



# Ideal for HPI/SON/HPL LED replacement in High- bay applications

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

Philips TrueForce LED Industrial and Retail lamps give you a quick and easy payback solution to replace HID lamps in High-bay applications. The solution gives you the LED benefits of energy-efficiency and long-lifetime, plus the initial investment is low. With unique lamp design and compatibility, you can directly retrofit HID lamps with TrueForce LED lamps without changing the fixtures or gear. Multiple beam angle options and high colour-rendering index enhance the lighting distribution while creating a comfortable, safe and high-productivity environment.

### Benefits

- Instant upgrade and easy to install – less time-consuming and safer working at height
- Great ROI (<2 years) and extended energy savings of 65% vs existing conventional systems
- Low initial investment

### Features

- Direct lamp replacement solution without changing fixtures or equipment
- High energy efficiency with directional light
- Long lifetime of 50,000 hrs for operation efficiency
- Crispy white light 4,000 K, CRI80 for better visual colour
- Product weight < 1.3 kg

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### Application

- Industrial – factories, warehouses, distribution centres
- Retail – hypermarkets, shopping centres
- Others – transportation hubs, convention centres, sports centres/town halls

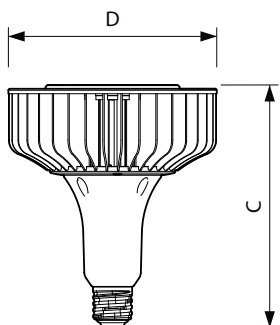
### Warnings and Safety

- EM version requires an EM ballast to operate. Please refer to the installation guide or consult a Philips Lighting representative.

### Versions



### Dimensional drawing



Product	D	C
TrueForce Core HB 200-160W E40 840 WB GM	211 mm	263 mm
TrueForce Core HB 200-160W E40 865 WB GM	211 mm	252 mm
TrueForce LED HPI ND 110-88W E40 840 120D	210 mm	250 mm

#### Approval and Application

Energy Efficiency Label (EEL) A+

#### Controls and Dimming

Dimmable No

#### General Information

Cap-Base E40

Switching Cycle 50000X

#### Light Technical

Colour Rendering Index (Nom) 80

Llmf At End Of Nominal Lifetime (Nom) 70 %

### Approval and Application

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Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	97 kWh
929001812508	TrueForce Core HB 200-160W E40 840 WB GM	-

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001812708	TrueForce Core HB 200-160W E40 865 WB GM	-

## Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	50 Hz	100-145 V	250 W	88 W	1.2 s
929001812508	TrueForce Core HB 200-160W E40 840 WB GM	50 to 60 Hz	110-277 V	400 W	160 W	0.7 s
929001812708	TrueForce Core HB 200-160W E40 865 WB GM	50 to 60 Hz	110-277 V	400 W	160 W	0.7 s

## General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	50000 h
929001812508	TrueForce Core HB 200-160W E40 840 WB GM	25000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)
929001812708	TrueForce Core HB 200-160W E40 865 WB GM	25000 h

## Light Technical

Order Code	Full Product Name	Beam		Correlated Colour	
		Angle (Nom)	Colour Code	Temperature (Nom)	Luminous Flux (Nom)
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	120 °	840	4000 K	11000 lm
929001812508	TrueForce Core HB 200-160W E40 840 WB GM	130 °	840	4000 K	20000 lm

Order Code	Full Product Name	Beam		Correlated Colour	
		Angle (Nom)	Colour Code	Temperature (Nom)	Luminous Flux (Nom)
929001812708	TrueForce Core HB 200-160W E40 865 WB GM	130 °	865	6500 K	20000 lm

## Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	-	Others
929001812508	TrueForce Core HB 200-160W E40 840 WB GM	Frosted	T50

Order Code	Full Product Name	Bulb Finish	Bulb Shape
929001812708	TrueForce Core HB 200-160W E40 865 WB GM	-	T50

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001356902	TrueForce LED HPI ND 110-88W E40 840 120D	90 °C
929001812508	TrueForce Core HB 200-160W E40 840 WB GM	100 °C
929001812708	TrueForce Core HB 200-160W E40 865 WB GM	100 °C

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