



# The best LED replacement for HID HPL and SON post-top lamps with TrueForce LED

## TrueForce - LED HID HPL

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.

### Benefits

- Cost savings for a quick payback
- Easy way to enhance light quality
- High energy efficiency

### Features

- High Energy efficient lamps
- Long lifetime - 50,000 hrs
- Surge protection 4KV
- Pleasant white light with CRI 80
- Omnidirectional light around lamp
- IP65 product (IP rated sockets required for outdoor application)

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## Application

- Road and street
- Parking garages
- Parks and plazas

## Warnings and Safety

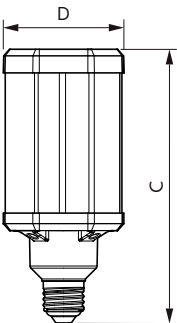
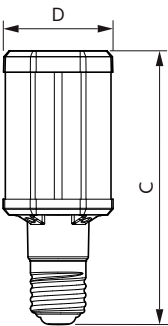
- Installation should always be performed by a qualified electrician or installer. Use the installation guide for instructions
- <https://www.assets.signify.com/is/content/Signify/phl-led-hid-eu-compatibility-list-professional>

## Versions



LEDTrueForce Others E40

## Dimensional drawing

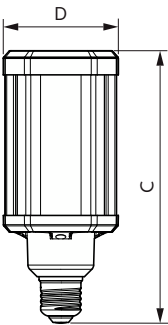


Product	D	C
TForce LED HPL ND 57-42W E40 830	84 mm	191 mm
TForce LED HPL ND 60-42W E40 840	84 mm	191 mm

Product	D	C
TForce LED HPL ND 57-42W E27 830	84 mm	178 mm
TForce LED HPL ND 60-42W E27 840	84 mm	178 mm

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Dimensional drawing



Product	D	C
TForce LED HPL ND 28-21W E27 830	75 mm	178 mm
TForce LED HPL ND 30-21W E27 840	75 mm	178 mm
TForce LED HPL ND 38-28W E27 830	75 mm	178 mm
TForce LED HPL ND 40-28W E27 840	75 mm	178 mm

General Information	
Switching Cycle	50,000
Nominal lifetime	50,000 hour(s)
Light Technical	
Beam Angle (Nom)	360 degree(s)
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting Time (Nom)	0.45 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	Others
Approval and Application	
Ambient temperature range	-30 to +45 °C

General Information

Order Code	Full Product Name	Cap-Base
929002006702	TForce LED HPL ND 57-42W E40 830	E40
929002006802	TForce LED HPL ND 60-42W E40 840	E40
929002006502	TForce LED HPL ND 57-42W E27 830	E27
929002006602	TForce LED HPL ND 60-42W E27 840	E27
929002006102	TForce LED HPL ND 28-21W E27 830	E27
929002006202	TForce LED HPL ND 30-21W E27 840	E27
929002006302	TForce LED HPL ND 38-28W E27 830	E27
929002006402	TForce LED HPL ND 40-28W E27 840	E27

Light Technical

		Correlated Color		
Order Code	Full Product Name	Temperature (Nom)	Color Code	Luminous Flux
929002006702	TForce LED HPL ND 57-42W E40 830	3000 K	830	5,700 lm
929002006802	TForce LED HPL ND 60-42W E40 840	4000 K	840	6,000 lm
929002006502	TForce LED HPL ND 57-42W E27 830	3000 K	830	5,700 lm
929002006602	TForce LED HPL ND 60-42W E27 840	4000 K	840	6,000 lm

		Correlated Color		
Order Code	Full Product Name	Temperature (Nom)	Color Code	Luminous Flux
929002006102	TForce LED HPL ND 28-21W E27 830	3000 K	830	2,850 lm
929002006202	TForce LED HPL ND 30-21W E27 840	4000 K	840	3,000 lm
929002006302	TForce LED HPL ND 38-28W E27 830	3000 K	830	3,800 lm
929002006402	TForce LED HPL ND 40-28W E27 840	4000 K	840	4,000 lm

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Operating and Electrical

Order Code	Full Product Name	Power Consumption
929002006702	TForce LED HPL ND 57-42W E40 830	42 W
929002006802	TForce LED HPL ND 60-42W E40 840	42 W
929002006502	TForce LED HPL ND 57-42W E27 830	42 W
929002006602	TForce LED HPL ND 60-42W E27 840	42 W

Order Code	Full Product Name	Power Consumption
929002006102	TForce LED HPL ND 28-21W E27 830	21 W
929002006202	TForce LED HPL ND 30-21W E27 840	21 W
929002006302	TForce LED HPL ND 38-28W E27 830	28 W
929002006402	TForce LED HPL ND 40-28W E27 840	28 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929002006702	TForce LED HPL ND 57-42W E40 830	65 °C
929002006802	TForce LED HPL ND 60-42W E40 840	65 °C
929002006502	TForce LED HPL ND 57-42W E27 830	65 °C
929002006602	TForce LED HPL ND 60-42W E27 840	65 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929002006102	TForce LED HPL ND 28-21W E27 830	55 °C
929002006202	TForce LED HPL ND 30-21W E27 840	55 °C
929002006302	TForce LED HPL ND 38-28W E27 830	60 °C
929002006402	TForce LED HPL ND 40-28W E27 840	60 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
929002006702	TForce LED HPL ND 57-42W E40 830	42 kWh
929002006802	TForce LED HPL ND 60-42W E40 840	42 kWh
929002006502	TForce LED HPL ND 57-42W E27 830	42 kWh
929002006602	TForce LED HPL ND 60-42W E27 840	42 kWh
929002006102	TForce LED HPL ND 28-21W E27 830	21 kWh
929002006202	TForce LED HPL ND 30-21W E27 840	21 kWh
929002006302	TForce LED HPL ND 38-28W E27 830	28 kWh
929002006402	TForce LED HPL ND 40-28W E27 840	28 kWh

