



CorePro LED PLL



CorePro LED PLL EM/Mains 8W 830 4P

CorePro, LED, PL-L, EM, 218 mm, 8 W, 18W PL-L, 3000 K, 960 lm, CRI 80, 30000 h

Philips CorePro LED PLL is the ideal uplamping solution for downlights & luminaires in a wide range of general lighting applications. It integrates a LED light source into a traditional fluorescent form factor to offer superb energy savings over a lifetime that's twice as long as fluorescent alternatives.

Product data

| General Information | |
|----------------------------------------|--------------------|
| Cap base | 2G11 |
| Nominal lifetime | 30,000 h |
| Switching Cycle | 200,000 |
| Lighting Technology | LED |
| Flux measurement reference | Sphere |
| Warranty period | 3 years |
| Light Technical | |
| Colour Code | 830 [CCT of 3000K] |
| Beam angle (nom.) | 160 degree(s) |
| Luminous Flux | 960 lm |
| Colour designation | White (WH) |
| Correlated Colour Temperature (Nom) | 3000 K |
| Luminous efficacy (rated) (nom.) | 120 lm/W |
| Colour consistency | <6 |
| Colour rendering index (CRI) | 80 |
| LLMF at end of nominal lifetime (nom.) | 70 % |

| Photobiological safety according to EN 62471 | RGO |
|------------------------------------------------------------------------------|-------------|
| Operating and Electrical | |
| Line Frequency | 50 to 60 Hz |
| Input frequency | 50 to 60 Hz |
| Power Consumption | 8 W |
| Lamp current (nom.) | 42 mA |
| Starting time (nom.) | 0.5 s |
| Warm-up time to 60% light | 0.5 s |
| Power Factor (Fraction) | 0.9 |
| Voltage (nom.) | 220-240 V |
| LED alternative to fluorescent lamp power | 18W PL-L |
| Inrush current at mains | 8 |
| Max. lamp no. on MCB B type 10A — Mains | 90 |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 180 |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor. | 30 |
| Max. lamp no. on MCB B type 16A — Mains | 150 |

CorePro LED PLL

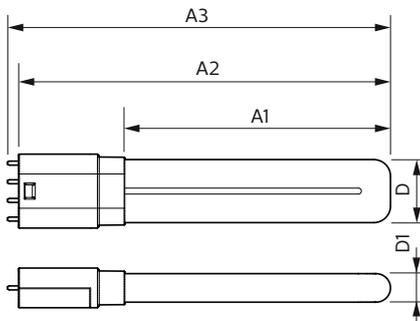
| | |
|------------------------------------------------------------------------------|---------------------------------------|
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 290 |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor. | 49 |
| Ballast Compatibility | EM |
| Temperature | |
| T-Case maximum (nom.) | 70 °C |
| Controls and Dimming | |
| Dimmable | No |
| Mechanical and Housing | |
| Lamp Finish | Frosted |
| Bulb material | Glass |
| Product length | 218 mm |
| Bulb shape | PL-L |
| Net Weight (Piece) | 0.085 kg |
| Approval and Application | |
| Energy Efficiency Class | E |
| Energy-saving product | Yes |
| Approval marks | RoHS compliance KEMA Keur certificate |

| | |
|------------------------------------|---------------|
| Energy consumption kWh/1,000 hours | 8 kWh |
| EPREL Registration Number | 1370823 |
| CE mark | Yes |
| EU RoHS compliant | Yes |
| Flickering value (PstLM) | 1 |
| Stroboscopic effect | 0.4 |
| Ambient temperature range | -20°C to 45°C |

Product Data

| | |
|---------------------------------|------------------------------------|
| Order product name | CorePro LED PLL EM/Mains 8W 830 4P |
| Full product name | CorePro LED PLL EM/Mains 8W 830 4P |
| Full EOC | 872016915699900 |
| Order code | 929003592202 |
| Material no. (12 NC) | 929003592202 |
| Numerator – quantity per pack | 1 |
| EAN/UPC – Product/Case | 8720169156999 |
| Numerator – packs per outer box | 10 |
| EAN/UPC - Case | 8720169157002 |

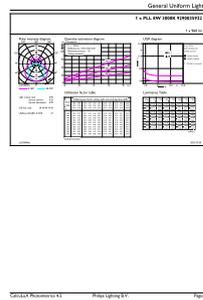
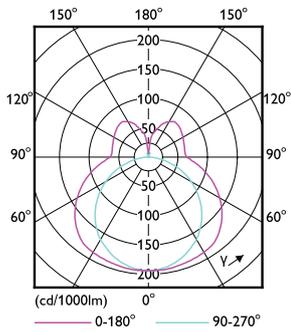
Dimensional drawing



| Product | D1 | D2 | A1 | A2 | A3 |
|------------------------------------|-------|-------|--------|--------|--------|
| CorePro LED PLL EM/Mains 8W 830 4P | 17 mm | 38 mm | 156 mm | 218 mm | 224 mm |

