



For top performance and sustainability

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. These T8 LED tubes are the right choice for absolute performance and are designed to stand up to everyday conditions. Unparalleled savings thanks to low energy consumption and an exceptionally long lifetime ensure this tube masters every demanding application.

Benefits

- Absolute performance that provides a solution for every application
- Unparalleled savings with low energy consumption and long lifetime
- Robust and reliable: stands up to everyday conditions

Features

- Retrofit existing T8 lamps on EM ballast or mains
- > 50% energy savings compared to fluorescent tubes with up to 185lm/W
- Extra-long life up to 75,000 hours
- Shatterproof, passing drop test horizontally from a height of 4m on to a flat concrete according to IEC 61549.
- Enable easy implementation of HACCP without need for additional guard, supported by product level NSF certificate
- 160° small beam angle to ensure higher flux where needed
- No mercury

Application

- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas
- Food & Museums

MASTER LEDtube EM/Mains T8

Warnings and Safety

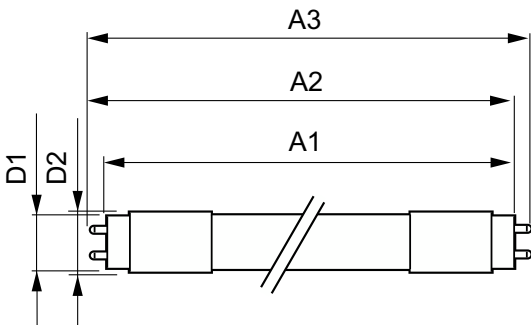
- NOTE: The overall energy efficiency and light distribution of any installation that uses these lamps will be determined by the design of the installation.

Versions



Standard Product Photo

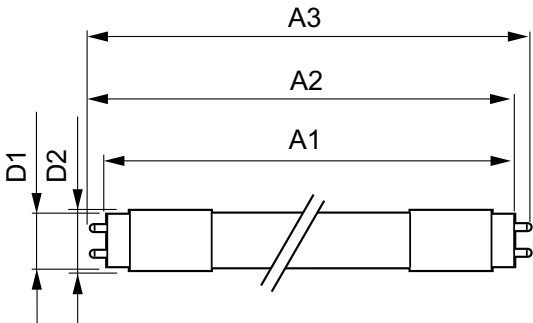
Dimensional drawing



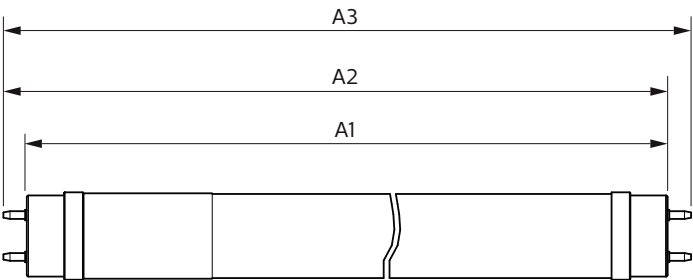
Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm 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 20W 830 T8 EELC	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UO 20W 840 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UO 20W 865 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 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 8W865 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 900mm HO 12W 865 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

MASTER LEDtube EM/Mains T8

Dimensional drawing



Product	D1	D2	A1	A2	A3
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 13W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 13W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 13W865 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 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	595.7 mm	598.8 mm	604 mm
MAS LEDtube 600mm HO 8W840 T8	25.8 mm	28 mm	595.7 mm	598.8 mm	604 mm
MAS LEDtube 600mm HO 8W865 T8	25.8 mm	28 mm	595.7 mm	598.8 mm	604 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
MAS LEDtube STD 1200mm 10W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube STD 1200mm 10W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm



Product	D1	D2	A1	A2	A3
MAS LEDtube DE 1200mm 13W865 100-240V T8	26 mm	28 mm	1,198 mm	1,205 mm	1,212 mm

