



# MASTER Value LED tube EM/Mains T8

## MASTER LEDtube VLE 1500mm HO 20.5W 840 T8

MASTER Value, LEDtube, T8, EM/Mains, 1500 mm, 220-240 V, 20.5 W, 58W TL-D, 4000 K, 3100 lm, CRI 80, 60000 hour(s)

A high-performance LED solution, the professional MASTER Value LED tube is ideal for replacing T8 fluorescent lamps using EM ballast or installing directly on the mains. This product provides an optimal combination of value and performance – for use in all general lighting, office, industry, retail, and hospitality applications. The unique design of this LED T8 tube light offers wide compatibility, safety and fast installation, as well as instant energy savings.

### Product data

General Information	
Cap-Base	G13
Nominal lifetime	60,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	190 degree(s)
Luminous Flux	3,100 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	151 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	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	20.5 W
Lamp Current (Max)	97 mA
Lamp Current (Min)	89 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
LED alternative to fluorescent lamp power	58W TL-D

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Inrush current at mains	8.2
Max. lamp no. on MCB B type 10A – Mains	75
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	75
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	10
Max. lamp no. on MCB B type 16A – Mains	120
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	120
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	16
Ballast Compatibility	EM/Mains

## Temperature

T-Case Maximum (Nom)	65 °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	1,500 mm
Bulb Shape	T8
Net Weight (Piece)	0.270 kg

## Approval and Application

Energy Efficiency Class	D
Energy Saving Product	Yes

Approval Marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	21 kWh
EPREL Registration Number	1095869
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) – Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 °C to 45 °C

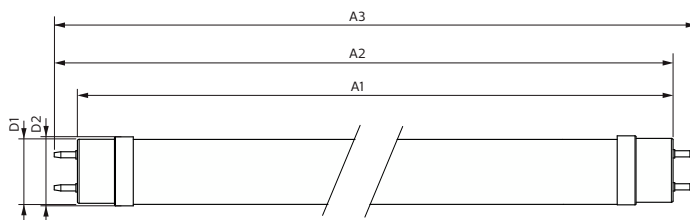
## Application Conditions

Wireless Technology	Not applicable
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## Product Data

Order product name	MAS LEDtube VLE 1500mm HO 20.5W 840 T8
Full product name	MASTER LEDtube VLE 1500mm HO 20.5W 840 T8
Full product code	871869964693600
Order code	64693600
Material Nr. (12NC)	929002021802
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8718699646936
Numerator – Packs per outer box	10
EAN/UPC – Case	8718699646943

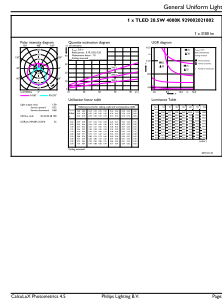
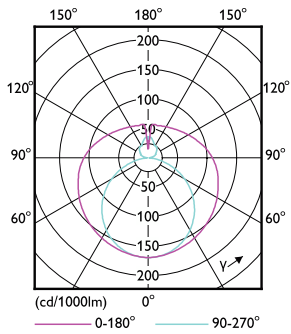
## Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube VLE 1500mm HO 20.5W 840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

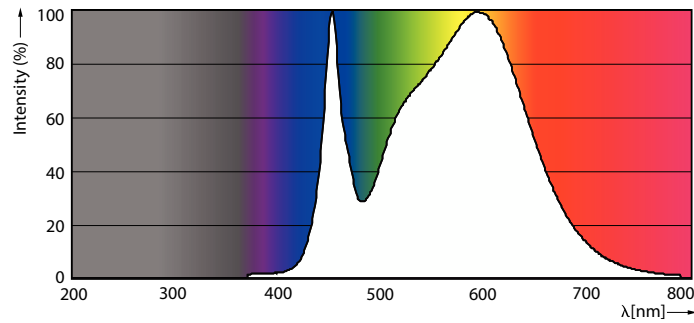
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## Photometric data



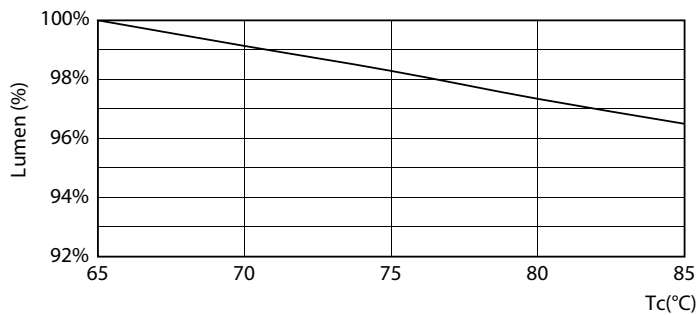
Light Distribution Diagram - MAS LEDtube VLE 1500mm HO 20.5W 840 T8

General uniform lighting - MAS LEDtube VLE 1500mm HO 20.5W 840 T8

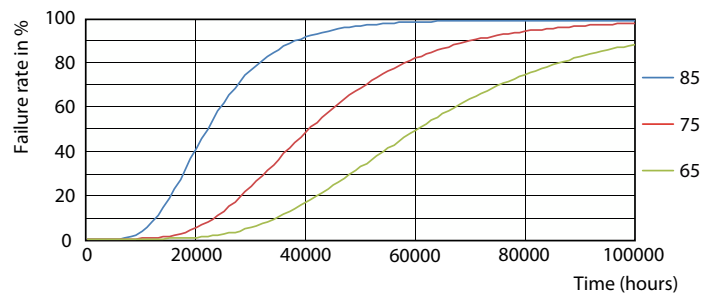


Spectral Power Distribution Colour - MAS LEDtube VLE 1500mm HO 20.5W 840 T8

## Lifetime



Lumen Maintenance Diagram - MAS LEDtube VLE 1500mm HO 20.5W 840 T8



FailureRate

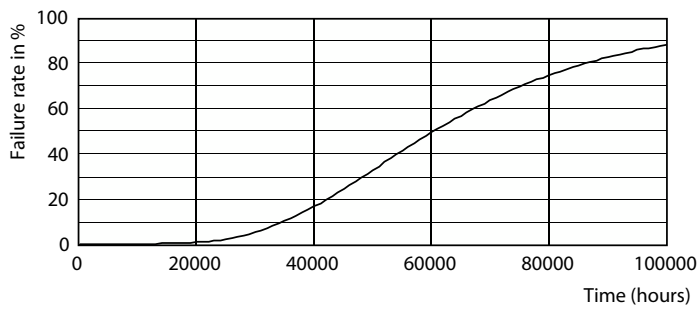
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## Lifetime



LifetimeVsTc

Lumen Maintenance Diagram - MAS LEDtube VLE 1500mm HO 20.5W 840 T8



Life Expectancy Diagram

