



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. This product is the ideal solution for up lighting in general lighting applications.

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 or HF electronic gear
- Full safety features and EM Protector safety device
- No mercury

Application

- Car parks
- Warehouses
- Transport and distribution areas
- Front & back of house retail & hospitality

Warnings and Safety

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Versions



LEDtubes, 600mm 8.5W, 900mm 10.5W, 1200mm 12W, 1200mm 15W

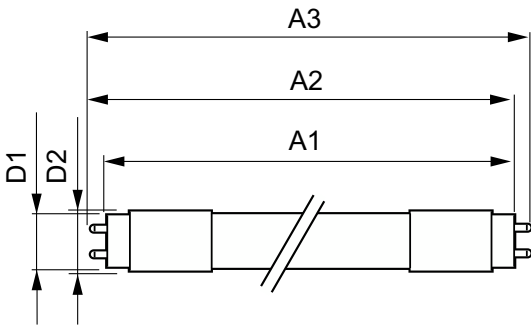
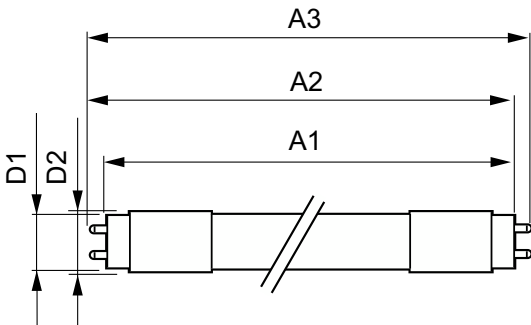


LEDtube 1200mm HO T8



LEDtube Starter

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1500mm UO 21.7W 840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 600mm HO 8W830 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 8W840 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 8W865 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm
MAS LEDtube 900mm HO 12W 865 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

Product	D1	D2	A1	A2	A3
MAS LEDtube 1050mm 16W 840 T8	25.8 mm	28 mm	1,045.8 mm	1,052.9 mm	1,060 mm
MAS LEDtube 1200mm HO 12.5W 830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 12.5W 840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 12.5W 865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm HO 16.7W 840 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm HO 18.2W 830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm HO 18.2W 840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm HO 18.2W 865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

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Light Technical

LLMF at end of nominal lifetime (nom.) 70 %

Controls and Dimming

Dimmable No

General Information

Order Code	Full Product Name	Cap base	Switching Cycle	Nominal lifetime
68708600	MASTER LEDtube 900mm HO 12W 840 T8	G13 ROT	200,000	75,000 h
68710900	MASTER LEDtube 900mm HO 12W 865 T8	G13 ROT	200,000	75,000 h
69747400	MASTER LEDtube 600mm HO 8W830 T8	G13 ROT	200,000	75,000 h
69749800	MASTER LEDtube 600mm HO 8W840 T8	G13 ROT	200,000	75,000 h
69751100	MASTER LEDtube 600mm HO 8W865 T8	G13 ROT	200,000	75,000 h
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	G13 ROT	200,000	75,000 h
48537200	MASTER LEDtube Starter EMP GenIII	-	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	G13 ROT	200,000	75,000 h

Order Code	Full Product Name	Cap base	Switching Cycle	Nominal lifetime
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	G13 ROT	200,000	75,000 h
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	G13 ROT	200,000	75,000 h
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	G13 ROT	200,000	75,000 h
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	G13 ROT	200,000	75,000 h
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	G13 ROT	200,000	75,000 h
61602100	MASTER LEDtube 1050mm 16W 840 T8	G13 ROT	200,000	75,000 h
38813000	MASTER LEDtube 1500mm HO 16.7W 840 T8 EELB	G13 ROT	200,000	75,000 h

