PHILIPS

Lighting




# Essential LEDtube

## LEDtube 1200mm 16W 765 T8 AP I G

Essential LEDtube is an affordable LED tube that is suitable for replacing T8 fluorescent lamps. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G13 [Medium Bi-Pin Fluorescent] |
| **Nominal lifetime** | 15,000 hour(s) |
| **Switching Cycle** | 50,000 |
| **Lighting Technology** | LED |
| **EU RoHS compliant** | Yes |

| Light Technical | |
|---|---|
| **Color Code** | 765 [CCT of 6500K] |
| **Beam Angle (Nom)** | 240 degree(s) |
| **Luminous Flux** | 1,600 lm |
| **Color Designation** | Cool Daylight |
| **Correlated Color Temperature (Nom)** | 6500 K |
| **Luminous Efficacy (rated) (Nom)** | 100.00 lm/W |
| **Color Consistency** | <7 |
| **Color rendering index (CRI)** | 73 |
| **LLMF At End Of Nominal Lifetime (Nom)** | 70 % |

| Operating and Electrical | |
|---|---|
| **Line Frequency** | 50 to 60 Hz |
| **Input Frequency** | 50 to 60 Hz |
| **Power Consumption** | 16 W |
| **Starting Time (Nom)** | 0.5 s |
| **Warm-up time to 60% light** | 0.5 s |
| **Power Factor (Fraction)** | 0.5 |
| **Voltage (Nom)** | 220-240 V |

| Temperature | |
|---|---|
| **Ambient temperature range** | -20 °C to 45 °C |
| **T-Case Maximum (Nom)** | 60 °C |

| Controls and Dimming | |
|---|---|
| **Dimmable** | No |

| Mechanical and Housing | |
|---|---|
| **Product Length** | 1,200 mm |
| **Bulb Shape** | T8 |

| Approval and Application | |
|---|---|
| **Energy Saving Product** | Yes |
| **Suitable For Accent Lighting** | No |
| **Approval Marks** | RoHS compliance KEMA Keur certificate |
| **Energy Consumption kWh/1000 h** | 16 kWh |

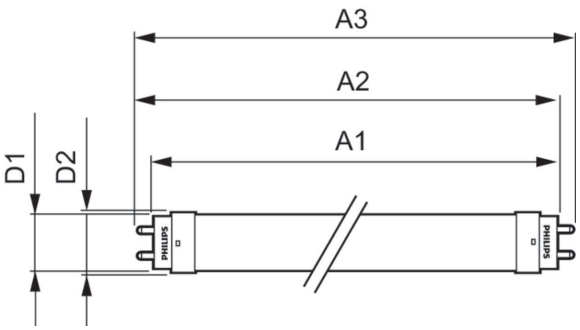
| Product Data | |
|---|---|
| **Order product name** | LEDtube 1200mm 16W 765 T8 AP I G |

# Essential LEDtube

| | |
|---|---|
| **Full product name** | LEDtube 1200mm 16W 765 T8 AP I G |
| **Full product code** | 871869659998300 |
| **Order code** | 929001184638 |
| **Material Nr. (12NC)** | 929001184638 |
| **Numerator - Quantity Per Pack** | 1 |

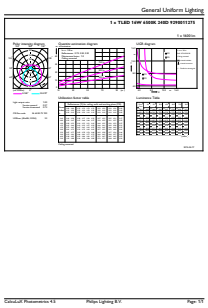
| | |
|---|---|
| **EAN/UPC - Product/Case** | 8718696599983 |
| **Numerator - Packs per outer box** | 20 |
| **EAN/UPC - Case** | 8718696599990 |

## Dimensional drawing

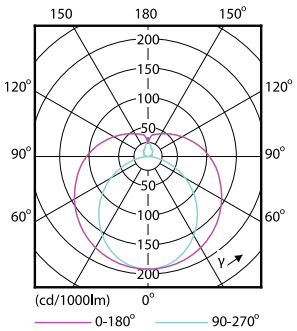



| Product | D1 | D2 | A1 | A2 | A3 | C | D |
|---|---|---|---|---|---|---|---|
| LEDtube 1200mm 16W 765 T8 AP I G | 25.68 mm | 28 mm | 1,198 mm | 1,205 mm | 1,212 mm | 1,212 mm | 27.8 mm |

