



# 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 50,000hrs
- Right lamp size and lighting distribution for direct retrofit
- Light in weight
- Up to 6KV surge protection

### Application

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

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

## Versions



E27 Others Clear



E27 Others Frosted



E27 Others Clear



E27 Others Frosted



Trueforce E27 others Clear



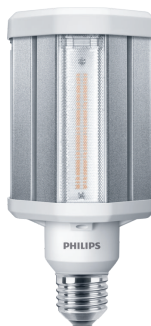
Trueforce E27 others Frosted



Trueforce E27 others Clear



E27 Others Clear



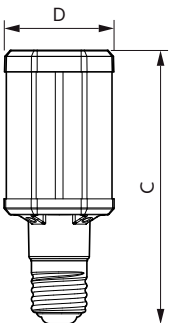
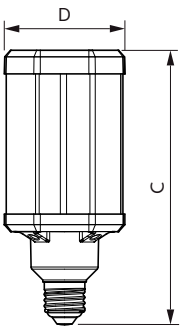
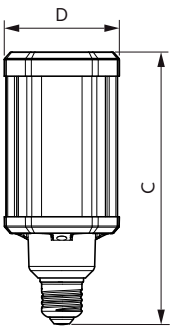
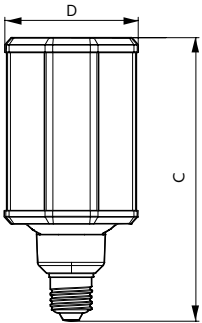
E27 Others Clear



E40 Others Clear

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

## Dimensional drawing



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

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

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

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

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

Controls and Dimming	
Dimmable	No
Operating and Electrical	
Input Frequency	50 to 60 Hz
Voltage (Nom)	220-240 V
General Information	
Nominal Lifetime (Nom)	50000 h
Rated Lifetime (Hours)	50000 h
Switching Cycle	50000X
Light Technical	
Beam Angle (Nom)	360 °
Llmf At End Of Nominal Lifetime (Nom)	70 %
Mechanical and Housing	
Bulb Shape	Others

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	33 kWh	A++
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	33 kWh	A++
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	25 kWh	A++
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	25 kWh	A+
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	33 kWh	A++
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	33 kWh	A++
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	33 kWh	A++
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	33 kWh	A++
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	25 kWh	A+
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	25 kWh	A+
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	25 kWh	A++
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	25 kWh	A++
929002006102	TrueForce LED HPL ND 28-21W E27 830	21 kWh	A++
929002006202	TrueForce LED HPL ND 30-21W E27 840	21 kWh	A++
929002006302	TrueForce LED HPL ND 38-28W E27 830	28 kWh	A++
929002006402	TrueForce LED HPL ND 40-28W E27 840	28 kWh	A++
929002006502	TrueForce LED HPL ND 57-42W E27 830	42 kWh	A++
929002006602	TrueForce LED HPL ND 60-42W E27 840	42 kWh	A++
929002006702	TrueForce LED HPL ND 57-42W E40 830	42 kWh	A++
929002006802	TrueForce LED HPL ND 60-42W E40 840	42 kWh	A++

## Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)	Starting Time (Nom)
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	125 W	33 W	0.5 s
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	125 W	33 W	0.5 s
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	80 W	25 W	0.5 s
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	80 W	25 W	0.5 s
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	125 W	33 W	0.5 s
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	125 W	33 W	0.5 s
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	125 W	33 W	0.5 s
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	125 W	33 W	0.5 s
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	80 W	25 W	0.5 s
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	80 W	25 W	0.5 s
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	80 W	25 W	0.5 s
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	80 W	25 W	0.5 s
929002006102	TrueForce LED HPL ND 28-21W E27 830	80 W	21 W	0.45 s
929002006202	TrueForce LED HPL ND 30-21W E27 840	80 W	21 W	0.45 s
929002006302	TrueForce LED HPL ND 38-28W E27 830	125 W	28 W	0.45 s
929002006402	TrueForce LED HPL ND 40-28W E27 840	125 W	28 W	0.45 s
929002006502	TrueForce LED HPL ND 57-42W E27 830	125 W	42 W	0.45 s
929002006602	TrueForce LED HPL ND 60-42W E27 840	125 W	42 W	0.45 s
929002006702	TrueForce LED HPL ND 57-42W E40 830	200 W	42 W	0.45 s
929002006802	TrueForce LED HPL ND 60-42W E40 840	200 W	42 W	0.45 s

## General Information

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

Order Code	Full Product Name	Cap-Base
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	E27
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	E27
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	E27
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	E27
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	E27
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	E27
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	E27
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	E27
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	E27
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	E27

Order Code	Full Product Name	Cap-Base
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	E27
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	E27
929002006102	TrueForce LED HPL ND 28-21W E27 830	E27
929002006202	TrueForce LED HPL ND 30-21W E27 840	E27
929002006302	TrueForce LED HPL ND 38-28W E27 830	E27
929002006402	TrueForce LED HPL ND 40-28W E27 840	E27
929002006502	TrueForce LED HPL ND 57-42W E27 830	E27
929002006602	TrueForce LED HPL ND 60-42W E27 840	E27
929002006702	TrueForce LED HPL ND 57-42W E40 830	E40
929002006802	TrueForce LED HPL ND 60-42W E40 840	E40

