

LUMEDIC 595X595MM SM 4775LM RA95 4000K GLASS/OPAL IP65 I CL. W IK09 47W

DETAILED CARD



TECHNICAL PARAMETERS

| | |
|---|---------------------|
| Index: | 505683 |
| Ingress protection: | IP65 |
| Impact resistance: | IK09 |
| Rated power of the luminaire [W]*: | 47 |
| Luminous flux [lm]*: | 4775 |
| Colour temperature [K]: | 4000 |
| Color rendering index (Ra) >: | 95 |
| Energy efficiency class: | F |
| Electrical protection class: | I |
| Material of the body: | powder coated steel |

CHARACTERISTICS

Lumedic SM CRI95 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 is characterised by very high colour rendering quality (CRI > 95), with high values for the R9 = 94.7 and R13 = 98.9 components. The R9 parameter, responsible for the rendering of saturated red colours, is of key importance in medical diagnostics, surgery and laboratory analyses, where the precise differentiation of shades of blood, tissues and biological materials is critical. A high R9 value indicates the use of light sources with a full, continuous spectrum, which is not available in standard LED luminaires.

The R13 parameter relates to the accurate rendering of skin tones and materials with light, pastel shades. An R13 value of 98.9 ensures a natural appearance of work surfaces, hands and staff faces, reducing eye strain and the risk of visual misjudgement in high-stakes environments such as operating theatres, pharmaceutical laboratories and quality control rooms.

The luminaire front is made of aluminium and 4 mm thick tempered glass, which is impact-resistant (IK09 class) and resistant to chemicals. 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: | 505683 | Dimensions (H/W/T/S) [mm]: | 595/595/65 |
| EAN: | 5905963505683 | Mounting dimensions [mm]: | 600/600 |
| Light source: | LED module | Impact resistance: | IK09 |
| Rated power of the luminaire [W]: | 47 | 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]: | 4775 | LED lifespan L70B50 [h]: | 150000 |
| Luminous efficacy [lm/W]: | 102 | LED lifespan L80B10 [h]: | 100000 |
| Energy efficiency class: | F | LED lifespan L90B10 [h]: | 50000 |
| Electrical protection class: | I | Number on the palette [pcs]: | 16 |
| Colour temperature [K]: | 4000 | Net weight [kg]: | 7.500 |
| Color rendering index (Ra) >: | 95 | Gross weight [kg]: | 8.100 |
| Power factor: | 0.95 | Photobiological safety: | RG0 - exempt (no photobiological hazard) |
| Diffuser material: | szyba hartowana | Warranty [years]: | 5 |
| Diffuser type: | Glass/Opal | CE certificate: | 87/2026 |
| Optics material: | PS | ENEC Certificate: | 0463/ENEC/25 |
| Optics: | OPAL | 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