



Challenge

In the pressing plant with wire storage next to it, cold formed parts are produced in 3-shift operation. The presses 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 CO₂ 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: $R_a>80$
- 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
- CO₂-Reduction p.a.: 5.595 kg
- Reduction of Maintenance Costs p.a.: 80%
- Return on Investment: 2,5 Years