



# MASTER LED tube InstantFit HF T5



## MAS LEDtube HF 900mm HE 11.5W 865 T5

MASTER, LEDtube, T5, HF, 900 mm, 11.5 W, 21W TL5 HE, 6500 K, 1700 lm, CRI 80, 60000 hour(s)

MASTER, LEDtube, T5, HF, 900 mm, 11.5 W, LED alternative to 21W TL5 HE, 6500 K, 1700 lm, CRI 80, 60000 hour(s), 147 lm/W, EEL D, G5, Beam angle 200 degree(s), Glass, 900 mm, RG0, SDCM 6, PF 0.9, IP20

### Product data

| 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                            | 865 [CCT of 6500K] |
| Beam Angle (Nom)                      | 200 degree(s)      |
| Luminous Flux                         | 1,700 lm           |
| Color Designation                     | Cool Daylight      |
| Correlated Color Temperature (Nom)    | 6500 K             |
| Luminous Efficacy (rated) (Nom)       | 147 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                                                            | 11.5 W         |
| Lamp Current (Max)                                                           | 420 mA         |
| Lamp Current (Min)                                                           | 130 mA         |
| Starting Time (Nom)                                                          | 0.5 s          |
| Warm-up time to 60% light                                                    | 0.5 s          |
| Power Factor (Fraction)                                                      | 0.9            |
| Voltage (Nom)                                                                | 60-100 V       |
| LED alternative to fluorescent lamp power                                    | 21W 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. | -              |

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|                                                                              |    |
|------------------------------------------------------------------------------|----|
| 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) | 55 °C |
|----------------------|-------|

Controls and Dimming

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

Mechanical and Housing

|                    |          |
|--------------------|----------|
| Bulb Finish        | Frosted  |
| Bulb Material      | Glass    |
| Product Length     | 900 mm   |
| Bulb Shape         | T5       |
| Net Weight (Piece) | 0.115 kg |

Approval and Application

|                         |     |
|-------------------------|-----|
| Energy Efficiency Class | D   |
| Energy Saving Product   | Yes |

|                               |                                       |
|-------------------------------|---------------------------------------|
| Approval Marks                | RoHS compliance KEMA Keur certificate |
| Energy Consumption kWh/1000 h | 12 kWh                                |
| EPREL Registration Number     | 1407665                               |
| CE mark                       | Yes                                   |
| EU RoHS compliant             | Yes                                   |
| Ambient temperature range     | -20 °C to 45 °C                       |

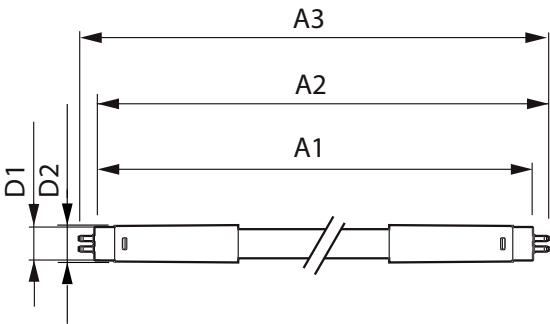
Application Conditions

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

Product Data

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Order product name              | MAS LEDtube HF 900mm HE 11.5W 865 T5 |
| Full product name               | MAS LEDtube HF 900mm HE 11.5W 865 T5 |
| Full product code               | 872016916323200                      |
| Order code                      | 929003597002                         |
| Material Nr. (12NC)             | 929003597002                         |
| Numerator - Quantity Per Pack   | 1                                    |
| EAN/UPC - Product/Case          | 8720169163232                        |
| Numerator - Packs per outer box | 10                                   |
| EAN/UPC - Case                  | 8720169163249                        |

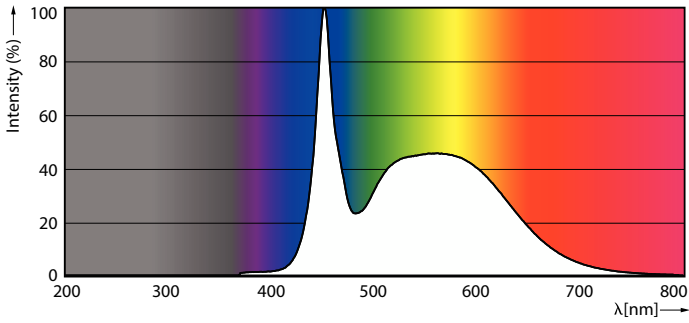
Dimensional drawing



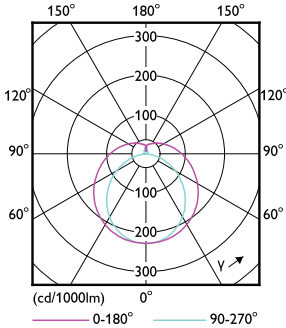
| Product                              | D1      | D2       | A1     | A2     | A3     |
|--------------------------------------|---------|----------|--------|--------|--------|
| MAS LEDtube HF 900mm HE 11.5W 865 T5 | 15.5 mm | 16/19 mm | 849 mm | 856 mm | 863 mm |

