



The new generation of energy saving tube lighting

MASTER LEDtube EM/Mains T8

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
- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
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- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%-safe installation process
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MASTER LEDtube EM/Mains T8

Features

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

Application

- Parking lots / covered car parks
- Car parks
- Warehouses / coldrooms / signage
- Warehouses
- Transport and distribution areas
- Transport and distribution areas
- Food & Museums
- Front & back of house retail & hospitality

Warnings and Safety

- -
- -

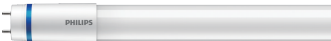
Versions



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



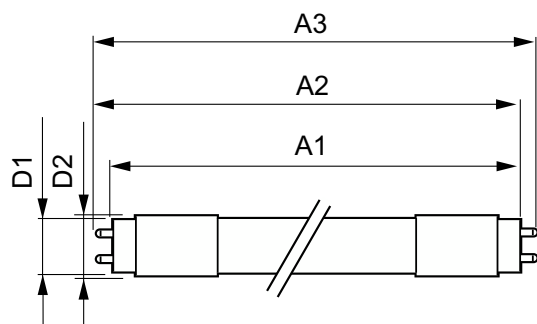
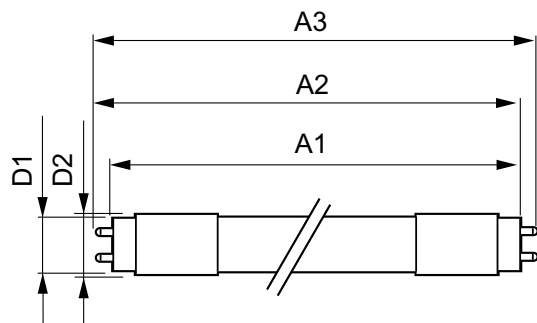
LEDtube 1200mm HO T8



LEDtube T8 G13 2

MASTER LEDtube EM/Mains T8

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 14.7W 830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 14.7W 840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 14.7W 865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm UO 21.7W 830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
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 1500mm UO 21.7W 865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 600mm HO VWV 10W 840 T8 GM	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO VWV 10W 865 T8 GM	25.8 mm	28 mm	588.6 mm	595.6 mm	602.6 mm
MAS LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

Product	D1	D2	A1	A2	A3
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 1200mm HO 14W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 14W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 14W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 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
MAS LEDtube 600mm HO 8W830 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 8W840 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 8W865 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

MASTER LEDtube EM/Mains T8

Dimensional drawing

Product	D1	D2	A1	A2	A3
MAS LEDtube STD 1200mm 10.5W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube STD 1200mm 10.5W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

General Information	
Switching Cycle	200,000
Light Technical	
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Temperature	
Ambient temperature range	-20 °C to 45 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T8

General Information

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929001298402	MAS LEDtube 900mm HO 12W 840 T8	G13 ROT	75,000 hour(s)
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	G13 ROT	75,000 hour(s)
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	G13 ROT	75,000 hour(s)
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	G13 ROT	75,000 hour(s)
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	G13 ROT	75,000 hour(s)
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	G13 ROT	75,000 hour(s)
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	G13 ROT	75,000 hour(s)
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	G13	60,000 hour(s)
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	G13	60,000 hour(s)
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	G13	60,000 hour(s)
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	G13	60,000 hour(s)
929003558808	MAS LEDtube STD 1200mm 10.5W840 T8	G13	60,000 hour(s)
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	G13	60,000 hour(s)
929003556008	MAS LEDtube 1200mm HO 14W830 T8	G13	60,000 hour(s)
929003556108	MAS LEDtube 1200mm HO 14W840 T8	G13	60,000 hour(s)
929003556208	MAS LEDtube 1200mm HO 14W865 T8	G13	60,000 hour(s)
929003557208	MAS LEDtube 600mm HO 8W830 T8	G13	60,000 hour(s)
929003557308	MAS LEDtube 600mm HO 8W840 T8	G13	60,000 hour(s)
929003557408	MAS LEDtube 600mm HO 8W865 T8	G13	60,000 hour(s)
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	G13 ROT	75,000 hour(s)
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	G13 ROT	75,000 hour(s)
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	G13 ROT	75,000 hour(s)
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	G13 ROT	75,000 hour(s)
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	G13 ROT	75,000 hour(s)
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	G13 ROT	75,000 hour(s)

Light Technical (1/2)

Order Code	Full Product Name	Beam Angle	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code
		(Nom)	(Nom)		
929001298402	MAS LEDtube 900mm HO 12W 840 T8	160 degree(s)	4000 K	80	840
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	160 degree(s)	3000 K	80	830
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	160 degree(s)	4000 K	80	840

