



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

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

Philips TrueForce Core LED I&R 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 saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce Core LED I&R lamps and bypass the existing ballast while enhancing the lighting quality.

### Benefits

- Cost saving with short payback time
- Light on the wider working space
- Low initial investment
- Enhance lighting quality with easy adoption

### Features

- High energy efficiency
- Lifetime 20,000hrs
- Wide beam angle, 240°
- Bypass ballast and save additional energy
- Pleasant white light with CRI 80

### Application

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

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

## Versions



Trueforce E27 T-shape Frosted



Trueforce E27 T-shape Frosted



Single Contact Medium Screw T-shape Frosted



Single Contact Medium Screw T-shape Frosted

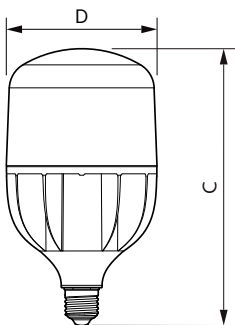


Single Contact Medium Screw T-shape Frosted



Exclusionary Mogul Screw T-shape Frosted

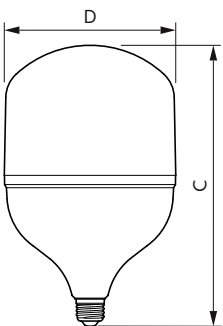
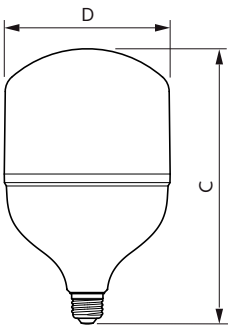
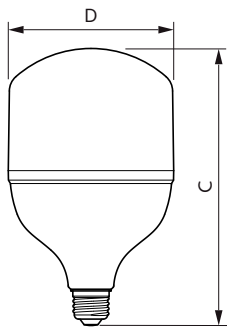
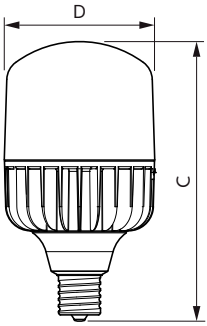
## Dimensional drawing



Product	D	C
TForce Core HB MV ND 48-42W E27 830	123 mm	225 mm
TForce Core HB MV ND 37-35W E27 830	105 mm	190 mm
TForce Core HB MV ND 50-42W E27 840	123 mm	225 mm
TForce Core HB MV ND 40-35W E27 840	105 mm	190 mm
TForce Core HB MV ND 26-24W E27 830	105 mm	190 mm
TForce Core HB MV ND 28-24W E27 840	105 mm	190 mm

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## Dimensional drawing



Product	D	C
75HB/LED/850/ND FB 4/1	141 mm	267 mm
65HB/LED/850/ND FB 4/1	141 mm	267 mm
75HB/LED/840/ND FB 4/1	141 mm	267 mm
65HB/LED/840/ND FB 4/1	141 mm	267 mm

Product	D	C
25HB/LED/830/ND FB 6/1	118 mm	209 mm
25HB/LED/840/ND FB 6/1	118 mm	209 mm
25HB/LED/850/ND FB 6/1	118 mm	209 mm

Product	D	C
38HB/LED/830/ND FB 6/1	138 mm	238 mm
38HB/LED/850/ND FB 6/1	138 mm	238 mm
38HB/LED/840/ND FB 6/1	138 mm	238 mm

Product	D	C
45HB/LED/830/ND FB 6/1	160 mm	264 mm
45HB/LED/850/ND FB 6/1	160 mm	264 mm
45HB/LED/840/ND FB 6/1	160 mm	264 mm

# TrueForce Core LED Industrial and Retail (Highbay – HPI/SO/N/HPL)

## Controls and Dimming

Dimmable	No
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## Operating and Electrical

Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s

## General Information

Switching Cycle	50000X
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## Light Technical

