LED Lighting for the Industry - Pressing Plant



Challenge
In the pressing plant with wire storage next to it, cold formed parts are produced in 3-shift operation. The pressers have different tasks and visual performances on the machines. The existing illumination had become inadequate due to the use of space, the daylight incident, the positioning of the machines and the changes in visual tasks.

LED Lighting Concept
The personal advisory took place on site. In the flat hall, 1xT8 58W and 2xT5 54W classic continuous row luminaires were replaced by 42x 120W / 150W wide-beam BuR Lighting LED High Bay luminaires. The technical lighting requirements led to the installation of LED High Bay luminaires equally positioned under the ceiling. The resulting energy savings and CO_2 reduction are considerable.

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

Lighting Quality
- High quality LED illumination
- Wide beam illumination of the working plane, wire stores and presses
- Average illuminance: E_m=354 Lux
- High uniformity of illuminance: E_{min}/E_m= 0,41
- Pleasant light colour: 4.000 Kelvin
- Very good colour rendering: Ra>80
- High visual comfort

BuR Lighting Luminaires
- Article: LED High Bay ZigBee
- Art.-No.: 4111120P12040NN
- Art.-No.: 4111150P12040NN
- Housing: Aluminum Die-Cast
- LED Driver Input Voltage: 100V-240V
- LEDs: Nichia Chip
- Wattages: 120W and 150W
- Beam Angle: 120°
- Protection Rating: IP65

Savings and Benefits
- LED High Bay Luminaires IP65
- Sealed Wide Voltage LED Drivers
- Less Installation Work due to the special Cable Length
- LED Life Span: 50.000 h
- Energy Savings p.a.: 29.149 kWh
- CO_2-Reduction p.a.: 5.595 kg
- Reduction of Maintenance Costs p.a.: 80%
- Return on Investment: 2,5 Years

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Technische und formale Änderungen vorbehalten
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