



# The new generation of energy saving tube lighting

## MASTER LEDtube EM/Mains

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. For those that are looking for value for money within limited budget and re-lamping efforts for better light effect and lifetime.

### Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%-safe installation process

### Features

- Only 50% energy consumption compared to fluorescent tubes
- Extra-long life of 40,000 hours
- Retrofit to existing T8 lamps on EM ballast installations
- Full safety features and EM Protector safety device
- No mercury

### Application

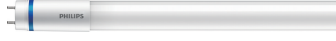
- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas
- Food & Museums

# MASTER LEDtube EM/Mains

## Warnings and Safety

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## Versions



G13

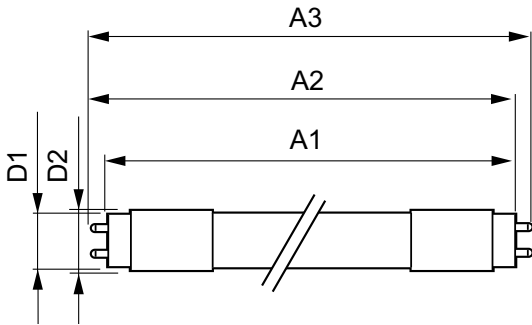
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# MASTER LEDtube EM/Mains

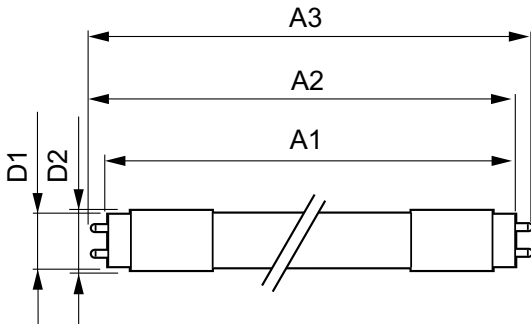
## Dimensional drawing



Product	D1	D2	A1	A2	A3
Master LEDTube 1200 mm 18W 865 T8 I W	25.6 mm	27.8 mm	1198.1 mm	1205.2 mm	1212.3 mm
Master LEDTube 1200 mm 18W 840 T8 I W	25.6 mm	27.8 mm	1198.1 mm	1205.2 mm	1212.3 mm
MASTER LEDtube 1500mm UO 24W 830 T8	25.78 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube 1500mm UO 24W 865 T8	25.78 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube 1500mm UO 24W 840 T8	25.78 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube 1200mm UO 16W 840 T8	25.78 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm
MASTER LEDtube STD 1200mm 10.5W865 T8 I	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube STD 1200mm 10.5W840 T8 I	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UO 23W 865 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube 1200mm UO 15.5W 830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UO 23W 830 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube 1200mm UO 15.5W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1200mm UO 15.5W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UO 23W 840 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm

# MASTER LEDtube EM/Mains

## Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube 1200mm HO 14W830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1200mm HO 14W865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1200mm HO 14W840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm

### Controls and Dimming

Dimmable	No
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### Operating and Electrical

Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s

### Light Technical

Beam Angle (Nom)	160 °
Llmf At End Of Nominal Lifetime (Nom)	70 %

### Mechanical and Housing

Bulb Shape	Tube, double-ended
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### Temperature

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	Energy Efficiency Label (EEL)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	18 kWh	A+
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	18 kWh	A+
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	11 kWh	A++
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	11 kWh	A++
929001297902	MASTER LEDtube 1200mm UO 16W 840 T8	16 kWh	A++
929001298102	MASTER LEDtube 1500mm UO 24W 830 T8	24 kWh	A++
929001298202	MASTER LEDtube 1500mm UO 24W 840 T8	24 kWh	A++
929001298302	MASTER LEDtube 1500mm UO 24W 865 T8	24 kWh	A++
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	16 kWh	A++
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	16 kWh	A++
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	16 kWh	A++
929002020802	MASTER LEDtube 1500mm UO 23W 830 T8	23 kWh	A++
929002020902	MASTER LEDtube 1500mm UO 23W 840 T8	23 kWh	A++
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	23 kWh	A++
929001298402	MASTER LEDtube 900mm HO 12W 840 T8	12 kWh	A++
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	14 kWh	A++
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	14 kWh	A++
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	14 kWh	A++

## Operating and Electrical

## MASTER LEDtube EM/Mains

Order Code	Full Product Name	Voltage (Nom)	Power (Rated)	
			(Nom)	(Nom)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	100-240 V	18 W	
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	100-240 V	18 W	
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	220-240 V	10.5 W	
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	220-240 V	10.5 W	
929001297902	MASTER LEDtube 1200mm UO 16W 840 T8	220-240 V	16 W	
929001298102	MASTER LEDtube 1500mm UO 24W 830 T8	220-240 V	24 W	
929001298202	MASTER LEDtube 1500mm UO 24W 840 T8	220-240 V	24 W	
929001298302	MASTER LEDtube 1500mm UO 24W 865 T8	220-240 V	24 W	
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	220-240 V	15.5 W	

