PHILIPS

# **PHILIPS** Lighting

# MASTER LEDtube Mains T5

# MAS LEDtube 1500mm HE 20W 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	2,800 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	140 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

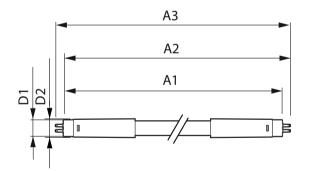
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	20 W
Lamp Current (Nom)	99 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
Ballast Compatibility	Mains
LED alternative to fluorescent lamp power	35 W
Inrush current at mains	7
Max. lamp no. on MCB B type 10A - Mains	63
Max. lamp no. on MCB B type 10A - EM ballast	-
without Compensation Capacitor.	

# **MASTER LEDtube Mains T5**

Max. lamp no. on MCB B type 10A - EM ballast	-
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	100
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 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1,500 mm
Bulb Shape	Т5
Net Weight (Piece)	0.176 kg
Approval and Application	
Energy Efficiency Class	D
Energy Saving Product	Yes

Approval Marks	RoHS compliance
Energy Consumption kWh/1000 h	20 kWh
EPREL Registration Number	1476403
CE 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
Product Data	
Order product name	MAS LEDtube 1500mm HE 20W
	830 T5 EU
Full product name	MAS LEDtube 1500mm HE 20W
	830 T5 EU
Full product code	871951433437300
Order code	929002421202
Material Nr. (12NC)	929002421202
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514334373
Numerator - Packs per outer box	10
EAN/UPC - Case	8719514334380

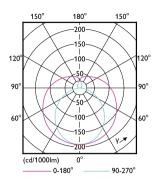
## Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1500mm HE 20W	15.7 mm	19 mm	1,449 mm	1,456.1 mm	1,463.2 mm
830 T5 EU					

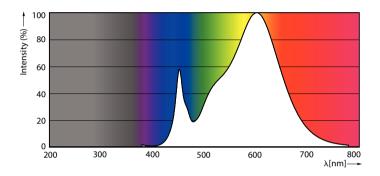
### MASTER LEDtube Mains T5

#### Photometric data



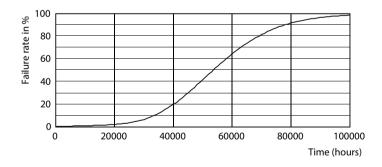
		1 x TLED 20W 3006K 9290634312
		1 x 2000 (w
Fully intends deputy	Questa estrutor depar	UOR depun
Without B	Orbania fanor sala	Contract Table
Witness and the		
Showed a		

Light Distribution Diagram - MAS LEDtube 1500mm HE 20W 830 T5 EU



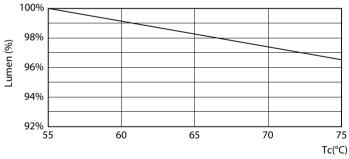
Spectral Power Distribution Colour - MAS LEDtube 1500mm HE 20W 830 T5 EU

#### Lifetime



Life Expectancy Diagram

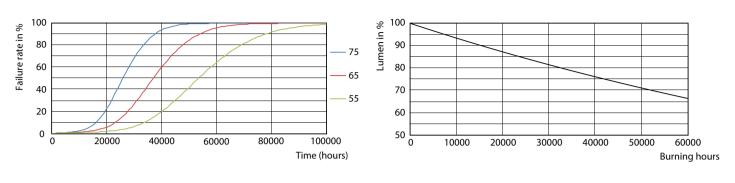
General uniform lighting - MAS LEDtube 1500mm HE 20W 830 T5 EU



Lumen Maintenance Diagram - MAS LEDtube 1500mm HE 20W 830 T5 EU

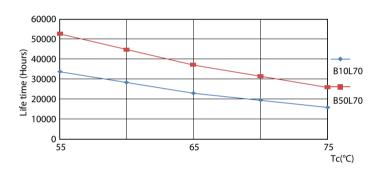
#### **MASTER LEDtube Mains T5**

#### Lifetime



FailureRate

Lumen Maintenance Diagram - MAS LEDtube 1500mm HE 20W 830 T5 EU



LifetimeVsTc



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