



# CorePro LED tube Universal T8



## CorePro LEDtube UN 600mm HO 8W830 T8

The new Philips CorePro LEDtube Universal T8 brings simplicity to your lighting project. You don't need to pay attention to the driver technology anymore. Thanks to a unique design, Philips CorePro LEDtube Universal T8 directly fits in luminaires operating either on Electro Magnetic ballasts or HF Electronic ballasts or mains power connection. So simple to operate and no need to carry double stock of products! Perfectly safe, reliable & easy to install Philips CorePro LEDtube Universal T8 is the ideal alternative to standard fluorescent tubes to save energy and lower investment.

### Product data

| General Information                    |                    |
|----------------------------------------|--------------------|
| Cap base                               | G13                |
| Nominal lifetime                       | 50,000 h           |
| Switching Cycle                        | 50,000             |
| Lighting Technology                    | LED                |
| Flux measurement reference             | Sphere             |
|                                        |                    |
| Light Technical                        |                    |
| Colour Code                            | 830 [CCT of 3000K] |
| Beam angle (nom.)                      | 240 degree(s)      |
| Luminous Flux                          | 850 lm             |
| Colour designation                     | White (WH)         |
| Correlated Colour Temperature (Nom)    | 3000 K             |
| Luminous efficacy (rated) (nom.)       | 106 lm/W           |
| Colour consistency                     | <6                 |
| Colour rendering index (CRI)           | 80                 |
| LLMF at end of nominal lifetime (nom.) | 70 %               |

| 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.)                          | 40 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        |     |
| Inrush current at mains                      | 4.4         |     |
| Max. lamp no. on MCB B type 10A — Mains      | 176         |     |
| Max. lamp no. on MCB B type 10A – EM ballast | 242         |     |
| without Compensation Capacitor.              |             |     |

CorePro LED tube Universal T8

|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 20        |
| Max. lamp no. on MCB B type 16A – Mains                                      | 281       |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 388       |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 35        |
| Ballast Compatibility                                                        | Universal |

Temperature

|                       |       |
|-----------------------|-------|
| T-Case maximum (nom.) | 45 °C |
|-----------------------|-------|

Controls and Dimming

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

Mechanical and Housing

|                    |          |
|--------------------|----------|
| Lamp Finish        | Frosted  |
| Bulb material      | Glass    |
| Product length     | 600 mm   |
| Bulb shape         | T8       |
| Net Weight (Piece) | 0.110 kg |

Approval and Application

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Energy Efficiency Class | F                                                   |
| Energy-saving product   | Yes                                                 |
| Approval marks          | RoHS compliance CE marking<br>KEMA Keur certificate |

|                                    |               |
|------------------------------------|---------------|
| Energy consumption kWh/1,000 hours | 8 kWh         |
| EPREL Registration Number          | 1936625       |
| CE mark                            | Yes           |
| EU RoHS compliant                  | Yes           |
| Flickering value (PstLM)           | 1             |
| Stroboscopic effect                | 0.4           |
| Ambient temperature range          | -20 to +45 °C |

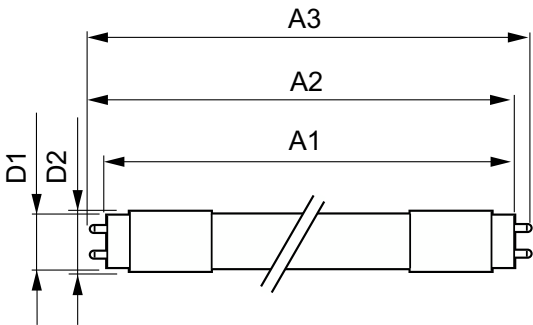
Application Conditions

|                                     |     |
|-------------------------------------|-----|
| Can it be used in closed luminaires | Yes |
|-------------------------------------|-----|

Product Data

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Order product name              | CorePro LEDtube UN 600mm HO 8W830 T8 |
| Full product name               | CorePro LEDtube UN 600mm HO 8W830 T8 |
| Full EOC                        | 871869978277100                      |
| Order code                      | 78277100                             |
| Material no. (12 NC)            | 929002419802                         |
| Numerator – quantity per pack   | 1                                    |
| EAN/UPC – Product/Case          | 8718699782771                        |
| Numerator – packs per outer box | 10                                   |
| EAN/UPC – Case                  | 8718699782788                        |

