



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

TForce Core HB MV ND 20W E27 840 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		Operating and Electrical	
Cap-Base	E27	Luminous Efficacy (rated) (Nom)	135.00 lm/W
Nominal lifetime	15,000 hour(s)	Color Consistency	<6
Switching Cycle	50,000	Color rendering index (CRI)	80
Lighting Technology	LED	LLMF At End Of Nominal Lifetime (Nom)	70 %
Flux measurement reference	Sphere	Line Frequency	50 to 60 Hz
Light Technical		Input Frequency	50 to 60 Hz
Color Code	840 [CCT of 4000K]	Power Consumption	20 W
Beam Angle (Nom)	150 degree(s)	Lamp Current (Nom)	170 mA
Luminous Flux	2,700 lm	Starting Time (Nom)	0.5 s
Color Designation	Cool White (CW)	Warm-up time to 60% light	0.5 s
Correlated Color Temperature (Nom)	4000 K	Power Factor (Fraction)	0.5

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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.	-

Temperature

T-Case Maximum (Nom)	80 °C
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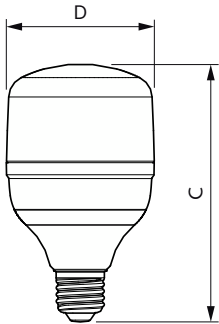
Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	T-shape
Net Weight (Piece)	0.048 kg

Dimensional drawing



Approval and Application

Energy Efficiency Class	D
Energy Consumption kWh/1000 h	20 kWh
EPREL Registration Number	1744994
CE mark	Yes
EU RoHS compliant	Yes
Ambient temperature range	-20 °C to 45 °C

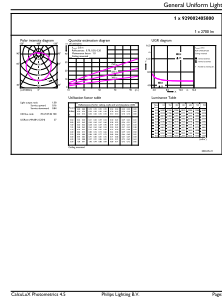
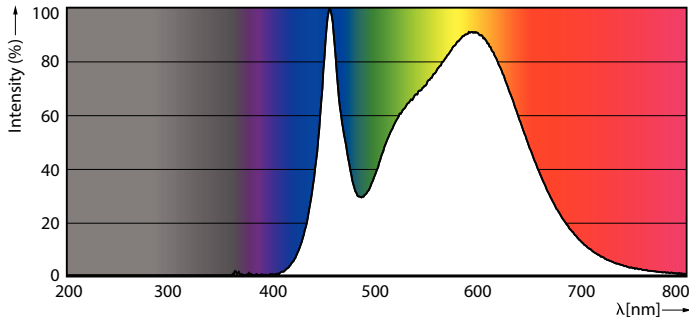
Product Data

Order product name	TForce Core HB MV ND 20W E27 840 G3
Full product name	TForce Core HB MV ND 20W E27 840 G3
Full product code	871869978103300
Order code	929002405802
Material Nr. (12NC)	929002405802
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699781033
Numerator - Packs per outer box	6
EAN/UPC - Case	8718699781040

Product	D	C
TForce Core HB MV ND 20W E27 840 G3	80 mm	139 mm

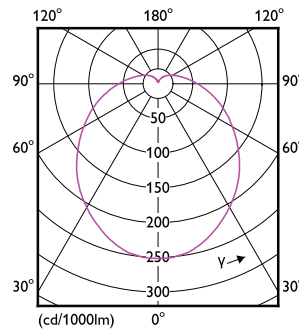
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Photometric data



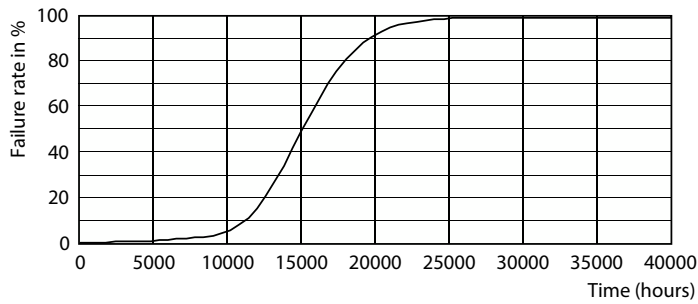
Spectral Power Distribution Colour - TForce Core HB MV ND 20W E27 840 G3

General uniform lighting - TForce Core HB MV ND 20W E27 840 G3

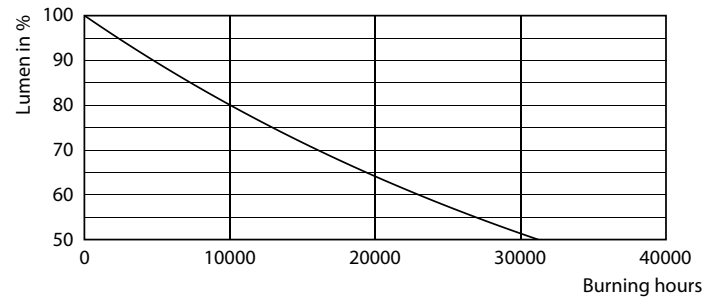


Light Distribution Diagram - TForce Core HB MV ND 20W E27 840 G3

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce Core HB MV ND 20W E27 840 G3

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