



For top performance and sustainability

MASTER LEDtube T8 UltraEfficient

With energy prices rising and the EU's Green Deal² continuing to fund energy efficient building renovations, many are looking into make their company's lighting more sustainable. The new Philips MASTER LEDtube Ultra Efficient T8 is a true breakthrough on the way to more sustainable lighting. It replaces your current fluorescent tube or LED tube directly and offers immediately great energy cost reduction as well as a much longer lifetime!

Benefits

- Absolute performance in energy saving: up to 44% compared with standard LED tube
- Reliable performance of up to 100,000 hours
- Energy cost and CO₂ savings from the start

Features

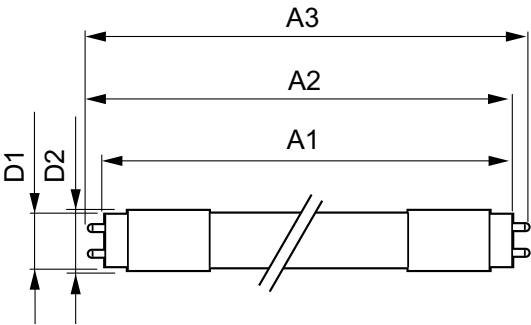
- Ultra efficiency achieves an incredible class A/B energy efficiency rating
- Up to 100,000 hours lifetime
- Rotatable end-cap that gives light where needed
- Shatterproof, passing drop test horizontally from a height of 4m on to a flat concrete according to IEC 61549
- Enable easy implementation of HACCP without need for additional guard, supported by product level NSF certificate

Application

- Industry & warehouse
- Office, education & retail

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Dimensional drawing



| Product | D1 | D2 | A1 | A2 | A3 |
|---|---------|-------|------------|------------|------------|
| MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 13.5W 840 T8 | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1200mm UE 13.5W 865 T8 | 25.8 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| MAS LEDtube 1500mm UE 17.6W 865 T8 EELA | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |
| MAS LEDtube 1500mm UE 20W 840 T8 | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |
| MAS LEDtube 1500mm UE 20W 865 T8 | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |

| General Information | |
|---------------------------------------|---------------|
| Cap-Base | G13 ROT |
| Switching Cycle | 200,000 |
| Light Technical | |
| Beam Angle (Nom) | 160 degree(s) |
| Color rendering index (CRI) | 80 |
| LLMF At End Of Nominal Lifetime (Nom) | 70 % |
| Operating and Electrical | |
| Input Frequency | 50 to 60 Hz |
| Controls and Dimming | |
| Dimmable | No |
| Mechanical and Housing | |
| Bulb Finish | Frosted |
| Bulb Shape | T8 |

| Order Code | Full Product Name | Nominal lifetime |
|--------------|---|------------------|
| 929003067002 | MAS LEDtube 1200mm UE 13.5W 840 T8 | 75,000 hour(s) |
| 929003067102 | MAS LEDtube 1200mm UE 13.5W 865 T8 | 75,000 hour(s) |
| 929003067202 | MAS LEDtube 1500mm UE 20W 840 T8 | 75,000 hour(s) |
| 929003067302 | MAS LEDtube 1500mm UE 20W 865 T8 | 75,000 hour(s) |
| 929003482202 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 100,000 hour(s) |
| 929003482208 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 100,000 hour(s) |
| 929003731808 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 100,000 hour(s) |
| 929003731902 | MAS LEDtube 1500mm UE 17.6W 865 T8 EELA | 100,000 hour(s) |
| 929004243608 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 100,000 hour(s) |
| 929004243708 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 100,000 hour(s) |

Light Technical

| Order Code | Full Product Name | Correlated Color | | |
|--------------|------------------------------------|-------------------|------------|---------------|
| | | Temperature (Nom) | Color Code | Luminous Flux |
| 929003067002 | MAS LEDtube 1200mm UE 13.5W 840 T8 | 4000 K | 840 | 2,500 lm |

| Order Code | Full Product Name | Correlated Color | | |
|--------------|------------------------------------|-------------------|------------|---------------|
| | | Temperature (Nom) | Color Code | Luminous Flux |
| 929003067102 | MAS LEDtube 1200mm UE 13.5W 865 T8 | 6500 K | 865 | 2,500 lm |

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| Order Code | Full Product Name | Correlated Color | | |
|--------------|---|-------------------|------------|---------------|
| | | Temperature (Nom) | Color Code | Luminous Flux |
| 929003067202 | MAS LEDtube 1500mm UE 20W 840 T8 | 4000 K | 840 | 3,700 lm |
| 929003067302 | MAS LEDtube 1500mm UE 20W 865 T8 | 6500 K | 865 | 3,700 lm |
| 929003482202 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 4000 K | 840 | 2,500 lm |
| 929003482208 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 4000 K | 840 | 2,500 lm |

| Order Code | Full Product Name | Correlated Color | | |
|--------------|---|-------------------|------------|---------------|
| | | Temperature (Nom) | Color Code | Luminous Flux |
| 929003731808 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 6500 K | 865 | 2,500 lm |
| 929003731902 | MAS LEDtube 1500mm UE 17.6W 865 T8 EELA | 6500 K | 865 | 3,700 lm |
| 929004243608 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 4000 K | 840 | 2,500 lm |
| 929004243708 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 6500 K | 865 | 2,500 lm |

