





CorePro LEDtube 1500mm 20W 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			
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)			

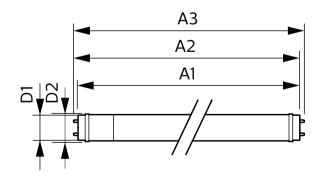
Luminous Flux	2,050 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	102 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Datasheet, 2025, March 17 data subject to change

Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	20 W
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
Ballast Compatibility	EM/Mains
LED alternative to fluorescent lamp power	58 W
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	76
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	17
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	82
Max. lamp no. on MCB B type 16A – EM ballast	122
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A – EM ballast	27
with Compensation Capacitor.	
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

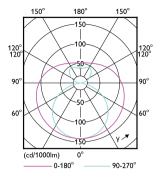
Net Weight (Piece)	0.220 kg			
Approval and Application				
Energy Efficiency Class	F			
Energy Saving Product	Yes			
Approval Marks	RoHS compliance CE marking			
	KEMA Keur certificate			
Energy Consumption kWh/1000 h	20 kWh			
EPREL Registration Number	1827710			
E mark Yes				
EU RoHS compliant	Yes			
Flickering value (PstLM) - Flickering value as per	1			
EN 61000-3-3				
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 1500mm 20W			
	830 T8			
Full product name	CorePro LEDtube 1500mm 20W			
	830 T8			
Full product code	871951448642300			
Order code	929003577332			
Material Nr. (12NC)	929003577332			
Numerator - Quantity Per Pack	1			
EAN/UPC - Product/Case	8719514486423			
Numerator - Packs per outer box	20			
EAN/UPC - Case	8719514486430			

Dimensional drawing

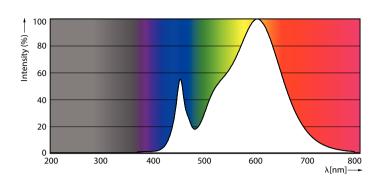


Product	D1	D2	A1	A2	А3
CorePro LEDtube 1500mm 20W	25.7 mm	28 mm	1,500 mm	1,507.1 mm	1,514.2 mm
830 T8					

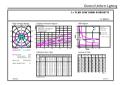
Photometric data







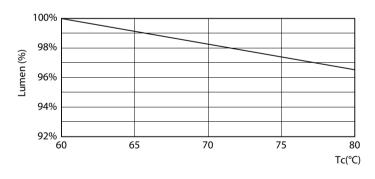
Spectral Power Distribution Colour - CorePro LEDtube 1500mm 20W 830 T8



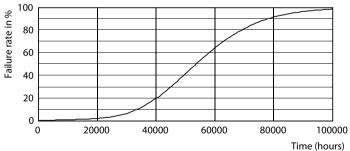
Grindol X Photometrics 4.5 Philips Lighting B.V. Pager 1/7

General uniform lighting - CorePro LEDtube 1500mm 20W 830 T8

Lifetime

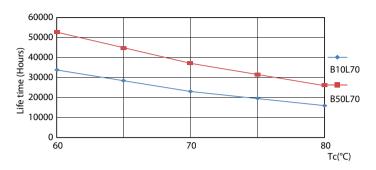


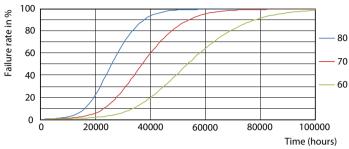
Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 830 T8



Life Expectancy Diagram

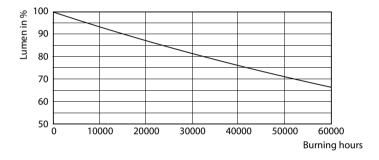
Lifetime





LifetimeVsTc





Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 830 T8



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