PHILIPS

Cleanroom LED CR250B

CR250B



Cleanroom: uniform, reliable, value-for-money solution

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 represent 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

Applications

- Food production facilities and kitchens
- Hospitals and Care Centers
- Clean production areas

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

Versions

Cleanroom LED-CR150B
W60L60

Cleanroom LED-CR150B
W30L120



Cleanroom LED-CR250B
W60L60



Cleanroom LED-CR250B
W30L120

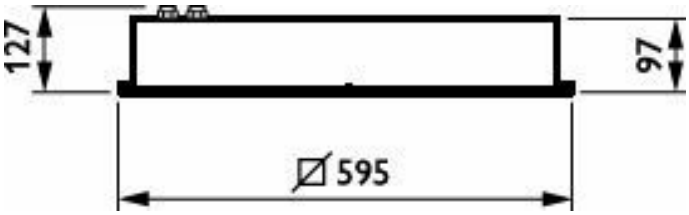


Cleanroom LED-CR250B
W30L120 CR250Z SMB-CP

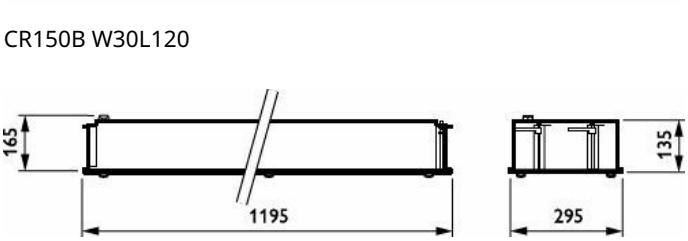


Cleanroom LED-CR250B
W60L60 CR250Z SMB-CP

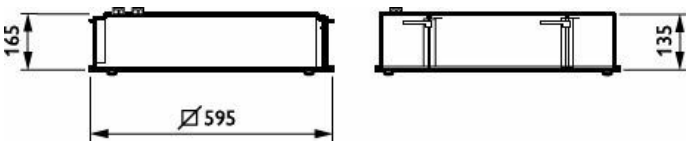
Dimensional drawing



CR150B W60L60



CR150B W30L120



CR250B W60L60

CR250B W30L120

Product details



Cleanroom_LED-CR250B_W60L60-DP01



Cleanroom_LED-CR250B_W60L60-DP02



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_W60L60_CR250Z_SMB-DP14

General Information

Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Service tag	No

Light Technical

Correlated Color Temperature (Nom)	4000 K
Color rendering index (CRI)	>80
Number of light sources	2
Optic type	-

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Suitable for random switching	Yes
Protection class IEC	Safety class II

Controls and Dimming

Maximum dim level	1%

Mechanical and Housing

Housing Color	White

Approval and Application

Flammability mark	For mounting on easily flammable surfaces
CE mark	Yes
ENEC mark	-

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
910503910167	CR250B LED35S/840 PSU W60L60 IP65	GRN35

Order Code	Full Product Name	Lamp family code
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
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	-
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	-
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	-
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	-

Light Technical

Order Code	Full Product Name	Luminous Flux	Luminous Efficacy (rated) (Nom)
910503910175	CR150B LED35S/840 PSU W60L60 IP54	3,500 lm	88 lm/W
910503910176	CR150B LED35S/840 PSD W60L60 IP54	3,500 lm	88 lm/W
910503910177	CR150B LED35S/840 PSU W30L120 IP54	3,500 lm	88 lm/W
910503910178	CR150B LED35S/840 PSD W30L120 IP54	3,500 lm	88 lm/W
910503910167	CR250B LED35S/840 PSU W60L60 IP65	3,500 lm	88 lm/W
910503910168	CR250B LED35S/840 PSD W60L60 IP65	3,500 lm	88 lm/W
910503910169	CR250B LED55S/840 PSU W60L60 IP65	5,500 lm	87 lm/W
910503910170	CR250B LED55S/840 PSD W60L60 IP65	5,500 lm	87 lm/W
910503910171	CR250B LED35S/840 PSU W30L120 IP65	3,500 lm	88 lm/W
910503910172	CR250B LED35S/840 PSD W30L120 IP65	3,500 lm	88 lm/W
910503910173	CR250B LED55S/840 PSU W30L120 IP65	5,500 lm	87 lm/W
910503910174	CR250B LED55S/840 PSD W30L120 IP65	5,500 lm	87 lm/W
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	3,500 lm	88 lm/W
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	3,500 lm	88 lm/W
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	3,500 lm	88 lm/W
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	3,500 lm	88 lm/W

