this the gear tray on the Matrix LED spotlights was modified so that they could be mounted between the wooden slats within the ceiling design and remain practically invisible to customers.

The recessed spotlights were to correspond design-wise with the track-mounted spotlights, giving the impression they are part of the same range. This was achieved by creating custom designed housings for the recessed downlights. The reflectors can be swung out of the housing via a hinged bracket and adjusted to achieve the required beam coverage or aligned to be flush with the ceiling. Pleasant, glare-free ambient lighting is provided by large, round Solo Office C-LED recessed ceiling luminaires.



**Vodafone flagship store, Dortmund, Germany**  
**Client:** Vodafone GmbH, Düsseldorf  
**Architects:** Schubert 2 Architekten, Ratingen  
**Lighting design:** Die Lichtplaner, Wesel  
**Luminaires applied:** Matrix, Solo





# "CHILD'S PLAY."

Lighting underscores the organic spatial concept in a French school.



The architect responsible for the school complex in Saint-Denis was faced with the classic challenge inherent to all public projects: designing spaces for a wide variety of functions and combining and housing them under one roof. The kindergarten and primary school areas were based on an overall organic concept. Despite the complexity involved in realising this, the goal was to achieve an air of simplicity. As architect Paul Le Querrec put it: the users were to experience the facility as if it were “child’s play”.



Each of the spaces contained in the approximately 4500 square metre floor plan was to find its own natural niche, and the boundaries between the spaces also to serve as links. The pre-school area features flowing, round forms, which make for a playful ambience coupled with a feeling of security. In contrast, the primary school features a strictly rectangular formal language – in line with the rational transfer of knowledge that takes place there.

The complexity of the project called for a simple and adaptable luminaire solution which would lend itself to the overall design concept. The Solo range supports this intention given that it comprises many different versions and can be surface-mounted or recessed in concrete or plaster ceilings. Visually speaking, the individually designed spaces therefore receive a key unifying element based on the round form of the Solo luminaires.

The architect attached great importance to incorporating natural daylight in all spaces – via extensively glazed facades and by constructing the ceilings accordingly.

To support this idea, in specific spaces the lighting concept incorporated luminaires that allow colour temperature and illuminance to be adapted to align with daylight conditions. In such cases Solo LED luminaires equipped with “Tunable White” were applied together with a lighting control system.



