Trueforce CorePro LED HPL

TForce Core LED HPL 18W E27 830 FR

CorePro, LED HPL, Oval, Mains only, 18 W, HPL 80W, SON 50W, E27, 3000 K, 3000 lm, CRI 80, 25000 h

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	
Cap base	E27
Nominal lifetime	25,000 h
Switching Cycle	50,000
Lighting Technology	LED HPL
Flux measurement reference	Sphere
Warranty period	3 years

Light Technical	
Colour Code	830 [CCT of 3000K]
Beam angle (nom.)	300 degree(s)
Luminous Flux	3,000 lm
Colour designation	White (WH)
Correlated Colour Temperature (Nom)	3000 K
Luminous efficacy (rated) (nom.)	166 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80

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LLMF at end of nominal lifetime (nom.)	70 %
Photobiological safety according to EN 62471	RG1

Operating and Electrical

Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	18 W
Lamp current (nom.)	127 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.5
Voltage (nom.)	220-240 V
Inrush current at mains	5.9
Max. lamp no. on MCB B type 10A — Mains	48
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	77
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.	-
Wattage Equivalent (LED HID only)	HPL 80W, SON 50W
Ballast Compatibility	Mains only

Temperature

T-Case maximum (nom.)	43.2 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Glass
Bulb shape	Oval
Net Weight (Piece)	0.130 kg

Approval and Application

Energy Efficiency Class	C
Energy-saving product	Yes
Energy consumption kWh/1,000 hours	18 kWh
EPREL Registration Number	403620
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	1.6
Ambient temperature range	-30 to +45 °C

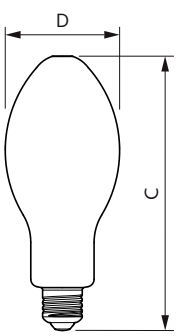
Application Conditions

Can it be used in closed luminaires	Yes

Product Data

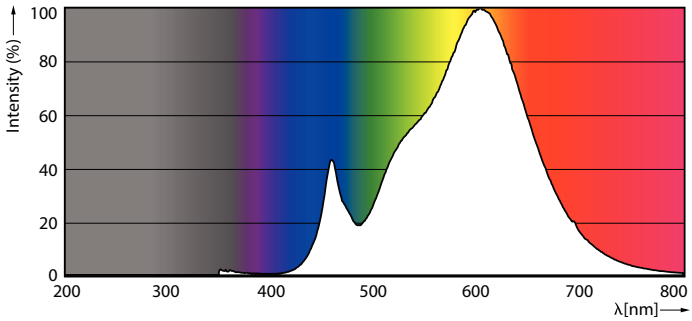
Order product name	TForce Core LED HPL 18W E27 830 FR
Full product name	TForce Core LED HPL 18W E27 830 FR
Full EOC	871869975029900
Order code	929002349902
Material no. (12 NC)	929002349902
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8718699750299
Numerator – packs per outer box	6
EAN/UPC - Case	8718699750305

Dimensional drawing

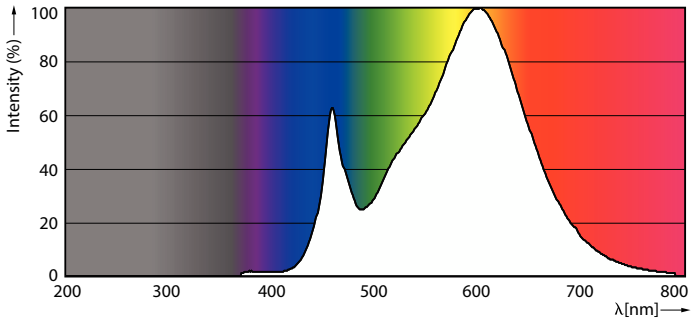


Product	D	C
TForce Core LED HPL 18W E27 830 FR	76 mm	183 mm

Photometric data



Spectral Power Distribution Colour - TForce Core LED HPL 18W E27 830 FR



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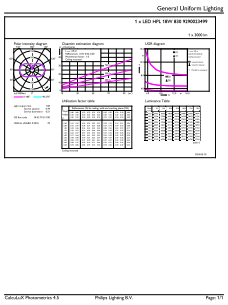
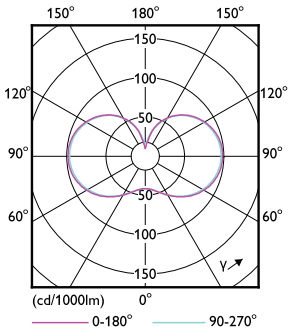
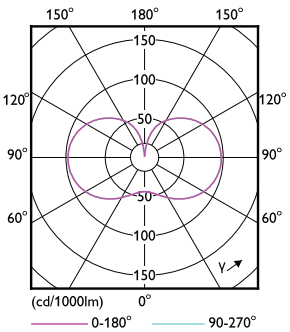


General uniform lighting - TForce Core LED HPL 18W E27 830 FR



Light Distribution Diagram - TForce Core LED HPL 18W E27 830 FR



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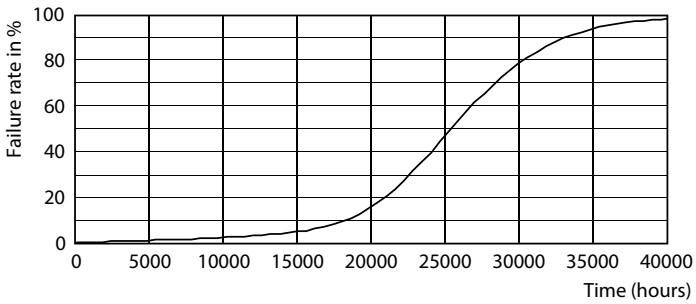
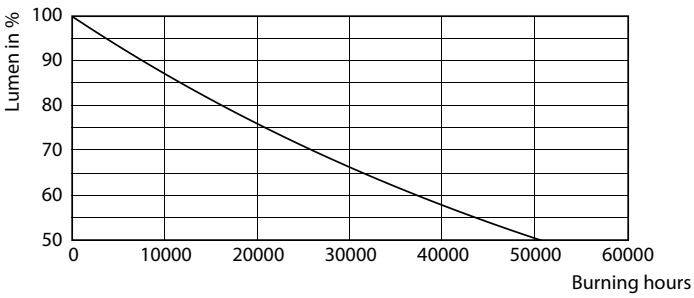
Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - TForce Core LED HPL 18W E27 830 FR