



# 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

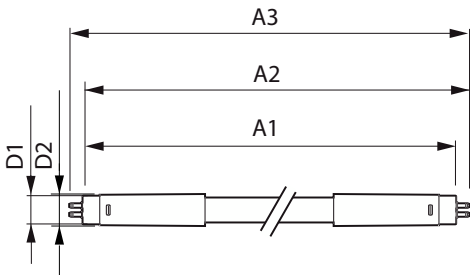
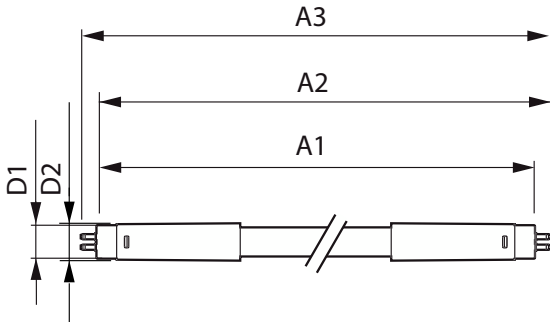
- Retrofit existing T5 lamps with HF ballast
- Compatible with a wide range of ballasts
- > 50% energy savings compared to fluorescent tubes with up to 155lm/W
- Extra-long life up to 60,000 hours
- Ultra output up to 5600lm
- Enable implementation of HACCP, supported by product level NSF certificate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

### Application

- Office
- Schools
- Retail

# MASTER LED tube InstantFit HF T5

## 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 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

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

### 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
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### Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	T5

## General Information

# MASTER LED tube InstantFit HF T5

Order Code	Full Product Name	Nominal lifetime
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	60,000 hour(s)
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	60,000 hour(s)
929003154102	MAS LEDtube HF 1500mm UO 36W 865 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)
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	60,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
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)
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	60,000 hour(s)
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	60,000 hour(s)

## Light Technical

Order Code	Full Product Name	Correlated			
		Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	3000 K	80	830	5,200 lm
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	4000 K	80	840	5,600 lm
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	6500 K	80	865	5,600 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
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	6500 K	80	865	2,500 lm

Order Code	Full Product Name	Correlated			
		Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
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
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	4000 K	80	840	1,050 lm
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	6500 K	80	865	1,050 lm

## Operating and Electrical

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929003153902	MAS LEDtube HF 1500mm UO 36W 830 T5	30K to 100K Hz	30K to 100K Hz	36 W	-
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	30K to 100K Hz	30K to 100K Hz	36 W	-
929003154102	MAS LEDtube HF 1500mm UO 36W 865 T5	30K to 100K Hz	30K to 100K Hz	36 W	-
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 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
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	30K to 100K Hz	30K to 100K Hz	16.5 W	-
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	30K to 100K Hz	30K to 100K Hz	16.5 W	-
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	30K to 100K Hz	30K to 100K Hz	20 W	-

## MASTER LED tube InstantFit HF T5

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
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	35K to 70K Hz	-	8 W	14 W

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929003795202	MAS LEDtube HF 600mm HE 7W 840 T5	30K to 100K Hz	-	7 W	-
929003795302	MAS LEDtube HF 600mm HE 7W 865 T5	30K to 100K Hz	-	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
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	65 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
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
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
929003154002	MAS LEDtube HF 1500mm UO 36W 840 T5	Yes - Check ballast compatibility
929003154102	MAS LEDtube HF 1500mm UO 36W 865 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
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
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	No
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

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
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

# MASTER LED tube InstantFit HF T5

Order Code	Full Product Name	Ambient temperature range	Energy
			Consumption kWh/1000 h
929001399508	MAS LEDtube HF 600mm HE 8W 840 T5 AP	-20 to +45 °C	10 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

