Lighting

PHILIPS



MASTER - LED HID SON-T

MAS LED SON-T IF 8.1Klm 50W 727 E40

Philips MASTER - LED HID SON-T lamps are an easy LED solution with a short payback period to replace High-Intensity Discharge (HID) and High-Pressure Sodium (SON) lamps. MASTER – LED HID SON-T solutions bring the energy efficiency and long lifetime benefits of LED to HID replacement, providing instant savings for a low initial investment. With the right lamp size and light distribution, you can easily retrofit MASTER – LED HID SON-T lamps into existing SON and SON-T systems, enhancing the lighting quality with LED without changing the luminaire's ballast (for IF replacements) or reflector.

Warnings and Safety

• Please refer to the installation guide or consult a Philips Lighting representative for the wiring diagram and instructions.

Product data

| General Information | | |
|------------------------------------|--------------------|--|
| Cap-Base | E40 | |
| Nominal lifetime | 70,000 hour(s) | |
| Switching Cycle | 50,000 | |
| Lighting Technology | LED | |
| Flux measurement reference | Sphere | |
| | | |
| Light Technical | | |
| Color Code | 727 [CCT of 2700K] | |
| Luminous Flux | 8,100 lm | |
| Color Designation | Warm White (WW) | |
| Correlated Color Temperature (Nom) | 2700 K | |
| Luminous Efficacy (rated) (Nom) | 162 lm/W | |
| Color Consistency | <6 | |

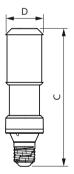
| Color rendering index (CRI) | 70 |
|--|----------|
| LLMF At End Of Nominal Lifetime (Nom) | 70 % |
| Photobiological safety according to EN 62471 | RG1 |
| | |
| Operating and Electrical | |
| Line Frequency | 50 Hz |
| Input Frequency | 50 Hz |
| Power Consumption | 50 W |
| Lamp Current (Nom) | 1,060 mA |
| Starting Time (Nom) | 0.5 s |
| Warm-up time to 60% light | 0.5 s |
| Power Factor (Fraction) | - |
| Voltage (Nom) | 85-95 V |
| Ballast Compatibility | EM |
| | |

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| Inrush current at mains | - |
|--|----------|
| Max. lamp no. on MCB B type 10A - Mains | - |
| Max. lamp no. on MCB B type 10A – EM ballast | 6 |
| without Compensation Capacitor. | |
| Max. lamp no. on MCB B type 10A – EM ballast | 9 |
| with Compensation Capacitor. | |
| Max. lamp no. on MCB B type 16A - Mains | - |
| Max. lamp no. on MCB B type 16A – EM ballast | 10 |
| without Compensation Capacitor. | |
| Max. lamp no. on MCB B type 16A – EM ballast | 15 |
| with Compensation Capacitor. | |
| | |
| Temperature | |
| T-Case Maximum (Nom) | 52 ℃ |
| | |
| Controls and Dimming | |
| Dimmable | No |
| | |
| Mechanical and Housing | |
| Bulb Finish | Clear |
| Bulb Material | Glass |
| Bulb Shape | T70 |
| Net Weight (Piece) | 0.490 kg |
| | |

| Approval and Application | | |
|---------------------------------|---------------------------------|--|
| Energy Efficiency Class | D | |
| Energy Consumption kWh/1000 h | 50 kWh | |
| EPREL Registration Number | 1077790 | |
| CE mark | Yes | |
| EU RoHS compliant | Yes | |
| Ambient temperature range | -30 to +45 °C | |
| | | |
| Product Data | | |
| Order product name | MAS LED SON-T IF 8.1Klm 50W 727 | |
| | E40 | |
| Full product name | MAS LED SON-T IF 8.1Klm 50W 727 | |
| | E40 | |
| Full product code | 871951444895700 | |
| Order code | 929003467412 | |
| Material Nr. (12NC) | 929003467412 | |
| Numerator - Quantity Per Pack | 1 | |
| EAN/UPC - Product/Case | 8719514448957 | |
| Numerator - Packs per outer box | 6 | |
| EAN/UPC - Case | 8719514448964 | |
| | | |

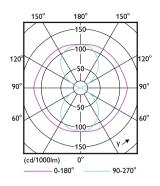
Dimensional drawing

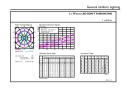


| Product | D | с |
|-------------------------------------|-------|--------|
| MAS LED SON-T IF 8.1Klm 50W 727 E40 | 71 mm | 262 mm |

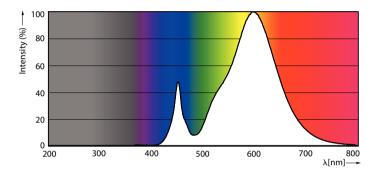
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Photometric data



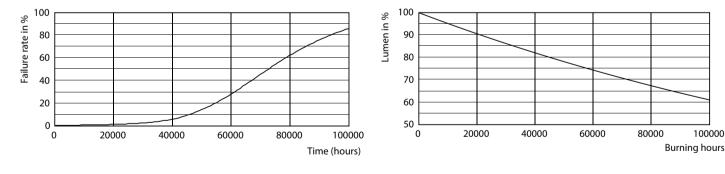


Light Distribution Diagram - MAS LED SON-T IF 8.1Klm 50W 727 E40



Spectral Power Distribution Colour - MAS LED SON-T IF 8.1Klm 50W 727 E40

Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LED SON-T IF 8.1Klm 50W 727 E40

General uniform lighting - MAS LED SON-T IF 8.1Klm 50W 727 E40

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