

LUMEDIC 595X595MM SM 4600LM RA95 3000K GLASS/OPAL LNS IP65 I CL. W IK09 R 47W

DETAILED CARD



TECHNICAL PARAMETERS

Index:	789861
Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	47
Luminous flux [lm]*:	4600
Colour temperature [K]:	3000
Color rendering index (Ra) >:	95
Energy efficiency class:	F
Electrical protection class:	I
Material of the body:	powder coated steel

CHARACTERISTICS

Lumedic SM R CR195 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:	789861	Dimensions (H/W/T/S) [mm]:	595/595/65
EAN:	5905963789861	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]:	4600	LED lifespan L70B50 [h]:	200000
Luminous efficacy [lm/W]:	98	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]:	3000	Net weight [kg]:	11
Color rendering index (Ra) >:	95	Photobiological safety:	RG0 - exempt (no photobiological hazard)
Power factor:	0.95	Warranty [years]:	5
Diffuser material:	szyba hartowana	CE certificate:	64/2026
Diffuser type:	Glass/Opal	ENEC Certificate:	0463/ENEC/25
Optics material:	PS	PZH certificate:	B-BK-60112-0109/2026
Optics:	OPAL	Environmental Product Declaration (EPD):	869/2025
Material of the body:	powder coated steel	Manual:	Download PDF
Colour of the body:	biały Ral 9003	ISO Certificates:	9001:2015, 14001:2015, 45001:2018, 50001:2018, ISO 3 - 9 (ISO 14644-1:2015)
Ring material:	aluminium	Plik LDT:	Download
Ring colour:	biały Ral 9003		

Card creation date: 07 May 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: 64/2026