



For top performance and sustainability

MASTER LED tube InstantFit HF T5

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 T5 lighting 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 make these T5 LED tubes the choice for 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 T5 lamps with HF ballast
- Compatible with a wide range of ballasts
- > 50% energy savings compared to fluorescent tubes with up to 155lm/W
- Extra-long life up to 60,000 hours
- Ultra output up to 5600lm
- Enable implementation of HACCP, supported by product level NSF certificate
- No mercury

Application

- Office
- Schools
- Retail

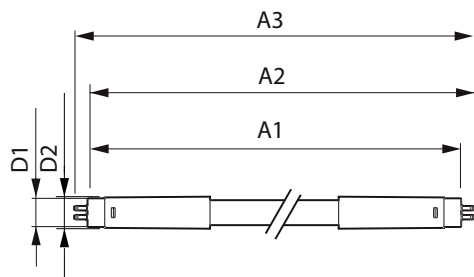
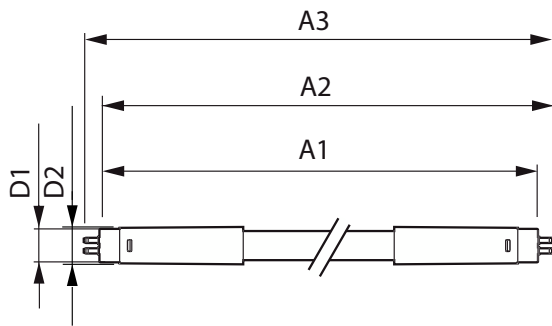
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Versions



LEDtube MAS G5

Dimensional drawing



D1	D2	A1	A2	A3
15.5mm	18.8mm	549mm	556.1mm	563.2mm

Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm HE 16.5W 830 T5	15.5 mm	18.8 mm	1,149 mm	1,156.1 mm	1,163.2 mm
MAS LEDtube HF 1200mm HE 16.5W 840 T5	15.5 mm	18.8 mm	1,149 mm	1,156.1 mm	1,163.2 mm
MAS LEDtube HF 1200mm HE 16.5W 865 T5	15.5 mm	18.8 mm	1,149 mm	1,156.1 mm	1,163.2 mm
MAS LEDtube HF 1200mm HO 26W 830 T5 OE	15.5 mm	19 mm	1,149 mm	1,156 mm	1,163 mm
MAS LEDtube HF 1200mm HO 26W 840 T5 OE	15.5 mm	19 mm	1,149 mm	1,156 mm	1,163 mm
MAS LEDtube HF 1200mm HO 26W 865 T5 OE	15.5 mm	19 mm	1,149 mm	1,156 mm	1,163 mm
MAS LEDtube HF 1500mm HE 20W 830 T5	15.5 mm	18.8 mm	1,449 mm	1,456.1 mm	1,463.2 mm
MAS LEDtube HF 1500mm HE 20W 840 T5	15.5 mm	18.8 mm	1,449 mm	1,456.1 mm	1,463.2 mm
MAS LEDtube HF 1500mm HE 20W 865 T5	15.5 mm	18.8 mm	1,449 mm	1,456.1 mm	1,463.2 mm
MAS LEDtube HF 600mm HE 8W 830 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm

Product	D1	D2	A1	A2	A3
MAS LEDtube HF 600mm HE 8W 840 T5 AP	15.7 mm	19 mm	549 mm	556.1 mm	563.2 mm

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General Information	
Cap-Base	G5
Switching Cycle	50,000
Light Technical	
Beam Angle (Nom)	200 degree(s)
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T5

General Information

Order Code	Full Product Name	Nominal lifetime
929002352002	MAS LEDtube HF 1200mm HO 26W 830 T5 OE	60,000 hour(s)
929002352102	MAS LEDtube HF 1200mm HO 26W 840 T5 OE	60,000 hour(s)
929002352202	MAS LEDtube HF 1200mm HO 26W 865 T5 OE	60,000 hour(s)
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	60,000 hour(s)
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	60,000 hour(s)
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	60,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	60,000 hour(s)
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	60,000 hour(s)
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	60,000 hour(s)
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	60,000 hour(s)
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	50,000 hour(s)

Light Technical

Order Code	Full Product Name	Correlated			
		Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929002352002	MAS LEDtube HF 1200mm HO 26W 830 T5 OE	3000 K	80	830	3,700 lm
929002352102	MAS LEDtube HF 1200mm HO 26W 840 T5 OE	4000 K	80	840	3,900 lm
929002352202	MAS LEDtube HF 1200mm HO 26W 865 T5 OE	6500 K	80	865	3,900 lm
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	3000 K	80	830	1,000 lm
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	3000 K	80	830	2,300 lm
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	4000 K	80	840	2,500 lm