Color Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	70 %

## Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	T-shape

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Energy Efficiency
		1000 h	Label (EEL)
929001937602	TForce Core HB MV ND 26-24W E27 830	24 kWh	A+
929001937702	TForce Core HB MV ND 28-24W E27 840	24 kWh	A+
929001937902	TForce Core HB MV ND 37-35W E27 830	35 kWh	A+
929001938002	TForce Core HB MV ND 40-35W E27 840	35 kWh	A+
929001938202	TForce Core HB MV ND 48-42W E27 830	42 kWh	A+
929001938302	TForce Core HB MV ND 50-42W E27 840	42 kWh	A+
929001989604	25HB/LED/830/ND FB 6/1	-	-
929001990004	25HB/LED/850/ND FB 6/1	-	-
929001999104	25HB/LED/840/ND FB 6/1	-	-
929001989704	38HB/LED/830/ND FB 6/1	-	-
929001990104	38HB/LED/850/ND FB 6/1	-	-
929001999204	38HB/LED/840/ND FB 6/1	-	-
929001989804	45HB/LED/830/ND FB 6/1	-	-
929001990204	45HB/LED/850/ND FB 6/1	-	-
929001999304	45HB/LED/840/ND FB 6/1	-	-
929001990304	65HB/LED/850/ND FB 4/1	-	-
929001990504	75HB/LED/850/ND FB 4/1	-	-
929001993004	65HB/LED/840/ND FB 4/1	-	-
929001993104	75HB/LED/840/ND FB 4/1	-	-

## Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
929001937602	TForce Core HB MV ND 26-24W E27 830	220-240 V	40 W	24 W
929001937702	TForce Core HB MV ND 28-24W E27 840	220-240 V	40 W	24 W
929001937902	TForce Core HB MV ND 37-35W E27 830	220-240 V	55 W	35 W
929001938002	TForce Core HB MV ND 40-35W E27 840	220-240 V	55 W	35 W
929001938202	TForce Core HB MV ND 48-42W E27 830	220-240 V	70 W	42 W
929001938302	TForce Core HB MV ND 50-42W E27 840	220-240 V	70 W	42 W
929001989604	25HB/LED/830/ND FB 6/1	120 V	70 W	25 W
929001990004	25HB/LED/850/ND FB 6/1	120 V	70 W	25 W
929001999104	25HB/LED/840/ND FB 6/1	120 V	70 W	25 W
929001989704	38HB/LED/830/ND FB 6/1	120 V	85 W	38 W

Order Code	Full Product Name	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
929001990104	38HB/LED/850/ND FB 6/1	120 V	85 W	38 W
929001999204	38HB/LED/840/ND FB 6/1	120 V	85 W	38 W
929001989804	45HB/LED/830/ND FB 6/1	120 V	100 W	45 W
929001990204	45HB/LED/850/ND FB 6/1	120 V	100 W	45 W
929001999304	45HB/LED/840/ND FB 6/1	120 V	100 W	45 W
929001990304	65HB/LED/850/ND FB 4/1	120-277 V	150 W	65 W
929001990504	75HB/LED/850/ND FB 4/1	120-277 V	175 W	75 W
929001993004	65HB/LED/840/ND FB 4/1	120-277 V	150 W	65 W
929001993104	75HB/LED/840/ND FB 4/1	120-277 V	175 W	75 W

## General Information

## TrueForce Core LED Industrial and Retail (Highbay – HPI/SO/N/HPL)

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001937602	TForce Core HB MV ND 26-24W E27 830	E27	20000 h	20000 h
929001937702	TForce Core HB MV ND 28-24W E27 840	E27	20000 h	20000 h
929001937902	TForce Core HB MV ND 37-35W E27 830	E27	20000 h	20000 h
929001938002	TForce Core HB MV ND 40-35W E27 840	E27	20000 h	20000 h
929001938202	TForce Core HB MV ND 48-42W E27 830	E27	20000 h	20000 h
929001938302	TForce Core HB MV ND 50-42W E27 840	E27	20000 h	20000 h
929001989604	25HB/LED/830/ND FB 6/1	E26	25000 h	25000 h

