



MASTER LEDtube T8 UltraEfficient



MAS LEDtube 1200mm UE 13.5W 830 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
Nominal lifetime	75,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
Light Technical	
Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	2,300 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	170 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Operating and Electrical	
Input Frequency	50 to 60 Hz
Power Consumption	13.5 W
Lamp Current (Max)	69 mA
Lamp Current (Min)	56 mA
Starting Time (Nom)	1 s
Warm-up time to 60% light	1 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
Ballast Compatibility	EM/Mains
LED alternative to fluorescent lamp power	36 W
Inrush current at mains	3.87
Max. lamp no. on MCB B type 10A - Mains	110
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	110
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	15
Max. lamp no. on MCB B type 16A - Mains	175

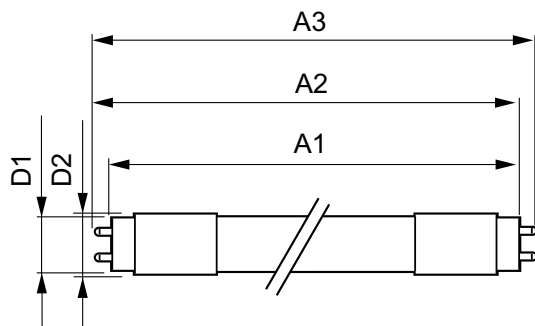
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Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	175
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	25
Temperature	
T-Case Maximum (Nom)	45 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,200 mm
Bulb Shape	T8
Net Weight (Piece)	0.230 kg
Approval and Application	
Energy Efficiency Class	C
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate

Energy Consumption kWh/1000 h	14 kWh
EPREL Registration Number	1708533
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.5
Stroboscopic effect visibility measure (SVM)	0.2
Ambient temperature range	-20 to +45 °C

Product Data	
Order product name	MAS LEDtube 1200mm UE 13.5W 830 T8
Full product name	MAS LEDtube 1200mm UE 13.5W 830 T8
Full product code	872016927690100
Order code	929003745102
Material Nr. (12NC)	929003745102
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169276901
Numerator - Packs per outer box	10
EAN/UPC - Case	8720169276918

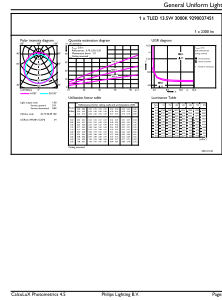
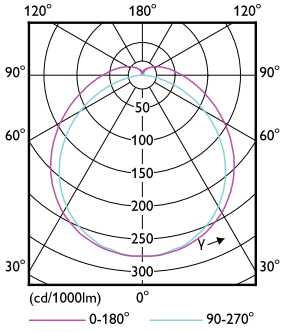
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE 13.5W 830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

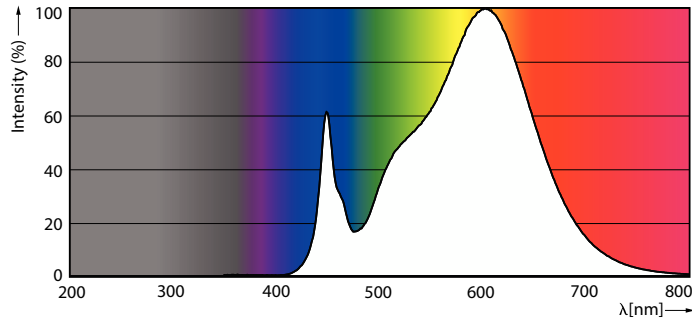
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Photometric data



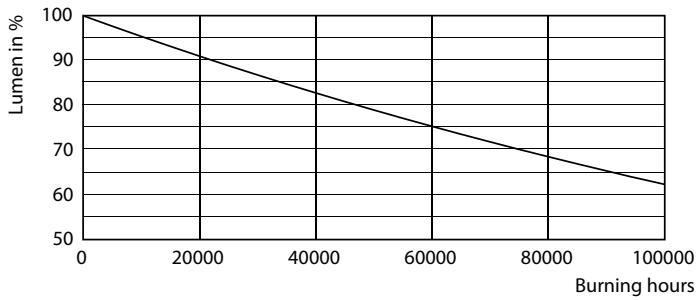
Light Distribution Diagram - MAS LEDtube 1200mm UE 13.5W 830 T8

General uniform lighting - MAS LEDtube 1200mm UE 13.5W 830 T8

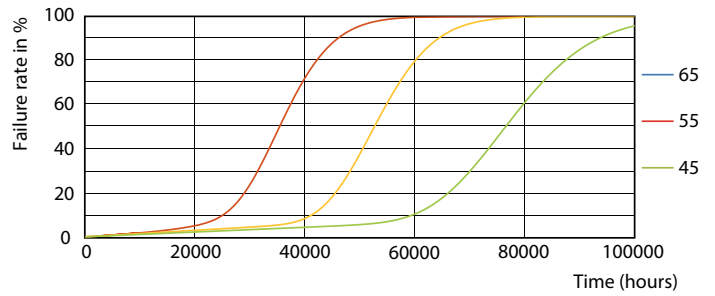


Spectral Power Distribution Colour - MAS LEDtube 1200mm UE 13.5W 830 T8

Lifetime



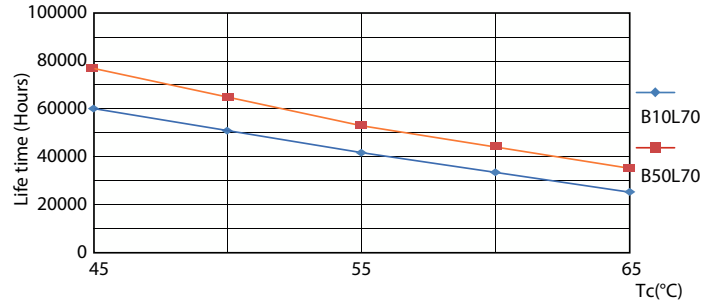
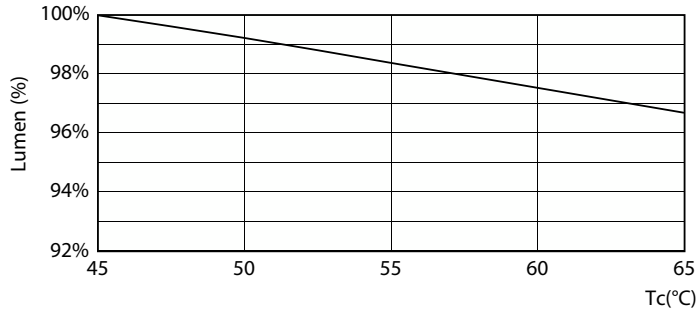
Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 13.5W 830 T8



FailureRate

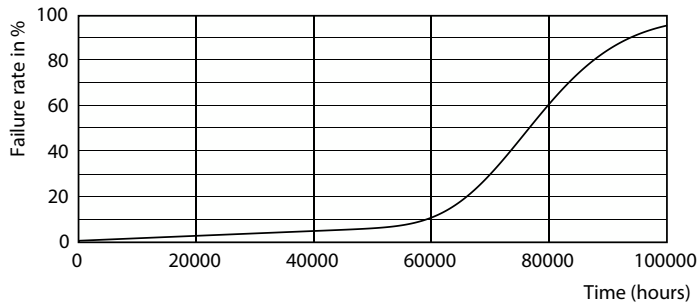
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 13.5W 830 T8

LifetimeVsTc



Life Expectancy Diagram

