



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

Application

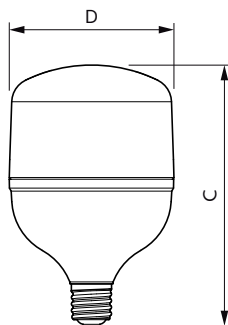
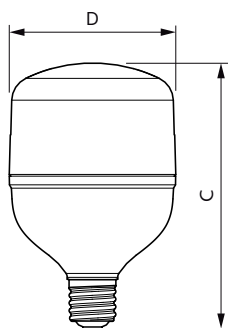
- Industrial/retail – warehouses, factories, shops, transport hubs

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Versions



Dimensional drawing

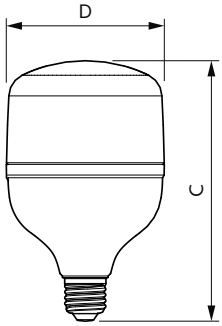


Product	D	C
TrueForce Core HB 65W E40 840 GN3	140 mm	224 mm
TrueForce Core HB 65W E40 865 GN3	140 mm	224 mm
TrueForce Core HB 50W E40 865 GN3	139 mm	224 mm

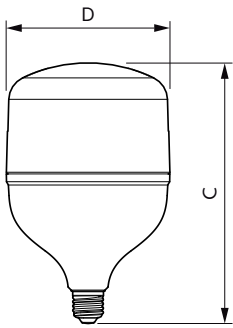
Product	D	C
TrueForce Core HB 80W E40 840 GN3	160 mm	269 mm
TrueForce Core HB 80W E40 865 GN3	160 mm	269 mm

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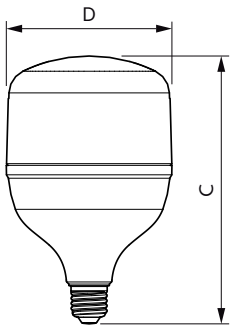
Dimensional drawing



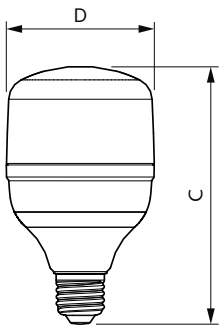
Product	D	C
TrueForce Core HB 30W E27 830 GN3	100 mm	165 mm
TrueForce Core HB 30W E27 865 GN3	100 mm	165 mm



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



Product	D	C
TrueForce Core HB 40W E27 865 GN3	118 mm	193 mm
TrueForce Core HB 40W E27 830 GN3	118 mm	193 mm



Product	D	C
TrueForce Core HB 25W E27 865 GN3	80 mm	139 mm
TrueForce Core HB 25W E27 830 GN3	80 mm	139 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)	220-240 V
Starting Time (Nom)	0.5 s

General information

Switching Cycle	50000
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Light technical

Beam Angle (Nom)	180 °
Colour Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	70 %

Mechanical and housing

Bulb Finish	Frosted
Bulb Shape	T-shape

Temperature

T-Ambient (Max)	45 °C
T-Ambient (Min)	-20 °C

Approval and application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929002408108	TrueForce Core HB 25W E27 830 GN3	- kWh
929002408208	TrueForce Core HB 25W E27 865 GN3	- kWh
929002408308	TrueForce Core HB 30W E27 830 GN3	- kWh
929002408408	TrueForce Core HB 30W E27 865 GN3	- kWh
929002408508	TrueForce Core HB 40W E27 830 GN3	- kWh
929002408608	TrueForce Core HB 40W E27 865 GN3	- kWh
929002408708	TrueForce Core HB 50W E27 830 GN3	- kWh
929002408808	TrueForce Core HB 50W E27 865 GN3	- kWh
929002408908	TrueForce Core HB 50W E40 865 GN3	- kWh
929002409008	TrueForce Core HB 65W E40 840 GN3	65 kWh
929002409108	TrueForce Core HB 65W E40 865 GN3	65 kWh
929002409208	TrueForce Core HB 80W E40 840 GN3	80 kWh
929002409308	TrueForce Core HB 80W E40 865 GN3	80 kWh

Operating and electrical

Order Code	Full Product Name	Wattage	
		Equivalent	Power (Nom)
929002408108	TrueForce Core HB 25W E27 830 GN3	40 W	25 W
929002408208	TrueForce Core HB 25W E27 865 GN3	40 W	25 W
929002408308	TrueForce Core HB 30W E27 830 GN3	45 W	30 W
929002408408	TrueForce Core HB 30W E27 865 GN3	45 W	30 W
929002408508	TrueForce Core HB 40W E27 830 GN3	55 W	40 W
929002408608	TrueForce Core HB 40W E27 865 GN3	55 W	40 W
929002408708	TrueForce Core HB 50W E27 830 GN3	70 W	50 W

