



# For your everyday lighting jobs, the new LED HPL solution for HID lamp replacement

## Corepro - LED HID HPL

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.

### Benefits

- A similar look and feel to conventional HID SON/HPL lamps
- Perfect fit in HID luminaires with mains connection
- IP65 design suitable for outdoor applications with IP rated base caps

### Features

- High Energy efficient lamps
- Long lifetime - 25,000 hrs
- Surge protection 2KV
- Pleasant white light with CRI 80
- Omnidirectional light around lamp, Frosted glass finish, uniform light distribution
- Additional Energy saving by Direct Mains connection
- IP65 product (IP-rated sockets required for outdoor applications)
- Right size and light distribution for retrofit

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## Application

- Road and Street
- Parking Garages
- Parks and Plazas

## Warnings and Safety

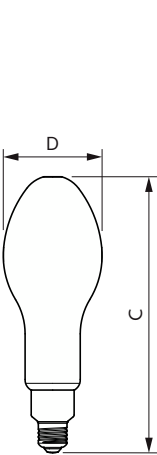
- Installation should always be performed by a qualified electrician or installer. Use the installation guide for instructions.

## Versions



LED TForce Core LED HPL 36W E40 FR

## Dimensional drawing

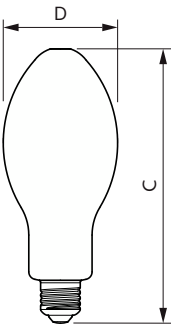


| Product                            | D       | C      |
|------------------------------------|---------|--------|
| TForce Core LED HPL 36W E40 830 FR | 91.5 mm | 234 mm |
| TForce Core LED HPL 36W E40 840 FR | 91.5 mm | 234 mm |

| Product                            | D       | C      |
|------------------------------------|---------|--------|
| TForce Core LED HPL 26W E27 830 FR | 90 mm   | 245 mm |
| TForce Core LED HPL 26W E27 840 FR | 90 mm   | 245 mm |
| TForce Core LED HPL 36W E27 830 FR | 91.5 mm | 249 mm |
| TForce Core LED HPL 36W E27 840 FR | 91.5 mm | 249 mm |

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Dimensional drawing



| Product                            | D     | C      |
|------------------------------------|-------|--------|
| TForce Core LED HPL 13W E27 830 FR | 76 mm | 183 mm |
| TForce Core LED HPL 13W E27 840 FR | 76 mm | 183 mm |
| TForce Core LED HPL 18W E27 830 FR | 76 mm | 183 mm |
| TForce Core LED HPL 18W E27 840 FR | 76 mm | 183 mm |

| General Information         |                |
|-----------------------------|----------------|
| Nominal lifetime            | 25,000 hour(s) |
| Light Technical             |                |
| Beam Angle (Nom)            | 300 degree(s)  |
| Color rendering index (CRI) | 80             |
| Operating and Electrical    |                |
| Input Frequency             | 50 to 60 Hz    |
| Line Frequency              | 50 to 60 Hz    |
| Starting Time (Nom)         | 0.5 s          |
| Controls and Dimming        |                |
| Dimmable                    | No             |
| Mechanical and Housing      |                |
| Bulb Finish                 | Frosted        |
| Approval and Application    |                |
| Ambient temperature range   | -30 to +45 °C  |

General Information

| Order Code   | Full Product Name                  | Cap-Base | Switching Cycle |
|--------------|------------------------------------|----------|-----------------|
| 929002349702 | TForce Core LED HPL 13W E27 830 FR | E27      | 50,000          |
| 929002349802 | TForce Core LED HPL 13W E27 840 FR | E27      | 50,000          |
| 929002349902 | TForce Core LED HPL 18W E27 830 FR | E27      | 50,000          |
| 929002350002 | TForce Core LED HPL 18W E27 840 FR | E27      | 50,000          |
| 929002481402 | TForce Core LED HPL 36W E40 830 FR | E40      | 50,000          |
| 929002481502 | TForce Core LED HPL 36W E40 840 FR | E40      | 50,000          |
| 929002350102 | TForce Core LED HPL 26W E27 830 FR | E27      | 15,000          |
| 929002350202 | TForce Core LED HPL 26W E27 840 FR | E27      | 15,000          |
| 929002481202 | TForce Core LED HPL 36W E27 830 FR | E27      | 50,000          |
| 929002481302 | TForce Core LED HPL 36W E27 840 FR | E27      | 50,000          |

