



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

## TFCore 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		Color Designation	
Cap-Base	E27	Color Designation	Cool White (CW)
Nominal lifetime	15,000 hour(s)	Correlated Color Temperature (Nom)	4000 K
Switching Cycle	50,000	Luminous Efficacy (rated) (Nom)	135.00 lm/W
Lighting Technology	LED	Color Consistency	<6
Flux measurement reference	Sphere	Color rendering index (CRI)	80
CE mark	Yes	LLMF At End Of Nominal Lifetime (Nom)	70 %
EU RoHS compliant	Yes	Operating and Electrical	
Light Technical		Line Frequency	50 to 60 Hz
Color Code	840 [CCT of 4000K]	Input Frequency	50 to 60 Hz
Beam Angle (Nom)	150 degree(s)	Power Consumption	20 W
Luminous Flux	2,700 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
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 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.	-
Ballast Compatibility	Mains

### 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

Bulb Finish	Frosted
Bulb Shape	T-shape

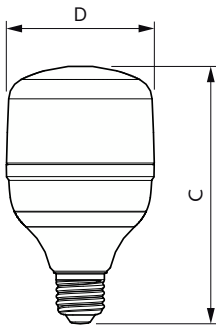
### Approval and Application

Energy Efficiency Class	D
Energy Consumption kWh/1000 h	20 kWh
EPREL Registration Number	403629

### 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

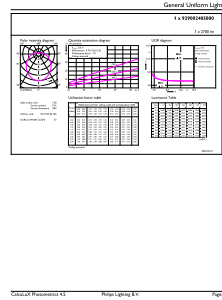
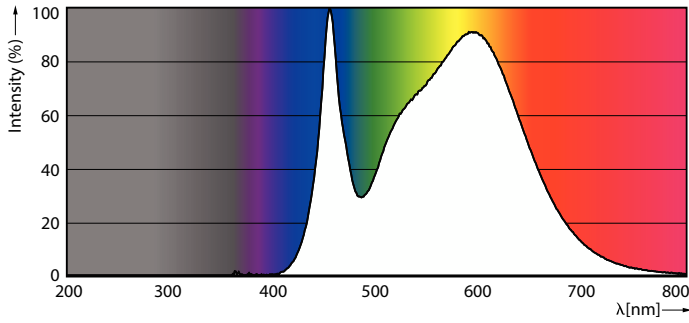
### Dimensional drawing



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

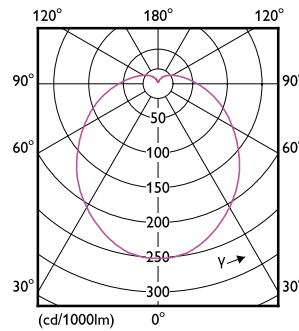
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## Photometric data



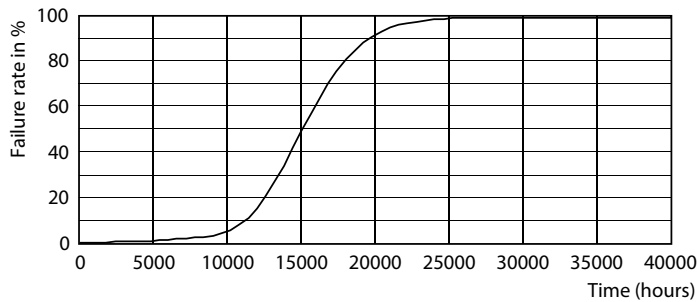
Spectral Power Distribution Colour - TForce Core HB MV ND 20W E27 840 G3

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

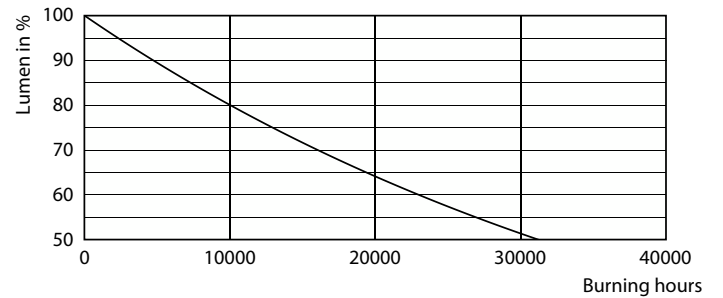


Light Distribution Diagram - TForce Core HB MV ND 20W E27 840 G3

## Lifetime



Life Expectancy Diagram - TForce Core HB MV ND 20W E27 840 G3



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

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