



# MASTER Value LED tube EM/Mains T8



## MAS LEDtube VLE 1500mm HO 20.5W 830 T8

MASTER Value, LEDtube, T8, EM/Mains, 1500 mm, 220-240 V, 20.5 W, 58W TL-D, 3000 K, 2900 lm, CRI 80, 60000 hour(s)

MASTER Value, LEDtube, T8, EM/Mains, 1500 mm, 220-240 V, 20.5 W, LED alternative to 58W TL-D, 3000 K, 2900 lm, CRI 80, 60000 hour(s), 141.00 lm/W, EEL D, G13, Beam angle 190 degree(s), Glass, 1500 mm, RGO, SDCM 6, PF 0.9, IP20, SVM 0.4, PstLM 1

### Product data

| General Information                   |                    |
|---------------------------------------|--------------------|
| Cap-Base                              | G13                |
| Nominal lifetime                      | 60,000 hour(s)     |
| Switching Cycle                       | 200,000            |
| Lighting Technology                   | LEDtube            |
| Flux measurement reference            | Sphere             |
| Light Technical                       |                    |
| Color Code                            | 830 [CCT of 3000K] |
| Beam Angle (Nom)                      | 190 degree(s)      |
| Luminous Flux                         | 2,900 lm           |
| Color Designation                     | White (WH)         |
| Correlated Color Temperature (Nom)    | 3000 K             |
| Luminous Efficacy (rated) (Nom)       | 141.00 lm/W        |
| Color Consistency                     | <6                 |
| Color rendering index (CRI)           | 80                 |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %               |

| Photobiological safety according to EN 62471                                 | RGO         |
|------------------------------------------------------------------------------|-------------|
| Operating and Electrical                                                     |             |
| Line Frequency                                                               | 50 to 60 Hz |
| Input Frequency                                                              | 50 to 60 Hz |
| Power Consumption                                                            | 20.5 W      |
| Lamp Current (Max)                                                           | 97 mA       |
| Lamp Current (Min)                                                           | 89 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                                    | 58W TL-D    |
| Inrush current at mains                                                      | 8.2         |
| Max. lamp no. on MCB B type 10A - Mains                                      | 75          |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 75          |

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|                                                                              |          |
|------------------------------------------------------------------------------|----------|
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 10       |
| Max. lamp no. on MCB B type 16A – Mains                                      | 120      |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 120      |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 16       |
| Ballast Compatibility                                                        | EM/Mains |

### Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 65 °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) | 0.270 kg |

### Approval and Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| Energy Efficiency Class | D                                                       |
| Energy Saving Product   | Yes                                                     |
| Approval Marks          | RoHS compliance TUV CE marking<br>KEMA Keur certificate |

|                                                                 |                 |
|-----------------------------------------------------------------|-----------------|
| Energy Consumption kWh/1000 h                                   | 21 kWh          |
| EPREL Registration Number                                       | 1095868         |
| 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 °C to 45 °C |

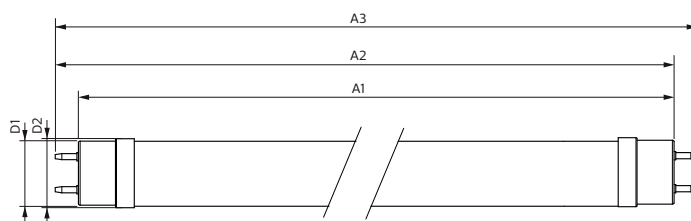
### Application Conditions

|                     |                |
|---------------------|----------------|
| Wireless Technology | Not applicable |
|---------------------|----------------|

### Product Data

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Order product name              | MAS LEDtube VLE 1500mm HO<br>20.5W 830 T8 |
| Full product name               | MAS LEDtube VLE 1500mm HO<br>20.5W 830 T8 |
| Full product code               | 871869964691200                           |
| Order code                      | 929002021702                              |
| Material Nr. (12NC)             | 929002021702                              |
| Numerator – Quantity Per Pack   | 1                                         |
| EAN/UPC – Product/Case          | 8718699646912                             |
| Numerator – Packs per outer box | 10                                        |
| EAN/UPC – Case                  | 8718699646929                             |

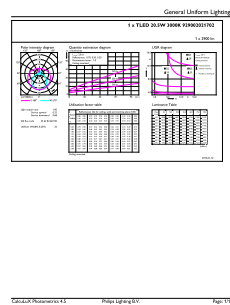
## Dimensional drawing



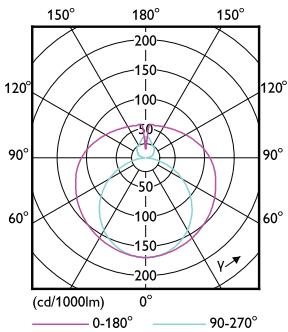
| Product                                   | D1      | D2    | A1         | A2         | A3         |
|-------------------------------------------|---------|-------|------------|------------|------------|
| MAS LEDtube VLE 1500mm HO<br>20.5W 830 T8 | 25.8 mm | 28 mm | 1,498.7 mm | 1,505.8 mm | 1,512.9 mm |

