![Philips Lighting logo]

# CorePro LEDtube EM/ Mains T8

## CorePro LEDtube 1500mm 20W 840 T8

Philips CorePro LEDtubes are the quick and easy way to replace T8 fluorescent or other LED tubes with a fast pack back time. Not only does the Core range of LEDtubes require a low initial investment, but LED energy efficiency also delivers instant savings that you can bank on over a long and reliable lifetime. Plus, with the same lamp size and light distribution as fluorescent alternatives, you'll never know the difference. There are two ways to install these LED tubes: Rewire your existing fluorescent-based luminaires so the CorePro LEDtubes work directly on the Mains. Or simply change the fluorescent starter to an LED starter that can be used with your Electromagnetic ballasts.

### Warnings and Safety
- NOTE: The overall energy efficiency and light distribution of any installation that uses these lamps will be determined by the design of the installation.
- Installation must be done according to the installation diagrams provided with the lamp or available online. Installation must be done by a certified professional.

### Product data

| General Information | |
|---|---|
| Cap-Base | G13 [Medium Bi-Pin Fluorescent] |
| Nominal lifetime | 50,000 hour(s) |
| Switching Cycle | 200,000 |
| Lighting Technology | LED |
| Flux measurement reference | Sphere |
| CE mark | Yes |
| EU RoHS compliant | Yes |

| Light Technical | |
|---|---|
| Color Code | 840 [CCT of 4000K] |
| Beam Angle (Nom) | 240 degree(s) |
| Luminous Flux | 2,200 lumen |
| Color Designation | Cool White (CW) |
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 110 lm/W |
| Color Consistency | <6 |
| Color rendering index (CRI) | 80 |
| LLMF At End Of Nominal Lifetime (Nom) | 70 % |

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| | |
|---|---|
| Flickering value (PstLM) | 1 |
| Stroboscopic effect value (SVM) | 0.9 |
| Photobiological safety according to EN 62471 | RG0 |

## Operating and Electrical

| | |
|---|---|
| Line Frequency | 50 to 60 Hz |
| Input Frequency | 50 to 60 Hz |
| Power Consumption | 20 W |
| Lamp Current (Nom) | 105 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 | 58 W |

## Temperature

| | |
|---|---|
| Ambient temperature range | -20 °C to 45 °C |
| T-Case Maximum (Nom) | 60 °C |

## Controls and Dimming

| | |
|---|---|
| Dimmable | No |

## Mechanical and Housing

| | |
|---|---|
| Bulb Finish | Frosted |

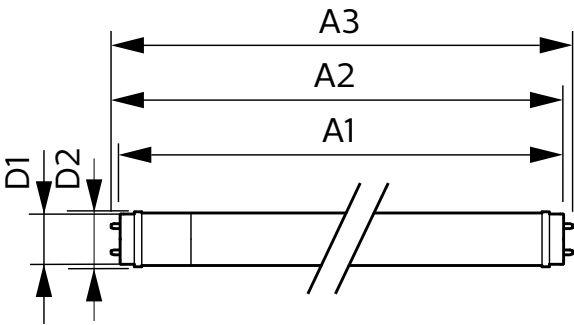| | |
|---|---|
| Bulb Material | Glass |
| Product Length | 1,500 mm |
| Bulb Shape | Tube, double-ended |

## Approval and Application

| | |
|---|---|
| Energy Efficiency Class | E |
| Energy Saving Product | Yes |
| Approval Marks | RoHS compliance CE marking KEMA Keur certificate |
| Energy Consumption kWh/1000 h | 20 kWh |
| EPREL Registration Number | 1384726 |

## Product Data

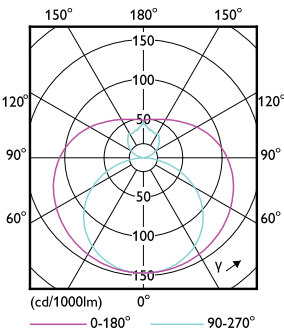| | |
|---|---|
| Full product code | 871951445981600 |
| Order product name | CorePro LEDtube 1500mm 20W 840 T8 |
| Order code | 929003547402 |
| Numerator – Quantity Per Pack | 1 |
| Numerator – Packs per outer box | 20 |
| Material Nr. (12NC) | 929003547402 |
| Full product name | CorePro LEDtube 1500mm 20W 840 T8 |
| EAN/UPC – Case | 8719514459823 |
| EAN/UPC – Product/Case | 8719514459816 |

