



FUTURE OFFICE – FAR MORE THAN A WORKPLACE

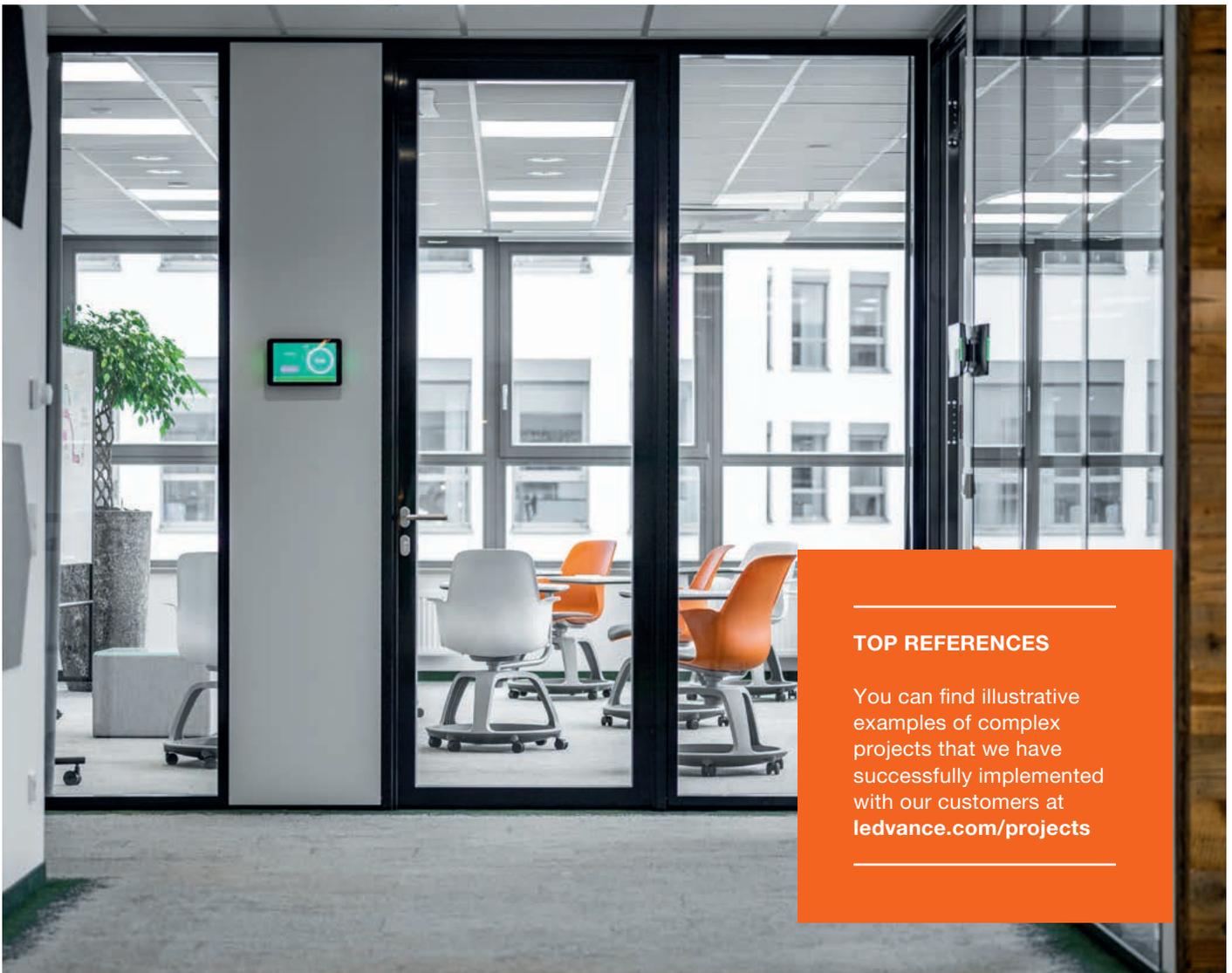


INNOVATIVE LIGHTING
SOLUTIONS FOR TODAY
AND TOMORROW

THE OFFICE OF THE FUTURE NEEDS FLEXIBLE SOLUTIONS THAT GROW WITH IT

What will the office of the future look like? How about the New Work approach to digitalization, sustainability, flexible working time models and work-life balance? And the race to recruit the best people? What's needed is a new working culture in highly flexible and networked office concepts. Including hybrid, well-equipped workplaces that focus on the employee. The office as a place for face-to-face contact, concentrated working and new ideas in the team. A place where the real and digital worlds seamlessly blend into one. This means that the lighting also has to develop with the requirements of New Work concepts and support the company's growth plans.

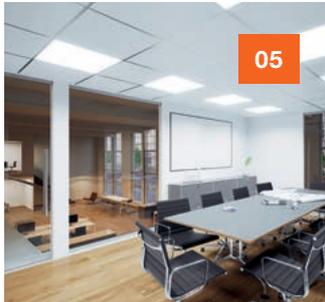
For you as a project developer, electrical planner and installer it opens up new opportunities. LEDVANCE offers complete solutions with sophisticated, easy-to-use products and systems that meet the requirements of the future thanks to great compatibility. For high-quality, climate-friendly and future-proof light which reduces energy and maintenance costs as well as CO₂ emissions and increases employee concentration and well-being. See for yourself.



TOP REFERENCES

You can find illustrative examples of complex projects that we have successfully implemented with our customers at [ledvance.com/projects](https://www.ledvance.com/projects)

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LINEAR INDIVILED ZIGBEE
Stylish lighting design from above featuring uniform light distribution and reduced glare thanks to IndivILED optics.

LED STRIP TUNABLE WHITE
Versatile use and flexibly adjustable white tones for accent and general lighting on walls and ceilings.

VIVARES ZIGBEE LIGHT MANAGEMENT WIRELESS, FLEXIBLE, ECONOMICAL

The office of the future does not have to be a new build. If you can't make too many structural changes and/or are looking for flexible room situations VIVARES Zigbee is the ideal light management solution. It's the easy way for you to create optimal lighting conditions for any defined situation. And it's sustainable and saves you costs along the way. All the necessary components and a well-assorted selection of compatible LED luminaires are available from one excellent source: LEDVANCE.



YOUR CHALLENGE

You are supposed to modernize an existing building without rewiring everything. The building may even be listed. To not lose the charm of the rooms by suspending high ceilings, you need products without additional control lines. And you need adjustable systems for flexible room situations where light distribution requirements change quite often.



ZIGBEE SENSOR
Save energy when coming and going thanks to the wireless Zigbee 3.0 sensor.



GOOD REASONS FOR CHOOSING VIVARES ZIGBEE:

- Ideal for modernizing existing buildings where no rewiring is needed
- Based on the international Zigbee 3.0 standard
- Quick and easy installation and QR code-based commissioning
- Simple reconfiguration of the components when the use of rooms changes
- Maintenance and energy consumption reports from anywhere

A great example of a future office: innovative design meets comfort for an appealing mix of styles with our flexible LED strips.



ZIGBEE PANEL LUMINAIRE
Direct replacement for luminaires with fluorescent lamps. Energy savings through high system efficiency of up to 120 lm/W.

VIVARES Zigbee in a charming old building – panel luminaires, downlights and pendant luminaires complement each other perfectly and are wirelessly connected with the VIVARES Zigbee controller and sensors.

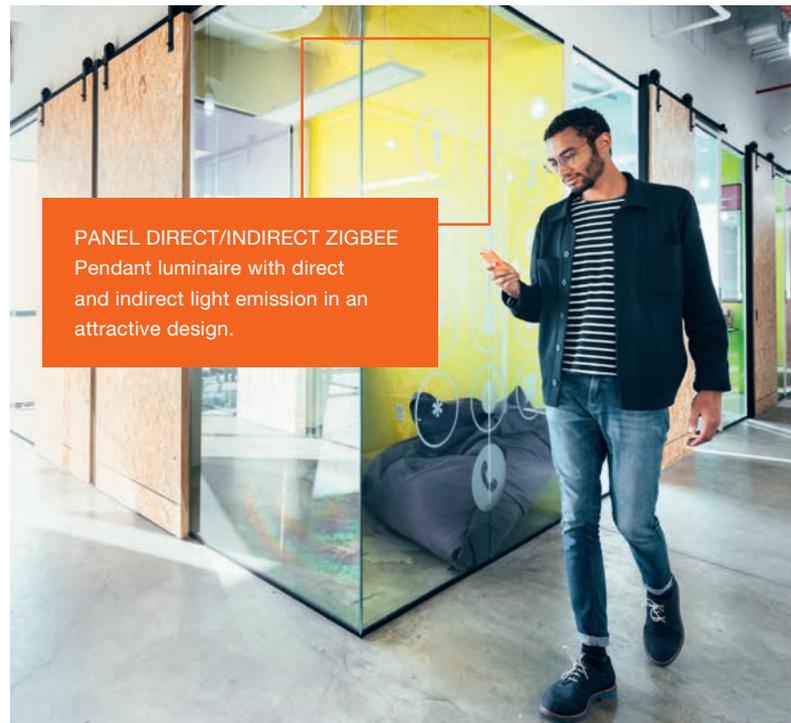


OUR SOLUTION

If you are looking for economical and sustainable light for offices, VIVARES Zigbee is the ideal solution for you. Thanks to controlling the lighting with daylight and motion sensors, the system is extremely energy-efficient, energy-saving and therefore cost-effective. The result: lower CO₂ emissions.

The wireless VIVARES Zigbee system is your first choice for existing properties and flexible office space solutions. Because it is easy to configure and commission – whether you want to implement a small lighting project or a complete floor solution. Even after commissioning, you can easily expand the system with additional components at any time – and keep it future-proof.

