



# MASTER Value T8 UltraEfficient



## MAS LEDtube VLE 1200mm UE 14W 840 T8

Welcome the new Philips MASTER Value LEDtube UltraEfficient - your solution for upgrading more price-sensitive customers to ultra-efficient LED. Thanks to the cost-effective design, high energy efficiency and long service life, the new LED tube can convince with a payback time of less than 2 months, when upgrading from fluorescent tubes.

### Product data

General Information	
Cap-Base	G13
Nominal lifetime	75,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	190 degree(s)
Luminous Flux	2,600 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 (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RGO

Operating and Electrical	
Input Frequency	50 to 60 Hz
Power Consumption	14 W
Lamp Current (Max)	70 mA
Lamp Current (Min)	65 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	EM/Mains
LED alternative to fluorescent lamp power	36 W
Inrush current at mains	4.6
Max. lamp no. on MCB B type 10A - Mains	122
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	122
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	21
Max. lamp no. on MCB B type 16A - Mains	196
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	196

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Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	33
<b>Temperature</b>	
T-Case Maximum (Nom)	50 °C
<b>Controls and Dimming</b>	
Dimmable	No
<b>Mechanical and Housing</b>	
Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1,200 mm
Bulb Shape	T8
Net Weight (Piece)	0.185 kg
<b>Approval and Application</b>	
Energy Efficiency Class	B
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	14 kWh
EPREL Registration Number	1996489
CE mark	Yes

EU RoHS compliant	Yes
LED Innovations	UltraEfficient
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 to +45 °C

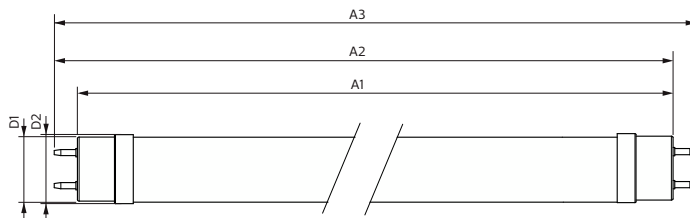
## Application Conditions

can it be used in closed luminaires	Yes
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## Product Data

Order product name	MAS LEDtube VLE 1200mm UE 14W 840 T8
Full product name	MAS LEDtube VLE 1200mm UE 14W 840 T8
Full product code	872016931671300
Order code	929003807402
Material Nr. (12NC)	929003807402
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169316713
Numerator - Packs per outer box	20
EAN/UPC - Case	8720169316720

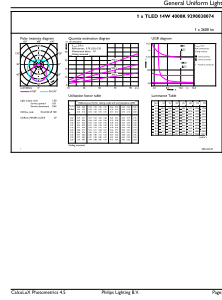
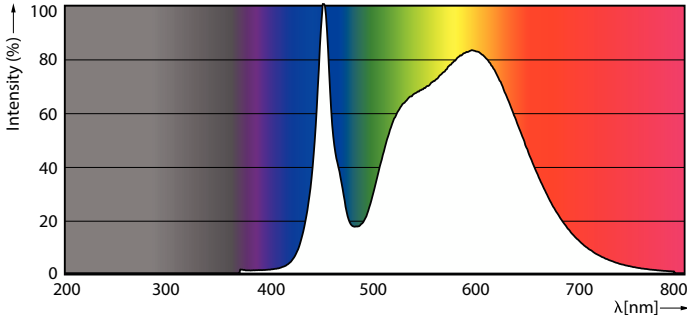
## Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube VLE 1200mm UE 14W 840 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm

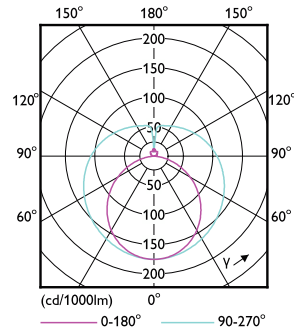
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## Photometric data



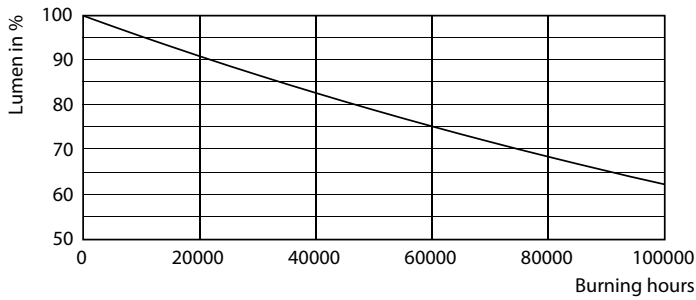
Spectral Power Distribution Colour - MAS LEDtube VLE 1200mm UE 14W 840 T8

General uniform lighting - MAS LEDtube VLE 1200mm UE 14W 840 T8

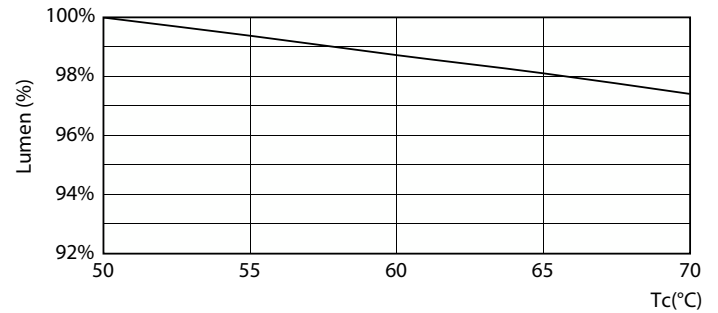


Light Distribution Diagram - MAS LEDtube VLE 1200mm UE 14W 840 T8

## Lifetime



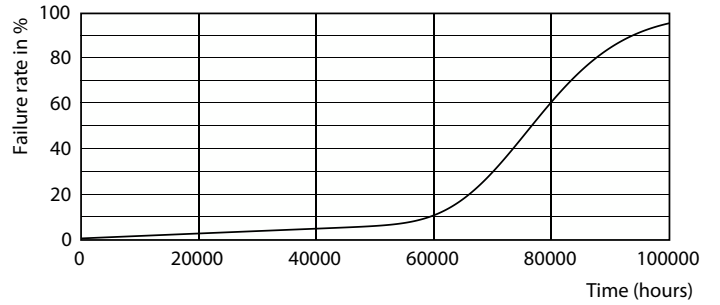
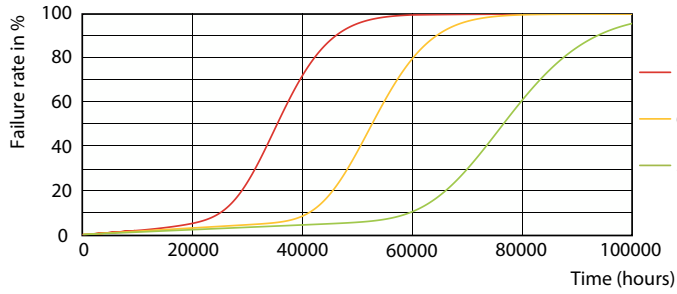
Lumen Maintenance Diagram - MAS LEDtube VLE 1200mm UE 14W 840 T8



Lumen Maintenance Diagram - MAS LEDtube VLE 1200mm UE 14W 840 T8

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## Lifetime



LEDtube-75K-5070-FailureRate-LED

Life Expectancy Diagram



LifetimeVsTc

