LED Lighting for the Industry - Tool Storage





The shelves had to be rearranged in the tool store. This led to insufficient lighting. The conventional lighting did not take into account the uniform illumination of the vertical surfaces, the storage media and their contents.

LED Lighting Concept

The personal consultation took place on site. BuR Lighting supplied 60x 40W DALI LED Linear Trunk system luminaires in combination with DALI lighting control technology. Individual luminaires were installed in 10 continuous rows. The optical cover of the LED modules is optimally matched to the narrow beam light distribution. 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

BuR Lighting Luminaires

- Article: LED Linear Trunk System Art.-No.: 4811040P06040DN
- Housing: Aluminum superslim
- LED Driver Input Voltage: 220V-240V
- LEDs: Nichia Chips
- Wattage: 40W
- Beam Angle: 60°
- Installation: Suspension-/Ceiling-Mounting
- Intelligent Lighting Control: DALI

Lighting Quality

- Smooth LED illumination
- Narrow beam illumination of the narrow aisles and shelving areas
- Average illuminance: E_m=237 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

Savings and Benefits

- LED System Luminaires superslim
- **Electronic LED Drivers**
- High-Frequency Control of LEDs
- LED Life Span: 50.000 h
- Luminous Efficacy: 130 lm/W
- High Energy Savings p.a.: 63%
- High CO₂-Reduction p.a.: 58% Reduction of Maintenance Costs p.a.: 71%
- Long-Lasting Operation of the Luminaires

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Technische Änderungen und