MASTER LEDtube EM/Mains T8

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
Starting Time (Nom)	0.5 s
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	Order Code	Full Product Name	Cap-Base	Nominal lifetime
929001298502	MAS LEDtube 900mm HO 12W 865 T8	G13 ROT	75,000 hour(s)	929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	G13	60,000 hour(s)
929001307202	MAS LEDtube 600mm HO 8W865 T8	G13 ROT	75,000 hour(s)	929003556208	MAS LEDtube 1200mm HO 14W865 T8	G13	60,000 hour(s)
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	G13 ROT	75,000 hour(s)	929003805708	MAS LEDtube 600mm HO 8W830 T8	G13	60,000 hour(s)
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	G13 ROT	75,000 hour(s)	929003805808	MAS LEDtube 600mm HO 8W840 T8	G13	60,000 hour(s)
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	G13 ROT	75,000 hour(s)	929003805908	MAS LEDtube 600mm HO 8W865 T8	G13	60,000 hour(s)
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	G13 ROT	75,000 hour(s)	929003806008	MAS LEDtube 1200mm HO 13W830 T8	G13	60,000 hour(s)
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	G13 ROT	75,000 hour(s)	929003806108	MAS LEDtube 1200mm HO 13W840 T8	G13	60,000 hour(s)
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	G13 ROT	75,000 hour(s)	929003806208	MAS LEDtube 1200mm HO 13W865 T8	G13	60,000 hour(s)
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	G13 ROT	75,000 hour(s)	929003806308	MAS LEDtube STD 1200mm 10W840 T8	G13	60,000 hour(s)
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	G13 ROT	75,000 hour(s)	929003806408	MAS LEDtube STD 1200mm 10W865 T8	G13	60,000 hour(s)
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	G13 ROT	75,000 hour(s)	929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	G13 ROT	75,000 hour(s)
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	G13 ROT	75,000 hour(s)	929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	G13 ROT	75,000 hour(s)
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	G13 ROT	75,000 hour(s)	929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	G13 ROT	75,000 hour(s)
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	G13 ROT	75,000 hour(s)	929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	G13	50,000 hour(s)

Light Technical

			Color rendering index			
Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	(CRI)	Color Code	Luminous Flux
929001298502	MAS LEDtube 900mm HO 12W 865 T8	160 degree(s)	6500 K	80	865	1,575 lm
929001307202	MAS LEDtube 600mm HO 8W865 T8	160 degree(s)	6500 K	83	865	1,050 lm
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	160 degree(s)	3000 K	80	830	2,300 lm
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	160 degree(s)	4000 K	80	840	2,500 lm
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	160 degree(s)	6500 K	80	865	2,500 lm
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	160 degree(s)	3000 K	80	830	3,400 lm

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Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index		Luminous Flux
				(CRI)	Color Code	
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	160 degree(s)	4000 K	80	840	3,700 lm
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	160 degree(s)	6500 K	80	865	3,700 lm
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	160 degree(s)	3000 K	80	830	2,300 lm
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	160 degree(s)	4000 K	80	840	2,500 lm
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	160 degree(s)	6500 K	80	865	2,500 lm
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	160 degree(s)	3000 K	80	830	3,400 lm
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	160 degree(s)	4000 K	80	840	3,700 lm
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	160 degree(s)	6500 K	80	865	3,700 lm
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	190 degree(s)	6500 K	80	865	1,600 lm
929003556208	MAS LEDtube 1200mm HO 14W865 T8	190 degree(s)	6500 K	80	865	2,100 lm
929003805708	MAS LEDtube 600mm HO 8W830 T8	190 degree(s)	3000 K	80	830	1,150 lm
929003805808	MAS LEDtube 600mm HO 8W840 T8	190 degree(s)	4000 K	80	840	1,200 lm
929003805908	MAS LEDtube 600mm HO 8W865 T8	190 degree(s)	6500 K	80	865	1,200 lm
929003806008	MAS LEDtube 1200mm HO 13W830 T8	190 degree(s)	3000 K	80	830	2,000 lm
929003806108	MAS LEDtube 1200mm HO 13W840 T8	190 degree(s)	4000 K	80	840	2,100 lm
929003806208	MAS LEDtube 1200mm HO 13W865 T8	190 degree(s)	6500 K	80	865	2,100 lm
929003806308	MAS LEDtube STD 1200mm 10W840 T8	190 degree(s)	4000 K	80	840	1,600 lm
929003806408	MAS LEDtube STD 1200mm 10W865 T8	190 degree(s)	6500 K	80	865	1,600 lm
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	160 degree(s)	4000 K	80	840	2,100 lm
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	160 degree(s)	4000 K	80	840	3,100 lm
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	160 degree(s)	6500 K	80	865	3,100 lm
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	240 degree(s)	6500 K	80	865	2,100 lm

