

GEOMETRY SUSPENDED ADJUSTABLE 672X1288 2X

Description

Rectangular adjustable LED luminaire for suspended mounting.

The luminaire consists of 3 main components: two identical LED discs, an outer frame and the suspension system.

The LED disc is the center of the luminaire and has an outer diameter of 610mm. It contains multiple technical components. First of all, a rolled aluminum ring in which the 24V is mounted at the innerside. The total LEDstrip length is 1875mm. Constant voltage 24V LED driver excluded.

The LED disc is built up by several optical layers: a matt diffuser at the front side, a lightguide in the middle and a reflector foil at the backside.

The LED disc is covered by a metal backplate that protects the complete LED disc. The metal backplate is secured by 2 set screws and 2 additional steel cables. The backplate can also be fitted with a mirroring backside finish.

The LED disc contains the mechanical hinge system and assures a smooth rotational movement of the disc inside the outer frame. The hinge system also allows to keep the LED disc stable and fixed in any position.

The outer frame (672x1288mm) is assembled from welded aluminum extrusions. The LED discs are mounted on the outer frame by means of two clamps around the hinge system. The hinge system contains the rotation stop, allowing the disc to be rotated maximum 360°.

The outer frame is fitted with 4 adjusters to accommodate the steel suspension cables. The adjusters are mounted in the outer frame with aluminum brackets. The suspension cables each have a cylindric holder to install the luminaire on the ceiling.

IP20 protection grade for indoor use.

No visible screws after installation.

Materials

- Aluminum LED ring and outer frame, finished with a scratch resistant fine textured powder coating in matt white or matt black
- LED disc backplate: steelplate, finished with a scratch resistant fine textured powder coating in matt white or matt black or covered with a high-gloss silver or black chrome backplate
- High-gloss mirror black or silver chrome backplate: PMMA
- Front diffuser: matt white UV-resistant polystyrene
- Lightguide: clear PMMA 6mm, engraved with matt dots for lightcoupling
- Reflective foil: white high-gloss polycarbonate sheet, 1mm
- Reflective foil clamp: black polycarbonate
- Hinge: brass
- Hinge clamp: diecast aluminum, black electrocoated
- Suspension adjuster bracket: diecast aluminum, black electrocoated

Technical characteristics

- Dimensions: 672x672mm, height 30mm (suspension adjusters not taken into account)
- 24V flexible LEDstrip
- Colour temperature: 3000K
- CRI 90+
- Binning: 3SDCM
- Luminaire output for each LED disc: 2316lm (for 3000 K, white structure finish)
- Total power consumption: 42W (driver excluded), 110 lm/W
- For use with a 24V constant voltage driver, choose from driver matrix for suitable dimensions, wattage and type of dimming
- Warranty period: 5 years on LED, 2 years on drivers
- Power: 24Vdc
- Class 3
- Only for indoor use
- Glow wire rating 650°C
- Lifetime: L80B10 @50.000 hours



Installation

For suspended mounting. Suspension kits with steelcables of 4 meter and 8 meter length available as accessory.

Surface and semi-recessed power feed housings (to make electrical connection at the ceiling side) also available as a separate accessory.

Use a 24V constant voltage LED driver. Install the driver in the electrical cabinet or remote in the false ceiling. Choose the right driver from the driver matrix, based on required dimensions, power or type of dimming.

The electrical connection is done at the backside of the outer ring by means of two 2-pole splicing connectors, included in the product and suitable for wiring sections 0.2 – 4 mm² (24 – 12 AWG). Respect the polarity (red = positive, black = negative)

The packaging of the luminaire contains a printed template for easy marking of the suspension point positions on the ceiling.

Accessories

- Use suspension kits, available in 4 meter and 8 meter cable length
- Use power feed housings, available for surface and semi-recessed mounting
- A separate suspension accessory for slanted ceilings is available.
- A mechanical connector is available to combine several luminaires closely together.

Standards and directives:

- 2006/95/EC - Low Voltage Directive
- 2004/108/EC - EMC Directive
- 2011/65/EU - RoHS Directive
- 2009/125/EC - ECO design Directive
- 245/2009/EC + 347/2010/EU - ECO design 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 60598-2-1 - Fixed general purpose 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