



# INTELLIGENT LIGHTING FOR DATACENTER

## ZIGGO, THE NETHERLANDS

### KEY FACTS

#### THE BEST SOLUTION AND SERVICE

The experts from LEDVANCE and IBBR provided dedicated service and support. This included light planning, sensor advice, and configuration of the Smart Lighting installation.

#### SMART LIGHTING FOR DATACENTER

The new LED TruSys® Flex System has reduced energy consumption by more than 80%, resulting in substantial savings on the energy bill and reducing the carbon footprint.

#### SAFE WORK ENVIRONMENT

The new installation operates only when people are present, ensuring safety during work and achieving high energy savings in this high-tech environment of a data center.

#### EASY MAINTENANCE

The extended nominal life of the TruSys® Flex System and a warranty of up to 5 years minimize the effort and costs required for servicing.

#### TRUSYS® FLEX P 35W/4000K DALI



#### TRUSYS® FLEX RAIL 8P



#### OSRAM DALI PRO 2 IOT CONTROLLER



# INTELLIGENT LIGHTING FOR HIGH-TECH DATACENTER

**LEDVANCE and IBBR have jointly developed a comprehensive Trunking System as an LED solution for a datacenter, integrating modern DALI-2 Light management along with sensors for presence detection.**

## THE CHALLENGE

The traditional lighting at the data center needed replacement with a modern LED lighting solution. This ambitious step aimed not only to improve lighting quality and reduce the carbon footprint but also, to generate significant energy bill savings.

## THE SOLUTION

In collaboration with IBBR, LEDVANCE developed and implemented a lighting concept based on the flexible and high-quality TruSys® Flex system, perfectly suited for this application. A total of 600 meters were installed, incorporating DALI-2 Lighting Units interspersed with blind covers and a specially designed TruSys® Flex Gear Plate with Sensors developed by LEDVANCE's CCE department. The entire system operates on DALI-2, utilizing two DALI-2 Pro IoT Controllers for Light management. This configuration maximizes the energy efficiency of the installation and provides installation positions for implementing decentralized escape route lighting fixtures connected to LEDVANCE 8P-energy rails (CH channel). The sensor track inserts with build-in DALI-2 Sensor LS/PD CI provide presence detection functionality.

## THE BENEFITS

The transition to LED technology for lighting delivered significant results: Energy consumption was reduced by over 80% (due to the sensors), resulting in substantial energy bill savings for the data center. Additionally, the extended nominal life of the TruSys Flex® System (100,000 h L70) and a warranty of up to 5 years will decrease future effort and costs for servicing and maintenance. The use of sensors for lighting based on presence detection in designated areas offers convenience for individuals working in the data center.

## SUMMARY

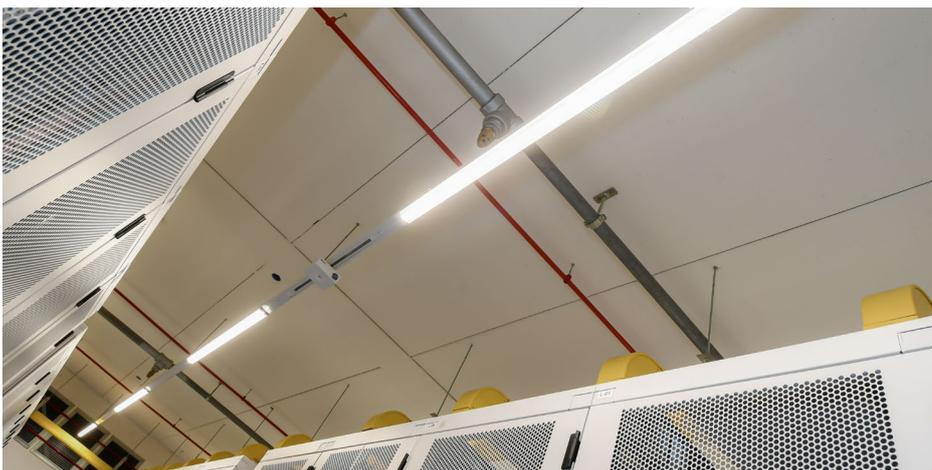
The data center lighting required a complete renovation and transformation toward sustainability and efficiency. In partnership with the installer and service company, IBBR, LEDVANCE developed and implemented an encompassing and modern Smart LED lighting solution. This solution significantly improved lighting quality, providing enhanced comfort for employees and leading to a considerable reduction in carbon footprint and energy costs.

„In the end, the customer is satisfied and so are we (IBBR) as installers. Easy to install light line system”

M. Mulder - IBBR  
Installatie Bedrijf  
Berends Radix B.V.



TruSys® Flex offers various mounting and installation options with Flex Feed-In



The light output in all areas meets the required level of 750 Lux



TruSys® Flex provides multiple options such as blind covers with integrated CCE solution