



CorePro LEDtube EM/ Mains T8



CorePro LEDtube 1200mm HO 18W 830 T8

Philips CorePro LEDtubes are the quick and easy way to replace T8 fluorescent or other LED tubes with a fast pay 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

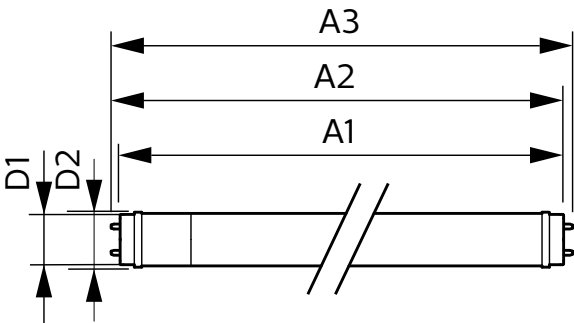
General Information	
Cap-Base	G13
Nominal lifetime	50,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
Light Technical	
Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	240 degree(s)

Luminous Flux	1,850 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	102 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RGO

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	F
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	18 kWh
EPREL Registration Number	1827705
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

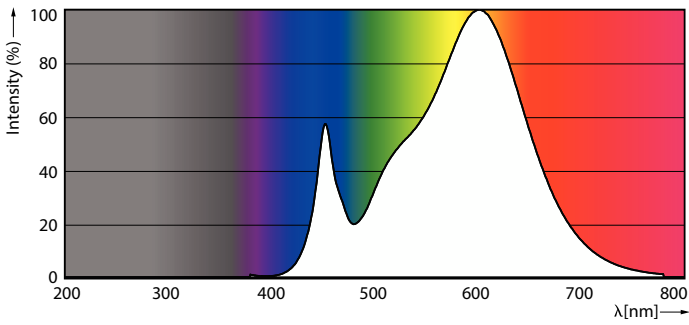
Application Conditions	
can it be used in closed luminaires	Yes

Product Data	
Order product name	CorePro LEDtube 1200mm HO 18W 830 T8
Full product name	CorePro LEDtube 1200mm HO 18W 830 T8
Full product code	871951448646100
Order code	929003577532
Material Nr. (12NC)	929003577532
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514486461
Numerator - Packs per outer box	20
EAN/UPC - Case	8719514486478

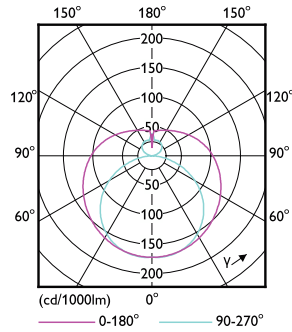
Product	D1	D2	A1	A2	A3
CorePro LEDtube 1200mm HO 18W 830 T8	25.7 mm	28 mm	1,198 mm	1,205 mm	1,212 mm

CorePro LEDtube EM/Mains T8

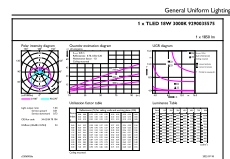
Photometric data



Spectral Power Distribution Colour - CorePro LEDtube 1200mm HO 18W 830 T8



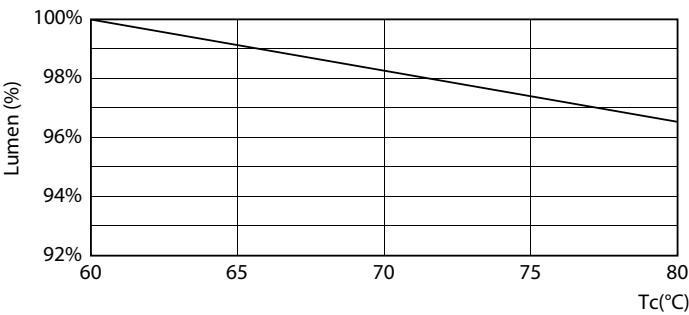
Light Distribution Diagram - CorePro LEDtube 1200mm HO 18W 830 T8



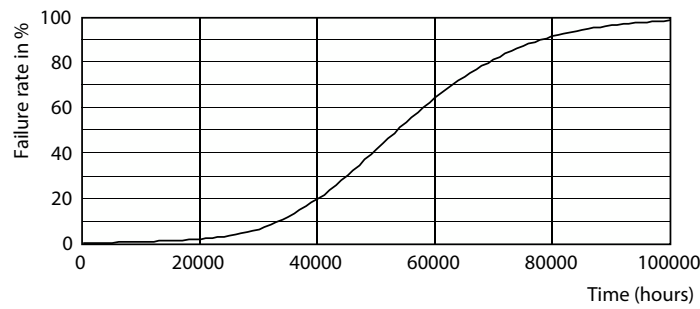
General Uniform Lighting

General uniform lighting - CorePro LEDtube 1200mm HO 18W 830 T8

Lifetime



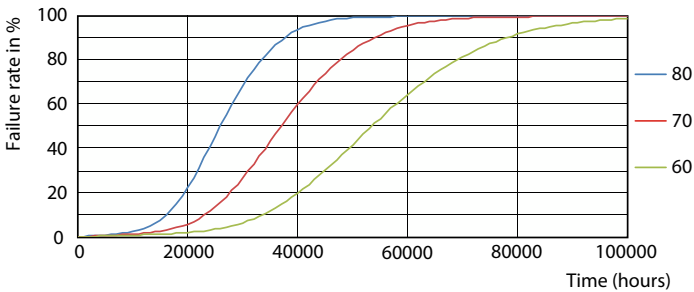
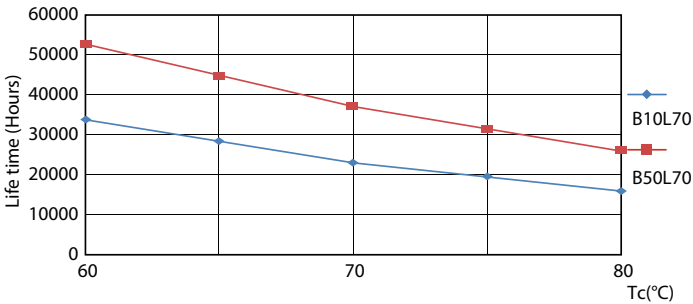
Lumen Maintenance Diagram - CorePro LEDtube 1200mm HO 18W 830 T8



Life Expectancy Diagram

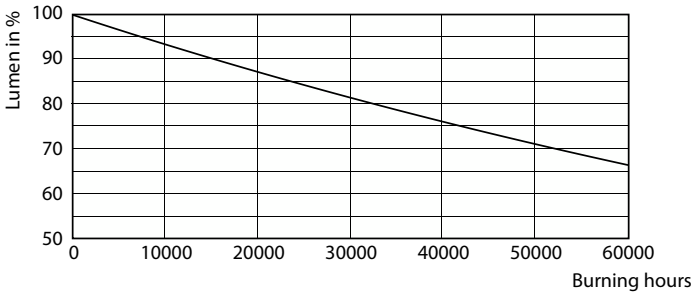
CorePro LEDtube EM/Mains T8

Lifetime



LifetimeVsTc

FailureRate



Lumen Maintenance Diagram - CorePro LEDtube 1200mm HO 18W 830 T8

