



FLEXIBLE LIGHT FOR FLEXIBLE WORKING

The new corporate headquarters LOOP LEDVANCE GmbH, Garching

KEY FACTS

HUMAN AT THE CENTER

The office spaces have been equipped with biologically effective, state-of-the-art LED lights to support the well-being of employees. Through the intelligent light management system VIVARES, the light colors and intensities change in precise alignment with the natural daylight cycle.

UTILIZING ENERGY EFFICIENTLY

Lighting management systems (LMS) like VIVARES reduce energy consumption with an intelligent, sensor-based control using DALI or ZIGBEE technology, thereby reducing costs and CO₂ emissions.

VARIABLE WITH A SYSTEM

Whether open-plan offices, individual offices, or meeting rooms: VIVARES offers individually tailored light management solutions, providing ideal conditions for efficient and healthy work in flexible office structures.

EXCELLENT IN SHAPE

Decorative smart LED luminaires in elegant designs such as the 1906 Globe product family ensure a pleasant ambiance, particularly in communal areas, enhancing the comfort factor.

BIOLUX HCL TW PANEL ZIGBEE



VIVARES ZIGBEE CONTROL



VIVARES ZIGBEE L/O SENSOR



INDIVIDUAL, INTELLIGENT, SUSTAINABLE – LED OFFICE LIGHTING

LEDVANCE designs an LMS-based lighting solution for the company headquarters in Garching. This solution combines the well-being of employees with the highest energy efficiency and sustainability through an intelligent, IoT-enabled control.

THE CHALLENGE

The lighting specialist LEDVANCE is expanding and redesigning the office spaces at the corporate headquarters in Garching. The aim is to create a flexible office structure according to the most modern standards. Considering the technical and spatial needs of the employees, an innovative lighting concept should also be developed. This concept aims to support work in flexible office environments, meet the highest design standards, promote the well-being and performance of the employees, and contribute to LEDVANCE's sustainability strategy by optimally and efficiently using energy.

THE SOLUTION

LEDVANCE planned, developed, and implemented lighting solutions for the new office spaces of the LOOP corporate headquarters. Based on the VIVARES light management system, more than 800 IoT-enabled LED luminaires were used, particularly BIOLUX HCL Tunable White luminaires and smart 1906 Globe luminaires, along with approximately 300 sensors. In some rooms, the existing electrical wiring could be reused in

combination with the 'VIVARES ZIGBEE' system. However, in other areas, the VIVARES DALI light management system was entirely built anew via a DALI control.

THE BENEFITS

In planning the LEDVANCE VIVARES and BIOLUX light management systems, the focus was on a lighting solution that harmonizes energy efficiency with the overall well-being of the employees. This was achieved with the VIVARES HCL LMS. It accurately simulates the natural daylight cycle with highly specified LED light, which, as studies have shown, enhances concentration and prevents fatigue. Moreover, the LED luminaires used exhibit a high color rendering index, a wide spectrum of light colors, and high efficiency. Through the employed sensors and intelligent light control provided by the VIVARES or BIOLUX systems, a maximum level of efficiency in light usage and significant energy savings are also achievable – an important contribution to LEDVANCE's sustainability strategy implementation.

"The transition from fixed workstations to flexible solutions, combined with an intelligent light control tailored to individual needs, offers exciting opportunities to redefine our everyday work life."

Steffen Tegethoff
Senior Application Expert,
LEDVANCE

SUMMARY

LEDVANCE planned and implemented an equally coherent and attractive lighting concept for the entrance area, office spaces, and Work Café at the Garching corporate headquarters, LOOP. This concept was developed by utilizing intelligent light management systems such as VIVARES HCL and BIOLUX HCL in combination with state-of-the-art LED luminaires and sensors. The concept not only supports the well-being of employees but also meets the demands of flexible work situations and the highest design standards. Simultaneously, it contributes to the company's sustainability efforts through maximal effective energy utilization.



Reception area LEDVANCE GmbH



Meeting room with DALI light and sensor control



Community room with ZIGBEE light and sensor control