



# Trueforce CorePro LED HPL



## TForce Core LED HPL 24.5W E27 830 FR

Philips TrueForce Core LED HPL lamps are an easy, LED solution with a short pay-back to replace High-Intensity Discharge (HID) lamps. This new generation of LED Core post-top lamps brings all the energy-efficiency and long-lifetime benefits of LED-to-HID replacement, while delivering instant saving for a low initial investment. Furthermore, TrueForce CorePro LED HPL lamps are designed to have the same lamp size and light distribution as their HID alternatives. And thanks to our high-power LED filament technology, you'll never know the difference. Plus, their unique IP65 design means that TrueForce Core LED HPL Post-Top lamps can be used for outdoor, as well as indoor applications.

### Warnings and Safety

- Installation must always be performed by a qualified electrician or installer. Use the installation guide for instructions.

### Product data

General Information		Luminous efficacy (rated) (nom.)		163 lm/W	
Cap base	E27	Colour consistency	<6		
Nominal lifetime	25,000 h	Colour rendering index (CRI)	80		
Switching Cycle	50,000	LLMF at end of nominal lifetime (nom.)	70 %		
Lighting Technology	LED	Photobiological safety according to EN 62471	RG0		
Flux measurement reference	Sphere				
Light Technical		Operating and Electrical			
Colour Code	830 [CCT of 3000K]	Input frequency	50 to 60 Hz		
Beam angle (nom.)	300 degree(s)	Power Consumption	24.5 W		
Luminous Flux	4,000 lm	Lamp current (nom.)	175 mA		
Colour designation	White (WH)	Starting time (nom.)	0.5 s		
Correlated Colour Temperature (Nom)	3000 K	Warm-up time to 60% light	0.5 s		
		Power Factor (Fraction)	0.5		

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Voltage (nom.)	220-240 V
Ballast Compatibility	Mains only
Inrush current at mains	10.6
Max. lamp no. on MCB B type 10A – Mains	30
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A – Mains	49
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	-

## Temperature

T-Case maximum (nom.)	44.6 °C
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## Controls and Dimming

Dimmable	No
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## Mechanical and Housing

Lamp Finish	Frosted
Bulb shape	ED90
Net Weight (Piece)	0.140 kg

## Approval and Application

Energy Efficiency Class	C
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Energy consumption kWh/1,000 hours	25 kWh
EPREL Registration Number	1962813
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	1.6
Ambient temperature range	-30 to +45 °C

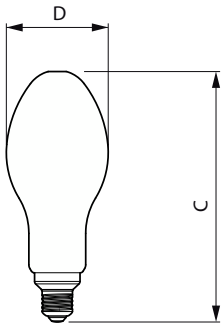
## Application Conditions

Can it be used in closed luminaires	Yes
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## Product Data

Order product name	TForce Core LED HPL 24.5W E27 830 FR	
Full product name	TForce Core LED HPL 24.5W E27 830 FR	
Full EOC	872016933633900	
Order code	33633900	
Material no. (12 NC)	929003836502	
Numerator – quantity per pack	1	
EAN/UPC – Product/Case	8720169336339	
Numerator – packs per outer box	6	
EAN/UPC – Case	8720169336346	

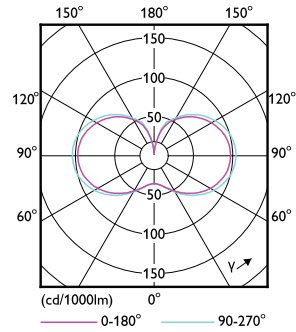
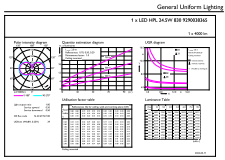
## Dimensional drawing



Product	D	C
TForce Core LED HPL 24.5W E27 830 FR	91.5 mm	218 mm

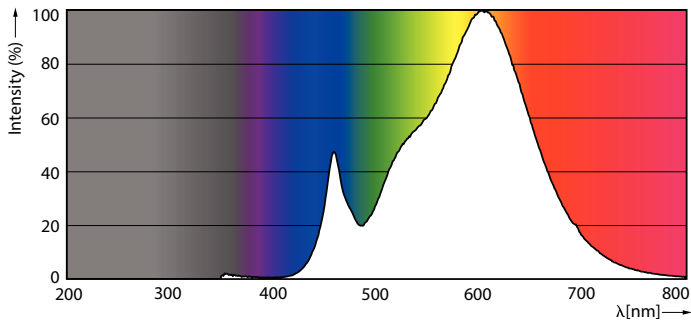
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## Photometric data



General uniform lighting - TForce Core LED HPL 24.5W E27 830 FR

Light Distribution Diagram - TForce Core LED HPL 24.5W E27 830 FR



Spectral Power Distribution Colour - TForce Core LED HPL 24.5W E27 830 FR

## Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce Core LED HPL 24.5W E27 830 FR

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