PHILIPS Lighting



Essential LEDtube

ESSENTIAL LEDtube 1200mm 20W865 T8 AP I

Essential LEDtube is an affordable LED tube that is suitable for replacing T8 fluorescent lamps. 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	50,000	
Lighting Technology	LED	
EU RoHS compliant	Yes	
Light Technical		
Color Code	865 [CCT of 6500K]	
Beam Angle (Nom)	150 degree(s)	
Luminous Flux	1,600 lm	
Correlated Color Temperature (Nom)	6500 K	
Color Consistency	<6	
Color rendering index (CRI)	80	
LLMF At End Of Nominal Lifetime (Nom) 70 %		
Operating and Electrical		

Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	18 W
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	Instant full light s
Power Factor (Fraction)	0.9

Voltage (Nom)	220-240 V				
Temperature					
Ambient temperature range	-20 °C to 45 °C				
T-Case Maximum (Nom)	53 °C				
Controls and Dimming					
Dimmable	No				
Mechanical and Housing					
Product Length	1,200 mm				
Approval and Application					
Energy Saving Product	Yes				
Suitable For Accent Lighting	No				
Approval Marks	CE marking RoHS compliance KEMA Keur				
	certificate				
Energy Consumption kWh/1000 h	18 kWh				
Product Data					
Order product name	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I				
Full product name	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I				
Full product code	871829124632900				

Essential LEDtube

Order code	929000296708
Material Nr. (12NC)	929000296708
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718291246329

Numerator - Packs per outer box	10
EAN/UPC - Case	8718291246336

Dimensional drawing

Product	D1	D2	A1	A2	A3
ESSENTIAL LEDtube 1200mm	25.68 mm	28 mm	1,198.0 mm	1,205.0 mm	1,212.0 mm
20W865 T8 AP I					

Photometric data

120° / 180° / 120°



Light Distribution Diagram - ESSENTIAL LEDtube 1200mm 20W865 T8 AP I

Spectral Power Distribution Colour - ESSENTIAL LEDtube 1200mm 20W865 T8 AP I



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2023, December 6 - data subject to change

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