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
910503910167	CR250B LED35S/840 PSU W60L60 IP65	40 W
910503910168	CR250B LED35S/840 PSD W60L60 IP65	40 W
910503910169	CR250B LED55S/840 PSU W60L60 IP65	63 W

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
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	40 W
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	40 W
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	40 W
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	40 W

Controls and Dimming

Order Code	Full Product Name	Dimmable
910503910175	CR150B LED35S/840 PSU W60L60 IP54	No
910503910176	CR150B LED35S/840 PSD W60L60 IP54	Yes
910503910177	CR150B LED35S/840 PSU W30L120 IP54	No
910503910178	CR150B LED35S/840 PSD W30L120 IP54	Yes
910503910167	CR250B LED35S/840 PSU W60L60 IP65	No
910503910168	CR250B LED35S/840 PSD W60L60 IP65	Yes
910503910169	CR250B LED55S/840 PSU W60L60 IP65	No
910503910170	CR250B LED55S/840 PSD W60L60 IP65	Yes
910503910171	CR250B LED35S/840 PSU W30L120 IP65	No
910503910172	CR250B LED35S/840 PSD W30L120 IP65	Yes
910503910173	CR250B LED55S/840 PSU W30L120 IP65	No
910503910174	CR250B LED55S/840 PSD W30L120 IP65	Yes
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	No
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	Yes
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	No
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	Yes

Mechanical and Housing

Order Code	Full Product Name	Ingress protection code	Mech. impact protection code	Optical cover type
910503910175	CR150B LED35S/840 PSU W60L60 IP54	IP54	IK03	Polymethyl methacrylate bowl/cover
910503910176	CR150B LED35S/840 PSD W60L60 IP54	IP54	IK03	Polymethyl methacrylate bowl/cover
910503910177	CR150B LED35S/840 PSU W30L120 IP54	IP54	IK03	Polymethyl methacrylate bowl/cover
910503910178	CR150B LED35S/840 PSD W30L120 IP54	IP54	IK03	Polymethyl methacrylate bowl/cover
910503910167	CR250B LED35S/840 PSU W60L60 IP65	IP65	IK07	Clear glass with diffuser foil
910503910168	CR250B LED35S/840 PSD W60L60 IP65	IP65	IK07	Clear glass with diffuser foil
910503910169	CR250B LED55S/840 PSU W60L60 IP65	IP65	IK07	Clear glass with diffuser foil
910503910170	CR250B LED55S/840 PSD W60L60 IP65	IP65	IK07	Clear glass with diffuser foil
910503910171	CR250B LED35S/840 PSU W30L120 IP65	IP65	IK07	Clear glass with diffuser foil

Order Code	Full Product Name	Ingress protection code	Mech. impact protection code	Optical cover type
910503910172	CR250B LED35S/840 PSD W30L120 IP65	IP65	IK07	Clear glass with diffuser foil
910503910173	CR250B LED55S/840 PSU W30L120 IP65	IP65	IK07	Clear glass with diffuser foil
910503910174	CR250B LED55S/840 PSD W30L120 IP65	IP65	IK07	Clear glass with diffuser foil
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	IP65	IK07	-
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	IP65	IK07	-
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	IP65	IK07	-
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	IP65	IK07	-