**Groupe Scolaire Trezel, Saint-Denis, France**

**Client:** The municipality of Saint-Denis

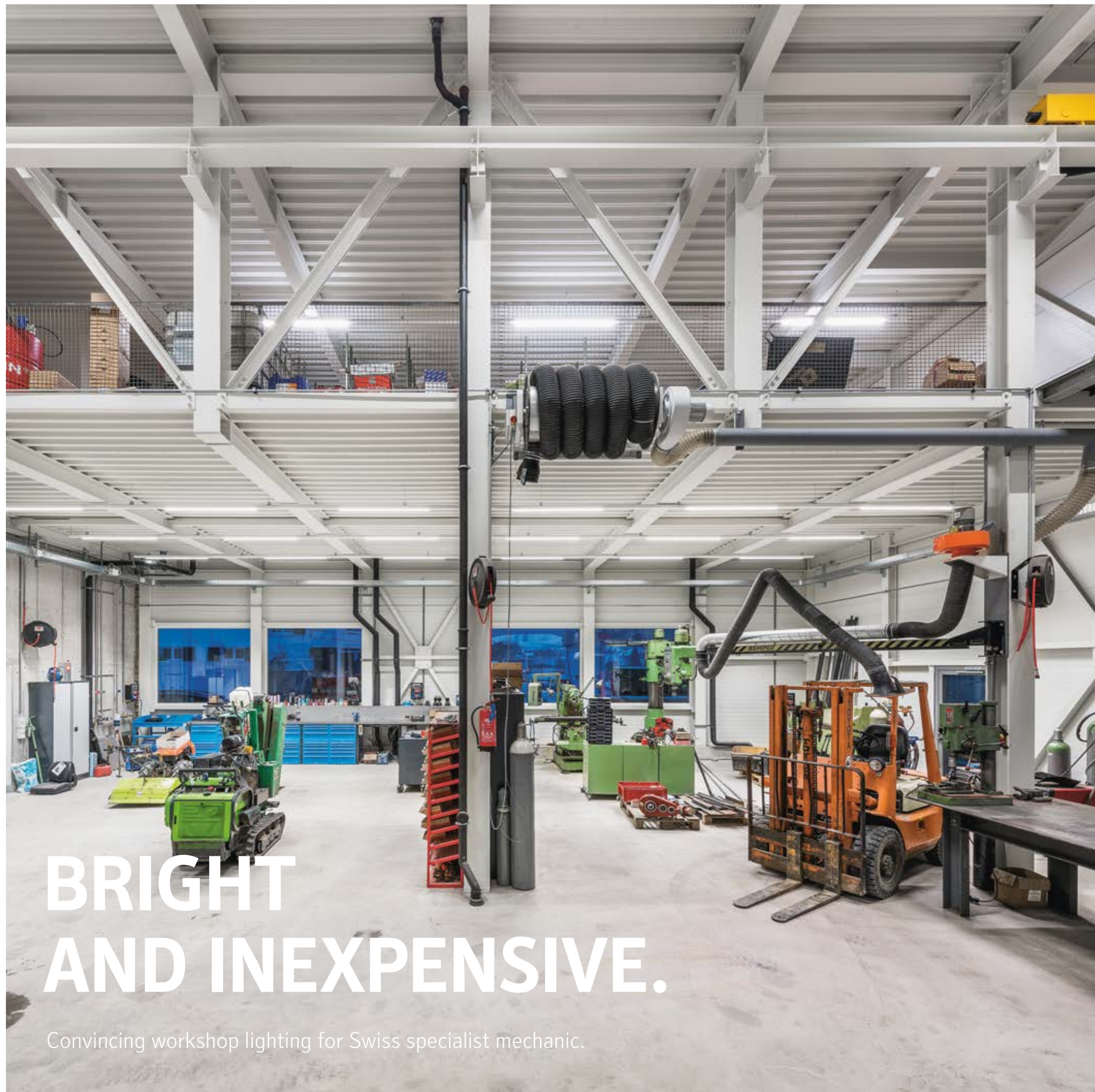
**Architect:** Paul Le Querrec

**Electrical installers:** BEE FL (BET électricité)

**Luminaires applied:** Solo (some with Tunable White), Echo, Tekla







# BRIGHT AND INEXPENSIVE.

Convincing workshop lighting for Swiss specialist mechanic.

Pius Meier is a professional when it comes to performing repair and construction work or conducting overhauls. When he first founded his company he was on the road a lot, taking care of his customers' building, agricultural and forestry machinery on site. In the meantime, much of his work as a hydraulics specialist takes place in his spacious new workshop. The new facility he has had built in the Mellingen industrial estate in the canton of Aargau incorporates the workshop and his private residence.



The requirements for the lighting in the new workshop sounded simple enough: it needed to be bright and inexpensive. As if on cue, this was around the time when Regent launched their new LED Traq range. The luminaires applied in facilities where work such as grinding and welding are carried out need to be adequately protected. For this reason, the Traq system applied is equipped with special seals. This solution is far more convincing than one based on fluorescent lamps – not only in terms of energy efficiency, but also with regard to initial costs. High illuminances can be realised with considerably fewer luminaires.

**Pius Meier, Mellingen, Switzerland**

**Client:** Pius Meier

**Lighting design:** Elektro Zollinger AG with Regent Beleuchtungskörper AG

**Luminaires applied:** Traq row lighting system (Traq Case LED)



# INNOVATIONS MARK CONTINUING SUCCESS.

Unusual and flexible lighting solution for Swiss Post.





When it comes to postal services, Swiss Post is recognised as one of the world's innovation leaders. In order to maintain this leading position a modern office environment for more than 1800 employees has been built at the Swiss Post new headquarters. The eight-storey building in WankdorfCity in Bern incorporates zones for concentration, regeneration and interaction. A desk-sharing concept – very much in line with the corporate culture – calls for a high degree of flexibility.



The brief for the lighting was likewise demanding. The client's requirements were met using two specially designed, standard-compliant LED luminaires from Regent. In the reception area, rectangular elements measuring up to two times five metres are geometrically intertwined to create huge, freely suspended luminaire structures. The circulation areas and the auditorium have also received these floating, sculpture-like luminaires. The custom luminaires in the exhibition and restaurant feature a similar formal language: LED spotlights and flat LEDs equipped with diffusers deliver the appropriate illuminance and atmosphere.

In the office spaces the desk-sharing workstations also called for a flexible solution that would comply with the standards for office lighting. This is achieved using customised Tweak CLD LED free-standing luminaires at the two person workstations. The luminaires are equipped with two sensors to enable data collection for each individual workstation. The operating element integrated into the stand was purposefully positioned to align with desks which are adjustable in height. The ALONE at WORK® is a self-configured, wireless networking system which enables luminaires to communicate with one another at the close of day, creating pleasantly lit areas around the occupied desks instead of lonely pools of light.



**Headquarters of Swiss Post, Bern, Switzerland**  
**Client:** Swiss Prime Site AG, Olten  
**Architects:** atelier ww Architekten SIA AG, Zurich  
**Lighting design:** Lichtkompetenz GmbH, Zurich  
**Luminaires applied:** Tweak with ALONE at WORK®, Echo



# High energy efficiency and good design.

Sustainable lighting for the gift shop at Mariastein Abbey.



Mariastein is known far and wide as a place of pilgrimage, its aura and reputation going far beyond national or denominational boundaries. The reasons for its popularity lie in the religious, cultural, historical and touristic significance of the site itself, together with the hospitality of the Benedictine monks. In the gift shop visitors are welcome to browse through a wide variety of books and other items, which are perfectly displayed thanks to an energy-saving lighting concept.

Access to the abbey, which is built on a rock, is via the historic pilgrimage route. This leads up to the square in front of the church which comprises a hotel, the abbey estate and the gift shop. The shop window display is appropriately illuminated using small, elegant Matrix Mini LED spotlights. These are also applied, together with highly efficient Matrix LED spots, in the retail space. Both spotlights are from the Matrix range. They are highly efficient and ensure glare-free lighting and near-natural colour rendering.

Regent provided support for the lighting of the gift shop in the concept phase, developing a design that would present the items on display effectively. These include objets d'art, books, religious articles and edible gifts. The result for the client: a design-oriented, cost-effective lighting solution from one source, comprising surface-mounted track and purposefully applied spotlights.



