



# 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

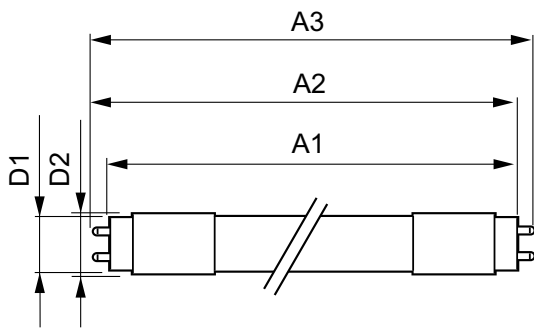
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# MASTER LEDtube EM/Mains

## Versions



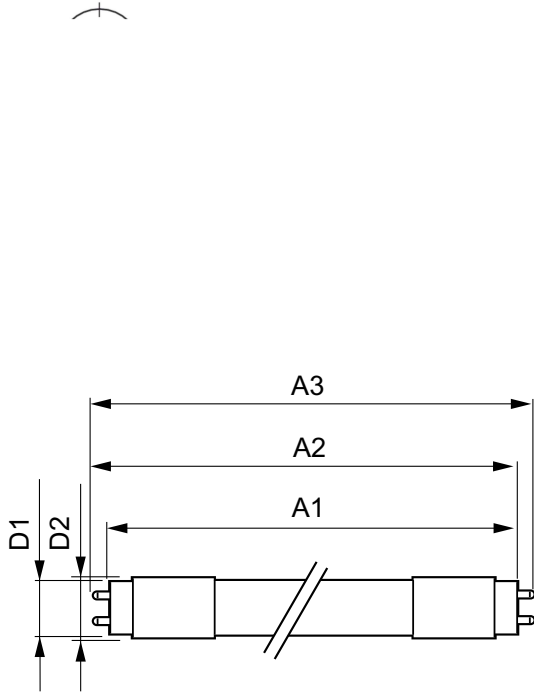
## Dimensional drawing



Product	D1	D2	A1	A2	A3
Master LEDTube 600 mm 10W 840 T8 I W	25.6 mm	27.8 mm	588.6 mm	595.7 mm	602.8 mm
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 600mm HO 8W840 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 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 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 EM/Mains

## Dimensional drawing



Product	D1	D2	C1
MASTER LEDtube Starter EMP	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 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 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 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

Input Frequency	50 to 60 Hz
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## Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929000299902	MASTER LEDtube Starter EMP	-	-	-
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	100-240 V	18 W	0.5 s
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	220-240 V	10.5 W	0.5 s

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	220-240 V	10.5 W	0.5 s
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	100-240 V	10 W	0.5 s
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	220-240 V	14 W	0.5 s

# MASTER LEDtube EM/Mains

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	220-240 V	14 W	0.5 s
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	220-240 V	14 W	0.5 s
929001307102	MASTER LEDtube 600mm HO 8W840 T8	220-240 V	8 W	0.5 s
929001877312	MASTER LEDtube 1200mm HO VVW 18W 840 T8	100-277 V	18 W	0.5 s
929001877412	MASTER LEDtube 1200mm HO VVW 18W 865 T8	100-277 V	18 W	0.5 s
929001877612	MASTER LEDtube 600mm HO VVW 10W 865 T8	100-277 V	10 W	0.5 s

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	220-240 V	18.2 W	0.5 s
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	220-240 V	18.2 W	0.5 s
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	220-240 V	18.2 W	0.5 s
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	220-240 V	15.5 W	0.5 s
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	220-240 V	15.5 W	0.5 s
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	220-240 V	15.5 W	0.5 s
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	220-240 V	23 W	0.5 s

## General Information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
929000299902	MASTER LEDtube Starter EMP	-	-	-
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	G13	40000 h	50,000X
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	G13	50000 h	200,000X
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	G13	50000 h	200,000X
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	G13	40000 h	50,000X
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	G13	50000 h	200,000X
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	G13	50000 h	200,000X
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	G13	50000 h	200,000X
929001307102	MASTER LEDtube 600mm HO 8W840 T8	G13 ROT (Rotating)	60000 h	200,000X
929001877312	MASTER LEDtube 1200mm HO VVW 18W 840 T8	G13	60000 h	200,000X
929001877412	MASTER LEDtube 1200mm HO VVW 18W 865 T8	G13	60000 h	200,000X

