

LUMEDIC SM R CRI95

GENERAL CARD



TECHNICAL PARAMETERS

Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	47.00 - 83.00
Luminous flux [lm]*:	3925 - 7325
Colour temperature [K]:	3000; 4000
Color rendering index (Ra) >:	95
Material of the body:	powder coated steel
Diffuser material:	szyba hartowana
Diffuser type:	Glass/Opal; Glass/Opal/PRM; Glass/PRM
Mounting version:	recessed
Dimensions (H/W/T/S) [mm]:	595/595/65;

CHARACTERISTICS

Lumedic SM R 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. 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 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 reproduction of saturated red colours, is crucial in medical diagnostics, surgery and laboratory analyses, where 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 for standard LED luminaires.

The R13 parameter refers to the faithful reproduction 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-responsibility environments such as operating theatres, pharmaceutical laboratories and quality control rooms.

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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AVAILABLE VERSIONS



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Lumedic SM R CRI95 Glass/Opal

Rated power of the luminaire [W]*	Colour temperature [K]	Luminous flux [lm]*	Diffuser type	DIMM DALI	Emergency lighting [h]	Index
47	3000	4600	Glass/Opal		3	>> 529474
47	3000	4600	Glass/Opal			>> 789861
47	3000	4600	Glass/Opal	yes		>> 789878
47	4000	4775	Glass/Opal		3	>> 529467
47	4000	4775	Glass/Opal			>> 789847
47	4000	4775	Glass/Opal	yes		>> 789854
83	3000	6725	Glass/Opal	yes		>> 789915
83	3000	6725	Glass/Opal			>> 789908
83	3000	6725	Glass/Opal		3	>> 529498
83	4000	6975	Glass/Opal		3	>> 529481
83	4000	6975	Glass/Opal	yes		>> 789892
83	4000	6975	Glass/Opal			>> 789885

Lumedic SM R CRI95 Glass/Opal/PRM

Rated power of the luminaire [W]*	Colour temperature [K]	Luminous flux [lm]*	Diffuser type	DIMM DALI	Emergency lighting [h]	Index
47	3000	3925	Glass/Opal/PRM	yes		>> 789793
47	3000	3925	Glass/Opal/PRM			>> 789786
47	3000	3925	Glass/Opal/PRM		3	>> 529436
47	4000	4075	Glass/Opal/PRM			>> 789762
47	4000	4075	Glass/Opal/PRM		3	>> 529429
47	4000	4075	Glass/Opal/PRM	yes		>> 789779
83	3000	6000	Glass/Opal/PRM	yes		>> 789830
83	3000	6000	Glass/Opal/PRM			>> 789823
83	3000	6000	Glass/Opal/PRM		3	>> 529450
83	4000	6275	Glass/Opal/PRM		3	>> 529443
83	4000	6275	Glass/Opal/PRM	yes		>> 789816
83	4000	6275	Glass/Opal/PRM			>> 789809

Lumedic SM R CRI95 Glass/PRM

Rated power of the luminaire [W]*	Colour temperature [K]	Luminous flux [lm]*	Diffuser type	DIMM DALI	Emergency lighting [h]	Index
47	3000	4825	Glass/PRM		3	>> 529801
47	3000	4825	Glass/PRM			>> 789946
47	3000	4825	Glass/PRM	yes		>> 789953
47	4000	4975	Glass/PRM		3	>> 529795
47	4000	4975	Glass/PRM	yes		>> 789939

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Rated power of the luminaire [W]*	Colour temperature [K]	Luminous flux [lm]*	Diffuser type	DIMM DALI	Emergency lighting [h]	Index
47	4000	4975	Glass/PRM			>> 789922
83	3000	7050	Glass/PRM	yes		>> 789991
83	3000	7050	Glass/PRM			>> 789984
83	3000	7050	Glass/PRM		3	>> 529825
83	4000	7325	Glass/PRM	yes		>> 789977
83	4000	7325	Glass/PRM			>> 789960
83	4000	7325	Glass/PRM		3	>> 529818

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: 64/2026



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