**Gift shop at Mariastein Abbey, Mariastein, Switzerland**

**Client:** Ladenbau + Montage AG

**Luminaires applied:** Matrix, Matrix Mini





**Light to promote  
an air of privacy.**

A staff restaurant is the place people like to feel they can retreat to for some privacy during the working day, but it is also where colleagues meet and chat. A balancing act that light can help to ease.



# Symbiosis between function and design.

AXA Winterthur now housed in the new Superblock administration building.

The building complex located on the site which formerly belonged to the Sulzer industrial engineering and manufacturing company in Winterthur combines industrial history and the modern age: listed factory buildings have been preserved and equipped with state-of-the-art building technologies. In the six-storey building, which meets Swiss low-energy Minergie standards, AXA Winterthur offer over 1000 employees a modern working environment in the heart of the city centre.



**AXA Winterthur, Winterthur, Switzerland**

**Client:** AXA Leben AG

**Architects:** Architekt Krischanitz ZT GmbH, Zurich

**Lighting design:** R+B Engineering AG, Zurich

**Luminaires applied:** Channel, Slash, Solo

To develop the typical open-plan office layout a series of open work areas were installed. Each work area provides zones for different office activities: open office areas with fully equipped workstations, functional workplaces for short-term office work, areas for ad hoc discussions and lounges, recreational areas, meeting rooms and places to retreat to in order to be able to work undisturbed. In all these areas the luminaires had the standard function of providing illumination, but this was to be delivered as discreetly as possible. The lighting for the workplaces was therefore installed in the hybrid ceiling sails. The focus when it came to these customised recessed luminaires was on high functionality.

In other parts of the building the luminaires were to remain visible as a design element. The challenge here was to achieve a symbiosis between function and design. In the circulation zones the luminaires are a design element, purposefully applied to be seen and enjoyed as part of the ambience – a target that was met in all areas to an optimum using pendant luminaires and specially designed luminous ceilings. The skylight in the staff restaurant deserves special attention. During the day light pours into the space from outside. As the day comes to a close and darkness falls invisibly mounted Slash LED luminaires take over the task of lighting the space. Pendant luminaires promote an air of privacy at the individual tables.







## The alpine world in an array of dazzling colours in the heart of Milan.

Convincing solution for the Colmar Lab new concept store.

The history of the Colmar company dates back to 1923, when they initially focussed on workwear. In the 1930s Colmar began to produce sportswear for winter sports, primarily skiing, laying the foundations for major innovations. Over the years they added clothing for golfers, beachwear, and an activewear collection.



In line with their reputation as a leader in the field of innovative sportswear, the fashion label recently opened the Colmar Lab new concept store in a trendy part of Milan. With their new 210 square metre flagship store, Colmar is ready to inspire customers with their latest innovations. The idea was to create the whole world of Colmar in a space with a seven metre high ceiling. To meet Colmar's expectations and to satisfy sustainability criteria Regent collaborated closely with the client to

develop a special lighting concept. 309 Matrix LED spotlights are integrated discreetly into the ceiling structure, highlighting the products on display. In spite of a ceiling height of seven metres the fashion sportswear is presented in its true colours without disturbing shadows. Using state-of-the-art LED technology energy consumption was cut by 50 per cent and maintenance reduced to almost zero.

