



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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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

- –
- –

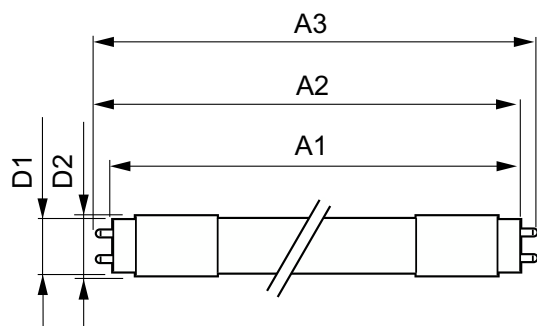
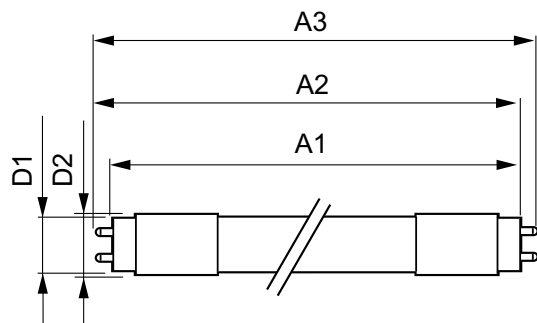
Versions



LEDtube Starter

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 13.5W 830 T8 ID	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 ID	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 ID	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 1500mm UO 20W 865 T8 EELB	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

Product	D1	D2	A1	A2	A3
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 14W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm MO 23W840 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
MAS LEDtube 1200mm MO 23W865 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
MAS LEDtube 1200mm UO+ 18.7W840 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
MAS LEDtube 1200mm UO+ 18.7W865 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 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

MASTER LEDtube EM/Mains T8

Light Technical

LLMF At End Of Nominal Lifetime 70 %
(Nom)

Controls and Dimming

Dimmable No

General Information

Order Code	Full Product Name	Cap-Base	Switching Cycle	Nominal lifetime	Order Code	Full Product Name	Cap-Base	Switching Cycle	Nominal lifetime
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	G13 ROT	200,000	75,000 hour(s)	929003556208	MAS LEDtube 1200mm HO 14W865 T8	G13	200,000	60,000 hour(s)
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	G13	200,000	60,000 hour(s)	929003805708	MAS LEDtube 600mm HO 8W830 T8	G13	200,000	60,000 hour(s)
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	G13	200,000	60,000 hour(s)	929003805808	MAS LEDtube 600mm HO 8W840 T8	G13	200,000	60,000 hour(s)
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	G13	200,000	60,000 hour(s)	929003805908	MAS LEDtube 600mm HO 8W865 T8	G13	200,000	60,000 hour(s)
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	G13	200,000	60,000 hour(s)	929003806308	MAS LEDtube STD 1200mm 10W840 T8	G13	200,000	60,000 hour(s)
929004241817	MAS LEDtube 1200mm UO 13.5W 830 T8 ID	G13 ROT	200,000	75,000 hour(s)	929003806408	MAS LEDtube STD 1200mm 10W865 T8	G13	200,000	60,000 hour(s)
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	G13 ROT	200,000	75,000 hour(s)	929004245808	MAS LEDtube 1200mm UO+ 18.7W840 T8	G13	200,000	60,000 hour(s)
929004242017	MAS LEDtube 1200mm UO 13.5W 865 T8 ID	G13 ROT	200,000	75,000 hour(s)	929004245908	MAS LEDtube 1200mm UO+ 18.7W865 T8	G13	200,000	60,000 hour(s)
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	G13 ROT	200,000	75,000 hour(s)	929004246008	MAS LEDtube 1200mm MO 23W840 T8	G13	200,000	60,000 hour(s)
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	G13	200,000	60,000 hour(s)	929004246108	MAS LEDtube 1200mm MO 23W865 T8	G13	200,000	60,000 hour(s)
929003556008	MAS LEDtube 1200mm HO 14W830 T8	G13	200,000	60,000 hour(s)	929003481702	MASTER LEDtube Starter EMP GenIII	-	-	-

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index		Color Code	Luminous Flux
				(CRI)			
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	160 degree(s)	3000 K	80		830	2,300 lm
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	190 degree(s)	4000 K	80		840	2,100 lm
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	190 degree(s)	6500 K	80		865	2,100 lm
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	190 degree(s)	4000 K	80		840	1,050 lm
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	190 degree(s)	6500 K	80		865	1,050 lm
929004241817	MAS LEDtube 1200mm UO 13.5W 830 T8 ID	160 degree(s)	3000 K	80		830	2,300 lm
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	160 degree(s)	4000 K	80		840	2,500 lm
929004242017	MAS LEDtube 1200mm UO 13.5W 865 T8 ID	160 degree(s)	6500 K	80		865	2,500 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
929003556008	MAS LEDtube 1200mm HO 14W830 T8	190 degree(s)	3000 K	80		830	2,000 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

