



The new generation of energy saving tube lighting

MASTER LEDtube InstantFit HF

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. The MASTER LEDtube Performance is the ideal solution for customers which have higher light requirements and the want to maximize value over lifetime.(need the longest lifetime). Full energy savings and TCO benefits.

Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%-safe installation process

Features

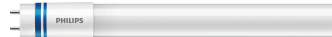
- Only 50% energy consumption compared to fluorescent tubes
- Extra-long life of 50000 hours
- Retrofit to existing T8 lamps on EM ballast installations
- Full safety features and EM Protector safety device
- No mercury

Application

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

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Versions

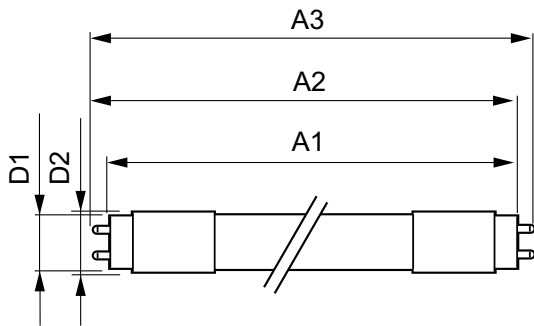


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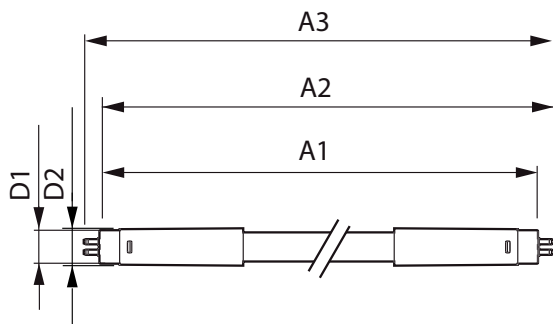
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Dimensional drawing



| Product | D1 | D2 | A1 | A2 | A3 |
|---|---------|-------|-----------|-----------|-----------|
| MASTER LEDtube HF 1500mm UO 24W840 T8 | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF 1200mm UO 16W840 T8 | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF 1500mm UO 24W830 T8 | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF 1200mm HO 14W840 T8 | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF 1200mm UO 16W865 T8 | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF 1200mm UO 16W830 T8 | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF 1500mm HO 20W830 T8 | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF 1500mm UO 24W865 T8 | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF 1500mm HO 20W840 T8 | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF 1500mm HO 20W865 T8 | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 25.7 mm | 28 mm | 1198.0 mm | 1205.0 mm | 1212.0 mm |



| Product | D1 | D2 | A1 | A2 | A3 |
|--|---------|-------|----------|----------|----------|
| MASTER LEDtube HF 600mm HO 8W865 T8 | 25.6 mm | 28 mm | 588.6 mm | 595.7 mm | 602.8 mm |
| MASTER LEDtube HF 600mm HO 8W840 T8 | 25.6 mm | 28 mm | 588.6 mm | 595.7 mm | 602.8 mm |
| MASTER LEDtube HF 600mm HO 8W830 T8 | 25.6 mm | 28 mm | 588.6 mm | 595.7 mm | 602.8 mm |

