

FLAT MOON LED 450 (SURFACE/SUSPENSION)

Description

Round shaped LED luminaire for ceiling surface or suspension application. The rounded housing is made of an aluminium extruded profile that has been bent into the circular shape. The extrusion has a curved side which gives the luminaire its typical soft slope.

The LED luminaire is fitted with a dedicated round LED PCB which is placed on a white powder painted led holder plate. The PCB contains 104 medium power LED's which are equally distributed on the surface.

The back of the housing contains a steel plate with the electronic LED driver and terminal block for easy connection to the mains.

A PMMA diffuser covers the front of the luminaire which results in a high efficient luminaire with no dottiness. All of the electric and electronic components at the backside of the luminaire are covered by a metal ceiling housing.

No visible screws or wires after installation.

Materials

- Aluminium housing finished with a scratch resistant fine textured powder coating in white or matt black
- Led holder plate in steel finished with a scratch resistant fine white textured powder coating
- Backcover in steel (for the surface mounted version) or aluminium (for the suspension version), both finished with a scratch resistant fine textured powder coating in white or matt black
- Driver plate in galvanized steel
- PMMA white diffuser

Technical characteristics

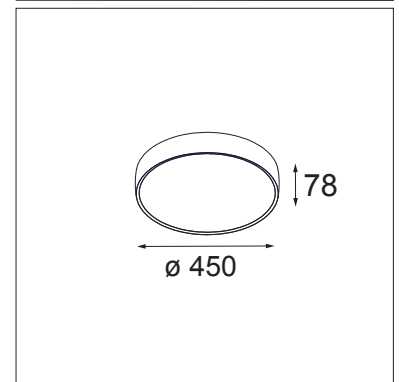
- Dimensions: $\varnothing 450\text{mm}$, H 78mm
- Circular PCB with medium power LED's
- Colour temperature: 2700 K, 3000K or 4000K
- CRI 90+
- 3SDCM
- Luminaire output: 2545lm (for 3000K, and standard diffuser)
- Luminaire efficiency: 79%
- Luminaire power consumption: 29.4W (driver included), 86.5lm/W
- UGR 22
- Built-in LED driver, 1-10V/Pushdim or DALI
- Warranty period: 5 years on LED, 2 years on drivers
- Power: 220-230 V, 50-60 Hz
- Class 1
- Only for indoor use

Installation

- **SURFACE:** Round steel baseplate (painted in scratch resistant fine textured black powder coating) to be mounted on the ceiling with four universal chipboard screws of max. $\varnothing 4.5\text{ mm}$. After electrical connection, mount the luminaire on the baseplate with 4 Torx screws (included in luminaire). Electrical connection to mains with 5 pole terminal block ($0.75\text{ to }2.5\text{mm}^2$) suitable for through wiring.
- **SUSPENSION:** Luminaire housing has 3 slotted holes at the backside to fit a triangular or singular suspension set. Connect power feed cable of the suspension set to the mains with 5 pole terminal block ($0.75\text{ to }2.5\text{mm}^2$) suitable for through wiring.

Accessories

- Prismatic front diffuser, PMMA. This results in a high efficient and low UGR rated luminaire that complies with the EN12464-1 office standard.
 - Luminaire output: 2508lm (for 3000K)
 - Luminaire efficiency: 78%
 - Luminaire power consumption: 29.4W (driver included), 85.3lm/W
 - UGR 19
- Ice Prismatic front diffuser, PMMA. This results in a high efficient and low UGR rated luminaire that complies with the EN12464-1 office standard.
 - Luminaire output: 2431lm (for 3000K)
 - Luminaire efficiency: 75.5%
 - Luminaire power consumption: 29.4W (driver included), 82.7lm/W
 - UGR 19
- Cover plates: Steel cover plates painted in scratch resistant fine textured powder coating in white or matt black to cover the backside of the luminaire when used with suspension kit.
- Suspension kit: available in triangular or singular version. Ceiling housing, steelcable and transparent power feed cable included. Available in $3 \times 0,75\text{mm}^2$ (when used non-dimmable) or $5 \times 0,75\text{mm}^2$ (when used dimmable).



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 60598-2-1: 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