# LUMEDIC 595X1195MM SM 5100LM RA95 3000K GLASS/PRM IP65 I CL. W IK09 R 48W

DETAILED CARD



## TECHNICAL PARAMETERS

| | |
|---|---|
| **Index:** | 495304 |
| **Ingress protection:** | IP65 |
| **Impact resistance:** | IK09 |
| **Rated power of the luminaire [W]*:** | 48 |
| **Luminous flux [lm]*:** | 5100 |
| **Colour temperature [K]:** | 3000 |
| **Color rendering index (Ra) >:** | 95 |
| **Energy efficiency class:** | E |
| **Electrical protection class:** | I |
| **Material of the body:** | powder coated steel |

## CHARACTERISTICS

Lumedic SM R 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. Its design ensures ease of cleaning and high mechanical and environmental resistance. A robust steel housing with IP65 protection on the room side and on the technical side ensures complete tightness in a sterile environment, while allowing free air flow above the suspended ceiling. Service access is provided from the technical side (top inspection), allowing maintenance without interfering with the clean room.
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 reproduction of saturated red colours, is crucial in medical diagnostics, surgery and laboratory analyses, where 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 for standard LED luminaires.
The R13 parameter refers to the faithful reproduction 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-responsibility environments such as operating theatres, pharmaceutical laboratories and quality control rooms.
The front of the luminaire is made of aluminium and 4 mm thick tempered glass, resistant to impact (IK09 class) and chemicals. The modular shutter system (Glass / Opal / PRM) allows you to select the appropriate optical characteristics depending on the application requirements — from uniform, diffused light to precise directional distribution. The SM R 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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DETAILED CARD

## TECHNICAL PARAMETERS TABLE

| | |
|---|---|
| **Index:** | 495304 |
| **EAN:** | 5905963495304 |
| **Light source:** | LED module |
| **Rated power of the luminaire [W]:** | 48 |
| **Supply voltage [V]:** | 220 - 240 |
| **Frequency [Hz]:** | 0/50/60 |
| **Luminous flux [lm]:** | 5100 |
| **Luminous efficacy [lm/W]:** | 106 |
| **Energy efficiency class:** | E |
| **Electrical protection class:** | I |
| **Colour temperature [K]:** | 3000 |
| **Color rendering index (Ra) >:** | 95 |
| **Power factor:** | 0.95 |
| **Diffuser material:** | szyba hartowana |
| **Diffuser type:** | Glass/PRM |
| **Optics material:** | PS |
| **Optics:** | PRM |
| **Material of the body:** | powder coated steel |
| **Colour of the body:** | biały (RAL 9003) |
| **Ring material:** | aluminium |
| **Ring colour:** | white (RAL 9003) |
| **Dimensions (H/W/T/S) [mm]:** | 595/1195/65 |

| | |
|---|---|
| **Mounting dimensions [mm]:** | 600/1200 |
| **Impact resistance:** | IK09 |
| **Ingress protection:** | IP65 |
| **Mounting version:** | recessed |
| **Working temperature [°C]:** | from -20 to +35 |
| **LED lifespan L70B50 [h]:** | 150000 |
| **LED lifespan L80B10 [h]:** | 100000 |
| **LED lifespan L90B10 [h]:** | 50000 |
| **Number on the palette [pcs]:** | 8 |
| **Net weight [kg]:** | 19.800 |
| **Surge protection [kV]:** | 1 |
| **Photobiological safety:** | RG0 - exempt (no photobiological hazard) |
| **Warranty [years]:** | 5 |
| **CE certificate:** | 143/2026 |
| **ENEC Certificate:** | 0463/ENEC/25 |
| **PZH certificate:** | B-BK-60112-0109/2026 |
| **Environmental Product Declaration (EPD):** | 869/2025 |
| **Manual:** | Download PDF |
| **ISO Certificates:** | 9001:2015. 14001:2015, 45001:2018, 50001:2018, ISO 3 - 9 (ISO 14644-1:2015) |
| **SDCM:** | 3 |
| **Plik LDT:** | Download |

Card creation date: 04 September 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 andelectronic waste equipment regulations (WEEE).

Certificate CE - Nr: 143/2026

LENA LIGHTING

Lena Lighting S.A.
ul. Kórnicka 52, 63-000 Środa Wielkopolska
tel. +48 61 28 60 333 (Pn-Pt, 8-16), e-mail: hello@lenalighting.pl, www.lenalighting.pl