

# Cleanroom LED

## CR446B LED88/840 PSD W62L62 AC-MLO PI

Led Cleanroom mod. 625 lay-out - LED Module 8800 lm - 840 neutral white - Power supply unit with DALI interface - Width 0.62 m, length 0.62 m - Acrylate micro-lens optic - Push-in connector 3-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			
Number of light sources	1 pc	Optical cover/lens type	Acrylate micro-lens optic
Lamp family code	LED88 [ LED Module 8800 lm]	Luminaire light beam spread	120°
Light source color	840 neutral white	Control interface	DALI
Cap-Base	- [ -]	Connection	Push-in connector 3-pole
Light source replaceable	No	Cable	-
Number of gear units	1 unit	Protection class IEC	Safety class I
Driver/power unit/transformer	Power supply unit with DALI interface	Mounting	Lay-out mounting
Driver included	Yes	Glow-wire test	Temperature 850 °C, duration 5 s
Optic type	-	Flammability mark	For mounting on normally flammable surfaces

## Cleanroom LED

Safety device	No [-]
CE mark	CE mark
ENEC mark	ENEC plus mark
UL mark	-
Warranty period	5 years
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.
Constant light output	No
Number of products on MCB of 16 A type B	20
RoHS mark	RoHS mark
Product family code	CR446B [ Led Cleanroom mod. 625 lay-out]
Unified glare rating CEN	19

### Operating and Electrical

Input Voltage	220 to 240 V
Input Frequency	50 to 60 Hz
Control signal voltage	0-16 V DC DALI
Inrush current	48 A
Inrush time	1 ms
Power Factor (Min)	0.95

### Controls and Dimming

Dimmable	Yes
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### Mechanical and Housing

Geometry	Width 0.62 m, length 0.62 m
Housing Material	Steel
Reflector material	Aluminum
Optic material	-
Optical cover/lens material	Acrylate
Fixation material	-
Optical cover/lens finish	Textured
Overall length	637 mm
Overall width	637 mm
Overall height	74 mm

### Approval and Application

Ingress protection code	IP65 [ Dust penetration-protected, jet-proof]
Mech. impact protection code	IK05 [ 0.7 J]

### Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	6300 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	115 lm/W
Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥80
Initial chromaticity	(0.38, 0.38) SDCM <3
Initial input power	55 W
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

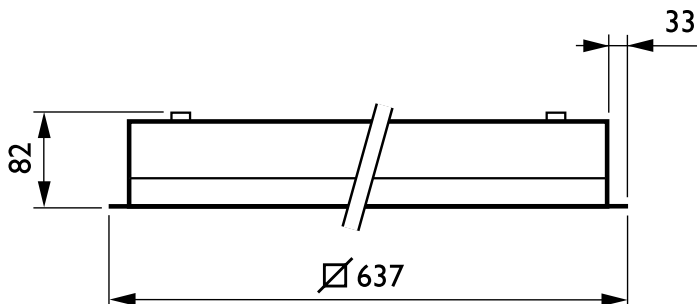
Ambient temperature range	-20 to +40 °C
Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	No

### Product Data

Full product code	871794391910900
Order product name	CR446B LED88/840 PSD W62L62 AC-MLO PI
EAN/UPC - Product	8717943919109
Order code	910501980103
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910501980103
Net Weight (Piece)	13.100 kg

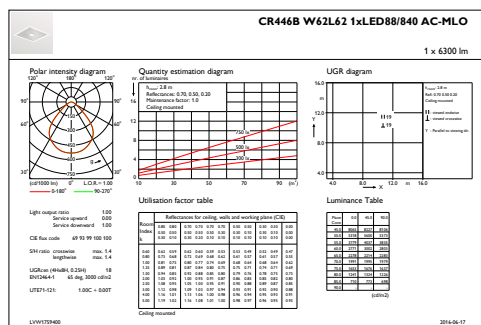
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## Dimensional drawing

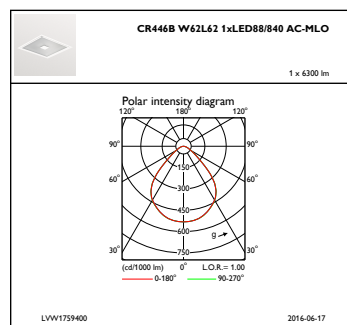


Cleanroom CR434B-CR446B

## Photometric data



IFGU1\_CR446BW62L621xLED88840AC-MLO



IFPC1\_CR446BW62L621xLED88840AC-MLO

