



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

TrueForce Core HB MV ND 20W E27 830 G3

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.

Product data

General Information		Operating and Electrical	
Cap base	E27 [E27]	Colour designation	White (WH)
Nominal lifetime	15,000 h	Correlated Colour Temperature	3000 K
Switching Cycle	50,000	Luminous efficacy (rated) (nom.)	130.00 lm/W
Lighting Technology	LED	Colour consistency	<6
Flux measurement reference	Sphere	Colour rendering index (CRI)	80
CE mark	Yes	LLMF at end of nominal lifetime (nom.)	70 %
EU RoHS compliant	Yes		
Light Technical		Line Frequency	50 to 60 Hz
Colour Code	830 [CCT of 3000K]	Input frequency	50 to 60 Hz
Beam angle (nom.)	150 degree(s)	Power Consumption	20 W
Luminous Flux	2,600 lm	Lamp current (nom.)	170 mA
		Starting time (nom.)	0.5 s

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Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.5
Voltage (nom.)	220-240 V
Max. lamp no. on MCB B type 10A — Mains	16
Max. lamp no. on MCB B type 10A — EM ballast without Comp. Cap.	-
Max. lamp no. on MCB B type 10A — EM ballast with Comp. Cap.	-
Max. lamp no. on MCB B type 16A — Mains	26
Max. lamp no. on MCB B type 16A — EM ballast without Comp. Cap.	-
Max. lamp no. on MCB B type 16A — EM ballast with Comp. Cap.	-

Temperature

Ambient temperature range	-20°C to 45°C
T-Case maximum (nom.)	80 °C

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Frosted
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Bulb shape	T-shape
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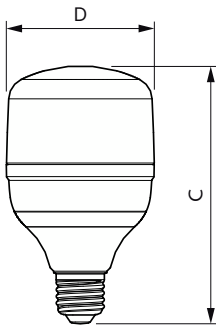
Approval and Application

Energy Efficiency Class	E
Energy consumption kWh/1,000 hours	20 kWh
EPREL registration number	403628

Product Data

Order product name	TForce Core HB MV ND 20W E27 830 G3
Full product name	TrueForce Core HB MV ND 20W E27 830 G3
Full EOC	871869978101900
Order code	78101900
Material no. (12 NC)	929002405702
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8718699781019
Numerator – packs per outer box	6
EAN/UPC - Case	8718699781026

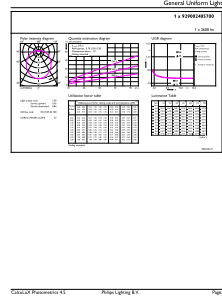
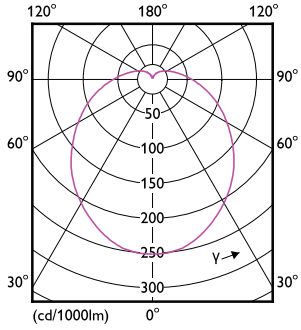
Dimensional drawing



Product	D	C
TForce Core HB MV ND 20W E27 830 G3	80 mm	139 mm

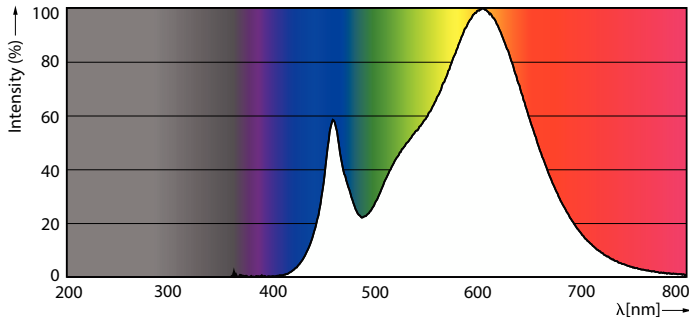
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Photometric data



Light Distribution Diagram - TForce Core HB MV ND 20W E27 830 G3

General uniform lighting - TForce Core HB MV ND 20W E27 830 G3



Spectral Power Distribution Colour - TForce Core HB MV ND 20W E27 830 G3

Lifetime



Life Expectancy Diagram - TForce Core HB MV ND 20W E27 830 G3



Lumen Maintenance Diagram - TForce Core HB MV ND 20W E27 830 G3

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