



# MASTER LEDtube T8 Ultra Efficient



## MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

With energy prices rising and the EU's Green Deal<sup>2</sup> continuing to fund energy efficient building renovations, many are looking into make their company's lighting more sustainable. The new Philips MASTER LEDtube Ultra Efficient T8 is a true breakthrough on the way to more sustainable lighting. It replaces your current fluorescent tube or LED tube directly and offers immediately great energy cost reduction as well as a much longer lifetime!

### Product data

| General Information              |                                                |
|----------------------------------|------------------------------------------------|
| Cap base                         | G13 ROT (Rotating) [Medium Bi-Pin Fluorescent] |
| Nominal lifetime                 | 100,000 h                                      |
| Switching Cycle                  | 200,000                                        |
| Lighting Technology              | LED                                            |
| Flux measurement reference       | Sphere                                         |
| CE mark                          | Yes                                            |
| EU RoHS compliant                | Yes                                            |
| Light Technical                  |                                                |
| Colour Code                      | 840 [CCT of 4000K]                             |
| Beam angle (nom.)                | 160 degree(s)                                  |
| Luminous Flux                    | 3,700 lm                                       |
| Colour designation               | Cool White (CW)                                |
| Correlated Colour Temperature    | 4000 K                                         |
| Luminous efficacy (rated) (nom.) | 210 lm/W                                       |
| Colour consistency               | <6                                             |
| Colour rendering index (CRI)     | 80                                             |

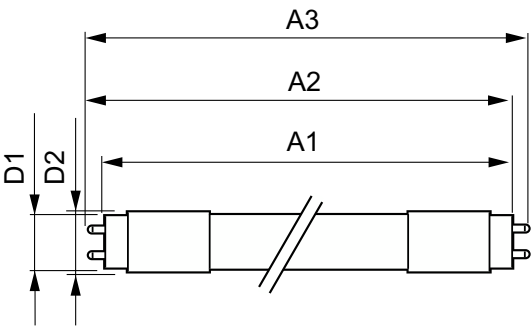
| LLMF at end of nominal lifetime (nom.)           | 70 %          |
|--------------------------------------------------|---------------|
| Flickering value (PstLM)                         | 1             |
| Stroboscopic effect                              | 0.4           |
| Photobiological safety according to EN 62471 RGO |               |
| Operating and Electrical                         |               |
| Line Frequency                                   | 50 to 60 Hz   |
| Input frequency                                  | 50 to 60 Hz   |
| Power Consumption                                | 17.6 W        |
| Starting time (nom.)                             | 1 s           |
| Warm-up time to 60% light                        | 1 s           |
| Power Factor (Fraction)                          | 0.9           |
| Voltage (nom.)                                   | 220-240 V     |
| LED alternative to fluorescent lamp power        | 58 W          |
| Temperature                                      |               |
| Ambient temperature range                        | -20°C to 45°C |
| T-Case maximum (nom.)                            | 45 °C         |

# MASTER LEDtube T8 Ultra Efficient

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Controls and Dimming               |                                                         |
| Dimmable                           | No                                                      |
| Mechanical and Housing             |                                                         |
| Lamp Finish                        | Frosted                                                 |
| Bulb material                      | Plastic                                                 |
| Product length                     | 1,500 mm                                                |
| Bulb shape                         | Tube, double-ended                                      |
| Approval and Application           |                                                         |
| Energy Efficiency Class            | A                                                       |
| Energy-saving product              | Yes                                                     |
| Approval marks                     | RoHS compliance TUV CE marking KEMA<br>Keur certificate |
| Energy consumption kWh/1,000 hours | 18 kWh                                                  |
| EPREL registration number          | 1013081                                                 |

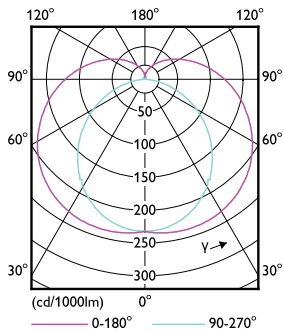
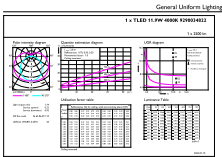
|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Product Data                      |                                            |
| Full EOC                          | 871951443168300                            |
| Order product name                | MAS LEDtube 1500mm UE 17.6W 840 T8<br>EELA |
| Order code                        | 43168300                                   |
| SAP numerator – quantity per pack | 1                                          |
| Numerator – packs per outer box   | 10                                         |
| Material number (12NC)            | 929003482302                               |
| Full product name                 | MAS LEDtube 1500mm UE 17.6W 840 T8<br>EELA |
| EAN/UPC – Case                    | 8719514431690                              |
| EAN/UPC – Product/Case            | 8719514431683                              |

