



CorePro LEDtube EM/ Mains T8



CorePro LEDtube 1200mm HO 18W 865 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.

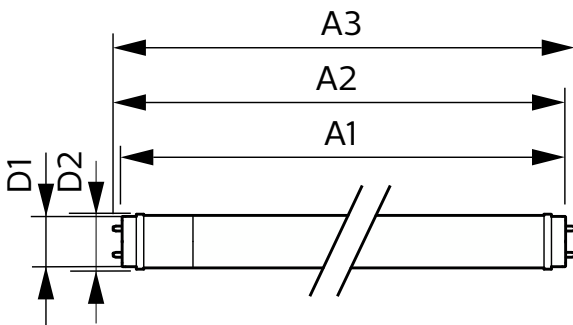
Product data

| General Information | | | |
|----------------------------|--------------------|--|---------------|
| Cap-Base | G13 | Luminous Flux | 2,000 lm |
| Nominal lifetime | 50,000 hour(s) | Color Designation | Cool Daylight |
| Switching Cycle | 200,000 | Correlated Color Temperature (Nom) | 6500 K |
| Lighting Technology | LED | Luminous Efficacy (rated) (Nom) | 111 lm/W |
| Flux measurement reference | Sphere | Color Consistency | <6 |
| | | Color rendering index (CRI) | 80 |
| | | LLMF At End Of Nominal Lifetime (Nom) | 70 % |
| | | Photobiological safety according to EN 62471 | RGO |
| Light Technical | | | |
| Color Code | 865 [CCT of 6500K] | | |
| Beam Angle (Nom) | 240 degree(s) | | |

CorePro LEDtube EM/Mains T8

| Operating and Electrical | |
|--|-------------|
| Line Frequency | 50 to 60 Hz |
| Input Frequency | 50 to 60 Hz |
| Power Consumption | 18 W |
| Lamp Current (Nom) | 90 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 | 36 W |
| Inrush current at mains | 4.64 |
| Max. lamp no. on MCB B type 10A - Mains | 89 |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 89 |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor. | 24 |
| Max. lamp no. on MCB B type 16A - Mains | 142 |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 142 |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor. | 38 |
| Temperature | |
| T-Case Maximum (Nom) | 60 °C |
| Controls and Dimming | |
| Dimmable | No |
| Mechanical and Housing | |
| Bulb Finish | Frosted |
| Bulb Material | Glass |
| Product Length | 1,200 mm |
| Bulb Shape | T8 |

Dimensional drawing



| Net Weight (Piece) | 0.220 kg |
|---|---|
| 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 | 18 kWh |
| EPREL Registration Number | 1827691 |
| 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 |
|-------------------------------------|-----|

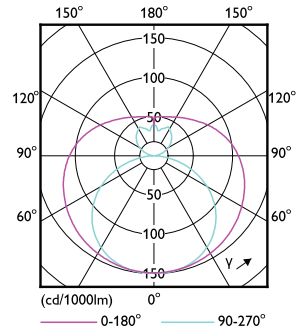
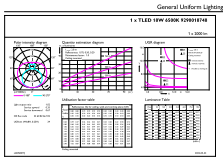
Product Data

| | |
|---------------------------------|--------------------------------------|
| Order product name | CorePro LEDtube 1200mm HO 18W 865 T8 |
| Full product name | CorePro LEDtube 1200mm HO 18W 865 T8 |
| Full product code | 871869680611100 |
| Order code | 929001874802 |
| Material Nr. (12NC) | 929001874802 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8718696806111 |
| Numerator - Packs per outer box | 10 |
| EAN/UPC - Case | 8718696806128 |

| Product | D1 | D2 | A1 | A2 | A3 |
|--------------------------------------|---------|-------|----------|----------|----------|
| CorePro LEDtube 1200mm HO 18W 865 T8 | 25.7 mm | 28 mm | 1,198 mm | 1,205 mm | 1,212 mm |

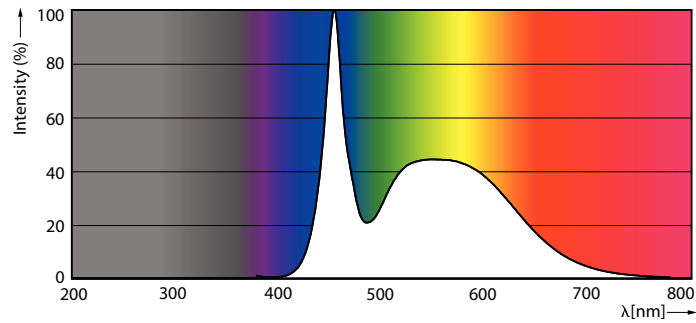
CorePro LEDtube EM/Mains T8

Photometric data



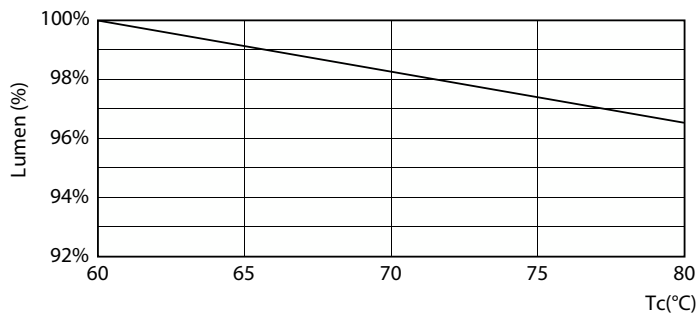
General uniform lighting - CorePro LEDtube 1200mm HO 18W 865 T8

Light Distribution Diagram - CorePro LEDtube 1200mm HO 18W 865 T8

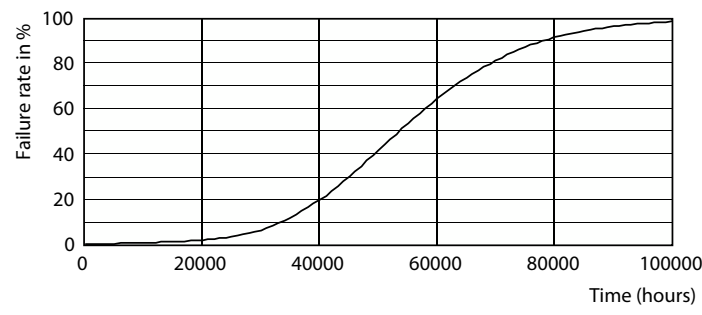


Spectral Power Distribution Colour - CorePro LEDtube 1200mm HO 18W 865 T8

Lifetime



Lumen Maintenance Diagram - CorePro LEDtube 1200mm HO 18W 865 T8



Life Expectancy Diagram

CorePro LEDtube EM/Mains T8

Lifetime



LifetimeVsTc

FailureRate



Lumen Maintenance Diagram - CorePro LEDtube 1200mm HO 18W 865 T8