MASTER LEDtube EM/Mains T8

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index		
				(CRI)	Color Code	Luminous Flux
929003805908	MAS LEDtube 600mm HO 8W865 T8	190 degree(s)	6500 K	80	865	1,200 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
929004245808	MAS LEDtube 1200mm UO+ 18.7W840 T8	160 degree(s)	4000 K	80	840	3,000 lm
929004245908	MAS LEDtube 1200mm UO+ 18.7W865 T8	160 degree(s)	6500 K	80	865	3,000 lm
929004246008	MAS LEDtube 1200mm MO 23W840 T8	160 degree(s)	4000 K	80	840	3,700 lm
929004246108	MAS LEDtube 1200mm MO 23W865 T8	160 degree(s)	6500 K	80	865	3,700 lm
929003481702	MASTER LEDtube Starter EMP GenIII	-	-	-	-	-

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Starting Time (Nom)	Wattage Equivalent
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	50 to 60 Hz	50 to 60 Hz	14.7 W	0.5 s	-
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	50 to 60 Hz	50 to 60 Hz	18 W	0.5 s	-
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	50 to 60 Hz	50 to 60 Hz	18 W	0.5 s	-
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	50 to 60 Hz	50 to 60 Hz	10 W	0.5 s	-
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	50 to 60 Hz	50 to 60 Hz	10 W	0.5 s	-
929004241817	MAS LEDtube 1200mm UO 13.5W 830 T8 ID	50 to 60 Hz	-	13.5 W	0.5 s	36 W
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	50 to 60 Hz	-	13.5 W	0.5 s	36 W
929004242017	MAS LEDtube 1200mm UO 13.5W 865 T8 ID	50 to 60 Hz	-	13.5 W	0.5 s	36 W
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	50 to 60 Hz	-	20 W	0.5 s	-
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 to 60 Hz	50 to 60 Hz	10.5 W	0.5 s	-
929003556008	MAS LEDtube 1200mm HO 14W830 T8	50 to 60 Hz	50 to 60 Hz	14 W	0.5 s	-
929003556208	MAS LEDtube 1200mm HO 14W865 T8	50 to 60 Hz	50 to 60 Hz	14 W	0.5 s	-
929003805708	MAS LEDtube 600mm HO 8W830 T8	50 to 60 Hz	-	8 W	0.5 s	18 W
929003805808	MAS LEDtube 600mm HO 8W840 T8	50 to 60 Hz	-	8 W	0.5 s	18 W
929003805908	MAS LEDtube 600mm HO 8W865 T8	50 to 60 Hz	-	8 W	0.5 s	18 W
929003806308	MAS LEDtube STD 1200mm 10W840 T8	50 to 60 Hz	-	10 W	0.5 s	36 W
929003806408	MAS LEDtube STD 1200mm 10W865 T8	50 to 60 Hz	-	10 W	0.5 s	36 W
929004245808	MAS LEDtube 1200mm UO+ 18.7W840 T8	50 to 60 Hz	-	18.7 W	0.5 s	38 W
929004245908	MAS LEDtube 1200mm UO+ 18.7W865 T8	50 to 60 Hz	-	18.7 W	0.5 s	38 W
929004246008	MAS LEDtube 1200mm MO 23W840 T8	50 to 60 Hz	-	23 W	0.5 s	48 W
929004246108	MAS LEDtube 1200mm MO 23W865 T8	50 to 60 Hz	-	23 W	0.5 s	48 W
929003481702	MASTER LEDtube Starter EMP GenIII	- Hz	- Hz	-	-	-

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	55 °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
929004241817	MAS LEDtube 1200mm UO 13.5W 830 T8 ID	50 °C
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	50 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929004242017	MAS LEDtube 1200mm UO 13.5W 865 T8 ID	50 °C
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	50 °C
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 °C
929003556008	MAS LEDtube 1200mm HO 14W830 T8	50 °C
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
929003806308	MAS LEDtube STD 1200mm 10W840 T8	50 °C
929003806408	MAS LEDtube STD 1200mm 10W865 T8	50 °C
929004245808	MAS LEDtube 1200mm UO+ 18.7W840 T8	50 °C

