

LUMEDIC 595X1195MM SW 8700LM RA95 3000K GLASS/PRM IP65 I CL. DALI W IK09 R 84W

DETAILED CARD



TECHNICAL PARAMETERS

Index:	495007
Ingress protection:	IP65
Impact resistance:	IK09
Rated power of the luminaire [W]*:	84
Luminous flux [lm]*:	8700
Colour temperature [K]:	3000
Color rendering index (Ra) >:	95
Energy efficiency class:	E
Material of the body:	powder coated steel
Diffuser material:	szyba hartowana

CHARACTERISTICS

Lumedic SW 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 SW R version is designed for installation in reinforced 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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Index:	495007	Mounting dimensions [mm]:	585/1185
EAN:	5905963495007	Impact resistance:	IK09
Light source:	LED module	Ingress protection:	IP65
Rated power of the luminaire [W]:	84	Mounting version:	recessed
Supply voltage [V]:	220 - 240	Working temperature [°C]:	from -20 to +35
Frequency [Hz]:	0/50/60	LED lifespan L70B50 [h]:	150000
Luminous flux [lm]:	8700	LED lifespan L80B10 [h]:	100000
Luminous efficacy [lm/W]:	103	LED lifespan L90B10 [h]:	50000
Energy efficiency class:	E	DIMM DALI:	yes
Electrical protection class:	I	Number on the palette [pcs]:	8
Colour temperature [K]:	3000	Net weight [kg]:	19.800
Color rendering index (Ra) >:	95	Surge protection [kV]:	1
Power factor:	0.97	Photobiological safety:	RG0 - exempt (no photobiological hazard)
Diffuser material:	szyba hartowana	Warranty [years]:	5
Diffuser type:	Glass/PRM	CE certificate:	146/2026
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:	white (RAL 9003)	SDCM:	3
Dimensions (H/W/T/S) [mm]:	595/1195/65	Plik LDT:	Download