**Colmar Store, Milan, Italy**

**Client:** Colmar

**Lighting design:** Illuminare S.r.l., Parma

**Luminaires applied:** Matrix, Global Trac

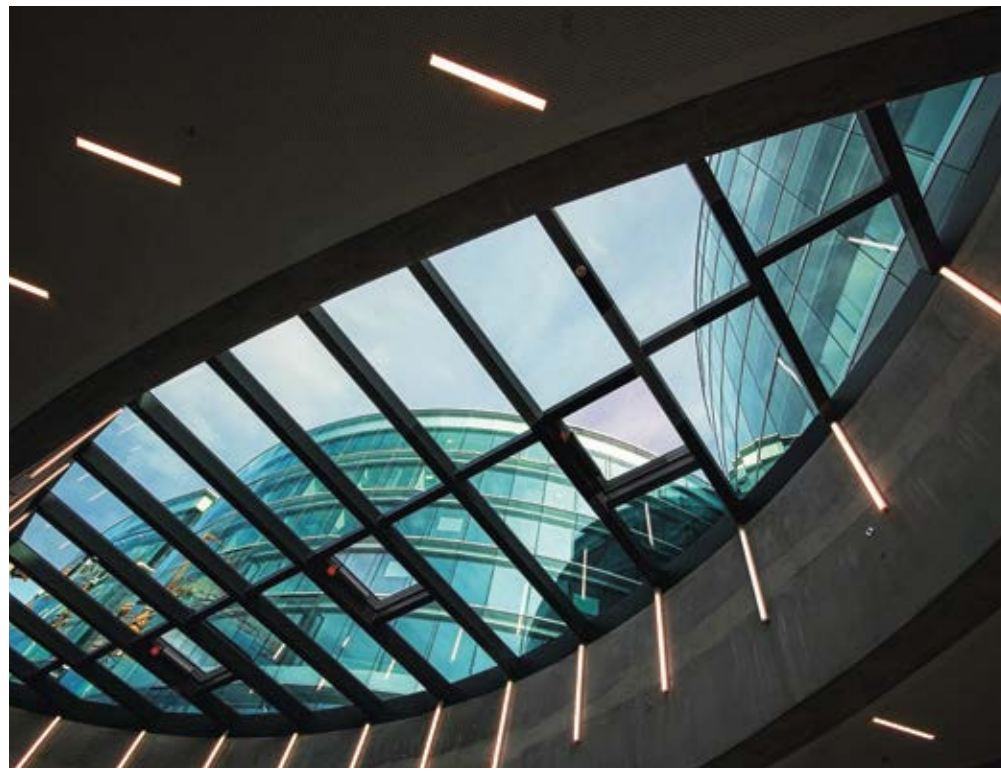


The image shows a large, multi-story office building interior. A prominent feature is a white, curved spiral staircase that winds through the space. The building has multiple levels, each with glass-walled offices and corridors. The architecture is modern and minimalist, with a focus on transparency and open spaces. The lighting is bright, and the overall atmosphere is clean and professional.

# HOUSE OF PEACE LEAVES LASTING IMPRESSIONS.

The Maison de la Paix in Geneva features round forms and a high level of transparency.





Shortly before arriving in Geneva by train, passengers are able to catch sight of a highly original structure comprising five acute-angled ellipses, the shape of which is reminiscent of the petals of a flower. The highly transparent building with its curved, glazed facades was designed to house the “Maison de la Paix”, a Graduate Institute dedicated to international studies and peace-keeping.

The structure with its unique floor plan is completely void of linear features inside the five “petals”: there is not one single straight wall to be found inside the building, and even the floors are connected via spiral staircases. The lighting solution was required to underscore the architectural concept and to consume as little energy as possible. The LED solution proposed by Regent blends in harmoniously with the undulating forms and meets the Minergie standard for energy-efficient buildings.

A custom designed version of the linear Flow LED surface-mounted luminaire was developed to enable the lighting system to be integrated into the undulating ceilings. This meant reducing the height of the housing to ensure it could be mounted flush with the ceiling. The Slash LED recessed luminaire lent itself perfectly to installation in the suspended ceilings. A further challenge was to ensure the spaces were uniformly lit in spite of the reduced installation height of the Slash 2 LED luminaires. Given their absolutely uniform light distribution, recessed Channel LED luminaires were applied to highlight the steel framework in the conference rooms, creating an impressive ambience with a subtle hint of drama.

**Maison de la Paix, Geneva, Switzerland**

**Client:** Steiner SA commissioned by the Graduate Institute of International and Development Studies

**Architects:** IPAS Architectes SA, Neuchâtel

**Luminaires applied:** Slash 2, Flow, Channel





# FAST FOOD WITH HIGH CLAIMS FOR QUALITY.

New concept for the Burgermasta fast food chain in Vienna.



High-quality furnishings featuring lots of wood, warm colours and good lighting make for a pleasant ambience at the newly opened Burgermasta fast food restaurant in Vienna. The “Fast-Casual” concept combines all the advantages of fast food with high claims for quality. The ingredients are fresh and delivered by farmers from the region, a fact which the fast food restaurant likes to demonstrate. The burgers and other food are served on china plates with cutlery. Attention was paid to creating a cosy, homelike atmosphere to encourage patrons to stay longer.



In line with the promising gastronomical concept – a contemporary approach combining casual dining with a healthy diet – the lighting in the new Viennese “eatery” is designed to promote the appropriate atmosphere. Given the high-quality regional specialities that Burgermasta offers, a dining space was required that people associate with cosiness and sociability. This is further supported by the desired “as if made by your own Mum” eating experience.

The prime target was to achieve a clearly defined lighting scheme comprising coherent lighting levels and luminous colours. Different lighting situations were created for the work, display and seating areas using customised product solutions from Regent. The lighting moods can be adjusted to align with daylight conditions. LED technology was applied to achieve optimum energy consumption and operating values.

**Burgermasta, Vienna, Austria**

**Client:** BURGERMASTA Gastronomie GmbH

**Interior architects:** Vrana Shopdesign GmbH

**Luminaires applied:** Poco System EFT, Channel, Minimo, Splash



# Best to test.

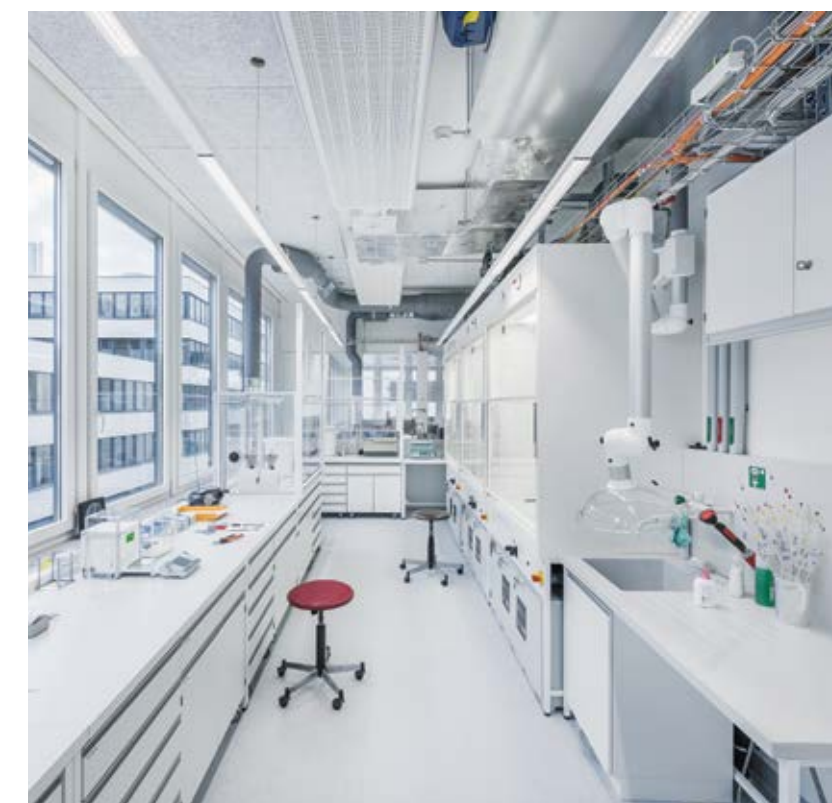
First-class LED lighting for Swiss test facility.



