

LUMEDIC 595X595MM SM 12100LM RA80 4000K GLASS/PRM IP65 I CL. W IK09 83W

DETAILED CARD



TECHNICAL PARAMETERS

| | |
|---|---------------------|
| Index: | 505645 |
| Ingress protection: | IP65 |
| Impact resistance: | IK09 |
| Luminous flux [lm]*: | 12100 |
| Color rendering index (Ra) >: | 80 |
| Energy efficiency class: | E |
| Material of the body: | powder coated steel |
| Diffuser material: | szyba hartowana |
| Diffuser type: | Glass/PRM |
| Mounting version: | recessed |

CHARACTERISTICS

Lumedic SM this is a specialist cleanroom luminaire designed for cleanrooms with an air cleanliness class of ISO 3–9, in accordance with ISO 14644-1:2015 Cleanroom, and meeting stringent hygiene and sterility requirements. The design ensures ease of cleaning and high mechanical and environmental resistance. A robust steel housing with an IP65 rating on both the room side and the technical space side ensures complete airtightness in a sterile environment, whilst allowing free airflow above the suspended ceiling.

The luminaire front is made of aluminium and 4 mm thick tempered glass, resistant to impact (IK09 class) and chemical agents. The modular diffuser system (Glass / Opal / PRM) allows for the selection of the appropriate optical characteristics depending on the application requirements — from uniform, diffused light to precise directional light distribution. The SM version is designed for installation in modular ceilings.

APPLICATION

- laboratories (microbiological, pharmaceutical, chemical),
- hospitals (operating theatres, intensive care units, diagnostic laboratories),
- food and pharmaceutical industry,
- cleanrooms in electronics and semiconductor manufacturing.

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TECHNICAL PARAMETERS TABLE

| | | | |
|--|---------------------|---|---|
| Index: | 505645 | Dimensions (H/W/T/S) [mm]: | 595/595/65 |
| EAN: | 5905963505645 | Mounting dimensions [mm]: | 600/600 |
| Light source: | LED module | Impact resistance: | IK09 |
| Rated power of the luminaire [W]: | 83 | Ingress protection: | IP65 |
| Supply voltage [V]: | 220 - 240 | Mounting version: | recessed |
| Frequency [Hz]: | 0/50/60 | Working temperature [°C]: | from -20 to +35 |
| Luminous flux [lm]: | 12100 | LED lifespan L70B50 [h]: | 150000 |
| Luminous efficacy [lm/W]: | 146 | LED lifespan L80B10 [h]: | 100000 |
| Energy efficiency class: | E | LED lifespan L90B10 [h]: | 50000 |
| Electrical protection class: | I | Number on the palette [pcs]: | 16 |
| Colour temperature [K]: | 4000 | Net weight [kg]: | 7.600 |
| Color rendering index (Ra) >: | 80 | Gross weight [kg]: | 8.200 |
| Power factor: | 0.95 | Photobiological safety: | RG0 - exempt (no photobiological hazard) |
| Diffuser material: | szyba hartowana | Warranty [years]: | 5 |
| Diffuser type: | Glass/PRM | CE certificate: | 87/2026 |
| Optics material: | PS | ENEC Certificate: | 0463/ENEC/25 |
| Optics: | PRM | PZH certificate: | B-BK-60112-0109/2026 |
| Material of the body: | powder coated steel | Environmental Product Declaration (EPD): | 869/2025 |
| Colour of the body: | biały Ral 9003 | Manual: | Download PDF |
| Ring material: | aluminium | ISO Certificates: | 9001:2015, 14001:2015, 45001:2018, 50001:2018, ISO 3 - 9 (ISO 14644-1:2015) |
| Ring colour: | biały Ral 9003 | Plik LDT: | Download |

Card creation date: 23 June 2026

The company reserves the right to make design changes or upgrades in the presented product. Product data sheet does not constitute an offer. * Parameter tolerance is +/- 10%



This product is a subject to electric and electronic waste equipment regulations (WEEE).



Certificate CE - Nr: 87/2026