The key component is VIVARES Zigbee control which communicates wirelessly with up to 200 Zigbee-ready devices via Zigbee 3.0. And, as an option, the system can be connected to the VIVARES Cloud to generate maintenance and energy consumption reports. Choose from a wide range of compatible luminaires with Zigbee 3.0 technology including UGR < 19 for your VIVARES lighting system. And there's a selection of SMART⁺ lamps and SMART⁺ Plug for integrating conventional lamps.



PANEL DIRECT/INDIRECT ZIGBEE
Pendant luminaire with direct and indirect light emission in an attractive design.

These innovative pendant luminaires produce contrasting accents anywhere, but especially in old buildings. For creative work – not just at desks.



PLAN YOUR FUTURE NOW

For more information about our VIVARES Zigbee system visit ledvance.com/vivares

All the components and luminaires at a glance: ledvance.com/vivaresproducts



VIVARES DALI LIGHT MANAGEMENT WIRED INDUSTRY STANDARD REDEFINED

There is one thing that no longer exists in the office of the future: individual solutions. Rooms that promote collaboration and creativity now take center stage. Anyone who is thinking along the lines of New Work should go for an IoT light management system (LMS) from LEDVANCE. Its name? VIVARES DALI. The system is technically matched to perfection and DALI-2 certified, always ensuring optimal lighting conditions – anywhere. It is suitable for all office solutions where the control lines can be wired and offers great stability and compatibility. Including LMS components and matching LED luminaires, of course.



YOUR CHALLENGE

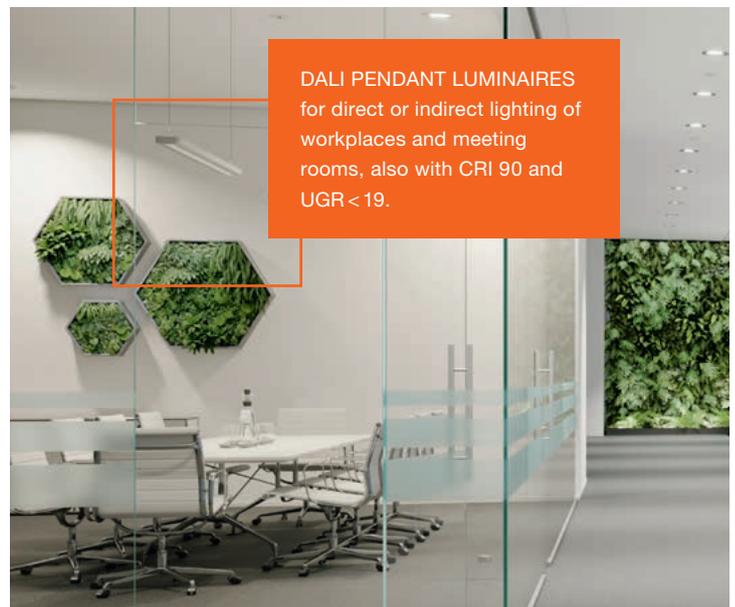
You are supposed to design the perfect lighting solution for an open-plan office following the latest standards – and you know that performance, creativity and efficiency are particularly important there. Your lighting solution needs to help achieve that and must therefore be ergonomic, comfortable, activating and economical.

But that's not all. It also needs to be integrated into a building management system (KNX) for central control which can grow with it. For example, if more workplaces are needed and the furniture might need to be changed.



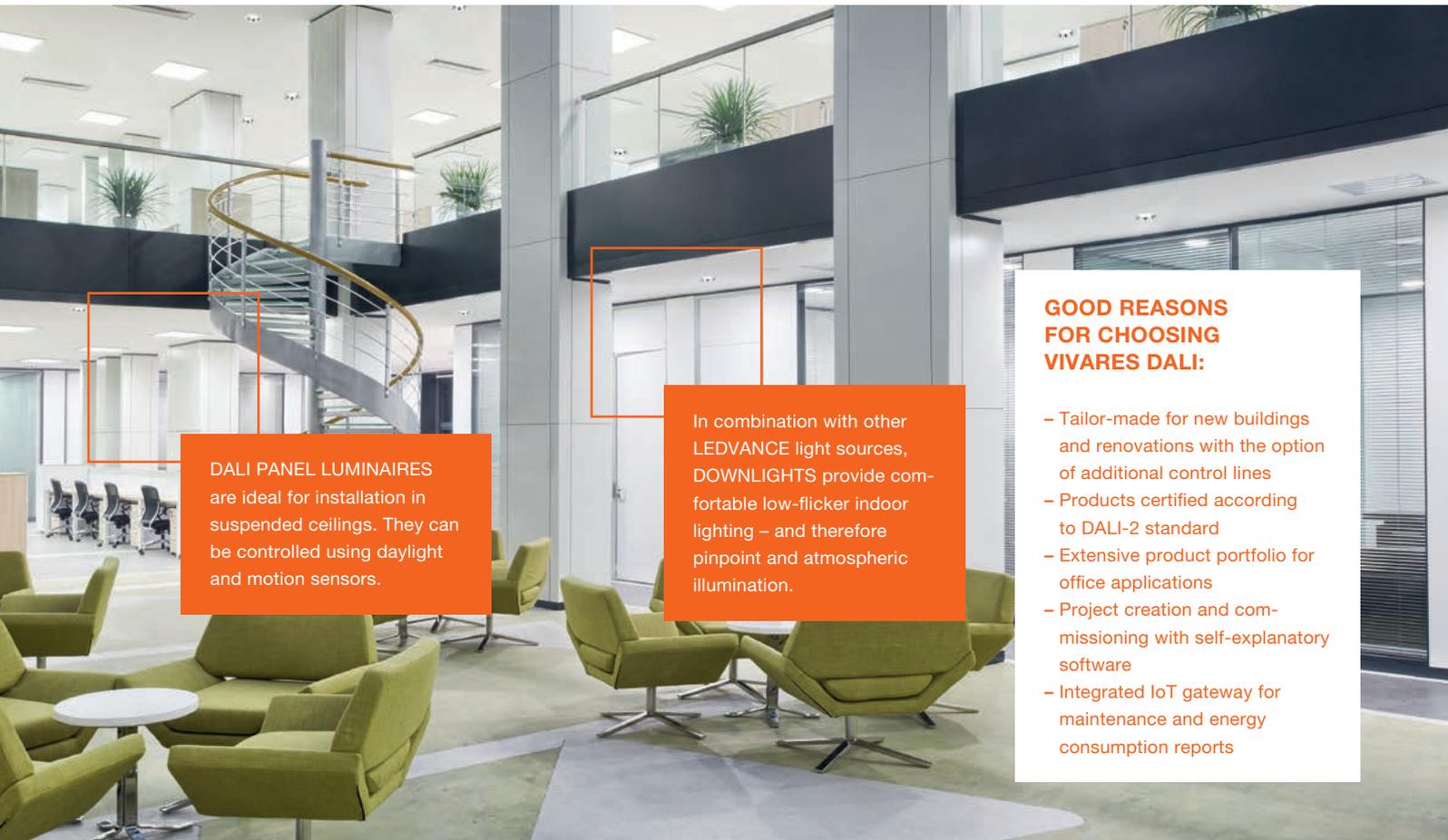
Products of OSRAM GmbH,
distributed by LEDVANCE

OSRAM



DALI PENDANT LUMINAIRE
for direct or indirect lighting of
workplaces and meeting
rooms, also with CRI 90 and
UGR < 19.

Meeting rooms need special light that boosts both creativity and concentration.



DALI PANEL LUMINAIRES are ideal for installation in suspended ceilings. They can be controlled using daylight and motion sensors.

In combination with other LEDVANCE light sources, DOWNLIGHTS provide comfortable low-flicker indoor lighting – and therefore pinpoint and atmospheric illumination.

GOOD REASONS FOR CHOOSING VIVARES DALI:

- Tailor-made for new buildings and renovations with the option of additional control lines
- Products certified according to DALI-2 standard
- Extensive product portfolio for office applications
- Project creation and commissioning with self-explanatory software
- Integrated IoT gateway for maintenance and energy consumption reports

If you can work from anywhere, there has to be an incentive for coming to the office. Glare-free lighting provides ideal working conditions, while areas with atmospheric lighting give you a place to recharge and socialize.



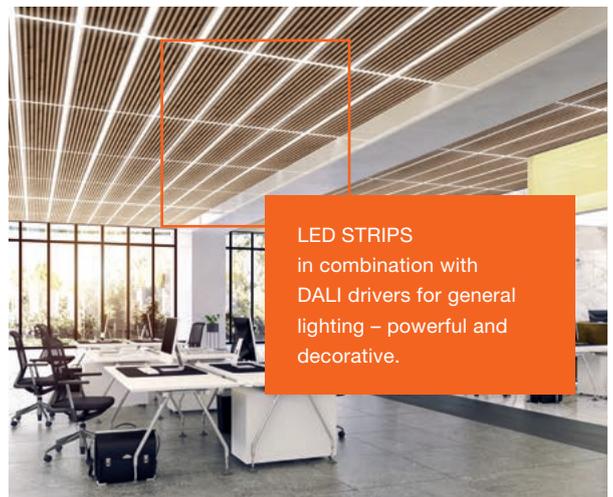
OUR SOLUTION

At the heart of LEDVANCE VIVARES DALI is the OSRAM DALI PRO 2 IoT control unit. The system connects DALI-2 components – for example sensors, pushbutton couplers and the LEDVANCE VIVARES DALI-2 luminaires.

As an open standard, the system is compatible with many DALI-2-ready luminaires and components. A total of up to 128 luminaires and 126 input devices such as sensors can be individually addressed. Up to ten OSRAM DALI PRO 2 IOT control units can be connected to the KNX bus system, significantly increasing the number of luminaires and components. Installation, configuration and intuitive commissioning are self-explanatory thanks to the browser-based graphical user interface.

