



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

TrueForce LED HPI ND 110-88W E40 840 60D

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	E40 [E40]	Luminous Flux	11,000 lm
Nominal lifetime	50,000 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 Hz
Beam Angle (Nom)	60 degree(s)		

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Input Frequency	50 Hz
Power Consumption	88 W
Lamp Current (Nom)	2,500 mA
Starting Time (Nom)	1.2 s
Warm-up time to 60% light	1.2 s
Power Factor (Fraction)	0.7
Voltage (Nom)	100-145 V

Temperature

T-Case Maximum (Nom)	90 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Shape	Others
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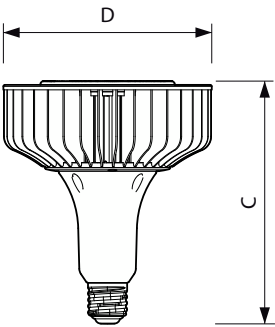
Approval and Application

Energy Consumption kWh/1000 h	97 kWh
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Product Data

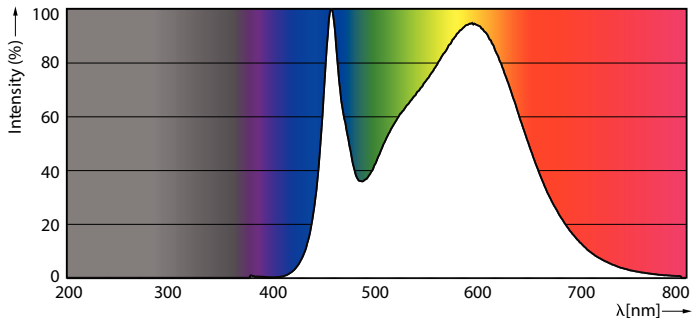
Order product name	TForce LED HPI ND 110-88W E40 840 60D
Full product name	TrueForce LED HPI ND 110-88W E40 840 60D
Full product code	871869671378500
Order code	71378500
Material Nr. (12NC)	929001356802
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696713785
Numerator - Packs per outer box	2
EAN/UPC - Case	8718696713792

Dimensional drawing

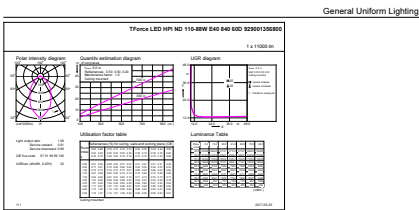


Product	D	C
TForce LED HPI ND 110-88W E40 840 60D	210 mm	250 mm

Photometric data



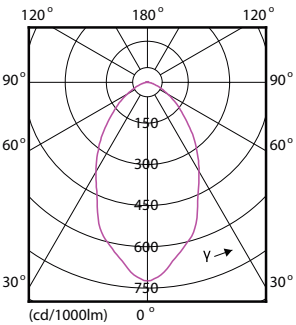
Spectral Power Distribution Colour - TForce LED HPI ND 110-88W E40 840 60D



General uniform lighting - TForce LED HPI ND 110-88W E40 840 60D

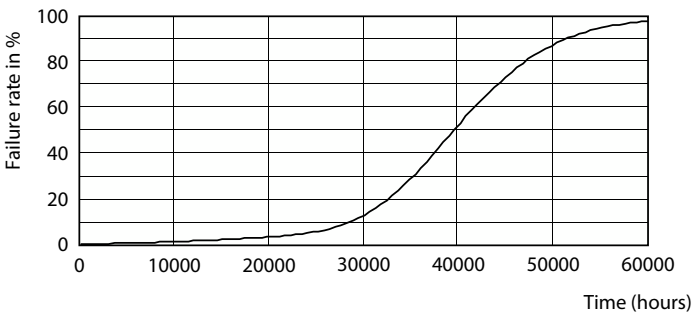
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Photometric data

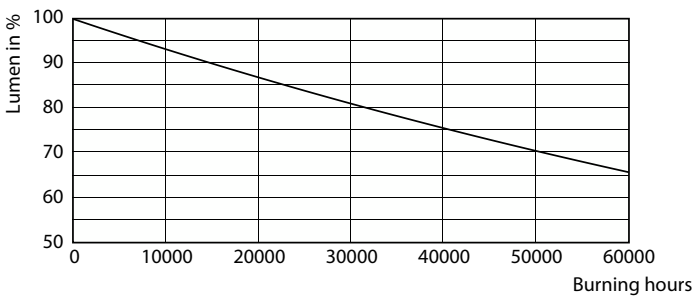


Light Distribution Diagram - TForce LED HPI ND 110-88W E40 840 60D

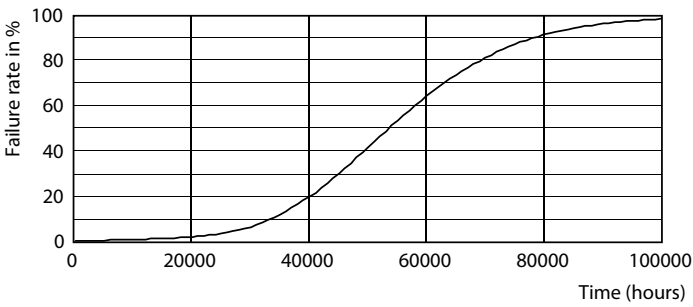
Lifetime



Life Expectancy Diagram - TForce LED HPI ND 110-88W E40 840 60D



Lumen Maintenance Diagram - TForce LED HPI ND 110-88W E40 840 60D



Life Expectancy Diagram - TForce LED HPI ND 110-88W E40 840 60D

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