



TrueForce LED Public (Urban/Road – HPL/SON)

TForce LED HPL ND 60-42W E40 840

MASTER, LED HPL, Corn cob, EM/Mains, 42 W, HPL 125W, SON 70W, E40, 4000 K, 6000 lm, CRI 80, 50000 h

Philips TrueForce LED lamps provide an easy LED solution with a fast payback to replace High-Intensity Discharge (HID) and High-Pressure Sodium (SON) lamps. These post-top lamps bring the energy efficiency and long lifetime benefits of LED-to-HID replacement, delivering instant savings for a low initial investment. With the right lamp size and light distribution, customers can easily retrofit TrueForce LED lamps into their existing HPL and SON system, thereby enhancing the light quality with LED HID, without having to change the fixtures or sacrifice the light effect.

Warnings and Safety

- Installation should always be performed by a qualified electrician or installer. Use the installation guide for instructions
- <https://www.assets.signify.com/is/content/Signify/phl-led-hid-eu-compatibility-list-professional>

Product data

General Information		Warranty period	
Cap base	E40	8 years	
Nominal lifetime	50,000 h	Light Technical	
Switching Cycle	50,000	Colour Code	840 [CCT of 4000K]
Lighting Technology	LED HPL	Beam angle (nom.)	360 degree(s)
Flux measurement reference	Sphere	Luminous Flux	6,000 lm
		Colour designation	Cool White (CW)

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Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	142 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80
LLMF at end of nominal lifetime (nom.)	70 %
Photobiological safety according to EN 62471	RG1

Operating and Electrical

Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	42 W
Lamp current (nom.)	186 mA
Starting time (nom.)	0.45 s
Warm-up time to 60% light	0.45 s
Power Factor (Fraction)	0.95
Voltage (nom.)	220-240 V
Inrush current at mains	6.3
Max. lamp no. on MCB B type 10A – Mains	30
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	30
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	7
Max. lamp no. on MCB B type 16A – Mains	48
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	48
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	11
Wattage Equivalent (LED HID only)	HPL 125W, SON 70W
Ballast Compatibility	EM/Mains

Temperature

T-Case maximum (nom.)	65 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Clear
Bulb material	Plastic
Bulb shape	Corn cob
Net Weight (Piece)	0.500 kg

Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Energy consumption kWh/1,000 hours	42 kWh
EPREL Registration Number	403606
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	1.6
Ambient temperature range	-30 to +45 °C

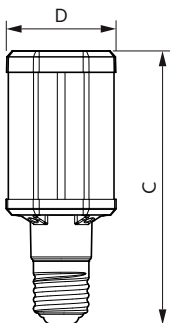
Application Conditions

Wireless Technology	Not applicable
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Product Data

Order product name	TForce LED HPL ND 60-42W E40 840
Full product name	TForce LED HPL ND 60-42W E40 840
Full EOC	871869963828300
Order code	929002006802
Material no. (12 NC)	929002006802
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8718699638283
Numerator – packs per outer box	6
EAN/UPC – Case	8718699638290

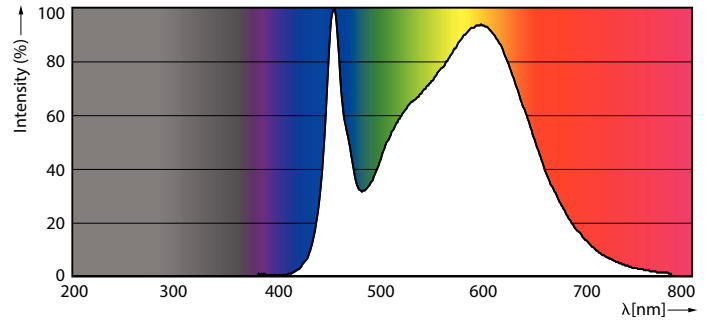
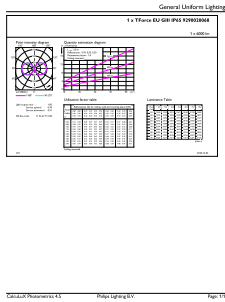
Dimensional drawing



Product	D	C
TForce LED HPL ND 60-42W E40 840	84 mm	191 mm

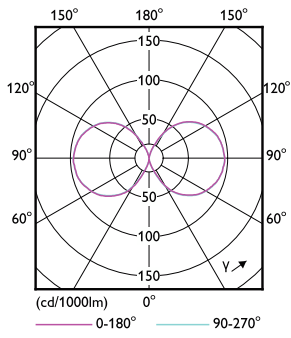
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Photometric data



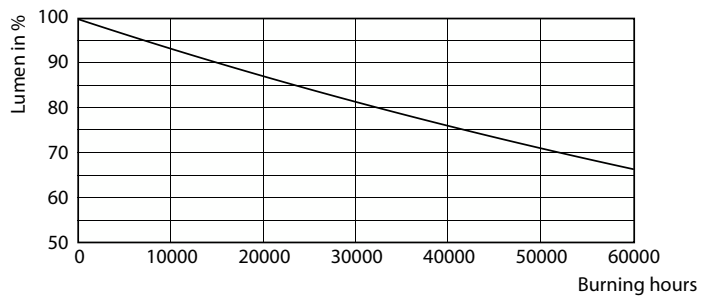
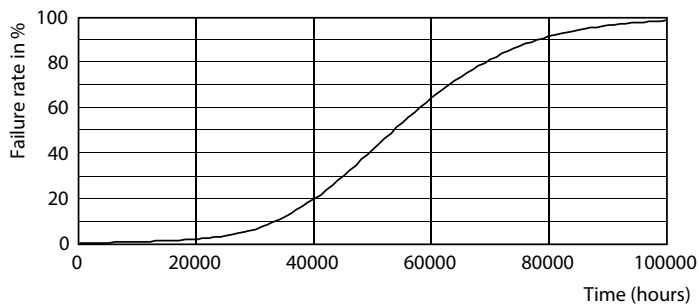
General uniform lighting - TForce LED HPL ND 60-42W E40 840

Spectral Power Distribution Colour - TForce LED HPL ND 60-42W E40 840



Light Distribution Diagram - TForce LED HPL ND 60-42W E40 840

Lifetime



LEDTrueForce Others 360

Lumen Maintenance Diagram - TForce LED HPL ND 60-42W E40 840

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