



TrueForce - LED HID HPL

TForce 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 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 | | Color Designation | |
|----------------------------|--------------------|---|-------------|
| Cap-Base | E27 [E27] | Color Designation | White (WH) |
| Nominal lifetime | 50,000 hour(s) | Correlated Color Temperature (Nom) | 3000 K |
| Switching Cycle | 50,000 | Luminous Efficacy (rated) (Nom) | 135 lm/W |
| Lighting Technology | LED | Color Consistency | <6 |
| Flux measurement reference | Sphere | Color rendering index (CRI) | 80 |
| CE mark | Yes | LLMF At End Of Nominal Lifetime (Nom) | 70 % |
| EU RoHS compliant | Yes | Flickering value (PstLM) - Flickering value as per EN 61000-3-3 | 1 |
| Light Technical | | Stroboscopic effect visibility measure (SVM) | 1.6 |
| Color Code | 830 [CCT of 3000K] | Photobiological safety according to EN 62471 | RG1 |
| Beam Angle (Nom) | 360 degree(s) | Operating and Electrical | |
| Luminous Flux | 2,850 lm | Line Frequency | 50 to 60 Hz |

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|---|-------------|
| 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 |

Temperature

| | |
|---------------------------|---------------|
| Ambient temperature range | -30 to +45 °C |
| T-Case Maximum (Nom) | 55 °C |

Controls and Dimming

| | |
|----------|----|
| Dimmable | No |
|----------|----|

Mechanical and Housing

| | |
|-------------|--------|
| Bulb Finish | Clear |
| Bulb Shape | Others |

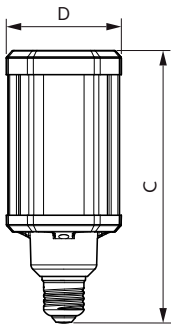
Approval and Application

| | |
|-------------------------------|--------|
| Energy Efficiency Class | D |
| Energy Consumption kWh/1000 h | 21 kWh |
| EPREL Registration Number | 403568 |

Product Data

| | |
|---------------------------------|------------------------------|
| Order product name | TForce LED HPL ND 28-21W E27 |
| | 830 |
| Full product name | TForce LED HPL ND 28-21W E27 |
| | 830 |
| Full product code | 871869963814600 |
| Order code | 929002006102 |
| Material Nr. (12NC) | 929002006102 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8718699638146 |
| Numerator - Packs per outer box | 6 |
| EAN/UPC - Case | 8718699638153 |

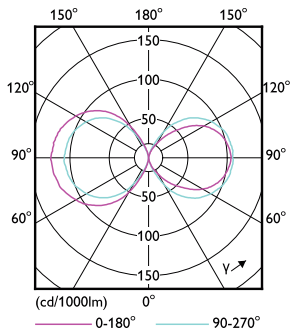
Dimensional drawing



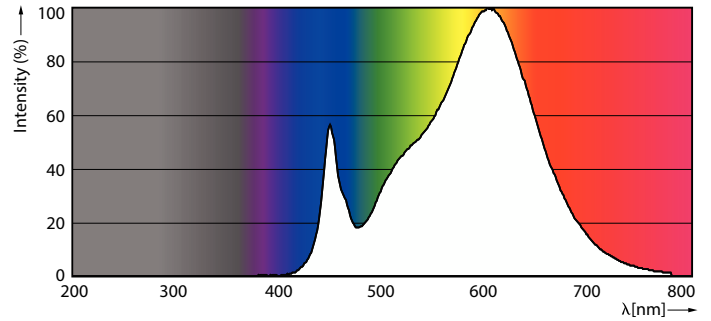
| Product | D | C |
|----------------------------------|-------|--------|
| TForce LED HPL ND 28-21W E27 830 | 75 mm | 178 mm |

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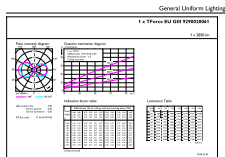
Photometric data



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



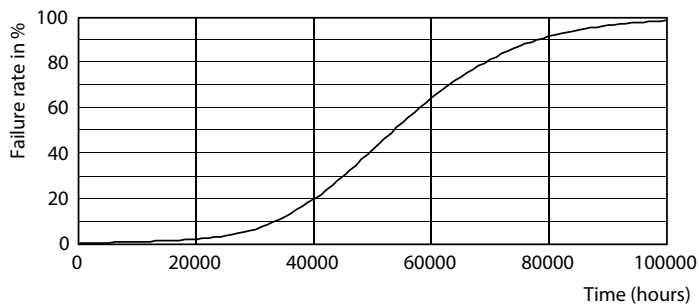
Spectral Power Distribution Colour - TForce LED HPL ND 28-21W E27 830



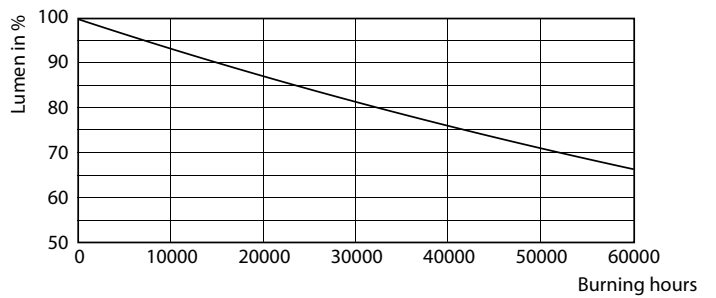
General Uniform Lighting
1 x TForce LED HPL ND 28-21W E27 830

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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