



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

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Versions



LEDTForce Core HB Tshape E40 1



LEDTForce Core Tshape E27 FR 2



LEDTForce Core Tshape E27 FR 3

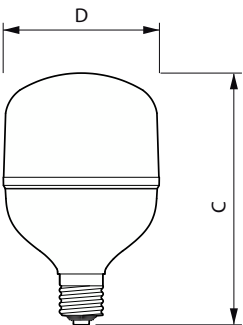
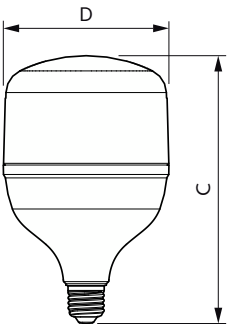


LEDTForce Core Tshape E27 FR 1



LEDTForce Core HB Tshape E40

Dimensional drawing

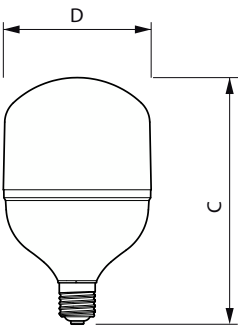
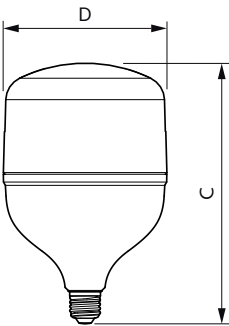
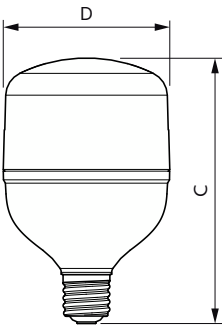
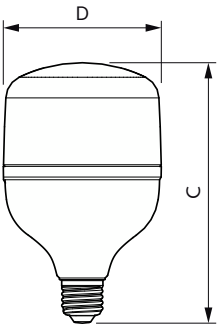


Product	D	C
TForce Core HB 40W E27 830 GN3	118 mm	193 mm

Product	D	C
TForce Core HB MV ND 60W E40 865 GEN3	140 mm	227 mm

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Dimensional drawing



Product	D	C
TForce Core HB 30W E27 830 GN3	100 mm	165 mm
TForce Core HB 30W E27 865 GN3	100 mm	165 mm

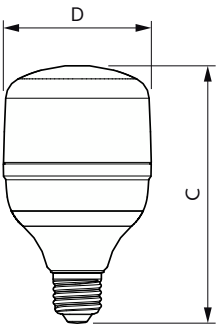
Product	D	C
TForce Core HB 50W E40 865 GN3	139 mm	224 mm

Product	D	C
TForce Core HB 50W E27 830 GN3	139 mm	221 mm
TForce Core HB 50W E27 865 GN3	139 mm	221 mm

Product	D	C
TForce Core HB MV ND 80W E40 865 GEN3	162 mm	271 mm

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Dimensional drawing



Product	D	C
TForce Core HB 25W E27 865 GN3	80 mm	139 mm

General Information	
Switching Cycle	50,000
Light Technical	
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted

General Information

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929002408708	TForce Core HB 50W E27 830 GN3	E27	15,000 hour(s)
929002408808	TForce Core HB 50W E27 865 GN3	E27	15,000 hour(s)
929002409918	TForce Core HB MV ND 80W E40 865 GN3	E40	25,000 hour(s)
929002408308	TForce Core HB 30W E27 830 GN3	E27	15,000 hour(s)
929002408408	TForce Core HB 30W E27 865 GN3	E27	15,000 hour(s)

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929002408508	TForce Core HB 40W E27 830 GN3	E27	15,000 hour(s)
929002408208	TForce Core HB 25W E27 865 GN3	E27	15,000 hour(s)
929002408908	TForce Core HB 50W E40 865 GN3	E40	15,000 hour(s)
929002409618	TForce Core HB MV ND 60W E40 865 GN3	E40	25,000 hour(s)

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color Code	Luminous Flux
		degree(s)			
929002408708	TForce Core HB 50W E27 830 GN3	180	3000 K	830	4,800 lm

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color Code	Luminous Flux
		degree(s)			
929002408808	TForce Core HB 50W E27 865 GN3	180	6500 K	865	5,000 lm

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Order Code	Full Product Name	Beam Angle	Correlated Color Temperature	Color Code	Luminous Flux
		(Nom)	(Nom)		
929002409918	TForce Core HB	150	6500 K	865	9,000 lm
	MV ND 80W E40	degree(s)			
	865 GEN3				
929002408308	TForce Core HB	180	3000 K	830	3,000 lm
	30W E27 830	degree(s)			
	GN3				
929002408408	TForce Core HB	180	6500 K	865	3,200 lm
	30W E27 865	degree(s)			
	GN3				
929002408508	TForce Core HB	180	3000 K	830	3,700 lm
	40W E27 830	degree(s)			
	GN3				

Order Code	Full Product Name	Beam Angle	Correlated Color Temperature	Color Code	Luminous Flux
		(Nom)	(Nom)		
929002408208	TForce Core HB	180	6500 K	865	2,700 lm
	25W E27 865	degree(s)			
	GN3				
929002408908	TForce Core HB	180	6500 K	865	5,000 lm
	50W E40 865	degree(s)			
	GN3				
929002409618	TForce Core HB	150	6500 K	865	7,000 lm
	MV ND 60W E40	degree(s)			
	865 GEN3				

