



Philips Cleanroom: a 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 Philips Cleanroom CR250B fixtures represents true value for money: the Philips LED engine delivers reliable, high-quality light, and the flexible mounting possibilities mean that this cleanroom LED lighting family can be used in a wide range of applications. These cleanroom luminaires are also compliant with all relevant standards (CE, EMC, RoHS).

Benefits

- Value-for-money investment
- Low maintenance costs 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 3,500 to 5,500 lm
- Works with different ceiling types
- Class II

Application

- Food production facilities and kitchens
- Hospitals and care centres
- Clean production areas

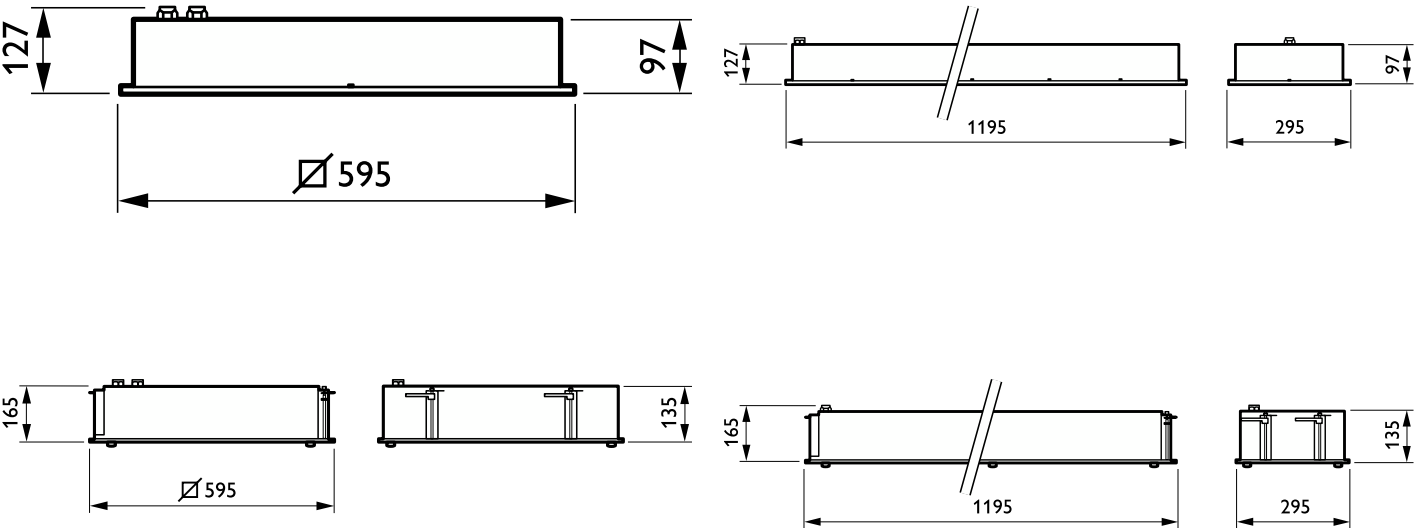
Cleanroom LED CR250B

Versions



Cleanroom LED-CR150B W30L120

Dimensional drawing



Product details



Cleanroom_LED-
CR250B_W60L60-DP01



Cleanroom_LED-
CR250B_W60L60-DP02

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Product details



Cleanroom_LED-
CR150B_W30L120_PSU-DP04



Cleanroom_LED-
CR150B_W30L120_PSD-DP05



Cleanroom_LED-CR150B-
PSU_W30L120_PSU-DP06



Cleanroom_LED-
CR150B_W30L120_PSD-DP07



Cleanroom_LED-CR250B_PSU-
DP08



Cleanroom_LED-
CR150B_W30L120_CR150Z_SMB-
DP11



Cleanroom_LED-
CR150B_W60L60_CR150Z_SMB-
DP12



Cleanroom_LED-
CR250B_W30L120_CR250Z_SMB-
DP13

Cleanroom LED CR250B

Product details



Cleanroom_LED-
CR250B_W60L60_CR250Z_SMB-
DP14

General Information	
Driver included	Yes
Light source replaceable	Yes
Number of gear units	Unit
Light Technical	
Correlated Colour Temperature (Nom)	4000 K
Colour rendering index (CRI)	>80
Number of light sources	2
Optic type	-
Operating and Electrical	
Protection class IEC	Safety class II
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Suitable for random switching	Yes
Mechanical and Housing	
Housing Colour	White
Approval and Application	
CE mark	Yes
ENEC mark	-
Flammability mark	For mounting on easily flammable surfaces
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-5%

