



# TrueForce LED Industrial and retail Mains (Highbay – HPI/SON/HPL)

## TForce HB 140W E40 865 WB GM

Philips MASTER – LED HID HPI EM/Mains Highbay lamps give you a quick and easy payback solution to replace HID alternatives in high-bay applications. MASTER – LED HID HPI EM/Mains solutions give you the LED benefits of energy efficiency and a long lifetime with a retrofit solution. The design of MASTER – LED HID HPI EM/Mains enables the direct retrofit of HID lamps without changing the fixtures or EM ballast (see installation guide for more info). The MASTER – LED HID HPI EM/Mains lamp is compatible with both 250W and 400W EM ballast to maximize the feasibility of such retrofits.

### Product data

| General Information        |                    |
|----------------------------|--------------------|
| Cap-Base                   | E40                |
| Nominal lifetime           | 50,000 hour(s)     |
| Switching Cycle            | 50,000             |
| Lighting Technology        | LED                |
| Flux measurement reference | Wide Cone          |
| Light Technical            |                    |
| Color Code                 | 865 [CCT of 6500K] |
| Beam Angle (Nom)           | 120 degree(s)      |
| Luminous Flux              | 20,000 lm          |

| Color Designation                            | Cool Daylight |
|----------------------------------------------|---------------|
| Correlated Color Temperature (Nom)           | 6500 K        |
| Luminous Efficacy (rated) (Nom)              | 115 lm/W      |
| Color Consistency                            | <6            |
| Color rendering index (CRI)                  | 80            |
| LLMF At End Of Nominal Lifetime (Nom)        | 70 %          |
| Photobiological safety according to EN 62471 | RG1           |
| Operating and Electrical                     |               |
| Line Frequency                               | 50 to 60 Hz   |
| Input Frequency                              | 50 to 60 Hz   |

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|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| Power Consumption                                                            | 140 W     |
| Lamp Current (Nom)                                                           | 1,450 mA  |
| Starting Time (Nom)                                                          | 0.5 s     |
| Warm-up time to 60% light                                                    | 0.5 s     |
| Power Factor (Fraction)                                                      | 0.9       |
| Voltage (Nom)                                                                | 110-277 V |
| Ballast Compatibility                                                        | EM/Mains  |
| Inrush current at mains                                                      | 55        |
| Max. lamp no. on MCB B type 10A – Mains                                      | 5         |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 5         |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | -         |
| Max. lamp no. on MCB B type 16A – Mains                                      | 9         |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 9         |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | -         |

Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 57 °C |
|----------------------|-------|

Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

Mechanical and Housing

|               |         |
|---------------|---------|
| Bulb Finish   | Clear   |
| Bulb Material | Plastic |
| Bulb Shape    | Others  |

|                    |          |
|--------------------|----------|
| Net Weight (Piece) | 1.100 kg |
|--------------------|----------|

Approval and Application

|                                                                 |               |
|-----------------------------------------------------------------|---------------|
| Energy Efficiency Class                                         | D             |
| Energy Consumption kWh/1000 h                                   | 140 kWh       |
| EPREL Registration Number                                       | 1708658       |
| CE mark                                                         | Yes           |
| EU RoHS compliant                                               | Yes           |
| Flickering value (PstLM) – Flickering value as per EN 61000-3-3 | 1             |
| Stroboscopic effect visibility measure (SVM)                    | 1.6           |
| Ambient temperature range                                       | -20 to +45 °C |

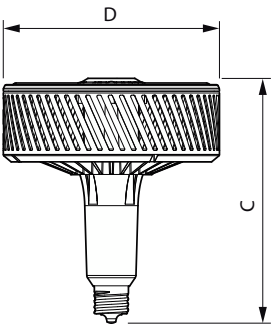
Application Conditions

|                                     |    |
|-------------------------------------|----|
| can it be used in closed luminaires | No |
|-------------------------------------|----|

Product Data

|                                 |                              |
|---------------------------------|------------------------------|
| Order product name              | TForce HB 140W E40 865 WB GM |
| Full product name               | TForce HB 140W E40 865 WB GM |
| Full product code               | 871869973276900              |
| Order code                      | 929002281908                 |
| Material Nr. (12NC)             | 929002281908                 |
| Numerator – Quantity Per Pack   | 1                            |
| EAN/UPC – Product/Case          | 8718699732769                |
| Numerator – Packs per outer box | 4                            |
| EAN/UPC – Case                  | 8718699732776                |

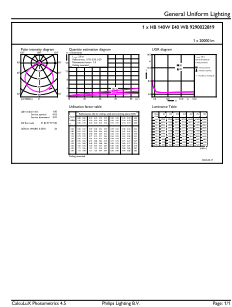
Dimensional drawing



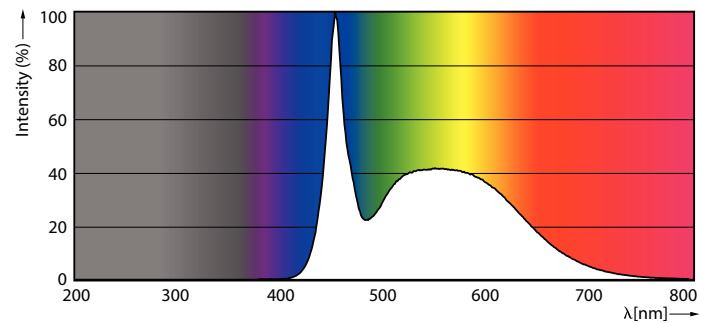
| Product                      | D      | C      |
|------------------------------|--------|--------|
| TForce HB 140W E40 865 WB GM | 250 mm | 290 mm |

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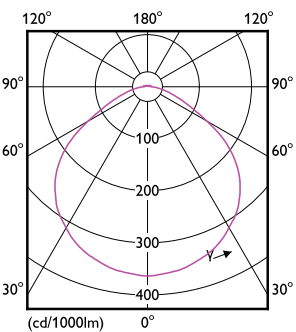
Photometric data



General uniform lighting - TForce HB 140W E40 865 WB GM

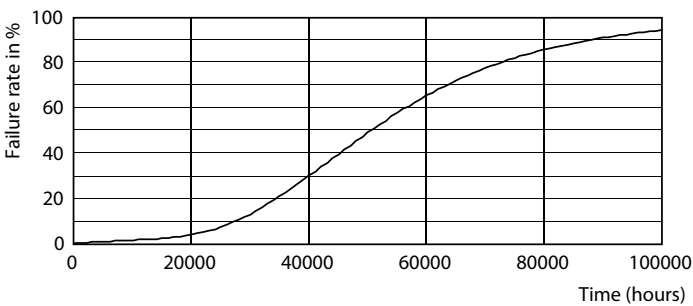


Spectral Power Distribution Colour - TForce HB 140W E40 865 WB GM

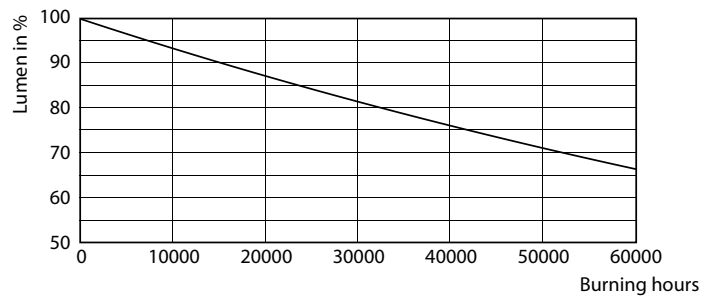


Light Distribution Diagram - TForce HB 140W E40 865 WB GM

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce HB 140W E40 865 WB GM

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