A leader in the field of testing laboratories, Intertek has a network of more than 40,000 employees in 1,000 laboratories and offices all over the world. Intertek has been providing services to companies for over 100 years to guarantee the quality and safety of their products, and the processes and systems they apply. The group is able to handle accreditation, certification and approval documentation for a wide range of industries and has acquired a unique level of knowledge and know-how when it comes to overcoming regulatory obstacles, market barriers and supply chain issues.

When it came to developing a lighting concept for the Swiss test facility the focus was on ensuring the lighting system was efficient and could be installed quickly. The Reinach facility primarily performs testing services for the chemical and pharmaceutical industries. The laboratories are designed to meet the latest standards, and can be used flexibly and for various purposes – from testing labs to pharmaceutical production to office space. The lighting was therefore required to be able to address the needs of the different uses of the spaces, and to guarantee best quality light throughout, without compromise.

The Traq row lighting system was convincing from the start. It delivers optimum lighting in the lab rooms, where it is imperative to have the right illuminance and no glare in order to be able to reliably carry out different testing procedures. And with the range of optics available, the system can be equipped in order to cater perfectly to the different situations. The Traq system is easy to install and provided a cost-effective and highly efficient solution. Full marks!



**Intertek, TechCenter Reinach, Switzerland**

**Client:** Intertek (Schweiz) AG

**Architect:** Hans-Jörg Fankhauser, Fankhauser Architektur AG, Reinach

**Luminaires applied:** Traq row lighting system





Transparency is a top priority for heating technology specialists, and can be rendered more visible through an intelligent lighting concept.





## Spacious architecture and high quality of light.

Open-plan spaces in the Vaillant head office in Vienna.

The open-plan spaces in the Austrian head office of heating technology specialists Vaillant are designed to promote communication with customers and among the teams, as well as help to improve internal procedures and workflow. The spaces have been designed in accordance with the latest findings in the field of industrial psychology.

The design of the head office, which is situated near the Wienerberg business district and is easy to access, was to underline the qualities that have made Vaillant so successful in the market: transparency and drive. The 4000 square metre premises comprise a customer centre, a training centre and office spaces for 130 members of staff. The combination of directed light and evenly spread light in the open-plan offices makes for a productive and pleasant working atmosphere. Dime LED pendant luminaires deliver standard-compliant direct lighting and, thanks to their special lens optics, wide-beam indirect lighting across the ceiling. The conference rooms and circulation zones have received surface-mounted or recessed Dime luminaires – a highly efficient solution for enhanced light quality.

The customer centre provides the opportunity to get to know what Vaillant offers in the way of products and services or consultation regarding the different solutions available. In this part of the building and in the spacious circulation areas, including the cafeteria, round Solo LED recessed ceiling luminaires add a creative touch. Specialist training modules for skilled tradesmen, sales partners and institutional decision-makers take place in the training centre. The lighting in these bright and friendly spaces can be flexibly adjusted to suit the size of the group and the task at hand. The goal is to meet the high expectations of a premium brand. Which is why the lighting also needed to be high-quality. The training rooms have received the Traq row lighting system and Poco System EFT recessed directional spotlights – controlled individually, but each dedicated to one of the Vaillant products on display there.



**Vaillant head office, Vienna, Austria**  
**Client:** Immofinanz  
**Architects:** Tulzer & Osterauer  
**Luminaires applied:** Dime, Solo, Traq row lighting system, Poco System EFT, Medra, Flow



# Clouds of light for office landscapes.

Vodafone Germany sets high demands for flexibility, energy-efficiency and ergonomics.

The Vodafone Campus in Düsseldorf incorporates the German headquarters of the telecommunications company and accommodates a staff of around 5000. The new, ultra-flexible open-plan concept meant a quantum leap for the company. According to an in-house survey, over 80 per cent of the employees claimed that the intelligent lighting solution was conducive to enhancing well-being in the new office spaces.



