



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



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 must 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		Light Technical	
Cap base	E27	Colour Code	830 [CCT of 3000K]
Nominal lifetime	50,000 h	Beam angle (nom.)	360 degree(s)
Switching Cycle	50,000	Luminous Flux	2,850 lm
Lighting Technology	LED	Colour designation	White (WH)
Flux measurement reference	Sphere	Correlated Colour Temperature	3000 K
CE mark	Yes	Luminous efficacy (rated) (nom.)	135 lm/W
EU RoHS compliant	Yes	Colour consistency	<6
		Colour rendering index (CRI)	80
		LLMF at end of nominal lifetime (nom.)	70 %

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Flickering value (PstLM)	1
Stroboscopic effect	1.6
Photobiological safety according to EN 62471	RG1

Operating and Electrical

Line Frequency	50 to 60 Hz
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
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T-Case maximum (nom.)	55 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Clear
Bulb shape	Others

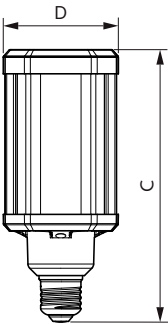
Approval and Application

Energy Efficiency Class	D
Energy consumption kWh/1,000 hours	21 kWh
EPREL registration number	403568

Product Data

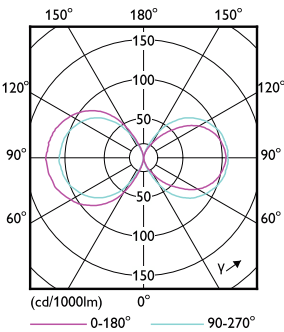
Order product name	TForce LED HPL ND 28-21W E27 830
Full product name	TrueForce LED HPL ND 28-21W E27 830
Full EOC	871869963814600
Order code	63814600
Material no. (12 NC)	929002006102
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718699638146
Numerator – packs per outer box	6
EAN/UPC - Case	8718699638153

Dimensional drawing

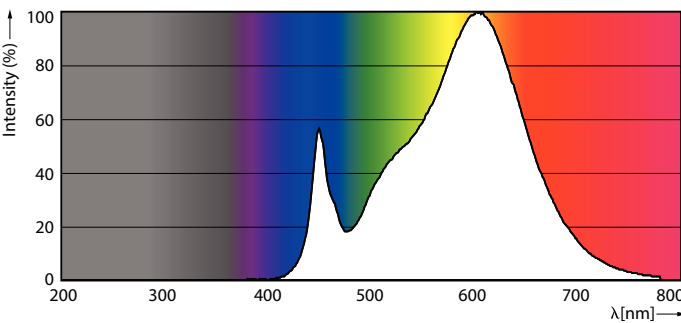


Product	D	C
TForce LED HPL ND 28-21W E27 830	75 mm	178 mm

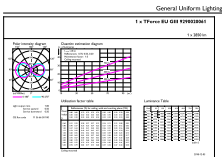
Photometric data



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



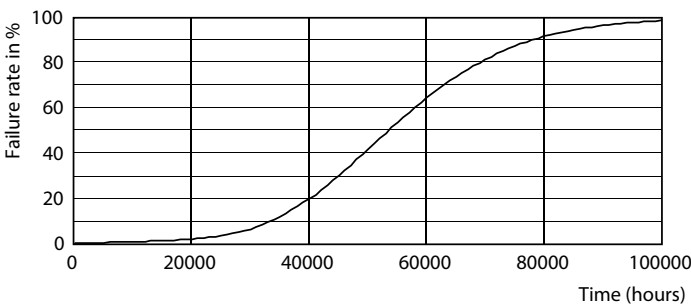
Spectral Power Distribution Colour - TForce LED HPL ND 28-21W E27 830



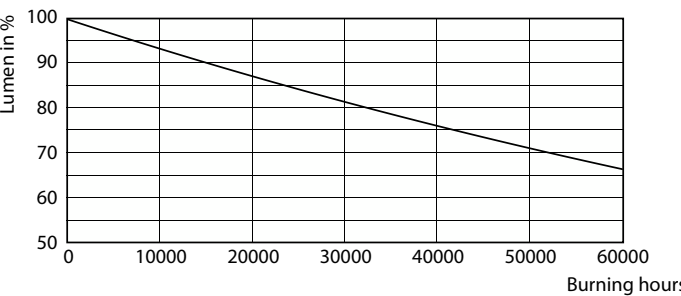
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General uniform lighting - TForce LED HPL ND 28-21W E27 830

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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