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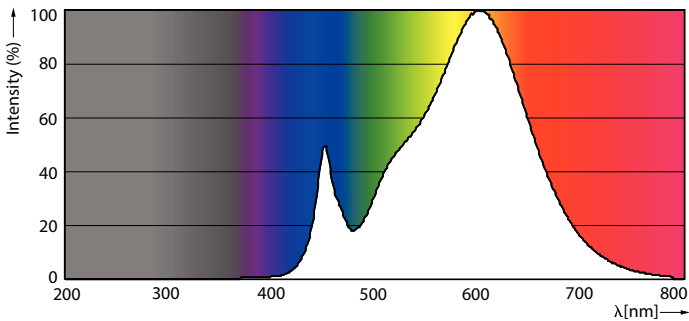
Photometric data



General uniform lighting - MAS LEDtube VLE 1500mm HO 20.5W 830 T8

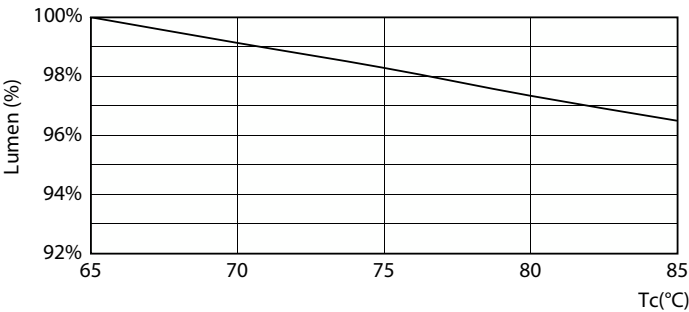


Light Distribution Diagram - MAS LEDtube VLE 1500mm HO 20.5W 830 T8

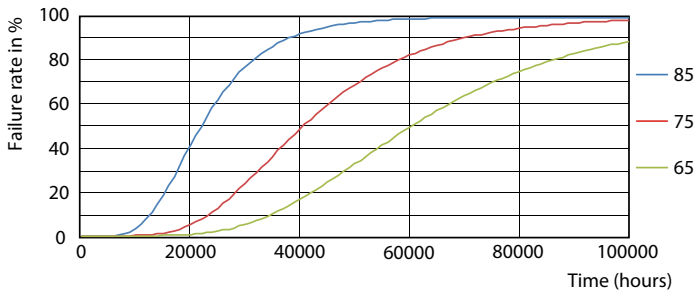


Spectral Power Distribution Colour - MAS LEDtube VLE 1500mm HO 20.5W 830 T8

Lifetime



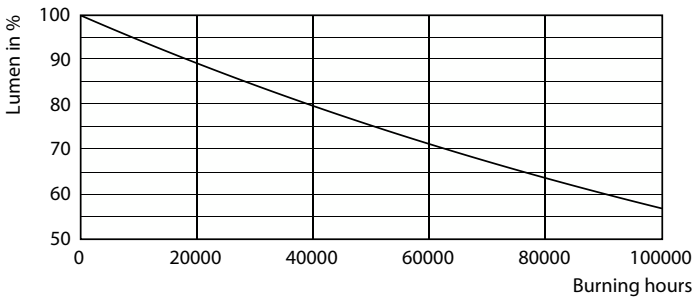
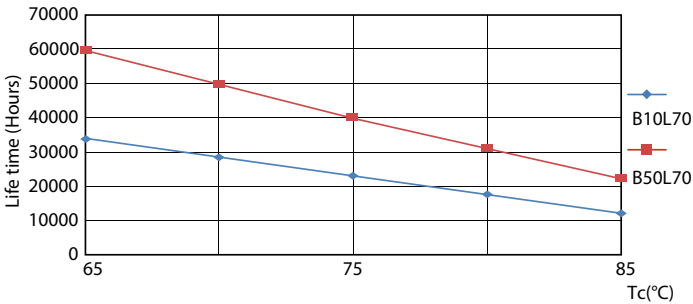
Lumen Maintenance Diagram - MAS LEDtube VLE 1500mm HO 20.5W 830 T8



FailureRate

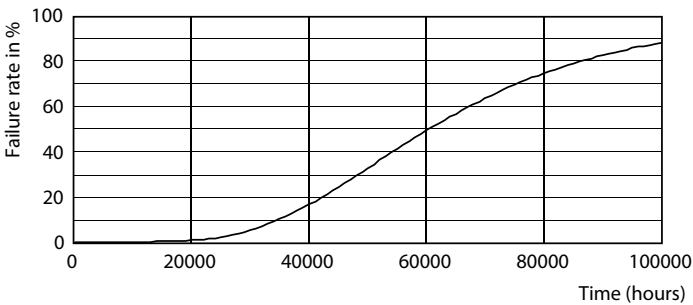
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Lifetime



LifetimeVsTc

Lumen Maintenance Diagram - MAS LEDtube VLE 1500mm HO 20.5W 830 T8



Life Expectancy Diagram