## Vodafone Campus, Düsseldorf, Germany

**Client:** die developer Objekt Düsseldorf VCD-Realisierungs-GmbH & Co. KG

**Architects:** HPP Architekten, Düsseldorf

**Lighting design:** Mertens AG, Quickborner Team, Vodafone

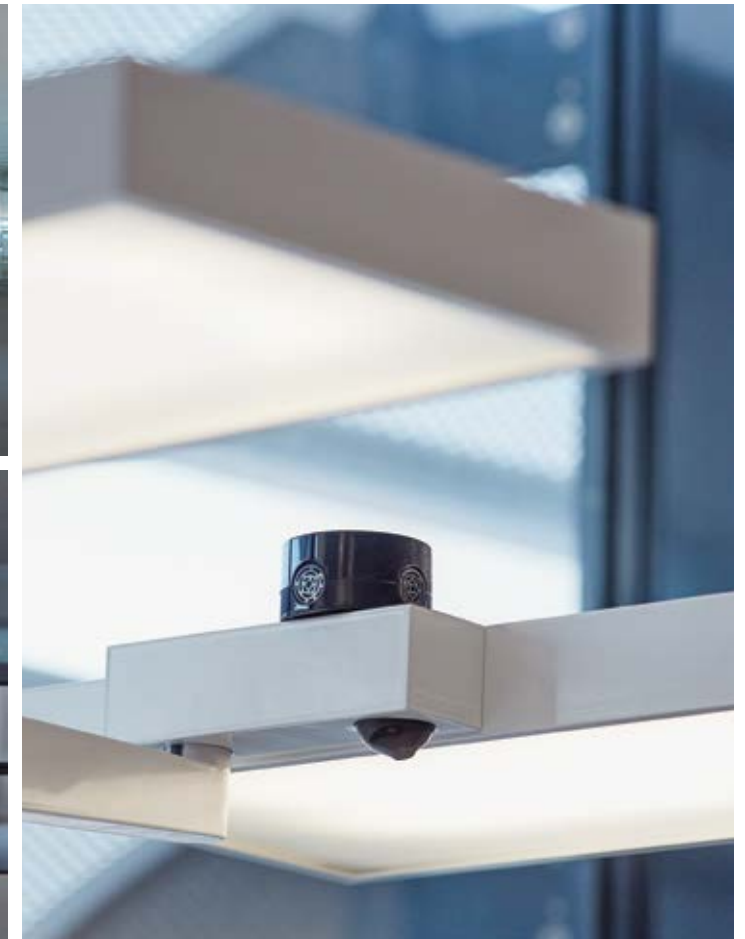
**Luminaires applied:** Level with ALONEatWORK®, Item

When planning this large-scale project, it soon became clear that the lighting solution would comprise free-standing luminaires in order to enable office layouts to be re-aligned quickly and easily, as required. The client requested an uncomplicated solution to network the luminaires, and had very high demands with regard to energy efficiency and ergonomics at the workplace. As the result of an intensive dialogue between the decision-makers at Vodafone, Mertens AG and Regent, the team opted for the intelligent ALONEatWORK® solution, which other customers are also benefitting from in the meantime.

A total of 2300 Level CLD free-standing luminaires have been applied in the open-plan office spaces in the office block. On every floor, the free-standing luminaires located in close vicinity to one another are networked via wireless communication.

Equipped with the ALONEatWORK® module, they provide optimum lighting at individual workstations across the day and ensure the illuminance levels in the respective office environments are to standard.

The light clouds created by a group of intelligent luminaires promote concentration and a sense of well-being. The luminaires can be repositioned at any time without any costly re-programming. The energy-efficient lighting fulfilled one of the criteria required for having the office building LEED Gold certified in accordance with the Green Building Standard.







Kalifornien

Wallis

Südtalien

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Veneto

Italien

Italien

bestseller

**FOR GOURMETS  
OF WINE.**

Setting the scene for culture in bottles at Schüwo.



Founded as fruit juice bottlers in 1946, today Schüwo is the largest independent beverage retailer in German-speaking Switzerland. In their main branch and four subsidiaries they have a staff of 88, who are responsible for a huge range of soft drinks and wines comprising more than 5500 different products. Their specialist outlet in Wohlen was recently renovated and the surface area practically doubled to 900 square metres.



The customers – ranging from wine merchants to private individuals – love to wander through the store, discovering and tasting different fruit juices and wines before committing to buying. One special highlight is the wine-tasting machine. Customers can taste up to 16 different wines a day just by helping themselves, and can naturally always rely on the advice and service of a competent sales person, if desired. Lovers of good wines are welcome to register for training courses held in the company's own seminar facilities.

The selection of wines seems to be boundless, but the structured spatial concept helps the customer find his way around. ICE Basis LED batten luminaires for continuous row mounting provide the general lighting in the section where beer, mineral water and juices are displayed. Discreet slots incorporated into the reflector also put light onto the ceiling. Wines and spirits are accentuated using Matrix LED spotlights mounted on the ceiling. Each bottle is highlighted to perfection, underlining the noble, unique quality of the contents. Exquisite Torino LED pendant luminaires are applied in the checkout area, which consequently stands out from the other sections of the store. The seminar space, which can be split into different rooms using sliding walls, is well lit using Solo LED recessed luminaires.



**Schüwo AG, Wohlen, Switzerland**  
**Client:** Schüwo AG, Wohlen  
**Architects:** Xaver Meyer AG, Villmergen  
**Luminaires applied:** Matrix, ICE Basis, Global Trac, Torino, Solo



# Nostalgia and modern technology.

Shopping at Migrolino's beneath historic vaults.

The railway station in Gossau in the Swiss canton of St. Gallen has a very special nostalgic flair. Just by looking at the noble building, it is easy to imagine the hustle and bustle that went on here over 100 years ago. In the age of industrialisation the community grew even more and the route run by Appenzell Railways from Gossau to Herisau was key in this regard.



