



# The best LED solution for High Intensity Discharge (HID) lamp replacement

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

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.

### Benefits

- Cost saving with short payback time
- Low initial investment
- Enhance lighting quality with easy adoption

### Features

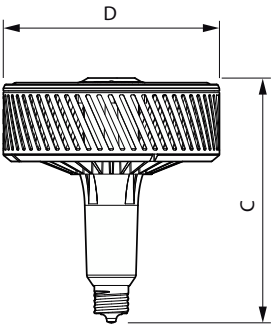
- High Energy efficient lamps
- Long lifetime – 50,000 hrs
- Surge protection 4KV
- Direct lamp replacement solution without changing the fixture or EM ballast
- Compatible with 250W and 400W EM gear systems
- Additional Energy saving by Direct Mains connection
- Pleasant white light with CRI 80

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## Application

- Industrial/retail - warehouses, factories, shops, transport hubs

## Dimensional drawing



Product	D	C
TForce HB 140W E40 840 NB GM	250 mm	290 mm
TForce HB 140W E40 840 WB GM	250 mm	290 mm
TForce HB 140W E40 865 NB GM	250 mm	290 mm
TForce HB 140W E40 865 WB GM	250 mm	290 mm

General Information	
Cap-Base	E40
Switching Cycle	50,000
Nominal lifetime	50,000 hour(s)
Light Technical	
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Luminous Flux	20,000 lm
Operating and Electrical	
Input Frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Power Consumption	140 W
Starting Time (Nom)	0.5 s
Temperature	
T-Case Maximum (Nom)	57 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	Others
Approval and Application	
Ambient temperature range	-20 to +45 °C
Energy Consumption kWh/1000 h	140 kWh

## Light Technical

			Correlated Color	
Order Code	Full Product Name	Beam Angle (Nom)	Temperature (Nom)	Color Code
929002281608	TForce HB 140W E40 840 NB GM	60 degree(s)	4000 K	840
929002281708	TForce HB 140W E40 840 WB GM	120 degree(s)	4000 K	840
929002281808	TForce HB 140W E40 865 NB GM	60 degree(s)	6500 K	865
929002281908	TForce HB 140W E40 865 WB GM	120 degree(s)	6500 K	865

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