Order Code	Full Product Name	Correlated			
		Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	6500 K	80	865	2,500 lm
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	3000 K	80	830	2,800 lm
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	4000 K	80	840	3,000 lm
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	6500 K	80	865	3,000 lm
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	4000 K	83	840	1,050 lm

Operating and Electrical

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Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929002352002	MAS LEDtube HF 1200mm HO 26W 830 T5 OE	30K to 60K Hz	30K to 60K Hz	26 W	-
929002352102	MAS LEDtube HF 1200mm HO 26W 840 T5 OE	30K to 60K Hz	30K to 60K Hz	26 W	-
929002352202	MAS LEDtube HF 1200mm HO 26W 865 T5 OE	30K to 60K Hz	30K to 60K Hz	26 W	-
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	30K to 100K Hz	30K to 100K Hz	8 W	-
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	30K to 100K Hz	30K to 100K Hz	16.5 W	-
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	30K to 100K Hz	30K to 100K Hz	16.5 W	-

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	30K to 100K Hz	30K to 100K Hz	16.5 W	-
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	30K to 100K Hz	30K to 100K Hz	20 W	-
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	30K to 100K Hz	30K to 100K Hz	20 W	-
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	30K to 100K Hz	30K to 100K Hz	20 W	-
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	35K to 70K Hz	-	8 W	14 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002352002	MAS LEDtube HF 1200mm HO 26W 830 T5 OE	50 °C
929002352102	MAS LEDtube HF 1200mm HO 26W 840 T5 OE	50 °C
929002352202	MAS LEDtube HF 1200mm HO 26W 865 T5 OE	50 °C
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	65 °C
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	65 °C
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	65 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	65 °C
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	65 °C
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	65 °C
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	65 °C
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	40 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
929002352002	MAS LEDtube HF 1200mm HO 26W 830 T5 OE	Yes - Check ballast compatibility
929002352102	MAS LEDtube HF 1200mm HO 26W 840 T5 OE	Yes - Check ballast compatibility
929002352202	MAS LEDtube HF 1200mm HO 26W 865 T5 OE	Yes - Check ballast compatibility

Order Code	Full Product Name	Dimmable
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	Yes - Check ballast compatibility
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	Yes - Check ballast compatibility
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	Yes - Check ballast compatibility

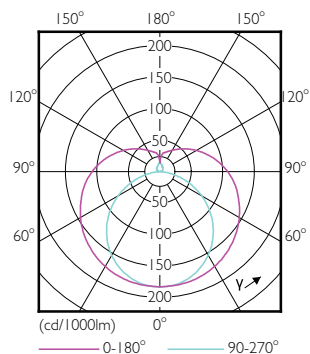
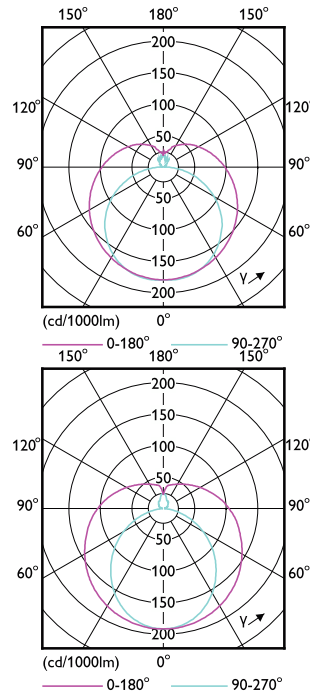
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Order Code	Full Product Name	Dimmable
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	Yes - Check ballast compatibility
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	Yes - Check ballast compatibility
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	Yes - Check ballast compatibility

Order Code	Full Product Name	Dimmable
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	Yes - Check ballast compatibility
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	No

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929002352002	MAS LEDtube HF 1200mm HO 26W 830 T5 OE	-20 °C to 45 °C	26 kWh
929002352102	MAS LEDtube HF 1200mm HO 26W 840 T5 OE	-20 °C to 45 °C	26 kWh
929002352202	MAS LEDtube HF 1200mm HO 26W 865 T5 OE	-20 °C to 45 °C	26 kWh
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	-20 °C to 45 °C	8 kWh
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	-20 °C to 45 °C	17 kWh
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	-20 °C to 45 °C	17 kWh
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	-20 °C to 45 °C	17 kWh
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	-20 °C to 45 °C	20 kWh
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	-20 °C to 45 °C	20 kWh
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	-20 °C to 45 °C	20 kWh
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	-20 to +45 °C	10 kWh



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