

LEDVANCE.COM



LEDVANCE

POWER THROUGH LIGHT

NEW SOLUTIONS

NEW BENEFITS

NEW ERA

HIGHLIGHTS 2024



Jue Wang,
Executive Senior Vice President

PROFILE

Jue Wang joined LEDVANCE in December 2020 as CFO and board member. In her new role as Executive Senior Vice President, she oversees the Regional Managing Directors. In this position, Jue Wang looks forward to advancing customer relationships under the umbrella of “POWER THROUGH LIGHT”.

Dear Readers,

We live in exciting times. To be successful in the long term, it’s more important than ever to plan today for tomorrow. In our industry, this can only mean rethinking the potential of light. LEDVANCE is again a pioneer in this area. Because with our “POWER THROUGH LIGHT” concept we are heralding a new era of light.

Specifically, this means that LEDVANCE delivers innovations – even beyond classic lighting. We are broadening our horizons in terms of what light can accomplish for our customers, our partners and our day-to-day business. We are bringing the best out of light and are now offering photovoltaic solutions alongside our extensive range of lamps and luminaires.

In each and every one of our business units we stand for user-oriented and intuitive solutions. Our full range of innovative LEDs, all-round service and tailor-made concepts give our customers the unique and energy-saving solutions they need to succeed.

We recognize the crucial importance of sustainability, particularly in the context of the energy crisis and climate change. Sustainability plays an integral role in LEDVANCE’s corporate philosophy. Our commitment extends beyond product and environmental management to our interactions with employees, suppliers, and society. With these considerations in mind, we develop innovative solutions that contribute to positive change – for a greener planet and a better quality of life. The EcoVadis Silver Medal that we were awarded in 2023 for our achievements in the areas of “Environment”, “Labor & Human Rights”, “Ethics” and “Sustainable Procurement” serves as both validation and motivation for our ongoing efforts.

In this magazine, we will show you how we combine innovation, sustainability and efficiency for the benefit of our customers. I invite you to join LEDVANCE in harnessing the power of light.

Sincerely, Jue Wang

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“FOR US, SUSTAINABILITY IS NOT AN AFTERTHOUGHT BUT A BENCHMARK FOR INNOVATIVE PRODUCTS”

AN INTERVIEW WITH JEAN-MARC VOGEL,
MANAGING DIRECTOR
WESTERN EUROPE AT LEDVANCE

Mr Vogel, why does LEDVANCE, a leader in general lighting, now also offer photovoltaic systems?

JEAN-MARC VOGEL: Actually, if you think about it, lighting and PV have some common ground, both based on silicon technology. Plug a luminaire into the grid and it will produce some light. Expose a solar panel to the sun and it will produce electricity. We aim to give our customers the opportunity to harvest the power of light on an entirely new scale: for lighting and power generation, fully in keeping with our new brand positioning of “POWER THROUGH LIGHT”. Against this backdrop, we use intelligent energy solutions such as solar technology and innovative lighting systems to provide improved working and living environments. We are also sending a signal for greater sustainability and are giving our customers the option to benefit

from this change through tangible savings in energy costs.

In what way is LEDVANCE really becoming “greener”?

JEAN-MARC VOGEL: By pledging to contribute to a greener planet as a company. We aim to significantly reduce our CO₂ emissions and the waste associated with our work by developing and implementing sustainable products, solutions and processes. For us,

“Commitment to greater sustainability is effective only when applied across the entire chain. That’s why we’re providing sustained impetus throughout all areas of application.”

sustainability is not just an afterthought but a benchmark for truly innovative products and a crucial ingredient for our corporate strategy. With this in mind, we increase lighting efficiency by means of a strategically planned product lifecycle, contribute to an effective circular economy and promote people’s health and well-being.

Where is this focus on sustainability specifically reflected in the range?

JEAN-MARC VOGEL: Commitment to greater sustainability is effective only when applied across the entire chain. That’s why we’re providing sustained impetus throughout all areas of application. Using new retrofit LEDs in outdoor lighting LEDification, increasing energy efficiency with the Panel Protect luminaire family, and, thanks to our EVERLOOP product segment replacing light sources and

control gear in LED luminaires very easily and therefore making them truly circular.

What other priorities will LEDVANCE have in the future?

JEAN-MARC VOGEL: Regardless of its enormous importance, sustainability is just one of several areas we are particularly invested in. We aim to set new standards in luminous efficacy and output with a new generation of products. The same applies to groundbreaking design concepts, such as the new decorative luminaires for residential application, or when it comes to the variety of types in the new high bay generation. Speaking of variety, our new and existing product solutions are not just available “off the shelf”. Many products can be customized as part of our SPECIFY program.

Thank you very much for your time.

PROFILE

Jean-Marc Vogel, CEO Europe West has been at LEDVANCE/OSRAM since September 2012. Prior to joining LEDVANCE, Jean-Marc Vogel worked at Siemens in Germany and Canada for 14 years. He brings over 25 years of experience in portfolio development, product management, sales and marketing in high-tech companies and over 10 years of market experience in the lighting industry.

POWER THROUGH LIGHT

MORE LIGHT, MORE POWER
SUSTAINABLE SOLUTIONS
FROM LEDVANCE

Here at **LEDVANCE** tradition meets innovation. Back in 2016 we spun off from lighting pioneer **OSRAM** and have now successfully established ourselves as a global player on the lighting market. Our next goal is to turn **LEDVANCE** into the world's leading supplier of sustainable lighting solutions that will give a real boost to people's productivity, health and well-being.

True to our motto of "POWER THROUGH LIGHT" we also empower our customers to fully use the possibilities of light, both as a means of illumination and for power generation. Our intelligent energy solutions, solar technologies and modern lighting

systems for improved working and living environments help our customers to make significant savings in energy costs. We are also committed to a greener planet by reducing CO₂ emissions and waste through sustainable products, solutions and processes.

And when it comes to future legal requirements to be met by sustainable lighting solutions, the products from **LEDVANCE** always put you as a wholesaler, installer, facility manager or electrical planner and their customers in a good position. Let's work together to use the full power of light!

OUR VALUES

THE DNA FOR SUCCESSFUL PARTNERSHIPS



EXCELLENCE FROM A SINGLE SOURCE

For us, good isn't good enough if we can do better. Only then can we make your lighting projects a sustainable success. You can get all the necessary components at LEDVANCE – from individual products to lighting systems. This allows us to deliver holistic solutions for a variety of demands using top-quality LED technology.
#StrivingForExcellence



SHAPING CHANGE

We want to be ahead of the global curve when it comes to developing sustainable lighting solutions. That's why our top priorities are energy and resource efficiency as well as the circular economy. We are convinced that sustainability is the only possible way to lasting success. Join us on our journey to a sustainable future.
#MakeChangeHappen



BETTER TOGETHER

Teamwork is everything to us – in our company and with our customers. It's these long-term relationships built on trust, our extensive portfolio, powerful sales network and outstanding global access to markets that make LEDVANCE your ideal strategic partner to turn your goals into reality.
#WinningTogether



COURAGE TO TREAD NEW PATHS

You don't reach big goals by following beaten tracks. The lightning-fast developments in our industry give us a chance to come up with new products, enter new markets and change the way we think. We embody progress and innovation and want to shape the future of light by combining our over 100 years of lighting expertise with the courage to tread new paths.
#BreakingNewGround

LEDVANCE IN FIGURES

OFFICES IN MORE THAN
50 COUNTRIES

ACTIVE IN MORE THAN
140 COUNTRIES



GLOBAL PRODUCTION TO THE HIGHEST STANDARDS

WORKING TOGETHER WITH LEDVANCE MEANS:



HOLISTIC SOLUTIONS

Products and systems for your projects



ACTIVE SUPPORT

Lighting experts for lighting planning and other services at your side



GREEN AGENDA

Focus on sustainability through energy efficiency and the circular economy



SOLUTIONS BEYOND LIGHT

Bespoke photovoltaic solutions



INDIVIDUAL SOLUTIONS

Lighting concepts tailored to your projects



PROFESSIONAL TRAINING

Fit for the project and market requirements of the future



VARIOUS TOOLS

For efficient, customer-focused work

YOUR ONE-STOP SHOP

Are you looking for the perfect solution for your lighting project? Then LEDVANCE is your best choice. We are constantly working to tailor our products and services to your needs and wishes with our comprehensive, innovative and sustainable range: with customer-focused support and with offers that show light in a new dimension.



LEDVANCE – YOUR PARTNER FOR SUCCESSFUL LIGHTING PROJECTS

SIMPLY RELIABLE

We advise you on all matters relating to legal regulations, energy efficiency, installation and maintenance. We also plan your lighting project from A to Z and develop solutions tailored to you – throughout the world thanks to our global sales network.

SIMPLY FUNCTIONAL

Whether you need lamps, luminaires or light management systems – you'll get everything from a single source from us. Your benefits include perfectly matched components, easy installation and a perfectly functioning system. Based on state-of-the-art LED technology and with a guarantee of up to five years.

SIMPLY FUTURE-PROOF

EU-compatible LED lamps and tubes, high-efficiency luminaires or IoT-based light management systems – our innovations save energy and CO₂, increase well-being and user comfort and meet all the legal requirements for future-proof lighting.

ADVANCING SOLAR ENERGY LEDVANCE RENEWABLES



LEDVANCE stands for advancing light. Now it also stands for ADVANCING SOLAR ENERGY. Why is that? We are lighting enthusiasts. Sunlight is our inspiration. We bring light into people's lives and are driven by the goal of increasing our impact on net zero.

By harnessing the power of the sun, we enable private and business customers to generate their own clean energy, reduce their dependence on traditional energy sources and minimize their impact on the environment – we fuel people's lives with smart energy.

LEDVANCE offers a unique vertically integrated solution for the building sector covering energy supply, energy storage, energy use and integration with power systems. LEDVANCE Renewables not only drives positive change, but also contributes to a brighter, greener future for our planet.

1



**PHOTOVOLTAIC
PANELS**
LIVING THE
WAY OF
ACTING MORE
SUSTAINABLY



2



INVERTERS
LIVING THE
EFFECT OF
COST SAVINGS



3



**BATTERY
STORAGE
SYSTEM**
LIVING THE
FEELING OF
INDEPENDENCE



4



**LEDVANCE
RENEWABLES
APP**
LIVING THE
COMFORT OF
INTELLIGENT
ENERGY
MANAGEMENT





THE WHOLE PHOTOVOLTAIC SYSTEM FROM A SINGLE SOURCE



LEDVANCE Renewables is the one-stop shop for photovoltaic systems, offering a comprehensive range of products and services. Our solutions seamlessly integrate photovoltaic panels, inverters and batteries, all specifically designed for both residential and commercial applications.

To enhance user experience and convenience, we have developed the LEDVANCE Renewables App, which allows you to monitor your photovoltaic system effortlessly, anytime, anywhere. Stay connected to your energy production and ensure optimal performance and efficiency with this smart tool. With a strong commitment to reliability and excellence, LEDVANCE also offers technical support to help you with any questions you may have regarding our high quality photovoltaic solutions.

Our comprehensive and integrated approach covers all aspects, from consulting and supply of the complete photovoltaic systems to performance and energy monitoring as well as technical support.

A detailed overview of the photovoltaic assortment can be found at: ledvance.com/renewables

Any questions? Get in touch with us:
contact@ledvance.com



4 COMPONENTS MANY ADVANTAGES

01 PHOTOVOLTAIC PANELS

Our panels are designed to meet various requirements from residential to commercial applications. You can choose between power ratings from 405 to 660 W, monofacial or bifacial modules and from a variety of designs.



02 HYBRID OR STRING INVERTERS

We offer robust, highly efficient and smart string as well as hybrid inverters – all compatible with various photovoltaic system components. By meeting all technical and safety requirements our inverters are easy to install, to operate and to handle.

03 BATTERY STORAGE SYSTEM

Our various battery types are available for ideal performance and energy storage, which can be expanded in modular form at any time. The range covers low-voltage batteries from 5.12 to 20.48 kWh and high-voltage batteries from 8.19 to 20.48 kWh.

04 LEDVANCE RENEWABLES APP

The LEDVANCE Renewables App provides a convenient overview of the entire photovoltaic system and its energy management. Find out in real time about the status of battery levels, inverters and the power consumption or you can decide when it is most profitable to sell electricity back to the grid.

INTERACTION OF SYSTEM COMPONENTS



LEDVANCE RENEWABLES – SYSTEM OVERVIEW

	RESIDENTIAL	COMMERCIAL
PANELS	▶ < 2 m² area ▶ In silver or black frame and full black colors ▶ P- and N-type technologies	▶ > 2 m² area ▶ Mono- and bifacial ▶ P- and N-type technologies ▶ Up to 670 W_p
INVERTERS	▶ Hybrid or string, 1/3 phase ▶ Intelligent monitoring	▶ High efficiency ▶ Multi MPPT of up to 8 ▶ Up to 110 kW power
BATTERIES	▶ Low voltage and high voltage stack system ▶ Easy to extend ▶ Capacity up to 24.5 kWh, 6 000 charging cycles	

SUSTAINABILITY OUR STRATEGY

SUSTAINABLE SUCCESS MANY WAYS, ONE DIRECTION



Sustainability is a hot topic of our time. But just talking about it isn't enough. Instead we need to back up our good intentions with concrete action. That's why LEDVANCE has come up with a new, comprehensive sustainability strategy to create a solid foundation for aligning the company with a sustainable future.

At LEDVANCE, sustainability is not a destination but a continuous journey. It's about more than just being environmentally conscious; it's about reshaping our practices, reducing our carbon footprint, creating collaborative spaces, and promoting ethical business conduct. This includes new product ranges, reducing CO₂ levels by a million tonnes annually in transportation and improving demand planning with AI.



ECO PASSPORT – VERIFIED ENVIRONMENTAL INFORMATION ABOUT PRODUCTS

Sustainability needs reliability. That's why LEDVANCE offers you and your customers lighting solutions with Type III environmental product declarations from the PEP ecopassport® program. The verified declarations* are based on life cycle assessments which determine the ecological footprint of a product and precisely document and explain the data, including its energy demand and global warming potential.

