



TrueForce - LED HID HPL



TrueForce 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
- Link to Ballast – igniter compatibility list <https://www.assets.signify.com/is/content/Signify/Assets/philips-lighting/global/HIDLED-EU-compatibility-list-professional.pdf>

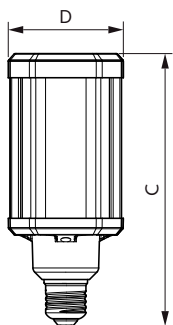
Product data

General Information		Color Designation	
Cap-Base	E27	White (WH)	
Nominal lifetime	50,000 hour(s)	Correlated Color Temperature (Nom)	3000 K
Switching Cycle	50,000	Luminous Efficacy (rated) (Nom)	135 lm/W
Lighting Technology	LED	Color Consistency	<6
Flux measurement reference	Sphere	Color rendering index (CRI)	80
CE mark	Yes	LLMF At End Of Nominal Lifetime (Nom)	70 %
EU RoHS compliant	Yes	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Light Technical		Stroboscopic effect visibility measure (SVM)	1.6
Color Code	830 [CCT of 3000K]	Photobiological safety according to EN 62471	RG1
Beam Angle (Nom)	360 degree(s)	Operating and Electrical	
Luminous Flux	2,850 lm	Line Frequency	50 to 60 Hz

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Input Frequency	50 to 60 Hz
Power Consumption	21 W
Lamp Current (Nom)	95 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	4.03
Max. lamp no. on MCB B type 10A - Mains	58
Max. lamp no. on MCB B type 10A - EM ballast without Comp. Cap.	58
Max. lamp no. on MCB B type 10A - EM ballast with Comp. Cap.	8
Max. lamp no. on MCB B type 16A - Mains	93
Max. lamp no. on MCB B type 16A - EM ballast without Comp. Cap.	93
Max. lamp no. on MCB B type 16A - EM ballast with Comp. Cap.	14
Ballast Compatibility	EM/Mains
Temperature	
Ambient temperature range	-30 to +45 °C
T-Case Maximum (Nom)	55 °C
Controls and Dimming	
Dimmable	No

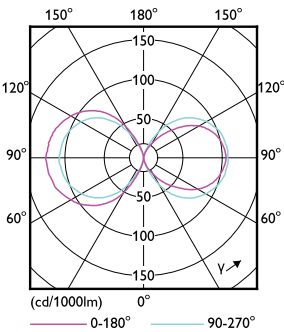
Dimensional drawing



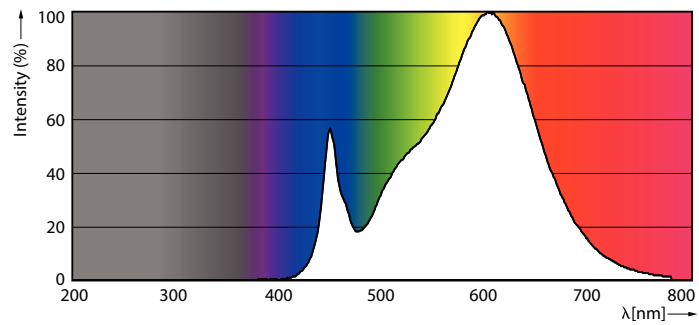
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	Others
Approval and Application	
Energy Efficiency Class	D
Energy Consumption kWh/1000 h	21 kWh
EPREL Registration Number	403568
Product Data	
Order product name	TForce LED HPL ND 28-21W E27 830
Full product name	TrueForce LED HPL ND 28-21W E27 830
Full product code	871869963814600
Order code	63814600
Material Nr. (12NC)	929002006102
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699638146
Numerator - Packs per outer box	6
EAN/UPC - Case	8718699638153

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

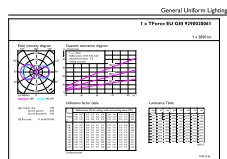
Photometric data



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



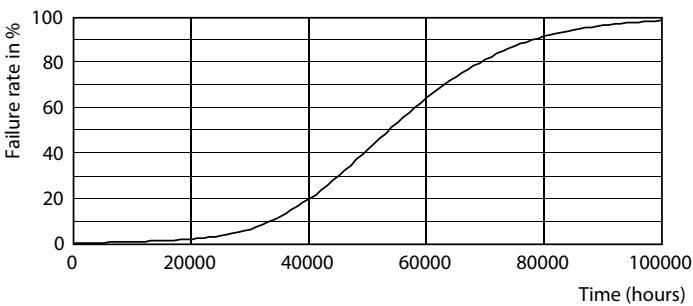
Spectral Power Distribution Colour - TForce LED HPL ND 28-21W E27 830



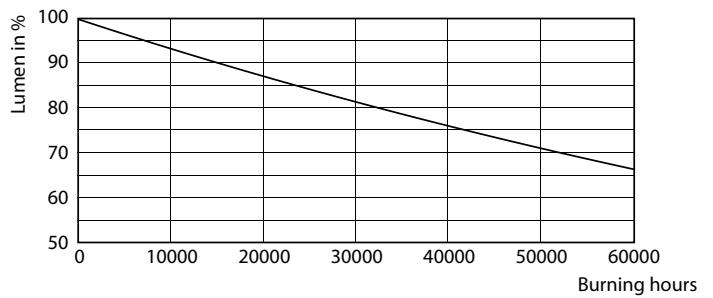
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General uniform lighting - TForce LED HPL ND 28-21W E27 830

Lifetime



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



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

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