

# Master Value LEDtube Universal T8

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

The new Philips MASTER LEDtube Universal T8 brings ease and simplicity to your lighting project. You don't need to match the driver technology any more: a unique design enables the Philips MASTER 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 and easy to install, the Philips MASTER LEDtube Universal T8 is the ideal alternative to standard fluorescent tubes: to maximise value over lifetime with high energy savings and lower maintenance costs.

### Product data

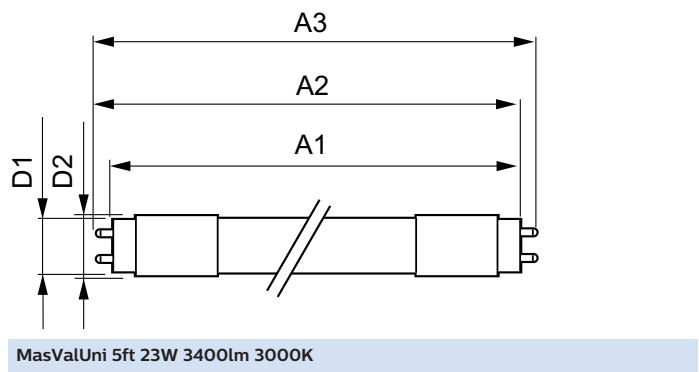
| General Information                    |                                  |
|----------------------------------------|----------------------------------|
| Cap base                               | G13 [ Medium Bi-Pin Fluorescent] |
| EU RoHS compliant                      | Yes                              |
| Nominal lifetime (nom.)                | 60000 h                          |
| Switching cycle                        | 50,000X                          |
| Light Technical                        |                                  |
| Colour Code                            | 830 [ CCT of 3,000 K]            |
| Beam Angle (Nom)                       | 190 °                            |
| Luminous flux (nom.)                   | 3400 lm                          |
| Colour designation                     | White (WH)                       |
| Correlated Colour Temperature (Nom)    | 3000 K                           |
| Luminous efficacy (rated) (nom.)       | 147.00 lm/W                      |
| Colour consistency                     | <6                               |
| Colour rendering index (nom.)          | 80                               |
| LLMF at end of nominal lifetime (nom.) | 70 %                             |

| Operating and Electrical         |             |
|----------------------------------|-------------|
| Input frequency                  | 50 to 60 Hz |
| Power (Rated) (Nom)              | 23 W        |
| Lamp current (nom.)              | 106 mA      |
| Starting time (nom.)             | 0.5 s       |
| Warm-up time to 60% light (nom.) | 0.5 s       |
| Power factor (nom.)              | 0.9         |
| Voltage (Nom)                    | 220-240 V   |
| Temperature                      |             |
| T-ambient (max.)                 | 45 °C       |
| T-ambient (min.)                 | -20 °C      |
| T storage (max.)                 | 65 °C       |
| T storage (min.)                 | -40 °C      |
| T-Case maximum (nom.)            | 60 °C       |

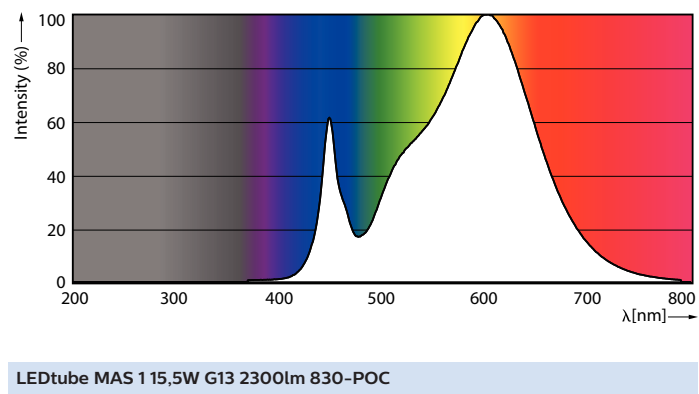
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| Controls and Dimming          |                                                  |
|-------------------------------|--------------------------------------------------|
| Dimmable                      | No                                               |
| Mechanical and Housing        |                                                  |
| Lamp Finish                   | Frosted                                          |
| Bulb material                 | Glass                                            |
| Product length                | 1500 mm                                          |
| Bulb shape                    | Tube, double-ended                               |
| Approval and Application      |                                                  |
| Energy efficiency label (EEL) | D                                                |
| Energy-saving product         | Yes                                              |
| Approval marks                | RoHS compliance CE marking KEMA Keur certificate |

