



# TrueForce LED Public (Urban/Road – HPL/SON)



## TForce LED HPL ND 38-28W E27 830

MASTER, LED HPL, Corn cob, EM/Mains, 28 W, HPL 80W, SON 70W, E27, 3000 K, 3800 lm, CRI 80, 50000 h

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        |          | Light Technical                     |                    |
|----------------------------|----------|-------------------------------------|--------------------|
| Cap base                   | E27      | Colour Code                         | 830 [CCT of 3000K] |
| Nominal lifetime           | 50,000 h | Beam angle (nom.)                   | 360 degree(s)      |
| Switching Cycle            | 50,000   | Luminous Flux                       | 3,800 lm           |
| Lighting Technology        | LED HPL  | Colour designation                  | White (WH)         |
| Flux measurement reference | Sphere   | Correlated Colour Temperature (Nom) | 3000 K             |
|                            |          | Luminous efficacy (rated) (nom.)    | 135 lm/W           |

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|                                              |      |
|----------------------------------------------|------|
| Colour consistency                           | <6   |
| Colour rendering index (CRI)                 | 80   |
| 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                                                            | 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

|                    |          |
|--------------------|----------|
| Lamp Finish        | Clear    |
| Bulb material      | Plastic  |
| Bulb shape         | Corn cob |
| Net Weight (Piece) | 0.370 kg |

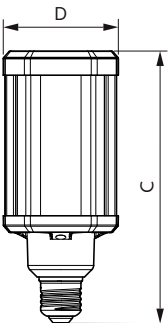
Approval and Application

|                                    |               |
|------------------------------------|---------------|
| Energy Efficiency Class            | D             |
| Energy-saving product              | Yes           |
| Energy consumption kWh/1,000 hours | 28 kWh        |
| EPREL Registration Number          | 403570        |
| CE mark                            | Yes           |
| EU RoHS compliant                  | Yes           |
| Flickering value (PstLM)           | 1             |
| Stroboscopic effect                | 1.6           |
| Ambient temperature range          | -30 to +45 °C |

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 EOC                        | 871869963818400                  |
| Order code                      | 929002006302                     |
| Material no. (12 NC)            | 929002006302                     |
| Numerator – quantity per pack   | 1                                |
| EAN/UPC — Product/Case          | 8718699638184                    |
| Numerator – packs per outer box | 6                                |
| EAN/UPC – Case                  | 8718699638191                    |

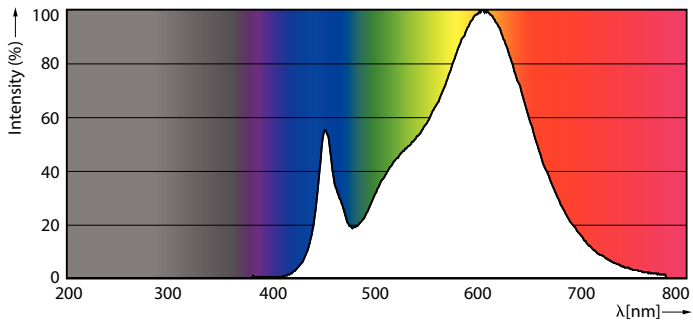
Dimensional drawing



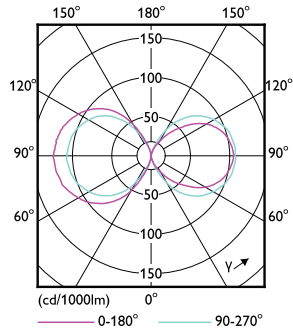
| Product                          | D     | C      |
|----------------------------------|-------|--------|
| TForce LED HPL ND 38-28W E27 830 | 75 mm | 178 mm |

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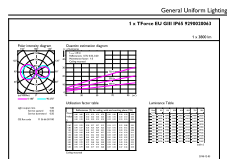
Photometric data



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



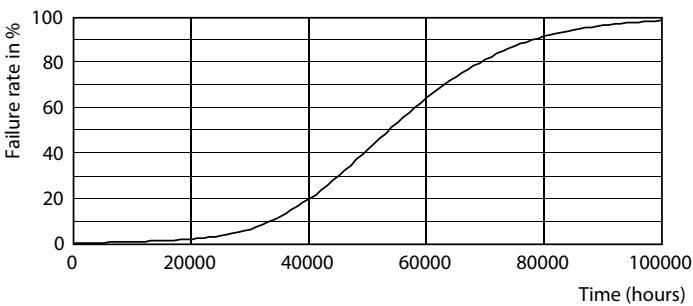
Light Distribution Diagram - TForce LED HPL ND 38-28W E27 830



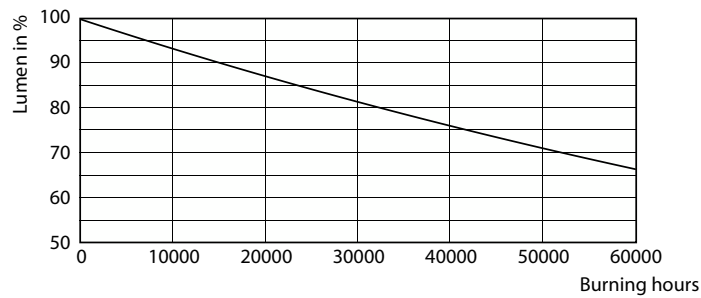
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General uniform lighting - TForce LED HPL ND 38-28W E27 830

Lifetime



LEDTrueForce Others 360



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

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