

Description

Cylindrical, adjustable surface miniaturized high-power LED luminaire, to be installed in a recess hole. The luminaire consists of three main components: the body, ceiling plate and a pivoting rod that enables the luminaire to be adjustable: 360° vertically, 90° horizontally.

The housing contains the aspherical lens for optimum beam shape.

The luminaire doesn't contain a LED driver, so has to be combined with an appropriate constant current LED driver (350mA or 500mA).

The ceiling plate holds on top two leaf springs which keep the luminaire in the ceiling recess.

No visible screws or wires after installation. For indoor use (IP20).

Materials

- Aluminium 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 in black chrome high gloss finish. Or finished in raw aluminium covered with a matt transparent, slightly tinted varnish called cast grey
- Aspherical lens optic in glass
- Aluminium pivoting rod and backplate, finished in scratch resistant matt black powder coating
- Aluminium heatsink, finished in black electroplating
- Internal leaf springs: stainless steel
- Ceiling plate: sheetmetal steel, finished in fine-textured scratch-resistant powder coating matt black or matt white
- Ledholder: black polycarbonate

Technical characteristics

- Dimensions: $\varnothing 45$ mm x 88 mm ($\varnothing$ x H excl. ceiling plate and pivoting rod)
- Lens: spot (16°) and medium (28°)
- COB high-power LED
- Colour temperature: 2700 K / 3000 K / (3500 K or 4000 K on request)
- CRI90+
- 2SDCM
- Luminaire output: 610lm (@500mA, medium beam angle, 3000K and white structure painted luminaire)
- Luminaire efficiency: 62%
- Power consumption: 8.5W (@500mA, driver excluded)
- UGR 13
- For connection to an electronic constant current LED driver: choose from driver matrix
- Class 3
- Only for indoor use (IP20)
- Glow wire rating: 960°C
- Lifetime: L80 B20 @50.000 hours
- Warranty period: 5 years on LEDs, 5 years on drivers

Installation

- Ceiling base mounted with two leafsprings in the recess hole ($\varnothing 40$, height 70mm).
- Electrical connection to LED driver by means of two leads (red and black, approx. 250mm each), and two 2-pole splicing connectors for wire sections from 0.2 to 4mm² (included)

Accessories

- none

Standards and directives:

- 2006/95/EC - Low Voltage Directive
- 2004/108/EC - EMC Directive
- 2011/65/EU - RoHS Directive
- 2009/125/EC - Ecodesign Directive
- 245/2009/EC + 347/2010/EU - Ecodesign 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 60598-2-2:2012 - Recessed 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 ≤ 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 50581:2012 - Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances



MINUDE 45 ADJUSTABLE SEMI-RECESSED