Approval and Application

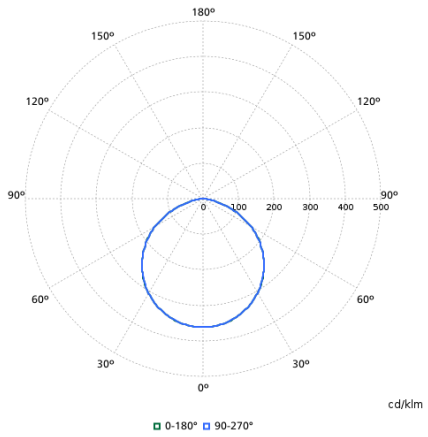
Order Code	Full Product Name	Glow-wire test	Ambient temperature range
910503910175	CR150B LED35S/840 PSU W60L60 IP54	Temperature 650 °C, duration 30 s	0 to +40 °C
910503910176	CR150B LED35S/840 PSD W60L60 IP54	Temperature 650 °C, duration 30 s	0 to +40 °C
910503910177	CR150B LED35S/840 PSU W30L120 IP54	Temperature 650 °C, duration 30 s	0 to +40 °C
910503910178	CR150B LED35S/840 PSD W30L120 IP54	Temperature 650 °C, duration 30 s	0 to +40 °C
910503910167	CR250B LED35S/840 PSU W60L60 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910168	CR250B LED35S/840 PSD W60L60 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910169	CR250B LED55S/840 PSU W60L60 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910170	CR250B LED55S/840 PSD W60L60 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910171	CR250B LED35S/840 PSU W30L120 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910172	CR250B LED35S/840 PSD W30L120 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910173	CR250B LED55S/840 PSU W30L120 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
910503910174	CR250B LED55S/840 PSD W30L120 IP65	Temperature 850 °C, duration 30 s	-20 to +40 °C
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	Temperature 850 °C, duration 30 s	-20 to +40 °C
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	Temperature 850 °C, duration 30 s	-20 to +40 °C
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	Temperature 850 °C, duration 30 s	-20 to +40 °C
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	Temperature 850 °C, duration 30 s	-20 to +40 °C

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
910503910167	CR250B LED35S/840 PSU W60L60 IP65	(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
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

Order Code	Full Product Name	Initial chromaticity
910503910174	CR250B LED55S/840 PSD W30L120 IP65	(0.38, 0.38) SDCM <3
912401483081	CR250B LED35S/840 PSU W30L120 IP65 OC	(0.38, 0.38) SDCM <3
912401483082	CR250B LED35S/840 PSD W30L120 IP65 OC	(0.38, 0.38) SDCM <3
912401483079	CR250B LED35S/840 PSU W60L60 IP65 OC	(0.38, 0.38) SDCM <3
912401483080	CR250B LED35S/840 PSD W60L60 IP65 OC	(0.38, 0.38) SDCM <3

Polar normal diagrams



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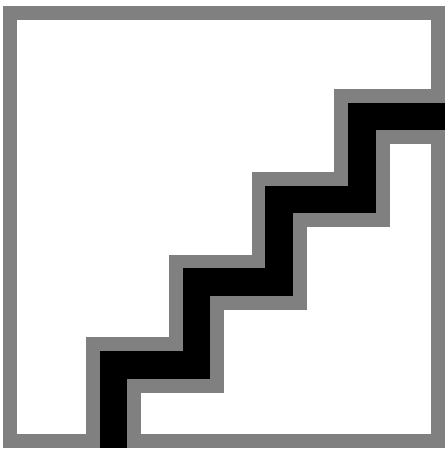

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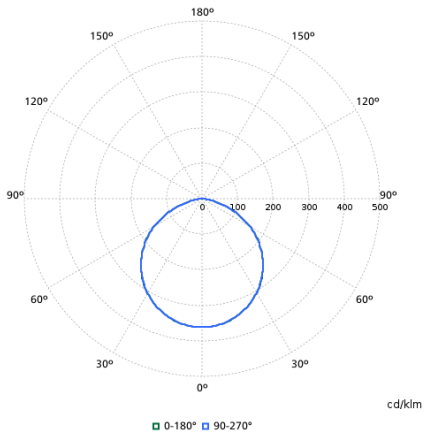

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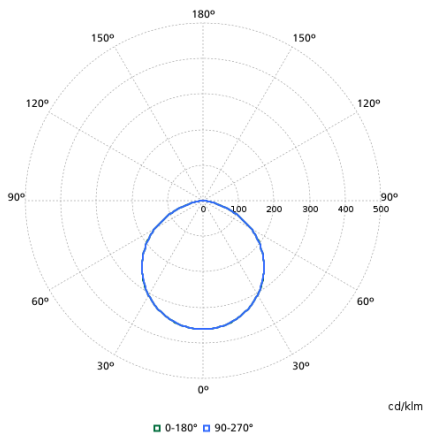

