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

TForce LED HPI ND 110-88W E40 840 120D

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	50,000 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	11,000 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	125.00 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and Electrical	
Line Frequency	50 Hz

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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

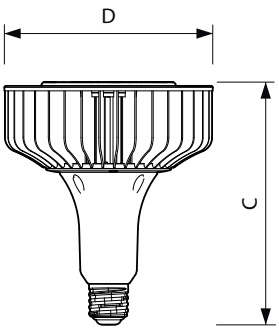
Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Bulb Shape	Others

Approval and Application	
Energy Consumption kWh/1000 h	97 kWh

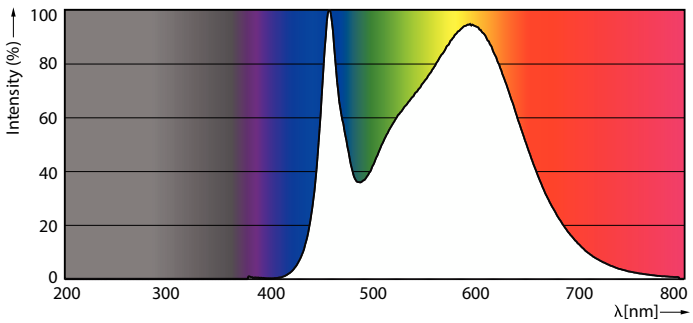
Product Data	
Order product name	TForce LED HPI ND 110-88W E40 840 120D
Full product name	TForce LED HPI ND 110-88W E40 840 120D
Full product code	871869671382200
Order code	929001356902
Material Nr. (12NC)	929001356902
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696713822
Numerator - Packs per outer box	2
EAN/UPC - Case	8718696713839

Dimensional drawing

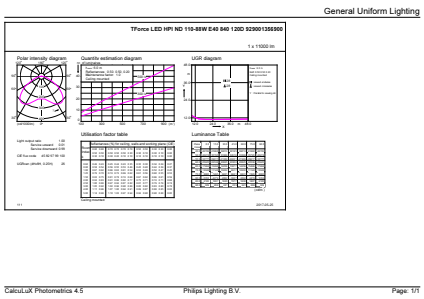


Product	D	C
TForce LED HPI ND 110-88W E40 840 120D	210 mm	250 mm

Photometric data



Spectral Power Distribution Colour - TForce LED HPI ND 110-88W E40 840 120D



General uniform lighting - TForce LED HPI ND 110-88W E40 840 120D

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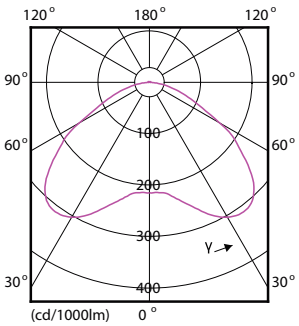
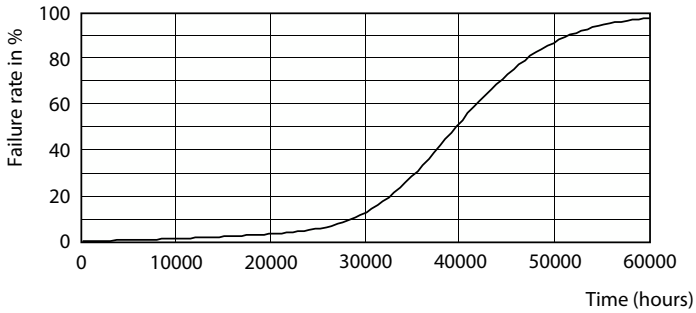
Photometric data

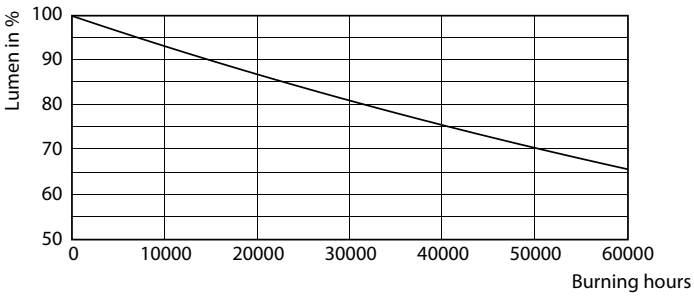


Light Distribution Diagram - TForce LED HPI ND 110-88W E40 840 120D

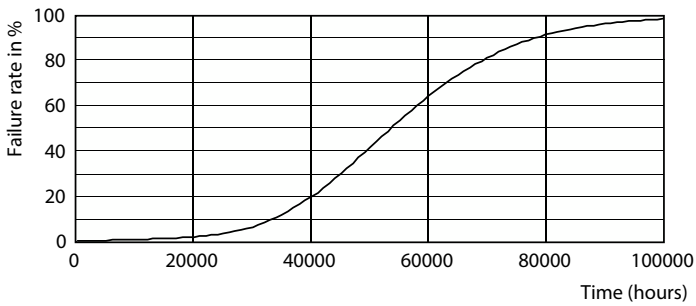
Lifetime



Life Expectancy Diagram - TForce LED HPI ND 110-88W E40 840 120D



Lumen Maintenance Diagram - TForce LED HPI ND 110-88W E40 840 120D



Life Expectancy Diagram - TForce LED HPI ND 110-88W E40 840 120D

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