



# MASTER LEDtube Mains T5



## MAS LEDtube 600mm HE 7W 840 T5 EU

The new Philips Master LEDtube Mains T5 brings simplicity to your lighting project. You don't need to pay attention to the driver technology anymore. Thanks to a unique design, Philips MASTER LEDtube Mains T5 installs in luminaires operating on mains power connection. So simple to operate! . Perfectly safe, reliable & easy to install Philips MASTER LEDtube Mains T5 is the ideal alternative to standard fluorescent tubes to maximize value over lifetime with high energy saving and lower maintenance costs.

#### **Product data**

| General Information                   |                                 |  |  |  |
|---------------------------------------|---------------------------------|--|--|--|
| Cap-Base                              | G5<br>50,000 hour(s)<br>200,000 |  |  |  |
| Nominal lifetime                      |                                 |  |  |  |
| Switching Cycle                       |                                 |  |  |  |
| Lighting Technology                   | LED                             |  |  |  |
| Flux measurement reference            | Sphere                          |  |  |  |
|                                       |                                 |  |  |  |
| Light Technical                       |                                 |  |  |  |
| Color Code                            | 840 [CCT of 4000K]              |  |  |  |
| Beam Angle (Nom)                      | 200 degree(s)                   |  |  |  |
| Luminous Flux                         | 1,050 lm                        |  |  |  |
| Color Designation                     | Cool White (CW)                 |  |  |  |
| Correlated Color Temperature (Nom)    | 4000 K                          |  |  |  |
| Luminous Efficacy (rated) (Nom)       | 150 lm/W                        |  |  |  |
| Color Consistency                     | <6                              |  |  |  |
| Color rendering index (CRI)           | ing 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 W                       |  |  |  |
| Lamp Current (Nom)                           | 32 mA                     |  |  |  |
| Starting Time (Nom)                          | 0.5 s                     |  |  |  |
| Warm-up time to 60% light                    | 0.5 s<br>0.9<br>220-240 V |  |  |  |
| Power Factor (Fraction)                      |                           |  |  |  |
| Voltage (Nom)                                |                           |  |  |  |
| LED alternative to fluorescent lamp power    | 14 W                      |  |  |  |
| Inrush current at mains                      | 4.5                       |  |  |  |
| Max. lamp no. on MCB B type 10A - Mains      | 160                       |  |  |  |
| Max. lamp no. on MCB B type 10A – EM ballast | -                         |  |  |  |
| without Compensation Capacitor.              |                           |  |  |  |
| Max. lamp no. on MCB B type 10A – EM ballast | -                         |  |  |  |
| with Compensation Capacitor.                 |                           |  |  |  |
| Max. lamp no. on MCB B type 16A - Mains      | 254                       |  |  |  |

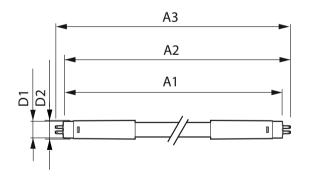
Datasheet, 2024, September 24 data subject to change

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| Max. lamp no. on MCB B type 16A – EM ballast | -                         |  |  |  |  |
|--|---------------------------|--|--|--|--|
| without Compensation Capacitor.              |                           |  |  |  |  |
| Max. lamp no. on MCB B type 16A – EM ballast | -                         |  |  |  |  |
| with Compensation Capacitor.                 |                           |  |  |  |  |
| Ballast Compatibility                        | Mains                     |  |  |  |  |
|  |                           |  |  |  |  |
| Temperature                                  |                           |  |  |  |  |
| T-Case Maximum (Nom)                         | 50 °C                     |  |  |  |  |
|  |                           |  |  |  |  |
| Controls and Dimming                         |                           |  |  |  |  |
| Dimmable                                     | No                        |  |  |  |  |
|  |                           |  |  |  |  |
| Mechanical and Housing                       |                           |  |  |  |  |
| Bulb Finish                                  | Frosted                   |  |  |  |  |
| Bulb Material                                | Glass                     |  |  |  |  |
| Product Length                               | 600 mm                    |  |  |  |  |
| Bulb Shape                                   | T5                        |  |  |  |  |
| Net Weight (Piece)                           | 0.070 kg                  |  |  |  |  |
|  |                           |  |  |  |  |
| Approval and Application                     |                           |  |  |  |  |
| Energy Efficiency Class                      | D                         |  |  |  |  |
| Energy Saving Product                        | Yes                       |  |  |  |  |
| Approval Marks                               | RoHS compliance KEMA Keur |  |  |  |  |
|  | certificate               |  |  |  |  |
| Energy Consumption kWh/1000 h                | 7 kWh                     |  |  |  |  |
|  |                           |  |  |  |  |

