

Description

Retrofit COB LED module, developed for replacing former AR111 halogen light sources. The outer diameter of the module is 111mm for easy fit.

The LED module consists of high quality materials and contains 5 main components: a heatsink, a frontring, a reflector, a protective glass and a COB LED.

The frontring contains the protective glass and is screwed on the heatsink.

The LED module contains also two leafsprings that can be used to keep the module in place in any lampring of the original halogen luminaire. Available in various colour temperatures.

The module has to be combined with an appropriate constant current LED driver (350mA, 500mA or 700mA). Only for indoor use, IP20 protection glass.

Materials

- Diecasted aluminum frontring, finished in fine-textured scratch-resistant powder coating matt white, in scratch-resistant powder coating matt black (without texture) or finished in brushed aluminium
- Diecasted aluminum heatsink, finished in black electrocoating
- Protective shield: borosilicate glass, 2mm
- Led holder: polycarbonate
- Leaf springs: stainless steel
- Reflector: aluminum, finished with high gloss layer for optimum optical efficiency

Technical characteristics

- Dimensions:
 - \varnothing 111 mm, 63mm in height
- Reflectors: spot, medium or flood
- COB high-power LED
- Colour temperature: 2700K, 3000K and 4000K
- For connection to an electronic constant current LED driver: choose from driver matrix
- CRI 90+
- 3SDCM
- LED module output: 1596lm (for 3000 K, medium reflector, @700mA)
- Power consumption: 23.5W
- Luminaire efficacy: 67 lm/W
- UGR 18
- Glow wire rating 960°C
- Class 3
- Only for indoor use (IP20)
- Lifetime: L80B20 @50.000 hours
- Warranty period: 5 years on LED and driver

Installation

- Use the retrofit LED module to refurbish older halogen luminaires AR111 with latest technology for higher light output and improved energy efficiency
- The retrofit LED module needs to be connected to a suitable constant current LED driver via 2 leads (red and black, 300mm each) and via two splicing connectors suitable for stranded and solid wires from 0.2mm² to 4mm² (24-12 AWG) (included in product)
- The retrofit LED module is fitted with two leaf springs to install in a luminaire's lampring with one simple click.

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 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