



# LED cleanroom – hygienic, efficient solution offering excellent vision at work

## Cleanroom LED

Customers operating highly hygienic facilities – in hospitals, laboratories, and certain production environments, e.g. in the food industry – require special IP65, easy-to-clean, dust-free luminaires that meet all applicable lighting requirements and norms. With the latest LED engine on board, this LED cleanroom luminaire represents the ideal solution, delivering market-leading energy performance – far beyond fluorescent solutions – over 50,000 hours of maintenance-free operation. This means extremely low operational cost over the total lifetime of the luminaire, and so an excellent financial return on investment. The luminaire's high color rendering properties ensure the top-class optical performance required in e.g. clinical areas in hospitals and other areas where it is crucial to be able to distinguish between colors, such as in the graphical and clothing industries.

### Benefits

- Excellent functional cleanroom performance
- Market-leading energy efficiency; extremely low operational cost over total lifetime
- Excellent quality of light with high color rendering

# Cleanroom LED

## Features

- Latest LED engine
- IP65
- ISO class 2-9 Fraunhofer-certified
- CRI 90
- Push-in connector: connection without opening the luminaire

## Application

- Hygienic areas in hospitals and laboratories
- Production facilities in the clothing industry
- Graphic design studios

## Specifications

|                                     |  |                                    |  |
|-------------------------------------|--|------------------------------------|--|
| <b>Type</b>                         | CR434B (lay-in, 596 x 596 / 1196 x 296 mm version)<br>CR444B (lay-out, 612 x 612 / 1212 x 312 mm version)<br>CR436B (lay-in, 621 x 621 / 1246 x 308 mm version)<br>CR446B (lay-out, 637 x 637 / 1262x324 mm version)   | <b>Median useful life</b>          | 25,000 hours   |
| <b>Ceiling type</b>                 | Exposed T-bar ceiling<br>Plaster (board) ceiling   | <b>L90B50</b>                      |  |
| <b>Ceiling grid</b>                 | Module size in length: 300 and 600 mm<br>Module size in length: 312.5 and 625 mm   | <b>Driver failure rate</b>         | 1% per 5000 hours  |
| <b>Light source</b>                 | Replaceable LED module   | <b>Average ambient temperature</b> | +25 °C   |
| <b>Power (+/-10%)</b>               | LED48: 49.5 W<br>LED88: 80 W   | <b>Operating temperature range</b> | -20 to +35°C   |
| <b>Luminous flux</b>                | Square LED48: 3700 lm (3000 K) or 3500 lm (4000 K) (depending type)<br>Square LED88: 6200 lm (3000 K) or 5700 lm (4000 K) (depending type)<br>Rectangular LED88: 6300 lm (3000 K) or 5700 lm (4000 K) (depending type) | <b>Driver</b>                      | Built-in   |
| <b>Correlated Color Temperature</b> | 3000 or 4000 K   | <b>Mains voltage</b>               | 220-240 V / 50-60 Hz   |
| <b>Color Rendering Index</b>        | > 80 (3000 and 4000 K)<br>> 90 (4000 K)  | <b>Dimming</b>                     | Touch-dim or DALI  |
| <b>Median useful life</b>           | 70,000 hours   | <b>Material</b>                    | Housing: sheet steel, laquered<br>Cover: glass, tempered<br>Internal optic: aluminum<br>Heatsink: aluminum sheet steel   |
| <b>L70B50</b>                       |  | <b>Color</b>                       | White RAL 9003   |
| <b>Median useful life</b>           | 50,000 hours   | <b>Optical cover</b>               | AC-MLO   |
| <b>L80B50</b>                       |  | <b>Connection</b>                  | Push-in connector  |
|                                     |  | <b>Maintenance</b>                 | No internal cleaning required  |
|                                     |  | <b>Installation</b>                | Lay in: fixation with spring fastener<br>Lay out: fixation with bolt and nuts<br>No through-wiring<br>Installation without removing light source and optical cover (not in case of plaster-ceiling versions) |
|                                     |  | <b>Accessories</b>                 | Safety cable   |

# Cleanroom LED

## Versions



Cleanroom LED CR434B recessed luminaire

## Product details



Front view



Access to the optics, lamps and gear

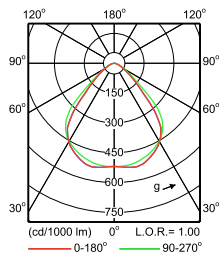
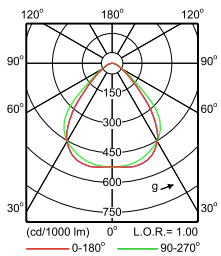


IPDP\_CR434Bi\_0023-Detail photo



Cleanroom LED CR434B recessed luminaire

## Polar Wide Diagrams



IFPS\_CR434B W30L120 1xLED88/840 AC-MLO-Polar Normal (separate)

IFPS\_CR434B W30L120 1xLED88/940 AC-MLO-Polar Normal (separate)

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