



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

MASTER LEDtube EM/Mains

Warnings and Safety

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Versions



G13



G13



MASTER LEDtube Starter EMP
050 CP



G13



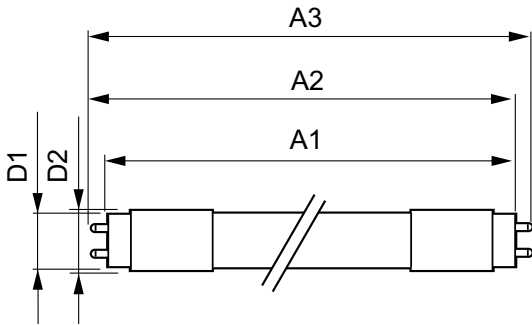
G13



Medium Bi-Pin Fluorescent Tube,
double-ended Frosted

MASTER LEDtube EM/Mains

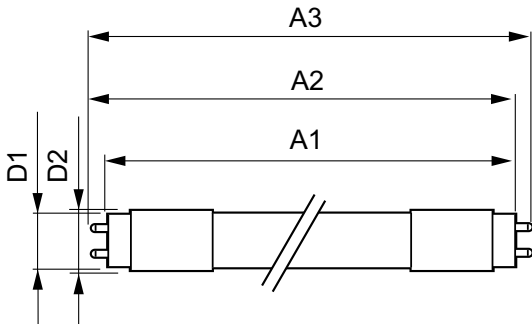
Dimensional drawing



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 600mm HO 8W830 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
MASTER LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm
MASTER LEDtube 600mm HO 8W840 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 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 1500mm UO 23W 830 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 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 1500mm UO 23W 840 T8	25.8 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube 1200mm UO 14.7W 830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1200mm UO 14.7W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UO 21.7W 830 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube 1500mm UO 21.7W 865 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube 1200mm UO 14.7W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UO 21.7W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm

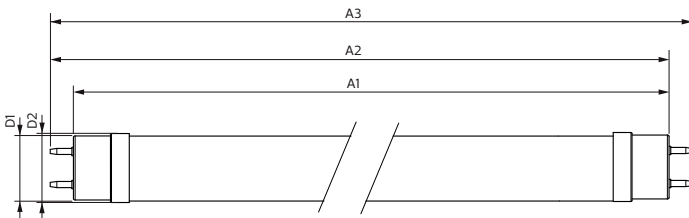
MASTER LEDtube EM/Mains

Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube 1200mm UE 14.5W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UE 21.5W 865 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube 1200mm UE 14.5W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube 1500mm UE 21.5W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 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 1050mm 16W 840 T8	25.8 mm	28 mm	1045.8 mm	1052.9 mm	1060 mm

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



Product	D1	D2	A1	A2	A3
MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube VLE 1500mm UO 23W 830 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube VLE 1500mm UO 23W 865 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm
MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	25.8 mm	28 mm	1198.2 mm	1205.3 mm	1212.4 mm
MASTER LEDtube VLE 1500mm UO 23W 840 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm

MASTER LEDtube EM/Mains

Approval and Application

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Energy Efficiency Label (EEL)
68708600	MASTER LEDtube 900mm HO 12W 840 T8	12 kWh	A++
68710900	MASTER LEDtube 900mm HO 12W 865 T8	12 kWh	A++
69747400	MASTER LEDtube 600mm HO 8W830 T8	8 kWh	A++
69749800	MASTER LEDtube 600mm HO 8W840 T8	8 kWh	A++
69751100	MASTER LEDtube 600mm HO 8W865 T8	8 kWh	A++
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	15 kWh	A++
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	15 kWh	A++
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	22 kWh	A++
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	22 kWh	A++
81965400	MASTER LEDtube Starter EMP GenII OP	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	13 kWh	A++
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	13 kWh	A++
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	13 kWh	A++
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	19 kWh	A++
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	19 kWh	A++
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	19 kWh	A++
61602100	MASTER LEDtube 1050mm 16W 840 T8	16 kWh	A++

Order Code	Full Product Name	Energy	
		Consumption kWh/ 1000 h	Energy Efficiency Label (EEL)
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	16 kWh	A++
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	16 kWh	A++
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	23 kWh	A++
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	23 kWh	A++
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	23 kWh	A++
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	15 kWh	A++
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	15 kWh	A++
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	15 kWh	A++
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	22 kWh	A++
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	22 kWh	A++
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	22 kWh	A++
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	16 kWh	A++
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	16 kWh	A++
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	16 kWh	A++
31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	23 kWh	A++
31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	23 kWh	A++
31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	23 kWh	A++

