LUMEDIC SM CRI95

GENERAL CARD



TECHNICAL PARAMETERS

Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	50.00; 86.00
Luminous flux [lm]*:	4500 - 8850
Colour temperature [K]:	3000; 4000
Color rendering index (Ra) >:	95
Material of the body:	powder coated steel
Diffuser type:	Glass/Opal; Glass/PRM
Optics:	OPAL; PRM
Mounting version:	recessed
Dimensions (H/W/T/S) [mm]:	595/595/65;
SDCM:	3

CHARACTERISTICS

Lumedic SM CRI95 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 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

- 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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AVAILABLE VERSIONS

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Rated power of the luminaire [W]*	Colour temperature [K]	Luminous flux [lm]*	Diffuser type	DIMM DALI	Index
50	3000	4500	Glass/Opal		>> 505706
50	3000	4500	Glass/Opal	yes	>> 505713
50	4000	4675	Glass/Opal		>> 505683
50	4000	4675	Glass/Opal	yes	>> 505690
50	3000	5375	Glass/PRM		>> 505782
50	3000	5375	Glass/PRM	yes	>> 505799
50	4000	5575	Glass/PRM		>> 505768
50	4000	5575	Glass/PRM	yes	>> 505775
86	3000	7200	Glass/Opal		>> 505744
86	3000	7200	Glass/Opal	yes	>> 505751
86	4000	7425	Glass/Opal		>> 505720
86	4000	7425	Glass/Opal	yes	>> 505737
86	3000	8575	Glass/PRM		>> 505829
86	3000	8575	Glass/PRM	yes	>> 505836
86	4000	8850	Glass/PRM		>> 505805
86	4000	8850	Glass/PRM	yes	>> 505812

Card creation date: 30 September 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 andelectronic waste equipment regulations (WEEE).

Certificate CE - Nr: 142/2026; 168/2026; 63/2026; 87/2026

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