LUMEDIC 595X595MM SM 4425LM RA95 4000K GLASS/OPAL LNS IP65 I CL. W IK09 R 50W

DETAILED CARD



TECHNICAL PARAMETERS

Index:	789847
Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	50
Luminous flux [lm]*:	4425
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 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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TECHNICAL PARAMETERS TABLE

Index:	789847
EAN:	5905963789847
Light source:	LED module
Rated power of the luminaire [W]:	50
Supply voltage [V]:	220 - 240
Frequency [Hz]:	0/50/60
Luminous flux [lm]:	4425
Luminous efficacy [lm/W]:	88
Energy efficiency class:	F
Electrical protection class:	I
Colour temperature [K]:	4000
Color rendering index (Ra) >:	95
Power factor:	0.95
Diffuser material:	szyba hartowana
Diffuser type:	Glass/Opal
Optics material:	PS
Optics:	OPAL
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]:	595/595/65

Mounting dimensions [mm]:	600/600
Impact resistance:	IK09
Ingress protection:	IP65
Mounting version:	recessed
Working temperature [°C]:	from -20 to +35
LED lifespan L70B50 [h]:	200000
LED lifespan L80B10 [h]:	100000
LED lifespan L90B10 [h]:	50000
Number on the palette [pcs]:	16
Net weight [kg]:	11
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

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