



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

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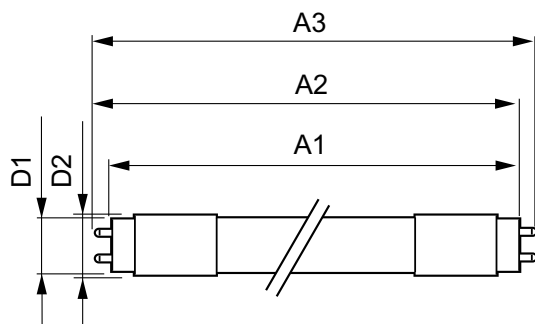
Warnings and Safety

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Versions



Dimensional drawing

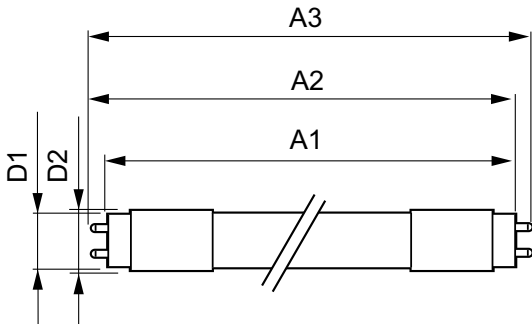


Product	D1	D2	C1
MASTER LEDtube Starter EMP	3 mm	21.5 mm	34.5 mm
MASTER LEDtube Starter EMP GenII OP	3 mm	21.5 mm	34.5 mm

Product	D1	D2	A1	A2	A3
MASTER LEDtube 600mm HO 8W865 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MASTER LEDtube 900mm HO 12W 865 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

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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
MASTER LEDtube 1200mm HO 12.5W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm HO 18.2W 865 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube 1500mm HO 18.2W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube 1200mm HO VWV 18W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 600mm HO VWV 10W 865 T8	25.8 mm	28 mm	588.6 mm	595.6 mm	602.6 mm
MASTER LEDtube 1200mm HO VWV 18W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
72928000	MASTER LEDtube Starter EMP	50 to 60 Hz	-	-	-
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-	-
68710900	MASTER LEDtube 900mm HO 12W 865 T8	50 to 60 Hz	220-240 V	12 W	0.5 s
69751100	MASTER LEDtube 600mm HO 8W865 T8	50 to 60 Hz	220-240 V	8 W	0.5 s
68724600	MASTER LEDtube 1200mm HO 14W830 T8	50 to 60 Hz	220-240 V	14 W	0.5 s
68726000	MASTER LEDtube 1200mm HO 14W840 T8	50 to 60 Hz	220-240 V	14 W	0.5 s
68728400	MASTER LEDtube 1200mm HO 14W865 T8	50 to 60 Hz	220-240 V	14 W	0.5 s

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	50 to 60 Hz	100-277 V	18 W	0.5 s
81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	50 to 60 Hz	100-277 V	18 W	0.5 s
81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	50 to 60 Hz	100-277 V	10 W	0.5 s
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s

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General Information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
72928000	MASTER LEDtube Starter EMP	-	-	-
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-
68710900	MASTER LEDtube 900mm HO 12W 865 T8	G13 ROT (Rotating)	70000 h	200,000X
69751100	MASTER LEDtube 600mm HO 8W865 T8	G13 ROT (Rotating)	70000 h	200,000X
68724600	MASTER LEDtube 1200mm HO 14W830 T8	G13	50000 h	200,000X
68726000	MASTER LEDtube 1200mm HO 14W840 T8	G13	50000 h	200,000X
68728400	MASTER LEDtube 1200mm HO 14W865 T8	G13	50000 h	200,000X

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	G13	60000 h	200,000X
81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	G13	60000 h	200,000X
81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	G13	60000 h	200,000X
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	G13 ROT (Rotating)	70000 h	200,000X
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	G13 ROT (Rotating)	70000 h	200,000X
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	G13 ROT (Rotating)	70000 h	200,000X