Controls and Dimming

Order Code	Full Product Name	Dimmable
68708600	MASTER LEDtube 900mm HO 12W 840 T8	No
68710900	MASTER LEDtube 900mm HO 12W 865 T8	No
69747400	MASTER LEDtube 600mm HO 8W830 T8	No
69749800	MASTER LEDtube 600mm HO 8W840 T8	No
69751100	MASTER LEDtube 600mm HO 8W865 T8	No
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	No
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	No
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	No

Order Code	Full Product Name	Dimmable
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	No
81965400	MASTER LEDtube Starter EMP GenII OP	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	No
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	No
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	No
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	No
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	No
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	No

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Order Code	Full Product Name	Dimmable
61602100	MASTER LEDtube 1050mm 16W 840 T8	No
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	No
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	No
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	No
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	No
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	No
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	No
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	No
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	No

Order Code	Full Product Name	Dimmable
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	No
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	No
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	No
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	No
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	No
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	No
31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	No
31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	No
31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	No

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
68708600	MASTER LEDtube 900mm HO 12W 840 T8	50 to 60 Hz	220-240 V	12 W	0.5 s
68710900	MASTER LEDtube 900mm HO 12W 865 T8	50 to 60 Hz	220-240 V	12 W	0.5 s
69747400	MASTER LEDtube 600mm HO 8W830 T8	50 to 60 Hz	220-240 V	8 W	0.5 s
69749800	MASTER LEDtube 600mm HO 8W840 T8	50 to 60 Hz	220-240 V	8 W	0.5 s
69751100	MASTER LEDtube 600mm HO 8W865 T8	50 to 60 Hz	220-240 V	8 W	0.5 s
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	50 to 60 Hz	220-240 V	14.5 W	0.5 s
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	50 to 60 Hz	220-240 V	14.5 W	0.5 s
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	50 to 60 Hz	220-240 V	21.5 W	0.5 s
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	50 to 60 Hz	220-240 V	21.5 W	0.5 s
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	50 to 60 Hz	220-240 V	12.5 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

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	50 to 60 Hz	220-240 V	12.5 W	0.5 s
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	50 to 60 Hz	220-240 V	18.2 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
61602100	MASTER LEDtube 1050mm 16W 840 T8	50 to 60 Hz	220-240 V	16 W	0.5 s
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	50 to 60 Hz	220-240 V	14.7 W	0.5 s
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	50 to 60 Hz	220-240 V	14.7 W	0.5 s

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Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	50 to 60 Hz	220-240 V	14.7 W	0.5 s
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	50 to 60 Hz	220-240 V	21.7 W	0.5 s
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	50 to 60 Hz	220-240 V	21.7 W	0.5 s
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	50 to 60 Hz	220-240 V	21.7 W	0.5 s
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	50 to 60 Hz	220-240 V	15.5 W	0.5 s
31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	50 to 60 Hz	220-240 V	23 W	0.5 s
31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	50 to 60 Hz	220-240 V	23 W	0.5 s

General Information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
68708600	MASTER LEDtube 900mm HO 12W 840 T8	G13 ROT (Rotating)	50000 h	200000X
68710900	MASTER LEDtube 900mm HO 12W 865 T8	G13 ROT (Rotating)	50000 h	200000X
69747400	MASTER LEDtube 600mm HO 8W830 T8	G13 ROT (Rotating)	60000 h	200000X
69749800	MASTER LEDtube 600mm HO 8W840 T8	G13 ROT (Rotating)	60000 h	200000X
69751100	MASTER LEDtube 600mm HO 8W865 T8	G13 ROT (Rotating)	60000 h	200000X
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	G13 ROT (Rotating)	70000 h	200000X
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	G13 ROT (Rotating)	70000 h	200000X
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	G13 ROT (Rotating)	70000 h	200000X
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	G13 ROT (Rotating)	70000 h	200000X
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	G13 ROT (Rotating)	60000 h	200000X
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	G13 ROT (Rotating)	60000 h	200000X
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	G13 ROT (Rotating)	60000 h	200000X
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	G13 ROT (Rotating)	60000 h	200000X

