

Description

Non-directional, cone-shaped square recessed luminaire suitable for halogen lamps (both 12V or 230V), LED retrofit lamps (both on 12V or GU10) or for dedicated high-power LED modules. The cone fluently moves from the square shape at the bottom into a round shape towards the inside. The 6mm wide and 1.2mm thick edge is hardly visible. Also available in a IP55 certified version for damp indoor areas. For ceiling recess only.

Materials

- Steel housing finished in fine-textured scratch-resistant fine-textured powder coating matt black or matt white.
- Torsion springs in stainless steel
- Torsion spring holders in galvanized steel
- Aluminium lampring finished in fine-textured scratch-resistant fine-textured powder coating matt black or matt white
- Aluminium outer frame finished in fine-textured scratch-resistant fine-textured powder coating matt black or matt white (only for the IP55 version)
- Clear safety glass (only for the IP55 version)

Technical characteristics

- Dimensions: 87x87x55mm (IP20 version); 92x92x48mm (IP55 version)
- Output, power, colour temperature, CRI, beam angle, UGR: all depending on the type of lamp and/or dedicated high-power LED module used
- Powered by electronic LED drivers: choose from driver matrix
- Warranty period: 5 years on LED lamps, 2 years on drivers
- Class 3 for version intended for use with high-power LED modules and 12V halogen
- Class 1 for version intended for use with 230V halogen lamps or 230V GU10 LED bulbs
- Use: indoor (IP20 or IP55)

Installation

- Recessed mounting in ceiling only.
- Recess dimensions: 78x78mm H 95 mm IP20 version; 84x84mm H 95mm for the IP55 version
- Fixation by means of torsion springs.
- Unit must not be covered with insulation.
- Electrical connection:
 - version for use with dedicated high power LED module: connection to LED driver via two splicing connectors (included with product). Suitable constant current LED driver can be chosen from a driver list
 - version for use with 12V halogen or retrofit LED bulb: connection to halogen transformer or 12V driver via 2-pole terminal block
 - version for use with 230V halogen or retrofit LED bulb: connection to the mains via 2-pole terminal block and earthing wire
- The recessed luminaire can be combined with a perforated aluminium plasterplate (190 x 190mm)
- or with a galvanised steel housing for recessed installation in concrete (190 x 192 x 130 mm).

Accessories

- Recessed housing for concrete (conbox)
- Plasterplate for plasterboard (gypkit)

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

