



### Challenge

The new hall for surface plating is designed for 3-shift operation. Due to different tasks and visual performances in the room, special demands were placed on the new BuR Lighting LED illumination. The light color was set at 4,000 Kelvin. The energy-efficient new illumination should result in an optimum illumination of the surfaces.

### LED Lighting Concept

The personal advisory took place on site. The technical lighting requirements at a hall height of 14.3 m led to the installation of 28 dimmable 200W ZigBee LED High Bay luminaires equally positioned under the ceiling and controlled according to daylight. 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 mechanical equipments
- Average illuminance:  $E_m=350$  Lux
- High uniformity of illuminance:  
 $E_{min}/E_m= 0,48$
- 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.: 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<sub>2</sub>-Savings p.a
- Lowest Maintenance Costs
- Less Installation Work due to the special Cable Length