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	G13 ROT (Rotating)	60000 h	200000X
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	G13 ROT (Rotating)	60000 h	200000X
61602100	MASTER LEDtube 1050mm 16W 840 T8	G13 ROT (Rotating)	50000 h	200000X
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	G13 ROT (Rotating)	60000 h	200000X
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	G13 ROT (Rotating)	60000 h	200000X
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	G13 ROT (Rotating)	60000 h	200000X
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	G13 ROT (Rotating)	60000 h	200000X
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	G13 ROT (Rotating)	60000 h	200000X
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	G13 ROT (Rotating)	70000 h	200000X
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	G13 ROT (Rotating)	70000 h	200000X
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	G13 ROT (Rotating)	70000 h	200000X
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	G13 ROT (Rotating)	70000 h	200000X
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	G13 ROT (Rotating)	70000 h	200000X
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	G13 ROT (Rotating)	70000 h	200000X

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Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle	Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Switching Cycle
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	G13	60000 h	200000X	31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	G13	60000 h	200000X
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	G13	60000 h	200000X	31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	G13	60000 h	200000X
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	G13	60000 h	200000X	31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	G13	60000 h	200000X

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	Llmf At End Of	
						Nominal Lifetime (Nom)	Luminous Flux (Nom)
68708600	MASTER LEDtube 900mm HO 12W 840 T8	160 °	840	4000 K	83	70 %	1575 lm
68710900	MASTER LEDtube 900mm HO 12W 865 T8	160 °	865	6500 K	83	70 %	1575 lm
69747400	MASTER LEDtube 600mm HO 8W830 T8	160 °	830	3000 K	83	70 %	1000 lm
69749800	MASTER LEDtube 600mm HO 8W840 T8	160 °	840	4000 K	83	70 %	1050 lm
69751100	MASTER LEDtube 600mm HO 8W865 T8	160 °	865	6500 K	83	70 %	1050 lm
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	160 °	840	4000 K	83	70 %	2500 lm
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	160 °	865	6500 K	83	70 %	2500 lm
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	160 °	840	4000 K	83	70 %	3700 lm
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	160 °	865	6500 K	83	70 %	3700 lm
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	160 °	830	3000 K	83	70 %	2000 lm
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	160 °	840	4000 K	83	70 %	2100 lm
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	160 °	865	6500 K	83	70 %	2100 lm
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	160 °	830	3000 K	83	70 %	2900 lm
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	160 °	840	4000 K	83	70 %	3100 lm
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	160 °	865	6500 K	83	70 %	3100 lm
61602100	MASTER LEDtube 1050mm 16W 840 T8	160 °	840	4000 K	83	70 %	2500 lm
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	160 °	830	3000 K	83	70 %	2300 lm
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	160 °	865	6500 K	83	70 %	2500 lm
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	160 °	830	3000 K	83	70 %	3400 lm
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	160 °	840	4000 K	83	70 %	3700 lm
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	160 °	865	6500 K	83	70 %	3700 lm
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	160 °	830	3000 K	80	70 %	2300 lm
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	160 °	840	4000 K	80	70 %	2500 lm
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	160 °	865	6500 K	80	70 %	2500 lm
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	160 °	830	3000 K	80	70 %	3400 lm
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	160 °	840	4000 K	80	70 %	3700 lm
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	160 °	865	6500 K	80	70 %	3700 lm
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	240 °	830	3000 K	80	70 %	2300 lm
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	240 °	840	4000 K	80	70 %	2500 lm
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	240 °	865	6500 K	80	70 %	2500 lm
31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	240 °	830	3000 K	80	70 %	3400 lm
31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	240 °	840	4000 K	80	70 %	3700 lm
31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	240 °	865	6500 K	80	70 %	3700 lm

MASTER LEDtube EM/Mains

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
68708600	MASTER LEDtube 900mm HO 12W 840 T8	-	Tube, double-ended
68710900	MASTER LEDtube 900mm HO 12W 865 T8	-	Tube, double-ended
69747400	MASTER LEDtube 600mm HO 8W830 T8	Frosted	Tube, double-ended
69749800	MASTER LEDtube 600mm HO 8W840 T8	Frosted	Tube, double-ended
69751100	MASTER LEDtube 600mm HO 8W865 T8	Frosted	Tube, double-ended
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	-	Tube, double-ended
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	-	Tube, double-ended
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	-	Tube, double-ended
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	-	Tube, double-ended
81965400	MASTER LEDtube Starter EMP GenII OP	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	-	Tube, double-ended
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	-	Tube, double-ended
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	-	Tube, double-ended
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	-	Tube, double-ended
59243100	MASTER LEDtube 1500mm HO 18.2W 840 T8	-	Tube, double-ended
59245500	MASTER LEDtube 1500mm HO 18.2W 865 T8	-	Tube, double-ended
61602100	MASTER LEDtube 1050mm 16W 840 T8	-	Tube, double-ended
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	-	Tube, double-ended