The listed railway building has now been renovated and Migrolino have set up a modern store inside the historic walls. Perfect for spontaneous shopping: the 122 square metre retail space comprises a wide range of everyday products, their motto being "fast, easy, fresh". The shop is open from 6 am to 10 pm – 365 days a year. The lighting for the sales space was demanding, since great respect had to be paid to the historic vaults when mounting the luminaires. Plus the fact that additional components such as cameras and presence detectors were to be integrated into the system.

It was not permissible to drill a lot of holes in the ceiling, and the columns were not to be touched at all. For safety reasons, it

was also not permissible to drill holes in the floor. The Traq row mounting system fulfilled all requirements, given that it only requires a minimum number of drill holes (one fixing point every 3.6 metres for pendant mounting of the Traq system) thanks to its high rigidity and 11-pole internal wiring. This meant that the electrician could ensure a connection voltage of 230 volts. The additional security components desired could then be directly click-mounted onto the track and were immediately connected. The beautiful vaulted ceiling is shown to advantage through the creative interplay of light and shadow, and the commodities on display are highlighted to look tasty and appealing using Matrix LED spotlights.

**Migrolino Convenience Shop, Gossau railway station, Switzerland**

**Client:** Migrolino AG, Suhr, via Retailpartners AG

**Architects:** 0815 Architekten BSA GmbH, Biel

**Lighting design:** 0815 Architekten and Burkhalter Technics AG

**Luminaires applied:** Traq row lighting system, Matrix





# Light to treat dementia.

Home and care centre for the elderly embarks on a new route: leading to Zofingen.

The architectural design of the care centre makes it very clear that the facility is a separate entity – in contrast to the acute care hospital the patients require special care and their stay is expected to last longer. The lighting concept supports the multiple roles the elderly people's home is expected to fulfil. Light is not only applied to underline the overall architectural concept. The prime objective was to enhance the patients' feeling of well-being via intelligently controlled lighting, and provide light therapy treatment for the elderly and a dynamic lighting scenario for patients suffering from dementia, plus lighting for palliative care and for a nursery. This meant that different lighting concepts needed to be developed which together would result in a logical holistic result.

In order to measurably increase the feeling of well-being of visitors, patients and staff alike, changes in daylight during the course of the day are simulated using a lighting control system (dimnable, DALI, 2500 K – 4000 K) and Solo LED luminaires specially developed by Regent. LED modules with two luminous colours mix the light and adjust the colour temperature and luminous intensity (Tunable White) to align with changing daylight conditions over the day. This supports the circadian rhythm and creates a pleasant atmosphere.

Special attention was paid to the "Snoezelenraum" – a controlled multisensory environment in which patients with dementia suffering from mental problems undergo therapy. The room needed to be equipped with different light sources and projectors which provide different kinds of visual effects plus a "colour hub" – comprising a rotating mirror ball mounted on the ceiling and sofas and beds to comfortably sit and lie on. The lighting effects serve to enhance sensory perception and help patients relax.

Whether inside or out – since the lighting was required to deliver flowing transitions between the spaces and clear consistency in spite of the different functions the rooms need to fulfil – the lighting concept encompasses an uncompromising solution using high-quality LED luminaires.

## Home and care centre for the elderly in Zofingen, Switzerland

**Client:** Hospital Zofingen

**Architects:** Fugazza Steinmann Partner

**Lighting design:** Schachenmann + Co AG

**Electrical engineering:** Markus Geiser, Herzog Kull Group Aarau, SIA consultant electric engineers

**Luminaires applied:** Solo, Geo 2, Slash 2, Solo, Echo 210







## INTERVIEW

“Luminaires deliver light. But also hope, an aid to orientation, and improvement.”

W. Steiner and A. Bisicchia talk to Regent about the new home and care centre in Zofingen.

### Who is the home and care centre designed for?

The new home and care centre in Zofingen is dedicated to offering specific forms of treatment and care, which are only indirectly related to those provided by the acute care hospital. Patients stay longer, and the people accommodated there need special care.

### According to the architects responsible, the project is built around “a flowing series of spatial experiences”. What does that mean actually?

There is no limit to the time people spend in the care home. In the case of long-term therapies it is all about helping the patient to feel at ease and “at home”. The idea is for patients to feel

comfortable in surroundings they acknowledge as being their own. It is part of making their stay as pleasant as possible and not something they have to “endure”. These were the basic considerations that underlie the entire project.

### And what part does light play in all this?

Light is not only there to make the rooms bright. Light increases our feeling of well-being, underscores the function of the space, adds interest, and impacts patients' behaviour. This project focussed on the function-dependent tuning of luminous intensity and luminous colour. The integration of daylight ranks very high in this regard.

### What do you mean by “function-dependent tuning”?

Each room has a different function. In the patients' rooms, common rooms and lounges the function is pretty clear – it needs to feel like home. The circulation areas are not solely there for people to move around in. They also serve to support orientation, which is supported by a purposefully designed lighting layout.

### What other functions can the circulation areas have?

The contrast between the quiet, closed patients' rooms and the lively goings-on in the corridors could not be greater. The goal was therefore to create a smooth transition. The circulation areas basically need to enable three activities – a place to meet, to talk to each other, and simply to spend time and relax.