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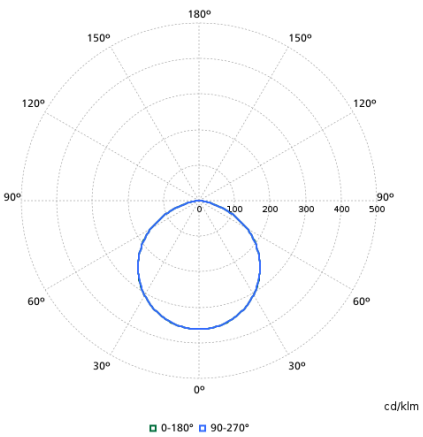

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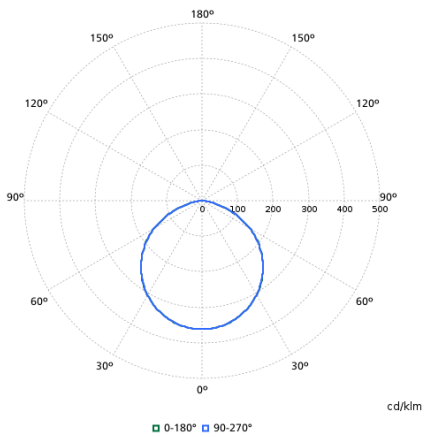

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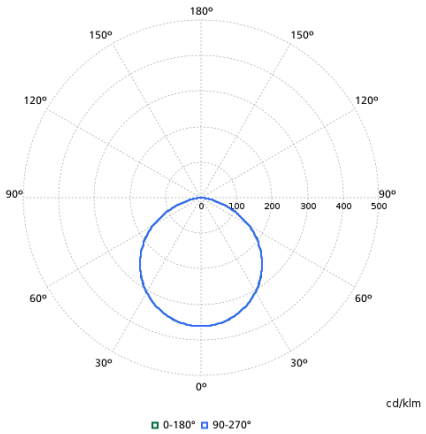

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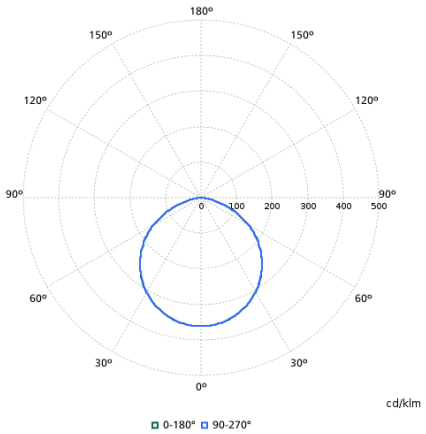

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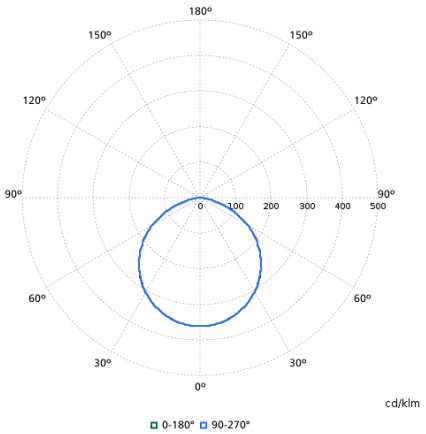

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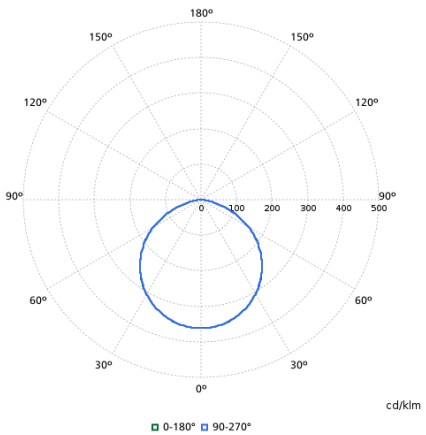

