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LEDVANCE is the first company to receive new VDE quality certificate for Human Centric Lighting (HCL)

For its new and advanced BIOLUX® Human Centric Lighting (HCL) system, LEDVANCE is the first company to receive an HCL quality certificate with the best possible distinction from the independent VDE Testing and Certification Institute.

For the first time, the independent VDE Testing and Certification Institute certifies that a company has qualitatively fulfilled all existing requirements, norms and standards for an HCL system. LEDVANCE receives the HCL certificate with the best possible quality award (3/3 stars) for its new and advanced BIOLUX® HCL system. The system positively supports the human biological day-night-rhythm, increases well-being and performance during the day and improves the quality of sleep at night.

(Garching/Offenbach, June 9, 2020) The VDE mark is synonymous with safety and quality in electrical devices, components and systems. The independent test engineers carry out product, quality and safety tests on more than 100,000 devices per year before the VDE Institute awards the test mark. The VDE Institute has now developed a new standardised catalogue of test-criteria to evaluate HCL systems with regard to quality, safety, performance and usability. Compliance with these criteria is confirmed by a three-stage certificate. The BIOLUX® HCL system from LEDVANCE achieved outstanding results in the tests and is the first HCL system ever to receive the new VDE HCL certificate with the best possible award of 3/3 stars. The evaluation was based on various criteria regarding light quality, correct simulation of the course of daylight, energy and cost efficiency, safety, ease of installation and commissioning, usability and compliance with national, EU and global norms and standards.

“Until now, there has been no qualitative testing of HCL systems by an independent authority”, explains LEDVANCE Head of R&D and Strategic Portfolio Management Dr. Ulrich Weiss. “We therefore very much welcome VDE’s initiative to establish standardised HCL

test-criteria based on norms and standards and incorporating measurement techniques. This is unique worldwide. We are very proud that our BIOLUX® HCL system has received the best possible quality award from VDE and fulfils all requirements to positively support the human biological rhythm, showing activity and performance during the day, supporting good sleep at night and increase well-being.”

“The collaboration with the technical experts from LEDVANCE has been excellent”, says Dragana Zdravkovic-Stojanovic, technical expert for luminaires at VDE Institute. “Our criteria for being awarded with 3 stars were by no means easy to implement.” She mentions the outstanding quality of light, the course of day sequences adapted to the situation, and the easy installation as particularly outstanding to her. “I am looking forward very much to further joint projects”, says the VDE expert.

Five light modes with positive effects on the human biorhythm

The LEDVANCE BIOLUX® HCL system consists of wirelessly connected components. The intelligent BIOLUX® control unit ensures - as the heart of the system - that the corresponding BIOLUX® LED luminaires simulate the natural course of daylight in terms of light colour and intensity. Unique to the BIOLUX® HCL system is the possibility of manually adjusting light to different situations using five predefined light modes. While the NATURAL mode simulates the natural course of daylight, the BOOST and FOCUS modes support concentration and productivity. RELAX provides relaxing light during breaks and with CREATE brainstorming sessions are encouraged. The built-in safety mechanism has been particularly positively evaluated by the VDE Institute: The five different light modes always follow the curve of natural daylight and thus ensure that the effects on the biorhythm are positive at all times. This makes the BIOLUX® HCL system particularly suitable for offices, meeting rooms, hospitals, doctors' surgeries as well as elder care and nursing homes.

One HCL system for everyone: easy installation and commissioning in five to ten minutes

After connection to the power grid, the LEDVANCE BIOLUX® HCL system can be installed and commissioned in five to ten minutes in an uncomplicated, fast and wireless manner using a smartphone app. The system automatically determines the time of sun rise and sunset based on the geographical location and autonomously configures all settings based on the course of daylight. As the system works independently and configures itself, no complicated programming or integration into existing lighting management systems is necessary. This keeps costs low and contributes to a particularly economical use. A total of up to 20 luminaires can communicate with the intelligent control unit, which can be added to

the system simply by scanning the QR code. The complete communication of control unit and luminaires is securely encrypted and no user data is transferred. The user can set the five lighting modes in no time at all via the control unit.

For more information about the BIOLUX® HCL system, please visit [YouTube](#) and [our website](#).

More awards for BIOLUX® HCL system

In addition to the VDE certification, LEDVANCE was recently awarded the German Innovation Award in the category “Excellence in Business to Business – Lighting Solutions” for its BIOLUX® HCL system. For the outstanding design quality of the BIOLUX® HCL control unit, LEDVANCE previously also received the Red Dot Award 2020 in the category “Product Design”.

VDE Prüf- und Zertifizierungsinstitut



LEDVANCE is the first company to receive the new VDE quality certificate for Human Centric Lighting (HCL).

Image: VDE

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Image: LEDVANCE

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Image: LEDVANCE

ABOUT LEDVANCE

With subsidiaries in more than 50 countries and business activities in over 140 countries, LEDVANCE is one of the world's leading general lighting companies for professional customers and end-consumers. Originating 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. Based on an agreement with OSRAM, LEDVANCE will continue to use the OSRAM brand name for many of its products (SYLVANIA in the USA and Canada). Further information is available at www.ledvance.de.

About the VDE Institute:

100 years of the VDE mark – In 2020, the VDE Institute—a subsidiary of the VDE Group—celebrates its 100th birthday. The VDE Institute is a worldwide partner for industry customers, business, government authorities, the electrical trade and consumers. The VDE mark is synonymous with safety and quality in electrical devices, components and systems. More than 100,000 devices per year are subjected to product, quality and safety tests by the VDE Institute's independent testing engineers before they receive the VDE mark. Around the globe, VDE experts monitor more than 7,000 production facilities. Cooperation agreements with more than 50 countries ensure that the tests performed by the VDE Institute are internationally recognized. 200,000 types of products with millions of model variants bear the VDE mark worldwide. The VDE Testing and Certification Institute GmbH, a non-profit organization, employs more than 500 people in Offenbach am Main. More information is available at www.vde.com/institut.