

# MASTER Value LEDtube Universal T8



## MAS LEDtube VLE UN 1500mm UO 23W830 T8

The new Philips MASTER Value LEDtube Universal T8 brings ease and simplicity to your lighting project. That's because you do not need to match the driver technology anymore: a unique design enables the Philips MASTER Value LEDtube Universal T8 to directly fit in luminaires operating on either electromagnetic ballasts or HF electronic ballasts or mains power connection. It is so simple to operate and you no longer need to stock two types of tubes! Perfectly safe, reliable & easy to install Philips MASTER Value LEDtube Universal T8 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                |                                 | LLMF At End Of Nominal Lifetime (Nom)        |             |
|------------------------------------|---------------------------------|----------------------------------------------|-------------|
| Cap-Base                           | G13 [Medium Bi-Pin Fluorescent] |                                              | 70 %        |
| Nominal lifetime                   | 60,000 hour(s)                  | Photobiological safety according to EN 62471 | RGO         |
| Switching Cycle                    | 50,000                          | Operating and Electrical                     |             |
| Lighting Technology                | LED                             | Line Frequency                               | 50 to 60 Hz |
| Flux measurement reference         | Sphere                          | Input Frequency                              | 50 to 60 Hz |
| Light Technical                    |                                 | Power Consumption                            | 23 W        |
| Color Code                         | 830 [CCT of 3000K]              | Lamp Current (Nom)                           | 106 mA      |
| Beam Angle (Nom)                   | 190 degree(s)                   | Starting Time (Nom)                          | 0.5 s       |
| Luminous Flux                      | 3,400 lm                        | Warm-up time to 60% light                    | 0.5 s       |
| Color Designation                  | White (WH)                      | Power Factor (Fraction)                      | 0.9         |
| Correlated Color Temperature (Nom) | 3000 K                          | Voltage (Nom)                                | 220-240 V   |
| Luminous Efficacy (rated) (Nom)    | 147 lm/W                        | LED alternative to fluorescent lamp power    | 58 W        |
| Color Consistency                  | <6                              | Inrush current at mains                      | 10          |
| Color rendering index (CRI)        | 80                              | Max. lamp no. on MCB B type 10A - Mains      | 73          |

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|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 73        |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 15        |
| Max. lamp no. on MCB B type 16A – Mains                                      | 116       |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 116       |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 25        |
| Ballast Compatibility                                                        | Universal |

Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 55 °C |
|----------------------|-------|

Controls and Dimming

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

Mechanical and Housing

|                    |          |
|--------------------|----------|
| Bulb Finish        | Frosted  |
| Bulb Material      | Glass    |
| Product Length     | 1,500 mm |
| Bulb Shape         | T8       |
| Net Weight (Piece) | 0.290 kg |

Approval and Application

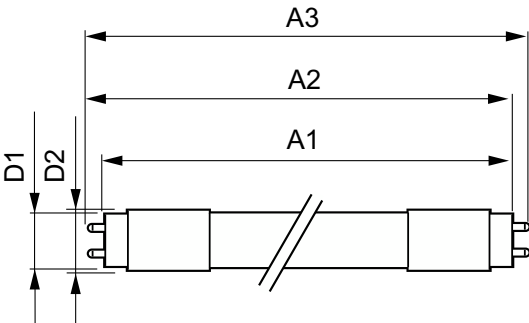
|                         |   |
|-------------------------|---|
| Energy Efficiency Class | D |
|-------------------------|---|

|                                                                 |                 |
|-----------------------------------------------------------------|-----------------|
| Energy Saving Product                                           | Yes             |
| Approval Marks                                                  | RoHS compliance |
| Energy Consumption kWh/1000 h                                   | 23 kWh          |
| EPREL Registration Number                                       | 1195916         |
| 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   |

Product Data

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Order product name              | MAS LEDtube VLE UN 1500mm UO 23W830 T8 |
| Full product name               | MAS LEDtube VLE UN 1500mm UO 23W830 T8 |
| Full product code               | 871951431674400                        |
| Order code                      | 929002997302                           |
| Material Nr. (12NC)             | 929002997302                           |
| Numerator – Quantity Per Pack   | 1                                      |
| EAN/UPC – Product/Case          | 8719514316744                          |
| Numerator – Packs per outer box | 10                                     |
| EAN/UPC – Case                  | 8719514316751                          |

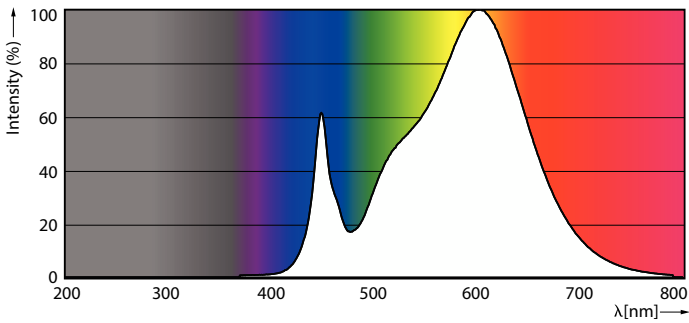
Dimensional drawing



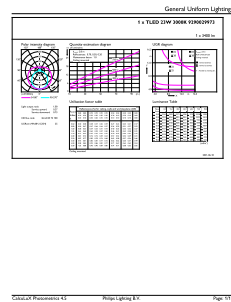
| Product                                | D1    | D2    | A1       | A2       | A3       |
|----------------------------------------|-------|-------|----------|----------|----------|
| MAS LEDtube VLE UN 1500mm UO 23W830 T8 | 26 mm | 28 mm | 1,500 mm | 1,506 mm | 1,514 mm |

