



# 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

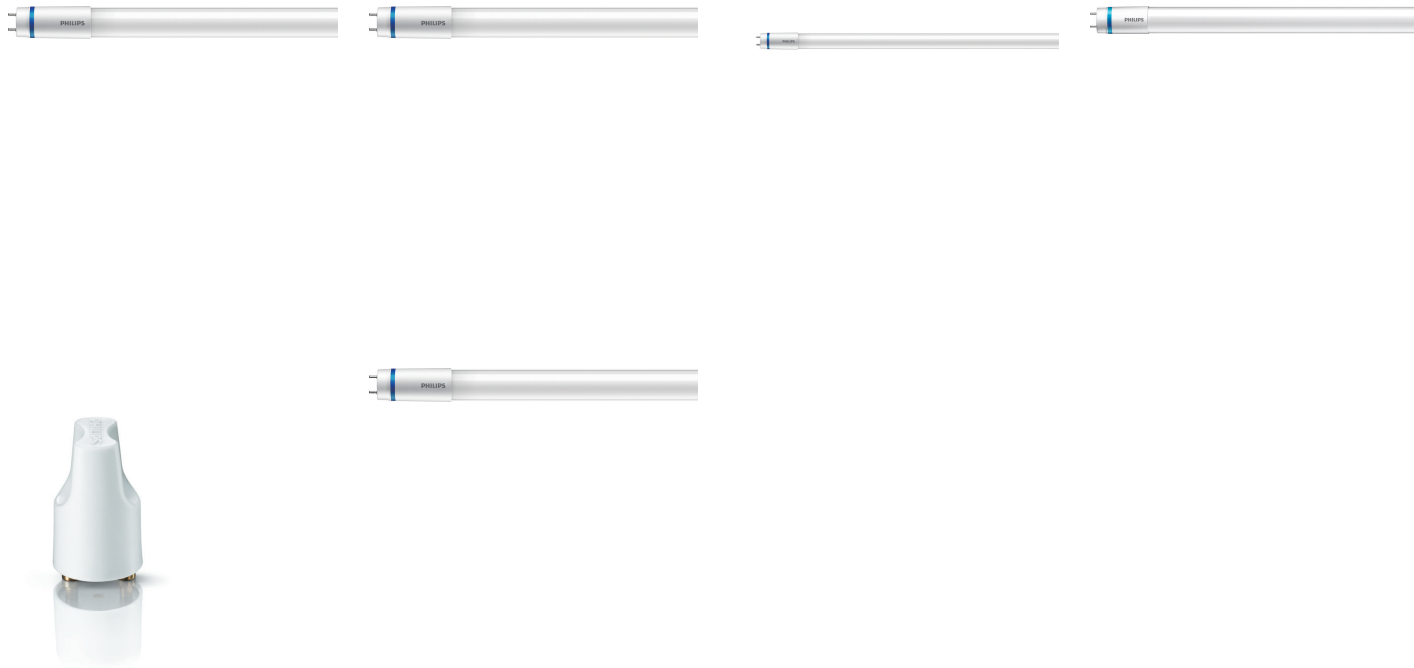
- Only 50% energy consumption compared to fluorescent tubes
- Extra-long life of 40,000 hours
- Retrofit to existing T8 lamps on EM or HF electronic gear
- Full safety features and EM Protector safety device
- No mercury

### Application

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

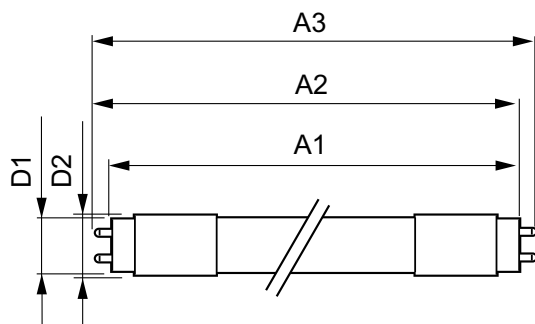
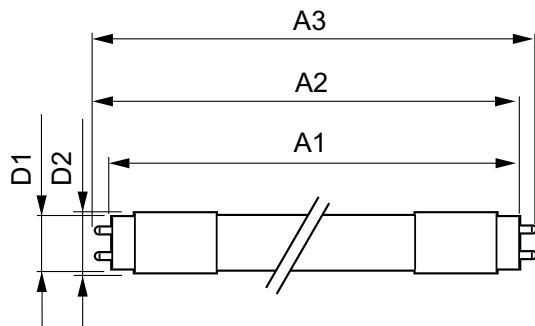
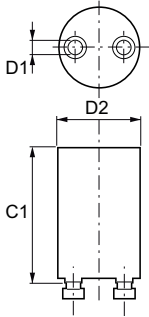
# MASTER LEDtube EM/Mains

