



# MAS LEDtube HF 900mm HE 11.5W 830 T5

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance, which cannot be distinguished from traditional fluorescent. These T5 lighting tubes are the right choice for absolute performance and are designed to stand up to everyday conditions. Unparalleled savings thanks to low energy consumption and an exceptionally long lifetime make these T5 LED tubes the choice for every demanding application.

### **Product data**

| Operating and Electrical   |                                       |  |  |  |
|----------------------------|---------------------------------------|--|--|--|
| Line Frequency             | 30K to 100K Hz                        |  |  |  |
| Input Frequency            | 30K to 100K Hz                        |  |  |  |
| Power Consumption          | 11.5 W                                |  |  |  |
| 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                              |  |  |  |
|                            |                                       |  |  |  |
| General Information        |                                       |  |  |  |
| Cap-Base                   | G5 [G5]                               |  |  |  |
| CE mark                    | Yes                                   |  |  |  |
| EU RoHS compliant          | Yes                                   |  |  |  |
| Nominal lifetime           | 60,000 hour(s)                        |  |  |  |
| Switching Cycle            | 50,000                                |  |  |  |
| Lighting Technology        | LED                                   |  |  |  |
| Flux measurement reference | Sphere                                |  |  |  |
| ·                          | · · · · · · · · · · · · · · · · · · · |  |  |  |

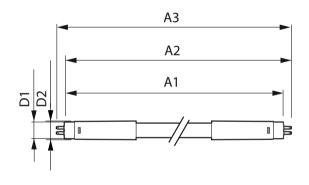
| Brand                                 | Philips            |  |  |  |
|---------------------------------------|--------------------|--|--|--|
|                                       |                    |  |  |  |
| Light Technical                       |                    |  |  |  |
| Color Code                            | 830 [CCT of 3000K] |  |  |  |
| Beam Angle (Nom)                      | 200 degree(s)      |  |  |  |
| Luminous Flux                         | 1,600 lumen        |  |  |  |
| Color Designation                     | White (WH)         |  |  |  |
| Correlated Color Temperature (Nom)    | 3000 K             |  |  |  |
| Luminous Efficacy (rated) (Nom)       | 139 lm/W           |  |  |  |
| Color Consistency                     | <6                 |  |  |  |
| Color rendering index (CRI)           | 80                 |  |  |  |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %               |  |  |  |
|                                       |                    |  |  |  |
| Temperature                           |                    |  |  |  |
| Ambient temperature range             | -20 °C to 45 °C    |  |  |  |
| T-Case Maximum (Nom)                  | 55 °C              |  |  |  |
|                                       |                    |  |  |  |

Datasheet, 2023, May 1 data subject to change

| Controls and Dimming          |   |  |  |  |  |
|-------------------------------|---|--|--|--|--|
| Dimmable                      | Yes - Check ballast compatibility       |  |  |  |  |
|                               |   |  |  |  |  |
| Mechanical and Housing        |   |  |  |  |  |
| Bulb Finish                   | Frosted                                 |  |  |  |  |
| Bulb Material                 | Glass                                   |  |  |  |  |
| Product Length                | 900 mm                                  |  |  |  |  |
| Bulb Shape                    | Tube, double-ended                      |  |  |  |  |
|                               |   |  |  |  |  |
| Approval and Application      |   |  |  |  |  |
| Energy Saving Product         | Yes                                     |  |  |  |  |
| Approval Marks                | RoHS compliance TUV CE marking KEMA Keu |  |  |  |  |
|                               | certificate                             |  |  |  |  |
| Energy Consumption kWh/1000 h | 12 kWh                                  |  |  |  |  |
|                               |   |  |  |  |  |

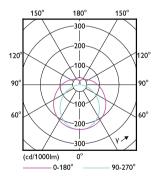
| Product Data                    |                                      |  |  |  |  |
|---------------------------------|--------------------------------------|--|--|--|--|
| Full product code               | 872016916319500                      |  |  |  |  |
| Order product name              | MAS LEDtube HF 900mm HE 11.5W 830 T5 |  |  |  |  |
| Order code                      | 929003596802                         |  |  |  |  |
| Local order code                | MTHFT51190HE830                      |  |  |  |  |
| Numerator - Quantity Per Pack   | 1                                    |  |  |  |  |
| Numerator - Packs per outer box | 10                                   |  |  |  |  |
| Material number (12NC)          | 929003596802                         |  |  |  |  |
| Net weight                      | 0.115 kg                             |  |  |  |  |
| Full product name               | MAS LEDtube HF 900mm HE 11.5W 830 T5 |  |  |  |  |
| EAN/UPC - Case                  | 8720169163201                        |  |  |  |  |
|                                 |                                      |  |  |  |  |

# Dimensional drawing

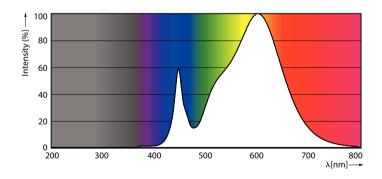


| Product                       | D1      | D2       | A1     | A2     | A3     |
|-------------------------------|---------|----------|--------|--------|--------|
| MAS LEDtube HF 900mm HE 11.5W | 15.5 mm | 16/19 mm | 849 mm | 856 mm | 863 mm |
| 830 T5                        |         |          |        |        |        |

## Photometric data

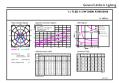






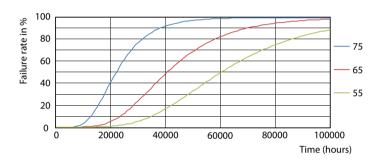
Spectral Power Distribution Colour

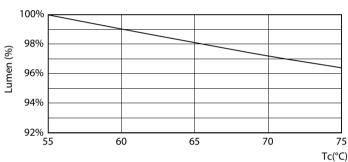
## Photometric data



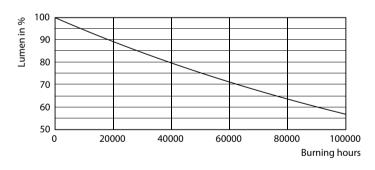
Calculus Photometrics 4.5 Philips Lighting R.V. Page: 11

## Lifetime

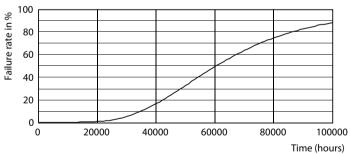




# Life Expectancy Diagram



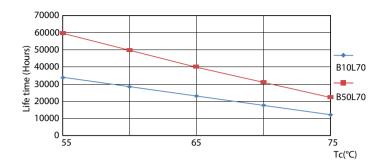
Lumen Maintenance Diagram



Lumen Maintenance Diagram - MAS LEDtube HF 900mm HE 11.5W 830 T5

Life Expectancy Diagram - MAS LEDtube HF 900mm HE 11.5W 830 T5

## Lifetime



Life Expectancy Diagram



© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.