MASTER LEDtube InstantFit HF

Operating and Electrical

Starting Time (Nom) 0.5 s

General Information

Cap-Base G13

Switching Cycle 50000X

Light Technical

Beam Angle (Nom) 160 °

Color Rendering Index (Nom) 83

Llmf At End Of Nominal Lifetime (Nom) 70 %

Rated Beam Angle 160 °

Temperature

T-Ambient (Min) -20 °C

T-Storage (Max) 65 °C

T-Storage (Min) -40 °C

Approval and Application

| Order Code | Full Product Name | Energy Consumption kWh/1000 h | Energy Efficiency Label (EEL) |
|------------|---|-------------------------------|-------------------------------|
| 56616900 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 21 kWh | B |
| 68748200 | MASTER LEDtube HF 1200mm HO 14W840 T8 | 17 kWh | A++ |
| 68754300 | MASTER LEDtube HF 1500mm HO 20W840 T8 | 24 kWh | A++ |
| 68756700 | MASTER LEDtube HF 1500mm HO 20W865 T8 | 24 kWh | A++ |
| 68758100 | MASTER LEDtube HF 1500mm HO 20W830 T8 | 24 kWh | A+ |
| 68796300 | MASTER LEDtube HF 1200mm UO 16W840 T8 | 20 kWh | A++ |
| 68798700 | MASTER LEDtube HF 1200mm UO 16W865 T8 | 20 kWh | A++ |
| 68800700 | MASTER LEDtube HF 1200mm UO 16W830 T8 | 20 kWh | A+ |
| 68802100 | MASTER LEDtube HF 1500mm UO 24W840 T8 | 29 kWh | A++ |
| 68804500 | MASTER LEDtube HF 1500mm UO 24W865 T8 | 29 kWh | A++ |
| 68806900 | MASTER LEDtube HF 1500mm UO 24W830 T8 | 29 kWh | A++ |
| 74353900 | MASTER LEDtube HF 600mm HO 8W830 T8 | 10 kWh | A+ |
| 74355300 | MASTER LEDtube HF 600mm HO 8W840 T8 | 10 kWh | A+ |
| 74367600 | MASTER LEDtube HF 600mm HO 8W865 T8 | 10 kWh | A+ |

Controls and Dimming

| Order Code | Full Product Name | Dimmable | Order Code | Full Product Name | Dimmable |
|------------|---|----------|------------|---------------------------------------|----------|
| 56616900 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | No | 68800700 | MASTER LEDtube HF 1200mm UO 16W830 T8 | Yes |
| 68748200 | MASTER LEDtube HF 1200mm HO 14W840 T8 | Yes | 68802100 | MASTER LEDtube HF 1500mm UO 24W840 T8 | Yes |
| 68754300 | MASTER LEDtube HF 1500mm HO 20W840 T8 | Yes | 68804500 | MASTER LEDtube HF 1500mm UO 24W865 T8 | Yes |
| 68756700 | MASTER LEDtube HF 1500mm HO 20W865 T8 | Yes | 68806900 | MASTER LEDtube HF 1500mm UO 24W830 T8 | Yes |
| 68758100 | MASTER LEDtube HF 1500mm HO 20W830 T8 | Yes | 74353900 | MASTER LEDtube HF 600mm HO 8W830 T8 | No |
| 68796300 | MASTER LEDtube HF 1200mm UO 16W840 T8 | Yes | 74355300 | MASTER LEDtube HF 600mm HO 8W840 T8 | No |
| 68798700 | MASTER LEDtube HF 1200mm UO 16W865 T8 | Yes | 74367600 | MASTER LEDtube HF 600mm HO 8W865 T8 | No |

Operating and Electrical

| Order Code | Full Product Name | Input Frequency | Voltage (Nom) | Power (Rated) (Nom) | Order Code | Full Product Name | Input Frequency | Voltage (Nom) | Power (Rated) (Nom) |
|------------|---|-----------------|---------------|---------------------|------------|---------------------------------------|-----------------|---------------|---------------------|
| 56616900 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 25000-75000 Hz | 50-100 V | 16.5 W | 68796300 | MASTER LEDtube HF 1200mm UO 16W840 T8 | 20000-75000 Hz | 30-80 V | 16 W |
| 68748200 | MASTER LEDtube HF 1200mm HO 14W840 T8 | 20000-75000 Hz | 30-80 V | 14 W | 68798700 | MASTER LEDtube HF 1200mm UO 16W865 T8 | 20000-75000 Hz | 30-80 V | 16 W |
| 68754300 | MASTER LEDtube HF 1500mm HO 20W840 T8 | 20000-75000 Hz | 30-80 V | 20 W | 68800700 | MASTER LEDtube HF 1200mm UO 16W830 T8 | 20000-75000 Hz | 30-80 V | 16 W |
| 68756700 | MASTER LEDtube HF 1500mm HO 20W865 T8 | 20000-75000 Hz | 30-80 V | 20 W | 68802100 | MASTER LEDtube HF 1500mm UO 24W840 T8 | 20000-75000 Hz | 30-80 V | 24 W |
| 68758100 | MASTER LEDtube HF 1500mm HO 20W830 T8 | 20000-75000 Hz | 30-80 V | 20 W | 68804500 | MASTER LEDtube HF 1500mm UO 24W865 T8 | 20000-75000 Hz | 30-80 V | 24 W |
| | | | | | 68806900 | MASTER LEDtube HF 1500mm UO 24W830 T8 | 20000-75000 Hz | 30-80 V | 24 W |

