



# 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

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

<b>Operating temperature range</b>	CR250B: -20 to +40 °C CR150B: 0 to +40 °C
<b>Driver</b>	Built-in
<b>Power/Data supply</b>	Class II
<b>Mains voltage</b>	220-240 V/50-60 Hz
<b>Dimming</b>	DALI version available
<b>Material</b>	Housing: sheet steel, lacquered
<b>Colour</b>	White RAL9016
<b>Optical cover</b>	Clear glass + Polystyrene diffuser or PMMA diffuser
<b>Connection</b>	Screw terminal block + cable gland
<b>Maintenance</b>	CR250B: maintainance possible CR150B: sealed for life
<b>Installation</b>	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
<b>Accessories</b>	Surface-mounted brackets (CR250B, CR150B) Plaster ceiling bracket (CR150B) Safety cable (CR250B, CR150B)

## Versions



Cleanroom LED CR250B luminaire,  
module size 600x600 mm



Cleanroom LED CR250B luminaire,  
module size 300x1200 mm



Cleanroom LED CR150B luminaire,  
module size 600x600 mm



Cleanroom LED CR150B luminaire,  
module size 300x1200 mm

# Cleanroom LED CR250B

## Product details



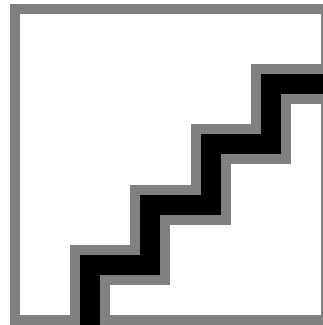
Cleanroom\_LED-  
CR250B\_W60L60-DP01



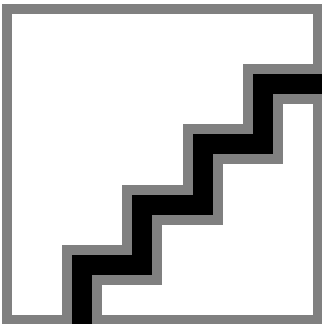
Cleanroom\_LED-  
CR250B\_W60L60-DP02



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 CR250B

## Product details



Cleanroom\_LED-  
CR150B\_W30L120\_CR150Z\_SMB-  
DP11



Cleanroom\_LED-  
CR150B\_W30L120\_PSD-DP05



Cleanroom\_LED-  
CR150B\_W30L120\_PSD-DP07

## Accessories

Bracket for surface mounting,  
module size 600x600 mm

Bracket for surface mounting,  
module size 300x1200 mm



Ordercode 07295000



Ordercode 07296700

Bracket for surface mounting,  
module size 600x600 mm

Bracket for surface mounting,  
module size 300x1200 mm



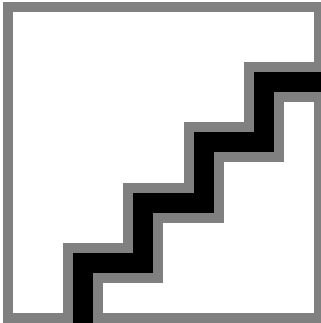
Ordercode 07297400



Ordercode 07298100

# Cleanroom LED CR250B

## Accessories



Bracket for surface mounting,  
plaster ceiling

Ordercode 07301899



Safety cable

Ordercode 07302599

### Application Conditions

Suitable for random switching Yes

### Operating and Electrical

Input Voltage 220-240 V

### 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 dim 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

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
07287500	CR250B LED35S/840 PSU W30L120 IP65	IK07	IP65
07288200	CR250B LED35S/840 PSD W30L120 IP65	IK07	IP65
07289900	CR250B LED55S/840 PSU W30L120 IP65	IK07	IP65
07290500	CR250B LED55S/840 PSD W30L120 IP65	IK07	IP65

# Cleanroom LED CR250B

Order Code	Full Product Name	Mech. impact	Ingress
		protection code	protection code
07291200	CR150B LED35S/840 PSU W60L60 IP54	IK03	IP54
07292900	CR150B LED35S/840 PSD W60L60 IP54	IK03	IP54

Order Code	Full Product Name	Mech. impact	Ingress
		protection code	protection code
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

## 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	Initial	Initial
			luminaire efficacy	luminous flux	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

Order Code	Full Product Name	Initial chromaticity	Initial LED	Initial	Initial
			luminaire efficacy	luminous flux	input power
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

## Cleanroom LED CR250B

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

