



# The new generation of energy saving T8 tube lighting

## MASTER LEDtube InstantFit HF T8

Philips MASTER LEDtube InstantFit T8 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. Philips MASTER LEDtube InstantFit T8 is the ideal solution for customers who have higher light requirements and want to maximize value over lifetime. Full energy savings & longer lifetime result in attractive payback times 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, with a 100%- safe installation process

### Features

- HF compatibility: no wires to replace, no hassle changing drivers; our InstantFit solution works with High Frequency electronic ballasts, making it easy and safe for all installation methods
- Electronic Pin safety: with Philips products you can safely touch the other end-cap when installing the tube. The integrated driver is also safely isolated from touchable parts. Philips LED tubes adhere to all UL and IEC pin safety requirements
- Rotating end-caps: in many applications the pin fitting needs to be rotating. This can be a problem as LED tubes only provide directional light. Our T8 MASTER LEDtubes have rotating end-caps to allow you to rotate the tube by up to 90 degrees

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## Application

- The ideal solution for very demanding applications with the highest lumen output requirements while saving on energy bills: office, school, retail & industry, healthcare applications

## Warnings and Safety

- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

## Versions



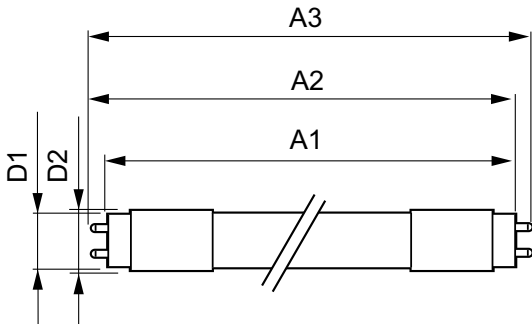
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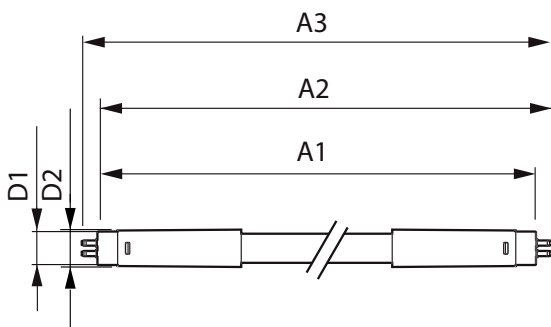
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# MASTER LEDtube InstantFit HF T8

## Dimensional drawing



| Product   | D1      | D2    | A1        | A2        | A3        |
|---|---------|-------|-----------|-----------|-----------|
| MASTER LEDtube HF<br>1200mm 16.5W833 T8<br>FOOD | 25.7 mm | 28 mm | 1198.0 mm | 1205.0 mm | 1212.0 mm |
| MASTER LEDtube HF<br>1200mm HO 14W865 T8        | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF<br>1500mm HO 20W840 T8        | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF<br>1200mm UO 16W840 T8        | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF<br>1500mm HO 20W865 T8        | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF<br>1200mm UO 16W865 T8        | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF<br>1200mm HO 14W840 T8        | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF<br>1500mm UO 24W830 T8        | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF<br>1500mm UO 24W865 T8        | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF<br>1500mm HO 20W830 T8        | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF<br>1200mm UO 16W830 T8        | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF<br>1500mm UO 24W840 T8        | 25.6 mm | 28 mm | 1498.7 mm | 1505.8 mm | 1512.9 mm |
| MASTER LEDtube HF<br>1200mm HO 14W830 T8        | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |
| MASTER LEDtube HF<br>1200mm 14W 833 T8<br>FOOD  | 25.6 mm | 28 mm | 1198.1 mm | 1205.2 mm | 1212.3 mm |



