



Challenge

The fixture construction for very special, production-specific fixtures and tools should be rebuilt. The machines had to be relocated. The lighting requirements were no longer met. Illuminance in the working plane was too low for the visual tasks required. The lighting costs were too high.

LED Lighting Concept

The personal consultation took place on site. The hall was illuminated by BuR Lighting with 9x deep-beam 120W ZigBee LED High Bay luminaires in the high protection class IP65 (dustproof and protected against water jets). ZigBee Control supports the permanent alignment of daylight and artificial light with radio-controlled data and signal transmission. ZigBee® is a registered trademark of the ZigBee® Alliance.

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 controllable LED illumination
- Deep-wide-beam illumination of the working plane and the machine tools
- Average illuminance: $E_m=500$ Lux
- High uniformity of illuminance:
 $E_{min}/E_m = 0,54$
- 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.: 4111 120P09040VZ
- Housing: Aluminum Die-Cast
- LED Driver Input Voltage: 100V-240V
- LEDs: Nichia Chip
- Wattage: 120W
- Beam Angle: 90°
- Protection Rating: IP65
- Intelligent Lighting Control: ZigBee

Savings and Benefits

- ZigBee LED Luminaires
- Sealed Wide Voltage LED Drivers
- Lighting Control according to Daylight
- LED Life Span: 50.000 h
- Luminous Efficacy: 130 lm/W
- High Energy- and CO₂-Savings p.a
- Lowest Maintenance Costs
- Less Installation Work due to the special Cable Length