Operating and Electrical

Order Code	Full Product Name	Line	Power	Wattage	Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent			Frequency	Consumption	Equivalent
929001298502	MAS LEDtube 900mm HO 12W 865 T8	50 to 60 Hz	12 W	-	929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	-	13.5 W	-
929001307202	MAS LEDtube 600mm HO 8W865 T8	50 to 60 Hz	8 W	-	929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	-	13.5 W	-
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	50 to 60 Hz	14.7 W	-	929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	-	13.5 W	-
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	50 to 60 Hz	14.7 W	-	929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	-	20 W	-
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	50 to 60 Hz	14.7 W	-	929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	-	20 W	-
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	50 to 60 Hz	21.7 W	-	929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	-	20 W	-
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	50 to 60 Hz	21.7 W	-	929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 to 60 Hz	10.5 W	-
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	50 to 60 Hz	21.7 W	-	929003556208	MAS LEDtube 1200mm HO 14W865 T8	50 to 60 Hz	14 W	-

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Order Code	Full Product Name	Line Frequency	Power Consumption	Wattage Equivalent
929003805708	MAS LEDtube 600mm HO 8W830 T8	-	8 W	18 W
929003805808	MAS LEDtube 600mm HO 8W840 T8	-	8 W	18 W
929003805908	MAS LEDtube 600mm HO 8W865 T8	-	8 W	18 W
929003806008	MAS LEDtube 1200mm HO 13W830 T8	-	13 W	36 W
929003806108	MAS LEDtube 1200mm HO 13W840 T8	-	13 W	36 W
929003806208	MAS LEDtube 1200mm HO 13W865 T8	-	13 W	36 W

Order Code	Full Product Name	Line Frequency	Power Consumption	Wattage Equivalent
929003806308	MAS LEDtube STD 1200mm 10W840 T8	-	10 W	36 W
929003806408	MAS LEDtube STD 1200mm 10W865 T8	-	10 W	36 W
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	50 to 60 Hz	12.5 W	-
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	50 to 60 Hz	18.2 W	-
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	50 to 60 Hz	18.2 W	-
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	50 to 60 Hz	13 W	-

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001298502	MAS LEDtube 900mm HO 12W 865 T8	50 °C
929001307202	MAS LEDtube 600mm HO 8W865 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
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	50 °C
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	50 °C
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	50 °C
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	50 °C
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	50 °C
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	50 °C
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003556208	MAS LEDtube 1200mm HO 14W865 T8	50 °C
929003805708	MAS LEDtube 600mm HO 8W830 T8	50 °C
929003805808	MAS LEDtube 600mm HO 8W840 T8	50 °C
929003805908	MAS LEDtube 600mm HO 8W865 T8	50 °C
929003806008	MAS LEDtube 1200mm HO 13W830 T8	50 °C
929003806108	MAS LEDtube 1200mm HO 13W840 T8	50 °C
929003806208	MAS LEDtube 1200mm HO 13W865 T8	50 °C
929003806308	MAS LEDtube STD 1200mm 10W840 T8	50 °C
929003806408	MAS LEDtube STD 1200mm 10W865 T8	50 °C
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	50 °C
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	55 °C
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	55 °C
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	65 °C

