PHILIPS

Lighting

# MASTER LED tube Mains T5

## MAS LEDtube 600mm HE 7W 830 T5 EU

MASTER, LEDtube, T5, Mains, 600 mm, 7 W, 14W TL5 HE, 3000 K, 1000 lm, CRI 80, 60000 hour(s)

MASTER, LEDtube, T5, Mains, 600 mm, 7 W, LED alternative to 14W TL5 HE, 3000 K, 1000 lm, CRI 80, 60000 hour(s), 142 lm/W, EEL D, G5, Beam angle 200 degree(s), Glass, 600 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.4, PstLM 1

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G5 |
| **Nominal lifetime** | 60,000 hour(s) |
| **Switching Cycle** | 200,000 |
| **Lighting Technology** | LEDtube |
| **Flux measurement reference** | Sphere |
| **Warranty period** | 5 years |

| Light Technical | |
|---|---|
| **Color Code** | 830 [CCT of 3000K] |
| **Beam Angle (Nom)** | 200 degree(s) |
| **Luminous Flux** | 1,000 lm |
| **Color Designation** | White (WH) |
| **Correlated Color Temperature (Nom)** | 3000 K |
| **Luminous Efficacy (rated) (Nom)** | 142 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 W |
| **Lamp Current (Nom)** | 32 mA |
| **Starting Time (Nom)** | 0.5 s |
| **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** | 14W TL5 HE |
| **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 |

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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** | 1826568 |

| | |
|---|---|
| **CE mark** | Yes |
| **EU RoHS compliant** | Yes |
| **Flickering value (PstLM) - Flickering value as per EN 61000-3-3** | 1 |
| **Stroboscopic effect visibility measure (SVM)** | 0.4 |
| **Ambient temperature range** | -20 to +45 °C |

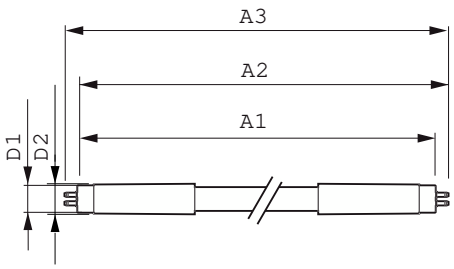
### Application Conditions

| | |
|---|---|
| **can it be used in closed luminaires** | Yes |
| **Wireless Technology** | Not applicable |

### Product Data

| | |
|---|---|
| **Order product name** | MAS LEDtube 600mm HE 7W 830 T5 EU |
| **Full product name** | MAS LEDtube 600mm HE 7W 830 T5 EU |
| **Full product code** | 872016931169500 |
| **Order code** | 929003795402 |
| **Material Nr. (12NC)** | 929003795402 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8720169311695 |
| **Numerator - Packs per outer box** | 10 |
| **EAN/UPC - Case** | 8720169311701 |

## Dimensional drawing




| D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|
| 15.7mm | 19mm | 549mm | 556.1mm | 563.2mm |

| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| MAS LEDtube 600mm HE 7W 830 T5 EU | 15.7 mm | 19 mm | 549 mm | 556.1 mm | 563.2 mm |

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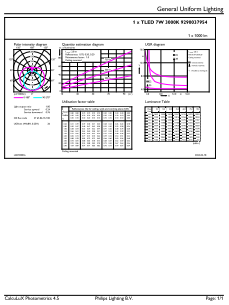
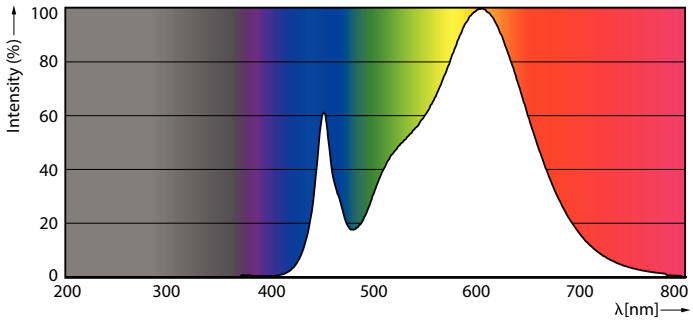
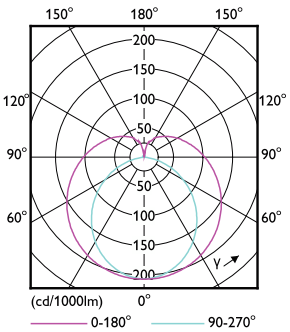
## Photometric data



