



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

## TrueForce HB 140W E40 840 WB GM

MASTER, LED Highbay, Highbay, EM/Mains, 140 W, HPI 400W, E40, 4000 K, 20000 lm, CRI 80, 50000 hour(s)

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 Highbay
Flux measurement reference	Wide Cone
Warranty period	5 years

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	120 degree(s)
Luminous Flux	20,000 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	115 lm/W
Color Consistency	<6

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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
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
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.	-
Wattage Equivalent (LED HID only)	HPI 400W
Ballast Compatibility	EM/Mains

### Temperature

T-Case Maximum (Nom)	57 °C
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### Controls and Dimming

Dimmable	No
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### Mechanical and Housing

Bulb Finish	Clear
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Bulb Material	Plastic
Bulb Shape	Highbay
Net Weight (Piece)	1.100 kg

### Approval and Application

Energy Efficiency Class	D
Energy Saving Product	Yes
Energy Consumption kWh/1000 h	140 kWh
EPREL Registration Number	1745004
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 to +45 °C

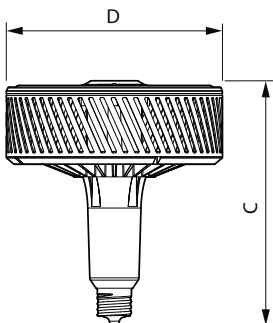
### Application Conditions

can it be used in closed luminaires	No
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### Product Data

Order product name	TForce HB 140W E40 840 WB GM
Full product name	TrueForce HB 140W E40 840 WB GM
Full product code	871869973272100
Order code	73272100
Material Nr. (12NC)	929002281708
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699732721
Numerator - Packs per outer box	4
EAN/UPC - Case	8718699732738

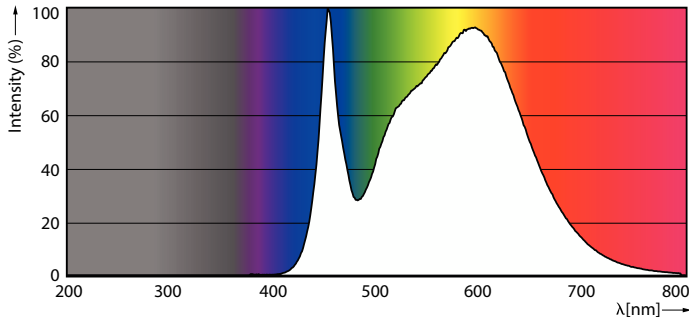
### Dimensional drawing



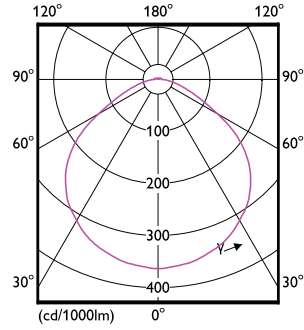
Product	D	C
TForce HB 140W E40 840 WB GM	250 mm	290 mm

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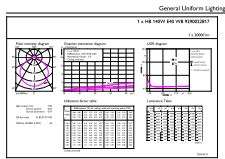
## Photometric data



Spectral Power Distribution Colour - TForce HB 140W E40 840 WB GM



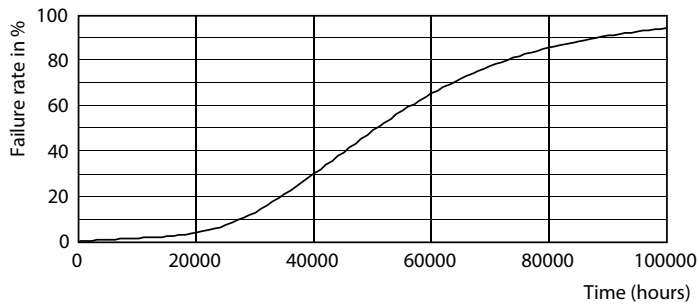
Light Distribution Diagram - TForce HB 140W E40 840 WB GM



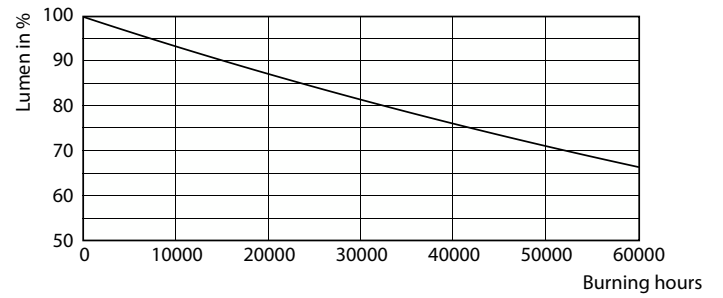
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General uniform lighting - TForce HB 140W E40 840 WB GM

## Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce HB 140W E40 840 WB GM

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