LED Lighting for the Industry - Production



Challenge
The new production hall is designed for 3-shift operation. Due to different work tasks and visual performance in the room, special demands were placed on the new BuR Lighting LED lighting. The influence of daylight had to be considered. The light colour was set at 4,000 Kelvin.

LED Lighting Concept
The personal consultation took place on site. At a hall height of 13.5 m, 50x dimmable 200 W ZigBee LED High Bay luminaires with daylight-dependent control were used. 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 aggregates
- Average illuminance: E_m=298 Lux
- High uniformity of illuminance: E_{min}/E_m= 0,43
- 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.: 4111200P09040VZ
- Housing: Aluminum Die-Cast
- LED Driver Input Voltage: 100V-240V
- LEDs: Nichia Chip
- Wattage: 200W
- Beam Angle: 90°
- Protection Rating: IP65
- Intelligent Lighting Control: ZigBee

Savings and Benefits
- Radio controlled 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 CO_2-Savings p.a
- Lowest Maintenance Costs
- Less Installation Work due to the special Cable Length

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Technische und formale Änderungen vorbehalten
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