

LUMEDIC 595X595MM SM 12100LM RA80 4000K GLASS/PRM LNS IP65 I CL. W IK09 R 83W

DETAILED CARD



TECHNICAL PARAMETERS

Index:	783456
Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	83
Luminous flux [lm]*:	12100
Colour temperature [K]:	4000
Color rendering index (Ra) >:	80
Energy efficiency class:	E
Material of the body:	powder coated steel
Diffuser material:	szyba hartowana

CHARACTERISTICS

Lumedic SM R 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 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:	783456	Ring colour:	biały Ral 9003
EAN:	5905963783456	Dimensions (H/W/T/S) [mm]:	595/595/65
Light source:	LED module	Mounting dimensions [mm]:	600/600
Rated power of the luminaire [W]:	83	Impact resistance:	IK09
Supply voltage [V]:	220 - 240	Ingress protection:	IP65
Frequency [Hz]:	0/50/60	Mounting version:	recessed
Luminous flux [lm]:	12100	Working temperature [°C]:	from -20 to +35
Luminous efficacy [lm/W]:	146	Number on the palette [pcs]:	16
Energy efficiency class:	E	Net weight [kg]:	11
Electrical protection class:	I	LED lifespan L70B50 [h]:	150000
Colour temperature [K]:	4000	LED lifespan L80B10 [h]:	100000
Color rendering index (Ra) >:	80	LED lifespan L90B10 [h]:	50000
Power factor:	0.95	Photobiological safety:	RG0 - exempt (no photobiological hazard)
Surge protection [kV]:	2	Warranty [years]:	5
Diffuser material:	szyba hartowana	CE certificate:	88/2026
Diffuser type:	Glass/PRM	ENEC Certificate:	0463/ENEC/25
Optics material:	PS	PZH certificate:	B-BK-60112-0109/2026
Optics:	PRM	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:	biały Ral 9003	Plik LDT:	Download

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: 88/2026