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
929001877612	MASTER LEDtube 600mm HO VVW 10W 865 T8	G13	60000 h	200,000X
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	G13 ROT (Rotating)	60000 h	200,000X
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	G13 ROT (Rotating)	60000 h	200,000X
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	G13 ROT (Rotating)	60000 h	200,000X
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	G13 ROT (Rotating)	60000 h	200,000X
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	G13 ROT (Rotating)	60000 h	200,000X
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	G13 ROT (Rotating)	60000 h	200,000X
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	G13 ROT (Rotating)	60000 h	200,000X

## Approval and Application

## MASTER LEDtube EM/Mains

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Energy Efficiency Label (EEL)
929000299902	MASTER LEDtube Starter EMP	-	-
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++
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	10 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++
929001307102	MASTER LEDtube 600mm HO 8W840 T8	8 kWh	A++
929001877312	MASTER LEDtube 1200mm HO VVW 18W 840 T8	18 kWh	A+

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Energy Efficiency Label (EEL)
929001877412	MASTER LEDtube 1200mm HO VVW 18W 865 T8	18 kWh	A+
929001877612	MASTER LEDtube 600mm HO VVW 10W 865 T8	10 kWh	A+
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	19 kWh	A++
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	19 kWh	A++
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	19 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++
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	23 kWh	A++

### Controls and Dimming

Order Code	Full Product Name	Dimmable
929000299902	MASTER LEDtube Starter EMP	-
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	No
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	No
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	No
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	No
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	No
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	No
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	No
929001307102	MASTER LEDtube 600mm HO 8W840 T8	No
929001877312	MASTER LEDtube 1200mm HO VVW 18W 840 T8	No

Order Code	Full Product Name	Dimmable
929001877412	MASTER LEDtube 1200mm HO VVW 18W 865 T8	No
929001877612	MASTER LEDtube 600mm HO VVW 10W 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
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	No
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	No
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	No
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	No

### Light Technical

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)
929000299902	MASTER LEDtube Starter EMP	-	-	-	-	-	-
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	160 °	865	6500 K	82	70 %	2100 lm
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
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	160 °	840	4000 K	82	70 %	1050 lm
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	160 °	830	3000 K	83	70 %	2000 lm
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	160 °	840	4000 K	83	70 %	2100 lm

# MASTER LEDtube EM/Mains

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)
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	160 °	865	6500 K	83	70 %	2100 lm
929001307102	MASTER LEDtube 600mm HO 8W840 T8	160 °	840	4000 K	83	70 %	1050 lm
929001877312	MASTER LEDtube 1200mm HO VWV 18W 840 T8	160 °	840	4000 K	80	70 %	2100 lm
929001877412	MASTER LEDtube 1200mm HO VWV 18W 865 T8	160 °	865	6500 K	80	70 %	2100 lm
929001877612	MASTER LEDtube 600mm HO VWV 10W 865 T8	160 °	865	6500 K	80	70 %	1050 lm
929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	160 °	830	3000 K	83	70 %	2900 lm
929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	160 °	840	4000 K	83	70 %	3100 lm
929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	160 °	865	6500 K	83	70 %	3100 lm
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	160 °	830	3000 K	83	70 %	2300 lm
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	160 °	840	4000 K	83	70 %	2500 lm
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	160 °	865	6500 K	83	70 %	2500 lm
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	160 °	865	6500 K	83	70 %	3700 lm