General Information

Order Code	Full Product Name	Lamp family code
910503910175	CR150B LED35S/840 PSU W60L60 IP54	GRN35
910503910176	CR150B LED35S/840 PSD W60L60 IP54	GRN35
910503910177	CR150B LED35S/840 PSU W30L120 IP54	GRN35
910503910178	CR150B LED35S/840 PSD W30L120 IP54	GRN35
910503910168	CR250B LED35S/840 PSD W60L60 IP65	GRN35
910503910169	CR250B LED55S/840 PSU W60L60 IP65	GRN55
910503910170	CR250B LED55S/840 PSD W60L60 IP65	GRN55
910503910171	CR250B LED35S/840 PSU W30L120 IP65	GRN35
910503910172	CR250B LED35S/840 PSD W30L120 IP65	GRN35
910503910173	CR250B LED55S/840 PSU W30L120 IP65	GRN55
910503910174	CR250B LED55S/840 PSD W30L120 IP65	GRN55

Light Technical

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux
910503910175	CR150B LED35S/840 PSU W60L60 IP54	88 lm/W	3,500 lm
910503910176	CR150B LED35S/840 PSD W60L60 IP54	88 lm/W	3,500 lm

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux
910503910177	CR150B LED35S/840 PSU W30L120 IP54	88 lm/W	3,500 lm
910503910178	CR150B LED35S/840 PSD W30L120 IP54	88 lm/W	3,500 lm

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Order Code	Full Product Name	Luminous efficacy	
		(rated) (nom.)	Luminous Flux
910503910168	CR250B LED35S/840 PSD W60L60 IP65	88 lm/W	3,500 lm
910503910169	CR250B LED55S/840 PSU W60L60 IP65	87 lm/W	5,500 lm
910503910170	CR250B LED55S/840 PSD W60L60 IP65	87 lm/W	5,500 lm
910503910171	CR250B LED35S/840 PSU W30L120 IP65	88 lm/W	3,500 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
910503910175	CR150B LED35S/840 PSU W60L60 IP54	40 W
910503910176	CR150B LED35S/840 PSD W60L60 IP54	40 W
910503910177	CR150B LED35S/840 PSU W30L120 IP54	40 W
910503910178	CR150B LED35S/840 PSD W30L120 IP54	40 W
910503910168	CR250B LED35S/840 PSD W60L60 IP65	40 W
910503910169	CR250B LED55S/840 PSU W60L60 IP65	63 W

Controls and Dimming

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
910503910175	CR150B LED35S/840 PSU W60L60 IP54	No	-
910503910176	CR150B LED35S/840 PSD W60L60 IP54	Yes	1%
910503910177	CR150B LED35S/840 PSU W30L120 IP54	No	-
910503910178	CR150B LED35S/840 PSD W30L120 IP54	Yes	1%
910503910168	CR250B LED35S/840 PSD W60L60 IP65	Yes	1%
910503910169	CR250B LED55S/840 PSU W60L60 IP65	No	-

Mechanical and Housing

Order Code	Full Product Name	Optical cover type	Mech.	
			impact protection code	Ingress protection code
910503910175	CR150B LED35S/840 PSU W60L60 IP54	Polymethyl methacrylate bowl/cover	IK03	IP54
910503910176	CR150B LED35S/840 PSD W60L60 IP54	Polymethyl methacrylate bowl/cover	IK03	IP54
910503910177	CR150B LED35S/840 PSU W30L120 IP54	Polymethyl methacrylate bowl/cover	IK03	IP54
910503910178	CR150B LED35S/840 PSD W30L120 IP54	Polymethyl methacrylate bowl/cover	IK03	IP54

