



CorePro LEDtube EM/ Mains T8



CorePro LEDtube 1200mm UO 17.7W 830 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	2,250 lm
Nominal lifetime	50,000 hour(s)	Color Designation	White (WH)
Switching Cycle	200,000	Correlated Color Temperature (Nom)	3000 K
Lighting Technology	LED	Luminous Efficacy (rated) (Nom)	127 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	RG0
Light Technical			
Color Code	830 [CCT of 3000K]		
Beam Angle (Nom)	240 degree(s)		

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Operating and Electrical	
Input Frequency	50 to 60 Hz
Power Consumption	17.7 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	4.84
Max. lamp no. on MCB B type 10A - Mains	84
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	84
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	24
Max. lamp no. on MCB B type 16A - Mains	135
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	135
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	38

Temperature	
T-Case Maximum (Nom)	55 °C

Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1,200 mm
Bulb Shape	T8

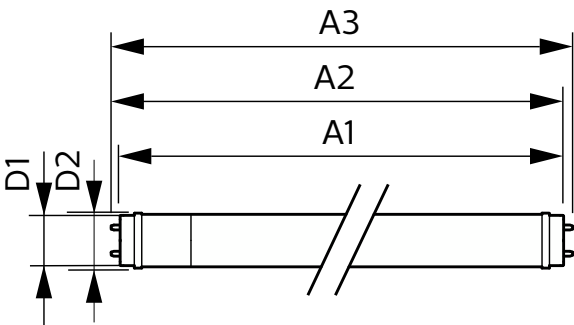
Net Weight (Piece)	0.220 kg
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Approval and Application	
Energy Efficiency Class	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	18 kWh
EPREL Registration Number	1827722
CE mark	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 UO 17.7W 830 T8
Full product name	CorePro LEDtube 1200mm UO 17.7W 830 T8
Full product code	872016927858500
Order code	929003746102
Material Nr. (12NC)	929003746102
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169278585
Numerator - Packs per outer box	20
EAN/UPC - Case	8720169278592

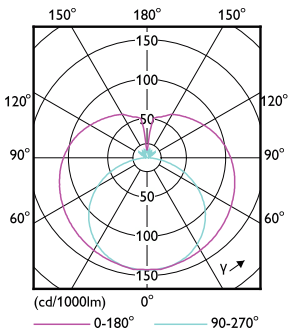
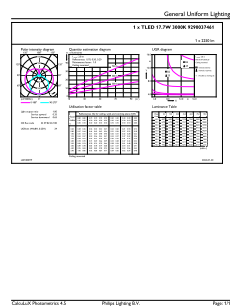
Dimensional drawing



Product	D1	D2	A1	A2	A3
CorePro LEDtube 1200mm UO 17.7W 830 T8	25.7 mm	28 mm	1,198 mm	1,205 mm	1,212 mm

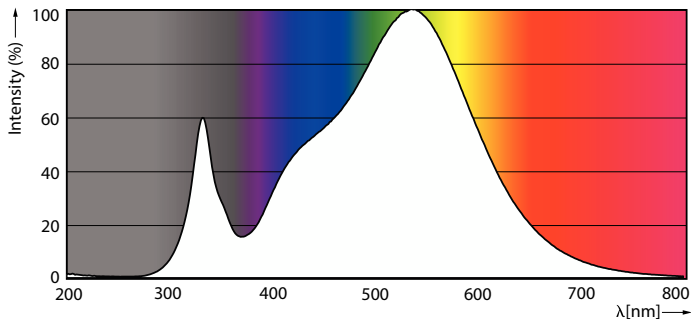
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Photometric data