### What was the greatest challenge in this context?

To ensure the lighting can meet the needs for the different functions in the care centre, we primarily focussed on the lighting of vertical surfaces – how a lit vertical surface affects the ambience in a space. The goal was to use light to guide people through spaces, for orientation, the legibility of signs and room information, and to promote an overall feeling of well-being. The choice of diameters and layout of the luminaires ensure that the luminous intensity remains balanced, avoiding any overly bright areas. In short: on a functional level we meet the requirements to support work flow and daily operations. On an emotional level, we have created spaces that have a soothing, stimulating – in the positive sense – and calming effect on the users.

### And the spaces where patients and visitors congregate or meet?

You mean the cafeteria? The way the space is flexibly subdivided makes it possible to accommodate different activities. And the colour temperature can be controlled flexibly as well. So while cool white light may be used in one part of the space where people are doing handicrafts and the like, another part of the room can be lit to create a warmer atmosphere. The spatial concept in conjunction with the lighting concept allows for a high degree of flexibility.

### How did you manage to achieve the homely effect in the patients' rooms?

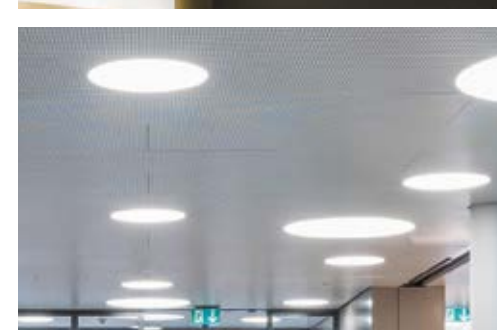
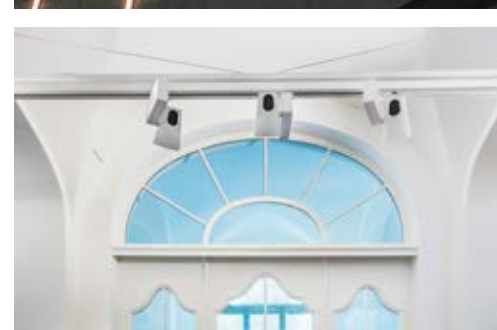
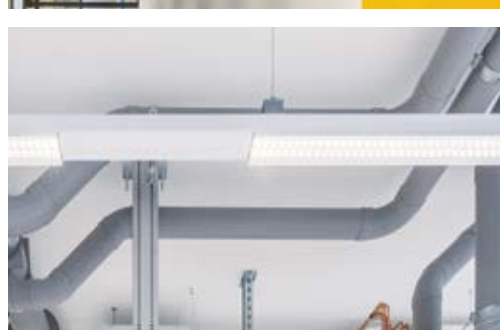
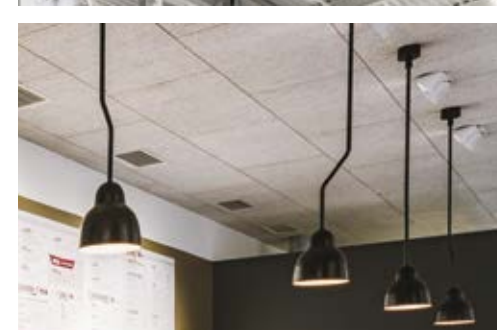
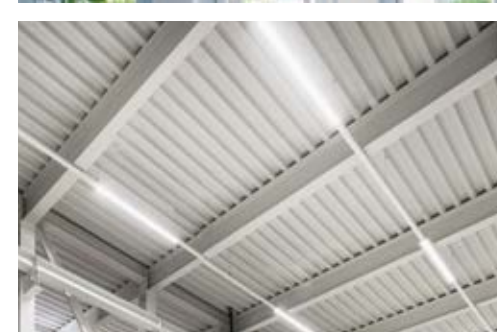
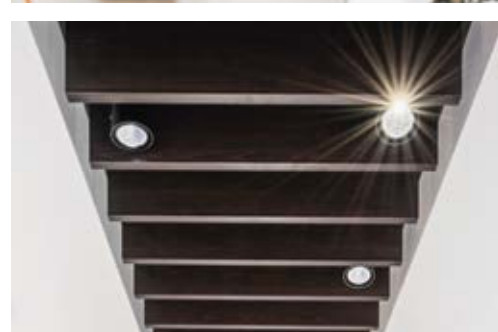
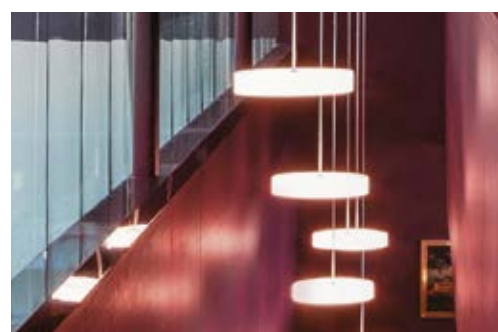
The luminance levels in the patients' rooms are well balanced, which enhances the sense of tranquility. The lighting effect is underscored by a colour scheme that aligns perfectly with the lighting. Thanks to the careful use of colour, together with the matching furniture, we have been able to avoid making these rooms feel sterile or clinical. We also made sure there were enough sockets in the rooms so patients can bring luminaires from home, and use “their own light” to make the space cosy.

Werner Steiner is an independent lighting consultant. His work includes developing the lighting concept for Fondation Beyeler in Riehen as well as for many other renowned projects.

Antonio Bisicchia is the Managing Director of HHM Group's engineering office in Basel. Their client base includes Migros, Raiffeisenbank and Siemens.









## Photo credits

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