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

# MASTER LEDtube InstantFit HF T8

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Controls and dimming</b>           |                    |
| Dimmable                              | No                 |
| <b>Operating and electrical</b>       |                    |
| Starting Time (Nom)                   | 0.5 s              |
| <b>General information</b>            |                    |
| Switching Cycle                       | 50000X             |
| <b>Light technical</b>                |                    |
| Beam Angle (Nom)                      | 160 °              |
| Llmf At End Of Nominal Lifetime (Nom) | 70 %               |
| <b>Mechanical and housing</b>         |                    |
| Bulb Shape                            | Tube, double-ended |
| <b>Temperature</b>                    |                    |
| 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 |
|--------------|---|-------------------------------|
| 929001226302 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 21 kWh                        |
| 929001284102 | MASTER LEDtube HF 1200mm HO 14W840 T8     | 14 kWh                        |
| 929001284202 | MASTER LEDtube HF 1200mm HO 14W865 T8     | 14 kWh                        |
| 929001284302 | MASTER LEDtube HF 1200mm HO 14W830 T8     | 14 kWh                        |
| 929001284402 | MASTER LEDtube HF 1500mm HO 20W840 T8     | 20 kWh                        |
| 929001284502 | MASTER LEDtube HF 1500mm HO 20W865 T8     | 20 kWh                        |
| 929001284602 | MASTER LEDtube HF 1500mm HO 20W830 T8     | 20 kWh                        |
| 929001300002 | MASTER LEDtube HF 1200mm UO 16W840 T8     | 16 kWh                        |
| 929001300102 | MASTER LEDtube HF 1200mm UO 16W865 T8     | 16 kWh                        |
| 929001300202 | MASTER LEDtube HF 1200mm UO 16W830 T8     | 16 kWh                        |
| 929001300302 | MASTER LEDtube HF 1500mm UO 24W840 T8     | 24 kWh                        |
| 929001300402 | MASTER LEDtube HF 1500mm UO 24W865 T8     | 24 kWh                        |
| 929001300502 | MASTER LEDtube HF 1500mm UO 24W830 T8     | 24 kWh                        |
| 929002479402 | MASTER LEDtube HF 1200mm 14W 833 T8 FOOD  | 14 kWh                        |
| 929001393102 | MASTER LEDtube HF 600mm HO 8W830 T8       | 8 kWh                         |
| 929001393202 | MASTER LEDtube HF 600mm HO 8W840 T8       | 8 kWh                         |
| 929001393302 | MASTER LEDtube HF 600mm HO 8W865 T8       | 8 kWh                         |

## Operating and electrical

| Order Code   | Full Product Name                         | Input Frequency | Voltage (Nom) | Power (Nom) |
|--------------|---|-----------------|---------------|-------------|
| 929001226302 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | 25000-75000 Hz  | 50-100 V      | 16.5 W      |
| 929001284102 | MASTER LEDtube HF 1200mm HO 14W840 T8     | 20000-75000 Hz  | 30-80 V       | 14 W        |
| 929001284202 | MASTER LEDtube HF 1200mm HO 14W865 T8     | 20000-75000 Hz  | 30-80 V       | 14 W        |
| 929001284302 | MASTER LEDtube HF 1200mm HO 14W830 T8     | 20000-75000 Hz  | 30-80 V       | 14 W        |
| 929001284402 | MASTER LEDtube HF 1500mm HO 20W840 T8     | 20000-75000 Hz  | 30-80 V       | 20 W        |
| 929001284502 | MASTER LEDtube HF 1500mm HO 20W865 T8     | 20000-75000 Hz  | 30-80 V       | 20 W        |
| 929001284602 | MASTER LEDtube HF 1500mm HO 20W830 T8     | 20000-75000 Hz  | 30-80 V       | 20 W        |
| 929001300002 | MASTER LEDtube HF 1200mm UO 16W840 T8     | 20000-75000 Hz  | 30-80 V       | 16 W        |
| 929001300102 | MASTER LEDtube HF 1200mm UO 16W865 T8     | 20000-75000 Hz  | 30-80 V       | 16 W        |

| Order Code   | Full Product Name                        | Input Frequency | Voltage (Nom) | Power (Nom) |
|--------------|--|-----------------|---------------|-------------|
| 929001300202 | MASTER LEDtube HF 1200mm UO 16W830 T8    | 20000-75000 Hz  | 30-80 V       | 16 W        |
| 929001300302 | MASTER LEDtube HF 1500mm UO 24W840 T8    | 20000-75000 Hz  | 30-80 V       | 24 W        |
| 929001300402 | MASTER LEDtube HF 1500mm UO 24W865 T8    | 20000-75000 Hz  | 30-80 V       | 24 W        |
| 929001300502 | MASTER LEDtube HF 1500mm UO 24W830 T8    | 20000-75000 Hz  | 30-80 V       | 24 W        |
| 929002479402 | MASTER LEDtube HF 1200mm 14W 833 T8 FOOD | 20000-75000 Hz  | 30-80 V       | 14 W        |
| 929001393102 | MASTER LEDtube HF 600mm HO 8W830 T8      | 20000-80000 Hz  | 20-50 V       | 8 W         |
| 929001393202 | MASTER LEDtube HF 600mm HO 8W840 T8      | 20000-80000 Hz  | 20-50 V       | 8 W         |
| 929001393302 | MASTER LEDtube HF 600mm HO 8W865 T8      | 20000-80000 Hz  | 20-50 V       | 8 W         |