## Dimensional drawing



| Product                                    | D1      | D2    | A1         | A2         | A3       |
|--------------------------------------------|---------|-------|------------|------------|----------|
| MAS LEDtube 1500mm UE 17.6W<br>840 T8 EELA | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |

## Photometric data

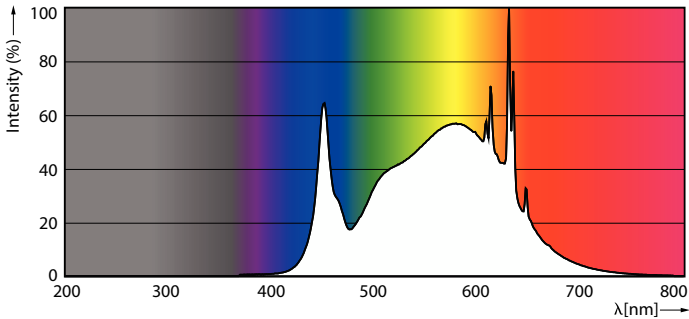


General uniform lighting - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

Light Distribution Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

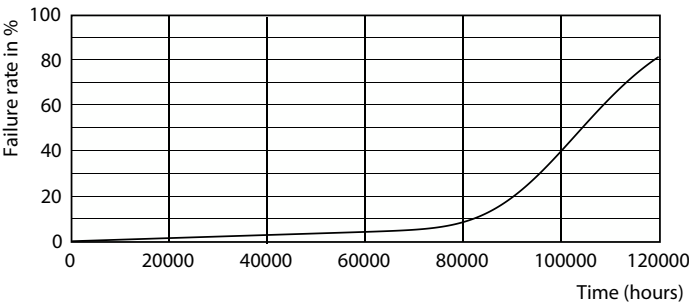
MASTER LEDtube T8 Ultra Efficient

Photometric data

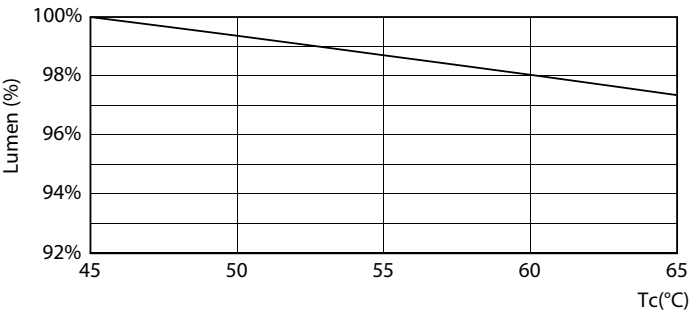


Spectral Power Distribution Colour - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

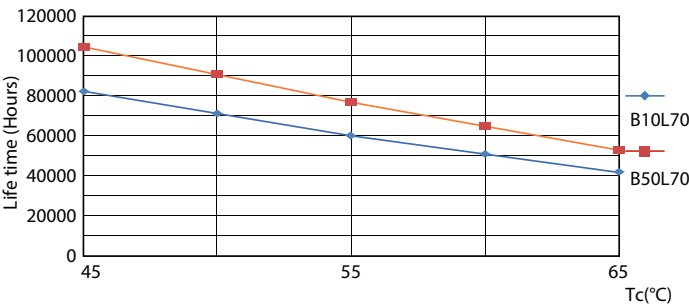
Lifetime



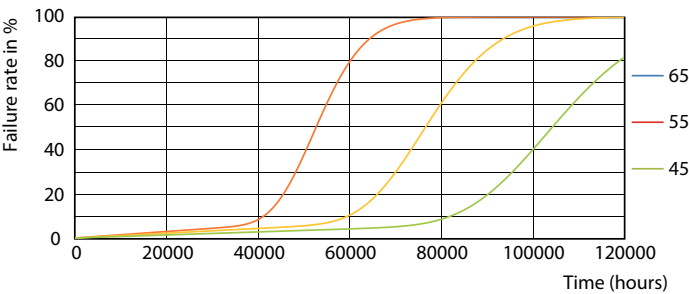
Life Expectancy Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA



Lumen Maintenance Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA



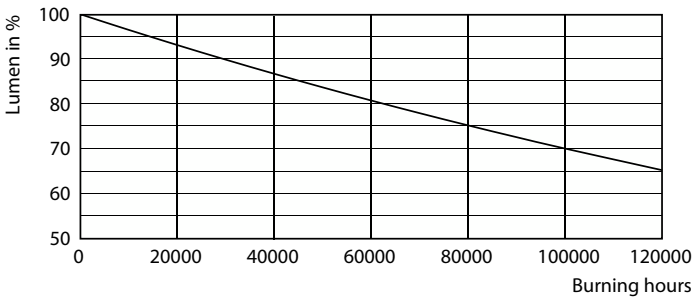
Life Expectancy Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA



Life Expectancy Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

MASTER LEDtube T8 Ultra Efficient

Lifetime



Lumen Maintenance Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8  
EELA

