



# The best LED solution for High-Intensity Discharge (HID) lamp replacement

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

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

### Benefits

- Cost savings ensure a quick payback
- Low initial investment
- Enhanced light quality and easy adoption

### Features

- High energy-efficiency
- Long lifetime 50,000 hrs
- The right lamp size and lighting distribution for direct retrofitting
- Lightweight
- Up to 6 KV surge protection

### Application

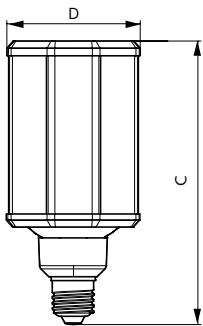
- Public urban – parks, squares
- Public road – streets, paths
- Public area – parking, transportation hubs

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## Versions



## Dimensional drawing



Product	D	C
TrueForce LED HPL ND 44-33W E27 740 FR	84 mm	178 mm
TrueForce LED HPL ND 48-33W E27 740 CL	84 mm	178 mm
TrueForce LED HPL ND 32-25W E27 740 CL	84 mm	178 mm
TrueForce LED HPL ND 29-25W E27 740 FR	84 mm	178 mm
TrueForce LED HPL ND 29-25W E27 740 FR	84 mm	178 mm
TrueForce LED HPL ND 48-33W E27 740 CL	84 mm	178 mm
TrueForce LED HPL ND 28-25W E27 730 FR	84 mm	178 mm
TrueForce LED HPL ND 31-25W E27 730 CL	84 mm	178 mm
TrueForce LED HPL ND 42-33W E27 730 FR	84 mm	178 mm
TrueForce LED HPL ND 46-33W E27 730 CL	84 mm	178 mm
TrueForce LED HPL ND 32-25W E27 740 CL	84 mm	178 mm
TrueForce LED HPL ND 44-33W E27 740 FR	84 mm	178 mm

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## Controls and Dimming

Dimmable	No
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## Operating and Electrical

Input Frequency	50 to 60 Hz
Voltage (Nom)	220-240 V
Starting Time (Nom)	0.5 s

## General Information

Cap-Base	E27
Nominal Lifetime (Nom)	50000 h
Rated Lifetime (Hours)	50000 h
Switching Cycle	50000X

## Light Technical

Beam Angle (Nom)	360 °
Colour Rendering Index (Nom)	70
Llmf At End Of Nominal Lifetime (Nom)	70 %

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
68696600	TrueForce LED HPL ND 48-33W E27 740 CL	33 kWh	A++
68698000	TrueForce LED HPL ND 44-33W E27 740 FR	33 kWh	A++
68700000	TrueForce LED HPL ND 32-25W E27 740 CL	25 kWh	A++
68702400	TrueForce LED HPL ND 29-25W E27 740 FR	25 kWh	A+
81099600	TrueForce LED HPL ND 46-33W E27 730 CL	33 kWh	A++
81103000	TrueForce LED HPL ND 48-33W E27 740 CL	33 kWh	A++
81101600	TrueForce LED HPL ND 42-33W E27 730 FR	33 kWh	A++
81105400	TrueForce LED HPL ND 44-33W E27 740 FR	33 kWh	A++
81109200	TrueForce LED HPL ND 28-25W E27 730 FR	25 kWh	A+
81113900	TrueForce LED HPL ND 29-25W E27 740 FR	25 kWh	A+
81107800	TrueForce LED HPL ND 31-25W E27 730 CL	25 kWh	A++
81111500	TrueForce LED HPL ND 32-25W E27 740 CL	25 kWh	A++

## Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
68696600	TrueForce LED HPL ND 48-33W E27 740 CL	125 W	33 W
68698000	TrueForce LED HPL ND 44-33W E27 740 FR	125 W	33 W
68700000	TrueForce LED HPL ND 32-25W E27 740 CL	80 W	25 W
68702400	TrueForce LED HPL ND 29-25W E27 740 FR	80 W	25 W
81099600	TrueForce LED HPL ND 46-33W E27 730 CL	125 W	33 W
81103000	TrueForce LED HPL ND 48-33W E27 740 CL	125 W	33 W

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
81101600	TrueForce LED HPL ND 42-33W E27 730 FR	125 W	33 W
81105400	TrueForce LED HPL ND 44-33W E27 740 FR	125 W	33 W
81109200	TrueForce LED HPL ND 28-25W E27 730 FR	80 W	25 W
81113900	TrueForce LED HPL ND 29-25W E27 740 FR	80 W	25 W
81107800	TrueForce LED HPL ND 31-25W E27 730 CL	80 W	25 W
81111500	TrueForce LED HPL ND 32-25W E27 740 CL	80 W	25 W

## Light Technical

Order Code	Full Product Name	Colour Code	Correlated		Luminous Flux (Rated) (Nom)
			Colour Temperature (Nom)	Luminous Flux (Nom)	
68696600	TrueForce LED HPL ND 48-33W E27 740 CL	740	4000 K	4800 lm	4800 lm
68698000	TrueForce LED HPL ND 44-33W E27 740 FR	740	4000 K	4400 lm	4400 lm
68700000	TrueForce LED HPL ND 32-25W E27 740 CL	740	4000 K	3200 lm	3200 lm