## Dimensional drawing

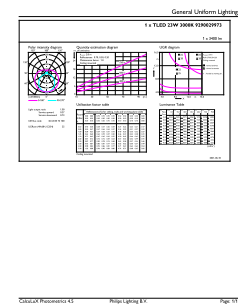


## Photometric data



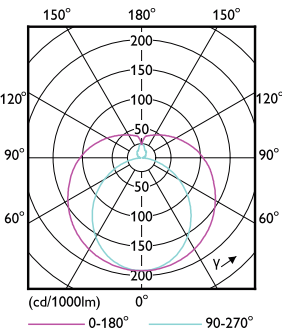
| Energy consumption kWh/1,000 hours | 23 kWh                                 |
|------------------------------------|----------------------------------------|
| Product Data                       |                                        |
| Full product code                  | 871951431674400                        |
| Order product name                 | MAS LEDtube VLE UN 1500mm UO 23W830 T8 |
| EAN/UPC – product                  | 8719514316744                          |
| Order code                         | 31674400                               |
| SAP numerator – quantity per pack  | 1                                      |
| Numerator – packs per outer box    | 10                                     |
| SAP material                       | 929002997302                           |
| SAP net weight (piece)             | 0.270 kg                               |

| Product                                | D1    | D2    | A1      | A2      | A3      |
|----------------------------------------|-------|-------|---------|---------|---------|
| MAS LEDtube VLE UN 1500mm UO 23W830 T8 | 26 mm | 28 mm | 1500 mm | 1506 mm | 1514 mm |



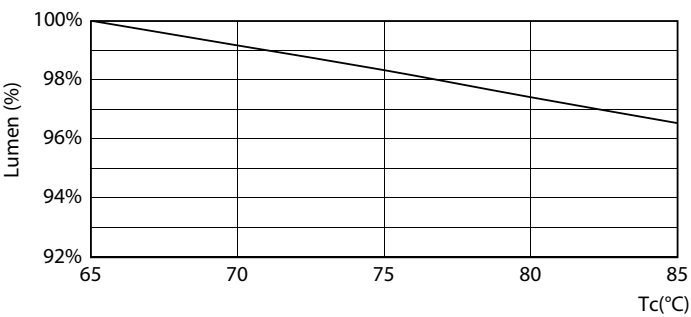
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Photometric data

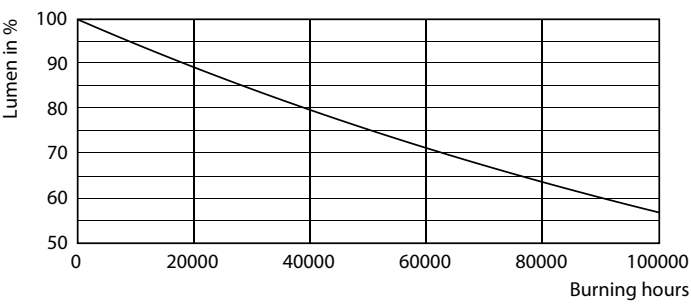


LEDtube MAS 1 15,5W G13 2300lm-LDD

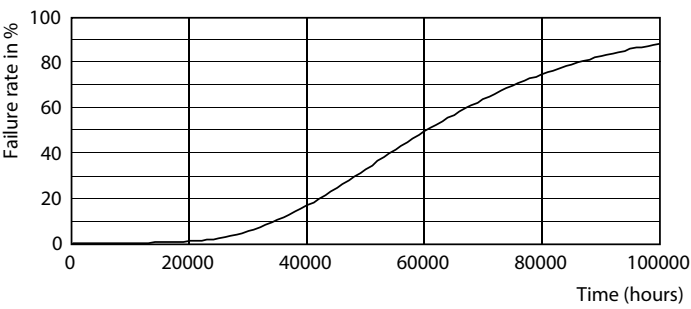
Lifetime



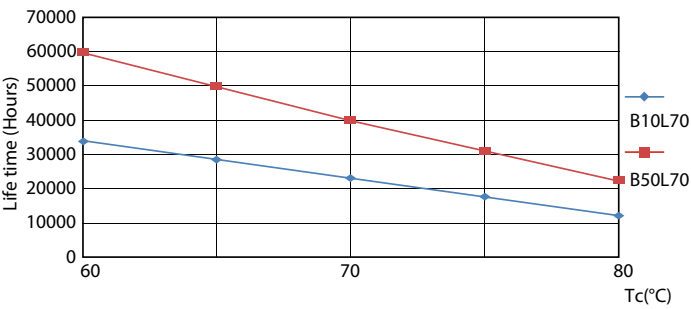
LEDtube MAS 1 23W 60K LumenVsTc-LMP



LEDtube\_60K



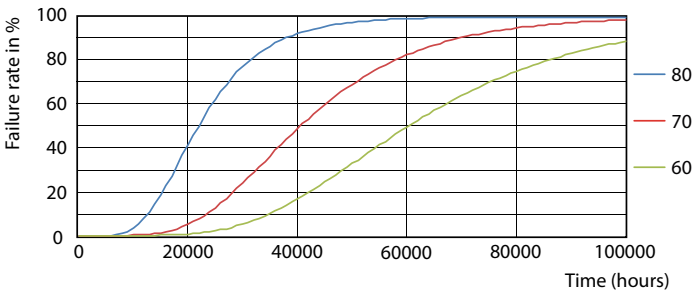
LEDtube\_60K



LEDtube MAS 1 23W 60K LifetimeVsTc-LED

Master Value LEDtube Universal T8

Lifetime



LEDtube MAS 1 23W 60K FailureRate-LED

