

# MASTER LEDtube T8 Ultra Efficient

## MAS LEDtube 1500mm UE 20W 840 T8

With energy prices rising and the EU's Green Deal<sup>2</sup> continuing to fund energy efficient building renovations, many are looking into make their company's lighting more sustainable. The new Philips MASTER LEDtube Ultra Efficient T8 is a true breakthrough on the way to more sustainable lighting. It replaces your current fluorescent tube or LED tube directly and offers immediately great energy cost reduction as well as a much longer lifetime!

### Product data

General information	
Cap base	G13 ROT (Rotating) [ Medium Bi-Pin Fluorescent]
EU RoHS compliant	Yes
Nominal lifetime (nom.)	70000 h
Switching cycle	200000
	Sphere
Tier	MASTER

Light technical	
Colour Code	840 [ CCT of 4,000 K]
Technical Beam Angle (Nom)	160 °
Lamp Luminous Flux 25°C EL (Nom)	3700 lm
Colour Designation	Cool White (CW)
Colour Temperature, horizontal (Nom)	4000 K
Lamp Luminous Efficacy EM (Nom)	185 lm/W
Colour consistency	<6
Colour Rendering Index,horiz (Nom)	80

LLMF at end of nominal lifetime (nom.) 70 %	
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Operating and electrical	
Input frequency	50 to 60 Hz
Power (Rated) (Nom)	20 W
Lamp current (max.)	103 mA
Lamp current (min.)	85 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light (nom.)	0.5 s
Power factor (nom.)	0.9
Voltage (Nom)	220-240 V

Temperature	
T-ambient (max.)	45 °C
T-ambient (min.)	-20 °C
T storage (max.)	65 °C
T storage (min.)	-40 °C
T-Case maximum (nom.)	60 °C

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## Controls and dimming

Dimmable	No
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## Mechanical and housing

Lamp Finish	Frosted
Bulb material	Glass
Product length	59-1/16 in
Bulb shape	Tube, double-ended

## Approval and application

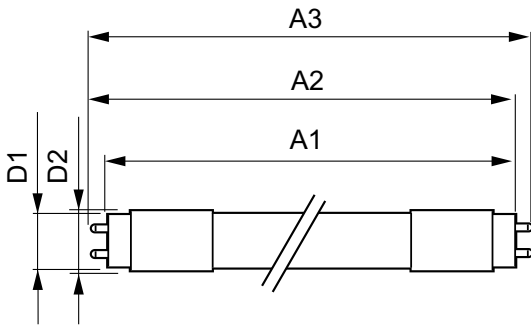
Energy Efficiency Class	B
Energy-saving product	Yes
Approval marks	TUV
Approval marks	RoHS compliance CE marking KEMA Keur certificate

Energy consumption kWh/1,000 hours	20 kWh
	1205538

## Product data

Full product code	871951433976700
Order product name	MAS LEDtube 1500mm UE 20W 840 T8
EAN/UPC – product	8719514339767
Order code	929003067202
SAP numerator – quantity per pack	1
Numerator – packs per outer box	10
SAP material	929003067202
Net Weight (Piece)	0.285 kg

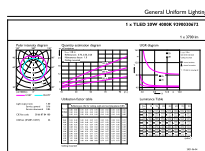
## Dimensional drawing



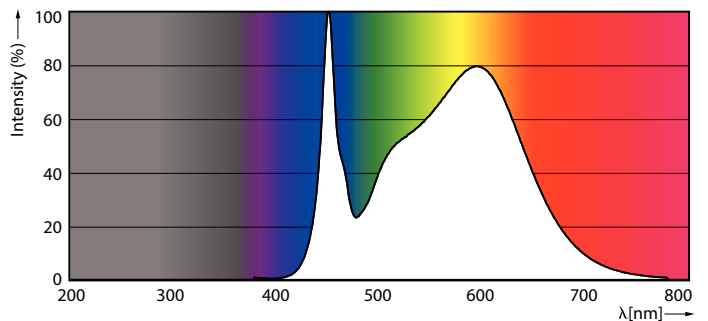
MAS LEDtube 1500mm UE 20W 840 T8

Product	D1	D2	A1	A2	A3
MAS LEDtube 1500mm UE 20W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm

## Photometric data



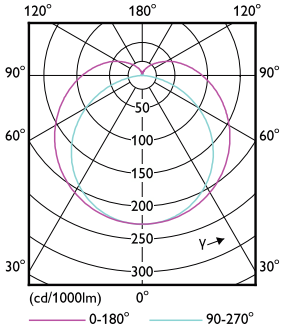
General uniform lighting



Spectral Power Distribution Colour

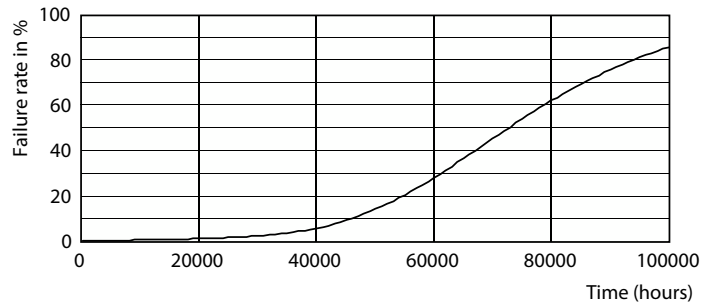
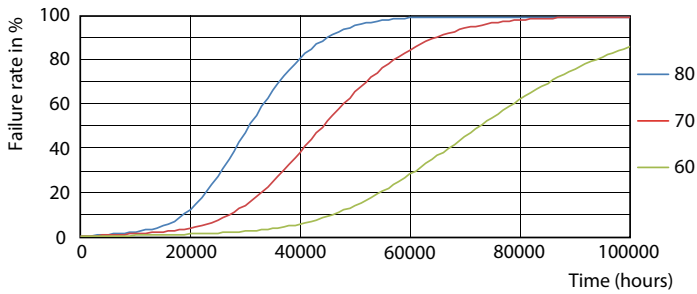
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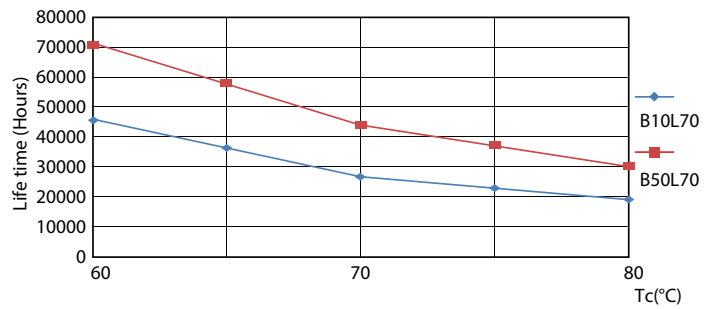
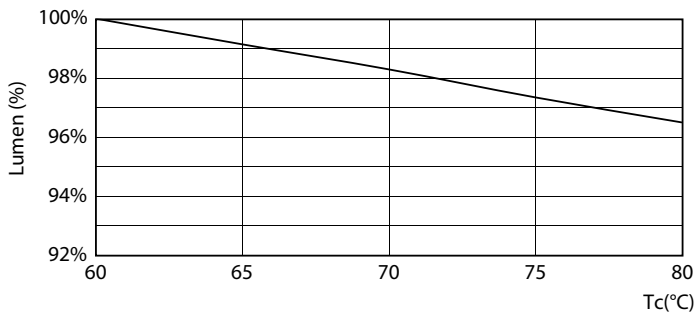
Light Distribution Diagram

## Lifetime



LEDtube MAS 20W 70K FailureRate-LED

Life Expectancy Diagram



LumenVsTc

LEDtube MAS 20W 70K LifetimeVsTc-LED

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## Lifetime



Lumen Maintenance Diagram