Operating and Electrical

| Order Code | Full Product Name | Line Frequency | Power Consumption | Starting | |
|--------------|---|----------------|-------------------|------------|--------------------|
| | | | | Time (Nom) | Wattage Equivalent |
| 929003067002 | MAS LEDtube 1200mm UE 13.5W 840 T8 | 50 to 60 Hz | 13.5 W | 0.5 s | - |
| 929003067102 | MAS LEDtube 1200mm UE 13.5W 865 T8 | 50 to 60 Hz | 13.5 W | 0.5 s | - |
| 929003067202 | MAS LEDtube 1500mm UE 20W 840 T8 | 50 to 60 Hz | 20 W | 0.5 s | - |
| 929003067302 | MAS LEDtube 1500mm UE 20W 865 T8 | 50 to 60 Hz | 20 W | 0.5 s | - |
| 929003482202 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 50 to 60 Hz | 11.9 W | 1 s | - |
| 929003482208 | MAS LEDtube 1200mm UE | - | 11.9 W | 1 s | 36 W |

| Order Code | Full Product Name | Line Frequency | Power Consumption | Starting | |
|--------------|---|----------------|-------------------|------------|--------------------|
| | | | | Time (Nom) | Wattage Equivalent |
| | 11.9W 840 T8 EELA | | | | |
| 929003731808 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | - | 11.9 W | 1 s | 36 W |
| 929003731902 | MAS LEDtube 1500mm UE 17.6W 865 T8 EELA | - | 17.6 W | 1 s | - |
| 929004243608 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | - | 11.9 W | 1 s | 36 W |
| 929004243708 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | - | 11.9 W | 1 s | 36 W |

Temperature

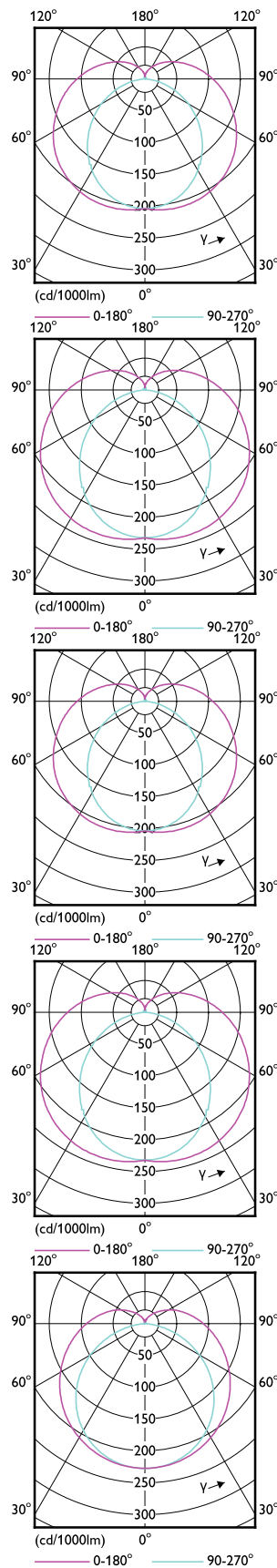
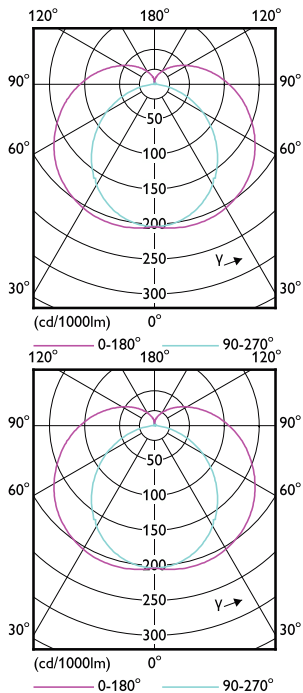
| Order Code | Full Product Name | T-Case Maximum (Nom) |
|--------------|---|----------------------|
| 929003067002 | MAS LEDtube 1200mm UE 13.5W 840 T8 | 55 °C |
| 929003067102 | MAS LEDtube 1200mm UE 13.5W 865 T8 | 55 °C |
| 929003067202 | MAS LEDtube 1500mm UE 20W 840 T8 | 60 °C |
| 929003067302 | MAS LEDtube 1500mm UE 20W 865 T8 | 60 °C |
| 929003482202 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 40 °C |

| Order Code | Full Product Name | T-Case Maximum (Nom) |
|--------------|---|----------------------|
| 929003482208 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 40 °C |
| 929003731808 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 40 °C |
| 929003731902 | MAS LEDtube 1500mm UE 17.6W 865 T8 EELA | 45 °C |
| 929004243608 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | 40 °C |
| 929004243708 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | 40 °C |

Approval and Application

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| Order Code | Full Product Name | Ambient temperature range | Energy Consumption kWh/1000 h |
|--------------|--|---------------------------|-------------------------------|
| 929003067002 | MAS LEDtube 1200mm UE 13.5W 840 T8 | -20 °C to 45 °C | 14 kWh |
| 929003067102 | MAS LEDtube 1200mm UE 13.5W 865 T8 | -20 °C to 45 °C | 14 kWh |
| 929003067202 | MAS LEDtube 1500mm UE 20W 840 T8 | -20 °C to 45 °C | 20 kWh |
| 929003067302 | MAS LEDtube 1500mm UE 20W 865 T8 | -20 °C to 45 °C | 20 kWh |
| 929003482202 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | -20 °C to 45 °C | 12 kWh |
| 929003482208 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | -20 to +45 °C | - |
| 929003731808 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | -20 to +45 °C | - |
| 929003731902 | MAS LEDtube 1500mm UE 17.6W 865 T8 EELA | -20 to +45 °C | 18 kWh |
| 929004243608 | MAS LEDtube 1200mm UE 11.9W 840 T8 EELA | -20 to +45 °C | - |
| 929004243708 | MAS LEDtube 1200mm UE 11.9W 865 T8 EELA | -20 to +45 °C | - |



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