



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

## TrueForce LED HB MV ND 200-160W E40 840 NB

Philips TrueForce LED I&R mains 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 replacement and provide instant saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce LED I&R mains lamps and bypass the existing ballast while enhancing the lighting quality.

### Product data

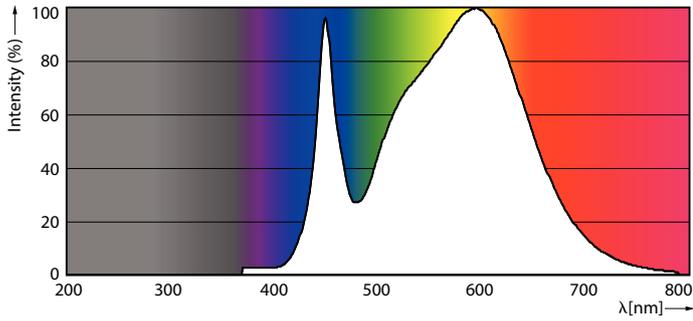
| General Information                |                    |
|------------------------------------|--------------------|
| Cap-Base                           | E40 [E40]          |
| Nominal lifetime                   | 50,000 hour(s)     |
| Switching Cycle                    | 50,000             |
| Lighting Technology                | LED                |
| EU RoHS compliant                  | Yes                |
| Light Technical                    |                    |
| Color Code                         | 840 [CCT of 4000K] |
| Beam Angle (Nom)                   | 60 degree(s)       |
| Luminous Flux                      | 20,000 lm          |
| Color Designation                  | Cool White (CW)    |
| Correlated Color Temperature (Nom) | 4000 K             |

| Luminous Efficacy (rated) (Nom)       | 125.00 lm/W |
|---------------------------------------|-------------|
| Color Consistency                     | <6          |
| Color rendering index (CRI)           | 80          |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %        |
| Operating and Electrical              |             |
| Line Frequency                        | 50 to 60 Hz |
| Input Frequency                       | 50 to 60 Hz |
| Power Consumption                     | 160 W       |
| Lamp Current (Nom)                    | 900 mA      |
| Starting Time (Nom)                   | 0.7 s       |
| Warm-up time to 60% light             | 0.7 s       |
| Power Factor (Fraction)               | 0.9         |



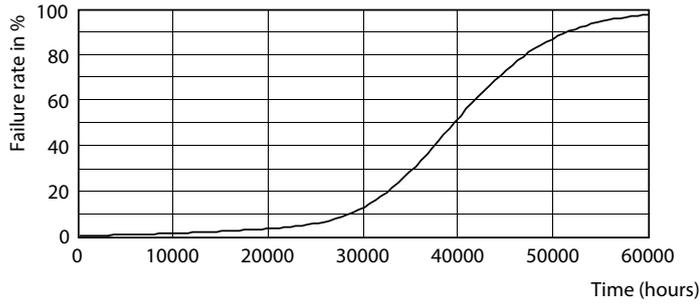
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## Photometric data

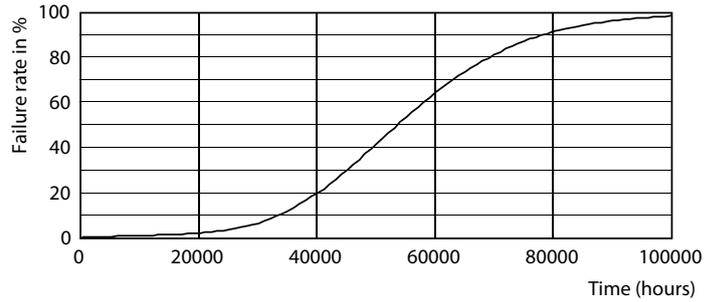


Spectral Power Distribution Colour - TForce LED HB MV ND 200-160W E40 840 NB

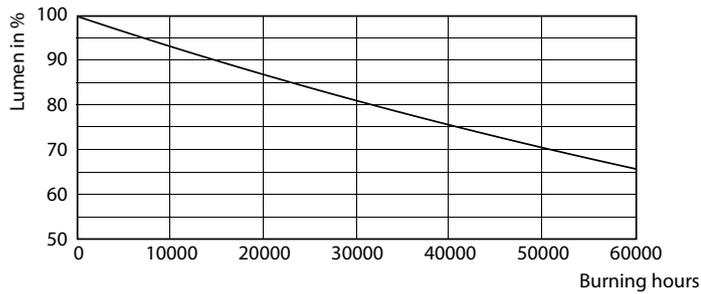
## Lifetime



Life Expectancy Diagram - TForce LED HB MV ND 200-160W E40 840 NB



Life Expectancy Diagram - TForce LED HB MV ND 200-160W E40 840 NB



Lumen Maintenance Diagram - TForce LED HB MV ND 200-160W E40 840 NB

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