Order Code	Full Product Name	Beam Angle	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code
		(Nom)	(Nom)		
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	160 degree(s)	6500 K	80	865
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	160 degree(s)	3000 K	80	830
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	160 degree(s)	4000 K	80	840

MASTER LEDtube EM/Mains T8

Order Code	Full Product Name	Beam	Correlated	Color rendering index (CRI)	Color Code
		Angle (Nom)	Color Temperature (Nom)		
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	160 degree(s)	6500 K	80	865
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	190 degree(s)	4000 K	80	840
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	190 degree(s)	6500 K	80	865
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	190 degree(s)	4000 K	80	840
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	190 degree(s)	6500 K	80	865
929003558308	MAS LEDtube STD 1200mm 10.5W840 T8	190 degree(s)	4000 K	80	840
929003558408	MAS LEDtube STD 1200mm 10.5W865 T8	190 degree(s)	6500 K	80	865
929003558508	MAS LEDtube 1200mm HO 14W830 T8	190 degree(s)	3000 K	80	830
9290035586108	MAS LEDtube 1200mm HO 14W840 T8	190 degree(s)	4000 K	80	840
9290035587208	MAS LEDtube 1200mm HO 14W865 T8	190 degree(s)	6500 K	80	865

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux
929001298402	MAS LEDtube 900mm HO 12W 840 T8	1,575 lm
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	2,300 lm
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	2,500 lm
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	2,500 lm
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	3,400 lm
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	3,700 lm
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	3,700 lm
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	2,100 lm
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	2,100 lm
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	1,050 lm
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	1,050 lm
929003558308	MAS LEDtube STD 1200mm 10.5W840 T8	1,600 lm
929003558408	MAS LEDtube STD 1200mm 10.5W865 T8	1,600 lm

Order Code	Full Product Name	Beam	Correlated	Color rendering index (CRI)	Color Code
		Angle (Nom)	Color Temperature (Nom)		
929003557208	MAS LEDtube 600mm HO 8W830 T8	190 degree(s)	3000 K	83	830
929003557308	MAS LEDtube 600mm HO 8W840 T8	190 degree(s)	4000 K	83	840
929003557408	MAS LEDtube 600mm HO 8W865 T8	190 degree(s)	6500 K	83	865
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	160 degree(s)	3000 K	80	830
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	160 degree(s)	4000 K	80	840
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	160 degree(s)	6500 K	80	865
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	160 degree(s)	3000 K	80	830
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	160 degree(s)	4000 K	80	840
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	160 degree(s)	6500 K	80	865

Order Code	Full Product Name	Luminous Flux
929003556008	MAS LEDtube 1200mm HO 14W830 T8	2,000 lm
929003556108	MAS LEDtube 1200mm HO 14W840 T8	2,100 lm
929003556208	MAS LEDtube 1200mm HO 14W865 T8	2,100 lm
929003557208	MAS LEDtube 600mm HO 8W830 T8	1,000 lm
929003557308	MAS LEDtube 600mm HO 8W840 T8	1,050 lm
929003557408	MAS LEDtube 600mm HO 8W865 T8	1,050 lm
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	2,000 lm
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	2,100 lm
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	2,100 lm
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	2,900 lm
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	3,100 lm
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	3,100 lm

Operating and Electrical

MASTER LEDtube EM/Mains T8

Order Code	Full Product Name	Power Consumption
929001298402	MAS LEDtube 900mm HO 12W 840 T8	12 W
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	14.7 W
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	14.7 W
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	14.7 W
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	21.7 W
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	21.7 W
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	21.7 W
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	18 W
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	18 W
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	10 W
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	10 W
929003558808	MAS LEDtube STD 1200mm 10.5W840 T8	10.5 W
929003558908	MAS LEDtube STD 1200mm 10.5W865 T8	10.5 W

Order Code	Full Product Name	Power Consumption
929003556008	MAS LEDtube 1200mm HO 14W830 T8	14 W
929003556108	MAS LEDtube 1200mm HO 14W840 T8	14 W
929003556208	MAS LEDtube 1200mm HO 14W865 T8	14 W
929003557208	MAS LEDtube 600mm HO 8W830 T8	8 W
929003557308	MAS LEDtube 600mm HO 8W840 T8	8 W
929003557408	MAS LEDtube 600mm HO 8W865 T8	8 W
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	12.5 W
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	12.5 W
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	12.5 W
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	18.2 W
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	18.2 W
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	18.2 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001298402	MAS LEDtube 900mm HO 12W 840 T8	50 °C
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	55 °C
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	55 °C
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	55 °C
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	60 °C
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	60 °C
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	60 °C
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	50 °C
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	50 °C
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	50 °C
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	50 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	50 °C
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 °C
929003556008	MAS LEDtube 1200mm HO 14W830 T8	50 °C
929003556108	MAS LEDtube 1200mm HO 14W840 T8	50 °C
929003556208	MAS LEDtube 1200mm HO 14W865 T8	50 °C
929003557208	MAS LEDtube 600mm HO 8W830 T8	50 °C
929003557308	MAS LEDtube 600mm HO 8W840 T8	50 °C
929003557408	MAS LEDtube 600mm HO 8W865 T8	50 °C
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	50 °C
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	50 °C
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	50 °C
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	55 °C
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	55 °C
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	55 °C