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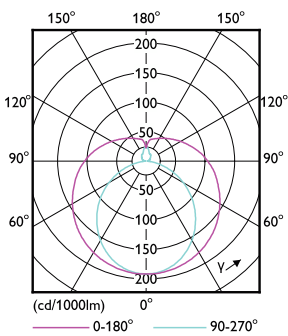
Photometric data



Spectral Power Distribution Colour - MAS LEDtube VLE UN 1500mm UO 23W830 T8

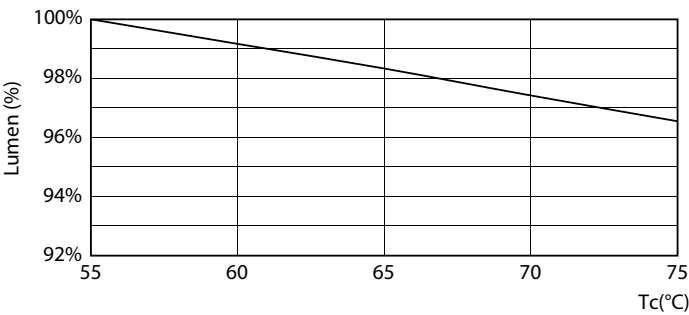


General uniform lighting - MAS LEDtube VLE UN 1500mm UO 23W830 T8

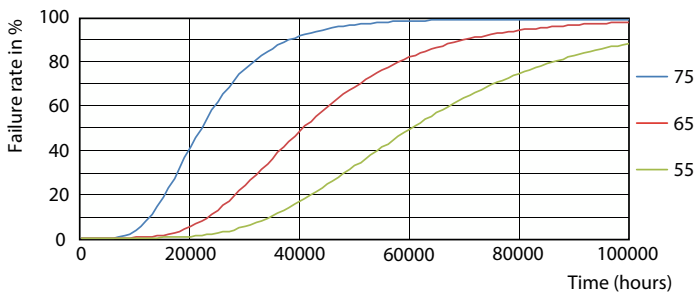


Light Distribution Diagram - MAS LEDtube VLE UN 1500mm UO 23W830 T8

Lifetime



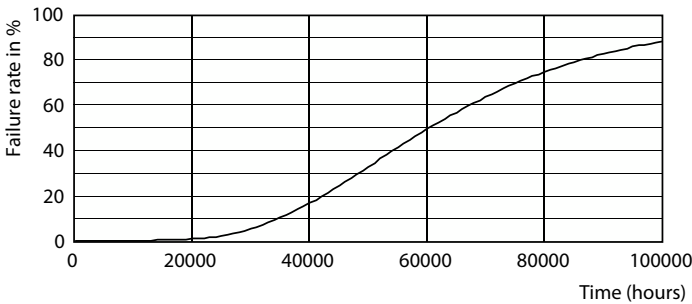
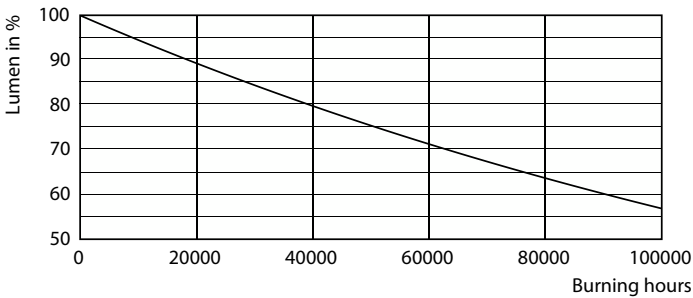
Lumen Maintenance Diagram - MAS LEDtube VLE UN 1500mm UO 23W830 T8



FailureRate

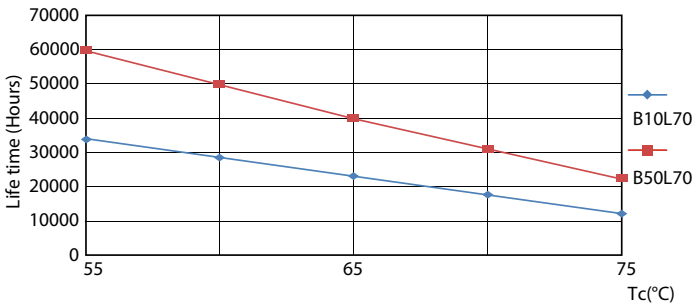
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube VLE UN 1500mm UO 23W830 T8

Life Expectancy Diagram



LifetimeVsTc