## Dimensional drawing



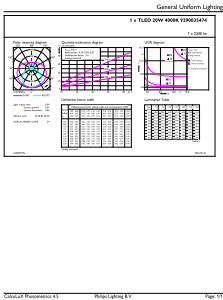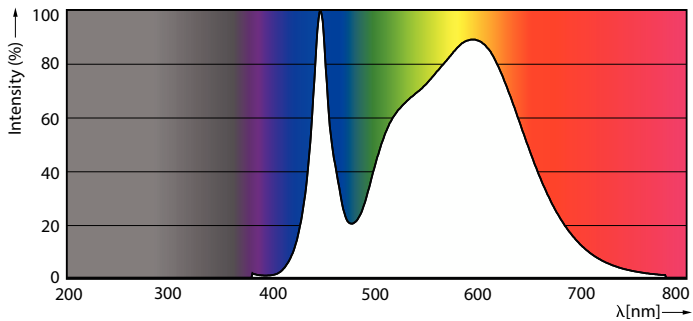| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| CorePro LEDtube 1500mm 20W 840 T8 | 25.7 mm | 28 mm | 1,500 mm | 1,507.1 mm | 1,514.2 mm |

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## Photometric data



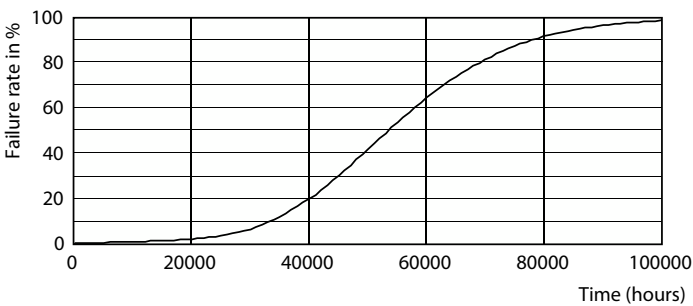**Light Distribution Diagram – CorePro LEDtube 1500mm 20W 840 T8**



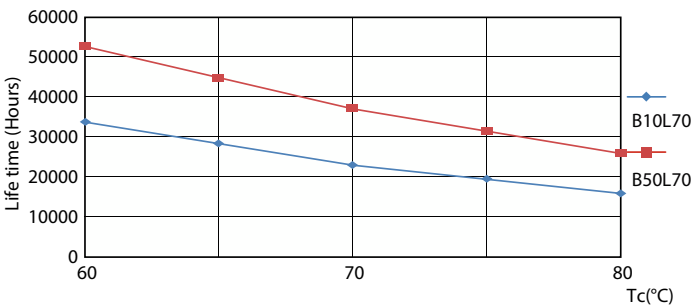**General uniform lighting – CorePro LEDtube 1500mm 20W 840 T8**



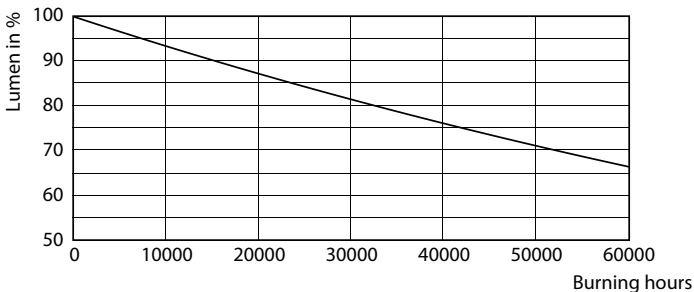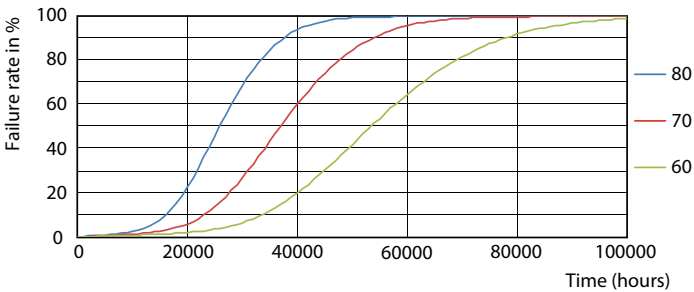**Spectral Power Distribution Colour – CorePro LEDtube 1500mm 20W 840 T8**

## Lifetime



**Life Expectancy Diagram – CorePro LEDtube 1500mm 20W 840 T8**



**Life Expectancy Diagram – CorePro LEDtube 1500mm 20W 840 T8**

## Lifetime



Life Expectancy Diagram – CorePro LEDtube 1500mm 20W 840 T8



Lumen Maintenance Diagram – CorePro LEDtube 1500mm 20W 840 T8

www.lighting.philips.com

2023, October 26 – data subject to change