And of course VIVARES DALI is also ready for the Internet of Things (IoT) – and therefore capable of generating maintenance and energy consumption reports via the VIVARES Cloud.

A wide range of compatible luminaires with DALI-2 technology, including CRI 90 and UGR < 19, is available for VIVARES lighting especially for offices.



LED STRIPS in combination with DALI drivers for general lighting – powerful and decorative.

A lighting concept of the future includes specific lighting effects, for example extremely uniform light lines produced by LED strips.



SET NEW STANDARDS

For more information go to

ledvance.com/vivares

All the components and luminaires at a glance:

ledvance.com/vivaresproducts



CLOUD SERVICES FOR VIVARES DALI AND VIVARES ZIGBEE

KEEP AN EYE ON EVERYTHING



Welcome to the Internet of Things! Using the VIVARES Cloud, you now have access to the data of your lighting system from anywhere in the office of the future. This allows you to make its operation even more efficient, reliable, energy-saving and cost-effective.

The cloud services for VIVARES DALI and VIVARES Zigbee enable you to optimize your lighting system wherever you are. With the intuitive dashboard you can monitor energy consumption, the operating hours of the drivers and the relevant lighting data, among other things. Various filter functions give you the option of analyzing the data according to your needs.

SERVICE THAT IS WELL WORTH IT

- Optimize energy consumption
- Reduce maintenance costs – adapt the maintenance cycle to actual demand
- Diagnose faults from any location – all you need is internet access and a tablet/PC
- Future-proof with the option of new services

For our cloud services go to ledvance.com/vivares-cloud

SERVICES FOR EVEN MORE EFFICIENT OPERATION



ENERGY MONITORING

Your customers can get detailed insights into the energy consumption of the lighting system. Its energy costs can be reduced even further through monitoring. A selling point that will convince price-conscious and/or eco-friendly customers in particular.



DASHBOARD

The dashboard is the central tool for accessing the VIVARES Cloud services. Everything is clearly laid out and very user-friendly, which makes using services such as energy monitoring and predictive remote diagnosis very comfortable.



MAINTENANCE ASSISTANT

Via remote access, your customers can keep an eye on the status of the system and its components. Fault diagnosis and information on lifetime allow maintenance to be predictive, cost-saving and particularly reliable.



TAKE ADVANTAGE OF THE SERVICE OFFERED BY LEDVANCE FOR TAILOR-MADE LIGHTING DESIGN

PROFESSIONAL LIGHTING DESIGN

DIALUX AND RELUX

LEDVANCE is collaborating with the developers of DIALux and RELUX software. So you can now easily integrate LEDVANCE products in your lighting designs. Our luminaire data is also BIM-compatible.

EVEN MORE CONVENIENT

LEDVANCE takes care of tailor-made calculations and offers you a customized solution for your lighting requirements – all from a single source.

VIVARES LIGHT MANAGEMENT

LEDVANCE offers you special services for this:

PLANNING AND PRECONFIGURATION

On request, we will take over complete preconfiguration of the system and all its components. This will allow you to carry out commissioning on site quickly and easily.

COMMISSIONING AND INSTRUCTION

After installation, you can also use our professional programming and commissioning service. Our experts will commission the system for you and show you how to use it.

DURING OPERATION

From fault analysis and troubleshooting to reprogramming, reconfiguring and expanding the system – our experts will support you during operation on site.

YOUR BENEFITS AT A GLANCE

- Uniformly good light distribution
- Precise wattage per sqm
- Maximum efficient calculation of required number of luminaires and VIVARES components

ASSEMBLE-TO-ORDER – INDIVIDUAL LIGHT IN NO TIME



THE KEY TO THIS CONCEPT:

modular designs that are quick and easy to assemble. This means that we are already in a position to tailor certain special solutions to your needs. These individual lighting solutions are provided in consultation with us so please contact us.



Are you interested in our special services for your project requirements? Then please get in touch. We look forward to hearing from you.

Email: kundenservice@ledvance.com

Phone: +49 89 780673-660



1

UNIVERSAL USE:
UVC AIR TUBE V70 fits discreetly into any space. With the help of versatile mounting accessories, it can be installed as a free-standing or wall-mounted version.

2

LEDVANCE UVC AIR TUBE V70
For subtle, very effective and chemical-free air disinfection during working hours.

GOOD REASONS FOR CHOOSING UV-C

- Reduces virus concentration by up to 99.9 %
- Proven technology: continuous air disinfection with UV-C light
- Extremely quiet operation: < 38 dB
- Safe for humans and animals: no leakage of UV-C rays
- Chemical-free operation and ozone-free lamp
- No change of filter necessary

UV-C AIR DISINFECTION NO CHANCE FOR VIRUSES AND THE LIKE IN OFFICES

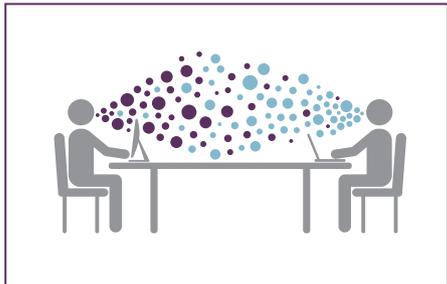
Since Covid, reliable air disinfection has also been part of the office of the future. To reduce the viral load in indoor areas, UV-C air disinfection systems provide a crucial and most effective service – entirely without chemicals and while people are working. These high-tech devices draw in the air, inactivate microorganisms such as viruses and bacteria using UV-C light, and return the purified air. This guarantees continuous and reliable air disinfection.



YOUR CHALLENGE

Coronaviruses, flu viruses and any other viruses and bacteria are mainly transmitted through aerosols which are released into the ambient air while breathing. This makes it all the more important today and tomorrow to ensure clean air wherever several people are indoors.

Air disinfectors need to run discreetly and quietly – without regular replacement of expensive filters. And of course they shouldn't produce any chemicals, ozone or any other pollutants. Good job that there is a perfect solution for all these requirements.



Scientifically proven: every time we breathe or speak, aerosols contaminated with viruses can spread throughout the room and carry these dangerous microorganisms to other people.



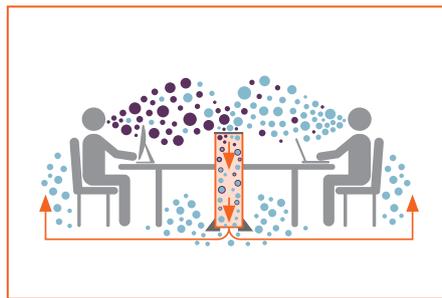
OUR SOLUTION

UV-C air disinfectors use UV radiation to inactivate viruses, bacteria, germs, fungi, etc. That means that everyone is protected and can carry on working in the office of the future because they are supplied with safe, clean air.

And how does that work? If aerosols are exposed to the right dose of UV radiation, viruses, bacteria and mold spores will be destroyed. This effect has been scientifically proven many times – also for coronaviruses. It effectively minimizes the risk of infection with all kinds of pathogens. Without changing an expensive, possibly contaminated filter. A UV-C lamp only needs to be replaced after about 16 000 operating hours.



The SteriWhite Air Q from Hönle in cooperation with LEDVANCE works on the same principle.



Our UV-C high-tech devices continuously suck in ambient air and destroy the viruses on the aerosols.

INSTALLATION ACCESSORIES

Vertical, horizontal, wall-mounted or suspended – with its reduced design the LEDVANCE UVC AIR TUBE V70 integrates seamlessly into any room thanks to optional mounting kits.



1. LEDVANCE UVC AIR TUBE V70



2. HÖNLE STERIWHITE AIR Q115 / Q330 / Q600 / Q900



2

STERIWHITE AIR Q115
Continuous air circulation in enclosed spaces gives viruses, bacteria and mold spores no chance.

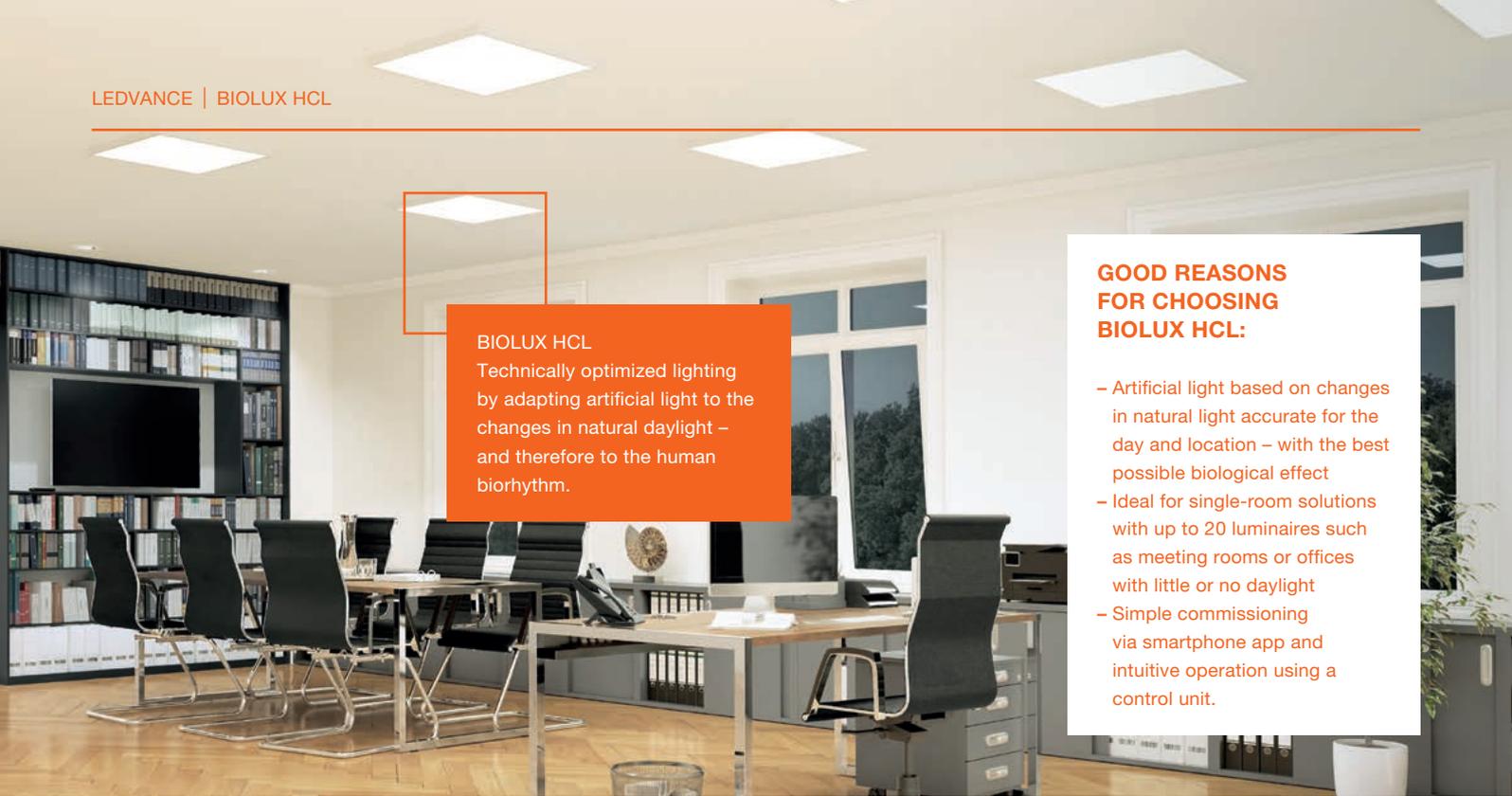
Thanks to its elegant design and quiet operation, the Red Dot Design Award winning device fits discreetly into any room.



