



Universal T8 LEDtube lighting now easier and simpler than ever

Master Value LEDtube Universal T8

The new Philips MASTER LEDtube Universal T8 brings ease and simplicity to your lighting project. That's because you do not need to match the driver technology anymore: a unique design enables the Philips MASTER LEDtube Universal T8 to directly fit in luminaires operating on either electromagnetic ballasts or HF electronic ballasts or mains power connection. It is so simple to operate and you no longer need to stock two types of tubes! Perfectly safe, reliable & easy to install Philips MASTER LEDtube Universal T8 is the ideal alternative to standard fluorescent tubes to maximize value over lifetime with high energy saving and lower maintenance costs.

Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to longer lifetime than conventional lamps
- Fastest and easiest way to upgrade existing luminaires to LED technology through a completely safe product and installation process

Features

- Replacement of existing T8 lamps on both EM/HF ballast and mains power connection installation
- Energy savings compared with fluorescent tubes
- Long lifetime
- InstantFit technology for largest ballast compatibility
- No mercury

Application

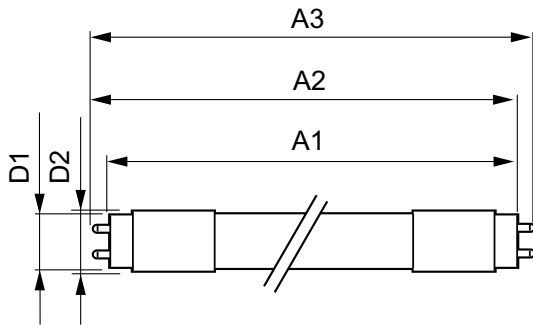
- Office, shop, education, retail
- Industrial facilities and warehouses

Master Value LEDtube Universal T8

Versions



Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube VLE UN 1500mm UO 24W830 T8	25.7 mm	28 mm	1500 mm	1505.9 mm	1514.2 mm
MAS LEDtube VLE UN 1200mm UO 16W830 T8	25.7 mm	28 mm	1199.4 mm	1205.3 mm	1213.6 mm
MAS LEDtube VLE UN 1200mm UO 16W865 T8	25.7 mm	28 mm	1199.4 mm	1205.3 mm	1213.6 mm
MAS LEDtube VLE UN 1500mm UO 24W865 T8	25.7 mm	28 mm	1500 mm	1505.9 mm	1514.2 mm
MAS LEDtube VLE UN 1200mm UO 16W840 T8	25.7 mm	28 mm	1199.4 mm	1205.3 mm	1213.6 mm
MAS LEDtube VLE UN 1500mm UO 24W840 T8	25.7 mm	28 mm	1500 mm	1505.9 mm	1514.2 mm
MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	26 mm	28 mm	1199 mm	1205 mm	1213 mm
MAS LEDtube VLE UN 1500mm UO 23W830 T8	26 mm	28 mm	1500 mm	1506 mm	1514 mm
MAS LEDtube VLE UN 1500mm UO 23W840 T8	26 mm	28 mm	1500 mm	1506 mm	1514 mm
MAS LEDtube VLE UN 1500mm UO 23W865 T8	26 mm	28 mm	1500 mm	1506 mm	1514 mm
MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	26 mm	28 mm	1199 mm	1205 mm	1213 mm
MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	26 mm	28 mm	1199 mm	1205 mm	1213 mm

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Controls and Dimming

Dimmable	No
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Operating and Electrical

Input Frequency	50 to 60 Hz
Voltage (Nom)	220-240 V
Starting Time (Nom)	0.5 s

General Information

Cap-Base	G13
Switching Cycle	50000X

Light Technical

Llmf At End Of Nominal Lifetime (Nom)	70 %
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Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	Tube, double-ended

Temperature

T-Ambient (Max)	45 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929002333002	MAS LEDtube VLE UN 1200mm UO 16W830 T8	16 kWh
929002333102	MAS LEDtube VLE UN 1200mm UO 16W840 T8	16 kWh
929002333202	MAS LEDtube VLE UN 1200mm UO 16W865 T8	16 kWh
929002333302	MAS LEDtube VLE UN 1500mm UO 24W830 T8	24 kWh
929002333402	MAS LEDtube VLE UN 1500mm UO 24W840 T8	24 kWh
929002333502	MAS LEDtube VLE UN 1500mm UO 24W865 T8	24 kWh
929002997002	MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	16 kWh
929002997102	MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	16 kWh
929002997202	MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	16 kWh
929002997302	MAS LEDtube VLE UN 1500mm UO 23W830 T8	23 kWh
929002997402	MAS LEDtube VLE UN 1500mm UO 23W840 T8	23 kWh
929002997502	MAS LEDtube VLE UN 1500mm UO 23W865 T8	23 kWh

Operating and Electrical

Order Code	Full Product Name	Power (Rated) (Nom)
929002333002	MAS LEDtube VLE UN 1200mm UO 16W830 T8	16 W
929002333102	MAS LEDtube VLE UN 1200mm UO 16W840 T8	16 W
929002333202	MAS LEDtube VLE UN 1200mm UO 16W865 T8	16 W
929002333302	MAS LEDtube VLE UN 1500mm UO 24W830 T8	24 W
929002333402	MAS LEDtube VLE UN 1500mm UO 24W840 T8	24 W
929002333502	MAS LEDtube VLE UN 1500mm UO 24W865 T8	24 W

