



# 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 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		Operating and Electrical	
Cap base	E40 [ E40]	Lamp Luminous Flux 25°C EL (Nom)	11000 lm
EU RoHS compliant	Yes	Colour Designation	Cool White (CW)
Nominal lifetime (nom.)	50000 h	Colour Temperature, horizontal (Nom)	4000 K
Switching cycle	50,000X	Lamp Luminous Efficacy EM (Nom)	125.00 lm/W
Technical type	88-250W	Colour consistency	<6
		Colour Rendering Index, horiz (Nom)	80
		LLMF at end of nominal lifetime (nom.)	70 %
Light Technical			
Colour Code	840 [ CCT of 4,000 K]	Input frequency	50 Hz
Technical Beam Angle (Nom)	60 °		

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Power (Rated) (Nom)	88 W
Lamp current (nom.)	2500 mA
Wattage equivalent	250 W
Starting time (nom.)	1.2 s
Warm-up time to 60% light (nom.)	1.2 s
Power factor (nom.)	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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## Approval and Application

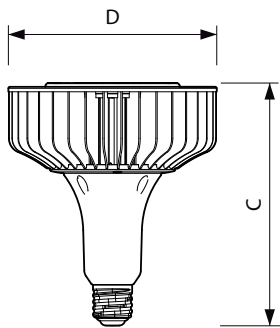
Energy efficiency label (EEL)	A+
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Energy consumption kWh/1,000 hours	97 kWh
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## Product Data

Full product code	871869671378500
Order product name	TrueForce LED HPI ND 110-88W E40 840 60D
EAN/UPC – product	8718696713785
Order code	929001356802
Numerator – quantity per pack	1
Numerator – packs per outer box	2
SAP material	929001356802
SAP net weight (piece)	1.300 kg

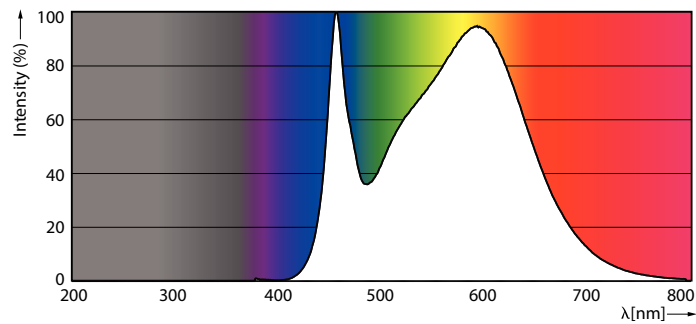
## Dimensional drawing



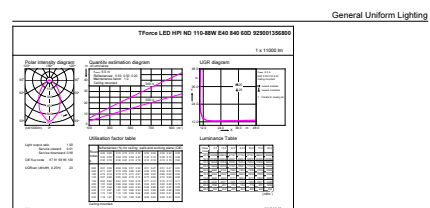
TForce LED HIL ND 90-250W E40 840 60D

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

## Photometric data



NAM Highbay 165W EX39 4000K 60-120D NB WB UDL

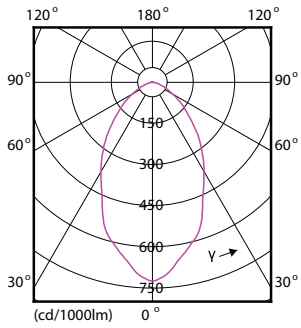


General Uniform Lighting  
 Catalog Photometric 4.5 Philips Lighting B.V. Page 111

TrueForce LEDHIL HPI 250W E40 840 60D

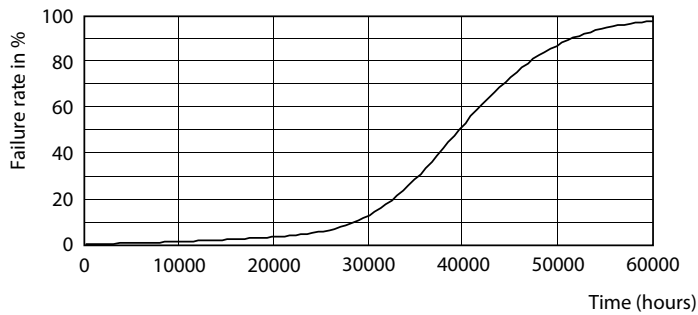
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## Photometric data

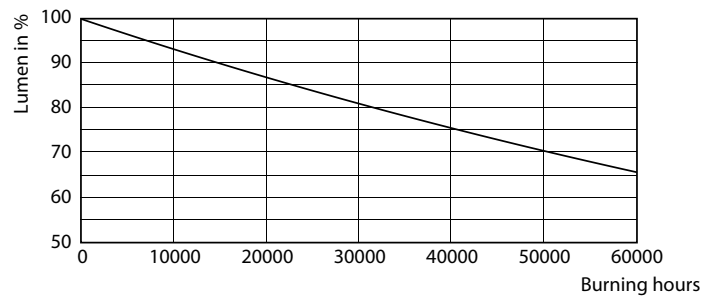


TrueForce LEDHIL HPI 250W E40 840 60D

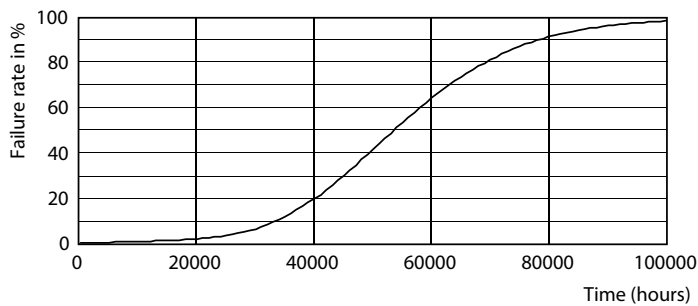
## Lifetime



TrueForce LEDHIL HPI 250W E40 840 120D



TrueForce LEDHIL HPI 250W E40 840 120D



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