

# MASTER Value LEDtube T8

## MASTER LEDtube VLE 1500mm UO 23W 840 T8

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 [ Medium Bi-Pin Fluorescent]
CE mark	Yes
EU RoHS compliant	Yes
Nominal lifetime (nom.)	60000 h
Switching cycle	200000
	Sphere
Tier	MASTER Value

Light technical	
Colour Code	841 [ CCT of 4100K (841)]
Beam Angle (Nom)	190 °
Luminous flux (nom.)	3700 lm
Colour designation	Cool White (CW)
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	160 lm/W
Colour consistency	<6
Colour rendering index (nom.)	80

LLMF at end of nominal lifetime (nom.) 70 %	
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Operating and electrical	
Input frequency	50 to 60 Hz
Power (Rated) (Nom)	23 W
Lamp current (max.)	108 mA
Lamp current (min.)	99 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 storage (max.)	65 °C
T storage (min.)	-40 °C
T-Case maximum (nom.)	65 °C

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## Controls and dimming

Dimmable	No
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## Mechanical and housing

Lamp Finish	Frosted
Bulb material	Glass
Product length	1500 mm
Bulb shape	Tube, double-ended

## Approval and application

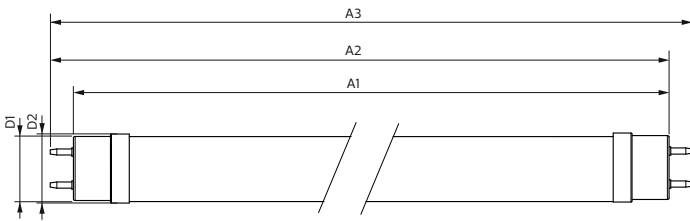
Energy Efficiency Class	C
Energy-saving product	Yes
Approval marks	RoHS compliance TUV CE marking KEMA Keur certificate

Energy consumption kWh/1,000 hours	23 kWh
	1095875

## Product data

Full product code	871951431688100
Order product name	MASTER LEDtube VLE 1500mm UO 23W 840 T8
EAN/UPC – product	8719514316881
Order code	31688100
SAP numerator – quantity per pack	1
Numerator – packs per outer box	10
SAP material	929002998002
Net Weight (Piece)	0.270 kg

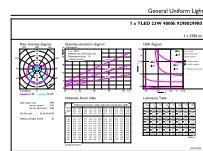
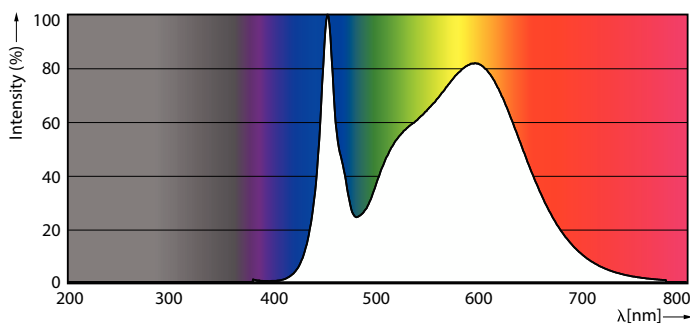
## Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube VLE 1500mm UO 23W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm

## MASTER LEDtube VLE 1500mm UO 23W 840 T8

## Photometric data



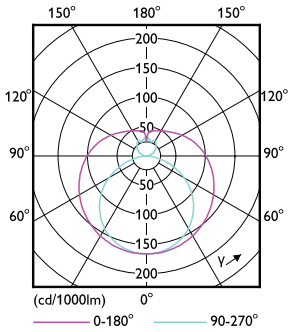
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## Spectral Power Distribution Colour

## General uniform lighting

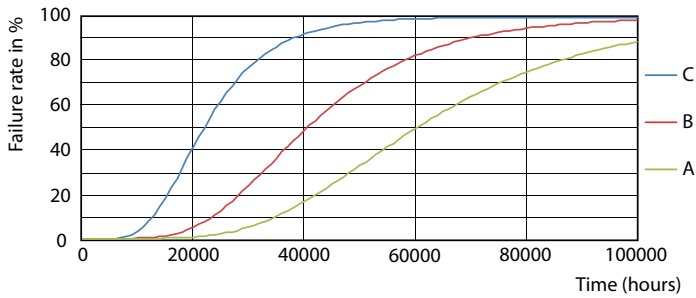
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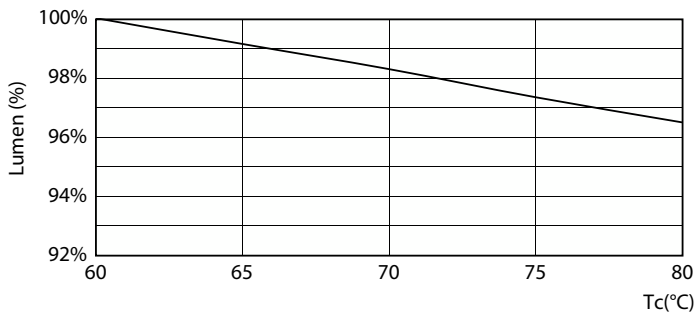


Light Distribution Diagram

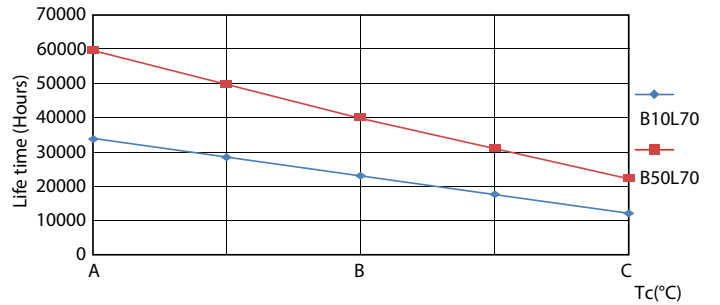
## Lifetime



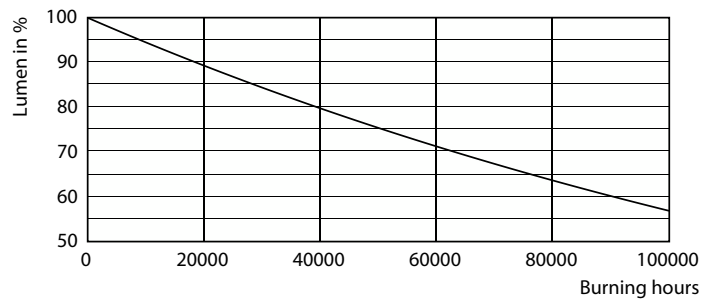
FailureRate



LumenVsTc



LifetimeVsTc



Lumen Maintenance Diagram

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## Lifetime



### Life Expectancy Diagram