Order Code	Full Product Name	Wattage	
		Equivalent	Power (Nom)
929002408808	TrueForce Core HB 50W E27 865 GN3	70 W	50 W
929002408908	TrueForce Core HB 50W E40 865 GN3	70 W	50 W
929002409008	TrueForce Core HB 65W E40 840 GN3	125 W	65 W
929002409108	TrueForce Core HB 65W E40 865 GN3	125 W	65 W
929002409208	TrueForce Core HB 80W E40 840 GN3	150 W	80 W
929002409308	TrueForce Core HB 80W E40 865 GN3	150 W	80 W

General information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime
			(Nom)
929002408108	TrueForce Core HB 25W E27 830 GN3	E27	15000 h
929002408208	TrueForce Core HB 25W E27 865 GN3	E27	15000 h
929002408308	TrueForce Core HB 30W E27 830 GN3	E27	15000 h
929002408408	TrueForce Core HB 30W E27 865 GN3	E27	15000 h

Order Code	Full Product Name	Cap-Base	Nominal Lifetime
			(Nom)
929002408508	TrueForce Core HB 40W E27 830 GN3	E27	15000 h
929002408608	TrueForce Core HB 40W E27 865 GN3	E27	15000 h
929002408708	TrueForce Core HB 50W E27 830 GN3	E27	15000 h
929002408808	TrueForce Core HB 50W E27 865 GN3	E27	15000 h

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Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)
929002408908	TrueForce Core HB 50W E40 865 GN3	E40	15000 h
929002409008	TrueForce Core HB 65W E40 840 GN3	E40	25000 h
929002409108	TrueForce Core HB 65W E40 865 GN3	E40	25000 h

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)
929002409208	TrueForce Core HB 80W E40 840 GN3	E40	25000 h
929002409308	TrueForce Core HB 80W E40 865 GN3	E40	25000 h

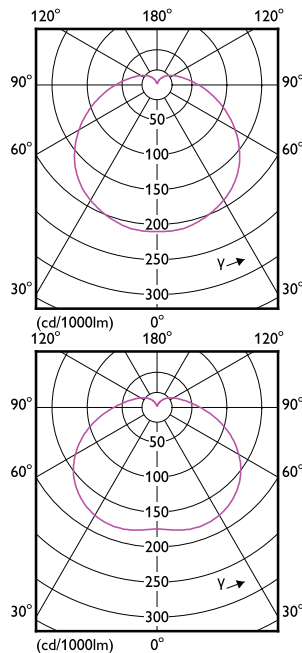
Light technical

Order Code	Full Product Name	Colour Code	Correlated Colour	
			Temperature (Nom)	Luminous Flux (Nom)
929002408108	TrueForce Core HB 25W E27 830 GN3	830	3000 K	2600 lm
929002408208	TrueForce Core HB 25W E27 865 GN3	865	6500 K	2700 lm
929002408308	TrueForce Core HB 30W E27 830 GN3	830	3000 K	3000 lm
929002408408	TrueForce Core HB 30W E27 865 GN3	865	6500 K	3200 lm
929002408508	TrueForce Core HB 40W E27 830 GN3	830	3000 K	3700 lm
929002408608	TrueForce Core HB 40W E27 865 GN3	865	6500 K	4000 lm
929002408708	TrueForce Core HB 50W E27 830 GN3	830	3000 K	4800 lm

Order Code	Full Product Name	Colour Code	Correlated Colour	
			Temperature (Nom)	Luminous Flux (Nom)
929002408808	TrueForce Core HB 50W E27 865 GN3	865	6500 K	5000 lm
929002408908	TrueForce Core HB 50W E40 865 GN3	865	6500 K	5000 lm
929002409008	TrueForce Core HB 65W E40 840 GN3	840	4000 K	7000 lm
929002409108	TrueForce Core HB 65W E40 865 GN3	865	6500 K	7000 lm
929002409208	TrueForce Core HB 80W E40 840 GN3	840	4000 K	9000 lm
929002409308	TrueForce Core HB 80W E40 865 GN3	865	6500 K	9000 lm

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002408108	TrueForce Core HB 25W E27 830 GN3	90 °C
929002408208	TrueForce Core HB 25W E27 865 GN3	90 °C
929002408308	TrueForce Core HB 30W E27 830 GN3	75 °C
929002408408	TrueForce Core HB 30W E27 865 GN3	75 °C
929002408508	TrueForce Core HB 40W E27 830 GN3	79 °C
929002408608	TrueForce Core HB 40W E27 865 GN3	79 °C
929002408708	TrueForce Core HB 50W E27 830 GN3	78 °C
929002408808	TrueForce Core HB 50W E27 865 GN3	78 °C
929002408908	TrueForce Core HB 50W E40 865 GN3	78 °C
929002409008	TrueForce Core HB 65W E40 840 GN3	80 °C
929002409108	TrueForce Core HB 65W E40 865 GN3	80 °C
929002409208	TrueForce Core HB 80W E40 840 GN3	83 °C
929002409308	TrueForce Core HB 80W E40 865 GN3	83 °C



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