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001990004	25HB/LED/850/ND FB 6/1	E26	25000 h	25000 h
929001999104	25HB/LED/840/ND FB 6/1	E26	25000 h	25000 h
929001989704	38HB/LED/830/ND FB 6/1	E26	25000 h	25000 h
929001990104	38HB/LED/850/ND FB 6/1	E26	25000 h	25000 h
929001999204	38HB/LED/840/ND FB 6/1	E26	25000 h	25000 h
929001989804	45HB/LED/830/ND FB 6/1	E26	25000 h	25000 h
929001990204	45HB/LED/850/ND FB 6/1	E26	25000 h	25000 h
929001999304	45HB/LED/840/ND FB 6/1	E26	25000 h	25000 h
929001990304	65HB/LED/850/ND FB 4/1	EX39	25000 h	25000 h
929001990504	75HB/LED/850/ND FB 4/1	EX39	25000 h	25000 h
929001993004	65HB/LED/840/ND FB 4/1	EX39	25000 h	25000 h
929001993104	75HB/LED/840/ND FB 4/1	EX39	25000 h	25000 h

### Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color	
				Temperature (Nom)	Luminous Flux (Nom)
929001937602	TForce Core HB MV ND 26-24W E27 830	240 °	830	3000 K	2600 lm
929001937702	TForce Core HB MV ND 28-24W E27 840	240 °	840	4000 K	2800 lm
929001937902	TForce Core HB MV ND 37-35W E27 830	240 °	830	3000 K	3700 lm
929001938002	TForce Core HB MV ND 40-35W E27 840	240 °	840	4000 K	4000 lm
929001938202	TForce Core HB MV ND 48-42W E27 830	240 °	830	3000 K	4800 lm
929001938302	TForce Core HB MV ND 50-42W E27 840	240 °	840	4000 K	5000 lm
929001989604	25HB/LED/830/N D FB 6/1	200 °	830	3000 K	2650 lm
929001990004	25HB/LED/850/N D FB 6/1	200 °	850	5000 K	2800 lm

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color	
				Temperature (Nom)	Luminous Flux (Nom)
929001999104	25HB/LED/840/N D FB 6/1	200 °	840	4000 K	2800 lm
929001989704	38HB/LED/830/N D FB 6/1	200 °	830	3000 K	3500 lm
929001990104	38HB/LED/850/N D FB 6/1	200 °	850	5000 K	3800 lm
929001999204	38HB/LED/840/N D FB 6/1	200 °	840	4000 K	3800 lm
929001989804	45HB/LED/830/N D FB 6/1	200 °	830	3000 K	4500 lm
929001990204	45HB/LED/850/N D FB 6/1	200 °	850	5000 K	4800 lm
929001999304	45HB/LED/840/N D FB 6/1	200 °	840	4000 K	4800 lm
929001990304	65HB/LED/850/N D FB 4/1	240 °	850	5000 K	7000 lm
929001990504	75HB/LED/850/N D FB 4/1	240 °	850	5000 K	8500 lm
929001993004	65HB/LED/840/N D FB 4/1	240 °	840	4000 K	7000 lm
929001993104	75HB/LED/840/N D FB 4/1	240 °	840	4000 K	8500 lm

### Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001937602	TForce Core HB MV ND 26-24W E27 830	2600 lm
929001937702	TForce Core HB MV ND 28-24W E27 840	2800 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001937902	TForce Core HB MV ND 37-35W E27 830	3700 lm
929001938002	TForce Core HB MV ND 40-35W E27 840	4000 lm