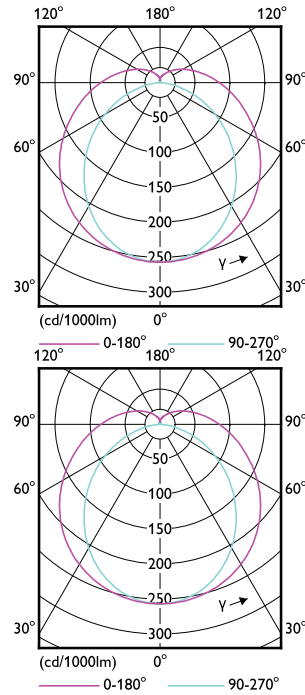
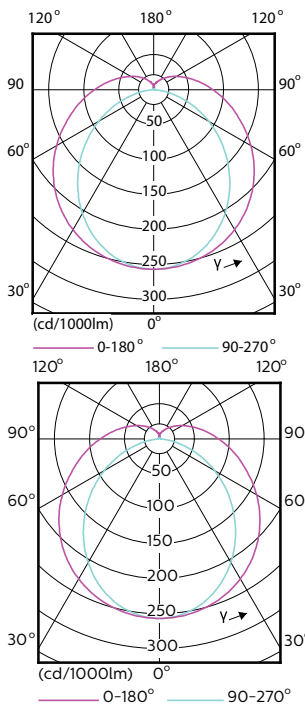
Order Code	Full Product Name	Bulb Finish	Bulb Shape
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	-	Tube, double-ended
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	-	Tube, double-ended
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	-	Tube, double-ended
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	-	Tube, double-ended
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	Frosted	Tube, double-ended
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	Frosted	Tube, double-ended
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	Frosted	Tube, double-ended
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	Frosted	Tube, double-ended
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	Frosted	Tube, double-ended
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	Frosted	Tube, double-ended
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	Frosted	Tube, double-ended
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	Frosted	Tube, double-ended
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	Frosted	Tube, double-ended
31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	Frosted	Tube, double-ended
31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	Frosted	Tube, double-ended
31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	Frosted	Tube, double-ended