Operating and Electrical

Order Code	Full Product Name	Line Frequency	Power
			Consumption
929002408708	TForce Core HB 50W E27 830	50 to 60 Hz	50 W
	GN3		
929002408808	TForce Core HB 50W E27 865	50 to 60 Hz	50 W
	GN3		
929002409918	TForce Core HB MV ND 80W	-	80 W
	E40 865 GEN3		
929002408308	TForce Core HB 30W E27 830	50 to 60 Hz	30 W
	GN3		
929002408408	TForce Core HB 30W E27 865	50 to 60 Hz	30 W
	GN3		

Order Code	Full Product Name	Line Frequency	Power
			Consumption
929002408508	TForce Core HB 40W E27 830	50 to 60 Hz	40 W
	GN3		
929002408208	TForce Core HB 25W E27 865	50 to 60 Hz	25 W
	GN3		
929002408908	TForce Core HB 50W E40 865	50 to 60 Hz	50 W
	GN3		
929002409618	TForce Core HB MV ND 60W	-	60 W
	E40 865 GEN3		

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002408708	TForce Core HB 50W E27 830 GN3	78 °C
929002408808	TForce Core HB 50W E27 865 GN3	78 °C
929002409918	TForce Core HB MV ND 80W E40 865 GEN3	83 °C
929002408308	TForce Core HB 30W E27 830 GN3	75 °C
929002408408	TForce Core HB 30W E27 865 GN3	75 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929002408508	TForce Core HB 40W E27 830 GN3	79 °C
929002408208	TForce Core HB 25W E27 865 GN3	90 °C
929002408908	TForce Core HB 50W E40 865 GN3	78 °C
929002409618	TForce Core HB MV ND 60W E40 865 GEN3	79 °C

Mechanical and Housing

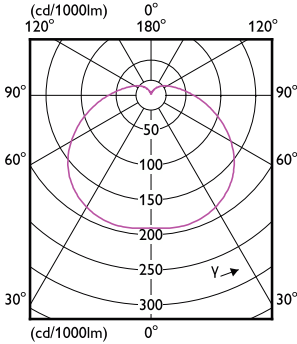
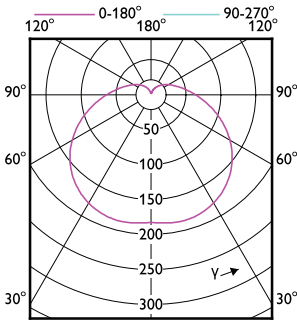
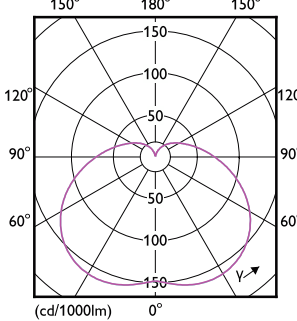
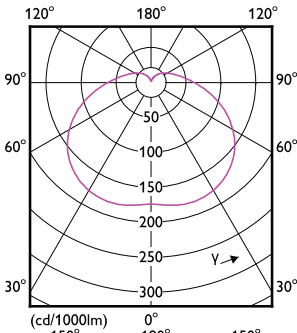
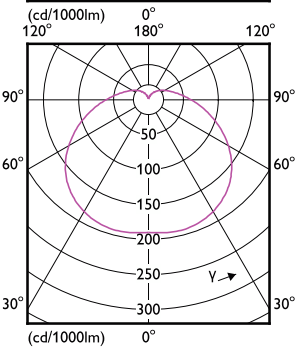
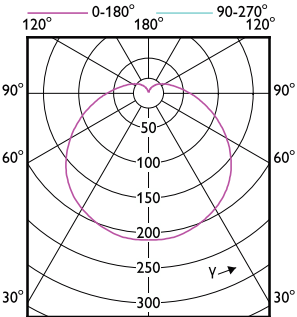
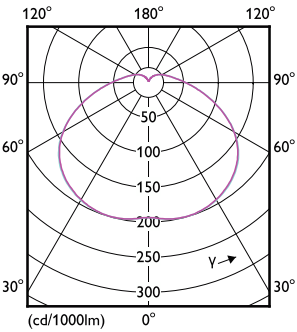
Order Code	Full Product Name	Bulb Shape
929002408708	TForce Core HB 50W E27 830 GN3	T-shape
929002408808	TForce Core HB 50W E27 865 GN3	T-shape
929002409918	TForce Core HB MV ND 80W E40 865 GEN3	T160
929002408308	TForce Core HB 30W E27 830 GN3	T-shape
929002408408	TForce Core HB 30W E27 865 GN3	T-shape

Order Code	Full Product Name	Bulb Shape
929002408508	TForce Core HB 40W E27 830 GN3	T-shape
929002408208	TForce Core HB 25W E27 865 GN3	T-shape
929002408908	TForce Core HB 50W E40 865 GN3	T-shape
929002409618	TForce Core HB MV ND 60W E40 865 GEN3	T140

Approval and Application

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Order Code	Full Product Name	Ambient temperature range
929002408708	TForce Core HB 50W E27 830 GN3	-20 °C to 45 °C
929002408808	TForce Core HB 50W E27 865 GN3	-20 °C to 45 °C
929002409918	TForce Core HB MV ND 80W E40 865 GEN3	-20 to +45 °C
929002408308	TForce Core HB 30W E27 830 GN3	-20 °C to 45 °C
929002408408	TForce Core HB 30W E27 865 GN3	-20 °C to 45 °C
929002408508	TForce Core HB 40W E27 830 GN3	-20 °C to 45 °C
929002408208	TForce Core HB 25W E27 865 GN3	-20 °C to 45 °C
929002408908	TForce Core HB 50W E40 865 GN3	-20 °C to 45 °C
929002409618	TForce Core HB MV ND 60W E40 865 GEN3	-20 to +45 °C



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