



# The easy way to smart lighting

## MasterConnect LEDtube EM/Mains T8

Philips MasterConnect LEDtube EM/Mains T8 makes it easy to upgrade to a connected lighting system. Its 2.4 GHz mesh networking technology enables wireless integration with a variety of control devices, such as sensors and switches. The result? Even more energy saving and enhanced flexibility in your space. Through dimming, occupancy sensing and/or daylight harvesting, lamps deliver 50% or more energy saving thanks to MasterConnect technology.

### Benefits

- 50% energy saving vs conventional lamps, plus 20-40% via advanced controls
- On/off, dimming and scene setting to promote productivity and user comfort
- A flexible lighting solution to meet your dynamic needs in the space

### Features

- Retrofit to existing fluorescent lamps on EM ballast installations
- Superior lighting performance over 50,000 hrs lifetime
- Easy to commission and (re-)configure
- Reliable and secure wireless communication within a 2.4 GHz mesh network

### Application

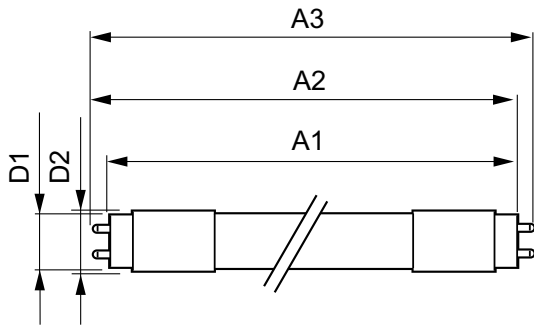
- Office, education and retail
- Parking, industry and warehouses

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## Versions



## Dimensional drawing



| Product   | D1         | D2    | A1           | A2           | A3           |
|---|------------|-------|--------------|--------------|--------------|
| MASTERConnect LEDtube IA<br>1200mm UO 16.5W865 T8 | 25.7<br>mm | 28 mm | 1199.4<br>mm | 1205.3<br>mm | 1212.4<br>mm |
| MASTERConnect LEDtube IA<br>1200mm UO 16.5W830 T8 | 25.7<br>mm | 28 mm | 1199.4<br>mm | 1205.3<br>mm | 1212.4<br>mm |
| MASTERConnect LEDtube IA<br>1500mm UO 25.5W830 T8 | 25.7<br>mm | 28 mm | 1500 mm      | 1507.1<br>mm | 1514.2<br>mm |
| MASTERConnect LEDtube IA<br>1200mm UO 16.5W840 T8 | 25.7<br>mm | 28 mm | 1199.4<br>mm | 1205.3<br>mm | 1212.4<br>mm |
| MASTERConnect LEDtube IA<br>1500mm UO 25.5W865 T8 | 25.7<br>mm | 28 mm | 1500 mm      | 1507.1<br>mm | 1514.2<br>mm |
| MASTERConnect LEDtube IA<br>1500mm UO 25.5W840 T8 | 25.7<br>mm | 28 mm | 1500 mm      | 1507.1<br>mm | 1514.2<br>mm |

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## Approval and Application

|                                       |             |
|---------------------------------------|-------------|
| Energy Efficiency Label (EEL)         | A++         |
| <b>Operating and Electrical</b>       |             |
| Input Frequency                       | 50 to 60 Hz |
| Voltage (Nom)                         | 220-240 V   |
| Starting Time (Nom)                   | 0.5 s       |
| <b>General Information</b>            |             |
| Cap-Base                              | G13         |
| Nominal Lifetime (Nom)                | 50000 h     |
| Switching Cycle                       | 200000X     |
| <b>Light Technical</b>                |             |
| Beam Angle (Nom)                      | 160 °       |
| Colour Rendering Index (Nom)          | 83          |
| Llmf At End Of Nominal Lifetime (Nom) | 70 %        |
| <b>Temperature</b>                    |             |
| T-Ambient (Max)                       | 45 °C       |
| T-Ambient (Min)                       | -20 °C      |
| T-Case Maximum (Nom)                  | 45 °C       |
| T-Storage (Max)                       | 65 °C       |
| T-Storage (Min)                       | -40 °C      |

## Approval and Application

| Order Code | Full Product Name                              | Energy Consumption kWh/1000 h |
|------------|--|-------------------------------|
| 77342000   | MASTERConnect LEDtube IA 1200mm UO 16.5W830 T8 | 17 kWh                        |
| 77344400   | MASTERConnect LEDtube IA 1200mm UO 16.5W840 T8 | 17 kWh                        |
| 77346800   | MASTERConnect LEDtube IA 1200mm UO 16.5W865 T8 | 17 kWh                        |
| 77348200   | MASTERConnect LEDtube IA 1500mm UO 25.5W830 T8 | 26 kWh                        |
| 77350500   | MASTERConnect LEDtube IA 1500mm UO 25.5W840 T8 | 26 kWh                        |
| 77352900   | MASTERConnect LEDtube IA 1500mm UO 25.5W865 T8 | 26 kWh                        |

## Operating and Electrical

| Order Code | Full Product Name                              | Power (Rated) (Nom) |
|------------|--|---------------------|
| 77342000   | MASTERConnect LEDtube IA 1200mm UO 16.5W830 T8 | 16.5 W              |
| 77344400   | MASTERConnect LEDtube IA 1200mm UO 16.5W840 T8 | 16.5 W              |
| 77346800   | MASTERConnect LEDtube IA 1200mm UO 16.5W865 T8 | 16.5 W              |

| Order Code | Full Product Name                              | Power (Rated) (Nom) |
|------------|--|---------------------|
| 77348200   | MASTERConnect LEDtube IA 1500mm UO 25.5W830 T8 | 25.5 W              |
| 77350500   | MASTERConnect LEDtube IA 1500mm UO 25.5W840 T8 | 25.5 W              |
| 77352900   | MASTERConnect LEDtube IA 1500mm UO 25.5W865 T8 | 25.5 W              |

## Light Technical

| Order Code | Full Product Name                              | Correlated Colour |                   |                     |
|------------|--|-------------------|-------------------|---------------------|
|            |  | Colour Code       | Temperature (Nom) | Luminous Flux (Nom) |
| 77342000   | MASTERConnect LEDtube IA 1200mm UO 16.5W830 T8 | 830               | 3000 K            | 2300 lm             |
| 77344400   | MASTERConnect LEDtube IA 1200mm UO 16.5W840 T8 | 840               | 4000 K            | 2500 lm             |
| 77346800   | MASTERConnect LEDtube IA 1200mm UO 16.5W865 T8 | 865               | 6500 K            | 2500 lm             |
| 77348200   | MASTERConnect LEDtube IA 1500mm UO 25.5W830 T8 | 830               | 3000 K            | 3400 lm             |

| Order Code | Full Product Name                              | Correlated Colour |                   |                     |
|------------|--|-------------------|-------------------|---------------------|
|            |  | Colour Code       | Temperature (Nom) | Luminous Flux (Nom) |
| 77350500   | MASTERConnect LEDtube IA 1500mm UO 25.5W840 T8 | 840               | 4000 K            | 3700 lm             |
| 77352900   | MASTERConnect LEDtube IA 1500mm UO 25.5W865 T8 | 865               | 6500 K            | 3700 lm             |

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