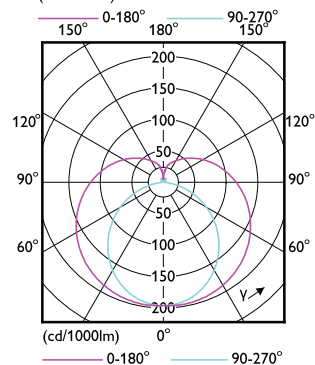
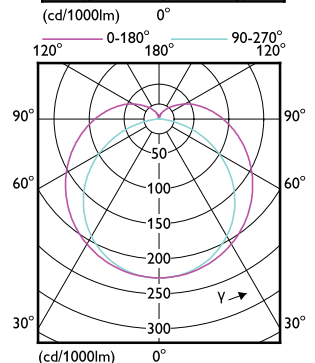
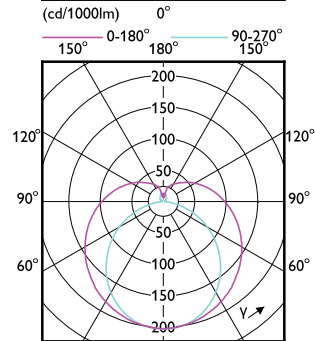
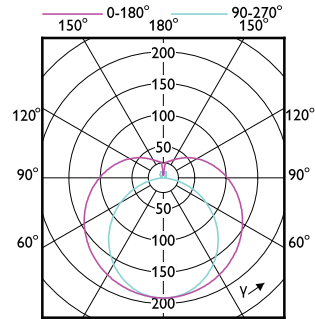
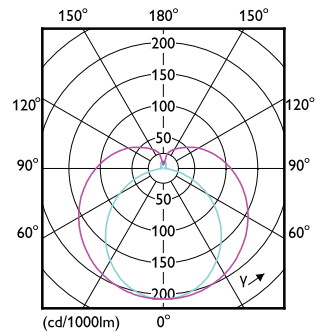
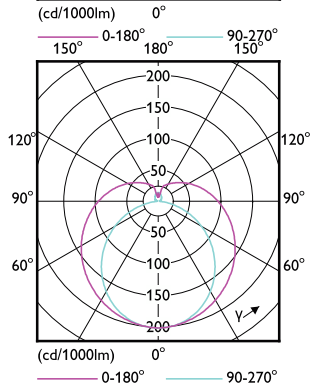
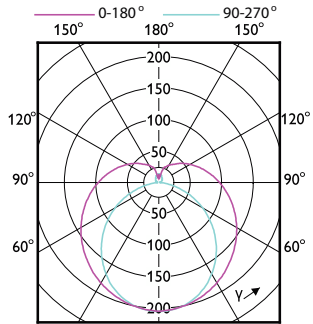
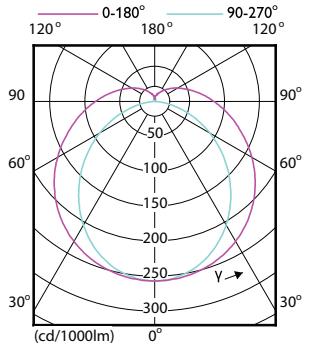
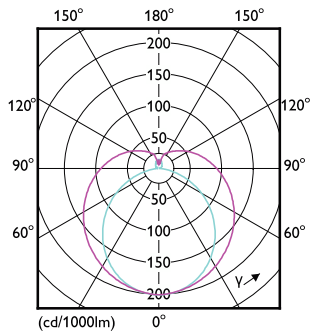
Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001298402	MAS LEDtube 900mm HO 12W 840 T8	12 kWh
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	15 kWh
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	15 kWh
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	15 kWh
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	22 kWh
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	22 kWh
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	22 kWh
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	-
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	-
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	-

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	-
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	-
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	-
929003556008	MAS LEDtube 1200mm HO 14W830 T8	-
929003556108	MAS LEDtube 1200mm HO 14W840 T8	-
929003556208	MAS LEDtube 1200mm HO 14W865 T8	-
929003557208	MAS LEDtube 600mm HO 8W830 T8	-
929003557308	MAS LEDtube 600mm HO 8W840 T8	-
929003557408	MAS LEDtube 600mm HO 8W865 T8	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	13 kWh
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	13 kWh
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	13 kWh

MASTER LEDtube EM/Mains T8

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



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