

LUMEDIC SM R CRI95

GENERAL CARD



TECHNICAL PARAMETERS

Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	49.00 - 86.00
Luminous flux [lm]*:	3650 - 6750
Colour temperature [K]:	3000; 4000
Color rendering index (Ra) >:	95
Material of the body:	powder coated steel
Diffuser material:	szyna 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 is a specialist Cleanroom luminaire designed for clean rooms with increased 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 IP50 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	Index
49	3000	4250	Glass/Opal	yes	>> 789878
49	3000	4250	Glass/Opal		>> 789861
49	4000	4400	Glass/Opal		>> 789847
49	4000	4400	Glass/Opal	yes	>> 789854
86	3000	6250	Glass/Opal	yes	>> 789915
86	3000	6250	Glass/Opal		>> 789908
86	4000	6450	Glass/Opal	yes	>> 789892
86	4000	6450	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	Index
49	3000	3650	Glass/Opal/PRM		>> 789786
49	3000	3650	Glass/Opal/PRM	yes	>> 789793
49	4000	3750	Glass/Opal/PRM	yes	>> 789779
49	4000	3750	Glass/Opal/PRM		>> 789762
86	3000	5550	Glass/Opal/PRM	yes	>> 789830
86	3000	5550	Glass/Opal/PRM		>> 789823
86	4000	5800	Glass/Opal/PRM	yes	>> 789816
86	4000	5800	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	Index
49	3000	4450	Glass/PRM		>> 789946
49	3000	4450	Glass/PRM	yes	>> 789953
49	4000	4600	Glass/PRM		>> 789922
49	4000	4600	Glass/PRM	yes	>> 789939
86	3000	6550	Glass/PRM		>> 789984
86	3000	6550	Glass/PRM	yes	>> 789991
86	4000	6750	Glass/PRM		>> 789960
86	4000	6750	Glass/PRM	yes	>> 789977

Card creation date: 05 February 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: 151/2025