Order Code	Full Product Name	Luminous efficacy	
		(rated) (nom.)	Luminous Flux
910503910172	CR250B LED35S/840 PSD W30L120 IP65	88 lm/W	3,500 lm
910503910173	CR250B LED55S/840 PSU W30L120 IP65	87 lm/W	5,500 lm
910503910174	CR250B LED55S/840 PSD W30L120 IP65	87 lm/W	5,500 lm

Order Code	Full Product Name	Power Consumption
910503910170	CR250B LED55S/840 PSD W60L60 IP65	63 W
910503910171	CR250B LED35S/840 PSU W30L120 IP65	40 W
910503910172	CR250B LED35S/840 PSD W30L120 IP65	40 W
910503910173	CR250B LED55S/840 PSU W30L120 IP65	63 W
910503910174	CR250B LED55S/840 PSD W30L120 IP65	63 W

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
910503910170	CR250B LED55S/840 PSD W60L60 IP65	Yes	1%
910503910171	CR250B LED35S/840 PSU W30L120 IP65	No	-
910503910172	CR250B LED35S/840 PSD W30L120 IP65	Yes	1%
910503910173	CR250B LED55S/840 PSU W30L120 IP65	No	-
910503910174	CR250B LED55S/840 PSD W30L120 IP65	Yes	1%

Order Code	Full Product Name	Optical cover type	Mech.	
			impact protection code	Ingress protection code
910503910168	CR250B LED35S/840 PSD W60L60 IP65	Clear glass with diffuser foil	IK07	IP65
910503910169	CR250B LED55S/840 PSU W60L60 IP65	Clear glass with diffuser foil	IK07	IP65
910503910170	CR250B LED55S/840 PSD W60L60 IP65	Clear glass with diffuser foil	IK07	IP65
910503910171	CR250B LED35S/840 PSU W30L120 IP65	Clear glass with diffuser foil	IK07	IP65

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Order Code	Full Product Name	Optical cover type	Mech.	Ingress
			impact protection code	protection code
910503910172	CR250B LED35S/840 PSD W30L120 IP65	Clear glass with diffuser foil	IK07	IP65
910503910173	CR250B LED55S/840 PSU W30L120 IP65	Clear glass with diffuser foil	IK07	IP65

Order Code	Full Product Name	Optical cover type	Mech.	Ingress
			impact protection code	protection code
910503910174	CR250B LED55S/840 PSD W30L120 IP65	Clear glass with diffuser foil	IK07	IP65

Approval and Application

Order Code	Full Product Name	Ambient	Glow-wire test
		temperature range	
910503910175	CR150B LED35S/840 PSU W60L60 IP54	0 to +40 °C	Temperature 650 °C, duration 30 s
910503910176	CR150B LED35S/840 PSD W60L60 IP54	0 to +40 °C	Temperature 650 °C, duration 30 s
910503910177	CR150B LED35S/840 PSU W30L120 IP54	0 to +40 °C	Temperature 650 °C, duration 30 s
910503910178	CR150B LED35S/840 PSD W30L120 IP54	0 to +40 °C	Temperature 650 °C, duration 30 s
910503910168	CR250B LED35S/840 PSD W60L60 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s
910503910169	CR250B LED55S/840 PSU W60L60 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s

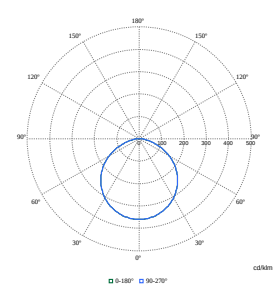
Order Code	Full Product Name	Ambient	Glow-wire test
		temperature range	
910503910170	CR250B LED55S/840 PSD W60L60 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s
910503910171	CR250B LED35S/840 PSU W30L120 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s
910503910172	CR250B LED35S/840 PSD W30L120 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s
910503910173	CR250B LED55S/840 PSU W30L120 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s
910503910174	CR250B LED55S/840 PSD W30L120 IP65	-20 to +40 °C	Temperature 850 °C, duration 30 s

Initial Performance (IEC Compliant)