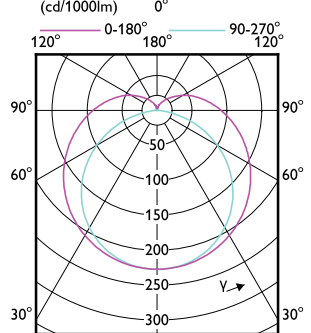
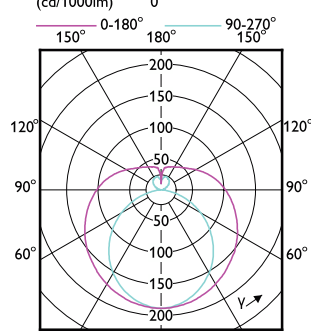
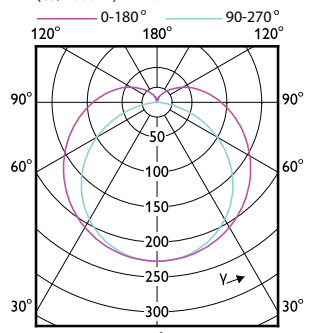
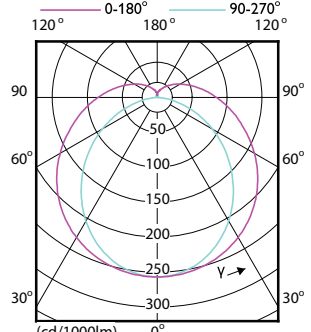
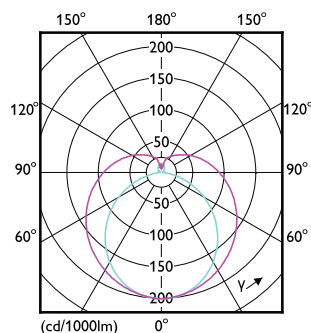
Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929001298502	MAS LEDtube 900mm HO 12W 865 T8	-20 °C to 45 °C	12 kWh
929001307202	MAS LEDtube 600mm HO 8W865 T8	-20 °C to 45 °C	8 kWh
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	-20 °C to 45 °C	15 kWh

