

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

DETAILED CARD



## TECHNICAL PARAMETERS

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

<b>Index:</b>	783456	<b>Ring colour:</b>	biały Ral 9003
<b>EAN:</b>	5905963783456	<b>Dimensions (H/W/T/S) [mm]:</b>	595/595/65
<b>Light source:</b>	LED module	<b>Mounting dimensions [mm]:</b>	600/600
<b>Rated power of the luminaire [W]:</b>	83	<b>Impact resistance:</b>	IK09
<b>Supply voltage [V]:</b>	220 - 240	<b>Ingress protection:</b>	IP65
<b>Frequency [Hz]:</b>	0/50/60	<b>Mounting version:</b>	recessed
<b>Luminous flux [lm]:</b>	12100	<b>Working temperature [°C]:</b>	from -20 to +35
<b>Luminous efficacy [lm/W]:</b>	146	<b>Number on the palette [pcs]:</b>	16
<b>Energy efficiency class:</b>	E	<b>Net weight [kg]:</b>	11
<b>Electrical protection class:</b>	I	<b>LED lifespan L70B50 [h]:</b>	150000
<b>Colour temperature [K]:</b>	4000	<b>LED lifespan L80B10 [h]:</b>	100000
<b>Color rendering index (Ra) &gt;:</b>	80	<b>LED lifespan L90B10 [h]:</b>	50000
<b>Power factor:</b>	0.95	<b>Photobiological safety:</b>	RG0 - exempt (no photobiological hazard)
<b>Surge protection [kV]:</b>	2	<b>Warranty [years]:</b>	5
<b>Diffuser material:</b>	szyba hartowana	<b>CE certificate:</b>	<a href="#">88/2026</a>
<b>Diffuser type:</b>	Glass/PRM	<b>ENEC Certificate:</b>	<a href="#">0463/ENEC/25</a>
<b>Optics material:</b>	PS	<b>PZH certificate:</b>	<a href="#">B-BK-60112-0109/2026</a>
<b>Optics:</b>	PRM	<b>Environmental Product Declaration (EPD):</b>	<a href="#">869/2025</a>
<b>Material of the body:</b>	powder coated steel	<b>Manual:</b>	<a href="#">Download PDF</a>
<b>Colour of the body:</b>	biały Ral 9003	<b>ISO Certificates:</b>	9001:2015, 14001:2015, 45001:2018, 50001:2018, ISO 3 - 9 (ISO 14644-1:2015)
<b>Ring material:</b>	biały Ral 9003	<b>Plik LDT:</b>	<a href="#">Download</a>

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