

# CorePro LED tube EM/ Mains T8



## CorePro LEDtube 1500mm 20W 840 T8

CorePro, LEDtube, T8, EM/Mains, 1500 mm, 20 W, 58W TL-D, 4000 K, 2200 lm, CRI 80, 50000 hour(s)

CorePro, LEDtube, T8, EM/Mains, 1500 mm, 20 W, LED alternative to 58W TL-D, 4000 K, 2200 lm, CRI 80, 50000 hour(s), 110 lm/W, EEL E, G13, Beam angle 240 degree(s), Glass, 1500 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.4, PstLM 1

### 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        |                    | Color Designation                            |             |
|----------------------------|--------------------|----------------------------------------------|-------------|
| Cap-Base                   | G13                | Cool White (CW)                              |             |
| Nominal lifetime           | 50,000 hour(s)     | Correlated Color Temperature (Nom)           | 4000 K      |
| Switching Cycle            | 200,000            | Luminous Efficacy (rated) (Nom)              | 110 lm/W    |
| Lighting Technology        | LEDtube            | Color Consistency                            | <6          |
| Flux measurement reference | Sphere             | Color rendering index (CRI)                  | 80          |
| Warranty period            | 3 years            | LLMF At End Of Nominal Lifetime (Nom)        | 70 %        |
| Light Technical            |                    | Photobiological safety according to EN 62471 | RG0         |
| Color Code                 | 840 [CCT of 4000K] | Operating and Electrical                     |             |
| Beam Angle (Nom)           | 240 degree(s)      | Line Frequency                               | 50 to 60 Hz |
| Luminous Flux              | 2,200 lm           | Input Frequency                              | 50 to 60 Hz |
|                            |                    | Power Consumption                            | 20 W        |

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|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| 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                                    | 58W TL-D  |
| Inrush current at mains                                                      | 7.4       |
| Max. lamp no. on MCB B type 10A - Mains                                      | 51        |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 76        |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 17        |
| Max. lamp no. on MCB B type 16A - Mains                                      | 82        |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 122       |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 27        |
| Ballast Compatibility                                                        | EM/Mains  |

Temperature

|                      |       |
|----------------------|-------|
| 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         | T8       |
| Net Weight (Piece) | 0.220 kg |

Approval and Application

|                                                                 |                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------|
| Energy Efficiency Class                                         | E                                                   |
| Energy Saving Product                                           | Yes                                                 |
| Approval Marks                                                  | RoHS compliance CE marking<br>KEMA Keur certificate |
| Energy Consumption kWh/1000 h                                   | 20 kWh                                              |
| EPREL Registration Number                                       | 1827700                                             |
| CE mark                                                         | Yes                                                 |
| EU RoHS compliant                                               | Yes                                                 |
| Flickering value (PstLM) - Flickering value as per EN 61000-3-3 | 1                                                   |
| Stroboscopic effect visibility measure (SVM)                    | 0.4                                                 |
| Ambient temperature range                                       | -20 to +45 °C                                       |

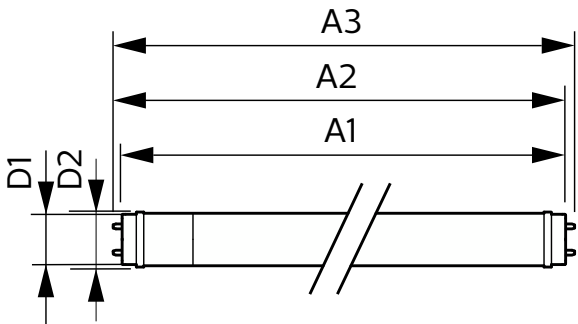
Application Conditions

|                                     |                |
|-------------------------------------|----------------|
| can it be used in closed luminaires | Yes            |
| Wireless Technology                 | Not applicable |

Product Data

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

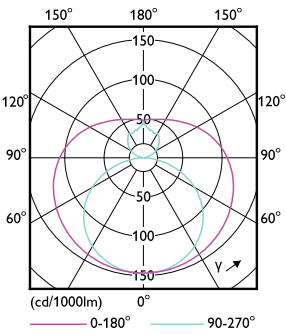
Dimensional drawing



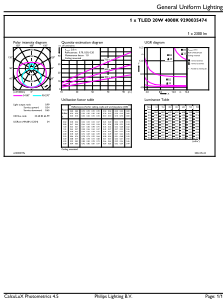
| Product                              | D1      | D2    | A1       | A2         | A3         |
|--------------------------------------|---------|-------|----------|------------|------------|
| CorePro LEDtube 1500mm 20W<br>840 T8 | 25.7 mm | 28 mm | 1,500 mm | 1,507.1 mm | 1,514.2 mm |

