

MASTER Value T8 UltraEfficient



MAS LEDtube VLE 1200mm UE 14W 840 T8

MASTER Value, LEDtube, T8, EM/Mains, 1200 mm, 14 W, 36W
TL-D, 4000 K, 2600 lm, CRI 80, 75000 hour(s)

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		Color rendering index (CRI)	
Cap-Base	G13		80
Nominal lifetime	75,000 hour(s)	LLMF At End Of Nominal Lifetime (Nom)	70 %
Switching Cycle	200,000	Photobiological safety according to EN 62471	RG0
Lighting Technology	LEDtube	Operating and Electrical	
Flux measurement reference	Sphere	Input Frequency	50 to 60 Hz
Warranty period	5 years	Power Consumption	14 W
Light Technical		Lamp Current (Max)	70 mA
Color Code	840 [CCT of 4000K]	Lamp Current (Min)	65 mA
Beam Angle (Nom)	190 degree(s)	Starting Time (Nom)	0.5 s
Luminous Flux	2,600 lm	Warm-up time to 60% light	0.5 s
Color Designation	Cool White (CW)	Power Factor (Fraction)	0.9
Correlated Color Temperature (Nom)	4000 K	Voltage (Nom)	220-240 V
Luminous Efficacy (rated) (Nom)	185 lm/W	LED alternative to fluorescent lamp power	36W TL-D
Color Consistency	<6	Inrush current at mains	4.6
		Max. lamp no. on MCB B type 10A - Mains	122

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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
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	33
Ballast Compatibility	EM/Mains

Temperature

T-Case Maximum (Nom)	50 °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	1,200 mm
Bulb Shape	T8
Net Weight (Piece)	0.185 kg

Approval and Application

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

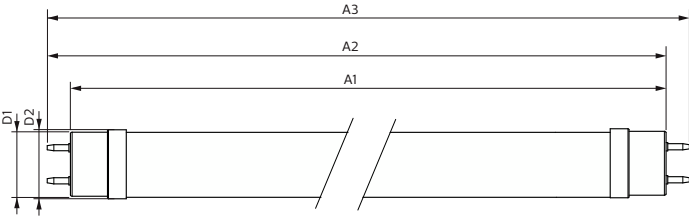
Application Conditions

can it be used in closed luminaires	Yes
Wireless Technology	Not applicable

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

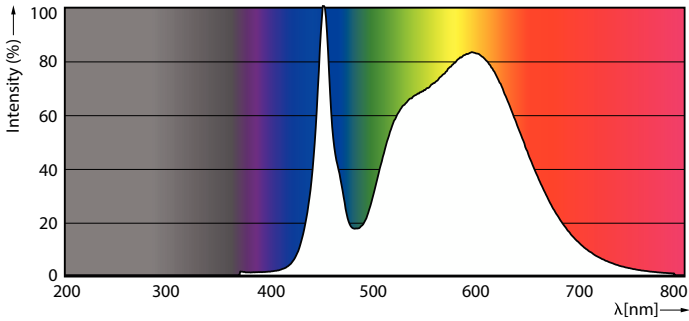
Dimensional drawing



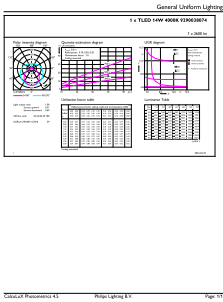
Product	D1	D2	A1	A2	A3
MAS LEDtube VLE 1200mm UE 14W 840 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm

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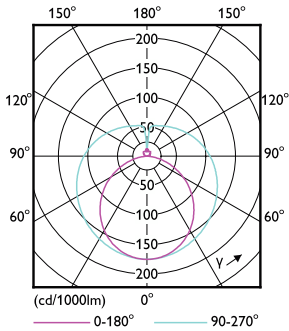
Photometric data



