# **SMART 115 LED**



## Description

Non-directional, cone-shaped recessed luminaire with COB LED technology.

Available in 3 different designs: curved, sharp or bevelled. The 7 mm unit edge is hardly visible. Also available in a IP54 certified version for damp indoor areas. The luminaire can be combined with a surface or suspension mounted tube and a square or rectangular housing to create a surfacemounted luminaire. In addition, it can also be combined with a square or rectangular finishing plate, thus transforming the round recessed luminaire to a square recessed luminaire.

## Materials

- Aluminium front ring finished in fine-textured scratch-resistant fine-textured powder coating or matt white. Also available in wet coating matt gold finish.
- Aluminium heatsink, bionic shaped for optimal heat dissipation
- High-gloss aluminium reflectors
- Matt diffusor in polycarbonate (for the IP54 version)
- Clear safety glass (for the IP54 version)

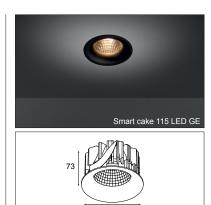
### Technical characteristics

- Dimensions: 115 mm (ø) x 63 mm (H)
- Reflectors: spot (15°), medium (25°), flood (40°), wide flood (85° for diffuse version)
- COB high-power LED
- Colour temperature: 2700K, 3000K or 4000K (3500K available on request)
- CRI 90+
- 3 SDCM
- Luminaire output: 1434lm (for 3000K medium, bevelled design in white)
- Luminaire efficiency: 93%
- Power consumption: 16.25 W per LED module (@500 mA)
- Powered by electronic LED drivers: choose from driver matrix
- Warranty period: 5 years on LED lamps, 2 years on drivers
- Class 3
- Use: indoor

## Installation

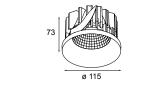
- Recessed mounting in ceiling or wall. Recess dimensions: ø108 mm, H 100 mm.
  - Fixation by means of leaf springs.
- Unit must not be covered with insulation.
- Electrical connection: connection to LED driver via two splicing connectors (included with product).
- The recessed luminaire can be combined with a mounting ring for trimless installation (ø127).
- The recessed luminaire can be combined with a perforated aluminium plasterplate (190 x 190, ø108 mm) or with a galvanised steel housing for recessed installation in concrete (190 x 192 x 130 mm).

- Aluminium finishing plate, square (for 1 luminaire) or rectangular (for 2 luminaires), finished with finetextured scratch-resistant powder coating in white, black or wet coating matt gold.
- Square (for 1 unit) or rectangular (for 2 units) surface mounting accessory (available with or without builtin LED driver), combined with square or rectangular finishing plate recessed by 10 mm in the dispatched in the housing. Surface mounting housing finished in scratch-resistant fine-textured powder coating in white or black.
- Cylindrical surface mounted housing with built-in driver (ø130 mm, height 123 mm) finished in scratchresistant fine-textured powder coating in white or black or in brushed aluminium.
- Cylindrical housing for suspension mounting with built-in driver (ø130 mm, height 123 mm) finished in scratch-resistant fine-textured powder coating in white or black or in brushed aluminium. Provided with 2 meter white or black textile cable.
- Dome shaped surface suspended housing with or without built-in LED driver (ø152mm)
- Recessed housing for concrete (conbox)
- Plasterplate for plasterboard (gypkit)

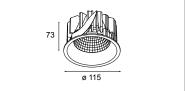




a 115







- Standards and directives:

  2006/95/EC Low Voltage Directive

  2004/108/EC EMC Directive

  2011/65/EU RoHS 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 +411:2009 Luminaires. General requirements and tests

  EN 60598-1:2008 +A11:2009 Luminaires. General requirements and tests

  EN 62493: 2010 Assessment of lighting equipment related to human exposure to electromagnetic fields

  EN 60598-2-2:2012 Recessed luminaires

  EN 5015-2006 +A1:2007 +A2:2009 Limits and methods of measurement of radio disturbance character
- EN 55015:2006 +A1:2007 +A2:2009 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- 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 +A1.42:2009 Limits for harmonic current emissions (equipment input current is 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 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