



Uniform, reliable, value-for-money solution

Cleanroom LED CR250B

In applications where hygiene is crucially important, such as hospitals and food production facilities, customers want proven IP65- and IP54-rated luminaires that are safe to use and come at an attractive price. This family of fixtures represents true value for money: the Philips LED engine delivers reliable, high-quality light, and the flexible mounting possibilities mean that this family can be used in a wide range of applications. The fixtures are also compliant with all relevant standards (CE, EMC, RoHS).

Benefits

- Value-for-money investment
- Low maintenance due to the long lifetime of the luminaire
- Meets light-level requirements for main applications

Features

- Uniform surface of light
- IP65 (glass cover) and IP54 (PMMA cover) versions
- Light output 3500 to 5500 lm
- Works with different ceiling types
- Class II

Application

- Food production facilities and kitchens
- Hospitals and other healthcare facilities
- Clean production areas

Specifications

Cleanroom LED CR250B

Type	CR150B (IP54 PMMA-cover version)
	CR250B (IP65 glass-cover version)
Ceiling type	Exposed and symmetrical concealed T-bar ceiling and plaster (board) ceiling
Ceiling grid	Module size in length: 600 mm
	Module size in length: 1,200 mm
Light source	Replaceable LED module
Power	3,500 lm, 40 W
	5,500 lm, 63 W
Beam angle	110 °
Luminous flux	3,500, 5,500 lm
Correlated Colour	4,000 K
Temperature	
Colour Rendering Index	≥ 80
Median useful life	50,000 hours
L70B50	
Median useful life	30,000 hours
L80B50	
Median useful life	15,000 hours
L90B50	
Driver failure rate	1% per 5,000 hours
Average ambient temperature	+25 °C

Operating temperature range	CR250B: -20 to +40 °C
	CR150B: 0 to +40 °C
Driver	Built-in
Power/Data supply	Class II
Mains voltage	220-240 V/50-60 Hz
Dimming	DALI version available
Material	Housing: sheet steel, lacquered
Colour	White RAL9016
Optical cover	Clear glass + Polystyrene diffuser or
	PMMA diffuser
Connection	Screw terminal block + cable gland
Maintenance	CR250B: maintainance possible
	CR150B: sealed for life
Installation	CR250B: lay in, concealed and plaster with screw fastener
	CR150B: lay in, plaster ceiling with additional bracket
	Surface-mounted with additional brackets
	No through-wiring possible
Accessories	Surface-mounted brackets (CR250B, CR150B)
	Plaster ceiling bracket (CR150B)
	Safety cable (CR250B, CR150B)

Versions



CR250B



CR250B



CR150B



CR150B

Product details



Cleanroom_LED-
CR250B_W60L60-DP01



Cleanroom_LED-
CR250B_W60L60-DP02

Cleanroom LED CR250B

Product details



Cleanroom_LED-CR250B_PSU-DP08



Cleanroom_LED-CR250B_W60L60_CR250Z_SMB-DP14



Cleanroom_LED-CR250B_W30L120_CR250Z_SMB-DP13



Cleanroom_LED-CR150B_W60L60_CR150Z_SMB-DP12



Cleanroom_LED-CR150B_W30L120_PSU-DP04



Cleanroom_LED-CR150B-PSU_W30L120_PSU-DP06



Cleanroom_LED-CR150B_W30L120_CR150Z_SMB-DP11



Cleanroom_LED-CR150B_W30L120_PSD-DP05

Cleanroom LED CR250B

Product details



Cleanroom_LED-
CR150B_W30L120_PSD-DP07

Accessories



Bracket for surface mounting,
module size 600x600 mm

Ordercode 07295000



CR250Z

Ordercode 07296700



Bracket for surface mounting,
module size 600x600 mm

Ordercode 07297400



Bracket for surface mounting,
module size 300x1200 mm

Ordercode 07298100



CR250Z

Ordercode 07302599

Cleanroom LED CR250B

Application Conditions

Suitable for random switching	Yes
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Operating and Electrical

Input Voltage	220-240 V
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General Information

CE mark	CE mark
Protection class IEC	Safety class II (II)
Driver included	Yes
ENEC mark	-
Flammability mark	D
Light source replaceable	Yes
Number of gear units	1 unit
Number of light sources	2
Optic type	No

Initial Performance (IEC Compliant)

Init. Corr. Colour Temperature	4000 K
Init. Colour rendering index	>80
Luminous flux tolerance	+/-5%

Mechanical and Housing

Colour	White
Diameter	-

Application Conditions

Order Code	Full Product Name	Ambient temperature range	Maximum dimming level
07283700	CR250B LED35S/840 PSU W60L60 IP65	-20 to +40 °C	-
07284400	CR250B LED35S/840 PSD W60L60 IP65	-20 to +40 °C	1%
07285100	CR250B LED55S/840 PSU W60L60 IP65	-20 to +40 °C	-
07286800	CR250B LED55S/840 PSD W60L60 IP65	-20 to +40 °C	1%
07287500	CR250B LED35S/840 PSU W30L120 IP65	-20 to +40 °C	-
07288200	CR250B LED35S/840 PSD W30L120 IP65	-20 to +40 °C	1%
07289900	CR250B LED55S/840 PSU W30L120 IP65	-20 to +40 °C	-
07290500	CR250B LED55S/840 PSD W30L120 IP65	-20 to +40 °C	1%
07291200	CR150B LED35S/840 PSU W60L60 IP54	0 to +40 °C	-
07292900	CR150B LED35S/840 PSD W60L60 IP54	0 to +40 °C	1%
07293600	CR150B LED35S/840 PSU W30L120 IP54	0 to +40 °C	-
07294300	CR150B LED35S/840 PSD W30L120 IP54	0 to +40 °C	1%

