

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

DETAILED CARD



TECHNICAL PARAMETERS

Index:	505645
Ingress protection:	IP65
Impact resistance:	IK09
Luminous flux [lm]*:	12100
Color rendering index (Ra) >:	80
Energy efficiency class:	E
Material of the body:	powder coated steel
Diffuser material:	szyba hartowana
Diffuser type:	Glass/PRM
Mounting version:	recessed

CHARACTERISTICS

Lumedic SM 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. 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 front is made of aluminium and 4 mm thick tempered glass, resistant to impact (IK09 class) and chemical agents. 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:	505645	Dimensions (H/W/T/S) [mm]:	595/595/65
EAN:	5905963505645	Mounting dimensions [mm]:	600/600
Light source:	LED module	Impact resistance:	IK09
Rated power of the luminaire [W]:	83	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]:	12100	LED lifespan L70B50 [h]:	150000
Luminous efficacy [lm/W]:	146	LED lifespan L80B10 [h]:	100000
Energy efficiency class:	E	LED lifespan L90B10 [h]:	50000
Electrical protection class:	I	Number on the palette [pcs]:	16
Colour temperature [K]:	4000	Net weight [kg]:	7.600
Color rendering index (Ra) >:	80	Gross weight [kg]:	8.200
Power factor:	0.95	Photobiological safety:	RG0 - exempt (no photobiological hazard)
Diffuser material:	szyba hartowana	Warranty [years]:	5
Diffuser type:	Glass/PRM	CE certificate:	87/2026
Optics material:	PS	ENEC Certificate:	0463/ENEC/25
Optics:	PRM	PZH certificate:	B-BK-60112-0109/2026
Material of the body:	powder coated steel	Environmental Product Declaration (EPD):	869/2025
Colour of the body:	biały Ral 9003	Manual:	Download PDF
Ring material:	aluminium	ISO Certificates:	9001:2015, 14001:2015, 45001:2018, 50001:2018, ISO 3 - 9 (ISO 14644-1:2015)
Ring colour:	biały Ral 9003	Plik LDT:	Download

Card creation date: 28 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: 87/2026