# **PHILIPS** Lighting



# **Cleanroom LED**

# CR444B LED48/840 PSD W60L60 AC-MLO PI

Led Cleanroom mod. 600 lay-out, LED Module 4800 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-toclean, 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**

LED48 [LED Module 4800 lm]
- [-]
No
1 unit
Yes
*-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	CR444B [Led Cleanroom mod. 600 lay-out]
Lighting Technology	LED
Value ladder	Specification
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	-

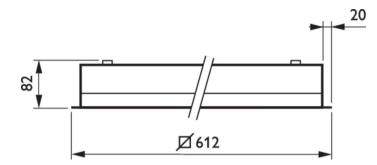
## **Cleanroom LED**

Glow-wire test	Temperature 850 °C, duration 5 s
EU RoHS compliant	Yes
	165
Light Technical	
Luminous Flux	3.900 lm
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	120 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	16
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	22 A
Inrush time	0.275 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	24
В	
Temperature	
Ambient temperature range	-20 to +40 ℃
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	612 mm
Overall width	612 mm
Overall height	74 mm
Dimensions (Height x Width x Depth)	74 x 612 x 612 mm
Approval and Application	
Ingress protection code	IP64/65 Dust penetration-protected,
	splashproof/ Jet-proof
Mech. impact protection code	IK02/05
Sustainability rating	-
Protection class IEC	Safety class I
Initial Porformanco (IEC Compliant	<u>\</u>
Initial Performance (IEC Compliant Luminous flux tolerance	·
Initial chromaticity	+/-10% (0.38, 0.38) SDCM <3
Power consumption tolerance	+/-10%
Over Time Performance (IEC Comp	liant)
Control gear failure rate at median usefu	l 5%
life 50000 h	
Lumen maintenance at median useful life	e* L80
50000 h	
Application Conditions	
Performance ambient temperature Tq	25 ℃
Maximum dim level	1%
Suitable for random switching	No
Product Data	
Order product name	CR444B LED48/840 PSD W60L60 AC-ML0
	PI
Full product name	CR444B LED48/840 PSD W60L60 AC-ML0
	PI
Full product code	871794391902400
Order code	91902400
Material Nr. (12NC)	910501979303
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943919024
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943919024
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### **Cleanroom LED**

#### Dimensional drawing





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