PHILIPS Lighting



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

TrueForce Core HB 200-160W E40 840 NB GM

Philips TrueForce LED Industrial and Retail lamps give you a quick and easy payback solution to replace HID lamps in High-bay applications. The solution gives you the LED benefits of energy-efficiency and long-lifetime, plus the initial investment is low. With unique lamp design and compatibility, you can directly retrofit HID lamps with TrueForce LED lamps without changing the fixtures or gear. Multiple beam angle options and high colour-rendering index enhance the lighting distribution while creating a comfortable, safe and high-productivity environment.

Warnings and Safety

• EM version requires an EM ballast to operate. Please refer to the installation guide or consult a Philips Lighting representative.

Product data

General Information		Luminous Flux	20,000 lm
Cap-Base	E40 [E40]	Color Designation	Cool White (CW)
Nominal lifetime	25,000 hour(s)	Correlated Color Temperature (Nom)	4000 K
Switching Cycle	50,000	Luminous Efficacy (rated) (Nom)	125.00 lm/W
Lighting Technology	LED	Color Consistency	<6
EU RoHS compliant	Yes	Color rendering index (CRI)	80
		LLMF At End Of Nominal Lifetime (No	m) 70 %
Light Technical			
Color Code	840 [CCT of 4000K]	Operating and Electrical	
Beam Angle (Nom)	70 degree(s)	Line Frequency	50 to 60 Hz

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

Input Frequency	50 to 60 Hz
Power Consumption	160 W
Lamp Current (Nom)	1,900 mA
Starting Time (Nom)	0.7 s
Warm-up time to 60% light	0.7 s
Power Factor (Fraction)	0.9
Voltage (Nom)	110-277 V
Temperature	
T-Case Maximum (Nom)	100 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T50 [T 50mm]

Energy Consumption kWh/1000 h	– kWh	
Product Data		
Order product name	TForce Core HB 200-160W E40 840 NB GM	
Full product name	TrueForce Core HB 200-160W E40 840 NB	
	GM	
Full product code	871869676932400	
Order code	76932400	
Material Nr. (12NC)	929001812408	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8718696769324	
Numerator - Packs per outer box	2	
EAN/UPC - Case	8718696769331	

Approval and Application

Product

Dimensional drawing



TForce Core HB 200-160W E40 840 NB GM	211 mm	263 mm

D

с

Photometric data



General Uniform Lipting

Light Distribution Diagram - TForce Core HB 200-160W E40 840 NB GM

General uniform lighting - TForce Core HB 200-160W E40 840 NB GM

Sage: 1/1

CalcuLuX R

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

Photometric data



Spectral Power Distribution Colour - TForce Core HB 200-160W E40 840 NB GM

Lifetime







Lumen Maintenance Diagram - TForce Core HB 200-160W E40 840 NB GM

Life Expectancy Diagram - TForce Core HB 200-160W E40 840 NB GM

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



© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.

www.lighting.philips.com 2023, May 1 - data subject to change