



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

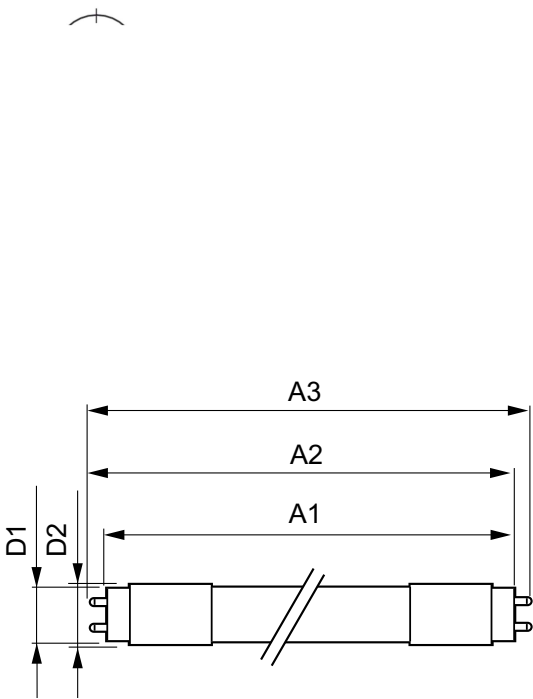
- -

MASTER LEDtube EM/Mains

Versions



Dimensional drawing

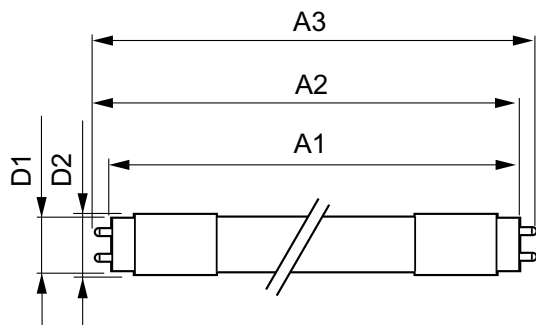


Product	D1	D2	C1
MASTER LEDtube Starter EMP	3 mm	21.5 mm	34.5 mm
MASTER LEDtube Starter EMP GenII OP	3 mm	21.5 mm	34.5 mm

Product	D1	D2	A1	A2	A3
MASTER LEDtube 1200mm HO 14W830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1200mm HO 12.5W 865 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 1200mm HO 12.5W 830 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 1500mm HO 18.2W 830 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm

MASTER LEDtube EM/Mains

Dimensional drawing



Product	D1	D2	A1	A2	A3
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

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929000299902	MASTER LEDtube Starter EMP	50 to 60 Hz	-	-	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	50 to 60 Hz	220-240 V	10.5 W	0.5 s
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	50 to 60 Hz	220-240 V	10.5 W	0.5 s
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	50 to 60 Hz	220-240 V	14 W	0.5 s
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s

General Information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
929000299902	MASTER LEDtube Starter EMP	-	-	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	G13	50000 h	200,000X

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	G13	50000 h	200,000X
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	G13	50000 h	200,000X

MASTER LEDtube EM/Mains

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	G13 ROT (Rotating)	70000 h	200,000X
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	G13 ROT (Rotating)	70000 h	200,000X
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	G13 ROT (Rotating)	70000 h	200,000X

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	G13 ROT (Rotating)	70000 h	200,000X
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	G13 ROT (Rotating)	70000 h	200,000X
929001923102	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
929000299902	MASTER LEDtube Starter EMP	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	11 kWh
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	11 kWh
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	14 kWh
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	13 kWh
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	13 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	13 kWh
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	19 kWh
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	19 kWh
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	19 kWh

Controls and Dimming

Order Code	Full Product Name	Dimmable
929000299902	MASTER LEDtube Starter EMP	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	No
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	No
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	No
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	No

Order Code	Full Product Name	Dimmable
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	No
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	No
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	No
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	No
929001923102	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)	Llmf At End Of Nominal Lifetime (Nom)	Luminous Flux (Nom)
929000299902	MASTER LEDtube Starter EMP	-	-	-	-	-	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	160 °	840	4000 K	83	70 %	1600 lm
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	160 °	865	6500 K	83	70 %	1600 lm
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	160 °	830	3000 K	83	70 %	2000 lm

MASTER LEDtube EM/Mains

Order Code	Full Product Name	Beam Angle	Colour Code	Correlated Colour	Colour	Limf At End Of	Luminous Flux
		(Nom)		Temperature (Nom)	Rendering Index (Nom)	Nominal Lifetime (Nom)	
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	160 °	830	3000 K	80	70 %	2000 lm
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	160 °	840	4000 K	80	70 %	2100 lm
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	160 °	865	6500 K	80	70 %	2100 lm
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	160 °	830	3000 K	80	70 %	2900 lm
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	160 °	840	4000 K	80	70 %	3100 lm
929001923102	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
929000299902	MASTER LEDtube Starter EMP	-	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	-	Tube, double-ended
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	-	Tube, double-ended
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	-	Tube, double-ended
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	Frosted	Tube, double-ended

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	Frosted	Tube, double-ended
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	Frosted	Tube, double-ended
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	Frosted	Tube, double-ended
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	Frosted	Tube, double-ended
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	Frosted	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)
929000299902	MASTER LEDtube Starter EMP	-	-	-	-	-
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001922602	MASTER LEDtube 1200mm HO 12.5W 830 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001922702	MASTER LEDtube 1200mm HO 12.5W 840 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001922802	MASTER LEDtube 1200mm HO 12.5W 865 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C

MASTER LEDtube EM/Mains