## Versions



# MASTER LEDtube EM/Mains

## Dimensional drawing



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

Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UO 16W 865 T8	25.78 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube STD 1200mm 10.5W840 T8 I	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube STD 1200mm 10.5W865 T8 I	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
Master LEDTube 600 mm 10W 865 T8 I W	25.6 mm	27.8 mm	588.6 mm	595.7 mm	602.8 mm
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 1200 mm 18W 840 T8 I W	25.6 mm	27.8 mm	1198.1 mm	1205.2 mm	1212.3 mm
MAS LEDtube 1500mm UO 23W 865 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MAS LEDtube 1500mm UO 23W 840 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MAS LEDtube 1500mm UO 23W 830 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MAS LEDtube 1200mm UO 15.5W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube 1200mm UO 15.5W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube 1200mm UO 15.5W 830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm

Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HO 14W840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube 1200mm HO 14W865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube 1200mm HO 14W830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS 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
MAS LEDtube 1500mm HO 18.2W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MAS LEDtube 1500mm HO 18.2W 865 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MAS LEDtube 1200mm HO 12.5W 830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube 1200mm HO 12.5W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MAS LEDtube 1200mm HO 12.5W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	18 kWh	A+
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	18 kWh	A+
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	11 kWh	A++
929001297708	MAS LEDtube STD 1200mm 10.5W865 T8 I	11 kWh	A++
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	10 kWh	A+
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	10 kWh	A+
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	16 kWh	A++
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	16 kWh	A++
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	16 kWh	A++
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	16 kWh	A++
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	23 kWh	A++
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	23 kWh	A++

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929002021002	MAS LEDtube 1500mm UO 23W 865 T8	23 kWh	A++
929001299208	MAS LEDtube 1200mm HO 14W830 T8	14 kWh	A++
929001299308	MAS LEDtube 1200mm HO 14W840 T8	14 kWh	A++
929001299408	MAS LEDtube 1200mm HO 14W865 T8	14 kWh	A++
929001801432	MASTER LEDtube Starter EMP - GenII OP	-	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	13 kWh	A++
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	13 kWh	A++
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	13 kWh	A++
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	19 kWh	A++
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	19 kWh	A++
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	19 kWh	A++

## Controls and Dimming

Order Code	Full Product Name	Dimmable
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	no
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	no
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	No

Order Code	Full Product Name	Dimmable
929001297708	MAS LEDtube STD 1200mm 10.5W865 T8 I	No
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	no
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	no

## MASTER LEDtube EM/Mains

Order Code	Full Product Name	Dimmable
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	No
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	No
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	No
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	No
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	No
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	No
929002021002	MAS LEDtube 1500mm UO 23W 865 T8	No
929001299208	MAS LEDtube 1200mm HO 14W830 T8	No
929001299308	MAS LEDtube 1200mm HO 14W840 T8	No

Order Code	Full Product Name	Dimmable
929001299408	MAS LEDtube 1200mm HO 14W865 T8	No
929001801432	MASTER LEDtube Starter EMP GenII OP	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	No
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	No
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	No
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	No
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	No
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	No

### Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	50 to 60 Hz	100-240 V	18 W	0.5 s
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	50 to 60 Hz	100-240 V	18 W	0.5 s
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	50 to 60 Hz	220-240 V	10.5 W	0.5 s
929001297708	MAS LEDtube STD 1200mm 10.5W865 T8 I	50 to 60 Hz	220-240 V	10.5 W	0.5 s
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	50 to 60 Hz	100-240 V	10 W	0.5 s
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	50 to 60 Hz	100-240 V	10 W	0.5 s
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	50 to 60 Hz	220-240 V	16 W	0.5 s
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	50 to 60 Hz	220-240 V	23 W	0.5 s