LEDVANCE AIR DISINFECTOR

Visit our website to learn more about our highlight UV-C air disinfectant:
[ledvance.com/air-disinfector](https://www.ledvance.com/air-disinfector)





BIOLUX HCL
 Technically optimized lighting by adapting artificial light to the changes in natural daylight – and therefore to the human biorhythm.

GOOD REASONS FOR CHOOSING BIOLUX HCL:

- Artificial light based on changes in natural light accurate for the day and location – with the best possible biological effect
- Ideal for single-room solutions with up to 20 luminaires such as meeting rooms or offices with little or no daylight
- Simple commissioning via smartphone app and intuitive operation using a control unit.

HUMAN CENTRIC LIGHTING FOR MORE PRODUCTIVITY AND WELL-BEING

Lighting solutions for modern work environments in future offices must be designed to promote creative thinking and high levels of concentration at desks, on computers and in factories. Human centric lighting places the focus on people and their need for natural light. Flexible, healthy and effective. That makes working in the office fun.

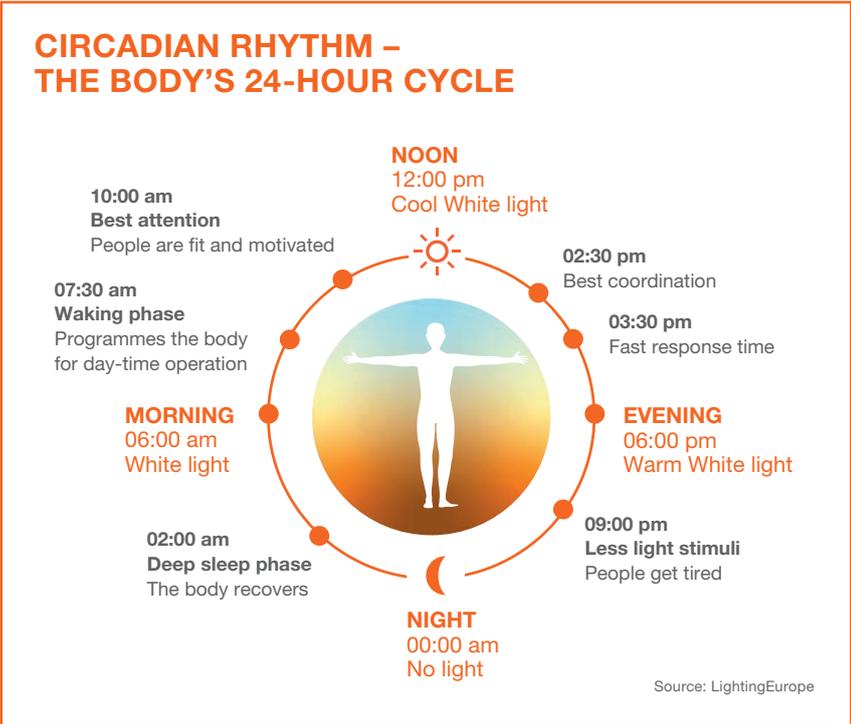


YOUR CHALLENGE

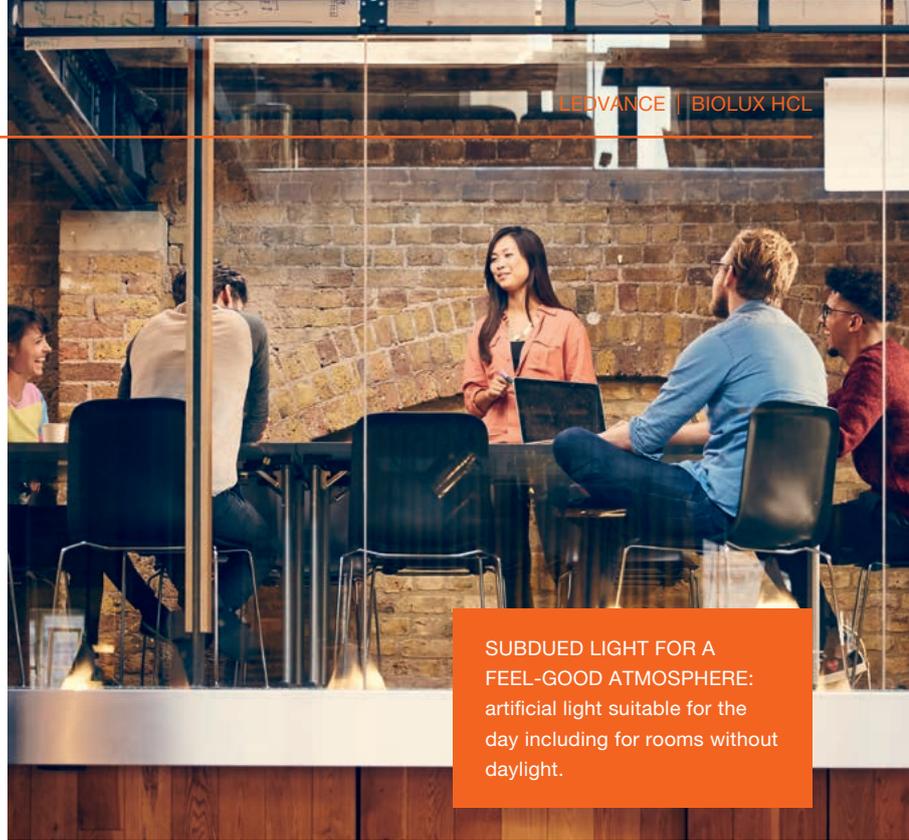
Do you come across offices in your jobs with little daylight, dark meeting rooms and artificial light until late into the night? These are working conditions that are (unfortunately) often still standard in offices.

But since you know that good light is an essential source of well-being, performance and satisfaction, you need lighting solutions for your design that are based on people's biorhythms.

Because a lack of daylight can cause serious disruption to our day-night rhythm (our "body clock"), and massively deteriorate our performance and overall well-being.



BIOLUX HCL control unit: easy switching between different light profiles.



SUBDUED LIGHT FOR A FEEL-GOOD ATMOSPHERE: artificial light suitable for the day including for rooms without daylight.



OUR SOLUTION

The BIOLUX HCL system with human centric lighting (HCL) produces the right light at the right time, creating a working environment that simulates the changes in natural daylight with its visual, biological and emotional effects. To achieve this, the BIOLUX HCL luminaires are controlled by the BIOLUX HCL control unit with appropriate light profiles.

Through color temperatures and illuminance levels, HCL can simulate the changes in natural daylight in such a way that it supports the human circadian rhythm (our "body clock"). A neutral or cold white light color, for example, can energize in the morning. Warm white light is relaxing and ideal for the evening. This means that BIOLUX HCL boosts the productivity of employees as well as their health, well-being and performance.



BIOLUX HCL PANELS AND HCL LED STRIPS for optimal illumination of central or peripheral areas, e.g. in conference rooms.

In the morning, activating, bright, cold white light with a high blue component for concentrated working is needed.



LED STRIPS TUNABLE WHITE KIT for general or (indirect) cove illumination.

During breaks and in the evening, warm white light with a low blue component which helps the body relax is recommended.

The BIOLUX HCL system is also a winner of design, function, and innovation awards.



reddot winner 2020



SET NEW STANDARDS

For more information go to
hcl.ledvance.com



And watch our video on YouTube:
<https://youtu.be/TgaiT6n0sTY>





Coming soon!