### Light Technical (1/2)

Order Code	Full Product Name	Color Code	Correlated Color	Color Rendering	Luminous Flux (Nom)
			Temperature (Nom)	Index (Nom)	
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	740	4000 K	70	4800 lm
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	740	4000 K	70	4400 lm
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	740	4000 K	70	3200 lm
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	740	4000 K	70	2900 lm
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	730	3000 K	70	4600 lm
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	740	4000 K	70	4800 lm
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	730	3000 K	70	4200 lm
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	740	4000 K	70	4400 lm
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	730	3000 K	70	2800 lm
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	740	4000 K	70	2900 lm

Order Code	Full Product Name	Color Code	Correlated Color	Color Rendering	Luminous Flux (Nom)
			Temperature (Nom)	Index (Nom)	
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	730	3000 K	70	3100 lm
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	740	4000 K	70	3200 lm
929002006102	TrueForce LED HPL ND 28-21W E27 830	830	3000 K	80	2850 lm
929002006202	TrueForce LED HPL ND 30-21W E27 840	840	4000 K	80	3000 lm
929002006302	TrueForce LED HPL ND 38-28W E27 830	830	3000 K	80	3800 lm
929002006402	TrueForce LED HPL ND 40-28W E27 840	840	4000 K	80	4000 lm
929002006502	TrueForce LED HPL ND 57-42W E27 830	830	3000 K	80	5700 lm
929002006602	TrueForce LED HPL ND 60-42W E27 840	840	4000 K	80	6000 lm
929002006702	TrueForce LED HPL ND 57-42W E40 830	830	3000 K	80	5700 lm
929002006802	TrueForce LED HPL ND 60-42W E40 840	840	4000 K	80	6000 lm

### Light Technical (2/2)

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

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	4800 lm
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	4400 lm
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	3200 lm
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	2900 lm
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	4600 lm
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	4800 lm
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	4200 lm
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	4400 lm
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	2800 lm
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	2900 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	3100 lm
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	3200 lm
929002006102	TrueForce LED HPL ND 28-21W E27 830	2850 lm
929002006202	TrueForce LED HPL ND 30-21W E27 840	3000 lm
929002006302	TrueForce LED HPL ND 38-28W E27 830	3800 lm
929002006402	TrueForce LED HPL ND 40-28W E27 840	4000 lm
929002006502	TrueForce LED HPL ND 57-42W E27 830	5700 lm
929002006602	TrueForce LED HPL ND 60-42W E27 840	6000 lm
929002006702	TrueForce LED HPL ND 57-42W E40 830	5700 lm
929002006802	TrueForce LED HPL ND 60-42W E40 840	6000 lm

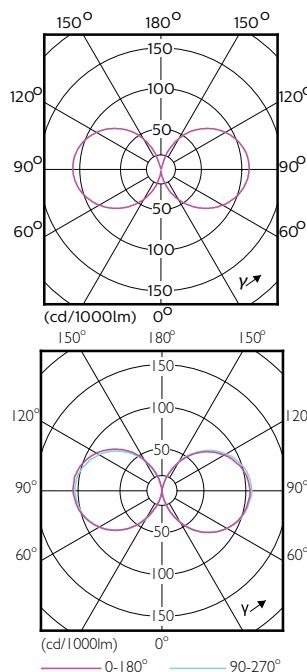
## Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	Clear
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	Frosted
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	Clear
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	Frosted
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	Clear
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	Clear
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	Frosted
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	Frosted
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	Frosted
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	Frosted

Order Code	Full Product Name	Bulb Finish
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	Clear
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	Clear
929002006102	TrueForce LED HPL ND 28-21W E27 830	Clear
929002006202	TrueForce LED HPL ND 30-21W E27 840	Clear
929002006302	TrueForce LED HPL ND 38-28W E27 830	Clear
929002006402	TrueForce LED HPL ND 40-28W E27 840	Clear
929002006502	TrueForce LED HPL ND 57-42W E27 830	Clear
929002006602	TrueForce LED HPL ND 60-42W E27 840	Clear
929002006702	TrueForce LED HPL ND 57-42W E40 830	Clear
929002006802	TrueForce LED HPL ND 60-42W E40 840	Clear

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001296402	TrueForce LED HPL ND 48-33W E27 740 CL	80 °C
929001296502	TrueForce LED HPL ND 44-33W E27 740 FR	80 °C
929001296602	TrueForce LED HPL ND 32-25W E27 740 CL	80 °C
929001296702	TrueForce LED HPL ND 29-25W E27 740 FR	80 °C
929001897602	TrueForce LED HPL ND 46-33W E27 730 CL	80 °C
929001897802	TrueForce LED HPL ND 48-33W E27 740 CL	80 °C
929001897702	TrueForce LED HPL ND 42-33W E27 730 FR	80 °C
929001897902	TrueForce LED HPL ND 44-33W E27 740 FR	80 °C
929001898102	TrueForce LED HPL ND 28-25W E27 730 FR	70 °C
929001898302	TrueForce LED HPL ND 29-25W E27 740 FR	70 °C
929001898002	TrueForce LED HPL ND 31-25W E27 730 CL	70 °C
929001898202	TrueForce LED HPL ND 32-25W E27 740 CL	70 °C
929002006102	TrueForce LED HPL ND 28-21W E27 830	80 °C
929002006202	TrueForce LED HPL ND 30-21W E27 840	80 °C
929002006302	TrueForce LED HPL ND 38-28W E27 830	85 °C
929002006402	TrueForce LED HPL ND 40-28W E27 840	85 °C
929002006502	TrueForce LED HPL ND 57-42W E27 830	90 °C
929002006602	TrueForce LED HPL ND 60-42W E27 840	90 °C
929002006702	TrueForce LED HPL ND 57-42W E40 830	90 °C
929002006802	TrueForce LED HPL ND 60-42W E40 840	90 °C



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