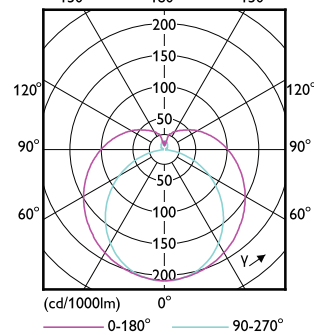
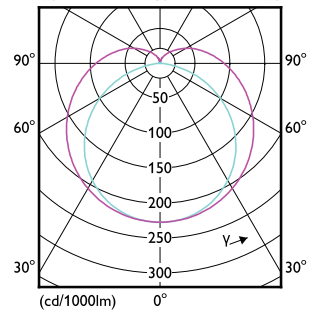
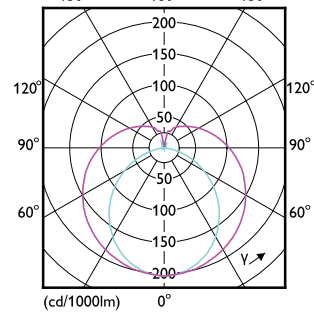
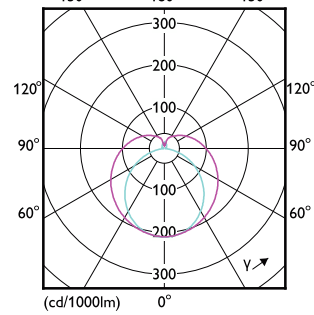
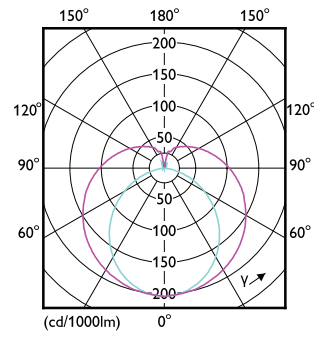
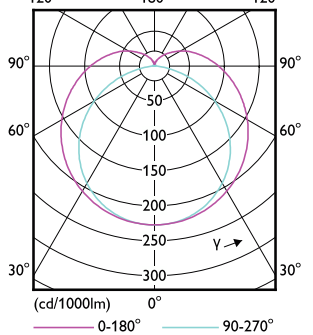
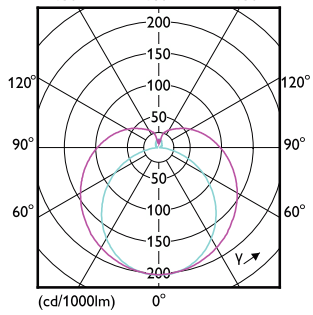
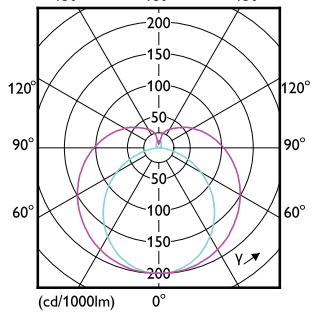
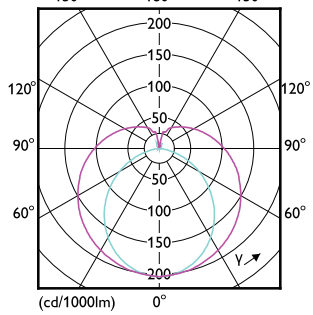
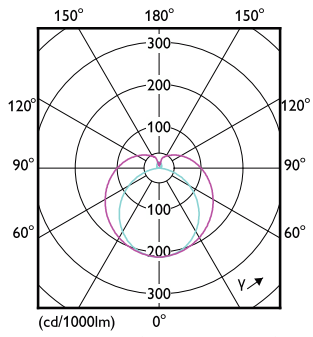
Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	-20 °C to 45 °C	15 kWh
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	-20 °C to 45 °C	15 kWh
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	-20 °C to 45 °C	22 kWh

MASTER LEDtube EM/Mains T8

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	-20 °C to +45 °C	22 kWh
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	-20 °C to +45 °C	22 kWh
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	-20 to +45 °C	14 kWh
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	-20 to +45 °C	14 kWh
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	-20 to +45 °C	14 kWh
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	-20 to +45 °C	20 kWh
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	-20 to +45 °C	20 kWh
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	-20 to +45 °C	20 kWh
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	-20 °C to +45 °C	-
929003556208	MAS LEDtube 1200mm HO 14W865 T8	-20 °C to +45 °C	-
929003805708	MAS LEDtube 600mm HO 8W830 T8	-20 to +45 °C	-
929003805808	MAS LEDtube 600mm HO 8W840 T8	-20 to +45 °C	-
929003805908	MAS LEDtube 600mm HO 8W865 T8	-20 to +45 °C	-
929003806008	MAS LEDtube 1200mm HO 13W830 T8	-20 to +45 °C	-
929003806108	MAS LEDtube 1200mm HO 13W840 T8	-20 to +45 °C	-
929003806208	MAS LEDtube 1200mm HO 13W865 T8	-20 to +45 °C	-
929003806308	MAS LEDtube STD 1200mm 10W840 T8	-20 to +45 °C	-
929003806408	MAS LEDtube STD 1200mm 10W865 T8	-20 to +45 °C	-
929001922702	MAS LEDtube 1200mm HO 12.5W 840 T8	-20 °C to +45 °C	13 kWh
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	-20 °C to +45 °C	19 kWh
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	-20 °C to +45 °C	19 kWh
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	-20 °C to +45 °C	-



MASTER LEDtube EM/Mains T8



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