



TrueForce - LED HID HPL

TForce LED HPL ND 28-21W E27 830

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

Product data

General Information	
Cap-Base	E27 [E27]
Nominal lifetime	50,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere
Light Technical	
Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	360 degree(s)
Luminous Flux	2,850 lumen
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	135 lm/W
Color Consistency	<6

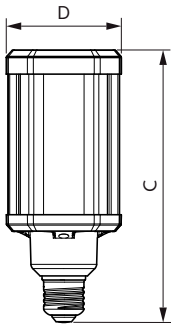
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	21 W
Lamp Current (Nom)	95 mA
Wattage Equivalent	50 W
Starting Time (Nom)	0.45 s
Warm-up time to 60% light	0.45 s
Power Factor (Fraction)	0.95
Voltage (Nom)	220-240 V

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Temperature	
Ambient temperature range	-40 °C to 55 °C
T-Case Maximum (Nom)	55 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	Others
Approval and Application	
Energy Consumption kWh/1000 h	21 kWh
EPREL Registration Number	403,568

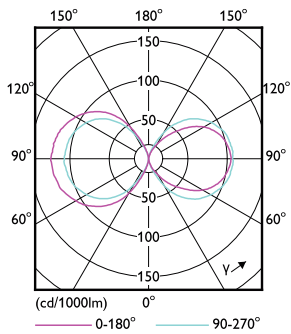
CE mark	Yes
EU RoHS compliant	Yes
Product Data	
Full product code	871869963814600
Order product name	TForce LED HPL ND 28-21W E27 830
Order code	929002006102
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	6
Material number (12NC)	929002006102
Full product name	TForce LED HPL ND 28-21W E27 830
EAN/UPC - Case	8718699638153

Dimensional drawing

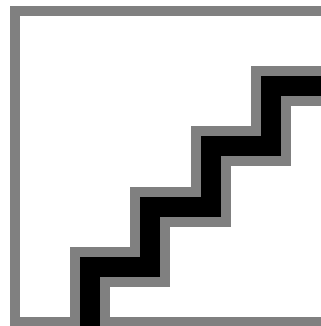


Product	D	C
TForce LED HPL ND 28-21W E27 830	75 mm	178 mm

Photometric data



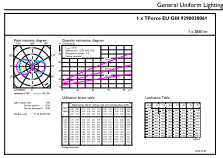
Light Distribution Diagram - TForce LED HPL ND 28-21W E27 830



Spectral Power Distribution Colour - TForce LED HPL ND 28-21W E27 830

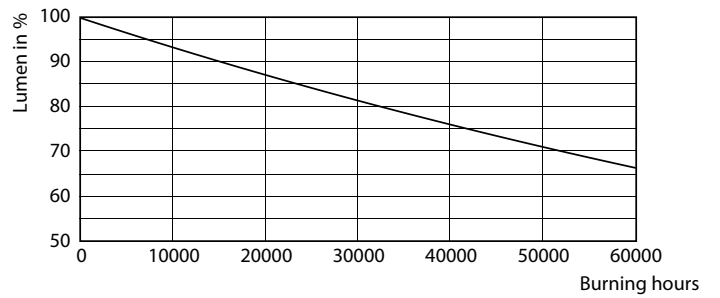
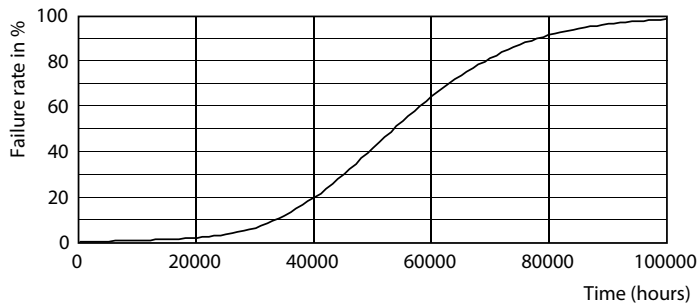
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Lifetime



Life Expectancy Diagram - TForce LED HPL ND 28-21W E27 830

Lumen Maintenance Diagram - TForce LED HPL ND 28-21W E27 830

