Cleanroom LED

CR434B LED88/840 PSD W30L120 AC-MLO PI

Led Cleanroom mod. 600 lay-in, LED Module 8800 lm, 840 neutral 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]
Cap-Base	- [-]
Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
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 B10. Therefore, the median useful life (B50) value also represents the B10 value.
Service tag	Yes
Product family code	CR434B [Led Cleanroom mod. 600 lay-in]
Lighting Technology	LED
Value ladder	Specification
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable surfaces
ENEC mark	-

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

Light Technical

Luminous Flux	6,300 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	115 lm/W
Color rendering index (CRI)	≥80
Number of light sources	1
Light source color	840 neutral 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	53 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

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	(0.38, 0.38) 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 LED88/840 PSD W30L120 AC-MLO PI
Full product name	CR434B LED88/840 PSD W30L120 AC-MLO PI
Full product code	871794391894200
Order code	910501978503
Material Nr. (12NC)	910501978503
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943918942
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943918942

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Dimensional drawing