



Challenge

The conference room was equipped with 4x18W T8 fluorescent lamp recessed luminaires. The general lighting resulted in high energy costs, frequent lamp replacement and high maintenance costs. Due to the use of conventional ballasts with low lamp supply frequency, the light was not stable and made the required visual performance difficult.

LED Lighting Concept

The personal consultation took place on site. BuR Lighting 36W LED Panel luminaires were used, which can be individually controlled via DALI. This resulted in very energy-efficient operation of the luminaires. The light colour was set at 4,000 Kelvin. The new lighting led to an increase in lighting quality.

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

- Smooth and controllable LED illumination
- Wide-beam illumination of the working plane
- Average illuminance: $E_m=530$ Lux
- High uniformity of illumination
- Pleasant light colour: 4.000 Kelvin
- Very good colour rendering: $R_a>80$
- High visual comfort

BuR Lighting Luminaires

- Article: Recessed LED Panel Luminaire
- Art.-No.: 3225036H12040DN
- Frame: Aluminum
- Height: 9mm - ultraflat
- LED Driver Input Voltage: 100V-240V
- LEDs: Epistar 4014
- Wattage: 36W
- Beam Angle: 120°
- Intelligent Lighting Control: DALI

Savings and Benefits

- LED Panels with higher protection rating
- Optical cover made of acrylic in opal
- Electronic LED Driver
- High-Frequency Control of LEDs
- LED Life Span: 50.000 h
- Luminous Efficacy: 80 lm/W
- High Energy- and CO₂-Savings p.a
- Easy lighting control: DALI
- Lowest Maintenance Costs