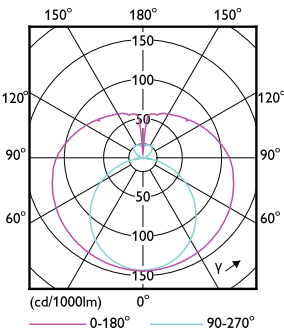
Dimensional drawing



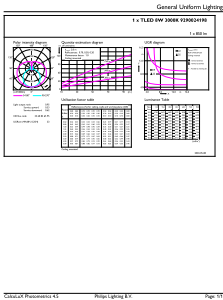
| Product                              | D1      | D2    | A1       | A2       | A3       |
|--------------------------------------|---------|-------|----------|----------|----------|
| CorePro LEDtube UN 600mm HO 8W830 T8 | 25.7 mm | 28 mm | 588.6 mm | 595.7 mm | 602.8 mm |

CorePro LED tube Universal T8

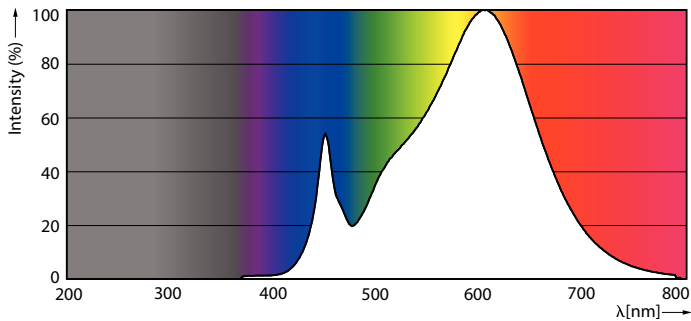
Photometric data



Light Distribution Diagram - CorePro LEDtube UN 600mm HO 8W830 T8

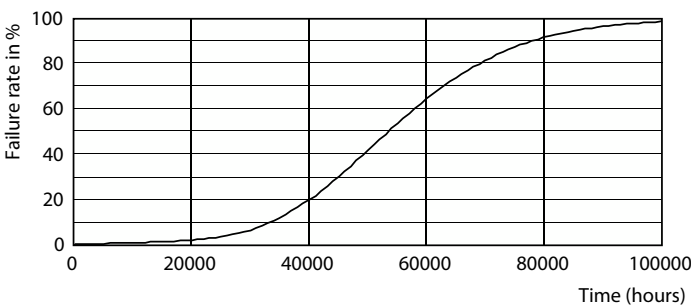


General uniform lighting - CorePro LEDtube UN 600mm HO 8W830 T8

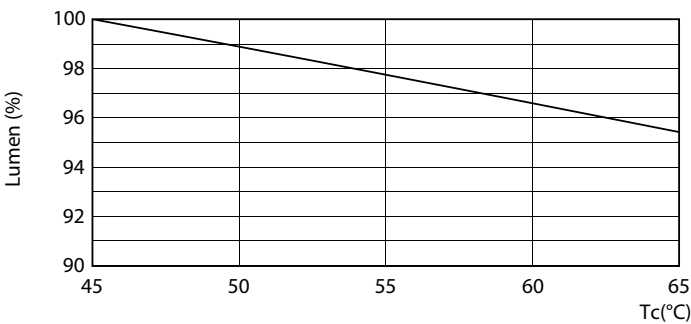


Spectral Power Distribution Colour - CorePro LEDtube UN 600mm HO 8W830 T8

Lifetime



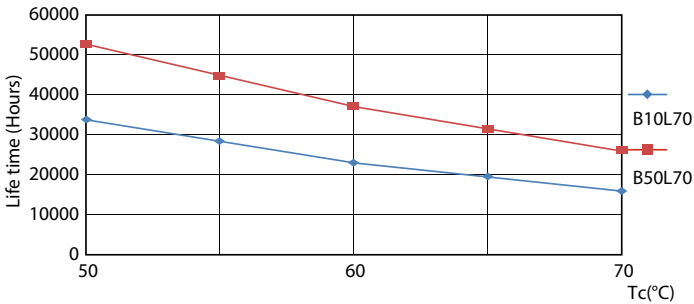
Life Expectancy Diagram



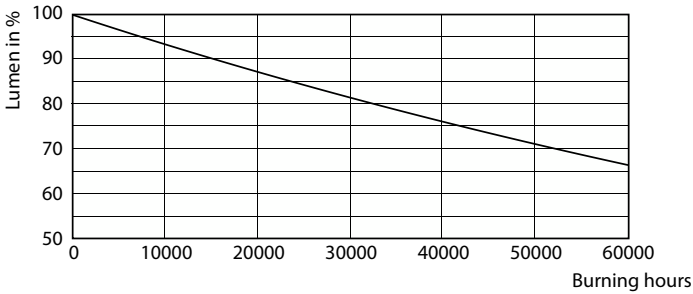
Lumen Maintenance Diagram - CorePro LEDtube UN 600mm HO 8W830 T8

CorePro LED tube Universal T8

Lifetime



FailureRate



LifetimeVsTc

Lumen Maintenance Diagram - CorePro LEDtube UN 600mm HO 8W830 T8