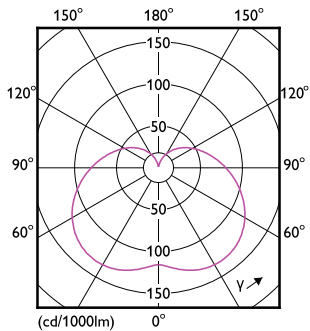
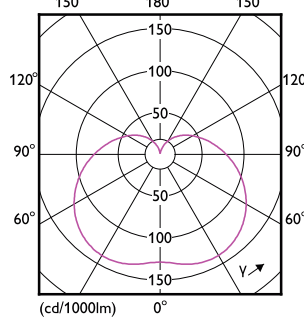
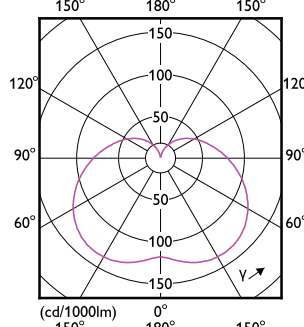
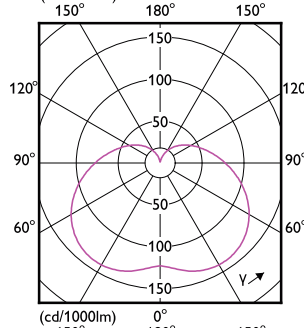
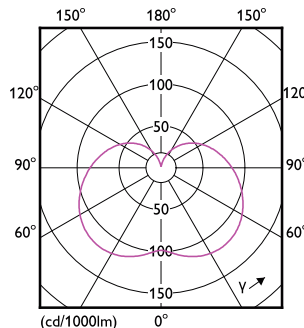
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Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001938202	TForce Core HB MV ND 48-42W E27 830	4800 lm
929001938302	TForce Core HB MV ND 50-42W E27 840	5000 lm
929001989604	25HB/LED/830/ND FB 6/1	2650 lm
929001990004	25HB/LED/850/ND FB 6/1	2800 lm
929001999104	25HB/LED/840/ND FB 6/1	2800 lm
929001989704	38HB/LED/830/ND FB 6/1	3500 lm
929001990104	38HB/LED/850/ND FB 6/1	3800 lm
929001999204	38HB/LED/840/ND FB 6/1	3800 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001989804	45HB/LED/830/ND FB 6/1	4500 lm
929001990204	45HB/LED/850/ND FB 6/1	4800 lm
929001999304	45HB/LED/840/ND FB 6/1	4800 lm
929001990304	65HB/LED/850/ND FB 4/1	7000 lm
929001990504	75HB/LED/850/ND FB 4/1	8500 lm
929001993004	65HB/LED/840/ND FB 4/1	7000 lm
929001993104	75HB/LED/840/ND FB 4/1	8500 lm

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001937602	TForce Core HB MV ND 26-24W E27 830	90 °C
929001937702	TForce Core HB MV ND 28-24W E27 840	90 °C
929001937902	TForce Core HB MV ND 37-35W E27 830	100 °C
929001938002	TForce Core HB MV ND 40-35W E27 840	100 °C
929001938202	TForce Core HB MV ND 48-42W E27 830	100 °C
929001938302	TForce Core HB MV ND 50-42W E27 840	100 °C
929001989604	25HB/LED/830/ND FB 6/1	90 °C
929001990004	25HB/LED/850/ND FB 6/1	90 °C
929001999104	25HB/LED/840/ND FB 6/1	90 °C
929001989704	38HB/LED/830/ND FB 6/1	90 °C
929001990104	38HB/LED/850/ND FB 6/1	90 °C
929001999204	38HB/LED/840/ND FB 6/1	90 °C
929001989804	45HB/LED/830/ND FB 6/1	90 °C
929001990204	45HB/LED/850/ND FB 6/1	90 °C
929001999304	45HB/LED/840/ND FB 6/1	90 °C
929001990304	65HB/LED/850/ND FB 4/1	98 °C
929001990504	75HB/LED/850/ND FB 4/1	98 °C
929001993004	65HB/LED/840/ND FB 4/1	98 °C
929001993104	75HB/LED/840/ND FB 4/1	98 °C



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