PHILIPS

**MAS LEDtube HF 1200mm HE 16.5W 840 T5**

929001391102




# MASTER, LEDtube, T5, HF, 1200 mm, 16.5 W, 28W TL5 HE, 4000 K, 2500 lm, CRI 80, 60000 hour(s)




MASTER, LEDtube, T5, HF, 1200 mm, 16.5 W, LED alternative to 28W TL5 HE, 4000 K, 2500 lm, CRI 80, 60000 hour(s), 151 lm/W, EEL D, G5, Beam angle 200 degree(s), Glass, 1200 mm, RG0, SDCM 6, PF 0.92, IP20

## General Information

| | |
|---|---|
| Cap-Base | G5 |
| Nominal lifetime | 60,000 hour(s) |
| Switching Cycle | 50,000 |
| Lighting Technology | LEDtube |
| Flux measurement reference | Sphere |
| Warranty period | 5 years |

## Light Technical

| | |
|---|---|
| Color Code | 840 [CCT of 4000K] |
| Beam Angle (Nom) | 200 degree(s) |
| Luminous Flux | 2,500 lm |
| Color Designation | Cool White (CW) |
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 151 lm/W |
| Color Consistency | <6 |
| Color rendering index (CRI) | 80 |
| LLMF At End Of Nominal Lifetime (Nom) | 70 % |
| Photobiological safety according to EN 62471 | RG0 |

## Operating and Electrical

| | |
|---|---|
| Line Frequency | 30K to 100K Hz |
| Input Frequency | 30K to 100K Hz |
| Power Consumption | 16.5 W |
| Lamp Current (Max) | 350 mA |
| Lamp Current (Min) | 150 mA |
| Starting Time (Nom) | 0.5 s |
| Warm-up time to 60% light | 0.5 s |
| Power Factor (Fraction) | 0.92 |
| Voltage (Nom) | 70-120 V |
| LED alternative to fluorescent lamp power | 28W TL5 HE |
| Inrush current at mains | - |
| Max. lamp no. on MCB B type 10A - Mains | - |

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

## Temperature

| | |
|---|---|
| T-Case Maximum (Nom) | 65 °C |

## Controls and Dimming

| | |
|---|---|
| Dimmable | Yes - Check ballast compatibility |

## Mechanical and Housing

| | |
|---|---|
| Bulb Finish | Frosted |
| Bulb Material | Glass |
| Product Length | 1,200 mm |
| Bulb Shape | T5 |
| Net Weight (Piece) | 0.160 kg |

## Approval and Application

| | |
|---|---|
| Energy Efficiency Class | D |
| Energy Saving Product | Yes |
| Approval Marks | RoHS compliance |
| Energy Consumption kWh/1000 h | 17 kWh |
| EPREL Registration Number | 1384135 |
| CE mark | Yes |
| EU RoHS compliant | Yes |
| Ambient temperature range | -20 °C to 45 °C |