General uniform lighting - MAS LEDtube 600mm HE 7W 830 T5 EU

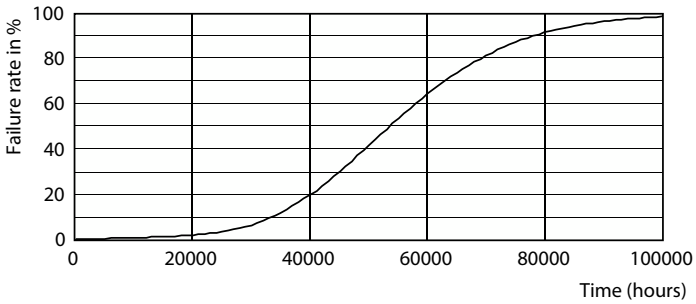



Spectral Power Distribution Colour - MAS LEDtube 600mm HE 7W 830 T5 EU

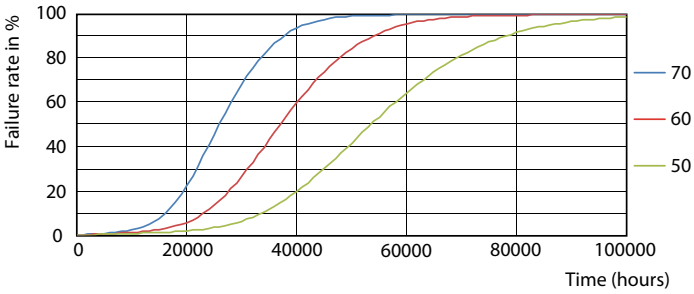



Light Distribution Diagram - MAS LEDtube 600mm HE 7W 830 T5 EU

## Lifetime




Life Expectancy Diagram




FailureRate

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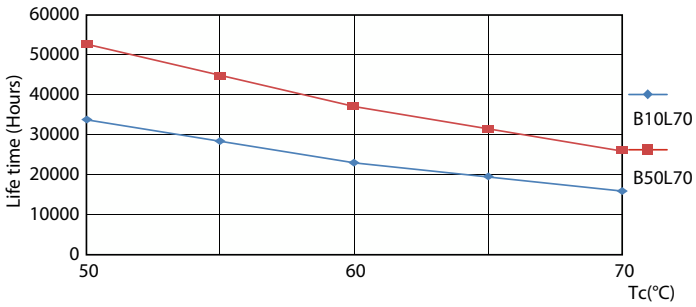
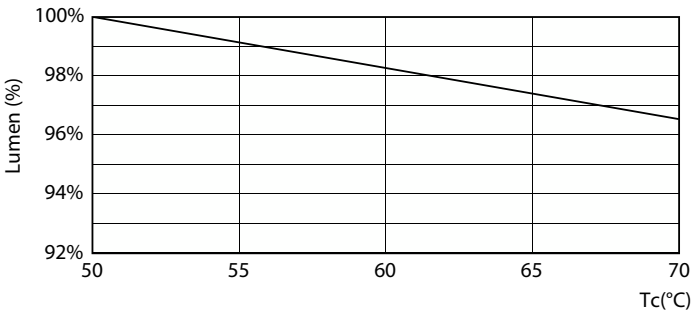
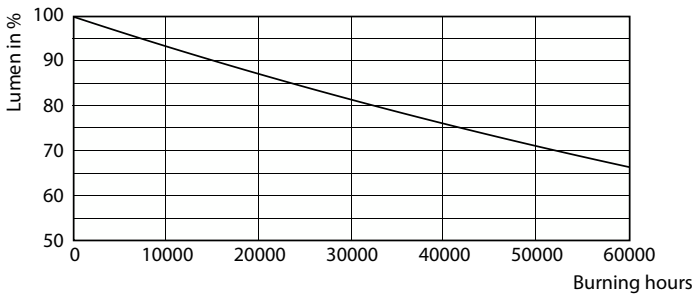
## Lifetime




LifetimeVsTc




Lumen Maintenance Diagram - MAS LEDtube 600mm HE 7W 830 T5 EU




Lumen Maintenance Diagram - MAS LEDtube 600mm HE 7W 830 T5 EU

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