Temperature

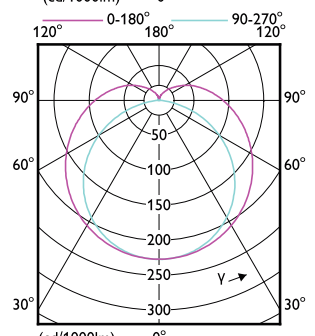
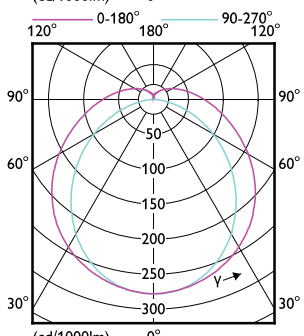
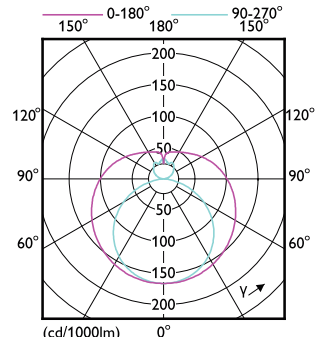
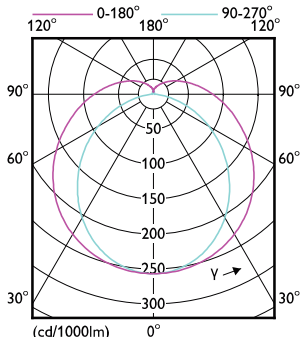
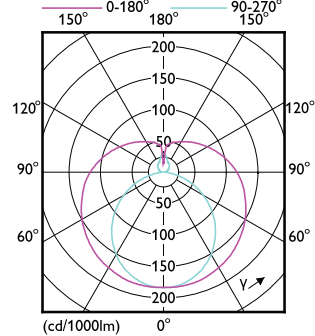
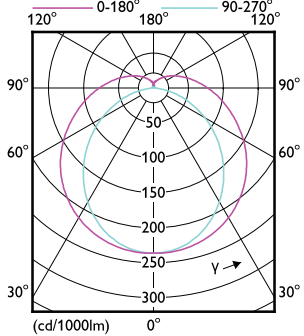
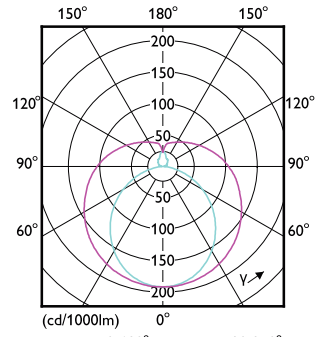
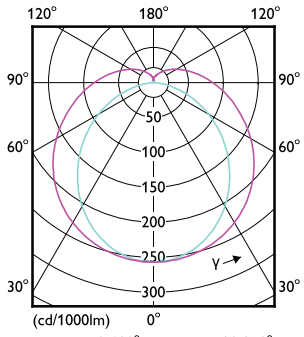
Order Code	Full Product Name	T-Ambient (Max)	T-Ambient (Min)	T-Case Maximum (Nom)	T-Storage (Max)	T-Storage (Min)
68708600	MASTER LEDtube 900mm HO 12W 840 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
68710900	MASTER LEDtube 900mm HO 12W 865 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
69747400	MASTER LEDtube 600mm HO 8W830 T8	35 °C	-20 °C	50 °C	65 °C	-40 °C
69749800	MASTER LEDtube 600mm HO 8W840 T8	35 °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
73150500	MASTER LEDtube 1200mm UE 14.5W 840 T8	35 °C	-20 °C	55 °C	65 °C	-40 °C
73152900	MASTER LEDtube 1200mm UE 14.5W 865 T8	35 °C	-20 °C	55 °C	65 °C	-40 °C
73154300	MASTER LEDtube 1500mm UE 21.5W 840 T8	35 °C	-20 °C	60 °C	65 °C	-40 °C
73156700	MASTER LEDtube 1500mm UE 21.5W 865 T8	35 °C	-20 °C	60 °C	65 °C	-40 °C
81965400	MASTER LEDtube Starter EMP GenII OP	-	-	-	-	-
59235600	MASTER LEDtube 1200mm HO 12.5W 830 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
59237000	MASTER LEDtube 1200mm HO 12.5W 840 T8	45 °C	-20 °C	50 °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)
59239400	MASTER LEDtube 1200mm HO 12.5W 865 T8	45 °C	-20 °C	50 °C	65 °C	-40 °C
59241700	MASTER LEDtube 1500mm HO 18.2W 830 T8	45 °C	-20 °C	55 °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
61602100	MASTER LEDtube 1050mm 16W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
64721600	MASTER LEDtube 1200mm UO 15.5W 830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
64725400	MASTER LEDtube 1200mm UO 15.5W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
64727800	MASTER LEDtube 1500mm UO 23W 830 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
64729200	MASTER LEDtube 1500mm UO 23W 840 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
64731500	MASTER LEDtube 1500mm UO 23W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31656000	MASTER LEDtube 1200mm UO 14.7W 830 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
31658400	MASTER LEDtube 1200mm UO 14.7W 840 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
31660700	MASTER LEDtube 1200mm UO 14.7W 865 T8	45 °C	-20 °C	55 °C	65 °C	-40 °C
31662100	MASTER LEDtube 1500mm UO 21.7W 830 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31664500	MASTER LEDtube 1500mm UO 21.7W 840 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31666900	MASTER LEDtube 1500mm UO 21.7W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31680500	MASTER LEDtube VLE 1200mm UO 15.5W 830 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31682900	MASTER LEDtube VLE 1200mm UO 15.5W 840 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31684300	MASTER LEDtube VLE 1200mm UO 15.5W 865 T8	45 °C	-20 °C	60 °C	65 °C	-40 °C
31686700	MASTER LEDtube VLE 1500mm UO 23W 830 T8	45 °C	-20 °C	65 °C	65 °C	-40 °C
31688100	MASTER LEDtube VLE 1500mm UO 23W 840 T8	45 °C	-20 °C	65 °C	65 °C	-40 °C
31690400	MASTER LEDtube VLE 1500mm UO 23W 865 T8	45 °C	-20 °C	65 °C	65 °C	-40 °C



MASTER LEDtube EM/Mains



MASTER LEDtube EM/Mains