Light Technical

| Order Code   | Full Product Name                  | Correlated Color Temperature (Nom) | Color Code | LLMF At End Of Nominal Lifetime (Nom) | Luminous Flux |
|--------------|------------------------------------|------------------------------------|------------|---------------------------------------|---------------|
|              |                                    |                                    |            |                                       |               |
| 929002349702 | TForce Core LED HPL 13W E27 830 FR | 3000 K                             | 830        | 70 %                                  | 2,000 lm      |
| 929002349802 | TForce Core LED HPL 13W E27 840 FR | 4000 K                             | 840        | 70 %                                  | 2,000 lm      |
| 929002349902 | TForce Core LED HPL 18W E27 830 FR | 3000 K                             | 830        | 70 %                                  | 3,000 lm      |

| Order Code   | Full Product Name                  | Correlated Color Temperature (Nom) | Color Code | LLMF At End Of Nominal Lifetime (Nom) | Luminous Flux |
|--------------|------------------------------------|------------------------------------|------------|---------------------------------------|---------------|
|              |                                    |                                    |            |                                       |               |
| 929002350002 | TForce Core LED HPL 18W E27 840 FR | 4000 K                             | 840        | 70 %                                  | 3,000 lm      |
| 929002481402 | TForce Core LED HPL 36W E40 830 FR | 3000 K                             | 830        | 70 %                                  | 5,500 lm      |
| 929002481502 | TForce Core LED HPL 36W E40 840 FR | 4000 K                             | 840        | 70 %                                  | 6,000 lm      |

Corepro - LED HID HPL

| Order Code   | Full Product Name                  | Correlated Color Temperature (Nom) | Color Code | LLMF At End Of Nominal Lifetime (Nom) | Luminous Flux |
|--------------|------------------------------------|------------------------------------|------------|---------------------------------------|---------------|
|              |                                    |                                    |            |                                       |               |
| 929002350102 | TForce Core LED HPL 26W E27 830 FR | 3000 K                             | 830        | 0.7 %                                 | 4,000 lm      |
| 929002350202 | TForce Core LED HPL 26W E27 840 FR | 4000 K                             | 840        | 0.7 %                                 | 4,000 lm      |

| Order Code   | Full Product Name                  | Correlated Color Temperature (Nom) | Color Code | LLMF At End Of Nominal Lifetime (Nom) | Luminous Flux |
|--------------|------------------------------------|------------------------------------|------------|---------------------------------------|---------------|
|              |                                    |                                    |            |                                       |               |
| 929002481202 | TForce Core LED HPL 36W E27 830 FR | 3000 K                             | 830        | 70 %                                  | 5,500 lm      |
| 929002481302 | TForce Core LED HPL 36W E27 840 FR | 4000 K                             | 840        | 70 %                                  | 6,000 lm      |

Operating and Electrical

| Order Code   | Full Product Name                  | Power Consumption |
|--------------|------------------------------------|-------------------|
| 929002349702 | TForce Core LED HPL 13W E27 830 FR | 13 W              |
| 929002349802 | TForce Core LED HPL 13W E27 840 FR | 13 W              |
| 929002349902 | TForce Core LED HPL 18W E27 830 FR | 18 W              |
| 929002350002 | TForce Core LED HPL 18W E27 840 FR | 18 W              |
| 929002481402 | TForce Core LED HPL 36W E40 830 FR | 36 W              |

| Order Code   | Full Product Name                  | Power Consumption |
|--------------|------------------------------------|-------------------|
| 929002481502 | TForce Core LED HPL 36W E40 840 FR | 36 W              |
| 929002350102 | TForce Core LED HPL 26W E27 830 FR | 26 W              |
| 929002350202 | TForce Core LED HPL 26W E27 840 FR | 26 W              |
| 929002481202 | TForce Core LED HPL 36W E27 830 FR | 36 W              |
| 929002481302 | TForce Core LED HPL 36W E27 840 FR | 36 W              |

