



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

## TForce ESS LED HB MV 4.5Klm 45W 865 E27

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		Operating and Electrical	
Cap-Base	E27	Luminous Efficacy (rated) (Nom)	100 lm/W
Nominal lifetime	15,000 hour(s)	Color Designation	Cool Daylight
Switching Cycle	50,000	Correlated Color Temperature (Nom)	6500 K
Lighting Technology	LED	Color Consistency	<6
		Color rendering index (CRI)	80
		LLMF At End Of Nominal Lifetime (Nom)	70 %
Light Technical			
Color Code	865 [CCT of 6500K]	Line Frequency	50 to 60 Hz
Beam Angle (Nom)	180 degree(s)	Input Frequency	50 to 60 Hz
Luminous Flux	4,500 lm		

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Power Consumption	45 W
Lamp Current (Nom)	356 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

## Temperature

Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	77 °C

## Controls and Dimming

Dimmable	No
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## Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	T120

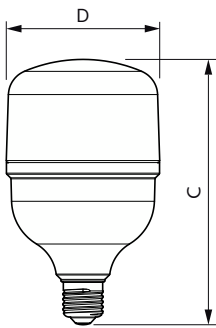
## Approval and Application

EU RoHS compliant	Yes
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## Product Data

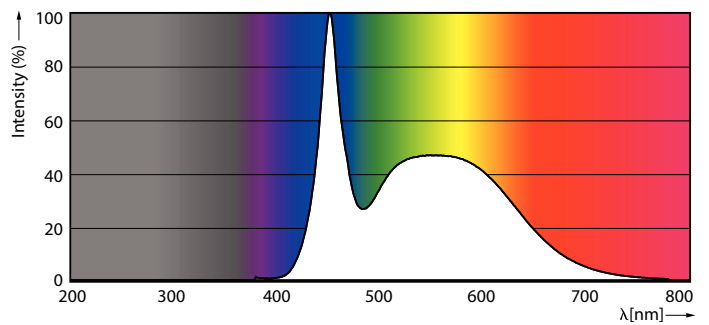
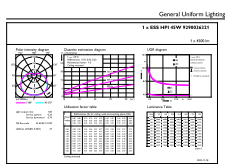
Order product name	TForce ESS LED HB MV 4.5Klm 45W 865 E27
Full product name	TForce ESS LED HB MV 4.5Klm 45W 865 E27
Full product code	872016919021400
Order code	929003632108
Material Nr. (12NC)	929003632108
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.142 kg
EAN/UPC - Product/Case	8720169190214
Numerator - Packs per outer box	6
EAN/UPC - Case	8720169190221

## Dimensional drawing



Product	D	C
TForce ESS LED HB MV 4.5Klm 45W 865 E27	121 mm	199 mm

## Photometric data

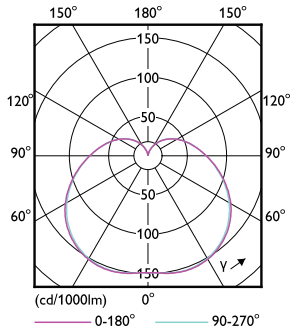


General uniform lighting - TForce ESS LED HB MV 4.5Klm 45W 865 E27

Spectral Power Distribution Colour - TForce ESS LED HB MV 4.5Klm 45W 865 E27

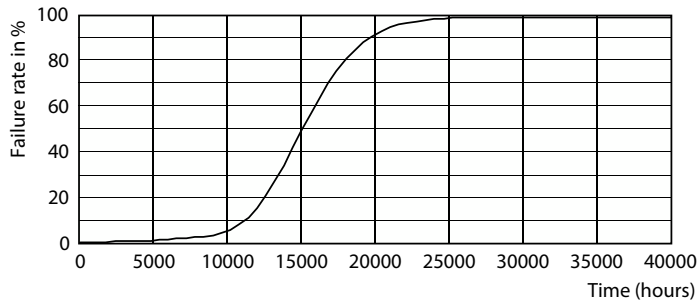
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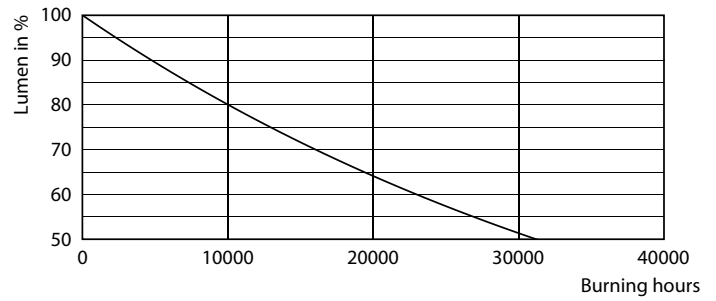


Light Distribution Diagram - TForce ESS LED HB MV 4.5Klm 45W 865 E27

## Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce ESS LED HB MV 4.5Klm 45W 865 E27