Order Code	Full Product Name	Power (Rated) (Nom)
929002997002	MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	15.5 W
929002997102	MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	15.5 W
929002997202	MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	15.5 W
929002997302	MAS LEDtube VLE UN 1500mm UO 23W830 T8	23 W
929002997402	MAS LEDtube VLE UN 1500mm UO 23W840 T8	23 W
929002997502	MAS LEDtube VLE UN 1500mm UO 23W865 T8	23 W

General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)
929002333002	MAS LEDtube VLE UN 1200mm UO 16W830 T8	50000 h
929002333102	MAS LEDtube VLE UN 1200mm UO 16W840 T8	50000 h
929002333202	MAS LEDtube VLE UN 1200mm UO 16W865 T8	50000 h
929002333302	MAS LEDtube VLE UN 1500mm UO 24W830 T8	50000 h
929002333402	MAS LEDtube VLE UN 1500mm UO 24W840 T8	50000 h
929002333502	MAS LEDtube VLE UN 1500mm UO 24W865 T8	50000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)
929002997002	MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	60000 h
929002997102	MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	60000 h
929002997202	MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	60000 h
929002997302	MAS LEDtube VLE UN 1500mm UO 23W830 T8	60000 h
929002997402	MAS LEDtube VLE UN 1500mm UO 23W840 T8	60000 h
929002997502	MAS LEDtube VLE UN 1500mm UO 23W865 T8	60000 h

Light Technical (1/2)

Master Value LEDtube Universal T8

Order Code	Full Product Name	Beam	Correlated		Color
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929002333002	MAS LEDtube VLE UN 1200mm UO 16W830 T8	240 °	830	3000 K	83
929002333102	MAS LEDtube VLE UN 1200mm UO 16W840 T8	240 °	840	4000 K	83
929002333202	MAS LEDtube VLE UN 1200mm UO 16W865 T8	240 °	865	6500 K	83
929002333302	MAS LEDtube VLE UN 1500mm UO 24W830 T8	240 °	830	3000 K	83
929002333402	MAS LEDtube VLE UN 1500mm UO 24W840 T8	240 °	840	4000 K	83
929002333502	MAS LEDtube VLE UN 1500mm UO 24W865 T8	240 °	865	6500 K	83

Order Code	Full Product Name	Beam	Correlated		Color
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929002997002	MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	190 °	830	3000 K	80
929002997102	MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	190 °	840	4000 K	80
929002997202	MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	190 °	865	6500 K	80
929002997302	MAS LEDtube VLE UN 1500mm UO 23W830 T8	190 °	830	3000 K	80
929002997402	MAS LEDtube VLE UN 1500mm UO 23W840 T8	190 °	840	4000 K	80
929002997502	MAS LEDtube VLE UN 1500mm UO 23W865 T8	190 °	865	6500 K	80

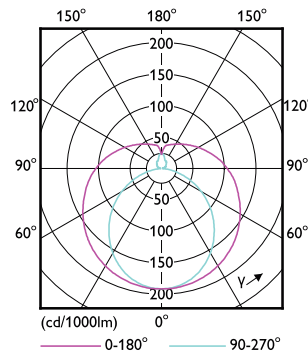
Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Nom)
929002333002	MAS LEDtube VLE UN 1200mm UO 16W830 T8	2300 lm
929002333102	MAS LEDtube VLE UN 1200mm UO 16W840 T8	2500 lm
929002333202	MAS LEDtube VLE UN 1200mm UO 16W865 T8	2500 lm
929002333302	MAS LEDtube VLE UN 1500mm UO 24W830 T8	3400 lm
929002333402	MAS LEDtube VLE UN 1500mm UO 24W840 T8	3700 lm
929002333502	MAS LEDtube VLE UN 1500mm UO 24W865 T8	3700 lm

Order Code	Full Product Name	Luminous Flux (Nom)
929002997002	MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	2300 lm
929002997102	MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	2500 lm
929002997202	MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	2500 lm
929002997302	MAS LEDtube VLE UN 1500mm UO 23W830 T8	3400 lm
929002997402	MAS LEDtube VLE UN 1500mm UO 23W840 T8	3700 lm
929002997502	MAS LEDtube VLE UN 1500mm UO 23W865 T8	3700 lm

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002333002	MAS LEDtube VLE UN 1200mm UO 16W830 T8	50 °C
929002333102	MAS LEDtube VLE UN 1200mm UO 16W840 T8	50 °C
929002333202	MAS LEDtube VLE UN 1200mm UO 16W865 T8	50 °C
929002333302	MAS LEDtube VLE UN 1500mm UO 24W830 T8	50 °C
929002333402	MAS LEDtube VLE UN 1500mm UO 24W840 T8	50 °C
929002333502	MAS LEDtube VLE UN 1500mm UO 24W865 T8	50 °C
929002997002	MAS LEDtube VLE UN 1200mm UO 15.5W830 T8	55 °C
929002997102	MAS LEDtube VLE UN 1200mm UO 15.5W840 T8	55 °C
929002997202	MAS LEDtube VLE UN 1200mm UO 15.5W865 T8	55 °C
929002997302	MAS LEDtube VLE UN 1500mm UO 23W830 T8	60 °C
929002997402	MAS LEDtube VLE UN 1500mm UO 23W840 T8	60 °C
929002997502	MAS LEDtube VLE UN 1500mm UO 23W865 T8	60 °C



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