MASTER LEDtube InstantFit HF

| Order Code | Full Product Name | Input Frequency | Voltage (Nom) | Power (Rated) (Nom) |
|------------|--|-----------------|---------------|---------------------|
| 74353900 | MASTER LEDtube HF 600mm HO 8W830 T8 | 20000-80000 Hz | 20-50 V | 8 W |
| 74355300 | MASTER LEDtube HF 600mm HO 8W840 T8 | 20000-80000 Hz | 20-50 V | 8 W |

| Order Code | Full Product Name | Input Frequency | Voltage (Nom) | Power (Rated) (Nom) |
|------------|--|-----------------|---------------|---------------------|
| 74367600 | MASTER LEDtube HF 600mm HO 8W865 T8 | 20000-80000 Hz | 20-50 V | 8 W |

General Information

| Order Code | Full Product Name | Nominal Lifetime (Nom) | Rated Lifetime (Hours) |
|------------|--|------------------------|------------------------|
| 56616900 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 50000 h | 50000 h |
| 68748200 | MASTER LEDtube HF 1200mm HO 14W840 T8 | 60000 h | 60000 h |
| 68754300 | MASTER LEDtube HF 1500mm HO 20W840 T8 | 60000 h | 60000 h |
| 68756700 | MASTER LEDtube HF 1500mm HO 20W865 T8 | 60000 h | 60000 h |
| 68758100 | MASTER LEDtube HF 1500mm HO 20W830 T8 | 60000 h | 60000 h |
| 68796300 | MASTER LEDtube HF 1200mm UO 16W840 T8 | 60000 h | 60000 h |
| 68798700 | MASTER LEDtube HF 1200mm UO 16W865 T8 | 60000 h | 60000 h |

| Order Code | Full Product Name | Nominal Lifetime (Nom) | Rated Lifetime (Hours) |
|------------|--|------------------------|------------------------|
| 68800700 | MASTER LEDtube HF 1200mm UO 16W830 T8 | 60000 h | 60000 h |
| 68802100 | MASTER LEDtube HF 1500mm UO 24W840 T8 | 60000 h | 60000 h |
| 68804500 | MASTER LEDtube HF 1500mm UO 24W865 T8 | 60000 h | 60000 h |
| 68806900 | MASTER LEDtube HF 1500mm UO 24W830 T8 | 60000 h | 60000 h |
| 74353900 | MASTER LEDtube HF 600mm HO 8W830 T8 | 60000 h | 60000 h |
| 74355300 | MASTER LEDtube HF 600mm HO 8W840 T8 | 60000 h | 60000 h |
| 74367600 | MASTER LEDtube HF 600mm HO 8W865 T8 | 60000 h | 60000 h |

