



MASTER LEDtube T8 Ultra Efficient



MAS LEDtube 1500mm UE 20W 840 T8

With energy prices rising and the EU's Green Deal² 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
Flux measurement reference	Sphere
Light technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 °
Luminous Flux (Nom)	3700 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	185 lm/W
Color Consistency	<6
Color Rendering Index (Nom)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and electrical	
Input Frequency	50 to 60 Hz
Power (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-Ambient (Min)-DUP(do not use)	-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

Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1500 mm
Bulb Shape	Tube, double-ended

Approval and application

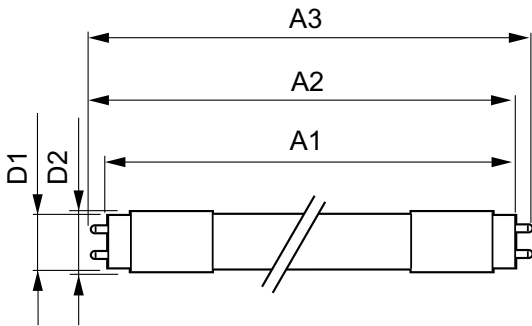
Energy Efficiency Class	B
Energy Saving Product	Yes
Approval Marks	RoHS compliance TUV CE marking KEMA Keur certificate

Energy Consumption kWh/1000 h	20 kWh
EPREL Registration Number	1205538

Product data

Full product code	871951433976700
Order product name	MAS LEDtube 1500mm UE 20W 840 T8
EAN/UPC - Product	8719514339767
Order code	929003067202
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	10
Material Nr. (12NC)	929003067202
Net Weight (Piece)	0.285 kg

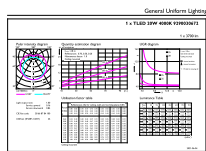
Dimensional drawing



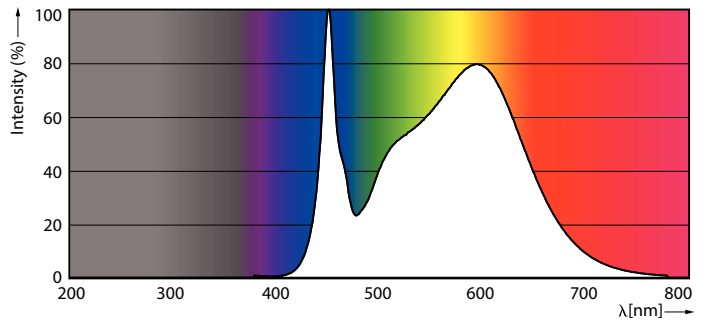
MAS LEDtube 1500mm UE 20W 840 T8

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



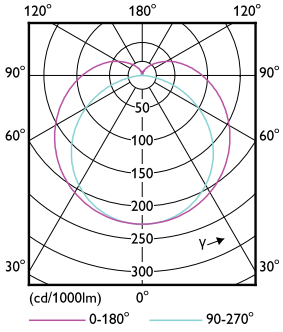
General uniform lighting



Spectral Power Distribution Colour

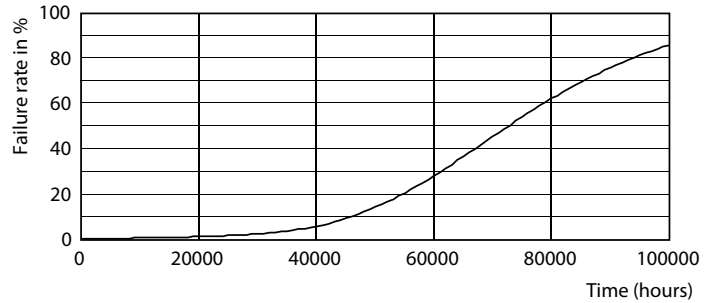
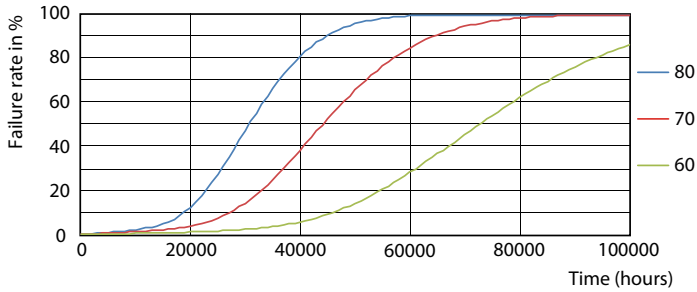
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Photometric data



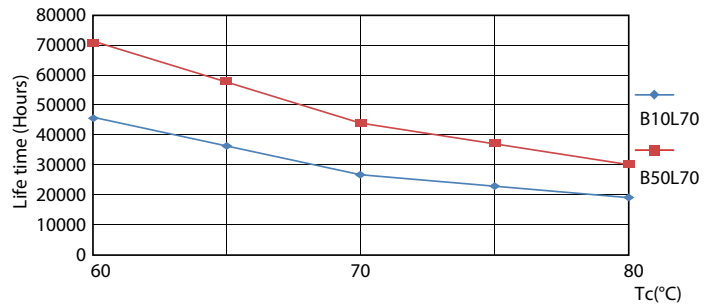
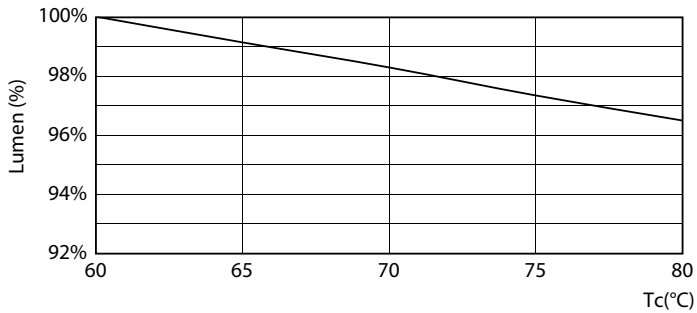
Light Distribution Diagram

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

