

Description

Round recessed LED spot. Available in 3 different designs: curved, sharp or bevelled. Also available in an asymmetric version whereby the light pattern is projected at a 39° angle. Available in an IP20 version for indoor use and an IP55 version for damp indoor areas or for outdoor use. The spot can be combined with a round tube for surface mounting. The surface mounted tube is provided with a sealing ring as standard so that it remains an IP55 certified luminaire if combined with an IP55 rated luminaire.

Materials

- Aluminium housing finished with a scratch resistant fine textured powder coating in white or matt black. Also available in wet coating matt gold finish, or in ano-look brushed silver bronze, bronze, black or champagne.
- Lens: PMMA
- Front cover: glass (IP55 certified version only)
- Surface mounted tube: white or matt black, fine textured scratch resistant finished aluminium

Technical characteristics

- Smart 48 dimensions: external diameter 48 mm, height between 44 mm and 55 mm
- Surface mounted tube dimensions: external diameter 52 mm, height 72 mm
- Lens system: medium (25°)
- high-power LED
- Colour temperature: 2700K, 3000K, 4000K or warm dim (1800K-3000K) (3500K available on request)
- CRI 90+ for all colour temperatures
- 3SDCM
- Luminaire output: 110 lm (values for 3000K, medium reflector at 500 mA)
- Luminaire efficiency: 95%
- UGR < 16 (for all models)
- Power consumption: 1.5 W (at 500 mA)
- Powered by electronic LED drivers: choose from driver matrix, max. 500 mA
- Warranty period: 5 years on LED lamps, 5 years on drivers in driver matrix
- Class 3
- Use: IP20 certified version for indoors and IP55 certified version for outdoors
- Glow wire rating 960°C

Installation

- Can be recess mounted in plasterboard (recess diameter 44 mm) and wood (recess diameter 46 mm).
- Fixation by means of two asymmetric leaf springs
- For surface mounted tube: use two universal chipboard screws of max. \varnothing 4.5 (not included)
- Electrical connection: connection to LED driver (0.5 - 1.5 mm²), connectors included

Accessories

- Recess housing for concrete: Installation conbox
- Recess housing for plasterboard: Installation gypkit
- Surface mounting accessories:
 - Surface tubed wall down, no driver included
 - Surface tubed wall up/down, no driver included
 - Surface tubed suspension, driver included (trailing edge dimmable)
 - Surface tubed suspension, no driver included (with recessed ceiling plate)

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 \leq 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 \leq 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

