

MINUDE SURFACE ADJUSTABLE 45 SQUARE 2X



DESCRIPTION

Surface mounted high-power adjustable COB LED luminaire for wall and ceiling mounting. The luminaire consists of three main components: two cylindrical shaped LED units that are connected to a rectangular shaped surface mounted housing. The LED units are connected to the housing via brass bushings which make the LED units 360° rotatable along the vertical axis and 0° up to 90° in the vertical plane. An aspherical lens for optimum beam shape is used as optical system in each LED unit. Because the wiring is running internally from the LED units into the housing through the bushings, no visible wires after installation. The luminaire doesn't contain a LED driver, so has to be combined with an appropriate constant current LED driver (350mA or 500mA). The housing clicks on the ceiling bracket by means of two leaf springs, no visible screws after installation. Only for indoor use, protection class IP20.

MATERIALS

- Aluminum body finished in fine-textured scratch-resistant powder coating matt black or matt white. Also available in bronze, silver bronze, gold, champagne and matt black sanded anodization and black chrome high gloss finish. Or finished in raw aluminum covered with a matt transparent, slightly tinted varnish
- Aspherical lens optic in glass
- Aluminum pivoting rod and backplate, finished in scratch-resistant powder coating
- Aluminum heatsink, finished in black electroplating
- Ledholder: black polycarbonate
- Aluminum housing finished in fine-textured scratch-resistant powder coating matt black or matt white
- Ceiling bracket: galvanised steel, 1mm thickness

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TECHNICAL CHARACTERISTICS

- Base dimensions: 225mm x 25mm x 25mm (LxWxH)
- Led unit dimensions: ø45mm x 88mm
- Lens: spot (16°) and medium (28°)
- COB high-power LED
- Colour temperature: 2700K and 3000K (other colour temperatures available on request)
- CRI90+
- 2SDCM
- Luminaire output: 2x 610lm (@500mA, medium beam angle, 3000K, white structure)
- Luminaire efficiency: 62%
- Power consumption: 2x 8.5W (@500mA, driver excluded)
- Luminaire efficacy: 72lm/W
- UGR 13
- For connection to an electronic constant current LED driver: choose from driver matrix
- Class 3 luminaire
- Only for indoor use (IP20 rated)
- Glow wire rating 960°C
- Lifetime: L80B10 @50.000 hours
- Warranty period: 5 years

INSTALLATION

- Galvanised steel backplate that is screwed on the surface by means of 2 chipboard screws of max. ø4.5mm (not included). The ceiling housing clicks on the backplate by means of two leaf springs.
- Electrical connection to the mains with 2 single pole splicing connectors suitable for wiring from 0,2 up to 4mm² (20 to 14 AWG). The splicing connectors are included in the product.

ACCESSORIES

None

STANDARDS AND DIRECTIVES

- 2014/35/EU - Low Voltage Directive
- 2014/30/EU - EMC Directive
- 2011/65/EU - RoHS Directive
- 2009/125/EC - Ecodesign Directive
- (EU) 2019/2020 and amendment (EU) 2021/341
- EN 60598-1:2015 + A1:2018 - Luminaires General Requirements And Tests
- EN 62471:2008 - Photobiological Safety Of Lamps And Lamp Systems
- EN 62493: 2010 - Assessment Of Lighting Equipment To Human Exposure Of Electromagnetic Fields
- EN 60598-2-1:1989 - Fixed General Purpose Luminaires
- EN 55015:2019 + A1:2020 (incl ISH 1 & ISH 2) - Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- EN 61000-3-2:2014 - Limits for harmonic current emissions (equipment input current ≤ 16 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 ≤ 16 A per phase and not subject to conditional connection
- EN 61547:2009 - EMC Immunity Requirements
- EN IEC 63000:2018 - Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances