





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

TForce 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 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.

Product data

General Information		
Cap-Base	E27	
Nominal lifetime	15,000 hour(s)	
Switching Cycle	50,000	
Lighting Technology	LED	
Flux measurement reference	Sphere	
Light Technical		
Color Code	830 [CCT of 3000K]	
Beam Angle (Nom)	150 degree(s)	
Luminous Flux	2,600 lm	
Color Designation	White (WH)	
Correlated Color Temperature (Nom)	3000 K	

Luminous Efficacy (rated) (Nom)	130.00 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	20 W
Lamp Current (Nom)	170 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.5

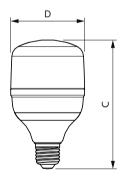
Datasheet, 2025, March 17 data subject to change

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Voltage (Nom)	220-240 V
Ballast Compatibility	Mains
Inrush current at mains	13.5
Max. lamp no. on MCB B type 10A - Mains	16
Max. lamp no. on MCB B type 10A – EM ballast	-
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	-
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	26
Max. lamp no. on MCB B type 16A – EM ballast	-
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A – EM ballast	-
with Compensation Capacitor.	
with Compensation Capacitor.	
with Compensation Capacitor. Temperature	
	80 °C
Temperature	80 °C
Temperature	80 °C
Temperature T-Case Maximum (Nom)	80 °C
Temperature T-Case Maximum (Nom) Controls and Dimming	
Temperature T-Case Maximum (Nom) Controls and Dimming	
Temperature T-Case Maximum (Nom) Controls and Dimming Dimmable	
Temperature T-Case Maximum (Nom) Controls and Dimming Dimmable Mechanical and Housing	No
Temperature T-Case Maximum (Nom) Controls and Dimming Dimmable Mechanical and Housing Bulb Finish	No Frosted

Approval and Application		
Energy Efficiency Class	E	
Energy Consumption kWh/1000 h	20 kWh	
EPREL Registration Number	1744991	
CE mark	Yes	
EU RoHS compliant	Yes	
Ambient temperature range	-20 °C to 45 °C	
Product Data		
Order product name	TForce Core HB MV ND 20W E27	
	830 G3	
Full product name	TForce Core HB MV ND 20W E27	
	830 G3	
Full product code	871869978101900	
Order code	929002405702	
Material Nr. (12NC)	929002405702	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8718699781019	
Numerator - Packs per outer box	6	
EAN/UPC - Case	8718699781026	
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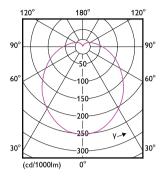
Dimensional drawing

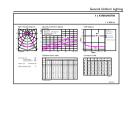


Product	D	С
TForce Core HB MV ND 20W E27 830 G3	80 mm	139 mm

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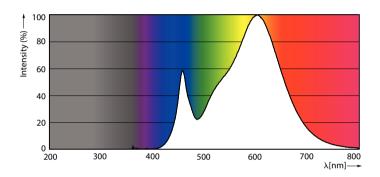
Photometric data





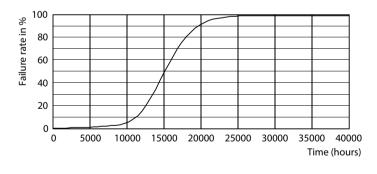
Light Distribution Diagram - TForce Core HB MV ND 20W E27 830 G3

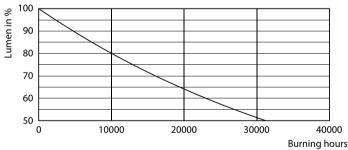
General uniform lighting - TForce Core HB MV ND 20W E27 830 G3



Spectral Power Distribution Colour - TForce Core HB MV ND 20W E27 830 ${\sf G3}$

Lifetime





Life Expectancy Diagram

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

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