



# 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

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

## Application

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

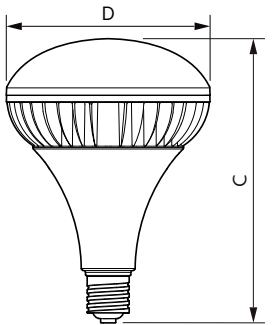
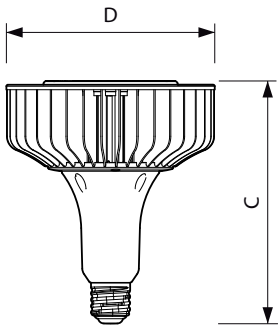
## Warnings and Safety

- 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 LED HPI ND 200-145W E40 840 60D	210 mm	250 mm
TrueForce LED HPI ND 200-145W E40 840 120D	210 mm	250 mm
TrueForce LED HPI ND 110-88W E40 840 60D	210 mm	250 mm
TrueForce Core HB 200-160W E40 865 WB GM	211 mm	252 mm
TrueForce Core HB 200-160W E40 840 WB GM	211 mm	263 mm
TrueForce Core HB 200-160W E40 865 NB GM	211 mm	252 mm
TrueForce LED HPI ND 110-88W E40 840 120D	210 mm	250 mm

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

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

## Controls and Dimming

Dimmable	No
----------	----

## General Information

Cap-Base	E40
Switching Cycle	50,000X

## Light Technical

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
71378500	TrueForce LED HPI ND 110-88W E40 840 60D	97 kWh
71382200	TrueForce LED HPI ND 110-88W E40 840 120D	97 kWh
71386000	TrueForce LED HPI ND 200-145W E40 840 60D	160 kWh
71388400	TrueForce LED HPI ND 200-145W E40 840 120D	160 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
76934800	TrueForce Core HB 200-160W E40 840 WB GM	- kWh
76936200	TrueForce Core HB 200-160W E40 865 NB GM	- kWh
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	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
71378500	TrueForce LED HPI ND 110-88W E40 840 60D	50 Hz	100-145 V	250 W	88 W	1.2 s
71382200	TrueForce LED HPI ND 110-88W E40 840 120D	50 Hz	100-145 V	250 W	88 W	1.2 s
71386000	TrueForce LED HPI ND 200-145W E40 840 60D	50 Hz	100-145 V	400 W	145 W	0.7 s
71388400	TrueForce LED HPI ND 200-145W E40 840 120D	50 Hz	100-145 V	400 W	145 W	0.7 s
76934800	TrueForce Core HB 200-160W E40 840 WB GM	50 to 60 Hz	110-277 V	400 W	160 W	0.7 s
76936200	TrueForce Core HB 200-160W E40 865 NB GM	50 to 60 Hz	110-277 V	400 W	160 W	0.7 s
76938600	TrueForce Core HB 200-160W E40 865 WB GM	50 to 60 Hz	110-277 V	400 W	160 W	0.7 s
82660700	TrueForce HB 100-85W E40 865 120D GM	50 to 60 Hz	110-277 V	250 W	85 W	0.5 s

## General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)
71378500	TrueForce LED HPI ND 110-88W E40 840 60D	50000 h
71382200	TrueForce LED HPI ND 110-88W E40 840 120D	50000 h
71386000	TrueForce LED HPI ND 200-145W E40 840 60D	50000 h
71388400	TrueForce LED HPI ND 200-145W E40 840 120D	50000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)
76934800	TrueForce Core HB 200-160W E40 840 WB GM	25000 h
76936200	TrueForce Core HB 200-160W E40 865 NB GM	25000 h
76938600	TrueForce Core HB 200-160W E40 865 WB GM	25000 h
82660700	TrueForce HB 100-85W E40 865 120D GM	25000 h

## Light Technical

Order Code	Full Product Name	Beam		Correlated Colour	
		Angle (Nom)	Colour Code	Temperature (Nom)	Luminous Flux (Nom)
71378500	TrueForce LED HPI ND 110-88W E40 840 60D	60 °	841	4000 K	11000 lm