* According to DIN EN ISO 14025 and DIN EN 15804+A2

SUSTAINABLE WITH OUR SEAL OF APPROVAL

LEDVANCE is aware of its responsibility as a global company. Just how serious we take our commitment is demonstrated by the silver medal awarded by EcoVadis, one of the world's most renowned providers of sustainability assessments.



Performance
of LEDVANCE
in EcoVadis
business
sustainability
rating

FROM LINE TO LOOP

WE INTRODUCED THE “LEDVANCE LOOP”, A NEW UMBRELLA SUB-BRAND THAT CONSOLIDATES ALL OUR GLOBAL SUSTAINABILITY EFFORTS AND MEASURES.

Our sustainability tagline “From line to loop” refers to LEDVANCE’s transition from linear processes (take-make-waste) to circular ones (take-make-reuse + repeat).



EVERLOOP GREAT YESTERDAY, BETTER TOMORROW

EVERLOOP is the designation that we give to luminaires with conveniently replaceable LED light sources and drivers.

This promotes the circular economy by maximizing the luminaire’s lifespan as certain components can be replaced individually, rather than having to replace the whole luminaire. EVERLOOP is not only a sustainable choice but also a convenient one for installers.

See more: ledvance.com/everloop-video

OUR EVERLOOP RANGE:
Linear IndiviLED, Damp Proof, Surface Flat



NATURELOOP YESTERDAY’S PLASTIC FOR TOMORROW’S LIGHT

NATURELOOP is the designation that we give to products that are sourced from and are packaged in recycled materials.

Our commitment: any LEDVANCE product marked with the NATURELOOP badge will contain at least 40 % recycled plastic content based on the plastic of the product*. It will also be delivered in plastic-free packaging that is made from at least 80 % recycled paper. Our NATURELOOP packaging is fully recyclable.

Various LED Classic NATURELOOP LED lamps available for general lighting in private households.

Assortment at: ledvance.com/natureloop



* Calculation must be based on applicable standards e. g. Ecodesign Directive 2009/125/EC, DIN EN 15343:2008-02, DIN EN 45557:2020, etc.



EVERLOOP

THE FUTURE
IS CIRCULAR

LINEAR INDIVILED THE FUTURE HAS BEGUN



Using its new direct or indirect Linear IndiviLED luminaires, LEDVANCE demonstrates how a sustainable circular economy can be combined with modern, individual and efficient lighting.

Thanks to great light output, excellent color rendering and an ideal distribution of direct and indirect light, Linear IndiviLED is always the right product for environments where a high quality of light and people's well-being are equally important – from offices to educational establishments.

Unlike conventional LED luminaires, this product's drivers and light sources are easy to replace and upgrade – either as a pendant or surface-mounted luminaire, or as an individual luminaire or light strip, depending on your needs.



WOULD YOU LIKE MORE INFORMATION?

Just scan this QR code and check out the special benefits of EVERLOOP in our explainer video: ledvance.com/linear-indiviled-video

Discover more about our new EVERLOOP luminaires at: ledvance.com/everloop



OUR EVERLOOP PIONEERS

LINEAR INDIVILED DIRECT AND LINEAR INDIVILED DIRECT/INDIRECT

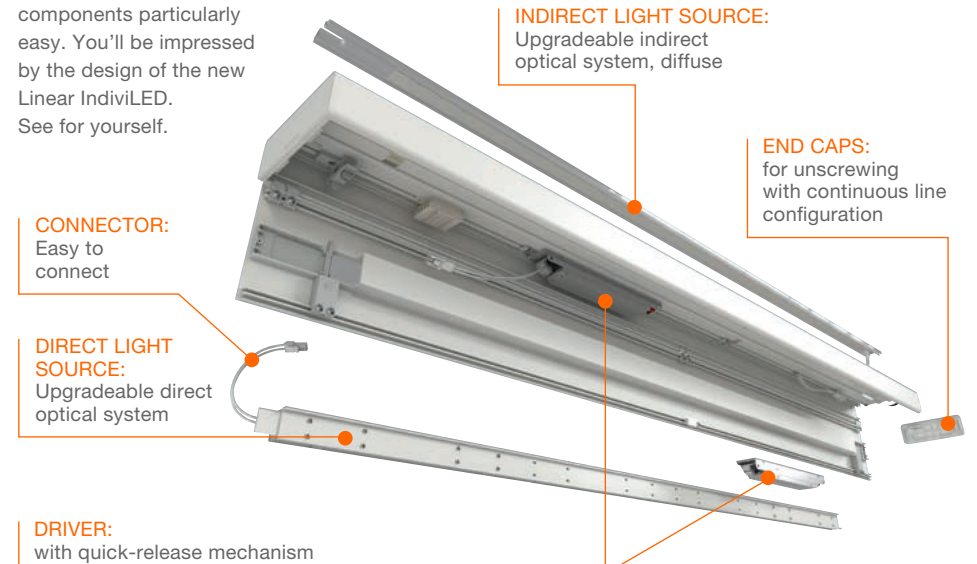
The Linear IndiviLED luminaires are the first products in the new EVERLOOP range from LEDVANCE and are both available as on/off versions or ones with additional functions. Here are the most important facts at a glance:

- ▶ Light source and driver easily replaceable and upgradeable
- ▶ Tailor-made look with direct (70 %) and indirect (30 %) light distribution
- ▶ High flexibility thanks to Power Select driver (ON/OFF), programmable DALI-2 IoT driver and different lumen packages
- ▶ Very good efficiency (up to 137 lm/W)
- ▶ Excellent color rendering (CRI 90), homogeneous light distribution and reduced glare thanks to UGR19
- ▶ Long life up to 100 000 h (L70/B10 @ 25 °C)
- ▶ Zigbee, emergency, daylight and motion DALI sensor types available
- ▶ Wide range of mounting options thanks to various accessories



HOW EVERLOOP LINEAR INDIVILED WORKS IN DETAIL

EVERLOOP luminaires are thought through right down to the last detail and are highly functional. This makes installing them and replacing components particularly easy. You'll be impressed by the design of the new Linear IndiviLED. See for yourself.



SIMPLY SWITCH TO LED NOW!

FLEXIBLE SOLUTIONS FOR AN EASY SWITCH

The ban on mercury-containing and inefficient lamps has been in force since 2023. With high energy costs and increasing demand for sustainable lighting, now is the best time to move over to EU-compliant, energy-efficient and cost-effective LED lighting.

LEDVANCE offers an alternative for every need with a comprehensive range of luminaires, intelligent lighting products and advanced LED lamps. The solutions with LED lamps are simple and economically attractive as the luminaire can be retained. Switching to LED luminaires can also optimize light output and quality, which can also significantly increase productivity.

SOLUTIONS WITH LED LAMPS



RETROFIT



Switching from fluorescent lamps to LED lamps in existing luminaires is quick, easy and economical – either as retrofits or conversions.

Simple 1:1 replacement

- The most cost effective LED alternative for installations with CCG or compatible ECG
- Wide range of LED tubes and DULUX LED for easy, quick and safe lamp replacement

Rewiring or modification

- If there is no retrofit alternative or if the customer values maximum energy savings and low maintenance
- Wide range of LED tubes and DULUX LED for operation directly on AC mains
- Optional matching conversion kits for LED tubes for easy rewiring
- LED TUBE EXTERNAL SYSTEM when a dimmable LED tube or emergency lighting solution is needed

CONVERSION



SOLUTIONS WITH LED LUMINAIRES



UPGRADE



If the focus is on optimal light output and quality, maximum efficiency and perhaps added benefits, it's worth upgrading the luminaires or installing new ones.

Upgrade luminaire

- If an existing luminaire needs to be kept but electric or mechanical interfaces are too old for a retrofit or conversion

New luminaire

- If the existing housing or other components have reached the end of their life
- If lighting performance requirements have changed (e.g. light distribution or quality)
- If a light management system needs to be integrated, or there's an upgrade to human centric lighting
- If aesthetical or functional design requirements have changed

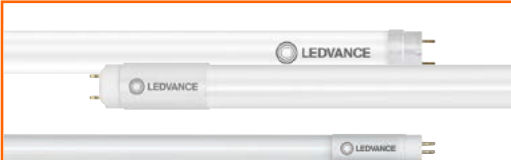
NEW INSTALLATION



YOUR SHORTCUT TO THE RIGHT LED LAMP ALTERNATIVE

Go directly to the Lamp Finder:
ledvance.com/lampfinder



LED TUBE T5/T8

A good position to be in: LEDVANCE offers a comprehensive range of innovative LED tubes which always provides the right solution for many different applications.

RETROFIT	CONVERSION
	LED TUBE T8 EM LED TUBE T8 UNIVERSAL
LED TUBE T8 HF	
LED TUBE T5 HF	LED TUBE T5 AC MAINS
	LED TUBE EXTERNAL SYSTEM: LED TUBE T8/T5 EXTERNAL LED DRIVER EXTERNAL

DULUX LED

All DULUX LED lamps are suitable for retrofit and can be converted to 230 V.



How to convert your DULUX LED lamp to 230 V: please find more information in the installation guide ledvance.com/services



LED TUBE EXTERNAL SYSTEM

T8/T5 LED TUBE and LED DRIVER EXTERNAL:
The perfect solution for switching from old fluorescent lamps and dimmable DALI control gear to efficient and dimmable LED tube technology.



DAMP PROOF HOUSING

DAMP PROOF HOUSING is a robust, IP65-protected, IK08-rated, economical and – thanks to the replaceable T8 LED tube – sustainable lighting solution: easy to handle, faster to install and even more versatile to use.



LINEAR MAGNETIC BATTEN KIT

LINEAR MAGNETIC BATTEN T5 is an innovative luminaire insert using strong magnets for easy LED modernization of existing T5 and T8 metal louver luminaires – especially if the luminaire has other functions or its connections are too old for retrofitting. The CE label doesn't need to be reapplied by the installer.



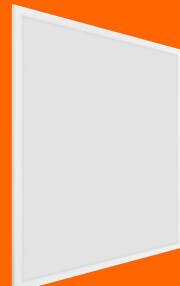
NOT SURE WHAT TO CHOOSE?

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

Email: contact@ledvance.com
Phone: +49 89 780673-660

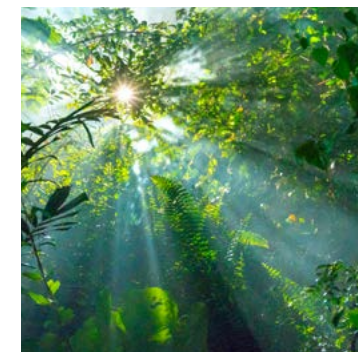
LED PANELS

When it comes to LED panels, LEDVANCE has an impressive portfolio for a wide range of needs – from ON/OFF solutions and HCL-compatible models to integration into light management systems via DALI or Zigbee.



LED TRUNKING SYSTEM

A highly efficient, versatile and durable solution, TRUSYS FLEX is LEDVANCE's trunking system for a variety of applications with different luminaire inserts.

BEST PLANS, BEST LIGHT

OUR SERVICE OFFERING FOR YOUR PERFECT PROJECT MANAGEMENT

Every successful project starts with a good plan. So why not benefit from our tailor-made advice for planning your lighting project smoothly and successfully? We take care of the whole process and offer you individual solutions for your wishes. Your options at a glance.



PROFESSIONAL LIGHTING DESIGN:

DIALUX AND RELUX: Thanks to our cooperation with software manufacturers DIALux and RELUX, LEDVANCE products can be easily integrated into your lighting plans. Our luminaire data is also **BIM-compatible** and we support users in the form of consultation, calculation and after-sales services.

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.

YOUR BENEFITS AT A GLANCE:

- Uniformly good light distribution
- Precise wattage per m²
- Maximum efficient calculation of required number of luminaires and VIVARES components

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.

WE CARE ABOUT THE ENERGY TRANSITION

We help you make the most of our photovoltaic solutions – from initial planning and calculation to final implementation.



Are you interested in our services for your projects? Our experts are happy to advise you. You can reach us at:
contact@ledvance.com
 +49 89 780673-600

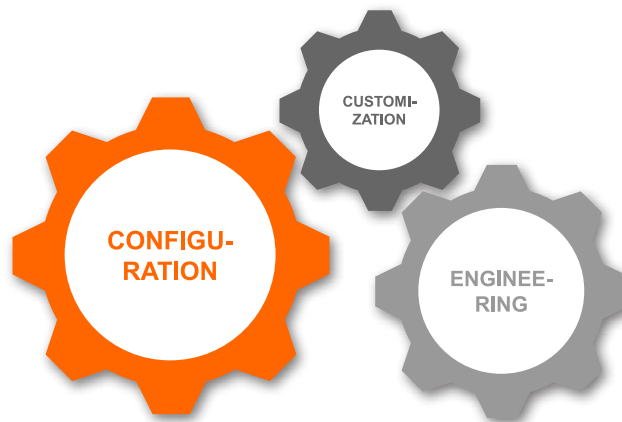
WHATEVER YOU WANT SPECIFY – PRODUCTS MADE FOR YOU

SPECIFY

Even the smallest changes can turn a good lighting solution into a perfect one. Do you want to integrate a presence sensor? Perhaps tweak the wiring and connections? Or adjust the housing colors of the luminaires? With SPECIFY we make all this possible for you and much more.

Depending on requirements, the SPECIFY program comprises three stages – from a slightly modified standard solution to a completely customized product:

- **Configuration:** We adapt products from our portfolio to precisely suit your needs by replacing individual components.
- **Customization:** We modify our products to meet your individual requirements.
- **Engineering:** We develop and deliver special solutions outside our range together with our European partners.



ANY QUESTIONS? TALK TO US.

Discover the possibilities of the SPECIFY program and make your lighting projects even more successful. We are happy to offer you individual advice. Just get in touch at: contact@ledvance.com



CUT ON DEMAND SERVICE FOR LED STRIP SYSTEMS

LEDVANCE offers you a Cut on Demand service from its broad portfolio of LED strips that are prewired on both sides, and tailor-made electronic components.

We'll put together all the components you need for your specific requirements.

The Cut on Demand options from our LED strip range include ...