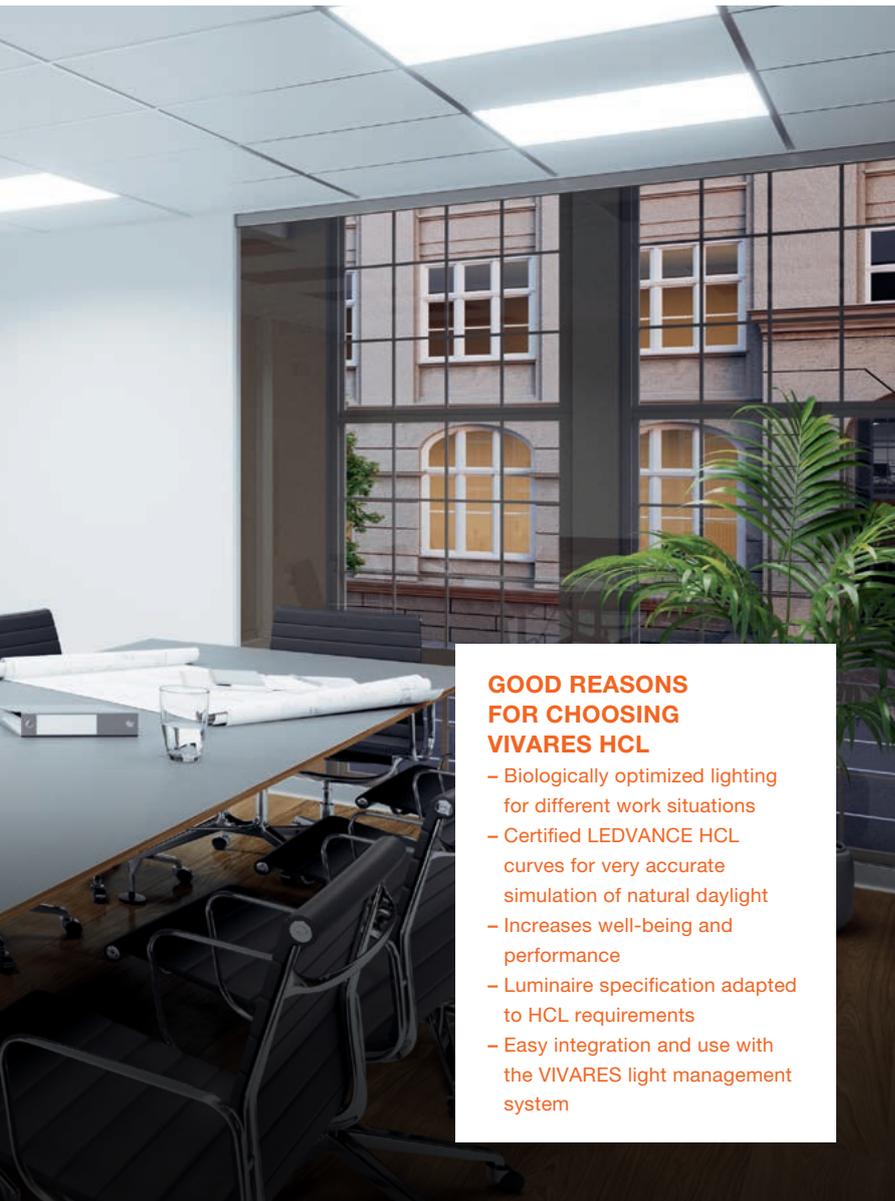
VIVARES HCL LIGHT MANAGEMENT COMBINED WITH BIOLUX HCL FOR EFFECTIVE WORKPLACE CONCEPTS

In the office of the future, creating good lighting is also a team effort. A great example is the VIVARES HCL system for Zigbee and DALI in combination with BIOLUX HCL luminaires which automatically adapt artificial light to the changes in natural daylight using an intelligent algorithm. This allows the entire team in open-plan offices and across the whole floor to benefit from the positive effects of HCL light. It boosts the employees' well-being, performance and satisfaction.



YOUR CHALLENGE

Your job is to take into account both the visual and non-visual effects of light in your lighting concept for open-plan offices, floor solutions and training centers. Your client knows that future-proof light provides good vision and takes into account the biological effects of light on people, increasing their performance. And ideally, adapting the light to natural daylight should be automatic, the lighting should be integrated into an intelligent light management system and should be easy to control.



GOOD REASONS FOR CHOOSING VIVARES HCL

- Biologically optimized lighting for different work situations
- Certified LEDVANCE HCL curves for very accurate simulation of natural daylight
- Increases well-being and performance
- Luminaire specification adapted to HCL requirements
- Easy integration and use with the VIVARES light management system



Morning: cold white light for maximum concentration and motivation.

Midday: bright, friendly light for a relaxing break.

Afternoon: optimum coordination and reaction time – ideal for meetings.

Evening: warm light for a relaxing end to the day.



OUR SOLUTION

The perfect synergy of VIVARES HCL for the Zigbee or DALI light management system in combination with BIOLUX HCL luminaires. They simulate the changes in natural daylight up to 95 % to ensure maximum concentration in the morning and relaxation in the evening even in dark rooms. The other benefits are just as important. The light “feels” like you are outside in natural sunlight. And several studies have proved that simulated daylight has amazing effects.

The results range from an extra two hours of effective working time per month and a 4.5 % increase in productivity to a year of longer employee retention. At the same time, the error rate is going down by 2 % and the sickness rate by 1 %.

(Source: AT Kearney, Quantified benefits of Human Centric Lighting, (2015))



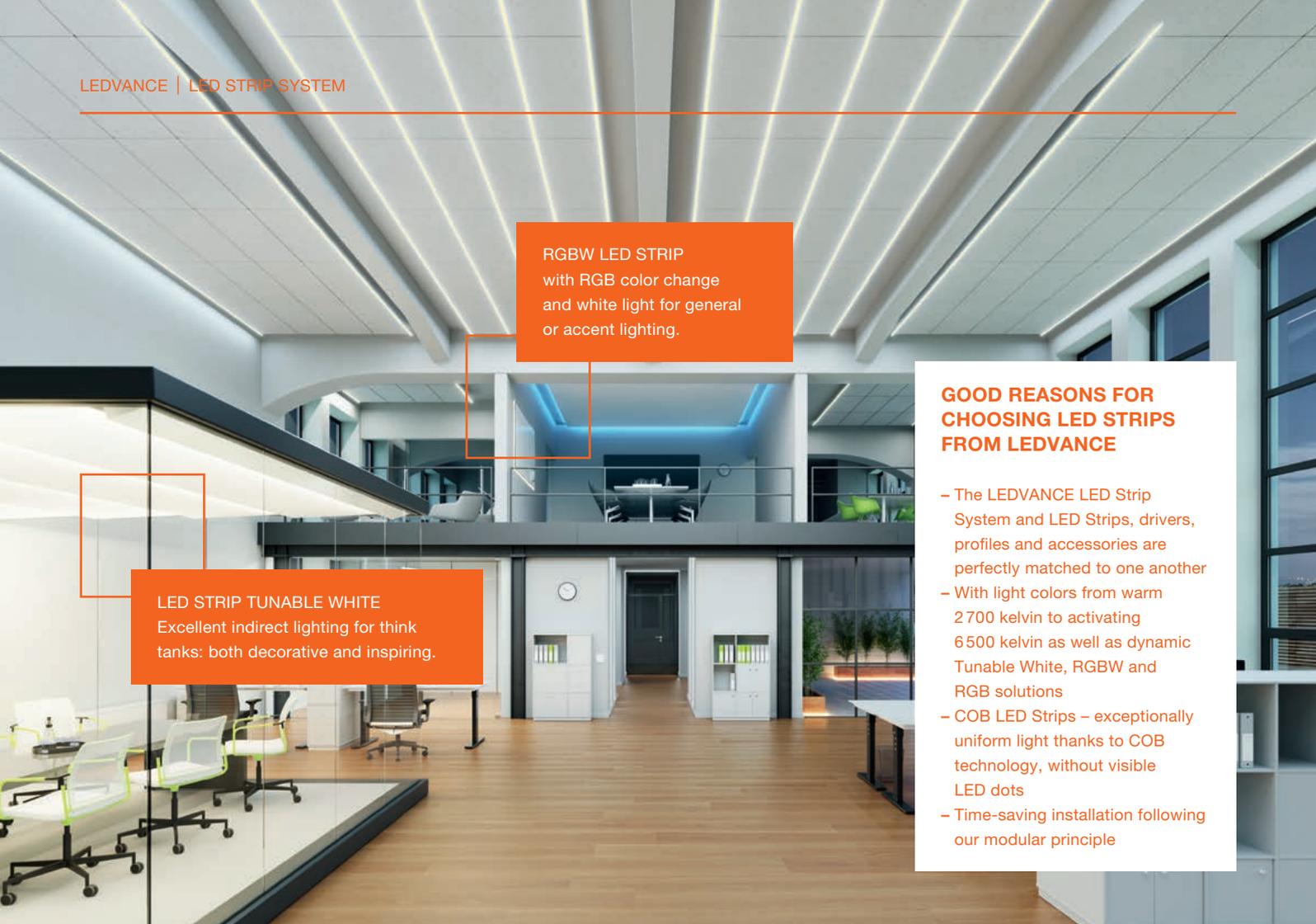
GET CONNECTED

For more information about VIVARES

HCL visit

ledvance.com/vivares





RGBW LED STRIP
with RGB color change
and white light for general
or accent lighting.

LED STRIP TUNABLE WHITE
Excellent indirect lighting for think
tanks: both decorative and inspiring.

GOOD REASONS FOR CHOOSING LED STRIPS FROM LEDVANCE

- The LEDVANCE LED Strip System and LED Strips, drivers, profiles and accessories are perfectly matched to one another
- With light colors from warm 2700 kelvin to activating 6500 kelvin as well as dynamic Tunable White, RGBW and RGB solutions
- COB LED Strips – exceptionally uniform light thanks to COB technology, without visible LED dots
- Time-saving installation following our modular principle

THE LED STRIP SYSTEM AS FLEXIBLE AS YOUR DEMANDS

Lighten the mood – in the office of the future too. Light is no longer just about optimum visual conditions for productive work. More is needed to create a “feel-good office” that excites employees. For example, atmospheric accent lighting. LED Strips from LEDVANCE make it easy to create efficient and stylish lighting. Different white tones boost concentration, while a complete color range creates feel-good light and a cozy after-work atmosphere.



