PHILIPS

PHILIPS Lighting

MASTER LEDtube Mains T5

MAS LEDtube 1200mm HE 16.5W 830 T5 EU

The new Philips Master LEDtube Mains T5 brings simplicity to your lighting project. You don't need to pay attention to the driver technology anymore. Thanks to a unique design, Philips MASTER LEDtube Mains T5 installs in luminaires operating on mains power connection. So simple to operate! . Perfectly safe, reliable & easy to install Philips MASTER LEDtube Mains T5 is the ideal alternative to standard fluorescent tubes to maximize value over lifetime with high energy saving and lower maintenance costs.

Product data

General Information	
Cap-Base	G5
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)	200 degree(s)
Luminous Flux	2,300 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	139 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

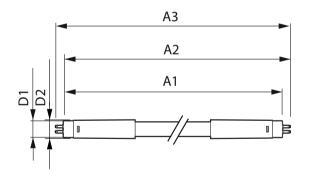
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	16.5 W
Lamp Current (Nom)	85 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
Ballast Compatibility	Mains
LED alternative to fluorescent lamp power	28 W
Inrush current at mains	7
Max. lamp no. on MCB B type 10A - Mains	76
Max. lamp no. on MCB B type 10A - EM ballast	-
without Compensation Capacitor.	

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Max. lamp no. on MCB B type 10A - EM ballast with	-
Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	121
Max. lamp no. on MCB B type 16A - EM ballast	-
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - EM ballast with	-
Compensation Capacitor.	
Temperature	
T-Case Maximum (Nom)	55 ℃
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1,200 mm
Bulb Shape	T5
Net Weight (Piece)	0.215 kg
Approval and Application	
Energy Efficiency Class	D
Energy Saving Product	Yes

Approval Marks	RoHS compliance		
Energy Consumption kWh/1000 h	17 kWh		
EPREL Registration Number	1476410		
CE mark	Yes		
EU RoHS compliant	Yes		
Flickering value (PstLM) - Flickering value as per EN	1		
61000-3-3			
Stroboscopic effect visibility measure (SVM)	0.4		
Ambient temperature range	-20 to +45 °C		
Product Data			
Order product name	MAS LEDtube 1200mm HE 16.5W		
	830 T5 EU		
Full product name	MAS LEDtube 1200mm HE 16.5W		
	830 T5 EU		
Full product code	871951433431100		
Order code	929003044402		
Material Nr. (12NC)	929003044402		
Numerator - Quantity Per Pack	1		
EAN/UPC - Product/Case	8719514334311		
Numerator - Packs per outer box	10		
EAN/UPC - Case	8719514334328		

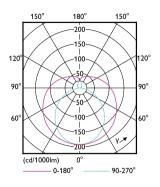
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HE 16.5W	15.7 mm	19 mm	1,149 mm	1,156.1 mm	1,163.2 mm
830 T5 EU					

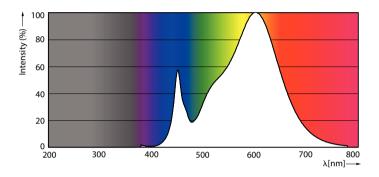
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Photometric data



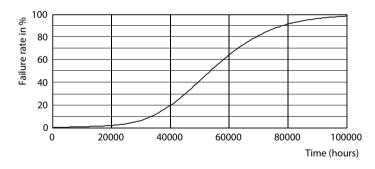
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Light Distribution Diagram - MAS LEDtube 1200mm HE 16.5W 830 T5 EU



Spectral Power Distribution Colour - MAS LEDtube 1200mm HE 16.5W 830 T5 EU

Lifetime



98% 96% 94% 92% 55 60 65 70 75 Tc(°C)

Life Expectancy Diagram

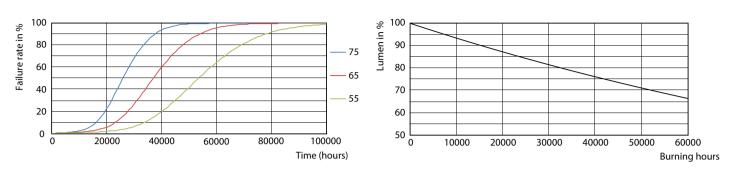
Lumen Maintenance Diagram - MAS LEDtube 1200mm HE 16.5W 830 T5 EU

General uniform lighting - MAS LEDtube 1200mm HE 16.5W 830 T5 EU

100%

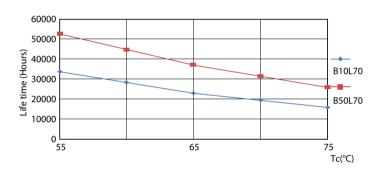
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Lifetime



FailureRate

Lumen Maintenance Diagram - MAS LEDtube 1200mm HE 16.5W 830 T5 EU



LifetimeVsTc



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