Approval and Application

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
07283700	CR250B LED35S/840 PSU W60L60 IP65	IK07	IP65
07284400	CR250B LED35S/840 PSD W60L60 IP65	IK07	IP65
07285100	CR250B LED55S/840 PSU W60L60 IP65	IK07	IP65
07286800	CR250B LED55S/840 PSD W60L60 IP65	IK07	IP65
07287500	CR250B LED35S/840 PSU W30L120 IP65	IK07	IP65
07288200	CR250B LED35S/840 PSD W30L120 IP65	IK07	IP65

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
07289900	CR250B LED55S/840 PSU W30L120 IP65	IK07	IP65
07290500	CR250B LED55S/840 PSD W30L120 IP65	IK07	IP65
07291200	CR150B LED35S/840 PSU W60L60 IP54	IK03	IP54
07292900	CR150B LED35S/840 PSD W60L60 IP54	IK03	IP54
07293600	CR150B LED35S/840 PSU W30L120 IP54	IK03	IP54
07294300	CR150B LED35S/840 PSD W30L120 IP54	IK03	IP54

Controls and Dimming

Order Code	Full Product Name	Dimmable
07283700	CR250B LED35S/840 PSU W60L60 IP65	No
07284400	CR250B LED35S/840 PSD W60L60 IP65	Yes
07285100	CR250B LED55S/840 PSU W60L60 IP65	No
07286800	CR250B LED55S/840 PSD W60L60 IP65	Yes
07287500	CR250B LED35S/840 PSU W30L120 IP65	No
07288200	CR250B LED35S/840 PSD W30L120 IP65	Yes

Order Code	Full Product Name	Dimmable
07289900	CR250B LED55S/840 PSU W30L120 IP65	No
07290500	CR250B LED55S/840 PSD W30L120 IP65	Yes
07291200	CR150B LED35S/840 PSU W60L60 IP54	No
07292900	CR150B LED35S/840 PSD W60L60 IP54	Yes
07293600	CR150B LED35S/840 PSU W30L120 IP54	No
07294300	CR150B LED35S/840 PSD W30L120 IP54	Yes

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General Information

Order Code	Full Product Name	Optical cover/ lens type	Glow-wire test	Lamp family code
07283700	CR250B LED35S/840 PSU W60L60 IP65	GC-D	850/30	GRN35
07284400	CR250B LED35S/840 PSD W60L60 IP65	GC-D	850/30	GRN35
07285100	CR250B LED55S/840 PSU W60L60 IP65	GC-D	850/30	GRN55
07286800	CR250B LED55S/840 PSD W60L60 IP65	GC-D	850/30	GRN55
07287500	CR250B LED35S/840 PSU W30L120 IP65	GC-D	850/30	GRN35
07288200	CR250B LED35S/840 PSD W30L120 IP65	GC-D	850/30	GRN35

Order Code	Full Product Name	Optical cover/ lens type	Glow-wire test	Lamp family code
07289900	CR250B LED55S/840 PSU W30L120 IP65	GC-D	850/30	GRN55
07290500	CR250B LED55S/840 PSD W30L120 IP65	GC-D	850/30	GRN55
07291200	CR150B LED35S/840 PSU W60L60 IP54	PM	650/30	GRN35
07292900	CR150B LED35S/840 PSD W60L60 IP54	PM	650/30	GRN35
07293600	CR150B LED35S/840 PSU W30L120 IP54	PM	650/30	GRN35
07294300	CR150B LED35S/840 PSD W30L120 IP54	PM	650/30	GRN35

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
07283700	CR250B LED35S/840 PSU W60L60 IP65	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W
07284400	CR250B LED35S/840 PSD W60L60 IP65	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W
07285100	CR250B LED55S/840 PSU W60L60 IP65	(0.38, 0.38) SDCM <3	87 lm/W	5500 lm	63 W
07286800	CR250B LED55S/840 PSD W60L60 IP65	(0.38, 0.38) SDCM <3	87 lm/W	5500 lm	63 W
07287500	CR250B LED35S/840 PSU W30L120 IP65	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W
07288200	CR250B LED35S/840 PSD W30L120 IP65	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W

Order Code	Full Product Name	Initial chromaticity	Initial LED luminaire efficacy	Initial luminous flux	Initial input power
07289900	CR250B LED55S/840 PSU W30L120 IP65	(0.38, 0.38) SDCM <3	87 lm/W	5500 lm	63 W
07290500	CR250B LED55S/840 PSD W30L120 IP65	(0.38, 0.38) SDCM <3	87 lm/W	5500 lm	63 W
07291200	CR150B LED35S/840 PSU W60L60 IP54	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W
07292900	CR150B LED35S/840 PSD W60L60 IP54	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W
07293600	CR150B LED35S/840 PSU W30L120 IP54	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W
07294300	CR150B LED35S/840 PSD W30L120 IP54	(0.38, 0.38) SDCM <4	88 lm/W	3500 lm	40 W

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