



# 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

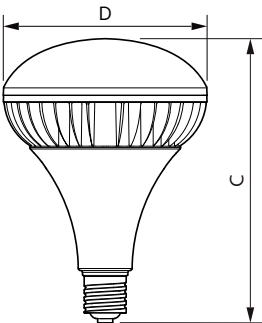
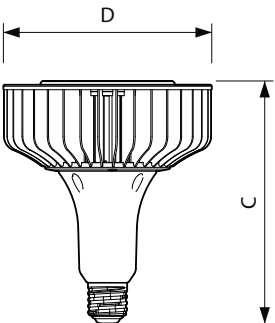
## Warnings and Safety

- 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 865 WB GM	211 mm	252 mm

Product	D	C
TrueForce HB 100-85W E40 865 120D GM	190 mm	270 mm

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## Controls and Dimming

Dimmable	No
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## Operating and Electrical

Input Frequency	50 to 60 Hz
Voltage (Nom)	110-277 V

## General Information

Cap-Base	E40
Nominal Lifetime (Nom)	25000 h
Switching Cycle	50,000X

## Light Technical

Colour Code	865
Correlated Colour Temperature (Nom)	6500 K
Colour Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	70 %

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
76938600	TrueForce Core HB 200-160W E40 865 WB GM	- kWh
82660700	TrueForce HB 100-85W E40 865 120D GM	85 kWh

## Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Nom)	Starting Time (Nom)
76938600	TrueForce Core HB 200-160W E40 865 WB GM	400 W	160 W	0.7 s

Order Code	Full Product Name	Wattage Equivalent	Power (Nom)	Starting Time (Nom)
82660700	TrueForce HB 100-85W E40 865 120D GM	250 W	85 W	0.5 s

## Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Nom)
76938600	TrueForce Core HB 200-160W E40 865 WB GM	130 °	20000 lm

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Nom)
82660700	TrueForce HB 100-85W E40 865 120D GM	120 °	10000 lm

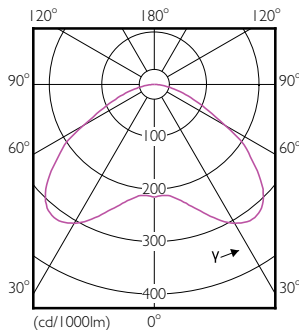
## Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
76938600	TrueForce Core HB 200-160W E40 865 WB GM	-	T50

Order Code	Full Product Name	Bulb Finish	Bulb Shape
82660700	TrueForce HB 100-85W E40 865 120D GM	Frosted	Others

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
76938600	TrueForce Core HB 200-160W E40 865 WB GM	100 °C
82660700	TrueForce HB 100-85W E40 865 120D GM	90 °C



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