



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

TForce 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			
Cap-Base	E40 [E40]	Luminous Flux	20,000 lm
Nominal lifetime	25,000 hour(s)	Color Designation	Cool White (CW)
Switching Cycle	50,000	Correlated Color Temperature (Nom)	4000 K
Lighting Technology	LED	Luminous Efficacy (rated) (Nom)	125.00 lm/W
EU RoHS compliant	Yes	Color Consistency	<6
		Color rendering index (CRI)	80
		LLMF At End Of Nominal Lifetime (Nom)	70 %
Light Technical		Operating and Electrical	
Color Code	840 [CCT of 4000K]	Line Frequency	50 to 60 Hz
Beam Angle (Nom)	70 degree(s)		

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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
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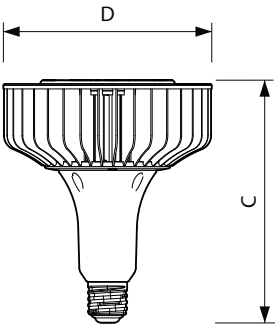
Controls and Dimming

Dimmable	No
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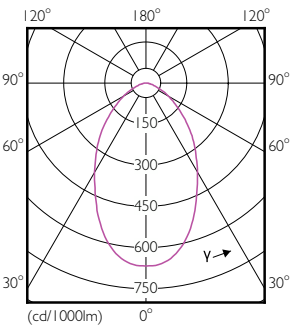
Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	T50 [T 50mm]

Dimensional drawing



Photometric data



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

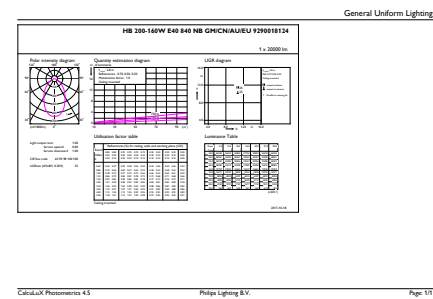
Approval and Application

Energy Consumption kWh/1000 h	- kWh
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Product Data

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

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



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

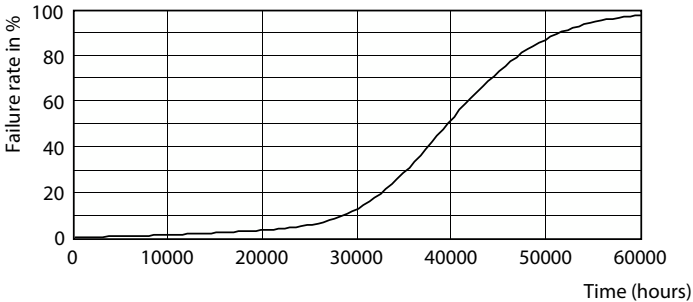
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Photometric data

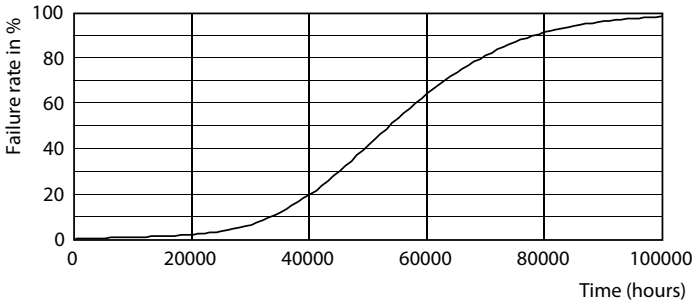


Spectral Power Distribution Colour - TForce Core HB 200-160W E40 840 NB GM

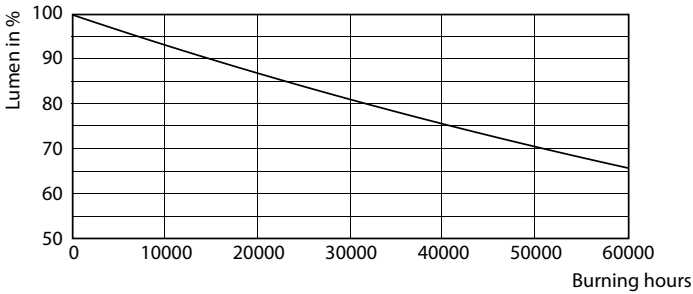
Lifetime



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



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



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

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