- tailor-made cutting of LED strips, profiles and covers
- variable cabling options in different lengths
- painting of profiles in different RAL colors and coatings
- assembly of all elements – from drivers to end caps

Find out more:

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

SHINING SUCCESS STORIES

DISCOVER OUR INTERNATIONAL PROJECTS

LEDVANCE boosts the power of light around the world. We are a global player and come up with ideas for innovative sustainable lighting in more than 140 countries, where we use our know-how to provide better lighting. Our solutions are as varied as the wishes and needs of our customers. See for yourself.

MUNICIPAL POOLS OF SON HUGO, MALLORCA, SPAIN



THE CHALLENGE

As part of the modernization of the municipal pools of Son Hugo, a renowned sports and competition venue in Palma de Mallorca, it was necessary to replace the HID lighting in order to achieve energy savings and to enhance the light quality to meet the Class I requirements for hosting international swimming competitions.

THE SOLUTION

LEDVANCE developed and implemented a lighting concept that not only meets the requirements for illuminating the pool areas by increasing the luminous flux by up to 48 % but also optimizes facility maintenance and enables significant energy savings by reducing energy costs by approximately 50 %.

PRODUCTS INSTALLED

FLOODLIGHT MAX PROJECTORS, ECO HIGH POWER FLOODLIGHTS and HIGH BAY LED

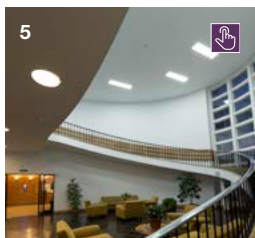
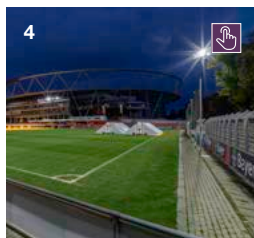
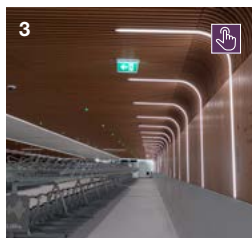


CASE STUDIES



"LANGER EUGEN", GERMANY

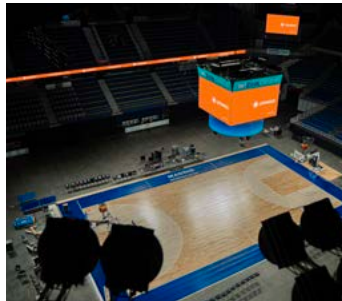
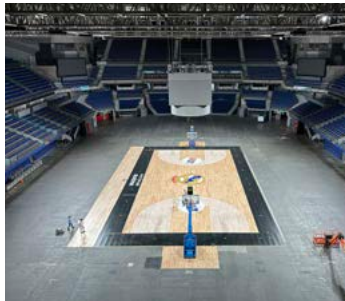
1. KING'S CROSS,
UNITED KINGDOM
2. SCHREINER GROUP,
GERMANY
3. BICYCLE GARAGE,
NETHERLANDS



4. ULRICH HABERLAND
STADIUM, GERMANY
5. EDUARDO TORROJA
INSTITUTE, SPAIN
6. NORSEA POLARBASE,
NORWAY

WIZINK CENTER, MADRID, SPAIN

SPORTS LIGHTING AT ITS PEAK



SPECIFY

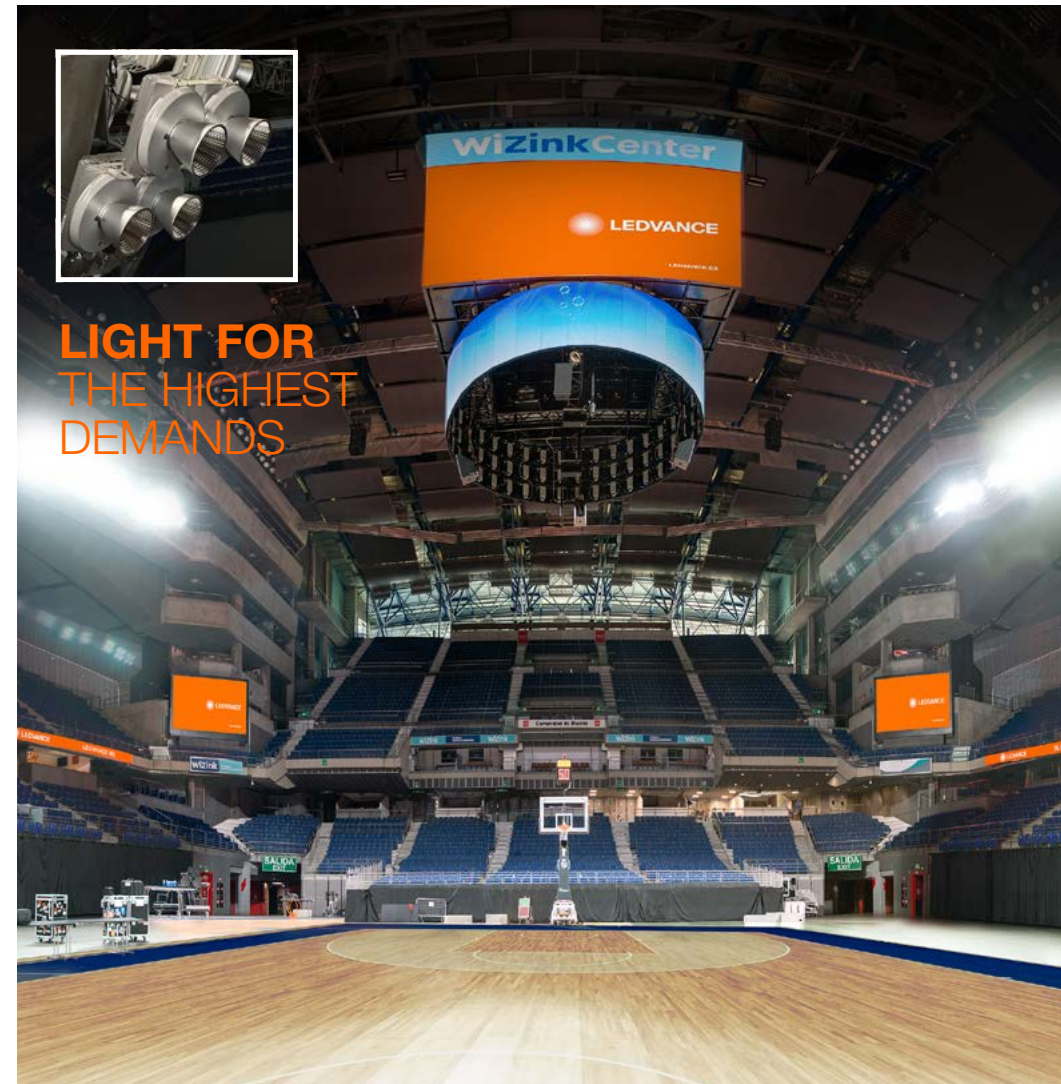
THE CHALLENGE

The WiZink Center, a key venue in Madrid for cultural and sports events with a capacity of up to 18000 spectators, serves as the home arena for multiple basketball clubs. To enhance the lighting at WiZink Center, LEDVANCE provided a tailored solution to meet the challenging needs of sports and entertainment. With the venue hosting international basketball events, the objective was to surpass FIBA's competition standards for luminance and color rendering while offering adaptable intensity control.

THE SOLUTION

The new lighting meets all the necessary requirements for Class I basketball games with television broadcasts at both national and international levels. LEDVANCE has developed custom LED projectors according to the client's needs and the capabilities of the venue. A total of 224 320W LED modules, with a very high color rendering index (CRI), are assembled in groups of four LED modules, with external and independent power supply and DMX control. This setup allows for individual control of each lighting module. The lighting system has been fully designed and manufactured in Europe.

- **The new system implemented meets all the requirements for basketball games and television broadcasts at both national and international levels. The new lighting offers multiple benefits, including a significant improvement in color reproduction on television, increased brightness levels, and uniformity on the court.**



**LIGHT FOR
THE HIGHEST
DEMANDS**

ANY QUESTIONS? TALK TO US.

Would you like to know how we can support your projects? Feel free to ask; we look forward to hearing from you! contact@ledvance.com
+49 89 780673-600

All project information and other cases can be found here:

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





VIVARES

**LIGHT
MANAGEMENT
IS VIVARES
VERSATILE AND
POWERFUL
SOLUTIONS**

More sustainable
and efficient with
less energy?



The VIVARES light
management systems
from LEDVANCE
save up to

80%

CO₂ and energy in
office lighting when
you upgrade a fluo-
rescent solution to
LED products at the
same time¹.

Further information
about VIVARES
products can
be found at:

ledvance.com/lms



LIGHT MANAGEMENT FROM A SINGLE SOURCE SUPER EASY WITH LEDVANCE

Are you looking for efficient, intelligent and environmentally friendly lighting? One thing is clear: You can only achieve maximum energy savings by using lighting control – after switching to LED. With the VIVARES light management systems, LEDVANCE offers both single room solutions up to 200m² and floor solutions up to 1000m². Benefit from:

- ▶ control units, luminaires, LED tubes and lamps, sensors and pushbutton couplers from one supplier
- ▶ simple configuration and commissioning from plug and play to more complex, customizable solutions or app control
- ▶ individual support – from lighting planning to commissioning of the system and on-site instruction
- ▶ comprehensive after-sales service
- ▶ a 5-year system guarantee

¹ Potential savings of an optimized sensor-controlled LED lighting system compared to a conventional system with fluorescent tubes

FOR NEW AND EXISTING BUILDINGS THANKS TO DALI OR ZIGBEE TECHNOLOGY



VIVARES DALI THE DALI-2 INDUSTRY STANDARD SOLUTION

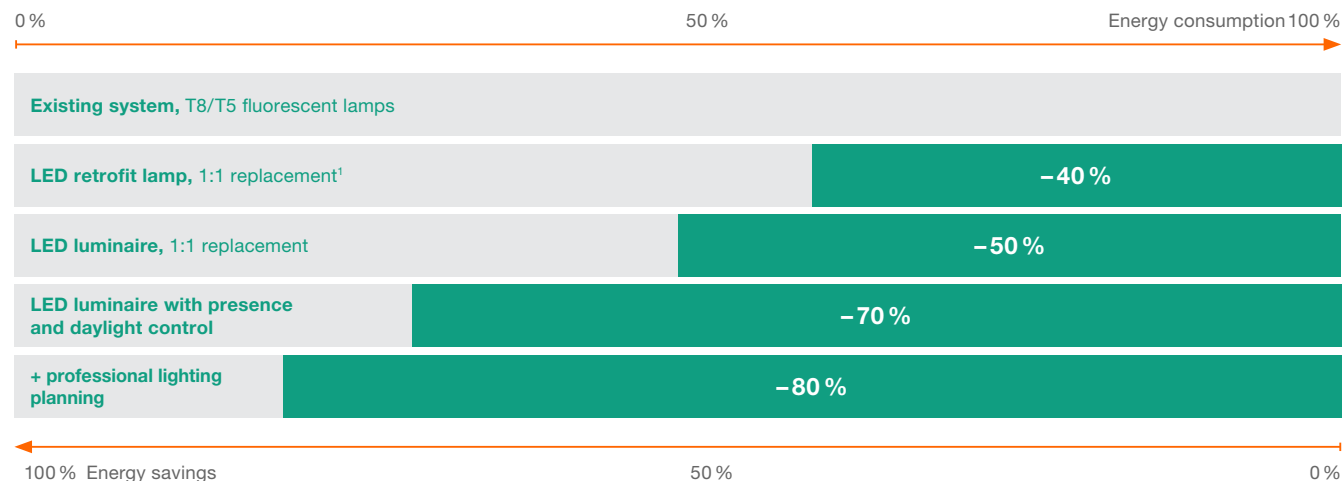
Established for the future: The VIVARES DALI control units are able to control up to 1024 luminaires and 1008 input devices using the established DALI-2 industry standard. They are therefore also compatible with other DALI-2 products on the market. VIVARES DALI systems are suitable whenever additional control lines can be laid without any problems, for example in suspended ceilings, when retrofitting existing DALI installations or when equipping new buildings. With DALI-2 it is even possible to install light management for entire buildings of up to 8000 m². VIVARES DALI also has an optional KNX interface and can be integrated into the building control system.



VIVARES ZIGBEE WIRELESS NETWORK SOLUTION

Perfectly connected: The VIVARES Zigbee control unit communicates with up to 200 compatible devices using the highly reliable Zigbee 3.0 wireless standard. This makes the system the first choice when no additional control lines should or can be laid, for example when modernizing existing buildings or refurbishing listed buildings. VIVARES Zigbee systems are also ideal for changing room situations because the system is flexible and easy to adapt.

EXAMPLE OF POTENTIAL SAVINGS WITH LED LIGHTING



A look at numerous applications shows that many lighting systems are outdated and far from future-proof.

Sustainable modernization reduces energy consumption, saves costs and brings a significant increase in lighting quality.

¹ Efficiency class C, 160 lm/W – light distribution/illuminance must be checked in advance. Source: licht.de

SINGLE ROOMS UP TO 200 m²THE BEST QUALITY
OF LIGHT WITH
HUMAN CENTRIC
LIGHTING

DALI LMS COMPONENTS

OSRAM DALI ECO BT
RTC CONTROL UNIT

BT = Bluetooth interface,
RTC = With real-time clock
functionality

DALI-2 SENSOR
LS/PD O CI

LS = Light sensor
PD = Presence detection
O = Office
CI = Ceiling integration

OUR DALI- AND ZIGBEE-BASED LMS SOLUTIONS FOR SINGLE ROOMS.
WE OFFER YOU BOTH.

NEW:

DALI CONTROL UNITS – MORE STYLISH AND FUNCTIONAL THAN EVER

DALI CONTROL
UNIT TOUCHDALI CONTROL
UNIT TOUCH TWDALI CU
SELECT E TW²DALI CONTROL
UNIT SELECTDALI CONTROL
UNIT SELECT TW

COMING SOON:

ZIGBEE DIRECT – WORK IN
PROGRESS AT LEDVANCE

- no control unit, no control cables
- no IT/WIFI network planning required
- focus on lighting control for one single room

STAY TUNED FOR THE FINAL PRODUCT!