Assemble-to-order: individual pendant luminaires provide attractive contrasts in the old building – in consultation with us as part of your lighting designs.



YOUR CHALLENGE

You have higher demands on your overall lighting concept than just to produce brightness using state-of-the-art technology. Because you know that the right light can contribute significantly to an atmospheric ambience.

So you need lighting solutions that highlight different areas to best effect – directly or indirectly. For example at reception, in corridors, in lounges, in creative rooms or in restrooms. Good job that LEDVANCE has the right solution here too.



OUR SOLUTION

LED Strips from LEDVANCE combine high quality with demand-based performance. The great selection of white and dynamic colored LED Strips in many different color temperatures enables decorative, atmospheric, pioneering and safety-enhancing applications. One of the highlights are the new LEDVANCE COB LED Strips without light dots typical of conventional LED strips. The COB LED Strips carry so many LED chips that a very uniform light line is created over their entire length.

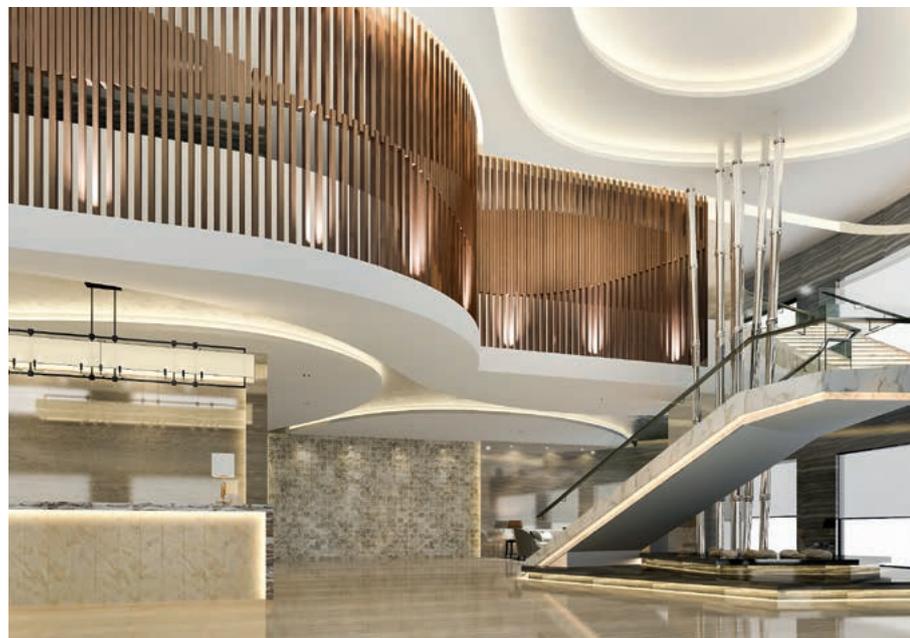
What's more, all LEDVANCE LED Strips are easy to plan, combine and install. The product range is included in the DIALux/RELUX software for implementing lighting projects. Alternatively, it can be planned, compiled and exported to a parts list using the LEDVANCE LED Strip Configurator.



Top: Total flexibility? LED STRIPS RGBW offer different white tones to boost concentration, while their complete color range creates a cozy after-work atmosphere.

Middle: The mix of indirect diffuse and directional light turns washrooms and toilets into an inviting space.

Bottom: The subtle but effective illumination of staircases creates stylish effects and ensures safety.



What a first impression! In the foyer modern, exclusive lighting design provides a warm reception. The new COB LED Strips with uniform light lines instead of visible LED dots make it possible.

DECORATIVE LUMINAIRES

It's not just clever lighting solutions that provide accent lighting for an appealing ambience. You can also achieve that effect by combining the LED Strips with stylish and decorative luminaires from LEDVANCE. Try it out – there is a lot to choose from.
[ledvance.com/residential-luminaires](https://www.ledvance.com/residential-luminaires)



HELPFUL RIGHT DOWN THE LINE

For more information go to

[ledvance.com/led-strip](https://www.ledvance.com/led-strip)

All the components and luminaires at a glance:

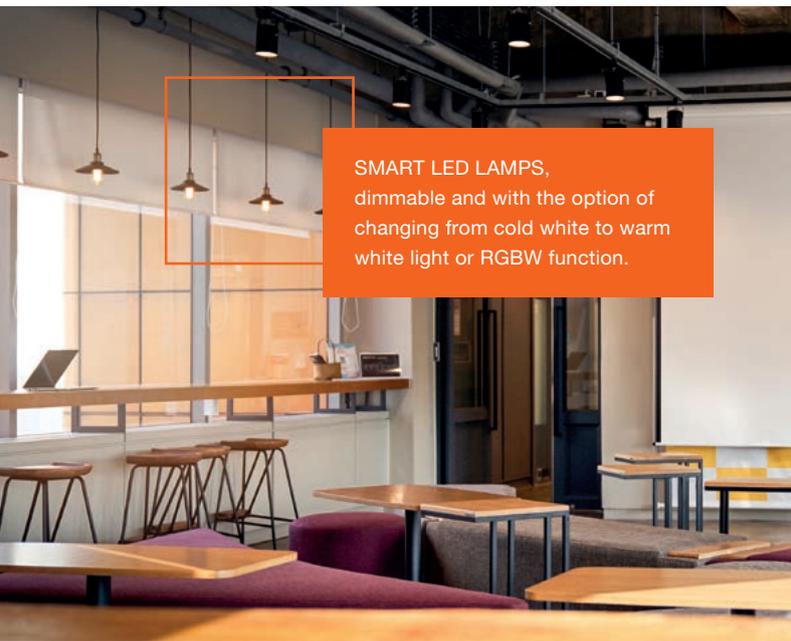
[ledvance.com/ledstripproducts](https://www.ledvance.com/ledstripproducts)



SMART+

SO LIGHTING CONTROL WILL DO EXACTLY AS YOU SAY

Never get up and go to the light switch again – of course that’s something you would also like to do in the office of the future. Your lights shouldn’t just be easy to control by voice in your Smart Home but also at your desk. With SMART+, LEDVANCE offers the perfect solution for small offices, intelligent individual offices and home offices as well as lounge areas and creative spaces. Experience it yourself. LEDVANCE light obeys you.



SMART LED LAMPS, dimmable and with the option of changing from cold white to warm white light or RGBW function.



YOUR CHALLENGE

The office of the future you are planning should of course also be one thing: smart. So the lighting should be comfortable and very easy to control – ideally by voice command. Lights on, lights off, lights brighter, lights darker – your customers just want to call these words into the room. Including customized light routines and scenarios. And without an additional gateway. It should also be compatible with all common voice control systems such as Google Nest, Amazon Echo and Apple HomeKit. Finally, voice control should be set up with just a few clicks and be as reliable as Google and WiFi in the office.

THE PERFECT DUO: LEDVANCE SMART+ WIFI AND GOOGLE EASY CONTROL BY SMARTPHONE OR VOICE COMMAND

1   
Download the LEDVANCE SMART+ app

2 
Register and connect the router

3 
Turn on the LEDVANCE lamp/luminaire and integrate it in the LEDVANCE SMART+ app. **Done!**

4  
If you want to expand your control options, simply link the LEDVANCE SMART+ app with the Google Home app or another system and connect your Google Nest or other compatible smart speaker. **That’s it!**

SMART+ WIFI is compatible with all common voice control systems such as Google Nest, Amazon Echo and Apple HomeKit.

GOOD REASONS FOR CHOOSING SMART+ WIFI

- Flexible control options
- Easy integration of the products into the app or speakers
- Huge selection of lamps and luminaires for indoor and outdoor use
- Up to 250 products can be connected, around 50 can be controlled simultaneously¹
- Short response time

SMART+ WIFI ORBIS WALL SWAN in white as a decorative wall luminaire with Tunable White function.

Eye-catching light – decorative wall luminaires have as much visual appeal as they have an impact on the atmosphere in the room.



OUR SOLUTION

SMART+ WiFi is a simple – and particularly economical – way to get started with smart lighting. There's also a variety of clever functions and a great choice of products on offer. It is particularly suitable for customers who value convenience, for those who like to keep up with the latest technology trends, and for those who want to use voice control to simplify their professional duties when their hands are tied doing other jobs.

All your customer needs is a SMART+ WiFi lamp or luminaire, a router (which is part of pretty much every household anyway), the free LEDVANCE SMART+ app – and they're ready to go. The light can also be controlled using an ordinary light switch (on/off), by remote control or by voice command in combination with a smart speaker. Options are pretty much endless.



Intelligent LED ceiling luminaire with integrated ventilation, UV-C purification and dimming function: SMART+ WIFI UV-C CEILING FAN.



Rectangular panel luminaires for optimal illumination of work-places. SMART+ WIFI PLANON with Dimming, Tunable White and RGB function.