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
929002021002	MAS LEDtube 1500mm UO 23W 865 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
929001299208	MAS LEDtube 1200mm HO 14W830 T8	50 to 60 Hz	220-240 V	14 W	0.5 s
929001299308	MAS LEDtube 1200mm HO 14W840 T8	50 to 60 Hz	220-240 V	14 W	0.5 s
929001299408	MAS LEDtube 1200mm HO 14W865 T8	50 to 60 Hz	220-240 V	14 W	0.5 s
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	50 to 60 Hz	220-240 V	18.2 W	0.5 s

# MASTER LEDtube EM/Mains

## General Information

Order Code	Full Product Name	Cap-Base	Nominal	Rated	Switching Cycle
			Lifetime (Nom)	Lifetime (Hours)	
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	G13	40000 h	40000 h	50000X
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	G13	40000 h	40000 h	50000X
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	G13	50000 h	50000 h	200000X
929001297708	MAS LEDtube STD 1200mm 10.5W865 T8 I	G13	50000 h	50000 h	200000X
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	G13	40000 h	40000 h	50000X
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	G13	40000 h	40000 h	50000X
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	G13	50000 h	50000 h	200000X
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	G13	60000 h	60000 h	200000X
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	G13	60000 h	60000 h	200000X
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	G13	60000 h	60000 h	200000X
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	G13	60000 h	60000 h	200000X
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	G13	60000 h	60000 h	200000X

Order Code	Full Product Name	Cap-Base	Nominal	Rated	Switching Cycle
			Lifetime (Nom)	Lifetime (Hours)	
929002021002	MAS LEDtube 1500mm UO 23W 865 T8	G13	60000 h	60000 h	200000X
929001299208	MAS LEDtube 1200mm HO 14W830 T8	G13	50000 h	50000 h	200000X
929001299308	MAS LEDtube 1200mm HO 14W840 T8	G13	50000 h	50000 h	200000X
929001299408	MAS LEDtube 1200mm HO 14W865 T8	G13	50000 h	50000 h	200000X
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	G13	60000 h	60000 h	200000X
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	G13	60000 h	60000 h	200000X
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	G13	60000 h	60000 h	200000X
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	G13	60000 h	60000 h	200000X
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	G13	60000 h	60000 h	200000X
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	G13	60000 h	60000 h	200000X

## Light Technical (1/2)

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)	Luminous Flux (Rated) (Nom)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	160 °	840	4000 K	82	70 %	2100 lm	2100 lm
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	160 °	865	6500 K	82	70 %	2100 lm	2100 lm
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	-	840	4000 K	83	70 %	1600 lm	1600 lm
929001297708	MAS LEDtube STD 1200mm 10.5W865 T8 I	-	865	6500 K	83	70 %	1600 lm	1600 lm
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	160 °	840	4000 K	82	70 %	1050 lm	1050 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)	Luminous Flux (Rated) (Nom)
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	160 °	865	6500 K	82	70 %	1050 lm	1050 lm
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	160 °	865	6500 K	83	70 %	2500 lm	2500 lm
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	160 °	830	3000 K	83	70 %	2300 lm	2300 lm
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	160 °	840	4000 K	83	70 %	2500 lm	2500 lm
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	160 °	865	6500 K	83	70 %	2500 lm	2500 lm
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	160 °	830	3000 K	83	70 %	3400 lm	3400 lm
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	160 °	840	4000 K	83	70 %	3700 lm	3700 lm
929002021002	MAS LEDtube 1500mm UO 23W 865 T8	160 °	865	6500 K	83	70 %	3700 lm	3700 lm
929001299208	MAS LEDtube 1200mm HO 14W830 T8	-	830	3000 K	83	70 %	2000 lm	2000 lm
929001299308	MAS LEDtube 1200mm HO 14W840 T8	-	840	4000 K	83	70 %	2100 lm	2100 lm
929001299408	MAS LEDtube 1200mm HO 14W865 T8	-	865	6500 K	83	70 %	2100 lm	2100 lm
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-	-	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	160 °	830	3000 K	83	70 %	2000 lm	2000 lm
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	160 °	840	4000 K	83	70 %	2100 lm	2100 lm
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	160 °	865	6500 K	83	70 %	2100 lm	2100 lm
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	160 °	830	3000 K	83	70 %	2900 lm	2900 lm
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	160 °	840	4000 K	83	70 %	3100 lm	3100 lm
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	160 °	865	6500 K	83	70 %	3100 lm	3100 lm

