



# Cleanroom: 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 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

### 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 Care Centers
- Clean production areas

# Cleanroom LED CR250B

## Versions

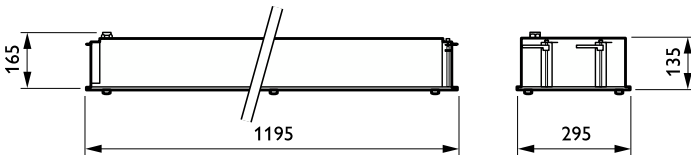
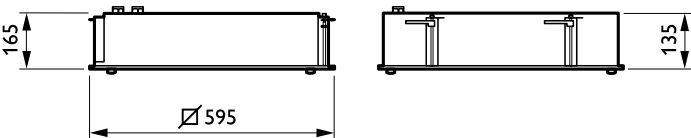
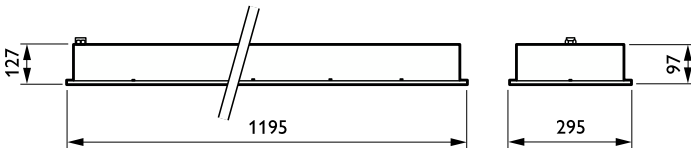
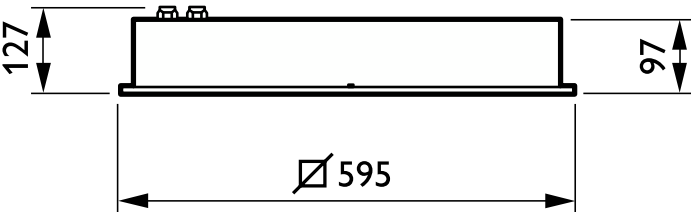


Cleanroom LED-CR150B W60L60



Cleanroom LED-CR150B W30L120

## Dimensional drawing



## Product details



Cleanroom\_LED-  
CR250B\_W60L60-DP01



Cleanroom\_LED-  
CR250B\_W60L60-DP02

# Cleanroom LED CR250B

## 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                | 1 unit                                    |
| Light Technical                     |                                           |
| Correlated Color Temperature (Nom)  | 4000 K                                    |
| Color 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 Color                       | 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            |
| 910503910167 | CR250B LED35S/840 PSU W60L60 IP65  | 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      |

# Cleanroom LED CR250B

| Order Code   | Full Product Name                 | Luminous Efficacy |               |
|--------------|-----------------------------------|-------------------|---------------|
|              |                                   | (rated) (Nom)     | Luminous Flux |
| 910503910167 | CR250B LED35S/840 PSU W60L60 IP65 | 88 lm/W           | 3,500 lm      |
| 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      |

## 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              |

## 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%    |
| 910503910167 | CR250B LED35S/840 PSU W60L60 IP65  | No          | -     |
| 910503910168 | CR250B LED35S/840 PSD W60L60 IP65  | Yes         | 1%    |

## 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 |
| 910503910171 | CR250B LED35S/840 PSU W30L120 IP65 | 88 lm/W           | 3,500 lm      |
| 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 |
|--------------|------------------------------------|-------------------|
| 910503910169 | CR250B LED55S/840 PSU W60L60 IP65  | 63 W              |
| 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 |
| 910503910169 | CR250B LED55S/840 PSU W60L60 IP65  | No          | -     |
| 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 |
| 910503910167 | CR250B LED35S/840 PSU W60L60 IP65 | Clear glass with diffuser foil | IK07                   | IP65                    |
| 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                    |

## Cleanroom LED CR250B

| Order Code   | Full Product Name                        | Optical cover type                | Mech. impact protection code | Ingress protection code |
|--------------|------------------------------------------|-----------------------------------|------------------------------|-------------------------|
| 910503910171 | CR250B<br>LED35S/840 PSU<br>W30L120 IP65 | Clear glass with<br>diffuser foil | IK07                         | IP65                    |
| 910503910172 | CR250B<br>LED35S/840 PSD<br>W30L120 IP65 | Clear glass with<br>diffuser foil | IK07                         | IP65                    |

| Order Code   | Full Product Name                        | Optical cover type                | Mech. impact protection code | Ingress protection code |
|--------------|------------------------------------------|-----------------------------------|------------------------------|-------------------------|
| 910503910173 | CR250B<br>LED55S/840 PSU<br>W30L120 IP65 | Clear glass with<br>diffuser foil | IK07                         | IP65                    |
| 910503910174 | CR250B<br>LED55S/840 PSD<br>W30L120 IP65 | Clear glass with<br>diffuser foil | IK07                         | IP65                    |

### Approval and Application

| Order Code   | Full Product Name                     | Ambient temperature range | Glow-wire test                       |
|--------------|---------------------------------------|---------------------------|--------------------------------------|
| 910503910175 | CR150B LED35S/840<br>PSU W60L60 IP54  | 0 to +40 °C               | Temperature 650 °C,<br>duration 30 s |
| 910503910176 | CR150B LED35S/840<br>PSD W60L60 IP54  | 0 to +40 °C               | Temperature 650 °C,<br>duration 30 s |
| 910503910177 | CR150B LED35S/840<br>PSU W30L120 IP54 | 0 to +40 °C               | Temperature 650 °C,<br>duration 30 s |
| 910503910178 | CR150B LED35S/840<br>PSD W30L120 IP54 | 0 to +40 °C               | Temperature 650 °C,<br>duration 30 s |
| 910503910167 | CR250B LED35S/840<br>PSU W60L60 IP65  | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |
| 910503910168 | CR250B LED35S/840<br>PSD W60L60 IP65  | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |

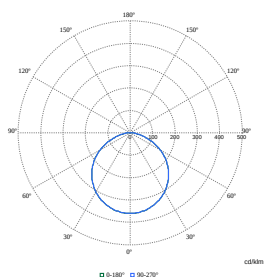
| Order Code   | Full Product Name                     | Ambient temperature range | Glow-wire test                       |
|--------------|---------------------------------------|---------------------------|--------------------------------------|
| 910503910169 | CR250B LED55S/840<br>PSU W60L60 IP65  | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |
| 910503910170 | CR250B LED55S/840<br>PSD W60L60 IP65  | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |
| 910503910171 | CR250B LED35S/840<br>PSU W30L120 IP65 | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |
| 910503910172 | CR250B LED35S/840<br>PSD W30L120 IP65 | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |
| 910503910173 | CR250B LED55S/840<br>PSU W30L120 IP65 | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |
| 910503910174 | CR250B LED55S/840<br>PSD W30L120 IP65 | -20 to +40 °C             | Temperature 850 °C,<br>duration 30 s |

### Initial Performance (IEC Compliant)

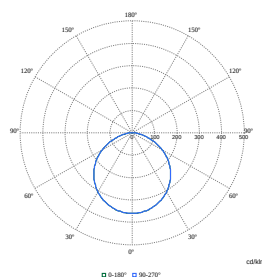
| Order Code   | Full Product Name                  | Initial chromaticity |
|--------------|------------------------------------|----------------------|
| 910503910175 | CR150B LED35S/840 PSU W60L60 IP54  | (0.38, 0.38) SDCM <4 |
| 910503910176 | CR150B LED35S/840 PSD W60L60 IP54  | (0.38, 0.38) SDCM <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 |
| 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 |

| Order Code   | Full Product Name                  | Initial chromaticity |
|--------------|------------------------------------|----------------------|
| 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 |
| 910503910174 | CR250B LED55S/840 PSD W30L120 IP65 | (0.38, 0.38) SDCM <3 |

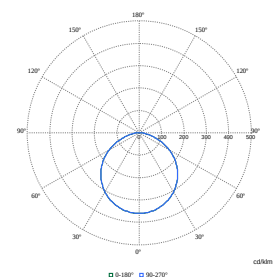
### Polar Wide Diagrams



Polar Normal (separate) - null - 910503910172



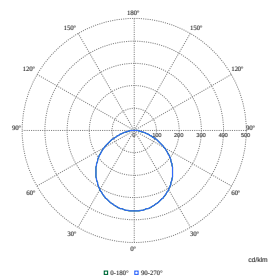
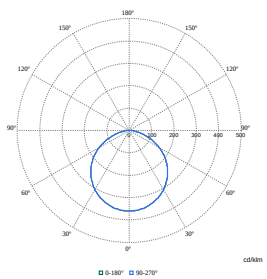
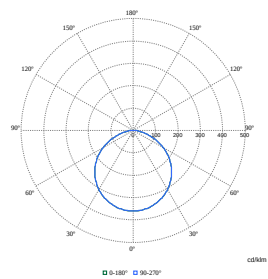
Polar Normal (separate) - null - 910503910169



Polar Normal (separate) - null - 910503910175

# Cleanroom LED CR250B

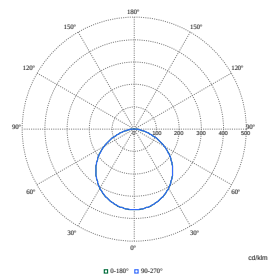
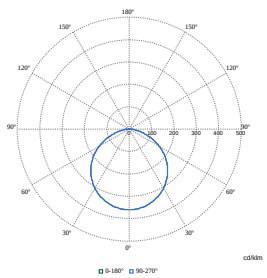
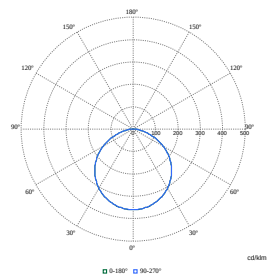
## Polar Wide Diagrams



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Polar Normal (separate) - null - 910503910171

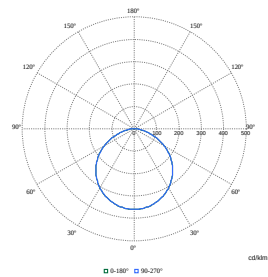
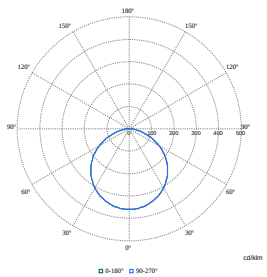
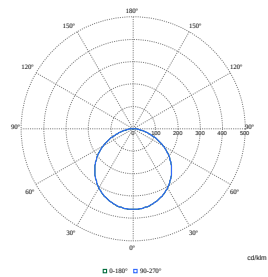
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Polar Normal (separate) - null - 910503910168

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Polar Normal (separate) - null - 910503910174

Polar Normal (separate) - null - 910503910167

Polar Normal (separate) - null - 910503910173

