



Cleanroom LED

CR434B LED88/830 PSD W30L120 AC-MLO PI

Led Cleanroom mod. 600 lay-in, LED Module 8800 lm, 830 warm white, Power supply unit with DALI interface, Acrylate micro-lens optic, Push-in connector 5-pole

Customers operating highly hygienic facilities – in hospitals, laboratories, and certain production environments, e.g. in the food industry – require special IP65, easy-to-clean, dust-free luminaires that meet all applicable lighting requirements and norms. With the latest LED engine on board, this LED cleanroom luminaire represents the ideal solution, delivering market-leading energy performance – far beyond fluorescent solutions – over 50,000 hours of maintenance-free operation. This means extremely low operational cost over the total lifetime of the luminaire, and so an excellent financial return on investment. The luminaire’s high color rendering properties ensure the top-class optical performance required in e.g. clinical areas in hospitals and other areas where it is crucial to be able to distinguish between colors, such as in the graphical and clothing industries.

Product data

General Information		
Lamp family code	LED88 [LED Module 8800 lm]	B10. Therefore, the median useful life (B50) value also represents the B10 value.
Cap-Base	- [-]	Service tag
Light source replaceable	No	Yes
Number of gear units	1 unit	Product family code
Driver included	Yes	CR434B [Led Cleanroom mod. 600 lay-in]
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example	Lighting Technology
		LED
		Value ladder
		Specification
		CE mark
		Yes
		Warranty period
		5 years
		Flammability mark
		For mounting on normally flammable surfaces
		ENEC mark
		-

Cleanroom LED

Glow-wire test	Temperature 850 °C, duration 5 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	6,000 lm
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	109 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Light source color	830 warm white
Optic type	-
Optical cover type	Acrylate micro-lens optic
Luminaire light beam spread	120°
Unified glare rating CEN	19

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	4.5 A
Inrush time	1 ms
Power Consumption	56 W
Power Factor (Fraction)	0.95
Connection	Push-in connector 5-pole
Cable	-
Number of products on MCB of 16 A type B	24

Temperature

Ambient temperature range	-20 to +40 °C
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Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
Constant light output	No

Mechanical and Housing

Housing Material	Steel
Reflector material	Aluminum
Optic material	-
Optical cover material	Acrylate
Fixation material	-
Housing Color	White

Optical cover finish	Textured
Overall length	1,196 mm
Overall width	296 mm
Overall height	74 mm
Dimensions (Height x Width x Depth)	74 x 296 x 1196 mm

Approval and Application

Ingress protection code	IP64 [Dust penetration-protected, splashproof]
Mech. impact protection code	IK02/05
Protection class IEC	Safety class I

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.43, 0.40) SDCM <3
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50000 h	5 %
Lumen maintenance at median useful life* 50000 h	L80

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	No

Product Data

Order product name	CR434B LED88/830 PSD W30L120 AC-MLO PI
Full product name	CR434B LED88/830 PSD W30L120 AC-MLO PI
Full product code	871794391893500
Order code	91893500
Material Nr. (12NC)	910501978403
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943918935
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943918935

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Dimensional drawing