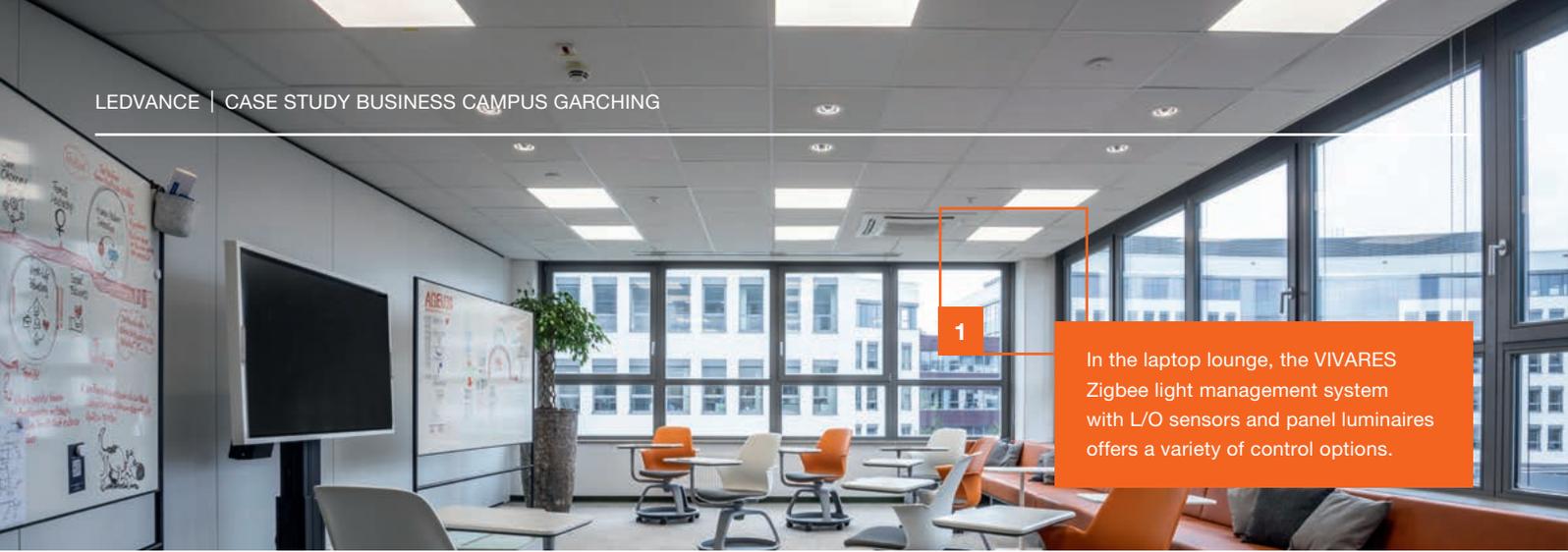
¹ The maximum number depends on the router



YOUR SMARTER WAY TO MORE INFORMATION

Find out more about our SMART+ range on our website. Including other technologies such as Bluetooth and Zigbee: ledvance.com/smart+

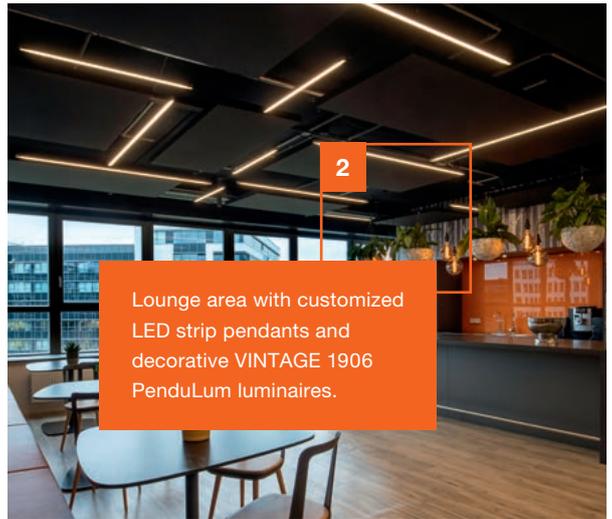




In the laptop lounge, the VIVARES Zigbee light management system with L/O sensors and panel luminaires offers a variety of control options.

CASE STUDY THAT'S HOW LIGHTING IS DONE TODAY AT BUSINESS CAMPUS GARCHING

For Garching Business Campus, LEDVANCE developed a customized lighting concept with innovative energy-efficient lighting solutions. The result: maximum convenience and feel-good atmosphere. The VIVARES light management system and BIOLUX HCL system, smart and decorative luminaires, and LED Strips and customized luminaires are part of the new concept.



Lounge area with customized LED strip pendants and decorative VINTAGE 1906 PenduLum luminaires.

THE CHALLENGE

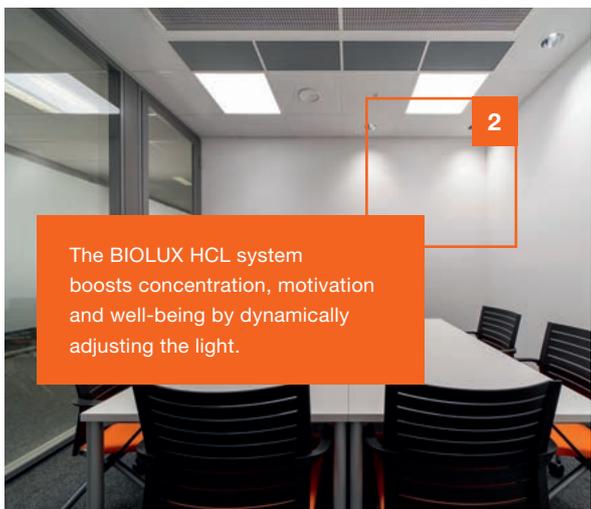
Modern offices are not just functional workplaces. They are supposed to positively influence the motivation, well-being and productivity of employees, promote team spirit and, as a collaborative and social place, also make the employer more attractive. With this in mind, Business Campus Management GmbH in Garching developed the Business Campus Hub, which is available to rent, as a future office. The goal was to add value for companies and employees and also boost office space rentals. The lighting concept needed to meet all the demands of innovative office lighting and make the premises more attractive for potential tenants.

→ To see other projects go to ledvance.com/projects



THE SOLUTION

As an expert in complex lighting systems and projects, LEDVANCE was the client's first choice. On top of improved energy efficiency and reduced maintenance costs, the focus was on making the workplace more attractive and enhance the employees' well-being. The VIVARES light management system as wireless Zigbee and wired DALI versions as well as the BIOLUX HCL system did just that. LEDVANCE also pulled out all the stops visually, providing modern luminaires with future-proof technology, decorative luminaires and indirect accent lighting.



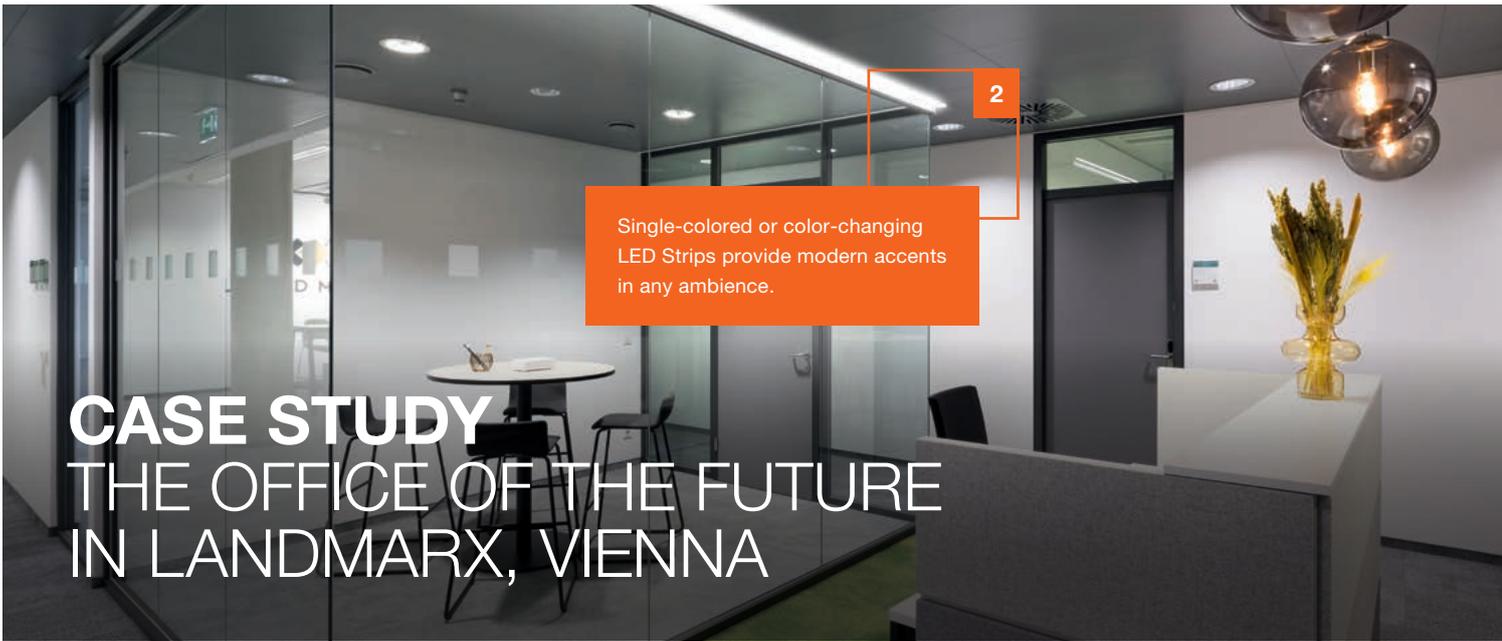
The BIOLUX HCL system boosts concentration, motivation and well-being by dynamically adjusting the light.



1. VIVARES Zigbee and DALI light management



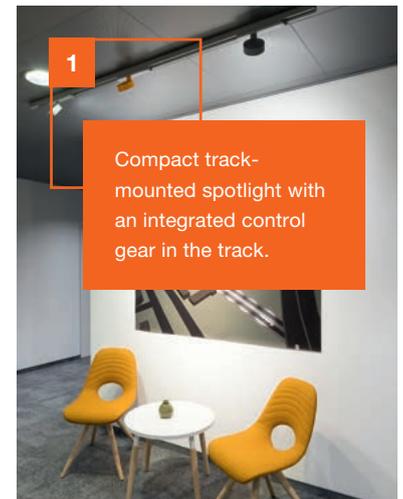
2. BIOLUX HCL system



Single-colored or color-changing LED Strips provide modern accents in any ambience.