ONE ROOM,
MANY SOLUTIONS

VIVARES offers solutions for single rooms with a size of up to 200 m² based on individually configured light management systems, including up to 50 DALI or 40 Zigbee components and luminaires. Simple, intuitive control from manual and automated lighting control with sensors to app solutions.

YOUR BENEFITS:

- ▶ Clear: one room, one system – install and forget
- ▶ Simple: fully functional LMS following installation
- ▶ Flexible: manual and automatic lighting control
- ▶ Energy-efficient: optimal energy savings achieved through lighting control – after switching to LED
- ▶ Feel-good factor: the BIOLUX HCL human centric lighting system for a positive biological effect with a possible increase in productivity
- ▶ Customizable: Tunable White solutions with adjustable light colors thanks to a wide range of VIVARES control units

¹ www.ecodesignconsultants.co.uk/healthy-buildings/

² E = Exchangeable cover



... of daytime is
spent in rooms with
artificial light.

LEDVANCE
BIO
LUX

BIOLUX HCL
uses human centric
lighting to simulate
the natural changes
in daylight and
increases productivity
by up to ...



in offices¹



in production¹



MANY ROOMS, ONE SOLUTION



Light management systems are supposed to be complex.

LEDVANCE helps you to get off to a great start on your LMS journey:



Installation



Project planning



Energy monitoring and maintenance assistance



Many satisfied customers¹

One light management system for an entire floor? No problem for VIVARES DALI and Zigbee control units. One centrally controlled system can be used across multiple rooms (up to 1 000 m²) with optional IoT* functions. However, the lighting of each room within the floor solution can still be controlled and adjusted separately. Lighting options such as scenes or Tunable White and human centric lighting personalize the light in rooms.

YOUR BENEFITS:

- ▶ Versatile: one system for all requirements
- ▶ Independent: remote access without needing to be present to configure the light management system
- ▶ Transparent: optional VIVARES cloud services with energy consumption monitoring and maintenance management – always keeping an eye on costs
- ▶ Just in time: time settings for individual lighting scenes
- ▶ All options: from standard monochromatic light and Tunable White to biologically effective light with the BIOLUX HCL human centric lighting system through DALI Pro2 IoT control unit

*IoT = Internet of Things. This means that the systems can provide evaluations in the form of dashboards or can be connected to cloud solutions that monitor energy consumption and maintenance cycles, for example.

¹ Proven by reference projects

Want to discover the potential of our cloud services?
You can find out more at: ledvance.com/vivares-cloud

VERSATILE SOLUTIONS FOR ENTIRE FLOORS (UP TO 1 000 m²)



ZIGBEE SOLUTION



PANEL INDIVIED
600 ZIGBEE



ZIGBEE
CONTROL UNIT



SENSOR



PUSHBUTTON
COUPLER





**FLEXIBLE, EFFICIENT,
INNOVATIVE:**
LED LIGHTING WITH VIVARES
LIGHT MANAGEMENT

**ANY QUESTIONS?
TALK TO US.**

Would you like to know how we can support your projects? Feel free to ask; we look forward to hearing from you!
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+49 89 780673-600

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ledvance.com/projects





SCHREINER GROUP GMBH & CO. KG, OBERSCHLEISSHEIM, GERMANY BETTER ILLUMINATED WITH A SYSTEM



THE CHALLENGE

Efficiency in modern businesses is no longer limited to organization and production; today, it also encompasses factors such as intelligent and demand-oriented lighting. Against this backdrop, Schreiner Group GmbH planned to equip the spaces of its corporate headquarters in Oberschleißheim with a new, energy-efficient lighting system. In response to the initial request for 240 switchable LED panels, LEDVANCE proposed combining the transition to LED technology with the installation of the VIVARES Zigbee light management system.

THE SOLUTION

Schreiner Group GmbH decided to install the VIVARES Zigbee light management system. As a wireless system, this is ideal for installation in existing buildings and can communicate with more than 200 Zigbee-capable devices via the VIVARES Zigbee control unit. The system-controlled LED panels ensure significantly improved light quality and more even illumination of different spaces. Compared to the previous lighting, in this case energy consumption is reduced by more than 61 % through LED and another 30 % by VIVARES, as the light intensity adjusts to daylight and turns off when rooms are unoccupied.



VIVARES ZIGBEE
CONTROL UNIT



VIVARES ZIGBEE
SENSOR L/O*

PANEL CMFT 625 P 33W 840 U19 ZBVR

* Light sensor / Occupancy sensor

¹ Compared to luminaires that use fluorescent lamps

² Annual average based on the energy savings indicated, see p. 59 for calculation details



YOUR CONTRIBUTION TO CARBON FOOTPRINT REDUCTION

Switching to LED and installing automated lighting control on top of that is a crucial step in reducing the carbon footprint of lighting.

ENERGY
SAVINGS
WITH LED
UP TO

61 %¹

FURTHER
SAVINGS
WITH VIVARES
UP TO

30 %

CO₂
SAVINGS
WITH
VIVARES

73 %²

OFFICE

Really good office lighting has to satisfy many different demands: promote an ideal working environment, be adaptable to different budgetary situations, protect the climate and save costs through high efficiency, and pay off as an investment as quickly as possible. But how do you accommodate all this? We are happy to show you.



SPOTLIGHT ON EMPLOYEES OFFICES IN A NEW LIGHT

Digital, hybrid, flexible – today modern offices are more than just a functional framework for a variety of workplaces. Modern office spaces are geared towards the needs of employees and call for a networked working culture that harmonizes concentrated work, social interaction and creative teamwork.

An essential factor to make this a success is an innovative lighting concept. That's why LEDVANCE makes your office lighting ready for the future with groundbreaking and user-friendly products and systems. And with sustainable, high-quality and interactive lighting solutions that reduce CO₂ emissions, lower maintenance and energy costs, and most importantly increase employee well-being and performance.

OUR OFFICE HIGHLIGHTS FOR YOU

Versatility is king in professional life – also when it comes to office lighting. That's why our current office highlights meet a wide range of requirements for modern workplace lighting – from the highly efficient and durable **PANEL HIGH OUTPUT** to the **LINEAR INDIVIDUAL DIRECT/INDIRECT 1200 DALI**, which is included in the **EVERLOOP** series and combines sustainability, high quality of light and easy installation.

01 LINEAR INDIVIDUAL DIRECT/INDIRECT 1200 DALI

Focussing on sustainability and the circular economy, this **EVERLOOP** luminaire offers convenient replacement of light source and LED driver, making it ideal for office and education applications. Very good glare control ($UGR < 19$), Power Select, excellent color rendering CRI 90 and up to 137 lm/W, **VIVARES** ready: DALI-2 and Zigbee, multiple mounting options.



UP TO
-50 %¹
ENERGY

UP TO
-47 KG²
CO₂

02 DULUX LED D26 VT EM & AC MAINS

LED solution to replace compact fluorescent lamps (CFLni) like in offices, hallways or shop applications. Easy relamping thanks to compact design, low energy consumption, operation on CCG or directly on AC mains, for vertical applications.



UP TO
-63 %¹
ENERGY

UP TO
-14 KG²
CO₂

¹ Compared to fluorescent lamps
² Annual average based on the energy savings indicated, see p. 59 for calculation details
³ L80/B10 at 25 °C

01



02



03



03 PANEL FLEX

Office luminaire with high lumen output and Power Select, economical high efficiency and long lifetime. Additional versions with DALI-2 or for emergency installations available. Up to 5216 lm, efficacy of up to 170 lm/W, long lifetime: 100 000 h³, **VIVARES** ready: DALI-2, connector box preinstalled.



UP TO
-70 %¹
ENERGY

UP TO
-66 KG²
CO₂

04

04 PANEL TUNABLE WHITE

Panel for office and education applications that enables an individual Tunable White lighting solution in combination with compatible DALI-2 lighting controls and supports LEDVANCE human centric lighting. High system efficacy with up to 115 lm/W, low flicker light, good glare reduction ($UGR < 19$), DALI-2 certified, **VIVARES** ready: DALI and DALI HCL.



UP TO
-60 %¹
ENERGY

UP TO
-53 KG²
CO₂



WOULD YOU LIKE TO
KNOW MORE ABOUT
OUR HIGHLIGHTS?
Contact us:
contact@ledvance.com
+49 89 780673-600



SUSTAINABLE LED SOLUTIONS FOR OFFICES

The task? To upgrade an office previously illuminated by T5 HE 28 W fluorescent lamps to modern linear LED louver luminaires. The objectives? To save energy and improve the quality of light while keeping the existing housings. The results? Are there for all to see.

REAL
PROJECT,
REAL
SAVINGS

ENERGY
SAVINGS WITH
LED UP TO

43 %¹

FURTHER
SAVINGS WITH
VIVARES UP TO

30 %

CO₂ SAVINGS
WITH
VIVARES

68 %²

ON/OFF LED TUBE
SOLUTION

LED TUBE T5 HF P
SIMPLE 1:1
REPLACEMENT



LED TUBE T5 HF P



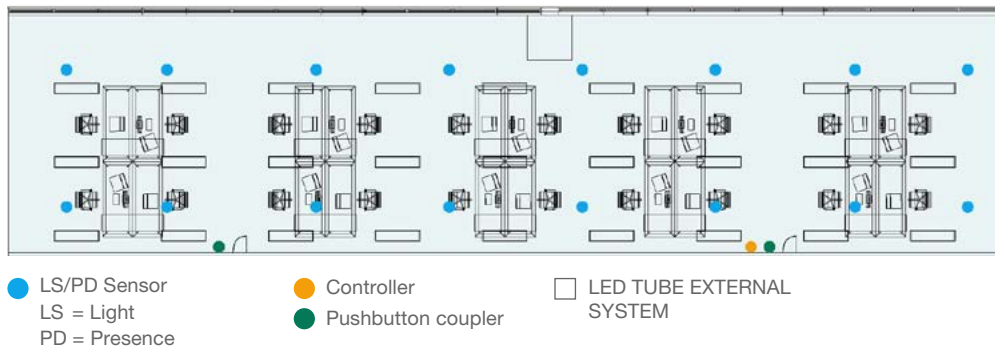
LED retrofit replacement of existing T5 lamps on compatible HF ballast in linear (louvre) luminaires installations. Splinter protection and no bending thanks to glass technology, quick and safe replacement without rewiring, high luminous flux, also suitable for operation at low temperatures.

GLOBAL PARAMETERS: Days in operation: 250 | Hours/day in operation: 12, with sensor: 8.4 | Price of kW/h [€]: 0.4* | * Potential savings of an optimized sensor-controlled LED lighting system compared to a conventional system with fluorescent tubes. Prices may vary in your country. Trade sales rebates taken into account. This is a sample calculation and does not replace a detailed calculation for your specific project. | ¹ Compared to fluorescent lamps
² Annual average based on the energy savings indicated, see p. 59 for calculation details

LMS SOLUTION WITH LED TUBE EXTERNAL SYSTEM AND VIVARES DALI LIGHT MANAGEMENT

VIVARES DALI AUTOMATED LIGHTING CONTROL AND BUDGET FRIENDLY

At LEDVANCE you get everything you need for innovative light management in one place. VIVARES DALI and our LED EXTERNAL SYSTEM help you design your lighting projects in an intelligent, efficient, energy-saving and environmentally friendly way.



**OSRAM DALI ECO
BT RTC**

Controller for daytime-dependent change of brightness and color temperature for office and education applications. Control and adjustments of light via smartphone, up to 4 timers with ON-/OFF-time and weekday configurable, up to 4 groups separately controllable.



**LED TUBE T5 EXTERNAL
FOR LED DRIVER EXTERNAL**

Dimmable, replaceable LED tube T5 for the LED TUBE EXTERNAL SYSTEM as economical alternative in linear lighting for office, education, storage areas and retail. Dimmable constant current LED tube, made of glass with splinter protection, compatible with LEDVANCE DRIVER LED TUBE DALI EXTERNAL, simple and safe replacement, very high resistance to switching loads.



**LED DRIVER LED TUBE
EXTERNAL DALI P**

Multi-watt constant current SELV driver for the LED TUBE EXTERNAL SYSTEM for advanced applications with DALI light installations. Adjustable output currents via dip switch, fit for T5 and T8 LED TUBE EXTERNAL, DALI-2 for dimming and sensor operations, suitable for installation in emergency lighting systems according to IEC 61347-2-13.



**OSRAM DALI
COUPLER PB**

DALI pushbutton coupler for installation in flush-mounted boxes. For standard pushbuttons/switches, DALI-2 certified, DALI Bus powered (no mains connection necessary), multiple couplers connectable to the same DALI line.



DALI-2 SENSOR LS/PD O CI

Sensors for light management systems with DALI-2 technology with motion detection range optimized for corridors. Wide detection range, DALI-2 certified input device (303, 304), modern reduced design, occupancy detection via Passive IR element, light sensing up to 2000 lx, IP54 with Ceiling Mounting Kit (optional), powered via DALI Bus.



SWITCH TO
LED NOW AND
SAVE ENERGY
AND CO₂!



YOUR CONTRIBUTION TO CARBON FOOTPRINT REDUCTION

Switching to LED and installing automated lighting control on top of that is a crucial step in reducing the carbon footprint of lighting.



LED TUBE T8 + T5
DOWNLIGHT UGR<19

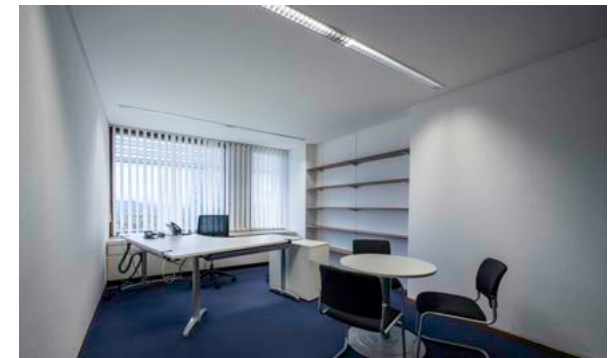
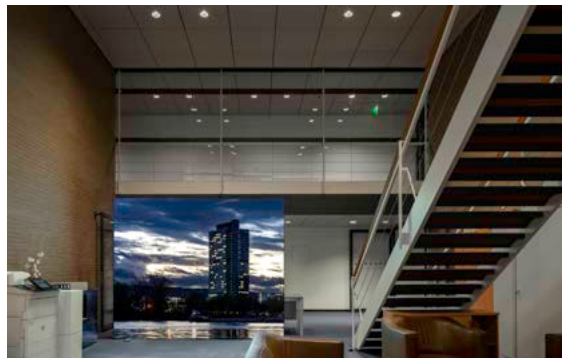
FORMER PARLIAMENT BUILDING "LANGER EUGEN", BONN, GERMANY CONTEMPORARY HISTORY IN A NEW LIGHT

THE CHALLENGE

Known as "Langer Eugen", the high-rise building is an important monument in the history of the German parliament and still characterizes the cityscape of Bonn today as the headquarters of international organizations. As part of a comprehensive modernization of the building, the lighting on the walls, in the corridors and in the offices is also to be converted to LED technology while retaining the existing optics and luminaires, saving CO₂ and significantly reducing the need for spare parts and maintenance work.

