



For top performance and sustainability

MASTER LEDtube 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

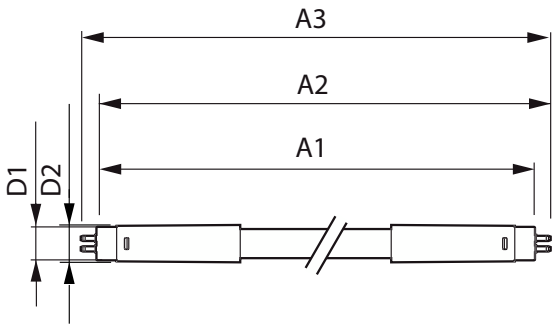
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Versions



LEDtube 1200mm 17W G5

Dimensional drawing



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 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 1500mm UO 36W 830 T5	15.5 mm	19 mm	1,449 mm	1,456 mm	1,463 mm
MAS LEDtube HF 1500mm UO 36W 840 T5	15.5 mm	19 mm	1,449 mm	1,456 mm	1,463 mm
MAS LEDtube HF 1500mm UO 36W 865 T5	15.5 mm	19 mm	1,449 mm	1,456 mm	1,463 mm
MAS LEDtube HF 600mm HE 7W 840 T5	15.7 mm	19 mm	549 mm	556 mm	563 mm
MAS LEDtube HF 600mm HE 7W 865 T5	15.7 mm	19 mm	549 mm	556 mm	563 mm

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General Information	
Cap-Base	G5
Switching Cycle	50,000
Nominal lifetime	60,000 hour(s)
Light Technical	
Beam Angle (Nom)	200 degree(s)
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	30K to 100K Hz
Starting Time (Nom)	0.5 s
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T5

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color Code	Luminous Flux
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	3000 K	830	5,200 lm
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	4000 K	840	5,600 lm
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	6500 K	865	5,600 lm
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	3000 K	830	2,300 lm
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	4000 K	840	2,500 lm
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	6500 K	865	2,500 lm
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	4000 K	840	3,000 lm
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	6500 K	865	3,000 lm
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	4000 K	840	1,050 lm
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	6500 K	865	1,050 lm

Operating and Electrical

Order Code	Full Product Name	Line Frequency	Power Consumption
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	30K to 100K Hz	36 W
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	30K to 100K Hz	36 W
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	30K to 100K Hz	36 W
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	30K to 100K Hz	16.5 W
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	30K to 100K Hz	16.5 W

Order Code	Full Product Name	Line Frequency	Power Consumption
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	30K to 100K Hz	16.5 W
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	30K to 100K Hz	20 W
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	30K to 100K Hz	20 W
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	-	7 W
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	-	7 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	75 °C
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	75 °C
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	75 °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
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	65 °C
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	65 °C
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	50 °C
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	50 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	Yes - Check ballast compatibility

Order Code	Full Product Name	Dimmable
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	Yes - Check ballast compatibility

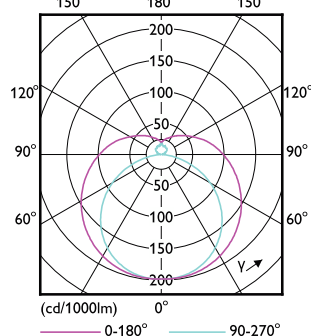
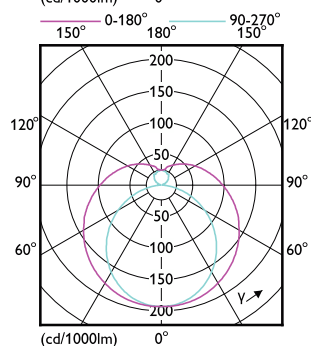
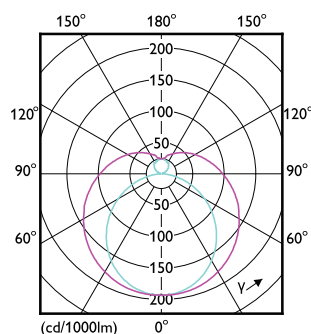
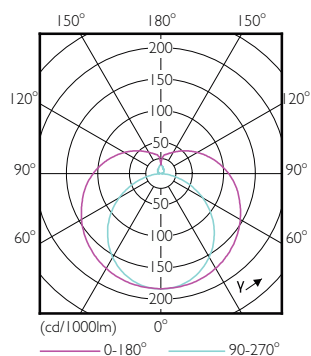
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Order Code	Full Product Name	Dimmable
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	No
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	Yes - Check ballast compatibility
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	Yes - Check ballast compatibility
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	Yes - Check ballast compatibility

Order Code	Full Product Name	Dimmable
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	Yes - Check ballast compatibility
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	Yes - Check ballast compatibility
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	Yes - Check ballast compatibility
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	Yes - Check ballast compatibility

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	-20 °C to 45 °C	36 kWh
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	-20 °C to 45 °C	36 kWh
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	-20 °C to 45 °C	36 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
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
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	-20 to +45 °C	7 kWh
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	-20 to +45 °C	7 kWh



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