



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

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

Philips TrueForce LED I&R mains lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy-efficiency and long lifetime benefits of LED to HID replacement and provide instant savings and low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce LED I&R mains lamps and bypass the existing ballast while enhancing the lighting quality.

### Benefits

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

### Features

- High energy-efficiency
- Lifetime 50,000 hrs
- Right lighting distribution
- Connect to mains directly and save additional energy
- Pleasant white light with CRI 80

### Application

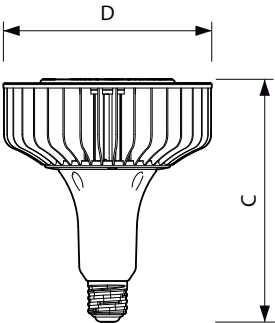
- Industrial/retail – warehouses, factories, shops, transport hubs

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## Versions



## Dimensional drawing



Product	D	C
TForce LED HB MV ND 200-160W E40 840 NB	211 mm	263 mm
TForce LED HB MV ND 200-160W E40 840 WB	211 mm	263 mm
TForce LED HB MV ND 120-100W E40 840 NB	211 mm	252 mm
TForce LED HB MV ND 120-100W E40 840 WB	211 mm	252 mm

Approval and Application	
Energy Efficiency Label (EEL)	A+
Controls and Dimming	
Dimmable	No
Operating and Electrical	
Input Frequency	50 to 60 Hz
Voltage (Nom)	220-240 V
General Information	
Cap-Base	E40
Nominal Lifetime (Nom)	50000 h
Rated Lifetime (Hours)	50000 h
Switching Cycle	50000X
Light Technical	
Colour Code	840
Correlated Colour Temperature (Nom)	4000 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
59670500	TForce LED HB MV ND 200-160W E40 840 NB	160 kWh
59672900	TForce LED HB MV ND 200-160W E40 840 WB	160 kWh
59676700	TForce LED HB MV ND 120-100W E40 840 NB	100 kWh
59678100	TForce LED HB MV ND 120-100W E40 840 WB	100 kWh

## Operating and Electrical

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Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
59670500	TForce LED HB MV ND 200-160W E40 840 NB	400 W	160 W	0.7 s
59672900	TForce LED HB MV ND 200-160W E40 840 WB	400 W	160 W	0.7 s

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
59676700	TForce LED HB MV ND 120-100W E40 840 NB	250 W	100 W	0.5 s
59678100	TForce LED HB MV ND 120-100W E40 840 WB	250 W	100 W	0.5 s

### Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
59670500	TForce LED HB MV ND 200-160W E40 840 NB	60 °	20000 lm	20000 lm
59672900	TForce LED HB MV ND 200-160W E40 840 WB	120 °	20000 lm	20000 lm

Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
59676700	TForce LED HB MV ND 120-100W E40 840 NB	60 °	12000 lm	12000 lm
59678100	TForce LED HB MV ND 120-100W E40 840 WB	120 °	12000 lm	12000 lm

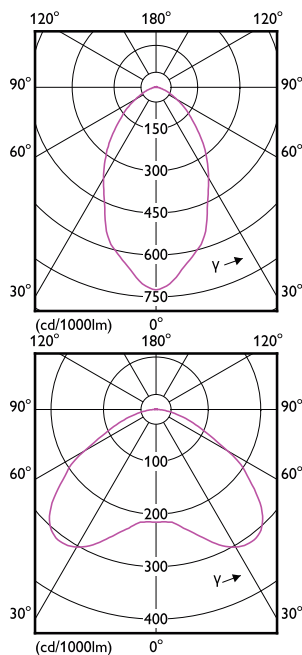
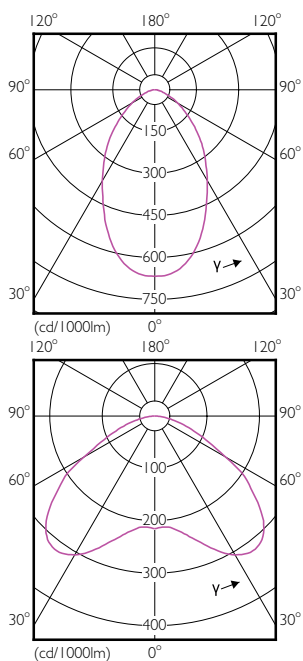
### Mechanical and Housing

Order Code	Full Product Name	Bulb Finish	Bulb Shape
59670500	TForce LED HB MV ND 200-160W E40 840 NB	Frosted (FR)	T50
59672900	TForce LED HB MV ND 200-160W E40 840 WB	Frosted (FR)	T50

Order Code	Full Product Name	Bulb Finish	Bulb Shape
59676700	TForce LED HB MV ND 120-100W E40 840 NB	-	-
59678100	TForce LED HB MV ND 120-100W E40 840 WB	-	-

### Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
59670500	TForce LED HB MV ND 200-160W E40 840 NB	100 °C
59672900	TForce LED HB MV ND 200-160W E40 840 WB	100 °C
59676700	TForce LED HB MV ND 120-100W E40 840 NB	70 °C
59678100	TForce LED HB MV ND 120-100W E40 840 WB	70 °C



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