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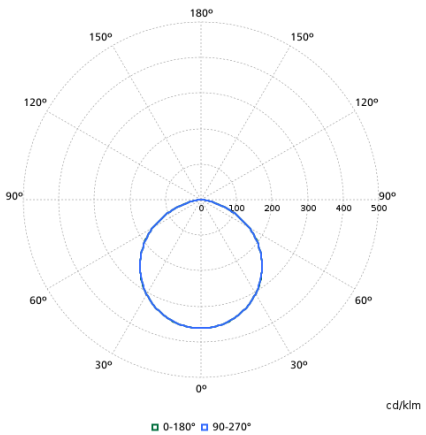

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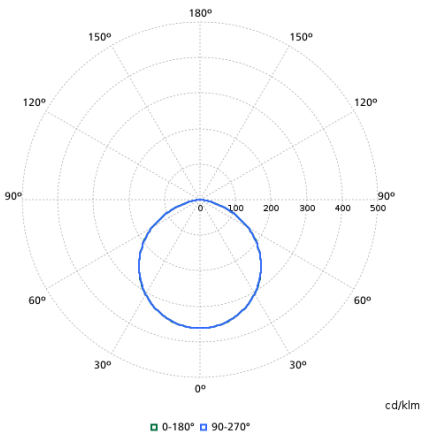

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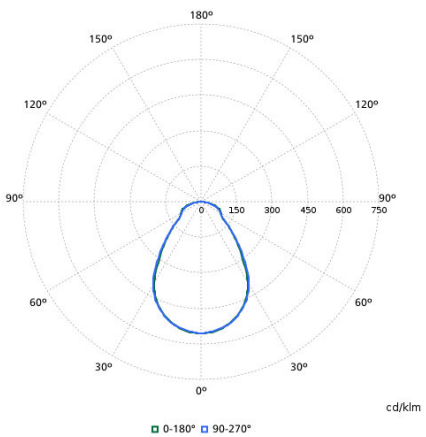
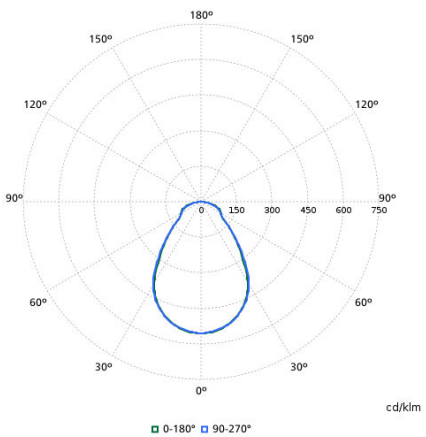


CR250B LED35S/840 PSU W60L60 IP65
OC 912401483079



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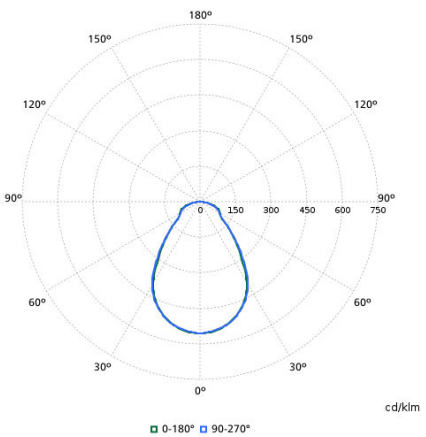
OC 912401483080



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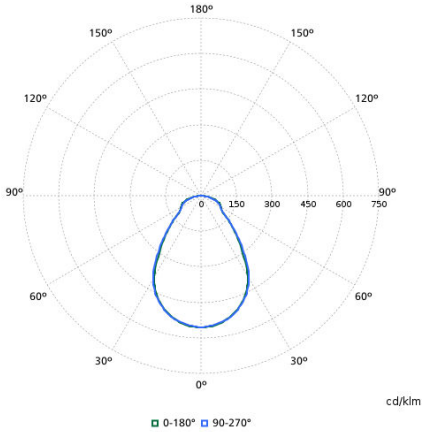

CR250B LED35S/840 PSD W30L120 IP65
OC 912401483082

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