



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 HPI EU Tshape E40 1



LEDTForce HPI EU Tshape E40 2

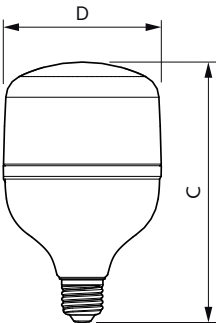
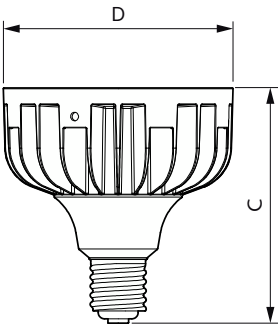
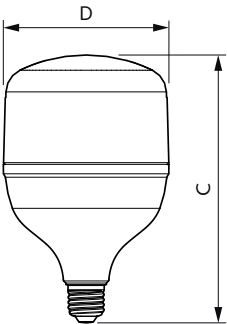


LEDTForce Core Tshape E27 FR 2



LEDTForce Core Tshape E27 FR 3

Dimensional drawing



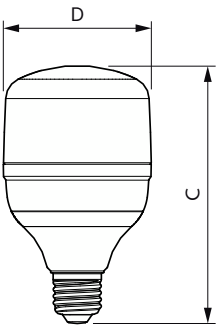
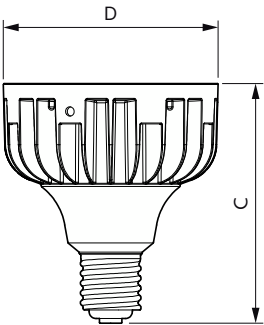
Product	D	C
TForce Core HB MV ND 35W E27 830 G3	118 mm	193 mm
TForce Core HB MV ND 35W E27 840 G3	118 mm	193 mm

Product	D	C
CorePro LED HPI MV 15Klm 105W840E40 100D	162 mm	168 mm

Product	D	C
TForce Core HB MV ND 30W E27 830 G3	100 mm	165 mm
TForce Core HB MV ND 30W E27 840 G3	100 mm	165 mm

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Dimensional drawing



Product	D	C
CorePro LED HPI MV 9Klm 65W 840 E40 100D	140 mm	158 mm

Product	D	C
TForce Core HB MV ND 20W E27 830 G3	80 mm	139 mm
TForce Core HB MV ND 20W E27 840 G3	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
Line Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Shape	T-shape
Approval and Application	
Ambient temperature range	-20 °C to 45 °C

General Information

Order Code	Full Product Name	Cap-Base	Nominal lifetime
42121900	CorePro LED HPI MV 9Klm 65W 840 E40 100D	E40	25,000 hour(s)
42123300	CorePro LED HPI MV 15Klm 105W840E40 100D	E40	25,000 hour(s)
78095100	TrueForce Core HB MV ND 30W E27 830 G3	E27	15,000 hour(s)
78097500	TrueForce Core HB MV ND 30W E27 840 G3	E27	15,000 hour(s)
78105700	TrueForce Core HB MV ND 35W E27 830 G3	E27	15,000 hour(s)
78107100	TrueForce Core HB MV ND 35W E27 840 G3	E27	15,000 hour(s)
78101900	TrueForce Core HB MV ND 20W E27 830 G3	E27	15,000 hour(s)
78103300	TrueForce Core HB MV ND 20W E27 840 G3	E27	15,000 hour(s)

Light Technical

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Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color		
			Temperature (Nom)	Color Code	Luminous Flux
42121900	CorePro LED HPI MV 9Klm 65W 840 E40 100D	100 degree(s)	4000 K	840	9,000 lm
42123300	CorePro LED HPI MV 15Klm 105W840E40 100D	100 degree(s)	4000 K	840	15,000 lm
78095100	TrueForce Core HB MV ND 30W E27 830 G3	180 degree(s)	3000 K	830	3,700 lm
78097500	TrueForce Core HB MV ND 30W E27 840 G3	180 degree(s)	4000 K	840	4,000 lm