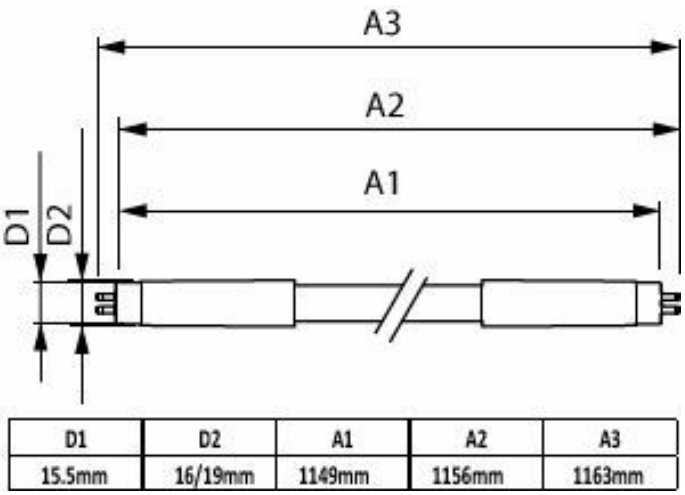
## Application Conditions

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

## Product Data

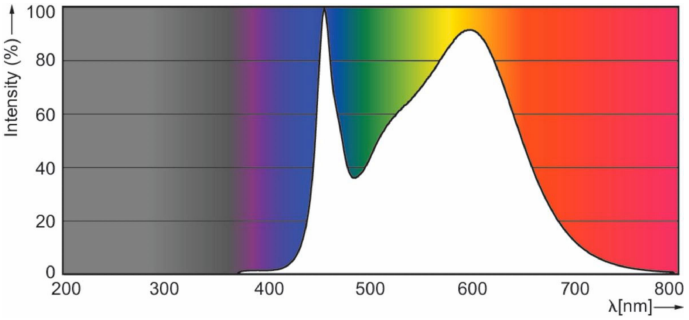
| | |
|---|---|
| Order product name | MAS LEDtube HF 1200mm HE 16.5W 840 T5 |
| Full product name | MAS LEDtube HF 1200mm HE 16.5W 840 T5 |
| Full product code | 871869674331700 |
| Order code | 929001391102 |
| Material Nr. (12NC) | 929001391102 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8718696743317 |
| Numerator - Packs per outer box | 10 |
| EAN/UPC - Case | 8718696743324 |

## Dimensional drawing

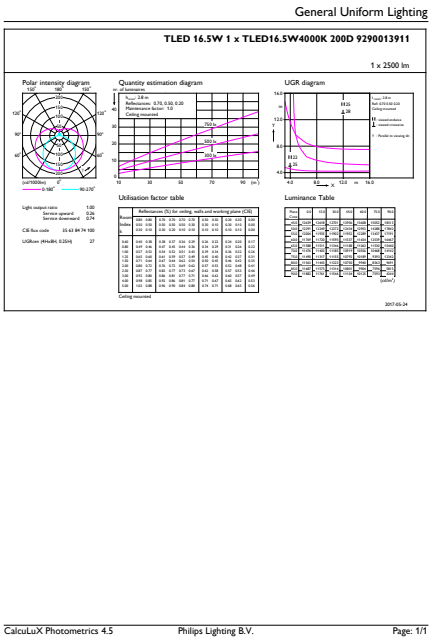



| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| MAS LEDtube HF 1200mm HE 16.5W 840 T5 | 15.5 mm | 16/19 mm | 1,149 mm | 1,156 mm | 1,163 mm |

