

## Description

Non-directional, cylindrical luminaire with COB LED technology, to be installed in a recess hole. The luminaire consists of two main components: the front ring and the LED body. The front ring rests on the surface or wall and has a thickness of 6mm. The front ring contains a small matt black painted innerring, for optimal visual comfort. The housing contains the aluminum reflector for optimum beam shape. The reflector is covered with a transparent glass. The luminaire doesn't contain a LED driver, so has to be combined with an appropriate constant current LED driver. The ceiling plate holds on top two leaf springs which keep the luminaire in the ceiling recess. No visible screws or wires after installation. The downlight is suitable for damp indoor areas, protection class IP55.

## Materials

- Aluminium front ring finished in fine-textured scratch-resistant powder coating matt black or matt white
- Aluminium body finished in matt black electro coating
- Stainless steel leaf springs
- Reflector: high-gloss aluminium
- Transparent protective sheet in glass

## Technical characteristics

- Outer dimensions: 45 mm (ø) x 44.5 mm (H)
- Reflectors: medium (25°) or flood (40°)
- COB high-power LED
- Colour temperature: 2700K, 3000K or warmdim (1800-3000K)
- CRI 90+
- 2 SDCM
- Luminaire output: 349 lm (for 3000 K medium in white paint @500mA)
- Luminaire efficiency: 75%
- Power consumption: 4.3W per LED module (@500 mA) driver excluded
- UGR 12
- For connection to an electronic constant current LED driver: choose from driver matrix for suitable dimensions, wattage and type of dimming
- Warranty period: 5 years on LED lamps, 2 years on drivers L80B20 @ 50.000 hours
- Class 3
- Use: indoor, IP55 protection

## Installation

Recessed mounting in ceiling or wall by means of leaf springs. Recess hole: ø40mm, 65mm high. Unit must not be covered with insulation. Electrical connection: connection to LED driver via 2 leads (red and black, 250mm each) and two splicing connectors suitable for stranded and solid wires from 0.2mm² to 4mm² (24-12 AWG) (included with product).

## 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 restriction of hazardous substances

