



# MASTER - LED HID SON-T - Ultra Efficient

## MAS LED SON-T UE M 8Klm 42.8W 727 E40

Philips MASTER - LED HID SON-T Ultra Efficient lamps are an easy LED solution with the highest efficiency to replace High-Intensity Discharge (HID) and High-Pressure Sodium (SON) lamps. MASTER – LED HID SON-T UE solutions bring the energy efficiency and long lifetime benefits of LED to HID replacement, providing instant savings for low energy costs. With the right lamp size and light distribution, you can easily use MASTER – LED HID SON-T UE lamps into existing SON and SON-T systems, enhancing the lighting quality with LED by removing the luminaire's ballast for direct Mains working, gaining additional savings.

#### **Warnings and Safety**

· Installation should always be performed by a qualified electrician or installer. Use the installation guide for instructions.

#### **Product data**

| General Information        |                |
|----------------------------|----------------|
| Cap-Base                   | E40 [E40]      |
| Nominal lifetime           | 50,000 hour(s) |
| Switching Cycle            | 50,000         |
| Lighting Technology        | LED            |
| Flux measurement reference | Sphere         |
| Value ladder               | Performance    |
| CE mark                    | Yes            |
| EU RoHS compliant          | Yes            |
|                            |                |

| Light Technical                       |                    |
|---------------------------------------|--------------------|
| Color Code                            | 727 [CCT of 2700K] |
| Beam Angle (Nom)                      | 300 degree(s)      |
| Luminous Flux                         | 8,000 lumen        |
| Color Designation                     | Warm White (WW)    |
| Correlated Color Temperature (Nom)    | 2700 K             |
| Luminous Efficacy (rated) (Nom)       | 186 lm/W           |
| Color Consistency                     | <6                 |
| Color rendering index (CRI)           | 70                 |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %               |
| Flickering value (PstLM)              | 1                  |

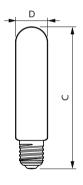
Datasheet, 2023, September 21 data subject to change

# **MASTER - LED HID SON-T - Ultra Efficient**

| Stroboscopic effect value (SVM)                  | 2             |  |
|--|---------------|--|
| Photobiological safety according to EN 62471 RG1 |               |  |
|  |               |  |
| Operating and Electrical                         |               |  |
| Line Frequency                                   | 50 to 60 Hz   |  |
| Input Frequency                                  | 50 to 60 Hz   |  |
| Power Consumption                                | 42.8 W        |  |
| Lamp Current (Nom)                               | 188 mA        |  |
| Starting Time (Nom)                              | 0.5 s         |  |
| Warm-up time to 60% light                        | 0.5 s         |  |
| Power Factor (Fraction)                          | 0.9           |  |
| Voltage (Nom)                                    | 220-240 V     |  |
| Voltage (Nom)                                    | 220 V         |  |
|  |               |  |
| Temperature                                      |               |  |
| Ambient temperature range                        | -20 to +45 °C |  |
| T-Case Maximum (Nom)                             | 44.02 °C      |  |
|  |               |  |
| Controls and Dimming                             |               |  |
| Dimmable   | No            |  |
|  |               |  |

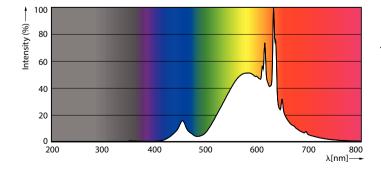
| Mechanical and Housing          |                                   |  |
|---------------------------------|-----------------------------------|--|
| Bulb Finish                     | Clear                             |  |
| Bulb Shape                      | T52 [T 52mm]                      |  |
|                                 |                                   |  |
| Approval and Application        |                                   |  |
| Energy Consumption kWh/1000 h   | 43 kWh                            |  |
|                                 |                                   |  |
| Product Data                    |                                   |  |
| Full product code               | 872016924037700                   |  |
| Order product name              | MAS LED SON-T UE M 8Klm 42.8W 727 |  |
|                                 | E40                               |  |
| Order code                      | 929003677502                      |  |
| Numerator - Quantity Per Pack   | 1                                 |  |
| Numerator - Packs per outer box | 6                                 |  |
| Material Nr. (12NC)             | 929003677502                      |  |
| Full product name               | MAS LED SON-T UE M 8Klm 42.8W 727 |  |
|                                 | E40                               |  |
| EAN/UPC - Case                  | 8720169240384                     |  |
| EAN/UPC - Product/Case          | 8720169240377                     |  |

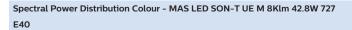
## Dimensional drawing

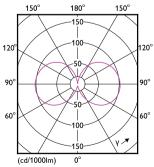


| Product                               | D     | С      |
|---------------------------------------|-------|--------|
| MAS LED SON-T UE M 8Klm 42.8W 727 E40 | 53 mm | 236 mm |

### Photometric data



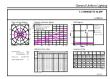




Light Distribution Diagram - MAS LED SON-T UE M 8Klm 42.8W 727 E40

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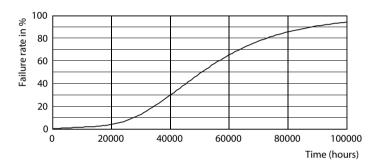
#### Photometric data

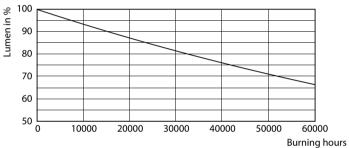


Calculat Photometric 4.5 Philips Lighting B.V. Page 1

General uniform lighting - MAS LED SON-T UE M 8Klm 42.8W 727 E40

### Lifetime





Life Expectancy Diagram - MAS LED SON-T UE M 8Klm 42.8W 727 E40

Lumen Maintenance Diagram - MAS LED SON-T UE M 8Klm 42.8W 727 E40



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