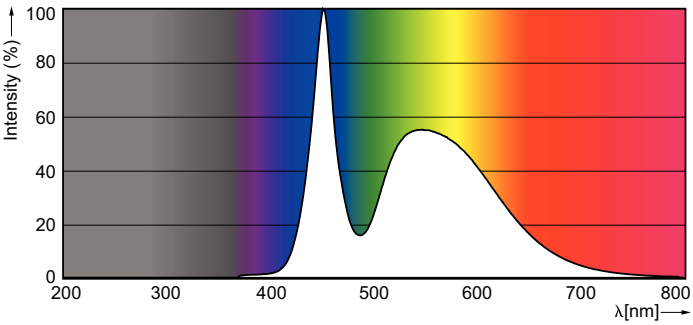
## Photometric data



General uniform lighting - LEDtube 1200mm 16W 765 T8 AP I G

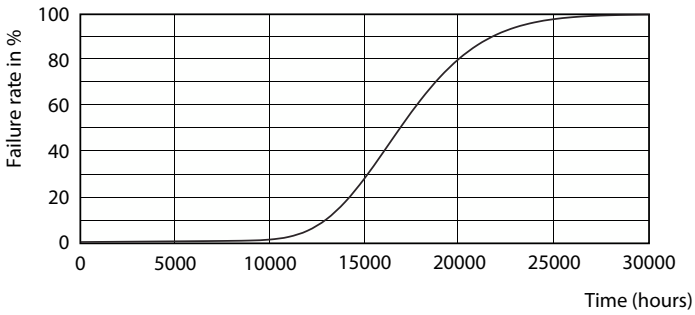



Light Distribution Diagram - LEDtube 1200mm 16W 765 T8 AP I G

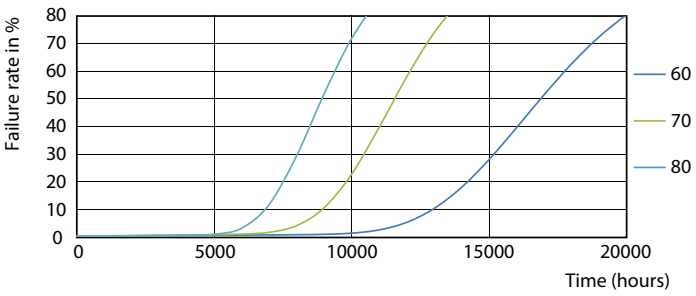



Spectral Power Distribution Colour - LEDtube 1200mm 16W 765 T8 AP I G

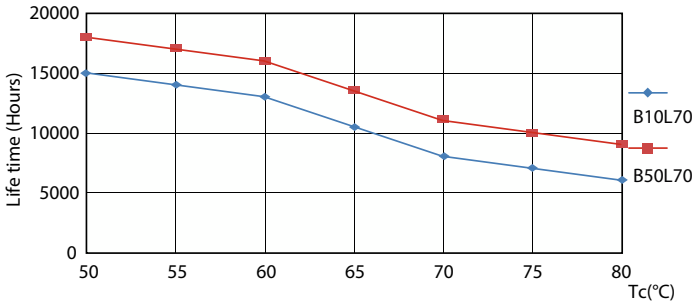
## Lifetime



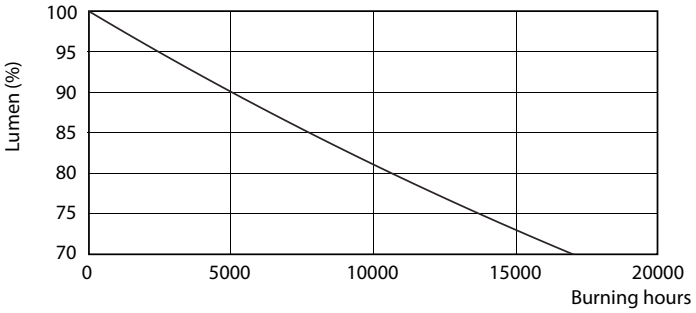

Life Expectancy Diagram - LEDtube 1200mm 16W 765 T8 AP I G



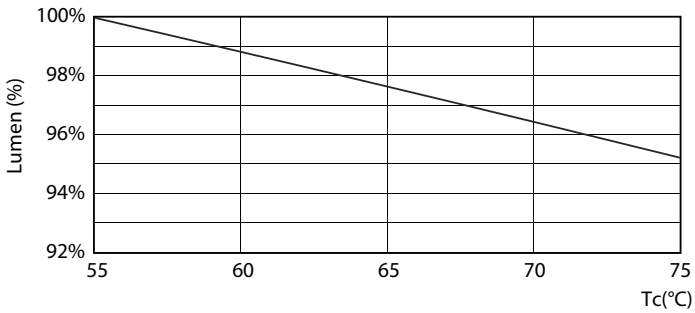

Life Expectancy Diagram - LEDtube 1200mm 16W 765 T8 AP I G




Life Expectancy Diagram - LEDtube 1200mm 16W 765 T8 AP I G




Lumen Maintenance Diagram - LEDtube 1200mm 16W 765 T8 AP I G




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2024, January 5 - data subject to change