

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

DETAILED CARD



TECHNICAL PARAMETERS

Index:	505706
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 is a specialist cleanroom luminaire designed for cleanrooms with heightened 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

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:	505706	Ring material:	aluminium
EAN:	5905963505706	Ring colour:	biały Ral 9003
Light source:	LED module	Dimensions (H/W/T/S) [mm]:	595/595/65
Rated power of the luminaire [W]:	47	Mounting dimensions [mm]:	600/600
Supply voltage [V]:	220 - 240	Impact resistance:	IK09
Frequency [Hz]:	0/50/60	Ingress protection:	IP65
Luminous flux [lm]:	4600	Mounting version:	recessed
Luminous efficacy [lm/W]:	98	Working temperature [°C]:	from -20 to +35
Energy efficiency class:	F	Number on the palette [pcs]:	16
Electrical protection class:	I	Net weight [kg]:	7.500
Colour temperature [K]:	3000	Gross weight [kg]:	8.100
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:	55/2026
Diffuser type:	Glass/Opal	ENEC Certificate:	0463/ENEC/25
Optics material:	PS	Environmental Product Declaration (EPD):	869/2025
Optics:	OPAL	Manual:	Download PDF
Material of the body:	powder coated steel	ISO Certificates:	9001:2015, 14001:2015, 45001:2018, 50001:2018
Colour of the body:	biały Ral 9003		

Card creation date: 20 April 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: 55/2026