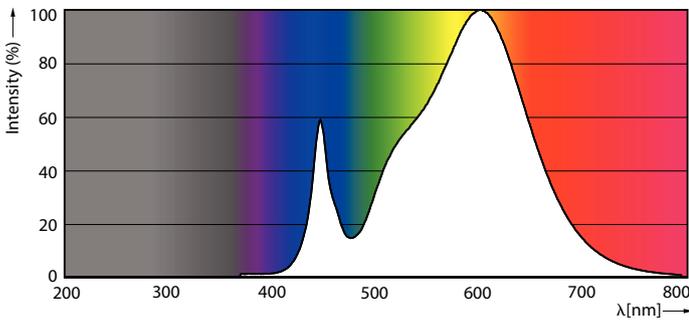
CorePro LED PLL

Photometric data



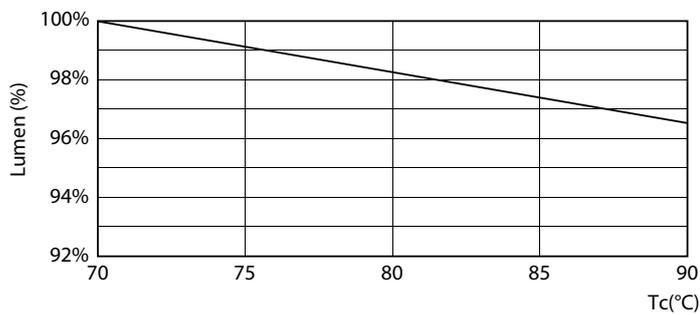
Light Distribution Diagram - CorePro LED PLL EM/Mains 8W 830 4P

General uniform lighting - CorePro LED PLL EM/Mains 8W 830 4P

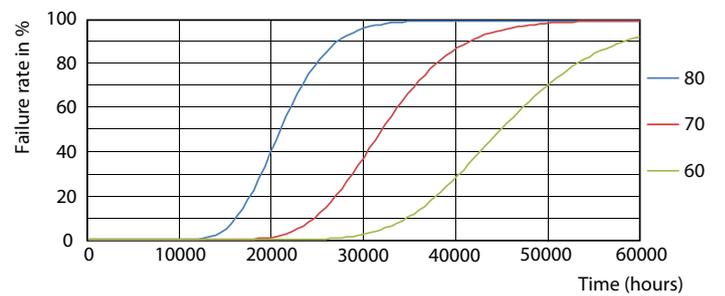


Spectral Power Distribution Colour - CorePro LED PLL EM/Mains 8W 830 4P

Lifetime



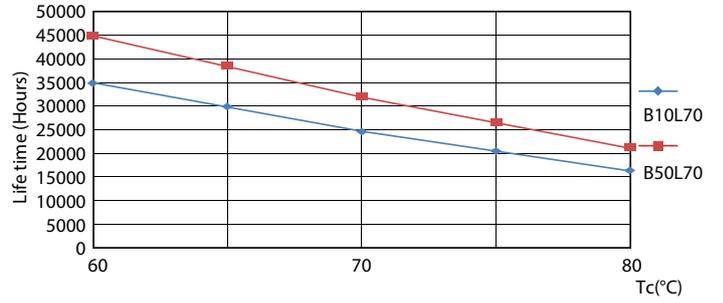
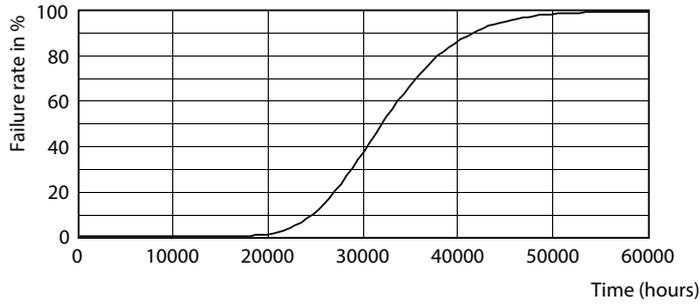
Lumen Maintenance Diagram - CorePro LED PLL EM/Mains 8W 830 4P



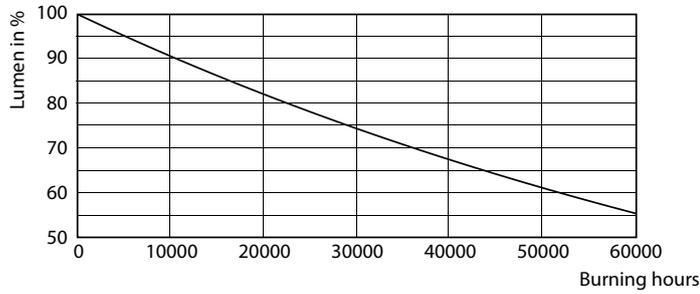
FailureRate

CorePro LED PLL

Lifetime



Life Expectancy Diagram



LifetimeVsTc

Lumen Maintenance Diagram - CorePro LED PLL EM/Mains 8W 830 4P