THE SOLUTION

On behalf of the Gegenbauer Group, LEDVANCE is making the lighting for walls, corridors and offices in the former Bonn "Langer Eugen" high-rise building for members of parliament future-proof and EU-compliant. By integrating LED tubes and LED downlights into the existing luminaire stock, not only the light quality and the maintenance effort – the ROI is 1.3 years (including installation costs) – are optimized. Through a CO₂ reduction – of 49 to 61 %, depending on the area – LEDVANCE also sets a strong example for sustainable lighting solutions in this prominent environment.



CLIMATE-FRIENDLY, EFFICIENT, EU-COMPLIANT – LEDVANCE LED SOLUTIONS



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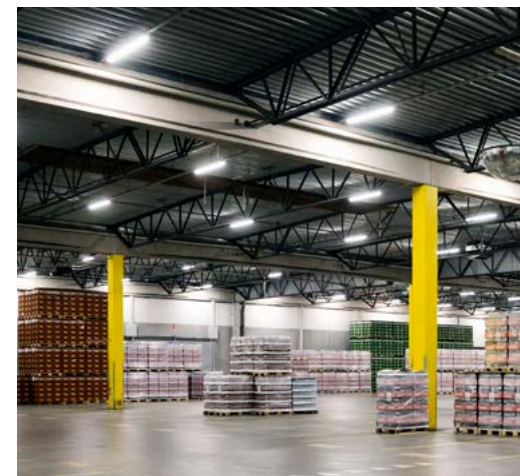


INDUSTRY

Demands are high in industry. Lighting is no exception. Lighting systems in industrial facilities have to work in damp, hot or dusty environments – and be reliable at all times, economically viable, automatic if possible, and meet relevant guidelines. And in light of high energy prices, a lighting solution's efficiency is also becoming more and more important. They sound like big challenges. Challenges you can face at any time with LEDVANCE's industrial portfolio.

A BRIGHT FUTURE NEW PROSPECTS FOR INDUSTRY

Light gets our industry going – whether in production, lab areas, logistics or warehouses. Even more so when the lighting solutions combine long-lasting robustness with great potential savings in CO₂ emissions and energy consumption and boast an excellent quality of light, creating the foundation for safe, efficient and concentrated work for the entire workforce. And when they meet all the requirements and standards for industrial applications, of course. Our innovative lighting solutions satisfy all these expectations. Because we want to use excellent light to help keep the industry going.



OUR INDUSTRY HIGHLIGHTS FOR YOU

Industry delivers top performance, even under tough conditions. Just like our highlight products. For example, high-performance LED tubes such as the T8 EM LED TUBE HIGH TEMPERATURE ULTRA OUTPUT can be used in a temperature range from -20°C to $+80^{\circ}\text{C}$. And the energy-efficient and powerful PANEL PROTECT luminaires are particularly suitable for applications that require high IP protection.

01

01 PANEL PROTECT

Square recessed panel luminaires for applications where a higher IP (IP54) protection is needed. With DALI-2 IoT technology and sensor versions on request. Highly versatile due to 4 step Power Select on the driver, up to 5040 lm, energy savings thanks to high system efficacy of up to 140 lm/W.



UP TO
-63 %¹
ENERGY

UP TO
-54 KG²
CO₂

¹Compared to fluorescent lamps

²Annual average based on the energy savings indicated, see p. 59 for calculation details

02 HEAVY DUTY LED TUBES T8 EM

1. LED TUBE T8 EM HIGH TEMPERATURE ULTRA OUTPUT for ambient temperatures of up to $+80^{\circ}\text{C}$.
2. LED TUBE T8 EM HIGHBAY ULTRA OUTPUT with a beam angle $< 100^{\circ}$ and significantly higher lux level than standard LED tubes.
3. LED TUBE T8 EM CHIP CONTROL with special sleeve which filters light below 500 nm for demanding applications like semiconductor production.

02



03 TRUSYS FLEX

Versatile linear trunking system with fixed energy rail and flexible installation of linear light source with optional blind cover and spots, tubes or sensor inserts. For medium heights in industry halls, high rack warehouses, garages. Directed light distribution for great heights, energy saving and cost-effective, various lumen packages and wide range of beam angles, multiple driver versions ON/OFF, DALI-2, emergency.

DALI
VERSIONS

UP TO
-68 %¹
ENERGY

UP TO
-131 KG²
CO₂

03



04

04 DAMP PROOF HOUSING DALI

Robust housing for dimmable T8 LED tubes with already installed dimmable EXTERNAL SYSTEM driver for parking garages, warehouses and production areas. DALI-2, IP65, IK08, easy and tool-less installation, suitable for LED TUBE T8 EXTERNAL, versions for emergency lighting available.

DALI-2

IP65

IK08

WOULD YOU LIKE TO
KNOW MORE ABOUT
OUR HIGHLIGHTS?
Contact us:
contact@ledvance.com
+49 89 780673-600





**REAL
PROJECT,
REAL
SAVINGS**

ENERGY
SAVINGS WITH
LED UP TO
62 %¹

FURTHER
SAVINGS WITH
VIVARES UP TO
40 %

CO₂ SAVINGS
WITH
VIVARES
75 %²



YOUR CONTRIBUTION TO CARBON FOOTPRINT REDUCTION

Switching to LED and installing automated lighting control on top of that is a crucial step in reducing the carbon footprint of lighting.

SUSTAINABLE LED SOLUTIONS FOR WAREHOUSES

The task? To upgrade the lighting in a warehouse from linear fluorescent tubes to LED technology.

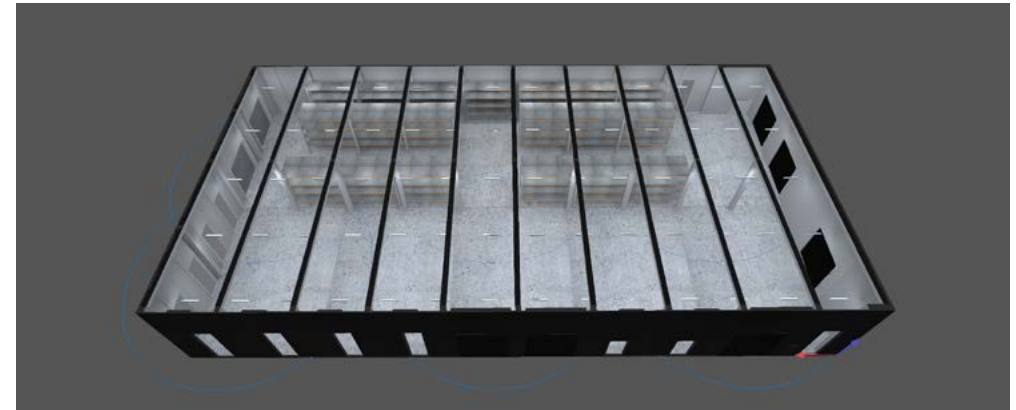
The objective? To provide a high-quality, sensor-controlled and energy-efficient lighting solution within the existing housings despite high shelves, narrow aisles and little daylight. The results? Leave a lasting impression.

ON/OFF LED TUBE SOLUTION



LED TUBE T8 EM ULTRA OUTPUT S

High performance LED tubes with extra high light output for electromagnetic control gear (CCG) and AC mains. A LED alternative for linear luminaires. Luminous flux up to 4 100 lm, efficiency up to 185 lm/W, Energy Class B, lifetime of 75 000 h (L70/B50 at 25 °C), 1 200 mm and 1 500 mm versions, shatterproof.



LMS SOLUTION LED TUBE T8 EM CONNECTED WITH EXTERNAL CONNECTED SENSOR



LED TUBE T8 EM CONNECTED P

LED tube for intelligent control via connected sensors to reduce energy consumption in parking, warehouses and production applications. Short payback period thanks to low energy consumption and maintenance costs. LED tube for EM ballast (CCG) or direct mains. Works with LEDVANCE connected sensors via Zigbee 3.0.

CONNECTED SENSOR HIGH BAY

Wireless smart PIR motion sensor for LED TUBE CONNECTED. Controls compatible products without Internet connection or smart devices. Multiple sensors can be networked. CONNECTED SENSOR HIGH BAY is ideal for installation heights of 4–14 m, for indoor use only (IP54).

LED TUBE T8 EM ENERGY EFFICIENCY CLASS A S

LED tube with maximum energy savings thanks to energy efficiency class A for linear luminaires.

No bending thanks to glass technology, efficiency up to 210 lm/W, lifetime of 100 000 h, 10-year guarantee, quick, simple and safe replacement without rewiring.



**A
G A**



**REAL
PROJECT,
REAL
SAVINGS**

**ENERGY
SAVINGS WITH
LED UP TO
80%¹**

**FURTHER
SAVINGS WITH
VIVARES UP TO
30%**

**CO₂ SAVINGS
WITH
VIVARES
96%²**

SUSTAINABLE LED SOLUTIONS FOR PRODUCTION HALLS

The task? To modernize the lighting of an industrial production hall and switch to LED technology.

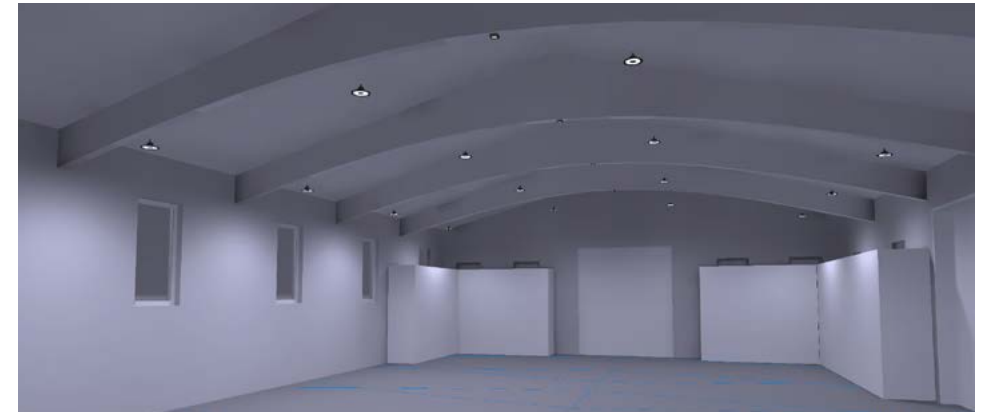
The objective? To realize a lighting concept that improves the quality of light even in demanding circumstances and saves energy at the same time. The results? Meet the highest expectations.

ON/OFF LUMINAIRE SOLUTION



HIGH BAY

Attractive performance LED high-bay luminaire for versatile high ceiling applications. High luminous efficacy, long lifetime, up to 175 lm/W, IP66, IK10, optimized weight and size due to compact design, down to UGR ≤ 22 in combination with reflector, various luminous flux and beam angles, in 4000 K or 6500 K.



LMS SOLUTION WITH HIGH BAY DALI GEN 3 LED LUMINAIRE AND VIVARES DALI AND SENSOR



HIGH BAY DALI

LED high-bay luminaires with DALI interface for versatile high ceiling applications with light management control. High compatibility thanks to DALI-2 interface for dimming and sensor operations, low flicker light thanks to special electronic control gear, high luminous efficacy up to 175 lm/W, IP66.



**DALI-2 SENSOR
PD HB CM**

Sensors for light management systems with DALI-2 technology for versatile high ceiling applications.

Detection range optimised for great heights of up to 14 meters, motion sensor for surface mounting, robust housing, IP54.



OSRAM DALI PRO 2 IOT LDWV

Controller for DALI-2 IoT light management systems with BIOLUX human centric lighting option for high quality daylight simulation. Suitable for indoor installations. DALI-2 certified, IoT ready with built-in gateway for remote data access, LAN Interconnect to connect up to 8 controllers into one network, Cloud API for direct connection of a 3rd party cloud.

GLOBAL PARAMETERS: Days in operation: 300 | Hours/day in operation: 24, with sensor: 14.4 warehouse | 16.8 production | Price of kW/h [€]: 0.4* | *Potential savings of an optimized sensor-controlled LED lighting system compared to a conventional system with traditional light sources. Prices may vary in your country. Trade sales rebates taken into account. This is a sample calculation and does not replace a detailed calculation for your specific project.

¹Compared to fluorescent lamps/conventional high bay luminaires

²Annual average based on the energy savings indicated, see p. 59 for calculation details

KING'S CROSS STATION, LONDON, GREAT BRITAIN

ENERGY SAVINGS AND LOWER RUNNING COSTS

THE CHALLENGE

The old lamps originally installed at the iconic train station King's Cross were failing frequently and changing them required specialist lift equipment which, for health and safety reasons, could only be used at certain times of the night when the concourse was empty. The station needed new luminaires that were far more reliable and energy efficient, but to keep in line with the original appearance of the building, they had to look the same as the old lamps.

THE SOLUTION

Over 160 High Bay DALI 155W, 4000K LEDs and reflectors have been installed across eight platforms at London's historic King's Cross Station. While looking the same as the old lights and providing the same amount of brightness, the new High Bay units last far longer – thanks to a five-year guaranteed lifespan – and will significantly reduce maintenance costs and provide energy savings of up to 60 % compared to conventional high-bay luminaires. The High Bay solution additionally offers the flexibility of being dimmable and switched on and off instantly.



