



# CorePro LEDtube EM/ Mains T8



## CorePro LEDtube 600mm 8W 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                         | 800 lumen          |
| Color Designation                     | Cool White (CW)    |
| Correlated Color Temperature (Nom)    | 4000 K             |
| Luminous Efficacy (rated) (Nom)       | 100 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                         | 8 W         |
| Lamp Current (Nom)                        | 46 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 | 18 W        |

## Temperature

|                           |                 |
|---------------------------|-----------------|
| Ambient temperature range | -20 °C to 45 °C |
| T-Case Maximum (Nom)      | 50 °C           |

## Controls and Dimming

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

## Mechanical and Housing

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

|                |                    |
|----------------|--------------------|
| Bulb Material  | Glass              |
| Product Length | 600 mm             |
| Bulb Shape     | Tube, double-ended |

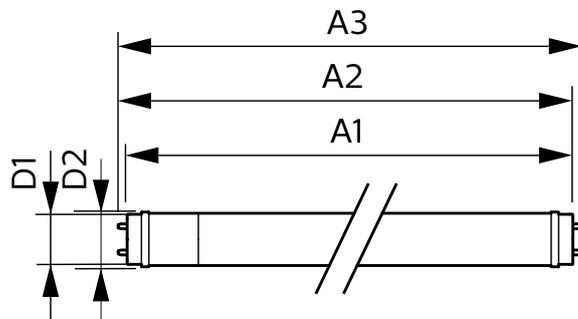
## Approval and Application

|                               |  |
|-------------------------------|--|
| Energy Efficiency Class       | F  |
| Energy Saving Product         | Yes  |
| Approval Marks                | RoHS compliance CE marking KEMA Keur certificate |
| Energy Consumption kWh/1000 h | 8 kWh  |
| EPREL Registration Number     | 1384725  |

## Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Full product code               | 871951445977900                 |
| Order product name              | CorePro LEDtube 600mm 8W 840 T8 |
| Order code                      | 929003547202                    |
| Numerator - Quantity Per Pack   | 1                               |
| Numerator - Packs per outer box | 20                              |
| Material Nr. (12NC)             | 929003547202                    |
| Full product name               | CorePro LEDtube 600mm 8W 840 T8 |
| EAN/UPC - Case                  | 8719514459786                   |
| EAN/UPC - Product/Case          | 8719514459779                   |

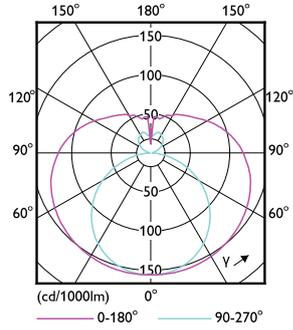
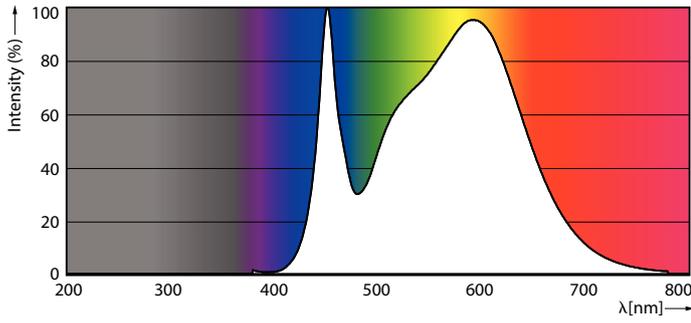
## Dimensional drawing



| Product                         | D1      | D2    | A1       | A2       | A3       |
|---------------------------------|---------|-------|----------|----------|----------|
| CorePro LEDtube 600mm 8W 840 T8 | 25.7 mm | 28 mm | 588.5 mm | 595.5 mm | 602.5 mm |

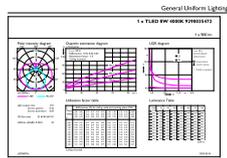
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## Photometric data



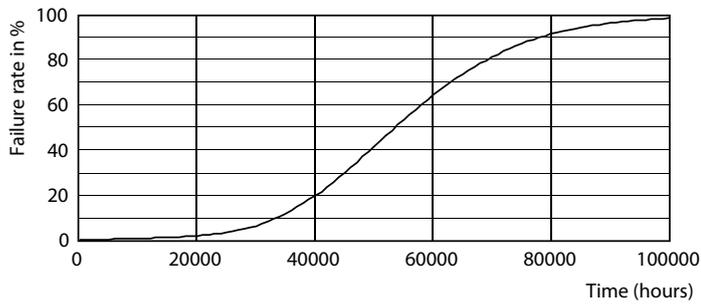
Spectral Power Distribution Colour - CorePro LEDtube 600mm 8W 840 T8

Light Distribution Diagram - CorePro LEDtube 600mm 8W 840 T8



General uniform lighting - CorePro LEDtube 600mm 8W 840 T8

## Lifetime

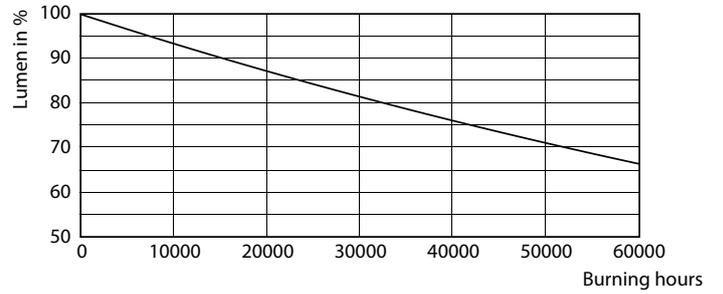


Life Expectancy Diagram - CorePro LEDtube 600mm 8W 840 T8

Life Expectancy Diagram - CorePro LEDtube 600mm 8W 840 T8

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## Lifetime



Life Expectancy Diagram - CorePro LEDtube 600mm 8W 840 T8

Lumen Maintenance Diagram - CorePro LEDtube 600mm 8W 840 T8