Order Code	Full Product Name	Colour Code	Correlated		Luminous Flux (Rated) (Nom)
			Colour Temperature (Nom)	Luminous Flux (Nom)	
68702400	TrueForce LED HPL ND 29-25W E27 740 FR	740	4000 K	2900 lm	2900 lm
81099600	TrueForce LED HPL ND 46-33W E27 730 CL	730	3000 K	4600 lm	4600 lm
81103000	TrueForce LED HPL ND 48-33W E27 740 CL	740	4000 K	4800 lm	4800 lm

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

Order Code	Full Product Name	Colour Code	Correlated Colour		Luminous Flux (Rated) (Nom)
			Temperature (Nom)	Luminous Flux (Nom)	
81101600	TrueForce LED HPL ND 42-33W E27 730 FR	730	3000 K	4200 lm	4200 lm
81105400	TrueForce LED HPL ND 44-33W E27 740 FR	740	4000 K	4400 lm	4400 lm
81109200	TrueForce LED HPL ND 28-25W E27 730 FR	730	3000 K	2800 lm	2800 lm

Order Code	Full Product Name	Colour Code	Correlated Colour		Luminous Flux (Rated) (Nom)
			Temperature (Nom)	Luminous Flux (Nom)	
81113900	TrueForce LED HPL ND 29-25W E27 740 FR	740	4000 K	2900 lm	2900 lm
81107800	TrueForce LED HPL ND 31-25W E27 730 CL	730	3000 K	3100 lm	3100 lm
81111500	TrueForce LED HPL ND 32-25W E27 740 CL	740	4000 K	3200 lm	3200 lm

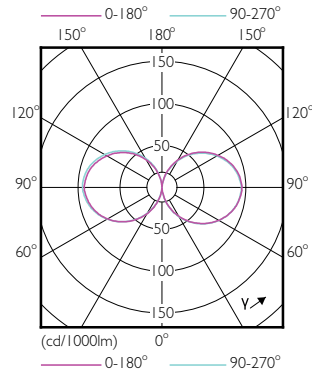
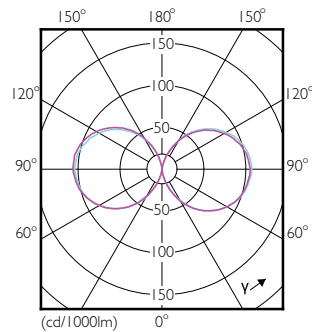
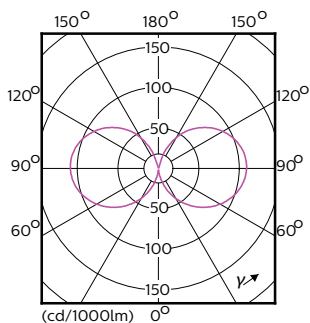
## Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
68696600	TrueForce LED HPL ND 48-33W E27 740 CL	Clear (CL)
68698000	TrueForce LED HPL ND 44-33W E27 740 FR	Frosted (FR)
68700000	TrueForce LED HPL ND 32-25W E27 740 CL	Clear (CL)
68702400	TrueForce LED HPL ND 29-25W E27 740 FR	Frosted (FR)
81099600	TrueForce LED HPL ND 46-33W E27 730 CL	Clear (CL)
81103000	TrueForce LED HPL ND 48-33W E27 740 CL	Clear (CL)

Order Code	Full Product Name	Bulb Finish
81101600	TrueForce LED HPL ND 42-33W E27 730 FR	Frosted (FR)
81105400	TrueForce LED HPL ND 44-33W E27 740 FR	Frosted (FR)
81109200	TrueForce LED HPL ND 28-25W E27 730 FR	Frosted
81113900	TrueForce LED HPL ND 29-25W E27 740 FR	Frosted (FR)
81107800	TrueForce LED HPL ND 31-25W E27 730 CL	Clear (CL)
81111500	TrueForce LED HPL ND 32-25W E27 740 CL	Clear (CL)

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
68696600	TrueForce LED HPL ND 48-33W E27 740 CL	80 °C
68698000	TrueForce LED HPL ND 44-33W E27 740 FR	80 °C
68700000	TrueForce LED HPL ND 32-25W E27 740 CL	80 °C
68702400	TrueForce LED HPL ND 29-25W E27 740 FR	80 °C
81099600	TrueForce LED HPL ND 46-33W E27 730 CL	80 °C
81103000	TrueForce LED HPL ND 48-33W E27 740 CL	80 °C
81101600	TrueForce LED HPL ND 42-33W E27 730 FR	80 °C
81105400	TrueForce LED HPL ND 44-33W E27 740 FR	80 °C
81109200	TrueForce LED HPL ND 28-25W E27 730 FR	70 °C
81113900	TrueForce LED HPL ND 29-25W E27 740 FR	70 °C
81107800	TrueForce LED HPL ND 31-25W E27 730 CL	70 °C
81111500	TrueForce LED HPL ND 32-25W E27 740 CL	70 °C



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