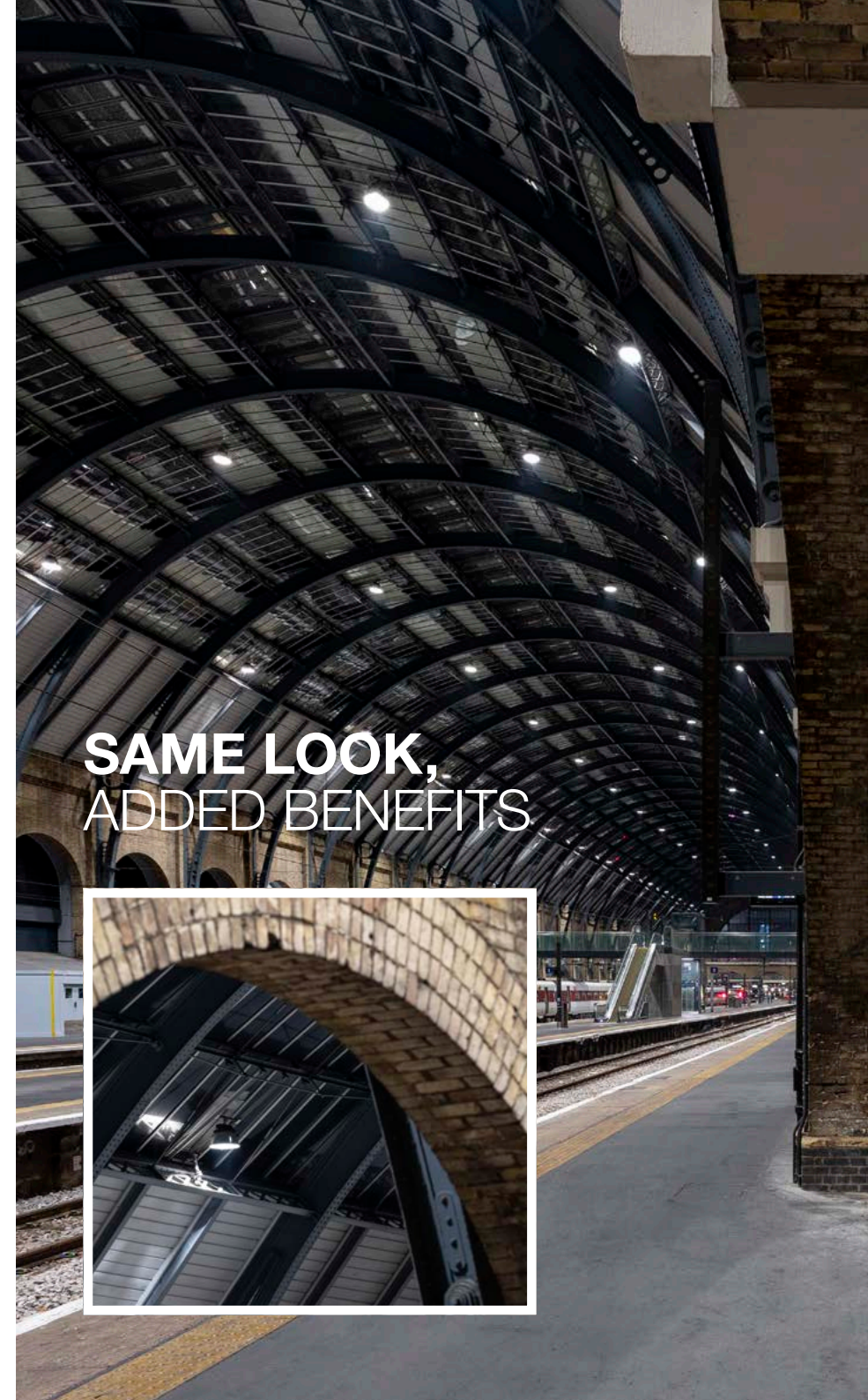
HIGH BAY DALI



HIGH BAY REFLECTOR



**SAME LOOK,
ADDED BENEFITS**



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SPORTS

Sport needs rules. And especially when it comes to optimal lighting of sports venues, there are a variety of regulations and standards that need to be observed – from minimum values for illuminance and uniformity to glare restriction for the environment. How can you tackle these challenges? No sweat. The experts from LEDVANCE have you covered.



LIGHT FOR MAXIMUM PERFORMANCE SPORTS LIGHTING WITH LEDVANCE

Whether it's football, handball or athletics – in order for a sporting event to be a complete success for athletes, referees and spectators, you also need lighting at champion level. Because the light does not only have to be camera-compatible for photos and TV broadcasts to meet different stringent requirements depending on the competition. An optimal lighting solution also needs to ensure sufficient illuminance levels, homogeneous light distribution and low-glare light to satisfy the needs of the participants and all those involved on site. LEDVANCE offers control systems such as DMX. Since many sports venues use not just white but also colored light, these allow the lighting to be perfectly controlled and turn the sporting event also into a highlight visually.

OUR SPORTS HIGHLIGHTS FOR YOU

The right conditions are one of the keys to success in sport. That's why LEDVANCE also offers a wide selection of innovative solutions for the sports sector. For example FLOODLIGHT ARENA, a powerful, durable and extremely robust stadium floodlight. Or the LOW BAY FLEX DALI luminaire, which integrates perfectly into any sports hall thanks to its attractive design and optional ball-proof cover.

01 FLOODLIGHT ARENA

High-end COB-based sports lighting with light shaping via high grade metal reflector, free of color interference. Optional stainless steel reflector shield to minimize spill light and glare. Television Lighting Consistency Index (TLCI) >90, 0% Upward Light Output Ratio (ULOR), DMX, customized configurations for demanding sports lighting, including TV applications.

SPECIFY

UP TO
-45%¹
ENERGYUP TO
-237 KG²
CO₂

¹ Compared to conventional discharge lamp

² Annual average based on the energy savings indicated, see p. 59 for calculation details

³ Compared to halogen floodlights | ⁴ Compared to traditional lamps



01

02 FLOODLIGHT MAX

High-power, extremely robust and durable floodlight for large area and sports lighting. IK08, IP66, remote driver box installation of up to 50m possible, switching of module groups for easy dimming, no Upward Light Output Ratio (ULOR 0%) when mounted at 0° tilt.

IK08

UP TO
-45%³
ENERGYUP TO
-647 KG²
CO₂

03



03 FLOODLIGHT PERFORMANCE DALI ASYM

DALI-2 based floodlight with very wide beam, asymmetric light distribution for multi purpose area lighting. IP66, DALI-2 interface for LMS integration, various light distributions, efficiency up to 140 lm/W, homogeneous luminance distribution and reduced glare, no Upward Light Output Ratio (ULOR 0%) when mounted at 0° tilt.

DALI-2

UP TO
-90%¹
ENERGYUP TO
-395 KG²
CO₂

02



04 LOW BAY FLEX DALI with optional ball-proof cover

Low-bay luminaires with attractive linear design, up to 160 lm/W with optional ball-proof cover for sports halls. High compatibility thanks to DALI-2, high luminous efficacy up to 160 lm/W, long lifetime (L80/B10): up to 100 000h, easy and quick installation, modern and robust design.

IoT
READYUP TO
-61%¹
ENERGYUP TO
-58 KG²
CO₂

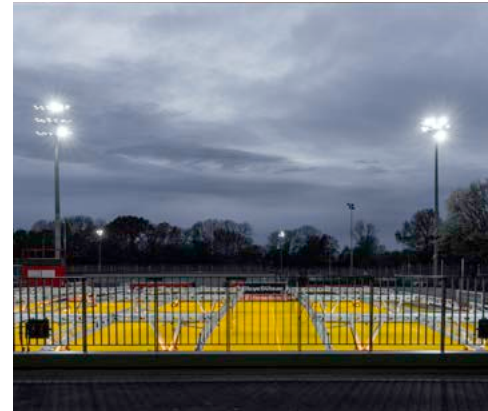
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ULRICH-HABERLAND STADIUM, LEVERKUSEN, GERMANY FIRST CLASS ILLUMINATION

SPECIFY



THE CHALLENGE

The Ulrich-Haberland Stadium is the home stadium of Bayer 04 Leverkusen's women's Bundesliga team. In order to meet UEFA's Level-D requirements for hosting European Cup matches, the existing lighting of the stadium was to be modernized with LED technology and the illuminance level increased. Additionally, in the context of the modernization, considerations had to be made regarding the surrounding residential areas and the nearby highway in terms of glare and ambient light levels.

THE SOLUTION

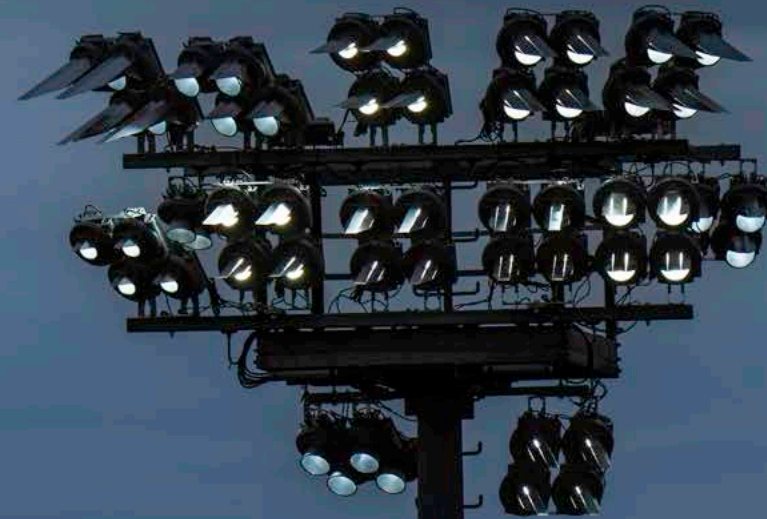
As a consulting sustainability partner in the field of lighting, LEDVANCE developed and realized a new lighting concept for the Ulrich-Haberland Stadium, where the four existing floodlight towers were equipped with modern arena floodlights. For optimal light distribution and an illuminance level of 800 lux, additional floodlights were installed, including some on a specifically constructed 30-meter-high mast. The reduced glare of the floodlights also minimizes potential lighting disturbance on the adjacent highway and residential area.



CUSTOMIZED LIGHTING WITH SPECIFY

Every project is unique. In this regard, LEDVANCE develops solutions specifically tailored to customer needs based on the CCE principle (Configuration, Customization, Engineering) – from connection type and light output to light management functions.

INDIVIDUAL, COMPLIANT, IN TOP FORM – SPORTS FACILITY LIGHTING WITH LEDVANCE



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URBAN OUTDOOR

It can get a bit uncomfortable outdoors. For the lights too. That's why outdoor light sources don't just have to deliver good efficiency, a high luminous efficacy and beam characteristics tailored to the application. They should also produce high output regardless of factors such as dirt, water or large differences in temperature – reliably and ideally without any special maintenance. How do you get it spot on? With products from LEDVANCE.



POINTING THE WAY IN ANY ENVIRONMENT – SUSTAINABLE IMPETUS FOR OUTDOOR LIGHTING

Whether in streets, squares, parks or underground garages – modern outdoor lighting is as varied as the environments it is used in. LEDVANCE helps you plan and implement your projects by offering you competent advice and a comprehensive range of robust, energy-efficient and durable LED lamps and luminaires for outdoor use. For example our STREETLIGHT FLEX portfolio, which combines optimal light quality and distribution with quick and convenient installation. That's just one of many examples of how LEDVANCE provides outdoor lighting solutions that point the way.

OUR OUTDOOR HIGHLIGHTS FOR YOU

Outdoor lighting has to offer tailor-made solutions for a variety of conditions – just like the highlights from our current urban outdoor portfolio. The models in the **STREETLIGHT FLEX** series are suitable for many different applications and boast modern design, a long life and extremely high efficiency. And the robust and highly efficient **BULKHEAD** luminaires provide an excellent alternative for sensor-controlled lighting of entrance areas, outdoor stairs and corridors.

01 STREETLIGHT FLEX

Luminaire in durable design and highest quality components for long lasting performance for area lighting and M-, C- and P-class roads acc. to EN 13201. IP66, IK08, SK2, very long lifetime (L90/B10): up to 100 000 h, spigot for 42, 48–60 and 76 mm poles available, tool-free housing opening and pushbutton terminal, no Upward Light Output Ratio (ULOR 0 %) when mounted at 0° tilt.



02 FLOODLIGHT 100

Highly efficient floodlight with long lifetime, Power Select and D-Mark certificate for general applications. Bright, robust (IK08) and durable, IP65, uniform light due to frosted glass diffuser, efficiency up to 150 lm/W, ULOR 0 % when mounted at 0° tilt.

03 POSTTOP

Decorative, elegant mast luminaire for efficient lighting of streets, paths, squares and parks. With easy maintenance via tool-free opening/closing system and quick-change function. Power Select in 5 steps, two light distributions for paths (asym.) and squares (sym.), IP66, die-cast aluminum housing.



UP TO
–40 %¹
ENERGY

UP TO
–23 KG²
CO₂

04 BULKHEAD

Robust and highly efficient outdoor luminaire with changeable light source and driver for corridors, stairways, entrance areas. IK10, IP65, very high efficiency 120 lm/W, protection class II, CCT (3 000/4 000 K), 4-step Power Select, sensor, DALI and EM versions available, width 250 or 300 mm, white or black, trim included.