Order Code	Full Product Name	Voltage (Nom)	Power (Rated)	
			(Nom)	(Nom)
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	220-240 V	15.5 W	
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	220-240 V	15.5 W	
929002020802	MASTER LEDtube 1500mm UO 23W 830 T8	220-240 V	23 W	
929002020902	MASTER LEDtube 1500mm UO 23W 840 T8	220-240 V	23 W	
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	220-240 V	23 W	
929001298402	MASTER LEDtube 900mm HO 12W 840 T8	220-240 V	12 W	
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	220-240 V	14 W	
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	220-240 V	14 W	
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	220-240 V	14 W	

### General Information

Order Code	Full Product Name	Cap-Base	Nominal	
			Lifetime (Nom)	Switching Cycle
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	G13	40000 h	50000X
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	G13	40000 h	50000X
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	G13	50000 h	200000X
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	G13	50000 h	200000X
929001297902	MASTER LEDtube 1200mm UO 16W 840 T8	G13	50000 h	200000X
929001298102	MASTER LEDtube 1500mm UO 24W 830 T8	G13	50000 h	200000X
929001298202	MASTER LEDtube 1500mm UO 24W 840 T8	G13	50000 h	200000X
929001298302	MASTER LEDtube 1500mm UO 24W 865 T8	G13	50000 h	200000X
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8 (Rotating)	G13 ROT	60000 h	200000X

Order Code	Full Product Name	Cap-Base	Nominal	
			Lifetime (Nom)	Switching Cycle
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8 (Rotating)	G13 ROT	60000 h	200000X
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8 (Rotating)	G13 ROT	60000 h	200000X
929002020802	MASTER LEDtube 1500mm UO 23W 830 T8 (Rotating)	G13 ROT	60000 h	200000X
929002020902	MASTER LEDtube 1500mm UO 23W 840 T8 (Rotating)	G13 ROT	60000 h	200000X
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8 (Rotating)	G13 ROT	60000 h	200000X
929001298402	MASTER LEDtube 900mm HO 12W 840 T8 (Rotating)	G13 ROT	50000 h	200000X
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	G13	50000 h	200000X
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	G13	50000 h	200000X
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	G13	50000 h	200000X

### Light Technical

## MASTER LEDtube EM/Mains

Order Code	Full Product Name	Color Code	Correlated	Color	Luminous Flux (Nom)
			Temperature (Nom)	Rendering (Nom)	
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	841	4000 K	82	2100 lm
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	865	6500 K	82	2100 lm
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	841	4000 K	83	1600 lm
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	865	6500 K	83	1600 lm
929001297902	MASTER LEDtube 1200mm UO 16W 840 T8	841	4000 K	83	2500 lm
929001298102	MASTER LEDtube 1500mm UO 24W 830 T8	830	3000 K	83	3400 lm
929001298202	MASTER LEDtube 1500mm UO 24W 840 T8	841	4000 K	83	3700 lm
929001298302	MASTER LEDtube 1500mm UO 24W 865 T8	865	6500 K	83	3700 lm
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	830	3000 K	83	2300 lm

Order Code	Full Product Name	Color Code	Correlated	Color	Luminous Flux (Nom)
			Temperature (Nom)	Rendering (Nom)	
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	841	4000 K	83	2500 lm
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	865	6500 K	83	2500 lm
929002020802	MASTER LEDtube 1500mm UO 23W 830 T8	830	3000 K	83	3400 lm
929002020902	MASTER LEDtube 1500mm UO 23W 840 T8	841	4000 K	83	3700 lm
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	865	6500 K	83	3700 lm
929001298402	MASTER LEDtube 900mm HO 12W 840 T8	841	4000 K	83	1575 lm
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	830	3000 K	83	2000 lm
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	841	4000 K	83	2100 lm
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	865	6500 K	83	2100 lm

### Temperature

Order Code	Full Product Name	T-Ambient (Max)	T-Case Maximum (Nom)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	45 °C	70 °C
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	45 °C	70 °C
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	45 °C	50 °C
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	45 °C	50 °C
929001297902	MASTER LEDtube 1200mm UO 16W 840 T8	35 °C	55 °C
929001298102	MASTER LEDtube 1500mm UO 24W 830 T8	35 °C	60 °C
929001298202	MASTER LEDtube 1500mm UO 24W 840 T8	35 °C	60 °C
929001298302	MASTER LEDtube 1500mm UO 24W 865 T8	35 °C	60 °C

Order Code	Full Product Name	T-Ambient (Max)	T-Case Maximum (Nom)
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	45 °C	55 °C
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	45 °C	55 °C
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	45 °C	55 °C
929002020802	MASTER LEDtube 1500mm UO 23W 830 T8	45 °C	60 °C
929002020902	MASTER LEDtube 1500mm UO 23W 840 T8	45 °C	60 °C
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	45 °C	60 °C
929001298402	MASTER LEDtube 900mm HO 12W 840 T8	45 °C	50 °C
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	45 °C	55 °C

# MASTER LEDtube EM/Mains

Order Code	Full Product Name	T-Ambient (Max)	T-Case Maximum (Nom)
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	45 °C	55 °C
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	45 °C	55 °C

