



# MASTER LEDtube EM/ Mains T8 with Recycled Plastic



## MAS LEDtube 600mm HO 7.6W865 T8

Our new sustainability hero Philips MASTER LEDtube T8 EM/mains — a pioneering LED tube designed for performance, durability, and environmental impact. As the first-ever LED tube to feature 40% post-consumer recycled plastic, it sets a new standard for sustainable lighting without compromising quality. With a long lifetime of 75,000 hours and high luminous efficacy up to 185 lm/W, the MASTER LEDtube T8 ensures outstanding energy efficiency. These T8 LED 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 ensure this tube master every demanding application.

### Product data

| General Information        |                |
|----------------------------|----------------|
| Cap-Base                   | G13 ROT        |
| Nominal lifetime           | 75,000 hour(s) |
| Switching Cycle            | 200,000        |
| Lighting Technology        | LED            |
| Flux measurement reference | Sphere         |
| Warranty period            | 5 years        |

| Light Technical   |                    |
|-------------------|--------------------|
| Color Code        | 865 [CCT of 6500K] |
| Beam Angle (Nom)  | 160 degree(s)      |
| Luminous Flux     | 1,150 lm           |
| Color Designation | Cool Daylight      |

|                                              |          |
|----------------------------------------------|----------|
| Correlated Color Temperature (Nom)           | 6500 K   |
| Luminous Efficacy (rated) (Nom)              | 151 lm/W |
| Color Consistency                            | <6       |
| Color rendering index (CRI)                  | 80       |
| LLMF At End Of Nominal Lifetime (Nom)        | 70 %     |
| Photobiological safety according to EN 62471 | RG0      |

| Operating and Electrical |             |
|--------------------------|-------------|
| Input Frequency          | 50 to 60 Hz |
| Power Consumption        | 7.6 W       |
| Lamp Current (Max)       | 40 mA       |
| Lamp Current (Min)       | 30 mA       |
| Starting Time (Nom)      | 0.5 s       |

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|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| Warm-up time to 60% light                                                    | 0.5 s     |
| Power Factor (Fraction)                                                      | 0.9       |
| Voltage (Nom)                                                                | 220-240 V |
| LED alternative to fluorescent lamp power                                    | 18W TL-D  |
| Inrush current at mains                                                      | 7         |
| Max. lamp no. on MCB B type 10A – Mains                                      | 105       |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 125       |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 30        |
| Max. lamp no. on MCB B type 16A – Mains                                      | 170       |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 290       |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 49        |
| Ballast Compatibility                                                        | EM/Mains  |

Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 50 °C |
|----------------------|-------|

Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

Mechanical and Housing

|                    |          |
|--------------------|----------|
| Bulb Finish        | Frosted  |
| Bulb Material      | Plastic  |
| Product Length     | 600 mm   |
| Bulb Shape         | T8       |
| Net Weight (Piece) | 0.095 kg |

Approval and Application

|                         |   |
|-------------------------|---|
| Energy Efficiency Class | D |
|-------------------------|---|

|                                                                 |                                                                      |
|-----------------------------------------------------------------|----------------------------------------------------------------------|
| Energy Saving Product                                           | Yes                                                                  |
| Approval Marks                                                  | RoHS compliance CE marking<br>KEMA Keur certificate ENEC certificate |
| Energy Consumption kWh/1000 h                                   | 8 kWh                                                                |
| EPREL Registration Number                                       | 2144217                                                              |
| CE mark                                                         | Yes                                                                  |
| EU RoHS compliant                                               | Yes                                                                  |
| Flickering value (PstLM) – Flickering value as per EN 61000-3-3 | 0.1                                                                  |
| Stroboscopic effect visibility measure (SVM)                    | 0.1                                                                  |
| Ambient temperature range                                       | -20 to +45 °C                                                        |

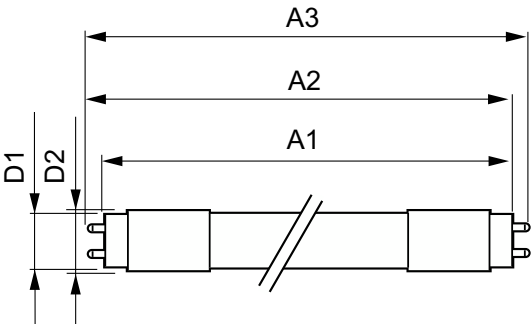
Application Conditions

|                                     |     |
|-------------------------------------|-----|
| can it be used in closed luminaires | Yes |
|-------------------------------------|-----|

Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Order product name              | MAS LEDtube 600mm HO 7.6W865 T8 |
| Full product name               | MAS LEDtube 600mm HO 7.6W865 T8 |
| Full product code               | 872110304419800                 |
| Order code                      | 929004260402                    |
| Material Nr. (12NC)             | 929004260402                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 8721103044198                   |
| Numerator - Packs per outer box | 10                              |
| EAN/UPC - Case                  | 8721103044204                   |

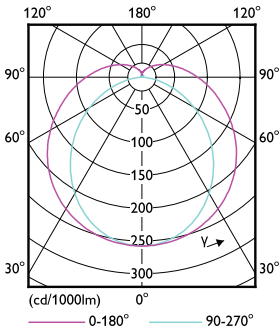
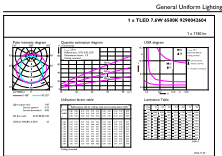
Dimensional drawing



| Product                         | D1      | D2    | A1       | A2       | A3       |
|---------------------------------|---------|-------|----------|----------|----------|
| MAS LEDtube 600mm HO 7.6W865 T8 | 25.8 mm | 28 mm | 588.5 mm | 595.5 mm | 602.5 mm |

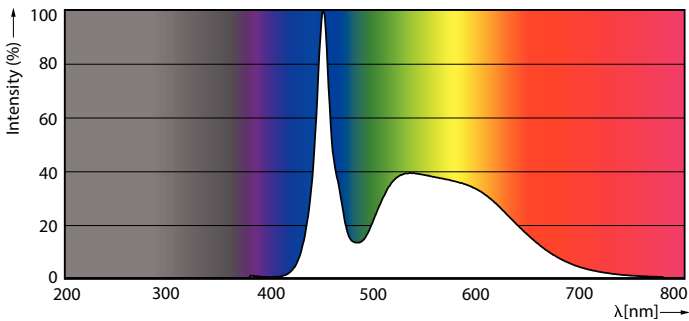
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Photometric data



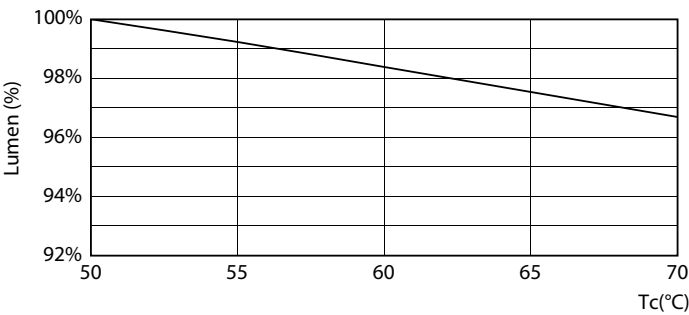
General uniform lighting - MAS LEDtube 600mm HO 7.6W865 T8

Light Distribution Diagram - MAS LEDtube 600mm HO 7.6W865 T8

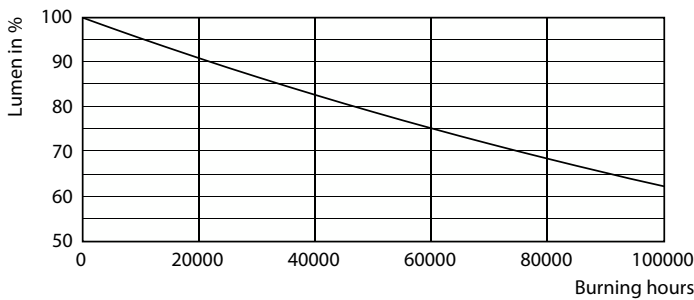


Spectral Power Distribution Colour - MAS LEDtube 600mm HO 7.6W865 T8

Lifetime



Lumen Maintenance Diagram - MAS LEDtube 600mm HO 7.6W865 T8



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Lifetime



LEDtube-75K-5070-FailureRate-LED

Life Expectancy Diagram



LifetimeVsTc