Light Technical

Order Code	Full Product Name	Beam angle (nom.)	Correlated Colour Temperature (Nom)	Colour rendering index (CRI)	Colour Code	Luminous Flux
68708600	MASTER LEDtube 900mm HO 12W 840 T8	160 degree(s)	4000 K	80	840	1,575 lm
68710900	MASTER LEDtube 900mm HO 12W 865 T8	160 degree(s)	6500 K	80	865	1,575 lm
69747400	MASTER LEDtube 600mm HO 8W830 T8	160 degree(s)	3000 K	83	830	1,000 lm
69749800	MASTER LEDtube 600mm HO 8W840 T8	160 degree(s)	4000 K	83	840	1,050 lm
69751100	MASTER LEDtube 600mm HO 8W865 T8	160 degree(s)	6500 K	83	865	1,050 lm
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	160 degree(s)	4000 K	80	840	3,700 lm
48537200	MASTER LEDtube Starter EMP GenIII	-	-	-	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	160 degree(s)	3000 K	80	830	2,000 lm
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	160 degree(s)	4000 K	80	840	2,100 lm
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	160 degree(s)	6500 K	80	865	2,100 lm
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	160 degree(s)	3000 K	80	830	2,900 lm
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	160 degree(s)	4000 K	80	840	3,100 lm
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	160 degree(s)	6500 K	80	865	3,100 lm
61602100	MASTER LEDtube 1050mm 16W 840 T8	160 degree(s)	4000 K	80	840	2,500 lm
38813000	MASTER LEDtube 1500mm HO 16.7W 840 T8 EELB	160 degree(s)	4000 K	80	840	3,100 lm

Operating and Electrical

MASTER LEDtube EM/Mains

Order Code	Full Product Name	Input frequency	Line Frequency	Power Consumption	Starting time (nom.)
68708600	MASTER LEDtube 900mm HO 12W 840 T8	50 to 60 Hz	50 to 60 Hz	12 W	0.5 s
68710900	MASTER LEDtube 900mm HO 12W 865 T8	50 to 60 Hz	50 to 60 Hz	12 W	0.5 s
69747400	MASTER LEDtube 600mm HO 8W830 T8	50 to 60 Hz	50 to 60 Hz	8 W	0.5 s
69749800	MASTER LEDtube 600mm HO 8W840 T8	50 to 60 Hz	50 to 60 Hz	8 W	0.5 s
69751100	MASTER LEDtube 600mm HO 8W865 T8	50 to 60 Hz	50 to 60 Hz	8 W	0.5 s
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	50 to 60 Hz	50 to 60 Hz	21.7 W	0.5 s
48537200	MASTER LEDtube Starter EMP GenIII	- Hz	- Hz	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	50 to 60 Hz	50 to 60 Hz	12.5 W	0.5 s

Order Code	Full Product Name	Input frequency	Line Frequency	Power Consumption	Starting time (nom.)
59237000	MASTER LEDtube 1200mm HO 12.5W 830 T8	50 to 60 Hz	50 to 60 Hz	12.5 W	0.5 s
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	50 to 60 Hz	50 to 60 Hz	12.5 W	0.5 s
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	50 to 60 Hz	50 to 60 Hz	18.2 W	0.5 s
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	50 to 60 Hz	50 to 60 Hz	18.2 W	0.5 s
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	50 to 60 Hz	50 to 60 Hz	18.2 W	0.5 s
61602100	MASTER LEDtube 1050mm 16W 840 T8	50 to 60 Hz	50 to 60 Hz	16 W	0.5 s
38813000	MASTER LEDtube 1500mm HO 16.7W 840 T8 EELB	50 to 60 Hz	-	16.7 W	0.5 s

Temperature

Order Code	Full Product Name	T-Case maximum (nom.)
68708600	MASTER LEDtube 900mm HO 12W 840 T8	50 °C
68710900	MASTER LEDtube 900mm HO 12W 865 T8	50 °C
69747400	MASTER LEDtube 600mm HO 8W830 T8	50 °C
69749800	MASTER LEDtube 600mm HO 8W840 T8	50 °C
69751100	MASTER LEDtube 600mm HO 8W865 T8	50 °C
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	60 °C
48537200	MASTER LEDtube Starter EMP GenIII	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	50 °C