IK 10

UP TO
–65 %¹
ENERGY

UP TO
–24 KG²
CO₂

IK 08

UP TO
–74 %¹
ENERGY

UP TO
–145 KG²
CO₂



UP TO
–90 %³
ENERGY

UP TO
–633 KG²
CO₂

¹Compared to HQL lamps

²Annual average based on the energy savings indicated, see p. 59 for calculation details

³Compared to halogen floodlights

⁴Compared to compact fluorescent lamps



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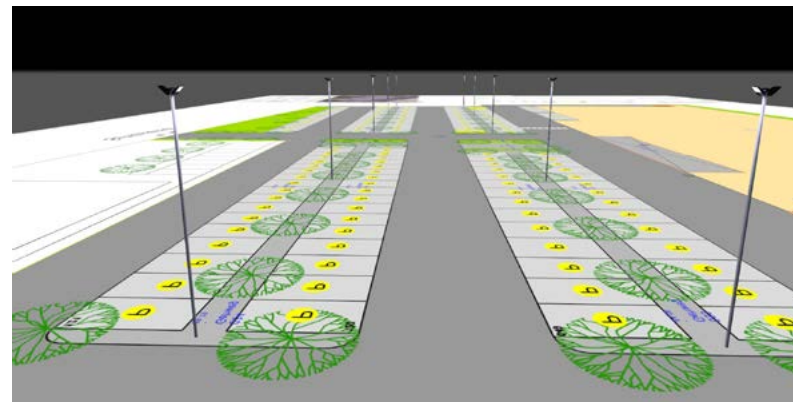


SUSTAINABLE LED SOLUTIONS FOR URBAN OUTDOOR PARKING



High-performance lighting ensures greater safety in public and private spaces outdoors – as well as in streets, car parks and multi-story car parks.

In combination with innovative LED technology it also provides significant savings in energy consumption and CO₂ emissions and is an important driving force for greater sustainability.



LED LUMINAIRES FOR OUTDOOR PARKING AREAS

FLOODLIGHT AREA ASYM



Highly versatile, asymmetric and robust floodlight with Power Select. For various outdoor applications and special tasks thanks to D-Mark certificate. Energy savings thanks to system efficacy of up to 130 lm/W, increased sea salt resistance with up to 480h, IP65, IK07 or IK08 (>6000 lm), lifetime of 75 000 h (L80/B10), 1 m cable for perfect and easy connection.



UP TO
-90%¹
ENERGY

¹ Compared to halogen lamp floodlights
² Compared to traditional HQL. With LMS via Zhaga interface additional 30 % savings possible.
³ Compared to traditional NAV lamps

STREETLIGHT FLEX WITH ZHAGA INTERFACE



Modular lighting with ZHAGA interface in durable design and highest quality components for long lasting performance for future proof, SMART CITY area lighting and M-, C- and P-class roads acc. to EN 13201. IP66, IK08, SK2, very long lifetime (L90/B10): up to 100 000 h, spigot for 42, 48–60 and 76 mm poles available, tool-free housing opening and pushbutton terminal, no Upward Light Output Ratio (ULOR 0 %) when mounted at 0° tilt.

IK08

IP66

UP TO
-74%²
ENERGY

NAV LED FILAMENT AMBER



Street and outdoor lighting with wildlife protection thanks to very low percentage of blue light. Minimizes circadian disruption, improves the residents' quality of life and reduces light pollution. Less than 1.5 % of blue light (<500 nm), very warm light color of 1800 K similar to traditional sodium vapor lamps, suitable for operation with conventional control gear (CCG) or 230 V AC mains, power factor: 0.9, IP65, surge protection: up to 2 kV (L–N).



IP65

UP TO
-70%³
ENERGY

SUSTAINABLE LED SOLUTIONS URBAN BIKE PARKING

Cycling is booming – not least because it is so sustainable. But many bicycles also need many parking spaces.

LEDVANCE offers innovative lighting solutions for these, which, combined with motion or daylight sensors or DALI systems, make bicycle parking even more sustainable.



LED LUMINAIRES FOR OUTDOOR PARKING AREAS



DAMP PROOF ON/OFF

Damp proof in classic shape for car parks and underpasses. High luminous efficacy: up to 135 lm/W, beam angle: 110°, low flicker ≤ 10 %, IP65, IK08, energy savings of up to 60 % (compared to luminaires that use fluorescent lamps), evenly distributed light, easy installation, no tools required for connection.

IP65

**UP TO
-63 %¹
ENERGY**

¹Compared to fluorescent lamps
²Compared to fluorescent lamps incl. sensor/LMS

DAMP PROOF SENSOR

In addition to the ON/OFF version, the DAMP PROOF SENSOR has a high frequency sensor for daylight and motion detection. Installation of multiple sensor switched luminaires possible due to leader-follower and leader-leader functionality. With multiple adjustments of sensor range, daylight detection and hold time.

SENSOR

**UP TO
-80 %²
ENERGY**

DAMP PROOF DALI

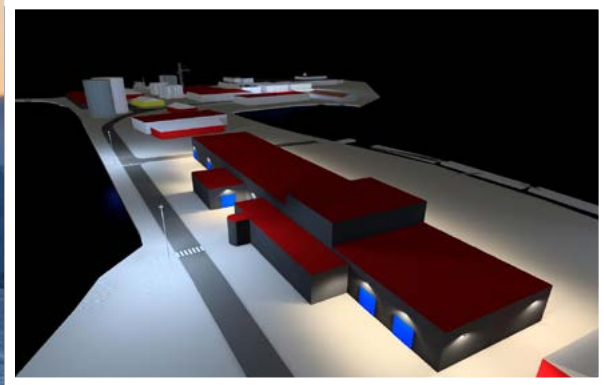
The dimmable and highly compatible DALI-2 interface makes it possible to control the light as required, which saves additional energy and reduces CO₂. Premium driver with up to 100 000 h lifetime and suitable for emergency escape lighting systems acc. to EN 50172.

DALI-2

**UP TO
-80 %²
ENERGY**

NORSEA POLARBASE, NORWAY

TOUGH LUMINAIRES FOR ROUGH ARCTIC WEATHER





DURABLE AND HIGH PERFORMING – SPECIAL LIGHTING FOR VERY SPECIAL CONDITIONS



THE CHALLENGE

NorSea Polarbase in the Barents Sea had up till recently only 1000 W discharge lamps in their light masts and had therefore started replacing them with LED products. However, there were quite a few problems regarding long response/complaint times as the luminaires were not working as they should have. During the Eliaden exhibition in Oslo 2022, representatives from NorSea Polarbase were able to take a closer look at the various luminaires of LEDVANCE.

THE SOLUTION

LEDVANCE proposed a solution combining FLOODLIGHT PERFORMANCE, FLOODLIGHT MAX and ECO CLASS HIGH PERFORMANCE luminaires that would suit the special conditions at the Polarbase and which also was a more affordable alternative. In addition, the luminaires were immediately available. The advantages of the LEDVANCE luminaires were price, delivery time as well as the friendly and competent LEDVANCE service. The new floodlights have been installed, are working properly and also use much less electricity, last far longer and provide a constant luminous flux.



ECO HP FLOODLIGHT



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SHOP

Shops need lighting concepts that are tailored to their needs so their offerings can be showcased to greatest effect. Modern lighting design that brings out the aesthetics of the displayed merchandise to perfection is equally fundamental. But good shop lighting doesn't just need to be visually convincing, but also economically – through quick payback of costs, easy installation, low operating costs and low maintenance. Are you looking for such a solution? We're here to help.



GOOD LIGHT, GOOD BUSINESS – SHOP LIGHTING WITH LEDVANCE

A successful shop is also a question of light. Only the right lighting can place products in the spotlight, generate higher sales and create special shopping experiences.

But innovative shop lighting can do much more today – for example provide significant savings in energy and CO₂ consumption, making an important contribution to cost reductions and environmental protection.

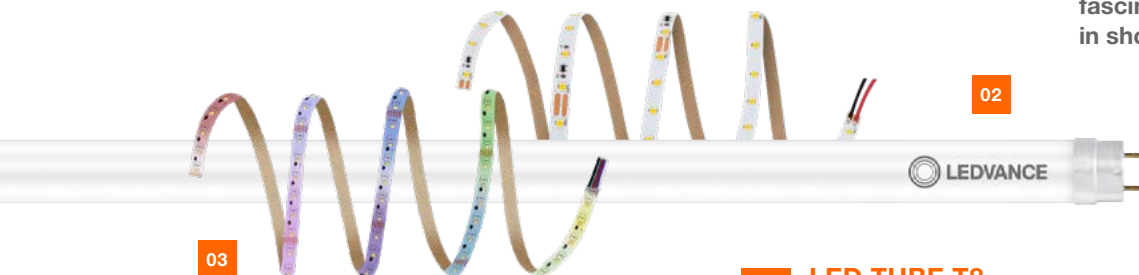
With this in mind, LEDVANCE offers tailor-made lighting solutions for a wide range of shop types and areas – from large shopping centers to small boutiques, from illuminating showrooms to lighting facades. Because a successful shop is also a question of light.

OUR SHOP HIGHLIGHTS FOR YOU

Only the right light turns shopping into an experience. And the LEDVANCE shop portfolio guarantees that. The versatile strip lighting system TRUSYS FLEX can replace conventional compact fluorescent lamps one-to-one and can be installed quite easily in supermarkets and department stores, for example. And with the LED Strip System, LEDVANCE offers a fascinatingly flexible solution that can be integrated into many different lighting scenarios in shops – as general, cove or accent lighting.



01



02

03

01 TRUSYS FLEX

Versatile linear trunking system with fixed energy rail and flexible installation of linear light source with optional blind cover, spots, tubes or sensor inserts. For hardware stores, discounters and supermarkets. Directed light distribution for great heights, energy saving and cost-effective, various lumen packages and wide range of beam angles, multiple driver versions ON/OFF, DALI-2, emergency.

DALI
VERSIONSUP TO
-68 %¹
ENERGYUP TO
-93 KG²
CO₂

02 LED TUBE T8 EM FOOD

T8 LED tube for food to look fresh and appetizing without unduly “beautifying” it. Specially tailored spectral distribution, comparable to T8 FL NATURA 76. Tube with shatter protection. LED alternative for T8 fluorescent lamps in CCG luminaires or on AC mains, simple replacement without rewiring, special PET coating, no bending thanks to glass tube, also suitable for operation at low temperatures.

PERFORMANCE
CLASSUP TO
-74 %¹
ENERGYUP TO
-20 KG²
CO₂

03 LED STRIPS FOR PROFESSIONAL APPLICATIONS

Used as general, cove or accent lighting, the LEDVANCE LED Strip System is a fascinatingly flexible solution that fits into many different lighting scenarios. The Tunable White LED Strip can be combined with VIVARES HCL. Large range of white light or colored light – RGBW/RGB – LED Strips, light colors from 2700 K to 6500 K, lumen outputs from 500–2000 lm/m, fitting LED driver and accessories available.



¹ Compared to traditional/fluorescent lamps
² Annual average based on the energy savings indicated, see p. 59 for calculation details
³ Compared to halogen lamp spotlights

04

04 SPOT ADJUST



Adjustable and dimmable spotlight with Power Select for recessed ceilings. 4 W, 6 W, 8 W via dip switches on the driver, Scale design, die-cast aluminum housing, toolless installation, in white, black and silver.

UP TO
-90 %³
ENERGYUP TO
-63 KG²
CO₂

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BICYCLE PARKING GARAGE IJBOULEVARD, AMSTERDAM, NETHERLANDS

HIGH-END LIGHTING UNDERGROUND

THE CHALLENGE

Bicycles shape everyday life in Amsterdam. To create more parking spaces in the city, a large underground parking garage was built under the IJ Canal, capable of accommodating 4000 bicycles. The parking garage required a modern lighting concept that would seamlessly integrate with the architectural design while combining energy efficiency and state-of-the-art technology with a high level of safety and comfort for the users.

THE SOLUTION

LEDVANCE has developed and implemented LED strips that are part of an innovative light management system, providing evenly distributed and flexible controllable lighting. Considering the specific requirements on-site, the concept primarily relied on more than 260 flexible 5-meter rolls of LEDVANCE IP67 LED strips, combining an individually controllable and pleasant lighting pattern with high energy efficiency. The LED strips actively support the sustainability concept of the parking garage thanks to their high energy efficiency and long lifespan.

LED STRIP SUPERIOR
1 200 PROTECTED

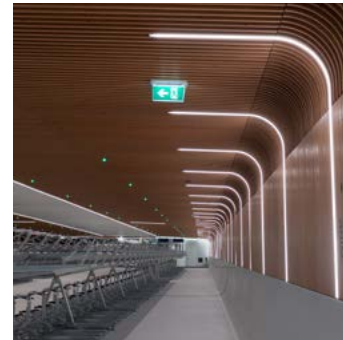


OSRAM OTI-DALI-DIM
1-4CH D

DR-PFM 250/220-240/24/P



**FLEXIBLE SYSTEM
FOR COMFORT
AND SAFETY –
THE LEDVANCE
BICYCLE GARAGE
LIGHTING**



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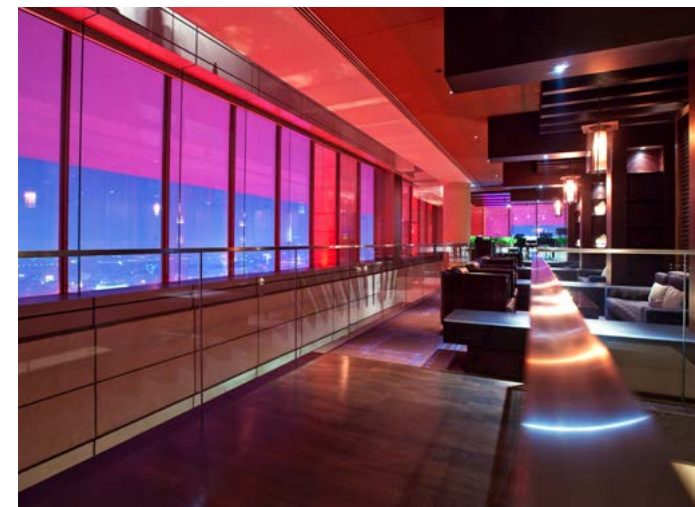
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HOSPITALITY

Lighting in restaurants and hotels is more than just a functional element. These days, modern hospitality lighting has to create a pleasant atmosphere, be integrable into light management systems if needed and, of course, take over safety and emergency functions. Above all, it needs to guarantee efficiency in terms of energy demand, CO₂ consumption and costs.



DECORATIVE, FUNCTIONAL AND EFFICIENT – HOSPITALITY SOLUTIONS FROM LEDVANCE

In hospitality, light creates the foundation for an ambience that meets the needs of guests and employees and promotes their well-being, helping to make an important contribution to the company's success.

