

## Description

Surface mounted high-power adjustable COB LED luminaire for wall and ceiling mounting. Available in a 1x LED and 2x LED variation.

The luminaire consists of two main components: a cylindrical shaped LED unit that is connected to a rectangular shaped driver housing.

The LED unit is connected to the driver housing via a copper ball-joint structure, which is 360° rotatable along the vertical axis, and +45°/-45° in the vertical plane and works with a patented constant friction hinge system.

Thanks to the wiring running internally from LED unit into the driver housing via a flexible sleeve, no visible wires after installation.

The LED unit contains the interchangeable high-gloss aluminium reflector. The aluminium reflector is held in place by means of two magnets.

The rectangular shaped driver housing contains the LED driver. The driver housing clicks on the ceiling plate by means of leaf spring. This results in no visible screws after installation.

Only for indoor use, IP20 protection class.

## Materials

- Diecasted aluminum LED unit and driver housing, finished in fine-textured scratch-resistant powder coating matt black or matt white
- Galvanised steelplate ceiling plate, 1.5mm thickness
- Leaf springs: stainless steel
- Ball-joint: copper, treated with scratch resistant layer
- Ball-joint bearing: POM, black
- Helicoidal spring: stainless steel
- Flexible sleeve: chrome plated steel
- Cup-shade tensioning element: POM, black
- LED plate: diecasted aluminum, finished electrocoating, matt black

## Technical characteristics

- Dimensions
  - 1 lamp unit:
    - Base: 211 mm x 42 mm x 50 mm (L x W x H), LED unit: ø58 mm x 141 mm
  - 2 lamp unit:
    - Base: 311 mm x 42 mm x 50 mm (L x W x H), LED unit: ø58 mm x 141 mm
- Reflectors
  - Spot, Medium and Flood beam for monochrome LED
  - Medium and Flood beam for warm dim LED
- COB high-power LED
  - Colour temperature: 2700K or 3000K, also available with warm dim technology (1800K – 3000K)
- Dimmability: DALI, 1-10V, PushDim, Casambi or mains dimming (trailing edge)
- CRI 90+
- 3SDCM
- Luminaire output per lamp-unit: 858lm (for 3000 K, medium)
- Luminaire efficiency: 66%
- Power consumption: 16.4W (1 lamp fixture), 29.5W (2 lamp fixture) driver included
- Luminaire efficacy: 52 lm/W (1 lamp), 57 lm/W (2 lamp)
- UGR > 19
- Glow wire rating 960°C
- Power: 220-230 V, 50-60 Hz
- Class 1
- Only for indoor use (IP20)
- Warranty period: 5 years on LED and driver



KOGEL SURFACE ADJUSTABLE 58 2X



KOGEL SURFACE ADJUSTABLE 58 1X

## Installation

- Galvanised backplate that is screwed on the surface by means of 2 chipboard screws of max.  $\varnothing 4.5\text{mm}$  (not included). The driver housing clicks on the backplate by means of two leaf springs.
- Electrical connection to the mains with 3-pole splicing connectors ( $0.2 - 4 \text{ mm}^2$ ; included in product).

## Accessories

Reflectors available depending type of LED source.

- for 2700K and 3000K LED:  
Magnetic reflectors in high gloss aluminium:
  - spot ( $15^\circ$ )
  - medium ( $25^\circ$ )
  - flood ( $40^\circ$ )
- for warm dim (1800K – 3000K) LED:  
Magnetic reflectors in high gloss aluminium:
  - medium ( $25^\circ$ )
  - flood ( $40^\circ$ )

## Standards and directives:

- 2006/95/EC - Low Voltage Directive
- 2004/108/EC - EMC Directive
- 2011/65/EU - RoHS Directive
- 2009/125/EC - ECO design Directive
- 245/2009/EC + 347/2010/EU - ECO design Directive
- 1194/2012/EU - ECOdesign Regulation
- EN 60598-1:2008 +A11:2009 - Luminaires. General requirements and tests
- EN 62471:2008 - Photobiological safety of LED lamps and lamp systems
- EN 62493: 2010 - Assessment of lighting equipment related to human exposure to electromagnetic fields
- EN 60598-2-1 - Fixed general purpose luminaires
- EN 55015:2006 +A1:2007 +A2:2009 - Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- EN 61000-3-2:2006 +A1,A2:2009 - Limits for harmonic current emissions (equipment input current  $\leq 16 \text{ A}$  per phase)
- EN 61000-3-3:2013 - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16 \text{ A}$  per phase and not subject to conditional connection
- EN 61547:2009 - EMC Immunity Requirements
- EN 50581:2012 - Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances