SHELLBY

MODULAR LIGHTING — INSTRUMENTS

Description

Non-directional, asymmetrical, deep-recessed round recessed luminaire with LED technology. The luminaire features a floating glass sphere in an asymmetrical aluminium housing for a diffuse and consistent light effect. The luminaire guarantees an IP55 certified level of protection.
Available in 2 versions: with trim (outer diameter 184mm) and trimless (outer diameter 176mm).
The units can be combined with different installation accessories that help to obtain the perfect finish.

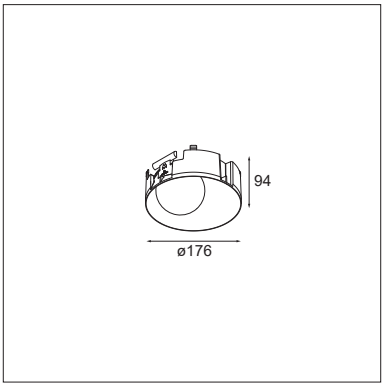

SHELLBY 176 TRIMLESS

Materials

- Aluminium housing finished in fine-textured scratch-resistant powder coating in matt white or matt black
- Aluminium heatsink, matt black electro coated for optimal heat dissipation
- Stainless steel torsion springs (version with trim), stainless steel leaf springs (trimless version)
- White silicon gasket
- Hand-blown white diffuse glass sphere

Technical characteristics

- Dimensions:
  - Trimless version: 176 mm (ø) x 94 mm (H)
  - Version with trim: 184 mm (ø) x 94 mm (H)
- COB high-power LED
- Colour temperature: 2700K, 3000K or warm dim (1800K – 3000K)
- CRI 90+
- 2 SDCM for 2700K and 3000K
- 3 SDCM for warmdim
- Luminaire output: 516 lm (for 3000K @500 mA, white finish), UGR 30
- Luminaire efficiency: 52%
- Power consumption: 8.5 W (@500 mA), 61 lm/W
- Class 3
- For connection to an electronic constant current LED driver: choose from driver matrix
- Lifetime: L80 B20 @50.000 hours
- Warranty period: 5 years on LED lamps, 2 years on drivers
- Use: indoor, IP55, suitable for damp locations



Installation

Electrical connection to LED driver by means of two leads (red and black, approx. 300mm each), and two 2-pole splicing connectors for wire sections from 0.2 to 4mm² - 24 to 12 AWG (included)
Recessed mounting in ceiling or wall.

The way of installation depends on the type of luminaire and type of ceiling (with trim or trimless).

INSTALLATION OF VERSION WITH TRIM:

- In case of false ceiling (in wood, plasterboard, …): recess hole dimension ø177mm, H100mm. Installation by means of 2 torsion springs that hold the luminaire in the recess hole. The torsion springs are suitable for ceiling thickness from 3 to 40mm. No extra installation accessories needed.
- In case of structural ceilings (concrete, brick, …) that are plastered afterwards: installation by means of a galvanized steelplate concrete box that can be combined with an optional gypsum fibreboard cover plate. It is possible to include the LED driver in the conbox.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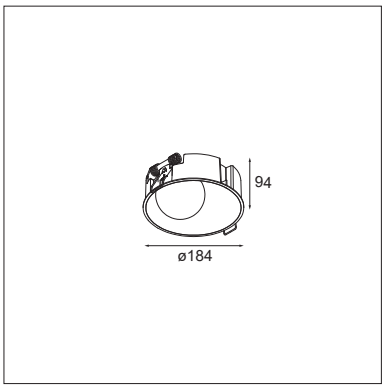
INSTALLATION OF TRIMLESS VERSION:

Always to be combined with a trimless ring accessory in which the luminaire clicks by means of 3 leaf springs. The trimless ring is suitable for ceiling thicknesses from 1 to 26mm. The recessed ring contains a safety steel cable that can be clamped around the backside of the luminaire.

- In case of exposed concrete finish two options are available:
  1. A separate trimless concrete ring to be used in combination with a standard plastic concrete box solution
  2. A trimless concete ring already mounted in a sheetmetal plate to be used in combination with an optional galvanized steelplate concrete box. It is possible to include the LED driver in the concrete box.
- In case of structural ceilings (concrete, brick, …) that are plastered afterwards: a trimless ring already mounted in a perforated sheetmetal plate to be used in combi¬nation with the optional galvanized steelplate concrete boxes. Possible to include the LED driver in the concrete box.



Accessories

See above

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