## Mechanical and Housing

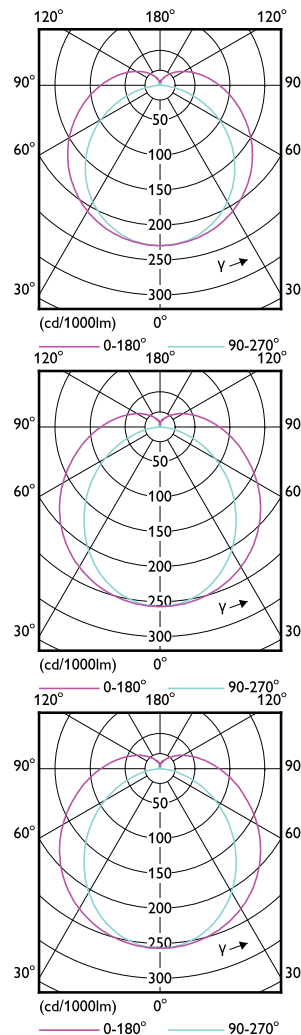
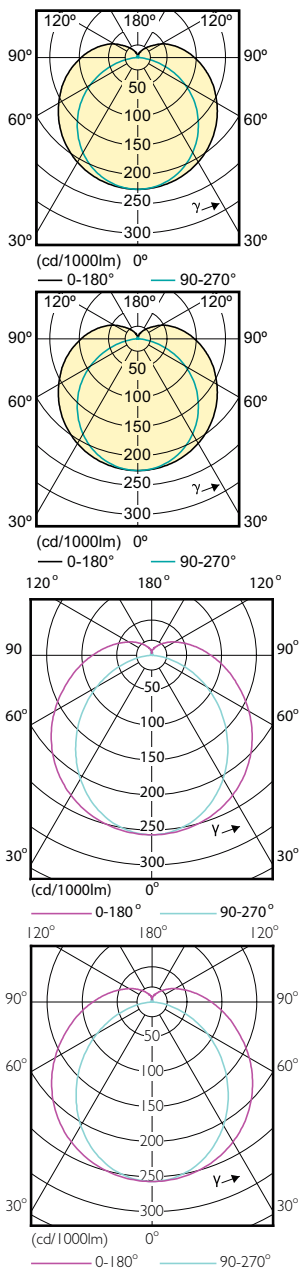
Order Code	Full Product Name	Bulb Finish	Bulb Shape	Order Code	Full Product Name	Bulb Finish	Bulb Shape
929000299902	MASTER LEDtube Starter EMP	-	-	929001877412	MASTER LEDtube 1200mm HO VWV 18W 865 T8	-	Tube, single-ended
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	-	Tube, double-ended	929001877612	MASTER LEDtube 600mm HO VWV 10W 865 T8	Frosted	Tube, single-ended
929001297608	MASTER LEDtube STD 1200mm 10.5W840 T8 I	-	Tube, double-ended	929001922902	MASTER LEDtube 1500mm HO 18.2W 830 T8	-	Tube, double-ended
929001297708	MASTER LEDtube STD 1200mm 10.5W865 T8 I	-	Tube, double-ended	929001923002	MASTER LEDtube 1500mm HO 18.2W 840 T8	-	Tube, double-ended
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	-	Tube, double-ended	929001923102	MASTER LEDtube 1500mm HO 18.2W 865 T8	-	Tube, double-ended
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	-	Tube, double-ended	929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	-	Tube, double-ended
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	-	Tube, double-ended	929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	-	Tube, double-ended
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	-	Tube, double-ended	929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	-	Tube, double-ended
929001307102	MASTER LEDtube 600mm HO 8W840 T8	Frosted	Tube, double-ended	929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	-	Tube, double-ended
929001877312	MASTER LEDtube 1200mm HO VWV 18W 840 T8	-	Tube, single-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	-	-	-	-	-
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	45 °C	-20 °C	70 °C	65 °C	-40 °C
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
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	45 °C	-20 °C	70 °C	65 °C	-40 °C
929001299208	MASTER LEDtube 1200mm HO 14W830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001299308	MASTER LEDtube 1200mm HO 14W840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C

# MASTER LEDtube EM/Mains

Order Code	Full Product Name	T-Ambient (Max)	T-Ambient (Min)	T-Case Maximum (Nom)	T-Storage (Max)	T-Storage (Min)
929001299408	MASTER LEDtube 1200mm HO 14W865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001307102	MASTER LEDtube 600mm HO 8W840 T8	35 °C	-20 °C	50 °C	65 °C	-40 °C
929001877312	MASTER LEDtube 1200mm HO VWV 18W 840 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
929001877412	MASTER LEDtube 1200mm HO VWV 18W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
929001877612	MASTER LEDtube 600mm HO VWV 10W 865 T8	45 °C	-20 °C	60 °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
929002020502	MASTER LEDtube 1200mm UO 15.5W 830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929002020602	MASTER LEDtube 1200mm UO 15.5W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929002020702	MASTER LEDtube 1200mm UO 15.5W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929002021002	MASTER LEDtube 1500mm UO 23W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C



# MASTER LEDtube EM/Mains

