



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

TrueForce LED HB MV ND 120-100W E40 840 NB

Philips TrueForce LED Industrial & Retail mains 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 LED I&R mains lamps and bypass the existing ballast while enhancing the lighting quality.

Product data

General Information	
Cap base	E40 [E40]
Nominal lifetime	50,000 h
Switching Cycle	50,000
Lighting Technology	LED
EU RoHS compliant	Yes
Light Technical	
Colour Code	840 [CCT of 4000K]
Beam angle (nom.)	60 degree(s)
Luminous Flux	12,000 lm
Colour designation	Cool White (CW)
Correlated Colour Temperature	4000 K

Luminous efficacy (rated) (nom.)	120.00 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80
LLMF at end of nominal lifetime (nor	n.) 70 %
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	100 W
Lamp current (nom.)	520 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9

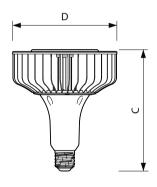
Datasheet, 2023, April 29 data subject to change

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Voltage (nom.)	220-240 V
Temperature	
T-Case maximum (nom.)	70 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb shape	Others
Approval and Application	
Energy consumption kWh/1,000 hours	100 kWh

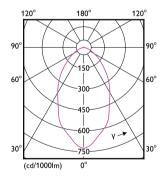
Product Data		
Order product name	TForce LED HB MV ND 120-100W E40 840 NB	
Full product name	TrueForce LED HB MV ND 120-100W E40 840	
	NB	
Full EOC	871869959676700	
Order code	59676700	
Material no. (12 NC)	929001929702	
SAP numerator – quantity per pack	1	
EAN/UPC — Product/Case	8718699596767	
Numerator – packs per outer box	2	
EAN/UPC - Case	8718699596774	

Dimensional drawing

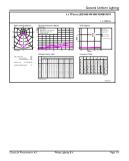


Product	D	С
TForce LED HB MV ND 120-100W E40 840 NB	211 mm	252 mm

Photometric data



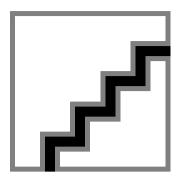




General uniform lighting - TForce LED HB MV ND 120-100W E40 840 NB

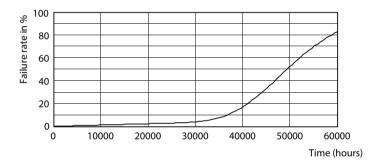
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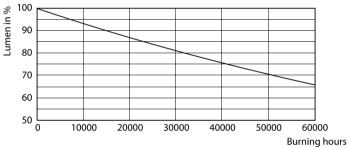
Photometric data



Spectral Power Distribution Colour - TForce LED HB MV ND 120-100W E40 $\,$ 840 NB

Lifetime





Life Expectancy Diagram - TForce LED HB MV ND 120-100W E40 840 NB $\,$

Lumen Maintenance Diagram - TForce LED HB MV ND 120-100W E40 840 NR



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