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Order Code	Full Product Name	T-Case Maximum (Nom)
929004245908	MAS LEDtube 1200mm UO+ 18.7W865 T8	50 °C
929004246008	MAS LEDtube 1200mm MO 23W840 T8	55 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929004246108	MAS LEDtube 1200mm MO 23W865 T8	55 °C
929003481702	MASTER LEDtube Starter EMP GenIII	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	Frosted	T8
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	Frosted	T8
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	Frosted	T8
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	Frosted	T8
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	Frosted	T8
929004241817	MAS LEDtube 1200mm UO 13.5W 830 T8 ID	Frosted	T8
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	Frosted	T8
929004242017	MAS LEDtube 1200mm UO 13.5W 865 T8 ID	Frosted	T8
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	Frosted	T8

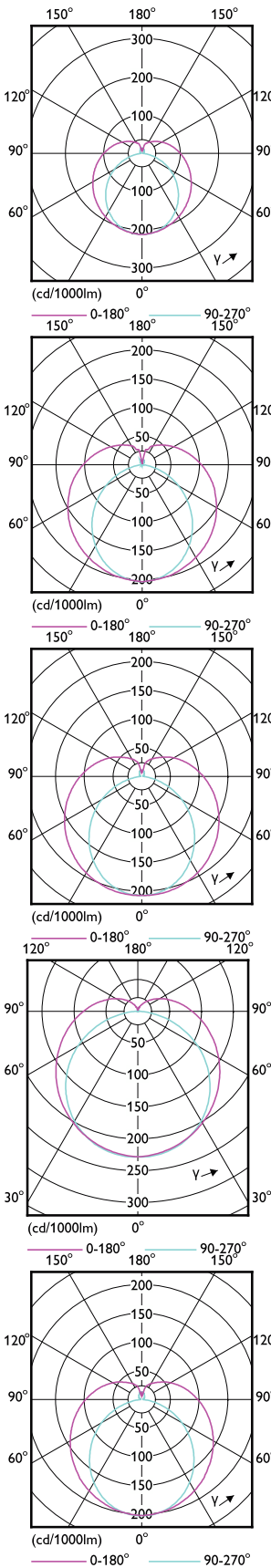
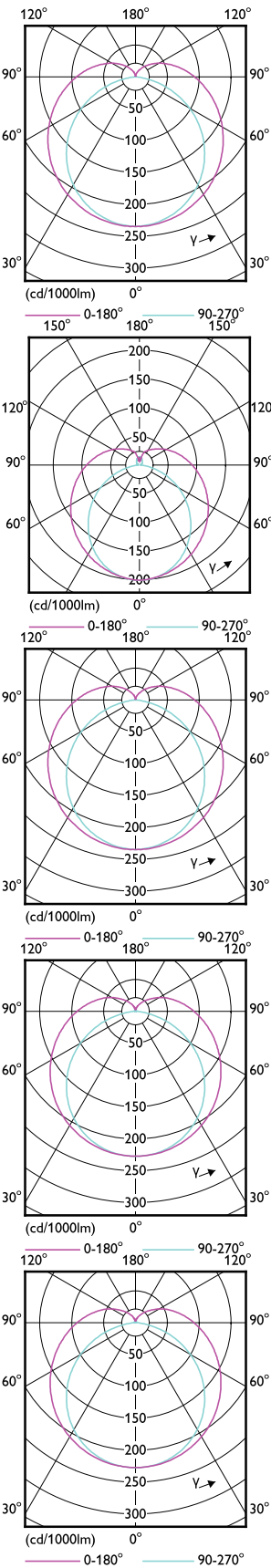
Order Code	Full Product Name	Bulb Finish	Bulb Shape
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	Frosted	T8
929003556008	MAS LEDtube 1200mm HO 14W830 T8	Frosted	T8
929003556208	MAS LEDtube 1200mm HO 14W865 T8	Frosted	T8
929003805708	MAS LEDtube 600mm HO 8W830 T8	Frosted	T8
929003805808	MAS LEDtube 600mm HO 8W840 T8	Frosted	T8
929003805908	MAS LEDtube 600mm HO 8W865 T8	Frosted	T8
929003806308	MAS LEDtube STD 1200mm 10W840 T8	Frosted	T8
929003806408	MAS LEDtube STD 1200mm 10W865 T8	Frosted	T8
929004245808	MAS LEDtube 1200mm UO+ 18.7W840 T8	Frosted	T8
929004245908	MAS LEDtube 1200mm UO+ 18.7W865 T8	Frosted	T8
929004246008	MAS LEDtube 1200mm MO 23W840 T8	Frosted	T8
929004246108	MAS LEDtube 1200mm MO 23W865 T8	Frosted	T8
929003481702	MASTER LEDtube Starter EMP GenIII	-	-