Order Code	Full Product Name	T-Case maximum (nom.)
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	50 °C
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	50 °C
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	55 °C
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	55 °C
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	55 °C
61602100	MASTER LEDtube 1050mm 16W 840 T8	55 °C
38813000	MASTER LEDtube 1500mm HO 16.7W 840 T8 EELB	50 °C

Mechanical and Housing

Order Code	Full Product Name	Lamp Finish	Bulb shape
68708600	MASTER LEDtube 900mm HO 12W 840 T8	Frosted	T8

Order Code	Full Product Name	Lamp Finish	Bulb shape
68710900	MASTER LEDtube 900mm HO 12W 865 T8	Frosted	T8

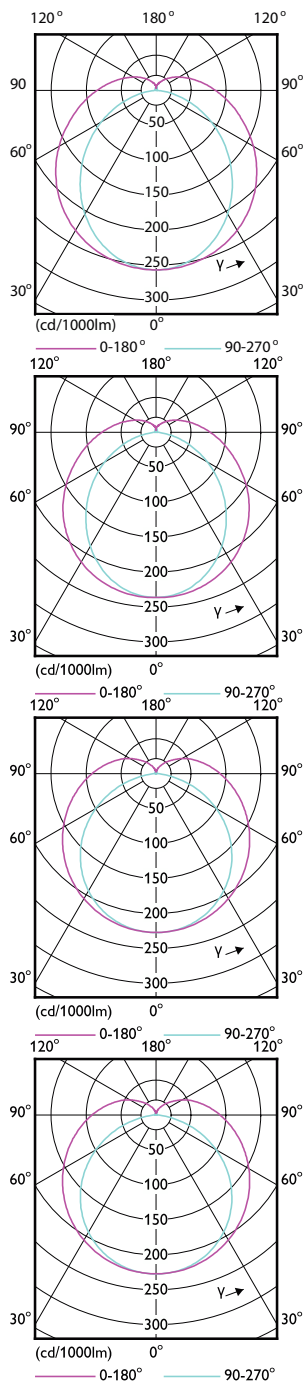
MASTER LEDtube EM/Mains

Order Code	Full Product Name	Lamp Finish	Bulb shape
69747400	MASTER LEDtube 600mm HO 8W830 T8	Frosted	T8
69749800	MASTER LEDtube 600mm HO 8W840 T8	Frosted	T8
69751100	MASTER LEDtube 600mm HO 8W865 T8	Frosted	T8
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	Frosted	T8
48537200	MASTER LEDtube Starter EMP GenIII	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	Frosted	T8
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	Frosted	T8

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy consumption kWh/1,000 hours
68708600	MASTER LEDtube 900mm HO 12W 840 T8	-20°C to 45°C	12 kWh
68710900	MASTER LEDtube 900mm HO 12W 865 T8	-20°C to 45°C	12 kWh
69747400	MASTER LEDtube 600mm HO 8W830 T8	-20°C to 45°C	8 kWh
69749800	MASTER LEDtube 600mm HO 8W840 T8	-20°C to 45°C	8 kWh
69751100	MASTER LEDtube 600mm HO 8W865 T8	-20°C to 45°C	8 kWh
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	-20°C to 45°C	22 kWh
48537200	MASTER LEDtube Starter EMP GenIII	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	-20°C to 45°C	13 kWh
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	-20°C to 45°C	13 kWh
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	-20°C to 45°C	13 kWh
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	-20°C to 45°C	19 kWh
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	-20°C to 45°C	19 kWh
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	-20°C to 45°C	19 kWh
61602100	MASTER LEDtube 1050mm 16W 840 T8	-20°C to 45°C	16 kWh
38813000	MASTER LEDtube 1500mm HO 16.7W 840 T8 EELB	-20 to +45 °C	17 kWh

Order Code	Full Product Name	Lamp Finish	Bulb shape
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	Frosted	T8
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	Frosted	T8
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	Frosted	T8
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	Frosted	T8
61602100	MASTER LEDtube 1050mm 16W 840 T8	Frosted	T8
38813000	MASTER LEDtube 1500mm HO 16.7W 840 T8	Frosted	T8
EELB			



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