Temperature

| Order Code   | Full Product Name                  | T-Case Maximum (Nom) |
|--------------|------------------------------------|----------------------|
| 929002349702 | TForce Core LED HPL 13W E27 830 FR | 38.2 °C              |
| 929002349802 | TForce Core LED HPL 13W E27 840 FR | 38.2 °C              |
| 929002349902 | TForce Core LED HPL 18W E27 830 FR | 43.2 °C              |
| 929002350002 | TForce Core LED HPL 18W E27 840 FR | 43.2 °C              |
| 929002481402 | TForce Core LED HPL 36W E40 830 FR | 43.3 °C              |

| Order Code   | Full Product Name                  | T-Case Maximum (Nom) |
|--------------|------------------------------------|----------------------|
| 929002481502 | TForce Core LED HPL 36W E40 840 FR | 43.3 °C              |
| 929002350102 | TForce Core LED HPL 26W E27 830 FR | 54 °C                |
| 929002350202 | TForce Core LED HPL 26W E27 840 FR | 54 °C                |
| 929002481202 | TForce Core LED HPL 36W E27 830 FR | 43.3 °C              |
| 929002481302 | TForce Core LED HPL 36W E27 840 FR | 43.3 °C              |

Mechanical and Housing

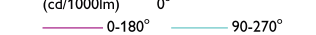
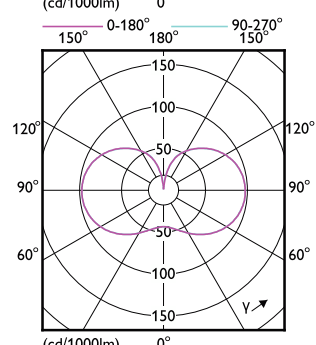
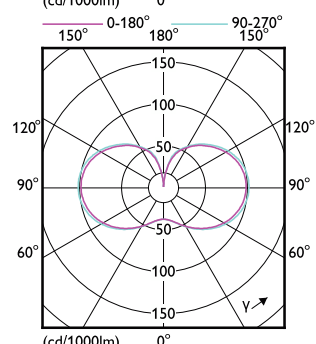
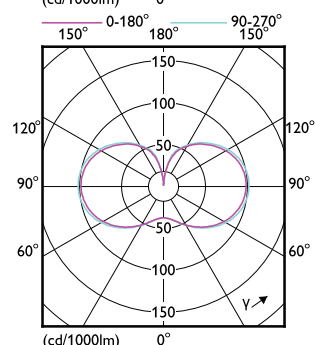
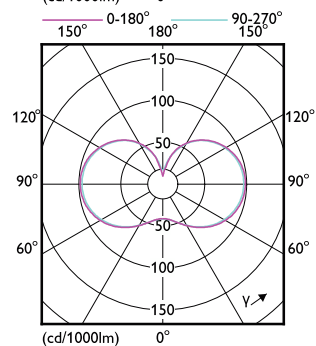
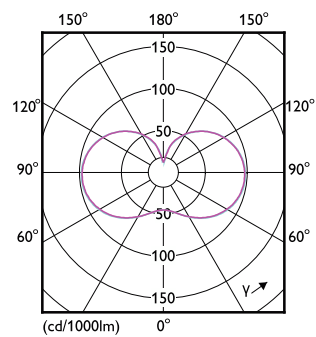
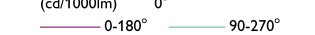
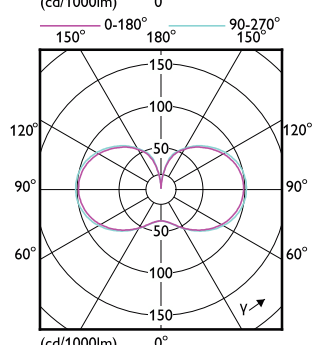
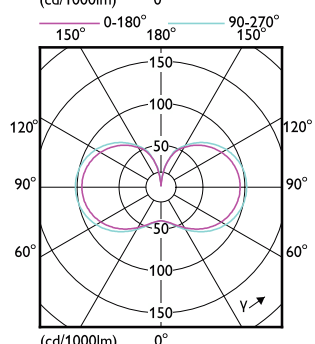
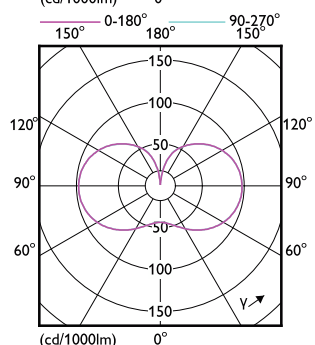
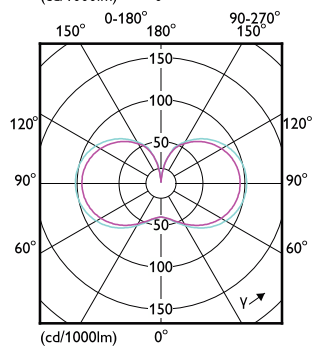
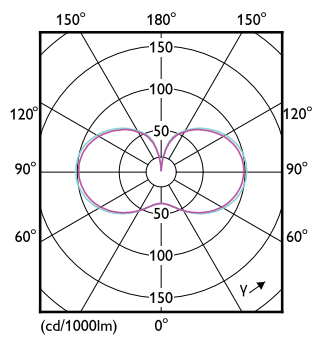
| Order Code   | Full Product Name                  | Bulb Shape |
|--------------|------------------------------------|------------|
| 929002349702 | TForce Core LED HPL 13W E27 830 FR | ED75       |
| 929002349802 | TForce Core LED HPL 13W E27 840 FR | ED75       |
| 929002349902 | TForce Core LED HPL 18W E27 830 FR | ED75       |
| 929002350002 | TForce Core LED HPL 18W E27 840 FR | ED75       |
| 929002481402 | TForce Core LED HPL 36W E40 830 FR | ED90       |