## General information

# MASTER LEDtube InstantFit HF T8

| Order Code   | Full Product Name                            | Cap-Base           | Nominal Lifetime (Nom) |
|--------------|--|--------------------|------------------------|
| 929001226302 | MASTER LEDtube HF 1200mm<br>16.5W833 T8 FOOD | G13 ROT (Rotating) | 50000 h                |
| 929001284102 | MASTER LEDtube HF 1200mm<br>HO 14W840 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001284202 | MASTER LEDtube HF 1200mm<br>HO 14W865 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001284302 | MASTER LEDtube HF 1200mm<br>HO 14W830 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001284402 | MASTER LEDtube HF 1500mm<br>HO 20W840 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001284502 | MASTER LEDtube HF 1500mm<br>HO 20W865 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001284602 | MASTER LEDtube HF 1500mm<br>HO 20W830 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001300002 | MASTER LEDtube HF 1200mm<br>UO 16W840 T8     | G13 ROT (Rotating) | 60000 h                |
| 929001300102 | MASTER LEDtube HF 1200mm<br>UO 16W865 T8     | G13 ROT (Rotating) | 60000 h                |

| Order Code   | Full Product Name                           | Cap-Base           | Nominal Lifetime (Nom) |
|--------------|---|--------------------|------------------------|
| 929001300202 | MASTER LEDtube HF 1200mm<br>UO 16W830 T8    | G13 ROT (Rotating) | 60000 h                |
| 929001300302 | MASTER LEDtube HF 1500mm<br>UO 24W840 T8    | G13 ROT (Rotating) | 60000 h                |
| 929001300402 | MASTER LEDtube HF 1500mm<br>UO 24W865 T8    | G13 ROT (Rotating) | 60000 h                |
| 929001300502 | MASTER LEDtube HF 1500mm<br>UO 24W830 T8    | G13 ROT (Rotating) | 60000 h                |
| 929002479402 | MASTER LEDtube HF 1200mm<br>14W 833 T8 FOOD | G13                | 60000 h                |
| 929001393102 | MASTER LEDtube HF 600mm<br>HO 8W830 T8      | G13 ROT (Rotating) | 60000 h                |
| 929001393202 | MASTER LEDtube HF 600mm<br>HO 8W840 T8      | G13 ROT (Rotating) | 60000 h                |
| 929001393302 | MASTER LEDtube HF 600mm<br>HO 8W865 T8      | G13 ROT (Rotating) | 60000 h                |

## Light technical

| Order Code   | Full Product Name                               | Color Code | Correlated Color  | Color Rendering | Luminous Flux (Nom) |
|--------------|---|------------|-------------------|-----------------|---------------------|
|              |   |            | Temperature (Nom) | Index (Nom)     |                     |
| 929001226302 | MASTER LEDtube HF 1200mm<br>16.5W833 T8<br>FOOD | 833        | 3300 K            | 83              | 960 lm              |
| 929001284102 | MASTER LEDtube HF 1200mm HO<br>14W840 T8        | 840        | 4000 K            | 83              | 2100 lm             |
| 929001284202 | MASTER LEDtube HF 1200mm HO<br>14W865 T8        | 865        | 6500 K            | 83              | 2100 lm             |
| 929001284302 | MASTER LEDtube HF 1200mm HO<br>14W830 T8        | 830        | 3000 K            | 83              | 2000 lm             |
| 929001284402 | MASTER LEDtube HF 1500mm HO<br>20W840 T8        | 840        | 4000 K            | 83              | 3100 lm             |
| 929001284502 | MASTER LEDtube HF 1500mm HO<br>20W865 T8        | 865        | 6500 K            | 83              | 3100 lm             |
| 929001284602 | MASTER LEDtube HF 1500mm HO<br>20W830 T8        | 830        | 3000 K            | 83              | 2900 lm             |
| 929001300002 | MASTER LEDtube HF 1200mm UO<br>16W840 T8        | 840        | 4000 K            | 83              | 2500 lm             |
| 929001300102 | MASTER LEDtube HF 1200mm UO<br>16W865 T8        | 865        | 6500 K            | 83              | 2500 lm             |

