



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

TForce ESS LED HB MV 2Klm 20W 865 E27

LED, T70, Mains only, 20 W, E27, 6500 K, 2000 lm, 15000 hour(s)

Philips TrueForce LED Industrial and Retail lamps give you a quick and easy payback solution to replace HID lamps in Highbay application. The solution gives you the LED benefits of energy-efficiency and long-lifetime, plus they come for a low initial investment. 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	E27
Nominal lifetime	15,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED

Light Technical	
Color Code	865 [CCT of 6500K]
Beam Angle (Nom)	180 degree(s)
Luminous Flux	2,000 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K

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Luminous Efficacy (rated) (Nom)	100 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
Input Frequency	50 to 60 Hz
Power Consumption	20 W
Lamp Current (Nom)	150 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.5
Voltage (Nom)	220-240 V
Ballast Compatibility	Mains only

Temperature

T-Case Maximum (Nom)	82 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Frosted
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Bulb Shape	T70
Net Weight (Piece)	0.055 kg

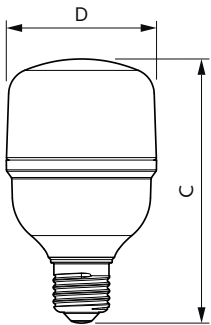
Approval and Application

Energy Saving Product	Yes
Energy Consumption kWh/1000 h	20 kWh
EU RoHS compliant	Yes
Ambient temperature range	-20 °C to 45 °C

Product Data

Order product name	TForce ESS LED HB MV 2Klm 20W 865 E27
Full product name	TForce ESS LED HB MV 2Klm 20W 865 E27
Full product code	872016919015300
Order code	929003631808
Material Nr. (12NC)	929003631808
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169190153
Numerator - Packs per outer box	6
EAN/UPC - Case	8720169190160

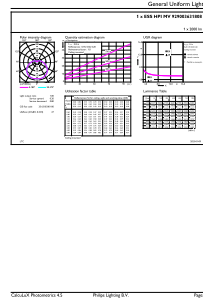
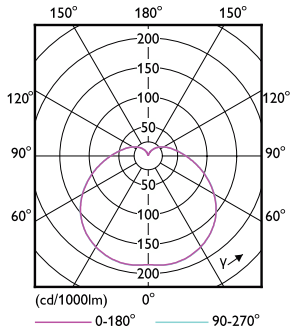
Dimensional drawing



Product	D	C
TForce ESS LED HB MV 2Klm 20W 865 E27	72 mm	125 mm

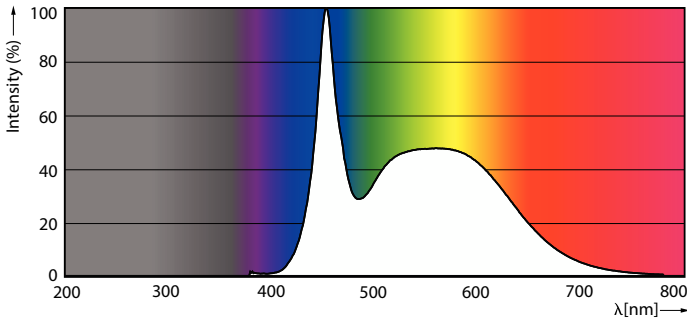
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Photometric data



Light Distribution Diagram - TForce ESS LED HB MV 2Klm 20W 865 E27

General uniform lighting - TForce ESS LED HB MV 2Klm 20W 865 E27



Spectral Power Distribution Colour - TForce ESS LED HB MV 2Klm 20W 865 E27

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce ESS LED HB MV 2Klm 20W 865 E27

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