



Cleanroom LED – hygienic and efficient

Cleanroom LED

Customers operating highly hygienic facilities require special IP65, easy-to-clean, dust-free luminaires that meet all lighting requirements and norms. Moreover, to ensure the integrity of these areas (and stay within budget), they also need to minimize costly downtime and maintenance. 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 colour rendering properties ensure the top class optical performance required in e.g. clinical areas in hospitals.

Benefits

- Excellent functional cleanroom performance
- Market-leading energy efficiency; extremely low operational cost over total lifetime
- Excellent quality of light with high colour rendering CRI90 versions

Features

- IP65 (Square)/IP64 (Rectangle)
- Air Cleanliness Class 1 (according to ISO 14644-1)
- CRI 90 version
- Push-in connector: connection without opening the luminaire
- Office Compliant (UGR <19)
- 3Hour Emergency options

Application

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

Cleanroom LED

Specifications

| | |
|--------------------------------------|--|
| Type | CR434B (lay-in, 596 x 596 / 1196 x 296 mm version) |
| Ceiling type | Exposed T-bar ceiling Plaster (board) ceiling |
| Ceiling grid | Module size in length: 300 and 600 mm |
| Light source | Replaceable LED module |
| Power (+/-10%) | LED48: 49 W LED88: 77 W |
| Luminous flux | Square LED48: 3600 lm (3000 K) or 3900 lm (4000 K) (depending type) Square LED88: 6000 lm (3000 K) or 6300 lm (4000 K) (depending type) Rectangular LED88: 6000 lm (3000 K) or 6300 lm (4000 K) (depending type) |
| Correlated Colour Temperature | 3000 or 4000 K |
| Colour Rendering Index | > 80 |
| Median useful life L70B50 | 70,000 hours |
| Median useful life L80B50 | 50,000 hours |
| Median useful life L90B50 | 25,000 hours |

| | |
|------------------------------------|--|
| Driver failure rate | 1% per 5000 hours |
| Average ambient temperature | +25 °C |
| Operating temperature range | -20 to +35°C |
| Driver | Philips Xitanium |
| Mains voltage | 220-240 V / 50-60 Hz |
| Dimming | Touch-dim or DALI |
| Material | Housing: sheet steel, laquerred Cover: glass, tempered Internal optic: aluminium Heatsink: aluminium sheet steel |
| Colour | White RAL 9003 |
| Optical cover | AC-MLO |
| Connection | Push-in connector |
| Maintenance | No internal cleaning required |
| Installation | Lay in: fixation with spring fastener Lay out: fixation with bolt and nuts No through-wiring Installation without removing light source and optical cover (not in case of plaster-ceiling versions) |
| Accessories | Safety cable |

Product details

IPDP_CR434Bi_0001-Detail photo



IPDP_CR434Bi_0005-Detail photo



IPDP_CR434Bi_0023-Detail photo



Product details

IPDP_CR434Bi_0011-Detail photo

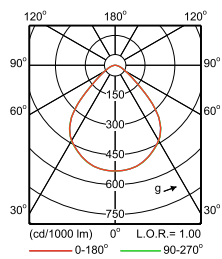


IPDP_CR434Bi_0013-Detail photo

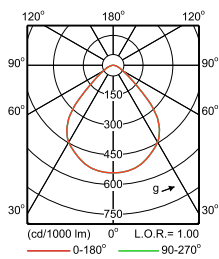


IPDP_CR434Bi_0017-Detail photo

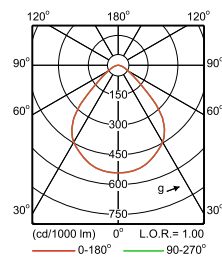
Polar Wide Diagrams



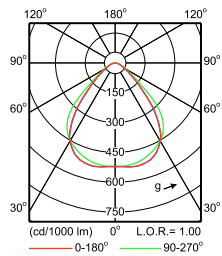
IPDP_CR434B W60L60 1xLED88/830 AC-MLO-Polar Normal (separate)



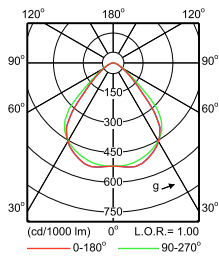
IPDP_CR434B W60L60 1xLED48/940 AC-MLO-Polar Normal (separate)



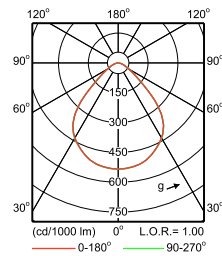
IPDP_CR434B W60L60 1xLED88/940 AC-MLO-Polar Normal (separate)



IPDP_CR434B W30L120 1xLED88/840 AC-MLO-Polar Normal (separate)

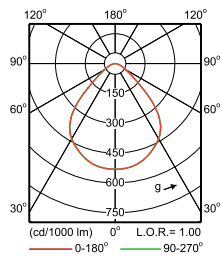


IPDP_CR434B W30L120 1xLED88/940 AC-MLO-Polar Normal (separate)

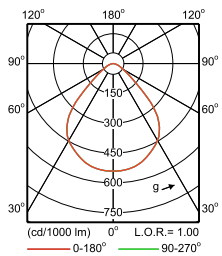


IPDP_CR444B W60L60 1xLED48/840 AC-MLO-Polar Normal (separate)

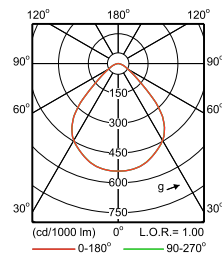
Polar Wide Diagrams



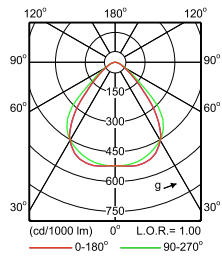
IFPS_CR444B W60L60 1xLED88/830 AC-MLO-Polar Normal (separate)



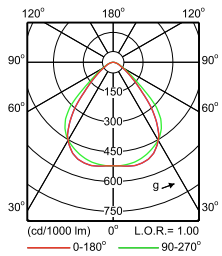
IFPS_CR444B W60L60 1xLED48/940 AC-MLO-Polar Normal (separate)



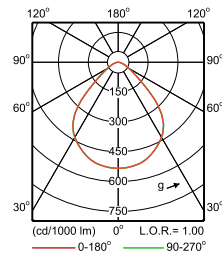
IFPS_CR444B W60L60 1xLED88/940 AC-MLO-Polar Normal (separate)



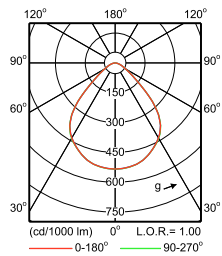
IFPS_CR444B W30L120 1xLED88/830 AC-MLO-Polar Normal (separate)



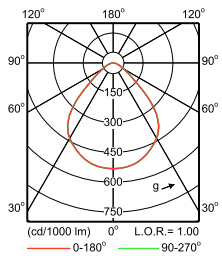
IFPS_CR444B W30L120 1xLED88/840 AC-MLO-Polar Normal (separate)



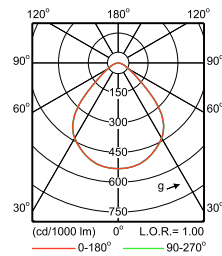
IFPS_CR446B W62L62 1xLED48/830 AC-MLO-Polar Normal (separate)



IFPS_CR446B W62L62 1xLED48/840 AC-MLO-Polar Normal (separate)



IFPS_CR446B W62L62 1xLED88/830 AC-MLO-Polar Normal (separate)



IFPS_CR446B W62L62 1xLED88/840 AC-MLO-Polar Normal (separate)

