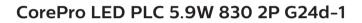
# **PHILIPS** Lighting



## **CorePro LED PLC 2P**



CorePro LED PLC 2P integrates a LED light source into a traditional fluorescent form factor. This product is the ideal solution for uplamping in general lighting applications: it meets basic lighting requirements, offers significant energy savings, and is environmentally friendly.

#### **Product data**

| General Information                          |                    |
|--|--------------------|
| Cap-Base                                     | G24d-1             |
| Nominal lifetime                             | 30,000 hour(s)     |
| Switching Cycle                              | 50,000             |
| Lighting Technology                          | LED                |
| Flux measurement reference                   | Sphere             |
|  |                    |
| Light Technical                              |                    |
| Color Code                                   | 830 [CCT of 3000K] |
| Beam Angle (Nom)                             | 120 degree(s)      |
| Luminous Flux                                | 600 lm             |
| Color Designation                            | White (WH)         |
| Correlated Color Temperature (Nom)           | 3000 K             |
| Luminous Efficacy (rated) (Nom)              | 101 lm/W           |
| Color Consistency                            | <6                 |
| Color rendering index (CRI)                  | 82                 |
| LLMF At End Of Nominal Lifetime (Nom)        | 70 %               |
| Photobiological safety according to EN 62471 | RG1                |
|  |                    |
| Operating and Electrical                     |                    |
| Input Execuency                              | FO to CO UP        |

| Input Frequency    | 50 to 60 Hz |
|--------------------|-------------|
| Power Consumption  | 5.9 W       |
| Lamp Current (Nom) | 31 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 |
| Ballast Compatibility                        | EM/Mains  |
| LED alternative to fluorescent lamp power    | 13 W      |
| Inrush current at mains                      | 2.78      |
| Max. lamp no. on MCB B type 10A - Mains      | 276       |
| Max. lamp no. on MCB B type 10A - EM ballast | 306       |
| without Compensation Capacitor.              |           |
| Max. lamp no. on MCB B type 10A - EM ballast | -         |
| with Compensation Capacitor.                 |           |
| Max. lamp no. on MCB B type 16A - Mains      | 442       |
| Max. lamp no. on MCB B type 16A - EM ballast | 490       |
| without Compensation Capacitor.              |           |
| Max. lamp no. on MCB B type 16A - EM ballast | -         |
| with Compensation Capacitor.                 |           |
|  |           |
| Temperature                                  |           |
| T-Case Maximum (Nom)                         | 75 ℃      |

#### Datasheet, 2025, March 17

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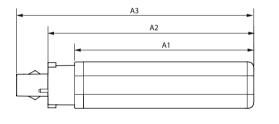
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#### CorePro LED PLC 2P

| Controls and Dimming          |                            |
|-------------------------------|----------------------------|
| Dimmable                      | No                         |
|                               |                            |
| Mechanical and Housing        |                            |
| Bulb Finish                   | Frosted                    |
| Bulb Material                 | Plastic                    |
| Product Length                | 115 mm                     |
| Bulb Shape                    | PL-C                       |
| Net Weight (Piece)            | 0.070 kg                   |
|                               |                            |
| Approval and Application      |                            |
| Energy Efficiency Class       | F                          |
| Energy Saving Product         | Yes                        |
| Approval Marks                | RoHS compliance CE marking |
|                               | KEMA Keur certificate      |
| Energy Consumption kWh/1000 h | 6 kWh                      |
| EPREL Registration Number     | 1820629                    |
| CE mark                       | Yes                        |
| EU RoHS compliant             | Yes                        |
|                               |                            |

| Flickering value (PstLM) - Flickering value as per | 1                           |
|--|-----------------------------|
| EN 61000-3-3                                       |                             |
| Stroboscopic effect visibility measure (SVM)       | 0.4                         |
| Ambient temperature range                          | -20 to +35 °C               |
|  |                             |
| Product Data                                       |                             |
| Order product name                                 | CorePro LED PLC 5.9W 830 2P |
|  | G24d-1                      |
| Full product name                                  | CorePro LED PLC 5.9W 830 2P |
|  | G24d-1                      |
| Full product code                                  | 872016928750100             |
| Order code   | 929003757002                |
| Material Nr. (12NC)                                | 929003757002                |
| Numerator - Quantity Per Pack                      | 1                           |
| EAN/UPC - Product/Case                             | 8720169287501               |
| Numerator - Packs per outer box                    | 10                          |
| EAN/UPC - Case                                     | 8720169287518               |

#### Dimensional drawing



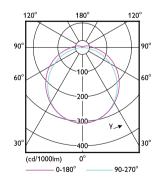
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|--|---|
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| Product                            | D1    | D2 | A1    | A2     | A3     |
|------------------------------------|-------|----|-------|--------|--------|
| CorePro LED PLC 5.9W 830 2P G24d-1 | 34 mm |    | 95 mm | 115 mm | 138 mm |

#### Photometric data

|            | 1  | × PLED 5.PW 1000K \$290037578 |
|------------|--|-------------------------------|
|            |  | 1 x 600 im                    |
|            | Vertex entraine degree<br>Vertex entraine degree<br>Vertex entrained and the second a |                               |
| Million 18 | Utilization former rainly  | Laminance Table               |
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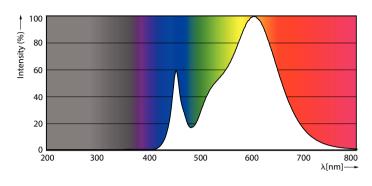
General uniform lighting - CorePro LED PLC 5.9W 830 2P G24d-1



Light Distribution Diagram - CorePro LED PLC 5.9W 830 2P G24d-1

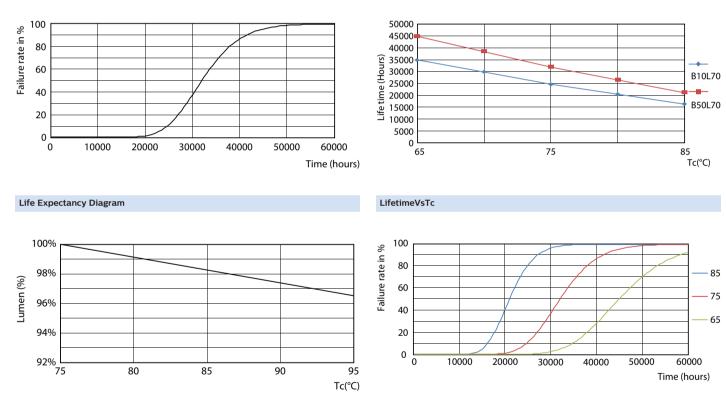
#### CorePro LED PLC 2P

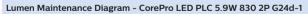
#### Photometric data



Spectral Power Distribution Colour - CorePro LED PLC 5.9W 830 2P G24d-1

#### Lifetime

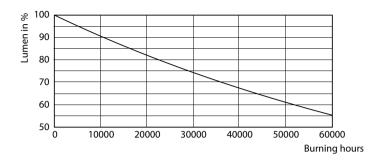




FailureRate

### CorePro LED PLC 2P

#### Lifetime



Lumen Maintenance Diagram - CorePro LED PLC 5.9W 830 2P G24d-1



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