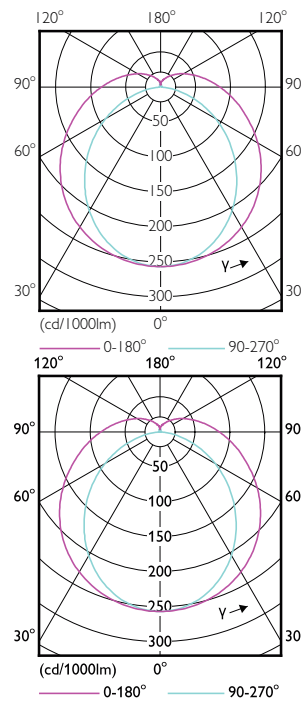
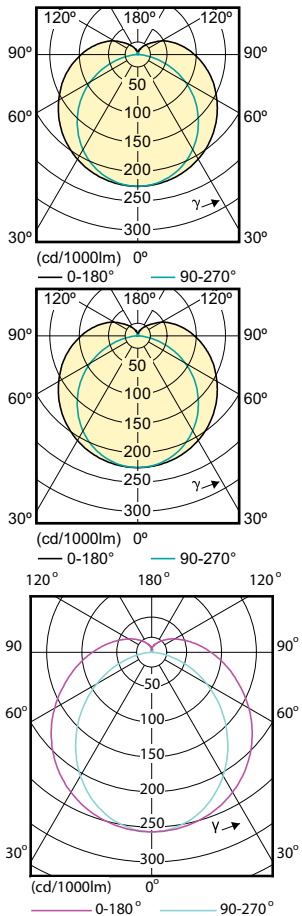
### Light Technical (2/2)

Order Code	Full Product Name	Rated Beam Angle	Order Code	Full Product Name	Rated Beam Angle
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	160 °	929002021002	MAS LEDtube 1500mm UO 23W 865 T8	160 °
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	160 °	929001299208	MAS LEDtube 1200mm HO 14W830 T8	-
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	-	929001299308	MAS LEDtube 1200mm HO 14W840 T8	-
929001297708	MAS LEDtube STD 1200mm 10.5W865 T8 I	-	929001299408	MAS LEDtube 1200mm HO 14W865 T8	-
929001187912	Master LEDTube 600 mm 10W 840 T8 I W	160 °	929001801432	MASTER LEDtube Starter EMP GenII OP	-
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	160 °	929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	160 °
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	160 °	929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	160 °
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	160 °	929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	160 °
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	160 °	929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	160 °
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	160 °	929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	160 °
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	160 °	929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	160 °
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	160 °			

### Temperature

# 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)
929001187712	Master LEDTube 1200 mm 18W 840 T8 I W	45 °C	-20 °C	70 °C	65 °C	-40 °C
929001187812	Master LEDTube 1200 mm 18W 865 T8 I W	45 °C	-20 °C	70 °C	65 °C	-40 °C
929001297608	MAS LEDtube STD 1200mm 10.5W840 T8 I	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001297708	MAS 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
929001188012	Master LEDTube 600 mm 10W 865 T8 I W	45 °C	-20 °C	70 °C	65 °C	-40 °C
929001298002	MAS LEDtube 1200mm UO 16W 865 T8	35 °C	-20 °C	55 °C	65 °C	-40 °C
929002020502	MAS LEDtube 1200mm UO 15.5W 830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929002020602	MAS LEDtube 1200mm UO 15.5W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929002020702	MAS LEDtube 1200mm UO 15.5W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929002020802	MAS LEDtube 1500mm UO 23W 830 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
929002020902	MAS LEDtube 1500mm UO 23W 840 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
929002021002	MAS LEDtube 1500mm UO 23W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
929001299208	MAS LEDtube 1200mm HO 14W830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001299308	MAS LEDtube 1200mm HO 14W840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001299408	MAS LEDtube 1200mm HO 14W865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001801432	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-
929001922602	MAS LEDtube 1200mm HO 12.5W 830 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001922802	MAS LEDtube 1200mm HO 12.5W 865 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C





# MASTER LEDtube EM/Mains

