# **PHILIPS** Lighting



## MASTER - LED HID HPL

### MAS LED HPL M 6Klm 33.5W 840 E40 FR G

Philips Master LED HPL lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy efficiency and long lifetime benefits of LED to HID HPL replacement and provide instant saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit Master LED HPL urban lamps and bypass the existing ballast while enhancing the lighting quality.

#### Warnings and Safety

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

#### **Product data**

| 6 H K K                            |                    |
|------------------------------------|--------------------|
| General Information                |                    |
| Cap-Base                           | E40                |
| Nominal lifetime                   | 50,000 hour(s)     |
| Switching Cycle                    | 50,000             |
| Lighting Technology                | LED                |
| Flux measurement reference         | Sphere             |
|                                    |                    |
| Light Technical                    |                    |
| Color Code                         | 840 [CCT of 4000K] |
| Beam Angle (Nom)                   | 300 degree(s)      |
| Luminous Flux                      | 6,000 lm           |
| Color Designation                  | Cool White (CW)    |
| Correlated Color Temperature (Nom) | 4000 K             |
| Luminous Efficacy (rated) (Nom)    | 179 lm/W           |
| Color Consistency                  | <6                 |
| Color rendering index (CRI)        | 80                 |
|                                    |                    |

| LLMF At End Of Nominal Lifetime (Nom)        | 70 %        |
|--|-------------|
| Photobiological safety according to EN 62471 | RGO         |
|  |             |
| Operating and Electrical                     |             |
| Line Frequency                               | 50 to 60 Hz |
| Input Frequency                              | 50 to 60 Hz |
| Power Consumption                            | 33.5 W      |
| Lamp Current (Nom)                           | 150 mA      |
| Starting Time (Nom)                          | 0.5 s       |
| Warm-up time to 60% light                    | 45 s        |
| Power Factor (Fraction)                      | 0.9         |
| Voltage (Nom)                                | 220-240 V   |
| Ballast Compatibility                        | Mains       |
| Inrush current at mains                      | 23.2        |
| Max. lamp no. on MCB B type 10A - Mains      | 8           |

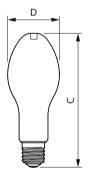
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#### **MASTER - LED HID HPL**

| Max. lamp no. on MCB B type 10A – EM ballast | -                  | Energy Consumption kWh/1000 h                      | 34 kWh                       |
|--|--------------------|--|------------------------------|
| without Compensation Capacitor.              |                    | EPREL Registration Number                          | 1363720                      |
| Max. lamp no. on MCB B type 10A - EM ballast | -                  | CE mark  | Yes                          |
| with Compensation Capacitor.                 |                    | EU RoHS compliant                                  | Yes                          |
| Max. lamp no. on MCB B type 16A - Mains      | 13                 | Flickering value (PstLM) - Flickering value as per | 1                            |
| Max. lamp no. on MCB B type 16A – EM ballast | -                  | EN 61000-3-3                                       |                              |
| without Compensation Capacitor.              |                    | Stroboscopic effect visibility measure (SVM)       | 1.6                          |
| Max. lamp no. on MCB B type 16A - EM ballast | -                  | Ambient temperature range                          | -30 to +45 °C                |
| with Compensation Capacitor.                 |                    |  |                              |
|  |                    | Product Data                                       |                              |
| Temperature                                  |                    | Order product name                                 | MAS LED HPL M 6Klm 33.5W 840 |
| T-Case Maximum (Nom)                         | 65 °C              |  | E40 FR G                     |
|  |                    | Full product name                                  | MAS LED HPL M 6Klm 33.5W 840 |
| Controls and Dimming                         |                    |  | E40 FR G                     |
| Dimmable                                     | No                 | Full product code                                  | 871951445207700              |
|  |                    | Order code   | 929003531402                 |
| Mechanical and Housing                       |                    | Material Nr. (12NC)                                | 929003531402                 |
| Bulb Finish                                  | Frosted            | Numerator - Quantity Per Pack                      | 1                            |
| Bulb Material                                | Glass              | EAN/UPC - Product/Case                             | 8719514452077                |
| Bulb Shape                                   | Tube, single-ended | Numerator - Packs per outer box                    | 6                            |
| Net Weight (Piece)                           | 0.210 kg           | EAN/UPC - Case                                     | 8719514452084                |
| Approval and Application                     |                    |  |                              |
| Energy Efficiency Class                      | С                  |  |                              |

#### Dimensional drawing

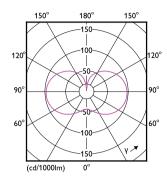


| Product                               | D     | с      |
|---------------------------------------|-------|--------|
| MAS LED HPL M 6Klm 33.5W 840 E40 FR G | 91 mm | 238 mm |

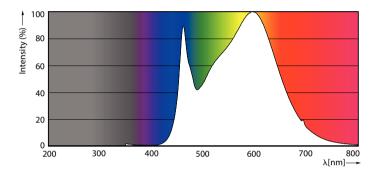
#### **MASTER - LED HID HPL**

#### Photometric data

|           | 1 x 929001511412.5W |
|-----------|---------------------|
|           | 5 a \$200 kh        |
|           |                     |
| Anna Alta |                     |

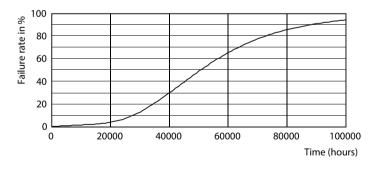


General uniform lighting - MAS LED HPL M 6Klm 33.5W 840 E40 FR G



Spectral Power Distribution Colour - MAS LED HPL M 6Klm 33.5W 840 E40 FR G

#### Lifetime



Lumen in % 90 80 70 60 50 ∟ 0 10000 20000 30000 40000 50000 60000 **Burning hours** 

Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LED HPL M 6Klm 33.5W 840 E40 FR G

Light Distribution Diagram - MAS LED HPL M 6Klm 33.5W 840 E40 FR G

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