



TrueForce - LED HID HPL

TForce LED HPL ND 38-28W E27 830

MASTER, LED HPL, Corncob, EM/Mains, 28 W, HPL 80W, SON 70W, E27, 3000 K, 3800 lm, CRI 80, 50000 hour(s)

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
- <https://www.assets.signify.com/is/content/Signify/phl-led-hid-eu-compatibility-list-professional>

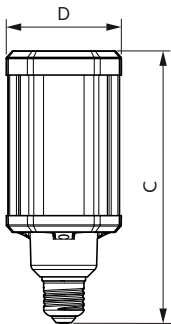
Product data

General Information			
Cap-Base	E27	Beam Angle (Nom)	360 degree(s)
Nominal lifetime	50,000 hour(s)	Luminous Flux	3,800 lm
Switching Cycle	50,000	Color Designation	White (WH)
Lighting Technology	LED HPL	Correlated Color Temperature (Nom)	3000 K
Flux measurement reference	Sphere	Luminous Efficacy (rated) (Nom)	135 lm/W
Warranty period	8 years	Color Consistency	<6
		Color rendering index (CRI)	80
		LLMF At End Of Nominal Lifetime (Nom)	70 %
		Photobiological safety according to EN 62471	RG1
Light Technical			
Color Code	830 [CCT of 3000K]		

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Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	28 W
Lamp Current (Nom)	125 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	4.6
Max. lamp no. on MCB B type 10A - Mains	47
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	47
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	8
Max. lamp no. on MCB B type 16A - Mains	74
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	74
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	14
Wattage Equivalent (LED HID only)	HPL 80W, SON 70W
Ballast Compatibility	EM/Mains
Temperature	
T-Case Maximum (Nom)	60 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear
Bulb Material	Plastic

Dimensional drawing



Bulb Shape	Corncob
Net Weight (Piece)	0.370 kg
Approval and Application	
Energy Efficiency Class	D
Energy Saving Product	Yes
Energy Consumption kWh/1000 h	28 kWh
EPREL Registration Number	403570
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	1.6
Ambient temperature range	-30 to +45 °C

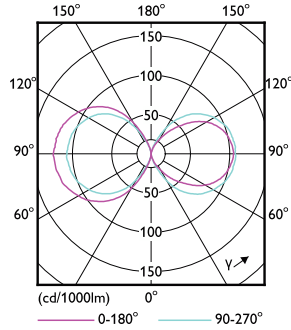
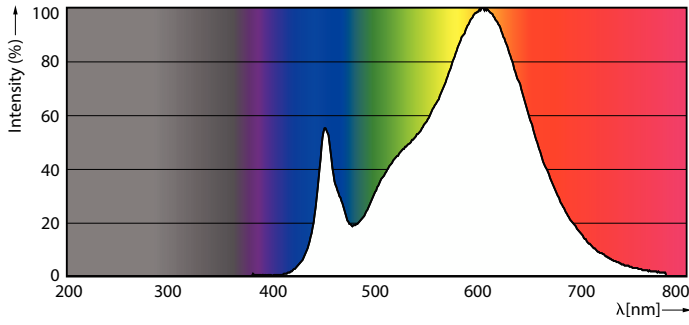
Application Conditions	
Wireless Technology	Not applicable

Product Data	
Order product name	TForce LED HPL ND 38-28W E27 830
Full product name	TForce LED HPL ND 38-28W E27 830
Full product code	871869963818400
Order code	929002006302
Material Nr. (12NC)	929002006302
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699638184
Numerator - Packs per outer box	6
EAN/UPC - Case	8718699638191

Product	D	C
TForce LED HPL ND 38-28W E27 830	75 mm	178 mm

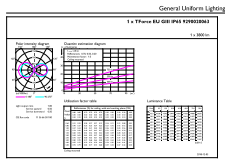
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Photometric data



Spectral Power Distribution Colour - TForce LED HPL ND 38-28W E27 830

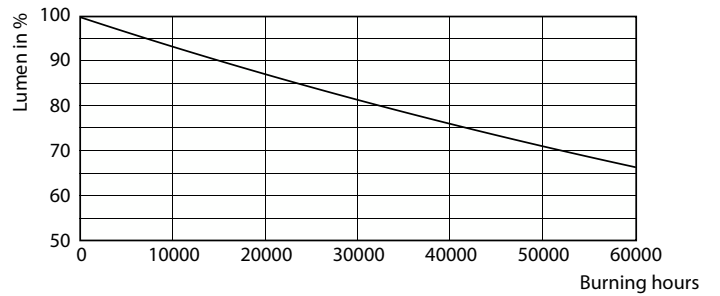
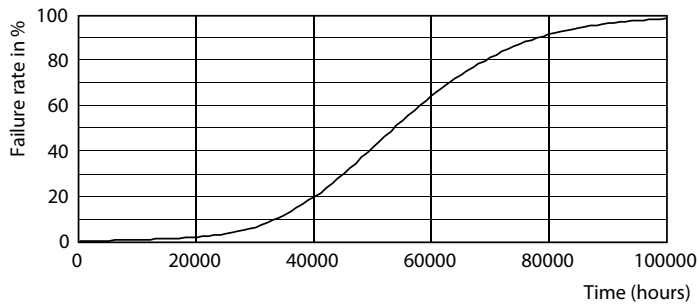
Light Distribution Diagram - TForce LED HPL ND 38-28W E27 830



General Uniform Lighting
 1 x TForce LED HPL ND 38-28W E27 830
 Philips Lighting BV
 April 2026

General uniform lighting - TForce LED HPL ND 38-28W E27 830

Lifetime



LEDTrueForce Others 360

Lumen Maintenance Diagram - TForce LED HPL ND 38-28W E27 830

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