Light Technical

| Order Code | Full Product Name | Color Code | Correlated | | Luminous Flux (Rated) (Nom) |
|------------|--|------------|-------------------------|---------------------|-----------------------------|
| | | | Color Temperature (Nom) | Luminous Flux (Nom) | |
| 56616900 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 833 | 3300 K | 960 lm | 960 lm |
| 68748200 | MASTER LEDtube HF 1200mm HO 14W840 T8 | 840 | 4000 K | 2100 lm | 2100 lm |
| 68754300 | MASTER LEDtube HF 1500mm HO 20W840 T8 | 840 | 4000 K | 3100 lm | 3100 lm |
| 68756700 | MASTER LEDtube HF 1500mm HO 20W865 T8 | 865 | 6500 K | 3100 lm | 3100 lm |
| 68758100 | MASTER LEDtube HF 1500mm HO 20W830 T8 | 830 | 3000 K | 2900 lm | 2900 lm |
| 68796300 | MASTER LEDtube HF 1200mm UO 16W840 T8 | 840 | 4000 K | 2500 lm | 2500 lm |
| 68798700 | MASTER LEDtube HF 1200mm UO 16W865 T8 | 865 | 6500 K | 2500 lm | 2500 lm |

| Order Code | Full Product Name | Color Code | Correlated | | Luminous Flux (Rated) (Nom) |
|------------|--|------------|-------------------------|---------------------|-----------------------------|
| | | | Color Temperature (Nom) | Luminous Flux (Nom) | |
| 68800700 | MASTER LEDtube HF 1200mm UO 16W830 T8 | 830 | 3000 K | 2350 lm | 2350 lm |
| 68802100 | MASTER LEDtube HF 1500mm UO 24W840 T8 | 840 | 4000 K | 3700 lm | 3700 lm |
| 68804500 | MASTER LEDtube HF 1500mm UO 24W865 T8 | 865 | 6500 K | 3700 lm | 3700 lm |
| 68806900 | MASTER LEDtube HF 1500mm UO 24W830 T8 | 830 | 3000 K | 3500 lm | 3500 lm |
| 74353900 | MASTER LEDtube HF 600mm HO 8W830 T8 | 830 | 3000 K | 1000 lm | 1000 lm |
| 74355300 | MASTER LEDtube HF 600mm HO 8W840 T8 | 840 | 4000 K | 1050 lm | 1050 lm |

MASTER LEDtube InstantFit HF

| Order Code | Full Product Name | Color Code | Correlated Color | | Luminous Flux (Rated) |
|------------|--|------------|-------------------|------------|-----------------------|
| | | | Temperature (Nom) | Flux (Nom) | |
| 74367600 | MASTER LEDtube HF 600mm HO 8W865 T8 | 865 | 6500 K | 1050 lm | 1050 lm |

Temperature

| Order Code | Full Product Name | T-Ambient (Max) | T-Case Maximum (Nom) |
|------------|--|-----------------|----------------------|
| 56616900 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 35 °C | 45 °C |
| 68748200 | MASTER LEDtube HF 1200mm HO 14W840 T8 | 45 °C | 55 °C |
| 68754300 | MASTER LEDtube HF 1500mm HO 20W840 T8 | 45 °C | 55 °C |
| 68756700 | MASTER LEDtube HF 1500mm HO 20W865 T8 | 45 °C | 55 °C |
| 68758100 | MASTER LEDtube HF 1500mm HO 20W830 T8 | 45 °C | 55 °C |
| 68796300 | MASTER LEDtube HF 1200mm UO 16W840 T8 | 45 °C | 55 °C |
| 68798700 | MASTER LEDtube HF 1200mm UO 16W865 T8 | 45 °C | 55 °C |
| 68800700 | MASTER LEDtube HF 1200mm UO 16W830 T8 | 45 °C | 55 °C |
| 68802100 | MASTER LEDtube HF 1500mm UO 24W840 T8 | 45 °C | 55 °C |
| 68804500 | MASTER LEDtube HF 1500mm UO 24W865 T8 | 45 °C | 55 °C |
| 68806900 | MASTER LEDtube HF 1500mm UO 24W830 T8 | 45 °C | 55 °C |
| 74353900 | MASTER LEDtube HF 600mm HO 8W830 T8 | 45 °C | 60 °C |
| 74355300 | MASTER LEDtube HF 600mm HO 8W840 T8 | 45 °C | 60 °C |
| 74367600 | MASTER LEDtube HF 600mm HO 8W865 T8 | 45 °C | 60 °C |