| EPREL Registration Number                          | 1840374                     |  |  |  |
|--|-----------------------------|--|--|--|
| CE mark  | Yes                         |  |  |  |
| EU RoHS compliant                                  | Yes                         |  |  |  |
| Flickering value (PstLM) - Flickering value as per | 1                           |  |  |  |
| EN 61000-3-3                                       |                             |  |  |  |
| Stroboscopic effect visibility measure (SVM)       | 0.4                         |  |  |  |
| 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 HE 7W 840 |  |  |  |
|  | T5 EU                       |  |  |  |
| Full product name                                  | MAS LEDtube 600mm HE 7W 840 |  |  |  |
|  | T5 EU                       |  |  |  |
| Full product code                                  | 872016930682000             |  |  |  |
| Order code   | 929003795502                |  |  |  |
| Material Nr. (12NC)                                | 929003795502                |  |  |  |
| Numerator - Quantity Per Pack                      | 1                           |  |  |  |
| EAN/UPC - Product/Case                             | 8720169306820               |  |  |  |
| Numerator - Packs per outer box                    | 10                          |  |  |  |
| EAN/UPC - Case                                     | 8720169306837               |  |  |  |
|  |                             |  |  |  |

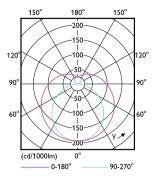
# Dimensional drawing



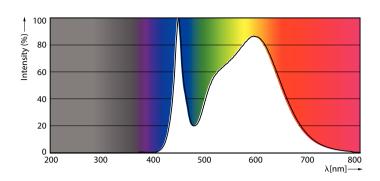
| Product                        | D1      | D2    | A1     | A2       | А3       |
|--------------------------------|---------|-------|--------|----------|----------|
| MAS LEDtube 600mm HE 7W 840 T5 | 15.7 mm | 19 mm | 549 mm | 556.1 mm | 563.2 mm |
| EU                             |         |       |        |          |          |

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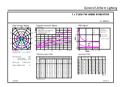
#### Photometric data



Light Distribution Diagram - MAS LEDtube 600mm HE 7W 840 T5 EU



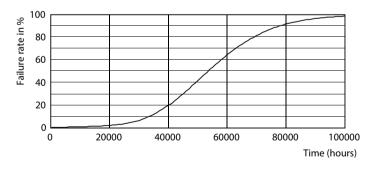
Spectral Power Distribution Colour - MAS LEDtube 600mm HE 7W 840 T5 EU



CidedaCK Photometrics 4.5 Philips Lighting B.V. Pager 171

General uniform lighting - MAS LEDtube 600mm HE 7W 840 T5 EU

#### Lifetime



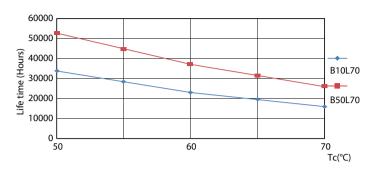
100 Failure rate in % 80 70 60 60 40 50 20 0 20000 80000 100000 40000 60000 Time (hours)

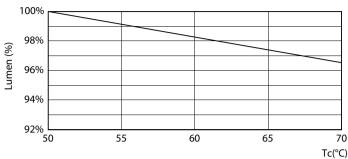
Life Expectancy Diagram

FailureRate

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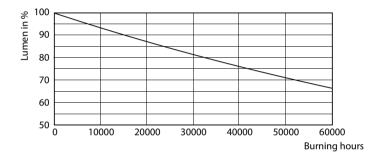
#### Lifetime





#### LifetimeVsTc

Lumen Maintenance Diagram - MAS LEDtube 600mm HE 7W 840 T5 EU



Lumen Maintenance Diagram - MAS LEDtube 600mm HE 7W 840 T5 EU



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