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

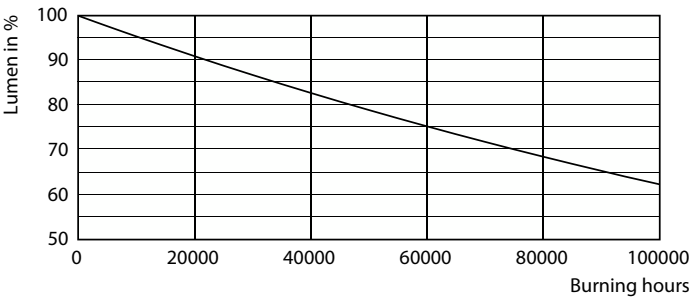


General uniform lighting - MAS LEDtube VLE 1200mm UE 14W 840 T8

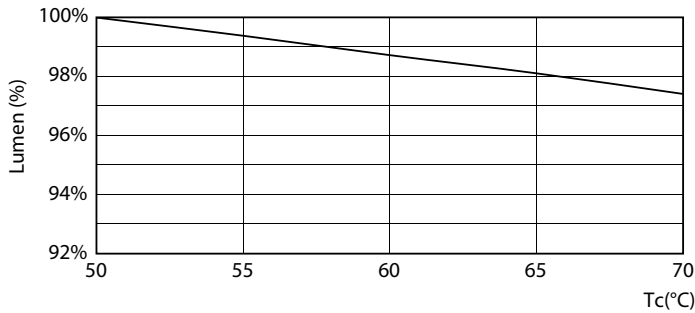


Light Distribution Diagram - MAS LEDtube VLE 1200mm UE 14W 840 T8

Lifetime



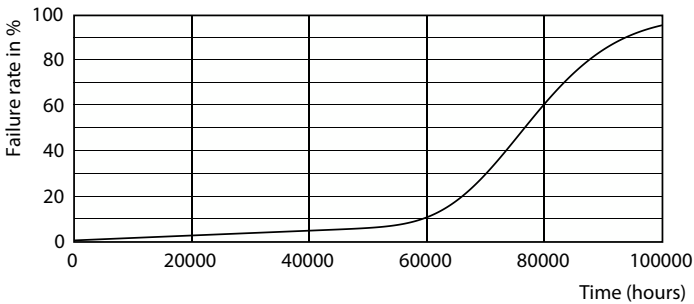
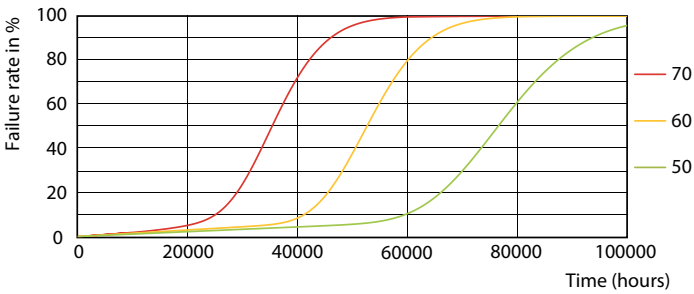
Lumen Maintenance Diagram - MAS LEDtube VLE 1200mm UE 14W 840 T8



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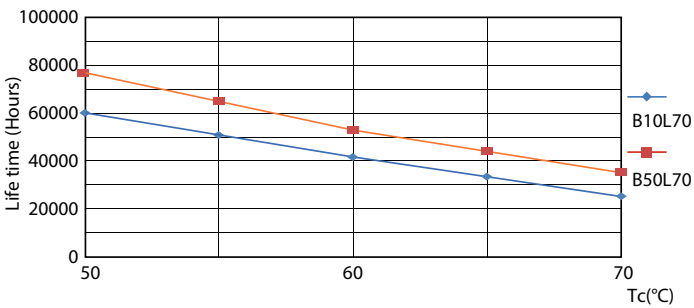
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Lifetime



LEDtube-75K-5070-FailureRate-LED

Life Expectancy Diagram



LifetimeVsTc