Thanks to many years of experience in lighting hotels and restaurants, LEDVANCE offers a large portfolio of LED solutions and customized planning concepts, making it your ideal partner for bathing your rooms in inviting light using atmospheric spatial design and intelligent control options. And for achieving enormous savings in energy consumption and CO₂ emissions at the same time. Because at LEDVANCE the perfect lighting solution for your hospitality project is always included.

OUR HOSPITALITY HIGHLIGHTS FOR YOU

Light is a success factor in hospitality – and you can always count on the LEDVANCE portfolio. The flexible LED STRIP PERFORMANCE COB strips ensure excellent homogeneous light with no visible light points. And the luminaires in the SURFACE FLAT series can be integrated into the VIVARES light management system and can be used to directly replace standard ceiling luminaires with incandescent lamps or compact fluorescent lamps, making them an energy-efficient and sustainable LED alternative from the EVERLOOP program for lighting corridors, stairwells and foyers.

01 SURFACE FLAT

Highly versatile surface and wall mount luminaire with selectable CCT, Power Select and efficacy of up to 130 lm/W. Following the EVERLOOP concept with replaceable components CCT (3000 K/4000 K), 2 step Power Select, lumen levels up to 3500 lm, round or square shapes in two sizes 330/500 mm, versions with DALI-2 or enhanced Leader/Follower sensor available, for indoor applications.



UP TO
-42 %¹
ENERGY

UP TO
-17 KG²
CO₂

02 SPOT DARKLIGHT

Dimmable, recessed mounted spot-light with improved anti-glare light-comfort UGR < 19, fixed. CRI 90, 4W, 6W, 8W via dip switches on the driver, Scale design, die-cast aluminum housing, toolless installation. Fire rated spot versions available.



UP TO
-90 %³
ENERGY

UP TO
-63 KG²
CO₂



02

¹ Compared to a compact fluorescent lamp

² Annual average based on the energy savings indicated, see p. 59 for calculation details

³ Compared to halogen lamp spotlights | ⁴ Compared to traditional NAV or HCL lamps



01



04

03 BOLLARD

Bollard luminaires for marking and guidance. They pave the way for pedestrians and enhance the surroundings. Durable design and highest quality components for long lasting performance. IP65, die-cast aluminum housing.

IP65

UP TO
-40 %⁴
ENERGY

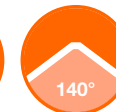
UP TO
-15 KG²
CO₂



03

04 LED STRIP PERFORMANCE COB

Excellent homogenous light, without visible light points thanks to COB technology. This makes them ideal for modern, exclusive lighting design, especially in the hospitality and retail sectors. CRI > 90, dimmable, 1000 lm/m, beam angle 140°, large range of color temperatures, smallest cuttable unit: 62.5 mm, great design freedom and flexibility due to a large range of accessories.



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DESIGNING LIGHT EFFICIENTLY AND FLEXIBLY

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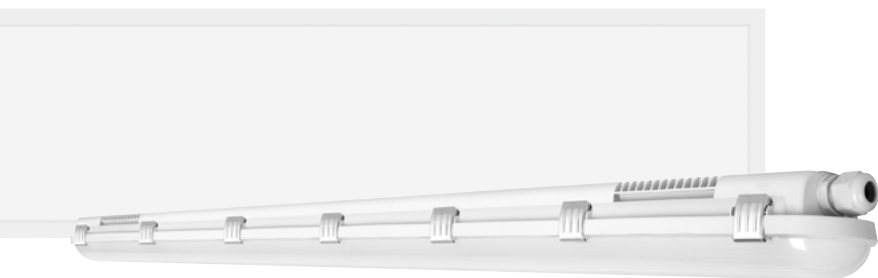
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PANEL CMFT 1200 P 33W 830 DALI



DAMP PROOF 1500 46W 830 IP65 GY



EDUARDO TORROJA INSTITUTE OF CONSTRUCTION SCIENCES, MADRID, SPAIN

TRADITION AND INNOVATION

THE CHALLENGE

The Eduardo Torroja Institute of Construction Sciences is dedicated to scientific research and technological development in the field of construction and its materials. Located in a 1934 building in Madrid, the institute sought a renovation of its original lighting to adapt to modern times. The goal was to equip the historic luminaires with efficient LED technology and integrate them into the building's control system while preserving the original design.

THE SOLUTION

From the impressive facade and to the entrance hall to the office space – similar to a hotel, the different rooms of the Eduardo Torroja Institute also require a wide range of lighting solutions tailored precisely to the respective application. Accordingly, LEDVANCE developed a lighting concept that included among others more than 600 PANEL PFM DALI luminaires and more than 200 DAMP PROOF luminaires. Not only was the original design preserved in the selection of luminaires and lamps, the lighting now complies with current regulations and is much more energy-efficient.

RESIDENTIAL

Light gives our lives an abundance of color – especially in our own home. That's where lighting solutions have to be as varied as the rooms we live in. Modern residential lighting in kitchens, living rooms, bathrooms, children's rooms or studies has to meet different requirements and find the right balance between functionality, flexibility and emotion in every environment. And always be as efficient and sustainable as possible in terms of energy costs and environmental protection. How do you add the right color to every room? We're here to inspire you.



FUNCTION MEETS EMOTION EXPERIENCE WORLDS OF LIGHT IN A NEW WAY

Hardly any other space allows light to shine in as many ways as our own four walls. Immerse the dining room in tastefully relaxing light? Create radiant moments in the children's room from a dim night light to a bright ceiling light? Boost concentration and comfort in the home office with innovative LED concepts? Always create the right mood in the bathroom with lighting designed for different situations? Or perfectly illuminate laundry rooms, basements and garages with functional LED luminaires and lamps? Light can do all that – if you bring out its full potential. That's why LEDVANCE combines high-quality lighting technology with long lifetimes and excellent energy efficiency in its comprehensive residential range, allowing you to experience new worlds of light at home in a truly sustainable way.

OUR RESIDENTIAL HIGHLIGHTS FOR YOU

The ideal light whatever the situation. LEDVANCE offers tailor-made LED solutions to ensure that every corner of your home is illuminated in line with your wishes, creating a perfect synergy of emotion and function. Our current highlight products including decorative LED solutions such as the MAGNETIC BULBS or the highly efficient ENERGY CLASS A LAMPS set high standards in terms of design and sustainability.

01



01 DECOR FILAMENT TABLE

The luminaire turns heads with its floating filament design and can be used in various interior spaces thanks to its portability. Using touch technology, it's easy to dim by 25 %, 50 % or 100 %. The built-in lithium battery is rechargeable via USB cable. The carry strap (only for floor versions) makes transporting the light particularly easy.



02 ENERGY CLASS A LAMPS

New additions: The twelve different types (40 W to 100 W replacements) in Energy Efficiency Class A enable average power savings of up to 60 % compared to standard LED lamps. And they last up to 50 years! The best response to the sharp rise in electricity prices and one of our many solutions for sustainable energy saving.



02



04



03 MAGNETIC BULBS

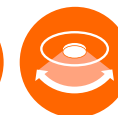
Lamps with innovative LED filament magnet technology without filament holders, perfect for decorative installations in homes and in general lighting. The warm white light effect and good quality of light provide a cozy atmosphere. The magnetic filament doesn't need any warm-up time and has a lifetime of up to 15 000 hours.

03



04 DECOR FILAMENT DOWNLIGHT

Conceived in a minimalist floating filament design, the downlight features a light ring and spot that can be controlled independently from each other. The housing is made of silver aluminum. The energy-efficient LED downlight with IP20 protection offers a life of up to 25 000 hours and very quick and easy installation. Suitable for living and dining rooms, studies or for decorative illumination of hallways.



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+49 89 780673-600



LIGHT UP YOUR EXPERTISE, ANYTIME, ANYWHERE!

WHAT SETS US APART

At LEDVANCE, we leverage scientific expertise and your invaluable feedback to create trainings that work for you. Here's what makes us unique:

- **Comprehensive Content:** From in-depth product training covering lamps, luminaires, LMS and PV products, to enlightening lessons on the fundamentals of light and sustainability, we've got it all under one digital roof.
- **Versatile Learning:** We understand that everyone learns differently. That's why we serve up bite-sized content in various formats: engaging videos, enlightening webinars, interactive eLearning modules, and informative documents.

LET'S WIN TOGETHER!

Join us at the LEDVANCE Training Center and take your learning to new heights! Whether you're a lighting designer, electrical installer, wholesaler or a student, there's something here for you.

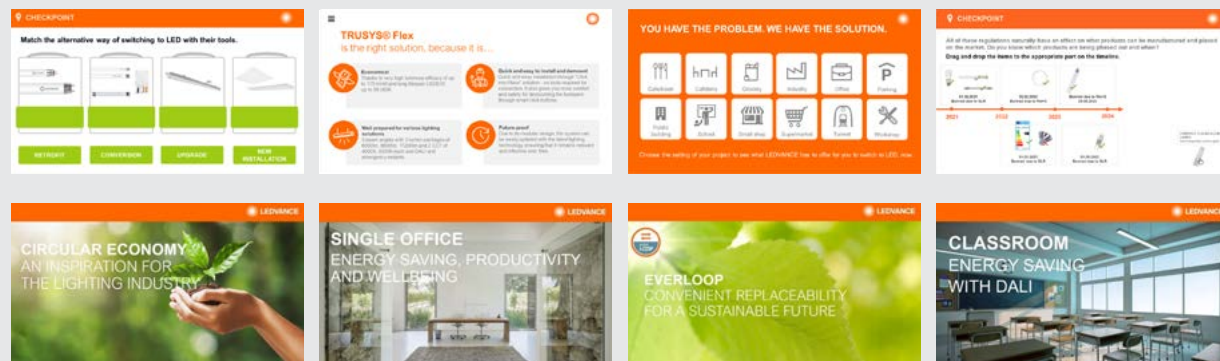
Ready to shine a light on your knowledge? Click the link below to begin your illuminating journey!

LEDVANCE Training Center:
training.ledvance.com



Empower yourself with knowledge, and let's harness the power of light together at the LEDVANCE Training Center!

LEDVANCE TRAINING CENTER



LEDVANCE TRAINING CENTER: ILLUMINATE YOUR LEARNING JOURNEY

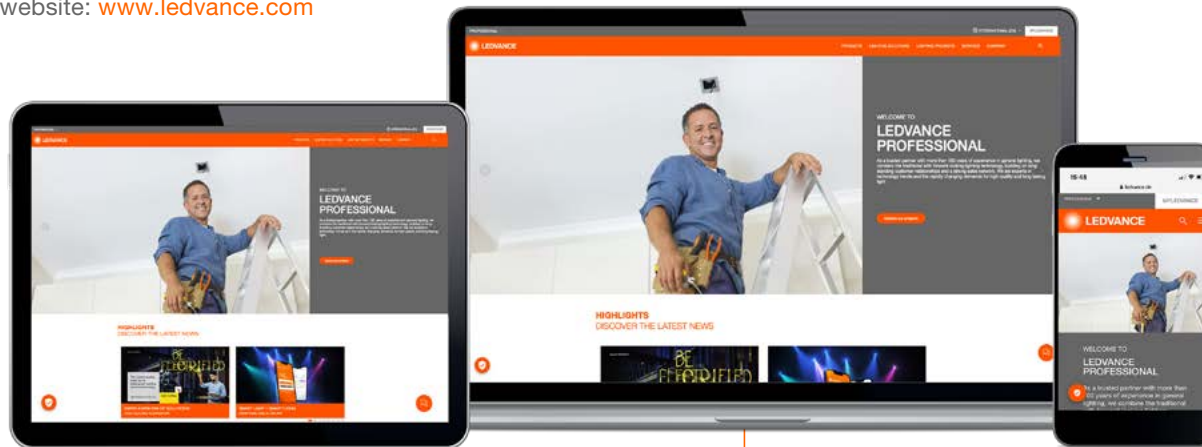
Are you ready to embark on a journey of knowledge and illumination? Look no further than the LEDVANCE Training Center – your destination for learning and development in the world of lighting!



ALWAYS UP TO DATE

OUR INFORMATION SERVICES FOR YOU

LEDVANCE is delighted to provide you with further information on our products and services – either at PoS in wholesalers, from our LEDVANCE sales staff or through our Customer Service Center (email: contact@ledvance.com). And of course all the information can also be found on our website: www.ledvance.com



BEST REFERENCES

A selection of some top lighting projects can be found at: ledvance.com/projects



SERVICES AND TOOLS

We have compiled our service offerings for you at ledvance.com/services



DOWNLOAD CENTER

Catalogs, brochures and much more are available in our Download Center ledvance.com/download



PERFECTLY CONFIGURED

Configuring lighting systems with flexible LED strips: ledvance.com/led-strip-configurator



LAMP FINDER

Find an alternative LED lamp solution for your traditional lamp ledvance.com/lampfinder

CHECK OUT OUR YOUTUBE CHANNEL

The LEDVANCE YouTube channel also features a host of tutorials, product information and other exciting content.

It's well worth taking a look: youtube.com/ledvance



HOW DO WE DETERMINE OUR REPRESENTATIVE CO₂ SAVINGS?

The energy and CO₂ savings are calculated in comparison to installations with similar lumen-per-watt outputs and conventional lamps. The annual CO₂ savings are based on a system's average annual operating time of 3500 hours and the greenhouse gas emission intensity of the power generated for 2022 (251 g of CO₂/kWh according to the European Environment Agency www.eea.europa.eu). Please note that the total annual CO₂ savings may vary due to the specific national greenhouse gas emission intensity of the power generated and the actual annual operating hours of a system.

ABOUT LEDVANCE

With subsidiaries in more than 50 countries and business activities in over 140 countries, LEDVANCE is one of the world's leading companies in the field of general lighting for professional customers and end users. Emerging from OSRAM's general lighting division, LEDVANCE's portfolio includes a wide range of LED luminaires for a variety of applications, intelligent lighting products for smart homes and smart buildings, one of the most comprehensive offerings of advanced LED lamps in the lighting industry, and traditional lamps. Beyond lighting, LEDVANCE offers vertically integrated, renewable energy solutions for the building sector. Together, the lighting division and the renewable energy division form a comprehensive ecosystem for residential, commercial, and industrial buildings.

For more information, visit www.ledvance.com.



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