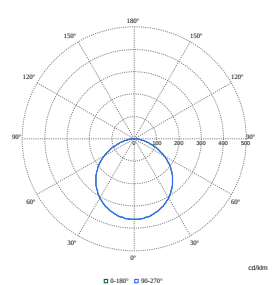
Order Code	Full Product Name	Initial chromaticity
910503910175	CR150B LED35S/840 PSU W60L60 IP54	(0.38, 0.38) SDCM <4
910503910176	CR150B LED35S/840 PSD W60L60 IP54	(0.38, 0.38) SDCM <4
910503910177	CR150B LED35S/840 PSU W30L120 IP54	(0.38, 0.38) SDCM <4
910503910178	CR150B LED35S/840 PSD W30L120 IP54	(0.38, 0.38) SDCM <4
910503910168	CR250B LED35S/840 PSD W60L60 IP65	(0.38, 0.38) SDCM <4
910503910169	CR250B LED55S/840 PSU W60L60 IP65	(0.38, 0.38) SDCM <3

Order Code	Full Product Name	Initial chromaticity
910503910170	CR250B LED55S/840 PSD W60L60 IP65	(0.38, 0.38) SDCM <3
910503910171	CR250B LED35S/840 PSU W30L120 IP65	(0.38, 0.38) SDCM <4
910503910172	CR250B LED35S/840 PSD W30L120 IP65	(0.38, 0.38) SDCM <4
910503910173	CR250B LED55S/840 PSU W30L120 IP65	(0.38, 0.38) SDCM <3
910503910174	CR250B LED55S/840 PSD W30L120 IP65	(0.38, 0.38) SDCM <3

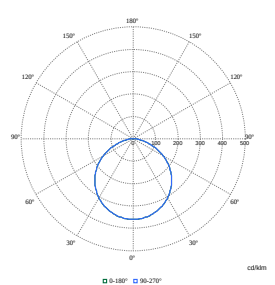
Polar Wide Diagrams



Polar Normal (separate) - null - 910503910172



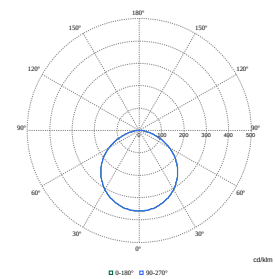
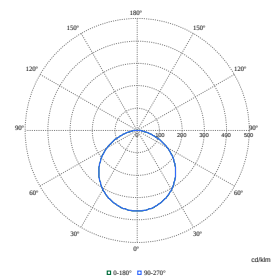
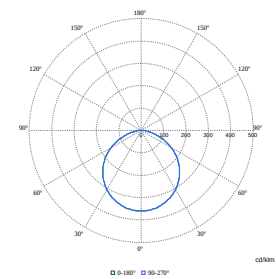
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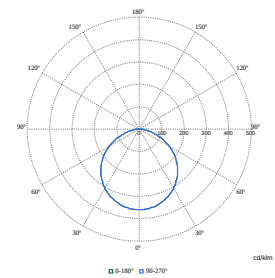
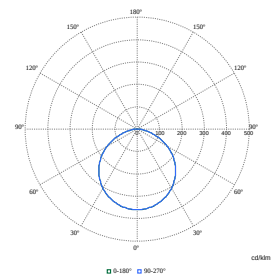
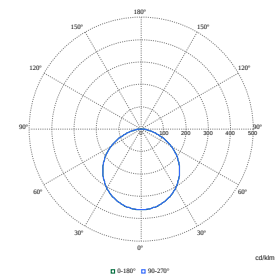
Polar Wide Diagrams



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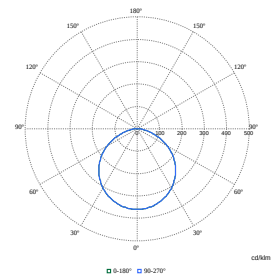
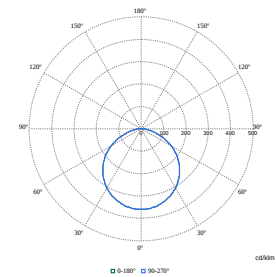
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Polar Normal (separate) - null - 910503910168

Polar Normal (separate) - null - 910503910176

Polar Normal (separate) - null - 910503910170



Polar Normal (separate) - null - 910503910174

Polar Normal (separate) - null - 910503910173