Order Code	Full Product Name	Beam		Correlated Colour	
		Angle (Nom)	Colour Code	Temperature (Nom)	Luminous Flux (Nom)
71382200	TrueForce LED HPI ND 110-88W E40 840 120D	120 °	841	4000 K	11000 lm

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

Order Code	Full Product Name	Beam		Correlated Colour		Luminous Flux (Nom)
		Angle (Nom)	Colour Code	Temperature (Nom)	Temperature (Nom)	
71386000	TrueForce LED HPI ND 200-145W E40 840 60D	60 °	841	4000 K		20000 lm
71388400	TrueForce LED HPI ND 200-145W E40 840 120D	120 °	841	4000 K		20000 lm
76934800	TrueForce Core HB 200-160W E40 840 WB GM	130 °	841	4000 K		20000 lm

Order Code	Full Product Name	Beam		Correlated Colour		Luminous Flux (Nom)
		Angle (Nom)	Colour Code	Temperature (Nom)	Temperature (Nom)	
76936200	TrueForce Core HB 200-160W E40 865 NB GM	70 °	865	6500 K		20000 lm
76938600	TrueForce Core HB 200-160W E40 865 WB GM	130 °	865	6500 K		20000 lm
82660700	TrueForce HB 100-85W E40 865 120D GM	120 °	865	6500 K		10000 lm

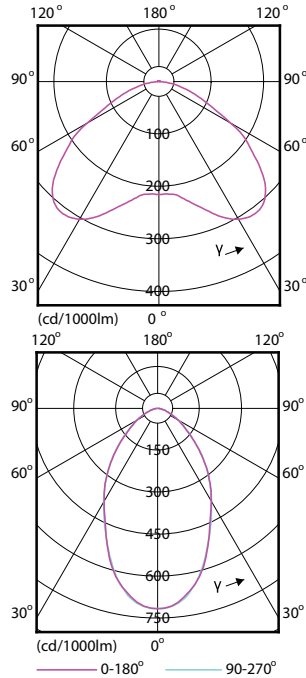
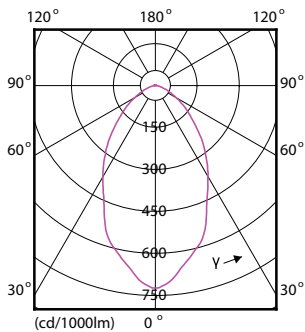
## Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
71378500	TrueForce LED HPI ND 110-88W E40 840 60D	-	Others
71382200	TrueForce LED HPI ND 110-88W E40 840 120D	-	Others
71386000	TrueForce LED HPI ND 200-145W E40 840 60D	-	Others
71388400	TrueForce LED HPI ND 200-145W E40 840 120D	-	Others

Order Code	Full Product Name	Bulb Finish	Bulb Shape
76934800	TrueForce Core HB 200-160W E40 840 WB GM	Frosted	T50
76936200	TrueForce Core HB 200-160W E40 865 NB GM	-	T50
76938600	TrueForce Core HB 200-160W E40 865 WB GM	-	T50
82660700	TrueForce HB 100-85W E40 865 120D GM	Frosted	Others

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
71378500	TrueForce LED HPI ND 110-88W E40 840 60D	90 °C
71382200	TrueForce LED HPI ND 110-88W E40 840 120D	90 °C
71386000	TrueForce LED HPI ND 200-145W E40 840 60D	95 °C
71388400	TrueForce LED HPI ND 200-145W E40 840 120D	95 °C
76934800	TrueForce Core HB 200-160W E40 840 WB GM	100 °C
76936200	TrueForce Core HB 200-160W E40 865 NB GM	100 °C
76938600	TrueForce Core HB 200-160W E40 865 WB GM	100 °C
82660700	TrueForce HB 100-85W E40 865 120D GM	90 °C



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