Approval and Application

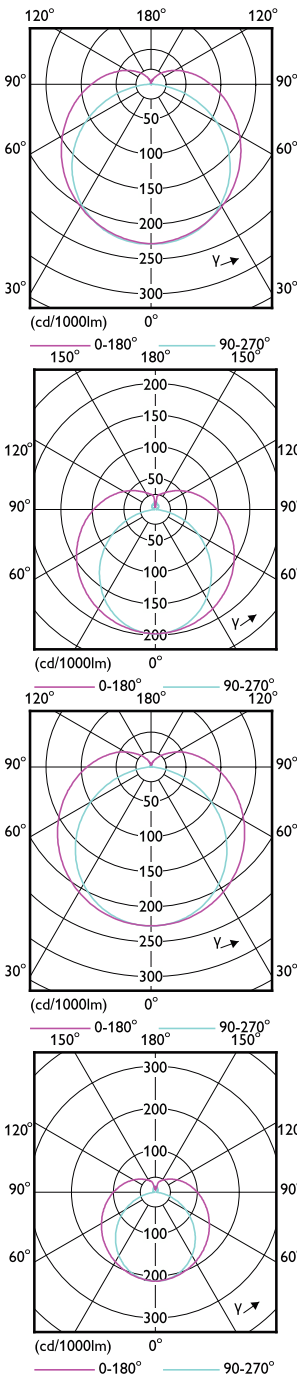
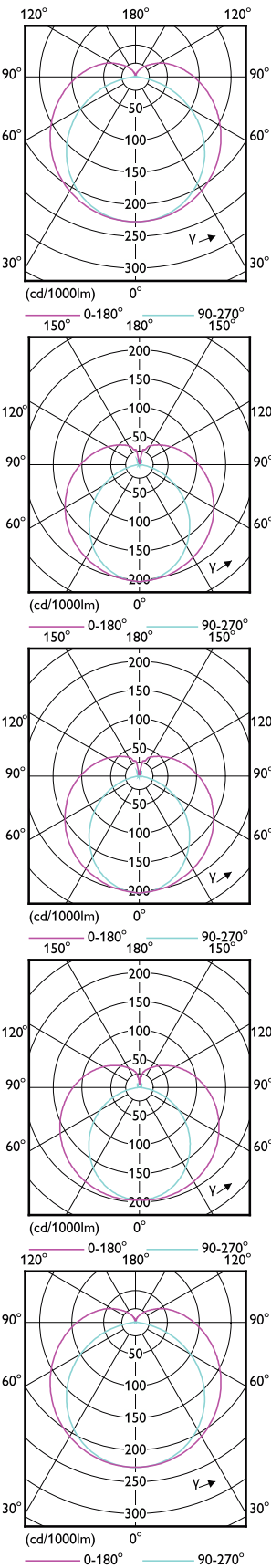
Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	-20 °C to 45 °C	15 kWh
929003557908	MAS LEDtube 1200mm HO VWV 18W 840 T8 GM	-20 °C to 45 °C	-
929003558008	MAS LEDtube 1200mm HO VWV 18W 865 T8 GM	-20 °C to 45 °C	-
929003558108	MAS LEDtube 600mm HO VWV 10W 840 T8 GM	-20 °C to 45 °C	-
929003558208	MAS LEDtube 600mm HO VWV 10W 865 T8 GM	-20 °C to 45 °C	-
929004241817	MAS LEDtube 1200mm UO 13.5W 830 T8 ID	-20 to +45 °C	-
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	-20 to +45 °C	-
929004242017	MAS LEDtube 1200mm UO 13.5W 865 T8 ID	-20 to +45 °C	-
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	-
929003556008	MAS LEDtube 1200mm HO 14W830 T8	-20 °C to 45 °C	-
929003556208	MAS LEDtube 1200mm HO 14W865 T8	-20 °C to 45 °C	-

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
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	-
929003806308	MAS LEDtube STD 1200mm 10W840 T8	-20 to +45 °C	-
929003806408	MAS LEDtube STD 1200mm 10W865 T8	-20 to +45 °C	-
929004245808	MAS LEDtube 1200mm UO + 18.7W840 T8	-20 to +45 °C	-
929004245908	MAS LEDtube 1200mm UO + 18.7W865 T8	-20 to +45 °C	-
929004246008	MAS LEDtube 1200mm MO 23W840 T8	-20 to +45 °C	-
929004246108	MAS LEDtube 1200mm MO 23W865 T8	-20 to +45 °C	-
929003481702	MASTER LEDtube Starter EMP GenIII	-	-

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