



# MASTER LED tube T8 UltraEfficient with Recycled Plastic



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

MASTER, LEDtube, T8, EM/Mains, 1500 mm, 17.6 W, 58W TL-D, 4000 K, 3700 lm, CRI 80, 100000 hour(s)

MASTER, LEDtube, T8, EM/Mains, 1500 mm, 17.6 W, LED alternative to 58W TL-D, 4000 K, 3700 lm, CRI 80, 100000 hour(s), 210 lm/W, EEL A, G13 Rotatable end-cap, Beam angle 160 degree(s), Plastic, 40 %, 1500 mm, RGO, SDCM 6, PF 0.9, IP20, SVM 0.1, PstLM 0.1

### Product data

| General Information                |                       |
|------------------------------------|-----------------------|
| Cap-Base                           | G13 Rotatable end-cap |
| Nominal lifetime                   | 100,000 hour(s)       |
| Switching Cycle                    | 200,000               |
| Lighting Technology                | LEDtube               |
| Flux measurement reference         | Sphere                |
| Warranty period                    | 10 years              |
| Light Technical                    |                       |
| Color Code                         | 840 [CCT of 4000K]    |
| Beam Angle (Nom)                   | 160 degree(s)         |
| Luminous Flux                      | 3,700 lm              |
| Color Designation                  | Cool White (CW)       |
| Correlated Color Temperature (Nom) | 4000 K                |

| Luminous Efficacy (rated) (Nom)              | 210 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                            | 17.6 W      |
| Lamp Current (Max)                           | 93 mA       |
| Lamp Current (Min)                           | 73 mA       |
| Starting Time (Nom)                          | 0.5 s       |
| Warm-up time to 60% light                    | 0.5 s       |

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|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| Power Factor (Fraction)                                                      | 0.9       |
| Voltage (Nom)                                                                | 220-240 V |
| LED alternative to fluorescent lamp power                                    | 58W TL-D  |
| Inrush current at mains                                                      | 5         |
| Max. lamp no. on MCB B type 10A – Mains                                      | 80        |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 80        |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 10        |
| Max. lamp no. on MCB B type 16A – Mains                                      | 130       |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 130       |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 16        |
| Ballast Compatibility                                                        | EM/Mains  |

Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 45 °C |
|----------------------|-------|

Controls and Dimming

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

Mechanical and Housing

|                    |          |
|--------------------|----------|
| Bulb Finish        | Frosted  |
| Bulb Material      | Plastic  |
| Product Length     | 1,500 mm |
| Bulb Shape         | T8       |
| Net Weight (Piece) | 0.285 kg |

Approval and Application

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

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| Energy Consumption kWh/1000 h                                   | 18 kWh         |
| EPREL Registration Number                                       | 2102397        |
| CE mark                                                         | Yes            |
| EU RoHS compliant                                               | Yes            |
| LED Innovations                                                 | UltraEfficient |
| Flickering value (PstLM) – Flickering value as per EN 61000-3-3 | 0.1            |
| Stroboscopic effect visibility measure (SVM)                    | 0.1            |
| Ambient temperature range                                       | -20 to +45 °C  |
| Post-consumer recycled plastic material ratio                   | 40 %           |

Application Conditions

|                                     |                |
|-------------------------------------|----------------|
| can it be used in closed luminaires | Yes            |
| Wireless Technology                 | Not applicable |

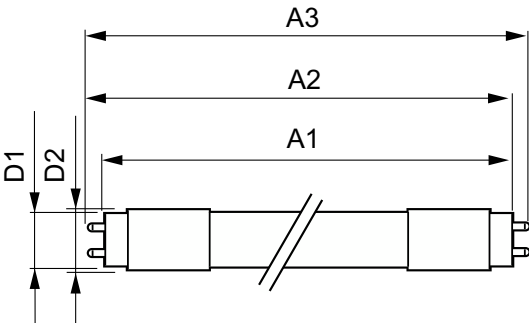
Sustainability Data

|                                   |                |
|-----------------------------------|----------------|
| Sustainability rating             | Signify Circle |
| Product non-virgin material ratio | 25.3 %         |

Product Data

|                                 |                                            |
|---------------------------------|--------------------------------------------|
| Order product name              | MAS LEDtube 1500mm UE 17.6W<br>840 T8 EELA |
| Full product name               | MAS LEDtube 1500mm UE 17.6W<br>840 T8 EELA |
| Full product code               | 871951443168300                            |
| Order code                      | 929003482302                               |
| Material Nr. (12NC)             | 929003482302                               |
| Numerator - Quantity Per Pack   | 1                                          |
| EAN/UPC - Product/Case          | 8719514431683                              |
| Numerator - Packs per outer box | 10                                         |
| EAN/UPC - Case                  | 8719514431690                              |