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color		
			Temperature (Nom)	Color Code	Luminous Flux
78105700	TrueForce Core HB MV ND 35W E27 830 G3	180 degree(s)	3000 K	830	4,800 lm
78107100	TrueForce Core HB MV ND 35W E27 840 G3	180 degree(s)	4000 K	840	5,000 lm
78101900	TrueForce Core HB MV ND 20W E27 830 G3	150 degree(s)	3000 K	830	2,600 lm
78103300	TrueForce Core HB MV ND 20W E27 840 G3	150 degree(s)	4000 K	840	2,700 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
42121900	CorePro LED HPI MV 9Klm 65W 840 E40 100D	65 W
42123300	CorePro LED HPI MV 15Klm 105W840E40 100D	105 W
78095100	TrueForce Core HB MV ND 30W E27 830 G3	30 W
78097500	TrueForce Core HB MV ND 30W E27 840 G3	30 W

Order Code	Full Product Name	Power Consumption
78105700	TrueForce Core HB MV ND 35W E27 830 G3	35 W
78107100	TrueForce Core HB MV ND 35W E27 840 G3	35 W
78101900	TrueForce Core HB MV ND 20W E27 830 G3	20 W
78103300	TrueForce Core HB MV ND 20W E27 840 G3	20 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
42121900	CorePro LED HPI MV 9Klm 65W 840 E40 100D	71 °C
42123300	CorePro LED HPI MV 15Klm 105W840E40 100D	78 °C
78095100	TrueForce Core HB MV ND 30W E27 830 G3	80 °C
78097500	TrueForce Core HB MV ND 30W E27 840 G3	80 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
78105700	TrueForce Core HB MV ND 35W E27 830 G3	76 °C
78107100	TrueForce Core HB MV ND 35W E27 840 G3	76 °C
78101900	TrueForce Core HB MV ND 20W E27 830 G3	80 °C
78103300	TrueForce Core HB MV ND 20W E27 840 G3	80 °C

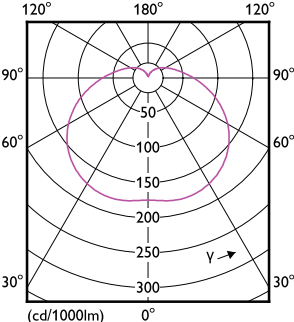
Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
42121900	CorePro LED HPI MV 9Klm 65W 840 E40 100D	Clear
42123300	CorePro LED HPI MV 15Klm 105W840E40 100D	Clear
78095100	TrueForce Core HB MV ND 30W E27 830 G3	Frosted
78097500	TrueForce Core HB MV ND 30W E27 840 G3	Frosted

Order Code	Full Product Name	Bulb Finish
78105700	TrueForce Core HB MV ND 35W E27 830 G3	Frosted
78107100	TrueForce Core HB MV ND 35W E27 840 G3	Frosted
78101900	TrueForce Core HB MV ND 20W E27 830 G3	Frosted
78103300	TrueForce Core HB MV ND 20W E27 840 G3	Frosted

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
42121900	CorePro LED HPI MV 9Klm 65W 840 E40 100D	65 kWh
42123300	CorePro LED HPI MV 15Klm 105W840E40 100D	105 kWh
78095100	TrueForce Core HB MV ND 30W E27 830 G3	30 kWh
78097500	TrueForce Core HB MV ND 30W E27 840 G3	30 kWh
78105700	TrueForce Core HB MV ND 35W E27 830 G3	35 kWh
78107100	TrueForce Core HB MV ND 35W E27 840 G3	35 kWh
78101900	TrueForce Core HB MV ND 20W E27 830 G3	20 kWh
78103300	TrueForce Core HB MV ND 20W E27 840 G3	20 kWh



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