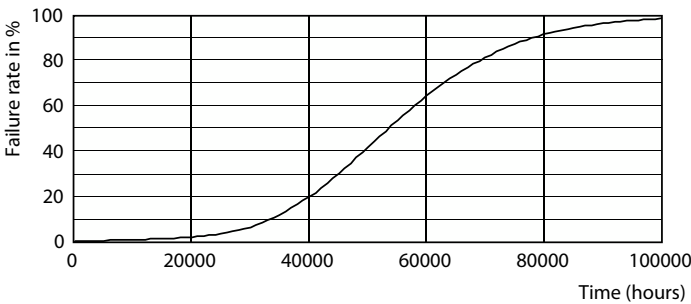
General uniform lighting - CorePro LEDtube 1200mm UO 17.7W 830 T8

Light Distribution Diagram - CorePro LEDtube 1200mm UO 17.7W 830 T8

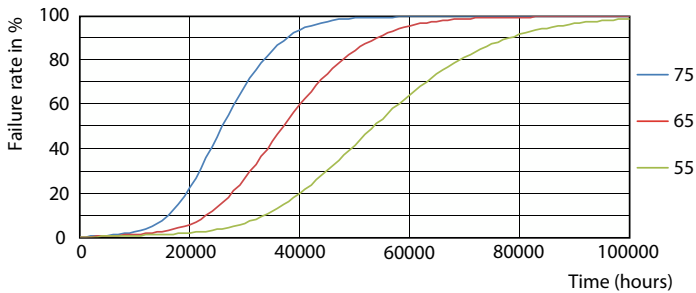


Spectral Power Distribution Colour - CorePro LEDtube 1200mm UO 17.7W 830 T8

Lifetime



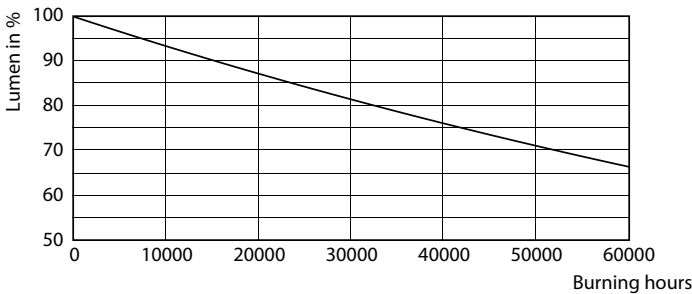
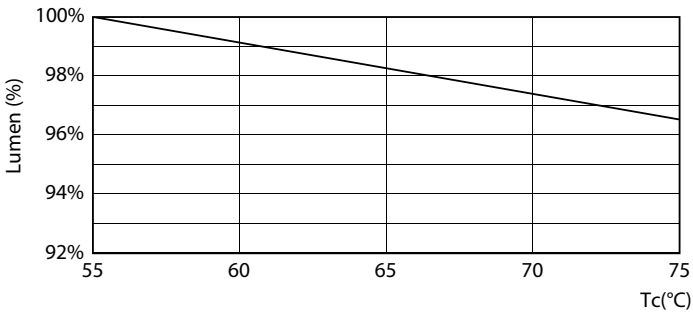
Life Expectancy Diagram



FailureRate

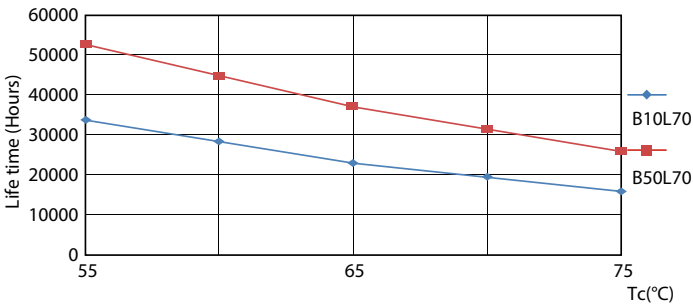
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Lifetime



Lumen Maintenance Diagram - CorePro LEDtube 1200mm UO 17.7W 830 T8

Lumen Maintenance Diagram - CorePro LEDtube 1200mm UO 17.7W 830 T8



LifetimeVsTc