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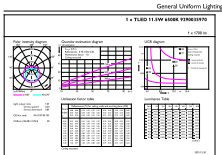
Photometric data



Spectral Power Distribution Colour - MAS LEDtube HF 900mm HE 11.5W 865 T5



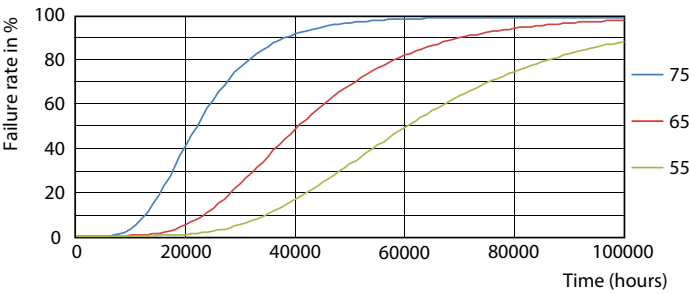
Light Distribution Diagram - MAS LEDtube HF 900mm HE 11.5W 865 T5



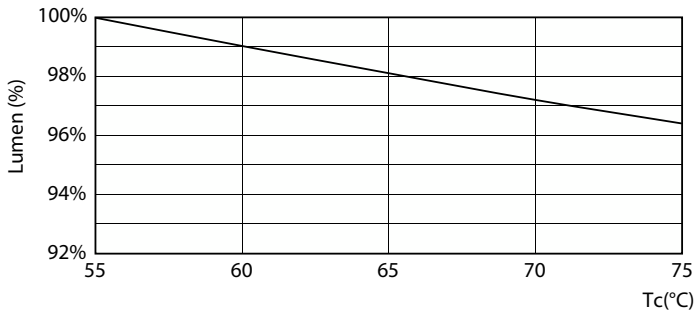
General Uniform Lighting

General uniform lighting - MAS LEDtube HF 900mm HE 11.5W 865 T5

Lifetime



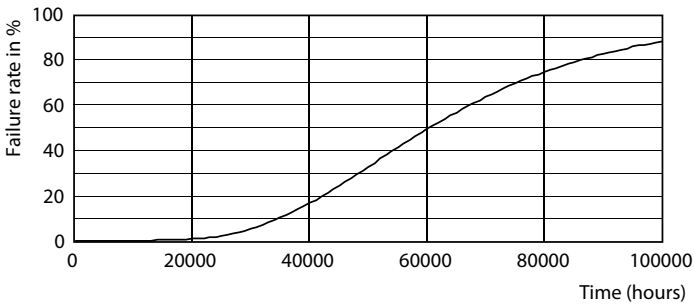
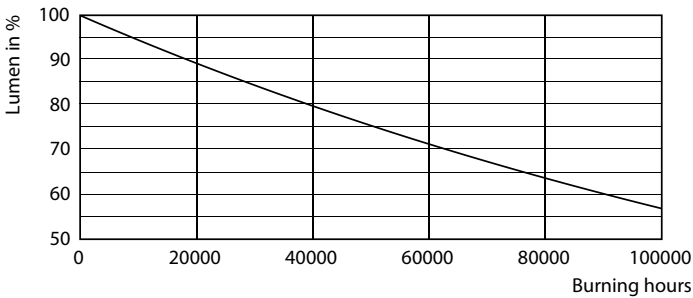
FailureRate



Lumen Maintenance Diagram - MAS LEDtube HF 900mm HE 11.5W 865 T5

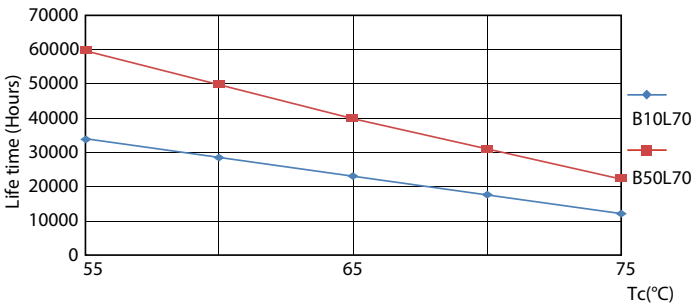
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 900mm HE 11.5W 865 T5

Life Expectancy Diagram



LifetimeVsTc

