LED Lighting for the Industry - Warehouse



Challenge
The bar storage system was rebuilt and was no longer adequately lit due to the new arrangement of shelves and storage areas. The existing lighting did not take into account the illumination of the vertical storage areas.

LED Lighting Concept
The personal consultation took place on site. BuR Lighting supplied 36x 40W DALI LED Linear Trunk system luminaires in combination with DALI lighting control technology. The system luminaires were installed in 2 rows of continuous rows. The opal diffuser of the LED modules is strongly glare-free and optimally matched to the narrow beam light distribution. The energy-efficient new lighting resulted in very uniform illumination of the shelving surfaces and stored goods. The luminaire modules are prepared for 3-phase operation. In this building, the luminaires can be individually controlled via DALI for each continuous row.

BuR Lighting Lighting Design
BuR Lighting designs with DIALux evo are based on:

EN 12464-1 Norm
Illumination of Indoor Workplaces

ASR A3.4 Workplaces Guideline
Technical rules for the illumination of workplaces

Lichtqualität
- Smooth LED illumination
- Narrow beam illumination of the narrow aisles and shelving areas
- Average illuminance: E_m=521 Lux
- High uniformity of vertical illuminance on the shelving surfaces
- Pleasant light colour: 4.000 Kelvin
- Very good colour rendering: Ra>80
- High visual comfort

BuR Lighting Luminaires
- Article: LED Linear Trunk System
- Art.-No.: 4811040P12040DN
- Housing: Aluminum - superslim
- LED Driver Input Voltage: 220V-240V
- LEDs: Nichia Chips
- Wattage: 40W
- Beam Angle: 120°
- Installation: Suspension-/Ceiling-Mounting
- Intelligent Lighting Control: DALI

Savings and Benefits
- LED System Luminaires - superslim
- Electronic LED Drivers
- High-Frequency Control of LEDs
- LED Life Span: 50.000 h
- Luminous Efficacy: 110 lm/W
- High Energy Savings p.a.: 70%
- High CO_2-Reduction p.a.: 62%
- Reduction of Maintenance Costs p.a.: 75%
- Long-Lasting Operation of the Luminaires

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Technische und formale Änderungen vorbehalten
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