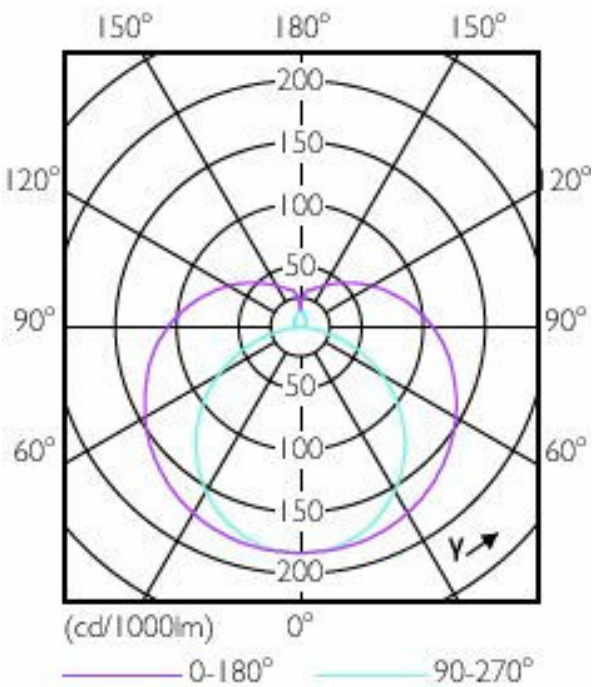
## Photometric data




Spectral Power Distribution Colour - MAS LEDtube HF 1200mm HE 16.5W 840 T5

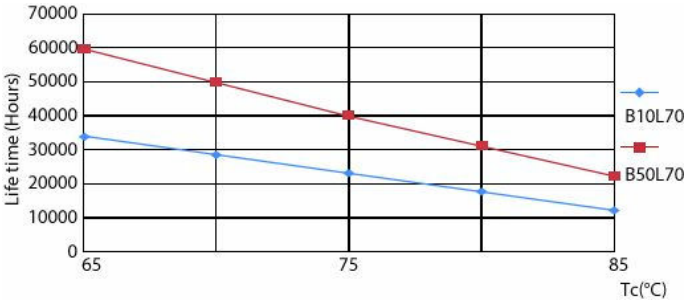



General uniform lighting - MAS LEDtube HF 1200mm HE 16.5W 840 T5

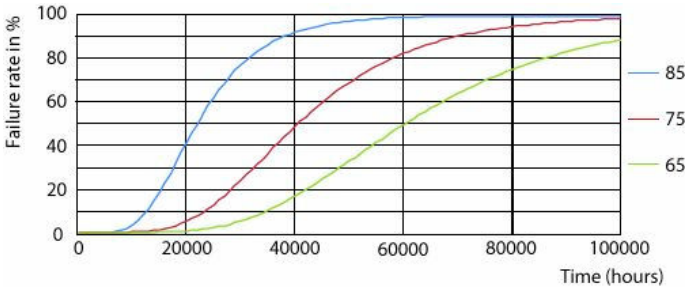



Light Distribution Diagram - MAS LEDtube HF 1200mm HE 16.5W 840 T5

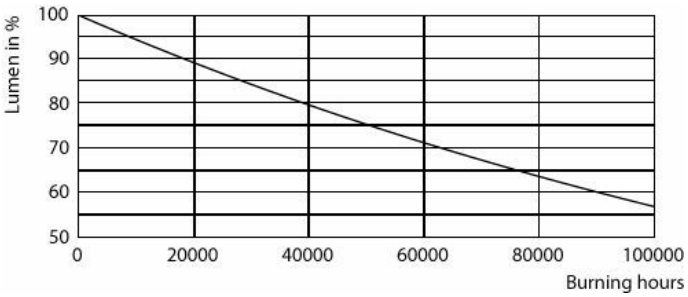
## Lifetime



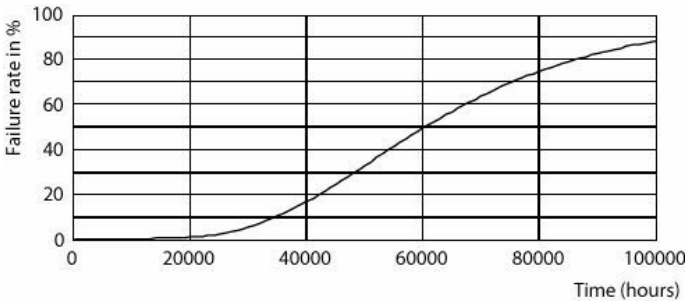

LifetimeVsTc



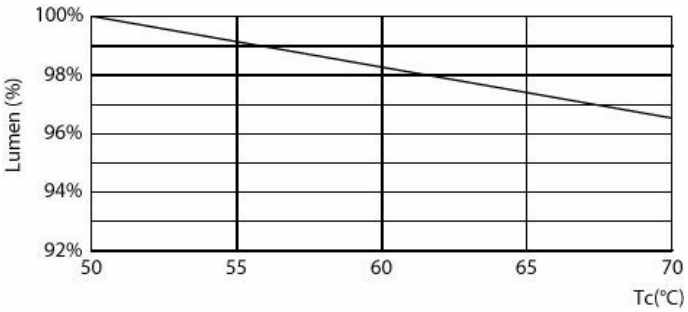

FailureRate




Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HE 16.5W 840 T5




Life Expectancy Diagram




Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HE 16.5W 840 T5

## Related Documents

| Documents and certificates | Document Name | Download |
|---|---|---|
| Environmental Product Declaration | Philips-MASTER-LEDtube-Mains-T5-COMF-3493011-Ref-929001391102-EPD.pdf | Download |
| Installation Instructions | LEDtube_Installation_Guide_HF_2-INI.pdf | Download |

| Photometry and lighting design | Document Name | Download |
|---|---|---|
| IES File | LEDtube_1200mm_16-5W_G5_840_2500lm-IES.ies | Download |

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