| Order Code   | Full Product Name                           | Color Code | Correlated Color  | Color Rendering | Luminous Flux (Nom) |
|--------------|---|------------|-------------------|-----------------|---------------------|
|              |   |            | Temperature (Nom) | Index (Nom)     |                     |
| 929001300202 | MASTER LEDtube HF 1200mm UO<br>16W830 T8    | 830        | 3000 K            | 83              | 2350 lm             |
| 929001300302 | MASTER LEDtube HF 1500mm UO<br>24W840 T8    | 840        | 4000 K            | 83              | 3700 lm             |
| 929001300402 | MASTER LEDtube HF 1500mm UO<br>24W865 T8    | 865        | 6500 K            | 83              | 3700 lm             |
| 929001300502 | MASTER LEDtube HF 1500mm UO<br>24W830 T8    | 830        | 3000 K            | 83              | 3500 lm             |
| 929002479402 | MASTER LEDtube HF 1200mm 14W<br>833 T8 FOOD | 833        | 3300 K            | 80              | 1000 lm             |
| 929001393102 | MASTER LEDtube HF 600mm HO<br>8W830 T8      | 830        | 3000 K            | 83              | 1000 lm             |
| 929001393202 | MASTER LEDtube HF 600mm HO<br>8W840 T8      | 840        | 4000 K            | 83              | 1050 lm             |
| 929001393302 | MASTER LEDtube HF 600mm HO<br>8W865 T8      | 865        | 6500 K            | 83              | 1050 lm             |

# MASTER LEDtube InstantFit HF T8

## Mechanical and housing

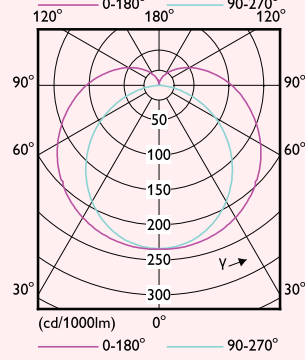
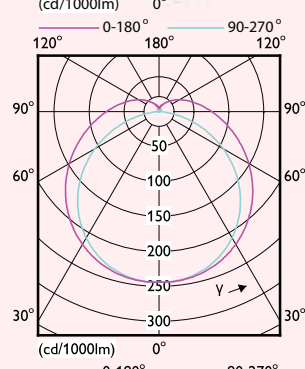
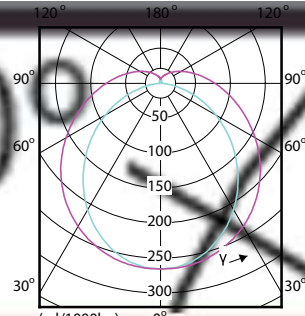
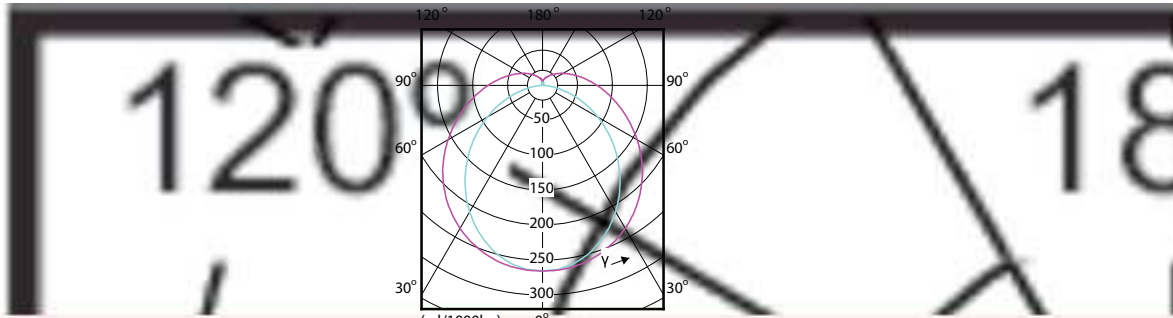
| Order Code   | Full Product Name                         | Bulb Finish |
|--------------|---|-------------|
| 929001226302 | MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD | -           |
| 929001284102 | MASTER LEDtube HF 1200mm HO 14W840 T8     | -           |
| 929001284202 | MASTER LEDtube HF 1200mm HO 14W865 T8     | -           |
| 929001284302 | MASTER LEDtube HF 1200mm HO 14W830 T8     | -           |
| 929001284402 | MASTER LEDtube HF 1500mm HO 20W840 T8     | -           |
| 929001284502 | MASTER LEDtube HF 1500mm HO 20W865 T8     | -           |
| 929001284602 | MASTER LEDtube HF 1500mm HO 20W830 T8     | -           |
| 929001300002 | MASTER LEDtube HF 1200mm UO 16W840 T8     | -           |
| 929001300102 | MASTER LEDtube HF 1200mm UO 16W865 T8     | -           |

