LED Lighting for the Industry - Parking



Challenge
Parking garages are often inadequately and dimly lit. Mostly classic fluorescent lamps with high energy consumption and constantly occurring lamp replacements are in use. Illuminance in the working plane was below the recommended guide values. Maintenance costs were negatively affected by frequent lamp changes. The lighting was inefficient.

LED Lighting Concept
The personal consultation took place on site. BuR Lighting LED Low Bay Linear Luminaires 40W in the high protection class IP65 (dustproof and water jet resistant) were used for the first time. The illuminance in the working plane was raised to E_m=200 Lux. The resulting energy savings and CO_2 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 parking spaces
- Average illuminance: E_m=203 Lux
- High uniformity of illuminance: E_{min}/E_m= 0,40
- Pleasant light colour: 4.000 Kelvin
- Very good colour rendering: Ra>80
- High visual comfort

BuR Lighting Luminaires
- Article: LED Low Bay Linear
- Art.-No.: 4325040P12040DN
- Housing: Aluminum
- LEDs: Epistar SMD2835
- Wattage: 40W
- Beam Angle: 120°
- Protection Rating: IP65
- Impact Protection Class: IK10
- Light Control: DALI

Savings and Benefits
- LED luminaires made of aluminium
- Electronic LED Drivers
- LEDs mercury and pollutant-free
- LED Nutzlebensdauer: 50.000 h
- LED Life Span: 50.000 h
- Energy Savings p.a.: 57%
- CO_2-Reduction p.a.: 55%
- Reduction of Maintenance Costs p.a.: 40%
- Return on Investment: 2,2 Jahre

BuR Lighting
Vertrieb, Projektierung, Lager
Heedfelder Str. 61-63
D-58509 Lüdenscheid

Fon: +49 2351 96 36 65
Mobil: +49 152 23897612
E-Mail: m.hoffmeister@bur.lighting
Web: www.bur.lighting

Lichtbereich der I.N.D.I.A. GmbH
Geschäftsführer: Dr. Markus Hoffmeister
HR B 4901 Amtsgericht Iserlohn
Ust.-IdNr.: DE 233933544

Technische und formale Änderungen vorbehalten
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