CASE STUDY THE OFFICE OF THE FUTURE IN LANDMARX, VIENNA

This comprehensive lighting concept from LEDVANCE which has already been implemented is a great example of a future office and gives you lots of ideas. Here, efficient LED luminaires and innovative technologies such as human centric lighting (HCL) were combined to create modern working environments. What's more, standard and tailor-made lighting concepts provide beautiful design accents.



Compact track-mounted spotlight with an integrated control gear in the track.



THE CHALLENGE

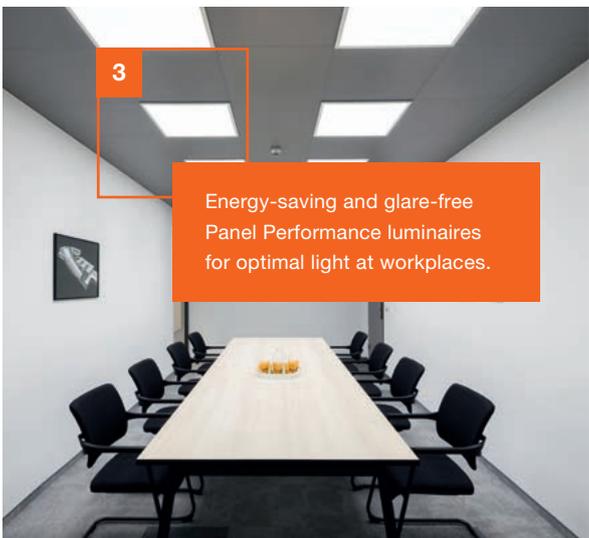
In the striking Landmarx office building, an independent part of the T-Center in Vienna, several office units were to be rented out long-term. Part of the building was completely renovated for this purpose. One office unit served as a sample office. Quadoro GmbH as an asset management company was commissioned by KTB Liegenschaftsbesitz GmbH to find a lighting expert who would equip the various rooms of the sample office with an attractive and convincing lighting solution for potential tenants.

→ To see other projects go to ledvance.com/projects



THE SOLUTION

The reason why LEDVANCE was chosen was our innovative LED lighting concept for the whole office. Key elements were LEDVANCE TRACKLIGHT SPOT COMPACT luminaires with yellow housings which perfectly fit the customer's wishes. Indirect lighting from LEDVANCE LED Strips in the reception area and the LEDVANCE BIOLUX HCL system for the meeting room which adapts its light to the changes in natural daylight are just as impressive. And DOWNLIGHT luminaires and the VINTAGE 1906 BUBBLE PENDANTS complete the lighting concept.



Energy-saving and glare-free Panel Performance luminaires for optimal light at workplaces.



1. TRACKLIGHT SPOT COMPACT



2. LED STRIP PERFORMANCE CLASS



3. PANEL PERFORMANCE

BUILDING RENOVATION: BETTER LIGHT AND ENERGY SAVINGS

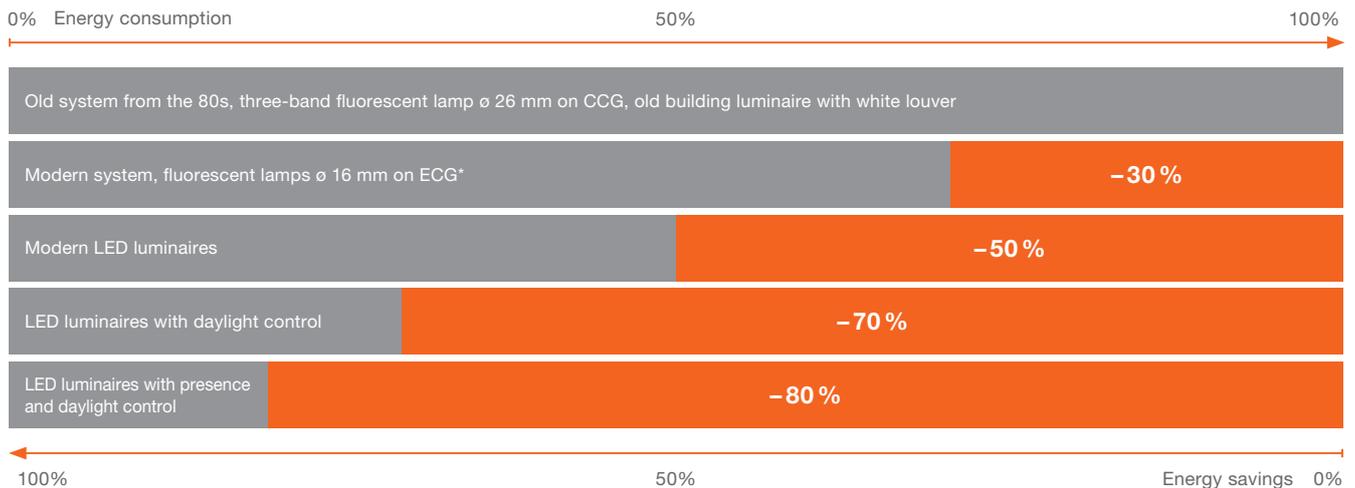
A look at numerous offices shows that many lighting systems are outdated and far from future-proof. Renovation sustainably reduces energy consumption, saves costs and brings a significant increase in lighting quality.

CO₂ REDUCTION

In the EU, the building sector accounts for around 36 % of total CO₂ emissions. Since 35 % of the buildings are over 50 years old, there is great renovation potential in this area. The goal is to reduce CO₂ emissions on the European construction market by at least 55 % by 2030 through

energy-related retrofits and efficient technology. The EU countries support this goal with subsidies for energy-related building renovation. LEDVANCE's economical LED and connected lighting solutions are an excellent match for these savings.

POTENTIAL SAVINGS FOR INTERIOR LIGHTING – EXAMPLE OF A 2-AXIS OFFICE



* Fluorescent lamps with low power loss, luminaires with modern directional lighting technology.

Source: licht.de

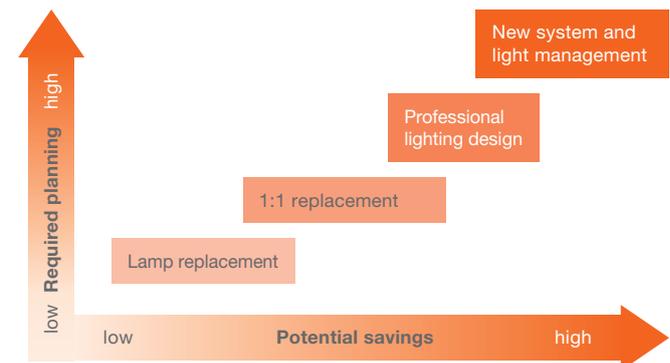
A carefully planned change to sustainably efficient lighting brings clear benefits for your customers:

- Permanent reduction in electricity and operating costs
- More lighting quality to make working more pleasant
- Compliance with all legal requirements
- Preservation of the building as an investment

YOU ASK THE QUESTIONS – WE HAVE THE ANSWERS

Do you need more information on our products or SLR/ELR? Our experts are happy to advise you. You can reach our technical team at technik@ledvance.com or by phone on +49 89 780673-680

RENOVATION OPTIONS AND POTENTIAL SAVINGS



Four retrofit stages: increased comfort and potential energy savings with each stage.

Source: licht.de

GOOD LIGHT ALL ROUND

THE FULL LEDVANCE RANGE

LEDVANCE is leading the fight against bad light in every area. That's good news for you because when it comes to future-proof solutions relating to luminaires and lamps, HCL systems, electronic components, light management and smart residential products, you have a competent partner in LEDVANCE on your side for your complex lighting projects. You can always rely on LEDVANCE for excellent brand quality, professional service and a good price/performance ratio.



AESTHETICALLY FUNCTIONAL LUMINAIRES

The extensive luminaire portfolio covers virtually all professional and residential applications and delivers outstanding quality and functionality. The new BIOLUX HCL system is a winner of the VDE Quality Certificate, and the Red Dot 2020 Product Design and 2020 German Innovation Awards.

EACH LAMP A LIGHTING SOLUTION

The lamp portfolio includes a wide choice of shapes and base sizes as well as types with additional functions (e.g. sensors), all with outstanding efficiency and durability. Alongside UV-C and LED lamps, LEDVANCE will continue to offer conventional halogen, energy-saving, fluorescent and gas discharge lamps.

FLEXIBLE LED STRIP SYSTEM

The LED Strip System includes a large number of flexible LED strips, drivers and matching accessories. With a wide range of luminous fluxes and light colors, the system allows bespoke lighting solutions to be created for virtually any indoor or outdoor application. Easy to plan, easy to combine and easy to install – that's the principle here.

VIVARES: LIGHT MANAGEMENT, MORE COMFORTABLE THAN EVER

The future-proof IoT light management system (LMS) from LEDVANCE makes it easier and more flexible than ever to always produce optimal lighting conditions for defined requirements. The system is extremely reliable and compatible and offers all LMS components and matching LED luminaires from one source.

SMART LIGHTING FOR RESIDENTIAL APPLICATIONS

Our smart residential products offer a comprehensive combination of innovation, quality, reliability and user-friendliness. We provide a suitable solution for a variety of requirements that intelligent lighting has to meet.

MORE INFORMATION AND CLEVER TOOLS

For more information on LEDVANCE's extensive product portfolio and clever apps and tools that will help you in your day-to-day work go to [ledvance.com](https://www.ledvance.com)

ABOUT LEDVANCE

With offices in more than 50 countries and business activities in more than 140 countries, LEDVANCE is one of the world's leading general lighting providers for professional users and end consumers. Having emerged from OSRAM's general lighting division, LEDVANCE offers a wide-ranging portfolio of LED luminaires for a broad spectrum of applications, intelligent lighting products for Smart Home and Smart Building solutions, one of the most comprehensive ranges of advanced LED lamps in the lighting industry, traditional light sources, an LED Strip System and light management systems.



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LEDVANCE is licensee of product trademark OSRAM for lamps products in general lighting.

LEDVANCE.COM