| Order Code   | Full Product Name                        | Bulb Finish |
|--------------|--|-------------|
| 929001300202 | MASTER LEDtube HF 1200mm UO 16W830 T8    | -           |
| 929001300302 | MASTER LEDtube HF 1500mm UO 24W840 T8    | -           |
| 929001300402 | MASTER LEDtube HF 1500mm UO 24W865 T8    | -           |
| 929001300502 | MASTER LEDtube HF 1500mm UO 24W830 T8    | -           |
| 929002479402 | MASTER LEDtube HF 1200mm 14W 833 T8 FOOD | Frosted     |
| 929001393102 | MASTER LEDtube HF 600mm HO 8W830 T8      | -           |
| 929001393202 | MASTER LEDtube HF 600mm HO 8W840 T8      | -           |
| 929001393302 | MASTER LEDtube HF 600mm HO 8W865 T8      | -           |

## Temperature

| Order Code   | Full Product Name                            | T-Ambient<br>(Max) | T-Case<br>Maximum (Nom) |
|--------------|--|--------------------|-------------------------|
| 929001226302 | MASTER LEDtube HF 1200mm<br>16.5W833 T8 FOOD | 35 °C              | 45 °C                   |
| 929001284102 | MASTER LEDtube HF 1200mm<br>HO 14W840 T8     | 45 °C              | 55 °C                   |
| 929001284202 | MASTER LEDtube HF 1200mm<br>HO 14W865 T8     | 45 °C              | 55 °C                   |
| 929001284302 | MASTER LEDtube HF 1200mm<br>HO 14W830 T8     | 45 °C              | 55 °C                   |
| 929001284402 | MASTER LEDtube HF 1500mm<br>HO 20W840 T8     | 45 °C              | 55 °C                   |
| 929001284502 | MASTER LEDtube HF 1500mm<br>HO 20W865 T8     | 45 °C              | 55 °C                   |
| 929001284602 | MASTER LEDtube HF 1500mm<br>HO 20W830 T8     | 45 °C              | 55 °C                   |
| 929001300002 | MASTER LEDtube HF 1200mm UO<br>16W840 T8     | 45 °C              | 55 °C                   |
| 929001300102 | MASTER LEDtube HF 1200mm UO<br>16W865 T8     | 45 °C              | 55 °C                   |
| 929001300202 | MASTER LEDtube HF 1200mm UO<br>16W830 T8     | 45 °C              | 55 °C                   |
| 929001300302 | MASTER LEDtube HF 1500mm UO<br>24W840 T8     | 45 °C              | 55 °C                   |
| 929001300402 | MASTER LEDtube HF 1500mm UO<br>24W865 T8     | 45 °C              | 55 °C                   |
| 929001300502 | MASTER LEDtube HF 1500mm UO<br>24W830 T8     | 45 °C              | 55 °C                   |
| 929002479402 | MASTER LEDtube HF 1200mm<br>14W 833 T8 FOOD  | 45 °C              | 55 °C                   |
| 929001393102 | MASTER LEDtube HF 600mm HO<br>8W830 T8       | 45 °C              | 60 °C                   |
| 929001393202 | MASTER LEDtube HF 600mm HO<br>8W840 T8       | 45 °C              | 60 °C                   |
| 929001393302 | MASTER LEDtube HF 600mm HO<br>8W865 T8       | 45 °C              | 60 °C                   |

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## MASTER LEDtube InstantFit HF T8