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
72928000	MASTER LEDtube Starter EMP	-
81965400	MASTER LEDtube Starter EMP GenII OP	-
68710900	MASTER LEDtube 900mm HO 12W 865 T8	12 kWh
69751100	MASTER LEDtube 600mm HO 8W865 T8	8 kWh
68724600	MASTER LEDtube 1200mm HO 14W830 T8	14 kWh
68726000	MASTER LEDtube 1200mm HO 14W840 T8	14 kWh
68728400	MASTER LEDtube 1200mm HO 14W865 T8	14 kWh
81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	18 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	18 kWh
81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	10 kWh
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	13 kWh
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	19 kWh
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	19 kWh

Controls and Dimming

Order Code	Full Product Name	Dimmable
72928000	MASTER LEDtube Starter EMP	-
81965400	MASTER LEDtube Starter EMP GenII OP	-
68710900	MASTER LEDtube 900mm HO 12W 865 T8	No
69751100	MASTER LEDtube 600mm HO 8W865 T8	No
68724600	MASTER LEDtube 1200mm HO 14W830 T8	No
68726000	MASTER LEDtube 1200mm HO 14W840 T8	No
68728400	MASTER LEDtube 1200mm HO 14W865 T8	No

Order Code	Full Product Name	Dimmable
81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	No
81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	No
81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	No
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	No
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	No
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	No

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	Lmf At End Of Nominal Lifetime (Nom)	Luminous Flux (Nom)
72928000	MASTER LEDtube Starter EMP	-	-	-	-	-	-
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-	-
68710900	MASTER LEDtube 900mm HO 12W 865 T8	160 °	865	6500 K	80	70 %	1575 lm

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Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Colour	Llmf At End Of	
					Rendering Index (Nom)	Nominal Lifetime (Nom)	Luminous Flux (Nom)
69751100	MASTER LEDtube 600mm HO 8W865 T8	160 °	865	6500 K	83	70 %	1050 lm
68724600	MASTER LEDtube 1200mm HO 14W830 T8	160 °	830	3000 K	83	70 %	2000 lm
68726000	MASTER LEDtube 1200mm HO 14W840 T8	160 °	841	4000 K	83	70 %	2100 lm
68728400	MASTER LEDtube 1200mm HO 14W865 T8	160 °	865	6500 K	83	70 %	2100 lm
81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	160 °	841	4000 K	80	70 %	2100 lm
81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	160 °	865	6500 K	80	70 %	2100 lm
81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	160 °	865	6500 K	80	70 %	1050 lm
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	160 °	841	4000 K	80	70 %	2100 lm
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	160 °	841	4000 K	80	70 %	3100 lm
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	160 °	865	6500 K	80	70 %	3100 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape	Order Code	Full Product Name	Bulb Finish	Bulb Shape
72928000	MASTER LEDtube Starter EMP	-	-	81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	-	Tube, single-ended
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	-	Tube, single-ended
68710900	MASTER LEDtube 900mm HO 12W 865 T8	Frosted	Tube, double-ended	81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	Frosted	Tube, single-ended
69751100	MASTER LEDtube 600mm HO 8W865 T8	Frosted	Tube, double-ended	59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	Frosted	Tube, double-ended
68724600	MASTER LEDtube 1200mm HO 14W830 T8	-	Tube, double-ended	59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	Frosted	Tube, double-ended
68726000	MASTER LEDtube 1200mm HO 14W840 T8	-	Tube, double-ended	59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	Frosted	Tube, double-ended
68728400	MASTER LEDtube 1200mm HO 14W865 T8	-	Tube, double-ended				

Temperature

Order Code	Full Product Name	T-Ambient (Max)	T-Ambient (Min)	T-Case Maximum (Nom)	T-Storage (Max)	T-Storage (Min)
72928000	MASTER LEDtube Starter EMP	-	-	-	-	-
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-
68710900	MASTER LEDtube 900mm HO 12W 865 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
69751100	MASTER LEDtube 600mm HO 8W865 T8	35 °C	-20 °C	50 °C	65 °C	-40 °C
68724600	MASTER LEDtube 1200mm HO 14W830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
68726000	MASTER LEDtube 1200mm HO 14W840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
68728400	MASTER LEDtube 1200mm HO 14W865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
81119100	MASTER LEDtube 1200mm HO VWV 18W 840 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
81121400	MASTER LEDtube 1200mm HO VWV 18W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
81127600	MASTER LEDtube 600mm HO VWV 10W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C

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