

Essential LED tubes T8 Mains

CorePro LEDtube 1200mm 16W 865 VWV T8

The Essential LEDtube is an affordable LED solution suitable for an easy replacement of T8 fluorescent lamps. Thanks to a unique design, Philips Essential LED tube T8 Mains can be directly installed in luminaires operating on mains power connection. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings — an environmentally friendly solution.

Product data

General Information					
Cap-Base	G13 [Medium Bi-Pin Fluorescent]				
Nominal lifetime	30,000 hour(s)				
Switching Cycle	200,000				
Lighting Technology	LED				
EU RoHS compliant	Yes				
Light Technical					
Color Code	865 [CCT of 6500K]				
Beam Angle (Nom)	240 degree(s)				
Luminous Flux	1,600 lm				
Color Designation	Cool Daylight				
Correlated Color Temperature (Nom)	6500 K				
Luminous Efficacy (rated) (Nom)	100.00 lm/W				
Color Consistency	<6				
Color rendering index (CRI)	80				
LLMF At End Of Nominal Lifetime (Nom) 70 %					

Operating and Electrical				
Line Frequency	50 to 60 Hz			
Input Frequency	50 to 60 Hz			
Power Consumption	16 W			
Lamp Current (Max)	162 mA			
Lamp Current (Min)	60 mA			
Starting Time (Nom)	0.5 s			
Warm-up time to 60% light	0.5 s			
Power Factor (Fraction)	0.9			
Voltage (Nom)	100-277 V			
Temperature				
Ambient temperature range	-20 °C to 45 °C			
T-Case Maximum (Nom)	55 °C			
Controls and Dimming				
Dimmable	No			

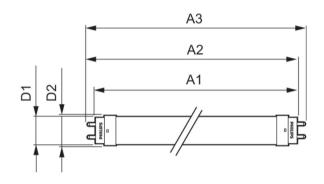
Datasheet, 2023, November 12 data subject to change

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Mechanical and Housing				
Product Length	1,200 mm			
Bulb Shape	Tube, single-ended			
Approval and Application				
Energy Saving Product	Yes			
Approval Marks	RoHS compliance UL certificate KEMA Keur			
	certificate			
Energy Consumption kWh/1000 h	- kWh			
Product Data				
Order product name	CorePro LEDtube 1200mm 16W 865 VWV T8			

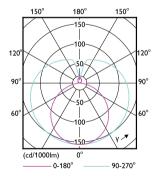
Full product name	CorePro LEDtube 1200mm 16W 865 VWV T8				
Full product code	871869959940900				
Order code	929001947611				
Material Nr. (12NC)	929001947611				
Numerator - Quantity Per Pack	1				
EAN/UPC - Product/Case	8718699599409				
Numerator - Packs per outer box	10				
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Dimensional drawing

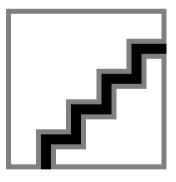


Product	D1	D2	A1	A2	А3
CorePro LEDtube 1200mm 16W 865	25.7 mm	28 mm	1,198 mm	1,205 mm	1,212 mm
VWV T8					

Photometric data



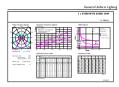
Light Distribution Diagram - CorePro LEDtube 1200mm 16W 865 VWV T8



Spectral Power Distribution Colour - CorePro LEDtube 1200mm 16W 865 VWV T8

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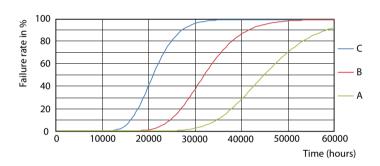
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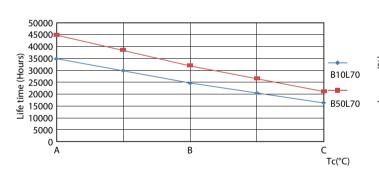
Calculus Photometrics 4.5 Philips Lighting R.V. Page: 17

General uniform lighting - CorePro LEDtube 1200mm 16W 865 VWV T8

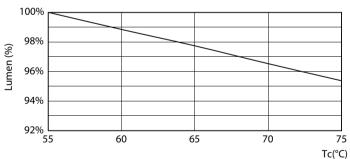
Lifetime



Life Expectancy Diagram - CorePro LEDtube 1200mm 16W 865 VWV T8



Life Expectancy Diagram - CorePro LEDtube 1200mm 16W 865 VWV T8

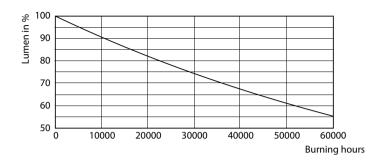


Life Expectancy Diagram - CorePro LEDtube 1200mm 16W 865 VWV T8

Lumen Maintenance Diagram - CorePro LEDtube 1200mm 16W 865 VWV T8

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Lifetime



Lumen Maintenance Diagram - CorePro LEDtube 1200mm 16W 865 VWV T8



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