

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

TrueForce HB 100-85W E40 840 120D 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]
Nominal lifetime	25,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
EU RoHS compliant	Yes

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	120 degree(s)

Luminous Flux	10,000 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	117.00 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and Electrical	
Line Frequency	50 to 60 Hz

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Input Frequency	50 to 60 Hz
Power Consumption	85 W
Lamp Current (Nom)	715 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	110-277 V

Temperature	
T-Case Maximum (Nom)	90 °C

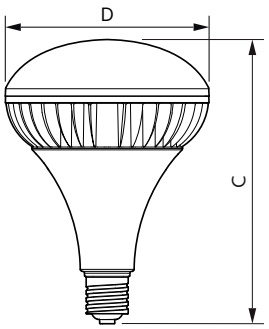
Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	Others

Approval and Application	
Energy Consumption kWh/1000 h	85 kWh

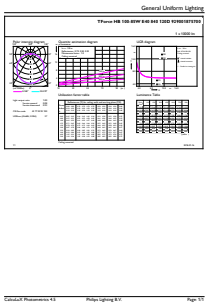
Product Data	
Order product name	TForce HB 100-85W E40 840 120D GM
Full product name	TrueForce HB 100-85W E40 840 120D GM
Full product code	871869682656000
Order code	82656000
Material Nr. (12NC)	929001875708
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696826560
Numerator - Packs per outer box	2
EAN/UPC - Case	8718696826577

Dimensional drawing

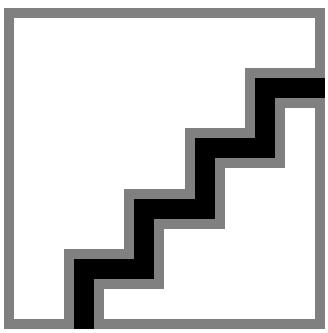


Product	D	C
TForce HB 100-85W E40 840 120D GM	190 mm	270 mm

Photometric data



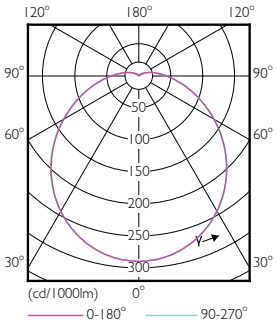
General uniform lighting - TForce HB 100-85W E40 840 120D GM



Spectral Power Distribution Colour - TForce HB 100-85W E40 840 120D GM

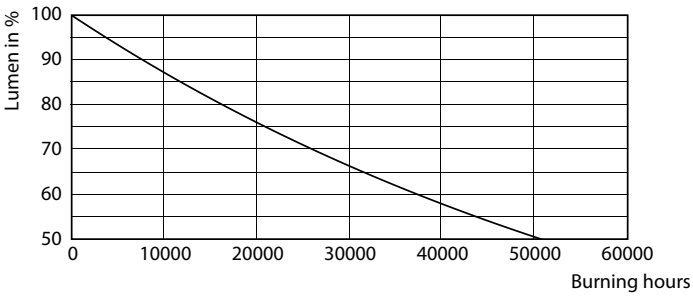
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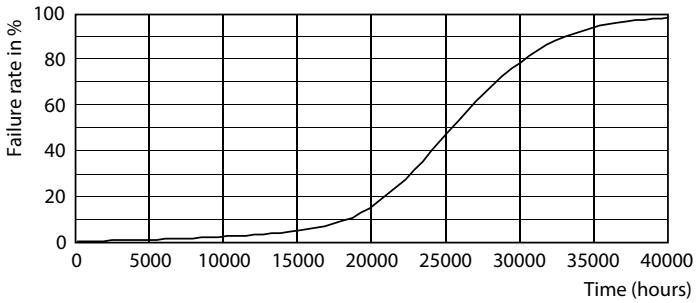


Light Distribution Diagram - TForce HB 100-85W E40 840 120D GM

Lifetime



Lumen Maintenance Diagram - TForce HB 100-85W E40 840 120D GM



Life Expectancy Diagram - TForce HB 100-85W E40 840 120D GM

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