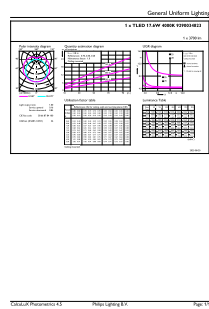
Dimensional drawing



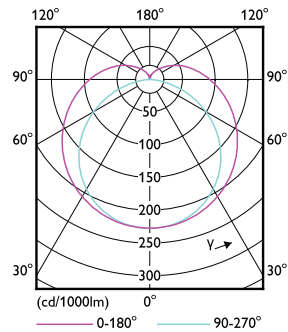
| Product                                    | D1      | D2    | A1         | A2         | A3       |
|--------------------------------------------|---------|-------|------------|------------|----------|
| MAS LEDtube 1500mm UE 17.6W<br>840 T8 EELA | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513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

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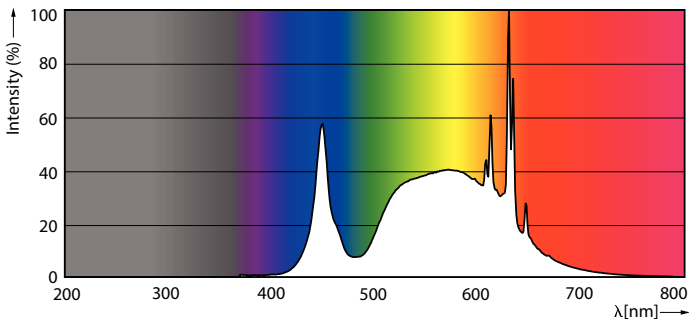
Photometric data



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

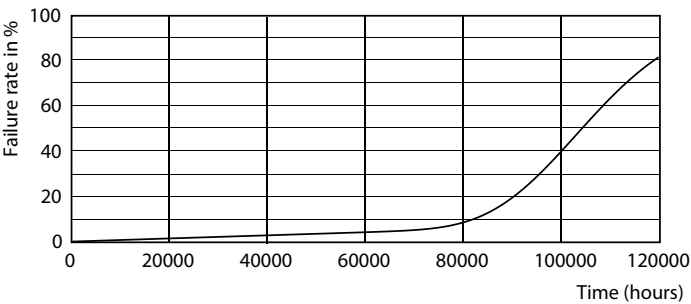


Light Distribution Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

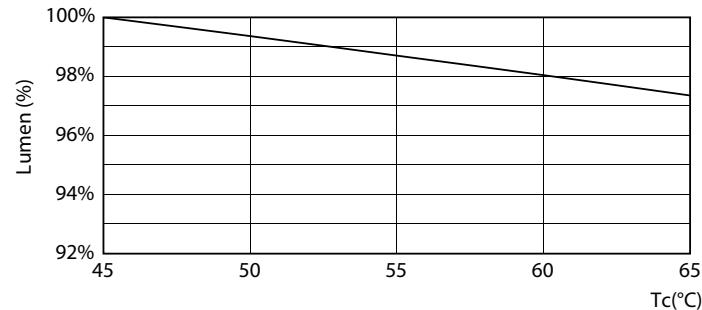


Spectral Power Distribution Colour - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

Lifetime



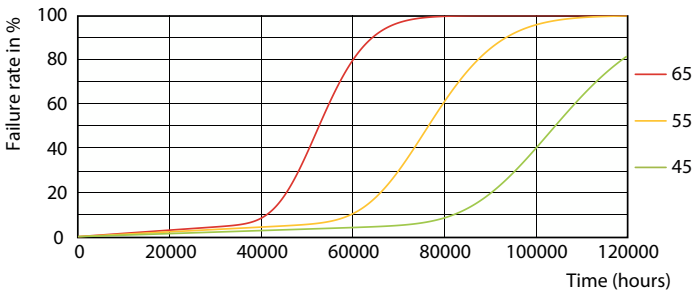
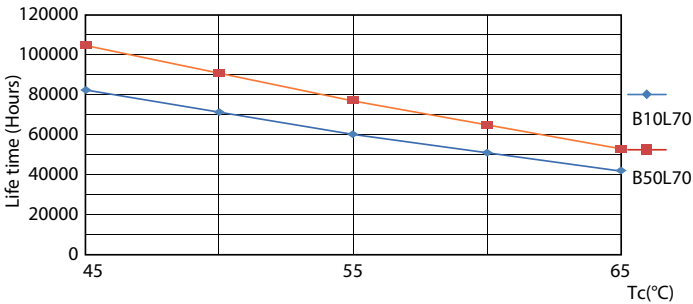
Life Expectancy Diagram



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

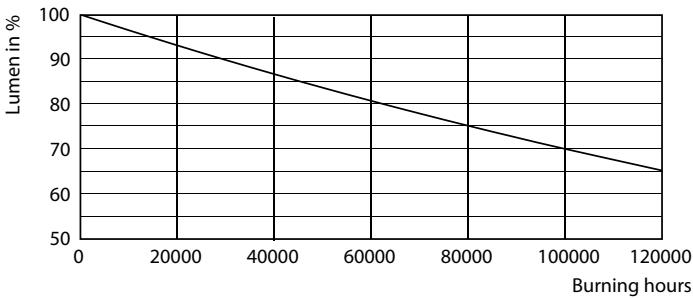
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Lifetime



LifetimeVsTc

LEDtube-100K-4565-FailureRate-LED



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