



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



Bracket for surface mounting,
module size 300x1200 mm

Ordercode 07296700



Bracket for surface mounting,
module size 600x600 mm

Ordercode 07297400



Bracket for surface mounting,
module size 300x1200 mm

Ordercode 07298100



CR150Z

Ordercode 07301899



CR250Z

Ordercode 07302599



Cleanroom LED CR250B

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 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 |

Cleanroom LED CR250B

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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