| Order Code   | Full Product Name                  | Bulb Shape |
|--------------|------------------------------------|------------|
| 929002481502 | TForce Core LED HPL 36W E40 840 FR | ED90       |
| 929002350102 | TForce Core LED HPL 26W E27 830 FR | ED90       |
| 929002350202 | TForce Core LED HPL 26W E27 840 FR | ED90       |
| 929002481202 | TForce Core LED HPL 36W E27 830 FR | ED90       |
| 929002481302 | TForce Core LED HPL 36W E27 840 FR | ED90       |

Approval and Application

| Order Code   | Full Product Name                  | Energy Consumption kWh/1000 h |
|--------------|------------------------------------|-------------------------------|
| 929002349702 | TForce Core LED HPL 13W E27 830 FR | 13 kWh                        |
| 929002349802 | TForce Core LED HPL 13W E27 840 FR | 13 kWh                        |
| 929002349902 | TForce Core LED HPL 18W E27 830 FR | 18 kWh                        |
| 929002350002 | TForce Core LED HPL 18W E27 840 FR | 18 kWh                        |
| 929002481402 | TForce Core LED HPL 36W E40 830 FR | 36 kWh                        |
| 929002481502 | TForce Core LED HPL 36W E40 840 FR | 36 kWh                        |
| 929002350102 | TForce Core LED HPL 26W E27 830 FR | 26 kWh                        |
| 929002350202 | TForce Core LED HPL 26W E27 840 FR | 26 kWh                        |
| 929002481202 | TForce Core LED HPL 36W E27 830 FR | 36 kWh                        |

| Order Code   | Full Product Name                  | Energy Consumption kWh/1000 h |
|--------------|------------------------------------|-------------------------------|
| 929002481302 | TForce Core LED HPL 36W E27 840 FR | 36 kWh                        |



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