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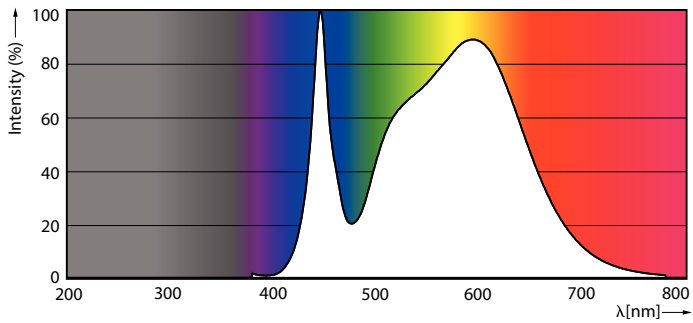
Photometric data



Light Distribution Diagram - CorePro LEDtube 1500mm 20W 840 T8

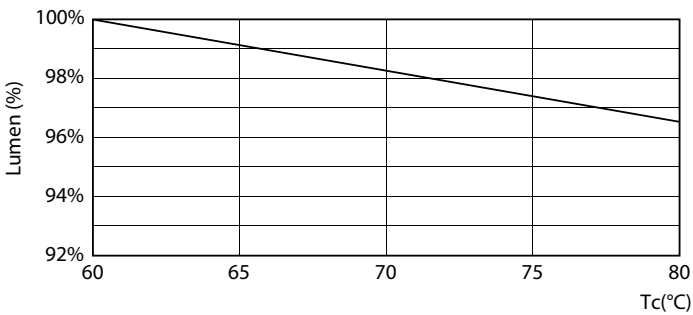


General uniform lighting - CorePro LEDtube 1500mm 20W 840 T8

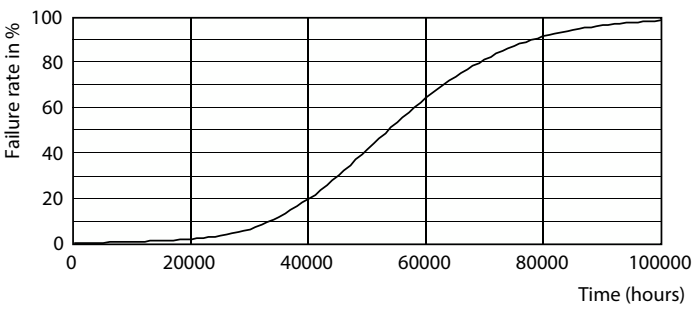


Spectral Power Distribution Colour - CorePro LEDtube 1500mm 20W 840 T8

Lifetime



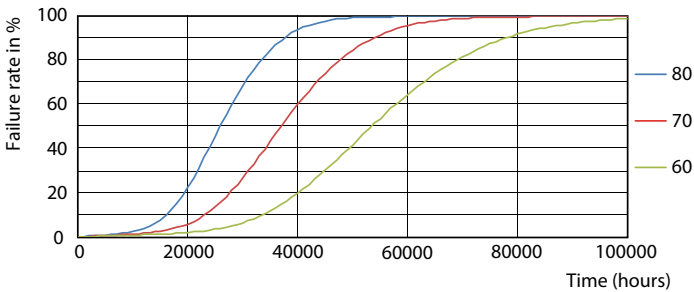
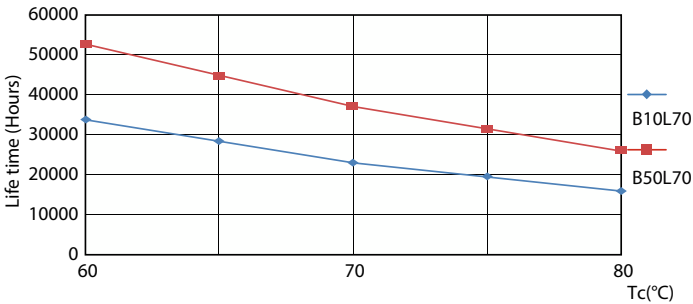
Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 840 T8



Life Expectancy Diagram

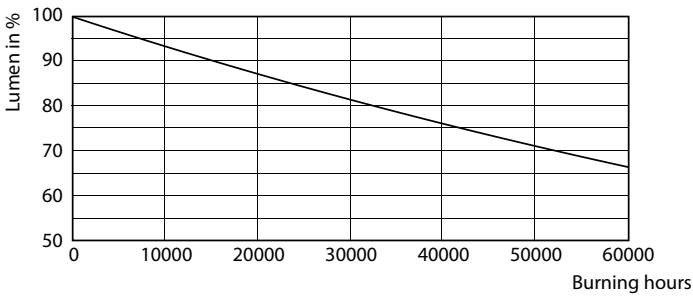
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Lifetime



LifetimeVsTc

FailureRate



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

