



TrueForce - LED HID HPL



TForce LED HPL ND 57-42W E40 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	
Cap-Base	E40
Nominal lifetime	50,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere
CE mark	Yes
EU RoHS compliant	Yes
Light Technical	
Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	360 degree(s)
Luminous Flux	5,700 lm

Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	135 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	1.6
Photobiological safety according to EN 62471	RG1
Operating and Electrical	
Line Frequency	50 to 60 Hz

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Input Frequency	50 to 60 Hz
Power Consumption	42 W
Lamp Current (Nom)	186 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	6.3
Max. lamp no. on MCB B type 10A - Mains	30
Max. lamp no. on MCB B type 10A – EM ballast without Comp. Cap.	30
Max. lamp no. on MCB B type 10A – EM ballast with Comp. Cap.	7
Max. lamp no. on MCB B type 16A - Mains	48
Max. lamp no. on MCB B type 16A – EM ballast without Comp. Cap.	48
Max. lamp no. on MCB B type 16A – EM ballast with Comp. Cap.	11
Ballast Compatibility	EM/Mains

Temperature

Ambient temperature range	-30 to +45 °C
T-Case Maximum (Nom)	65 °C

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Clear
Bulb Shape	Others

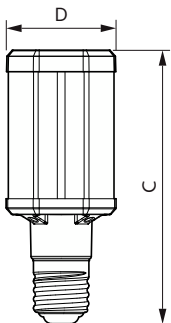
Approval and Application

Energy Efficiency Class	D
Energy Consumption kWh/1000 h	42 kWh
EPREL Registration Number	403605

Product Data

Order product name	TForce LED HPL ND 57-42W E40 830
Full product name	TForce LED HPL ND 57-42W E40 830
Full product code	871869963826900
Order code	929002006702
Material Nr. (12NC)	929002006702
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699638269
Numerator - Packs per outer box	6
EAN/UPC - Case	8718699638276

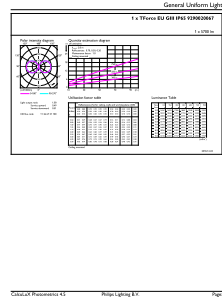
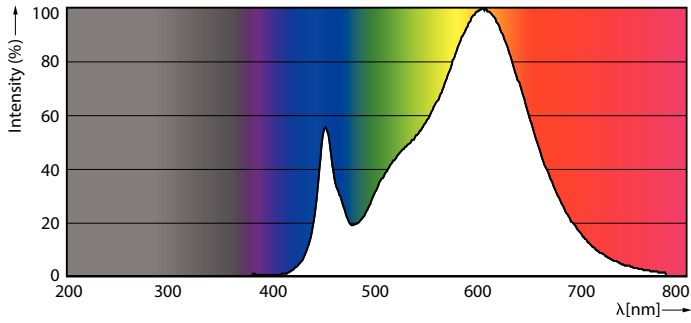
Dimensional drawing



Product	D	C
TForce LED HPL ND 57-42W E40 830	84 mm	191 mm

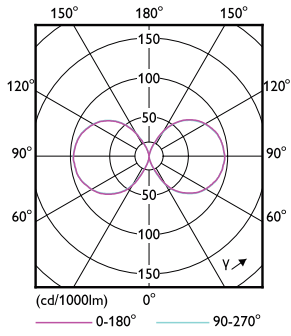
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Photometric data



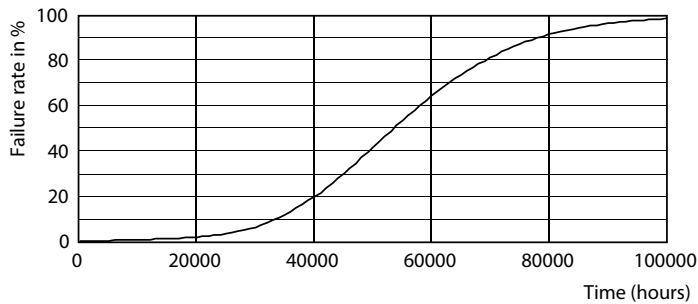
Spectral Power Distribution Colour - TForce LED HPL ND 57-42W E40 830

General uniform lighting - TForce LED HPL ND 57-42W E40 830

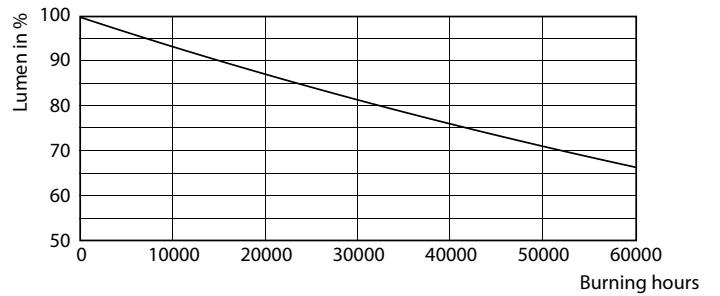


Light Distribution Diagram - TForce LED HPL ND 57-42W E40 830

Lifetime



Life Expectancy Diagram - TForce LED HPL ND 57-42W E40 830



Lumen Maintenance Diagram - TForce LED HPL ND 57-42W E40 830

