Real pros have powerful substitutes for HID

Discover the high-performance portfolio of Philips LED lamps for HID replacement.

philips.com/trueforce-led-lamps
Switch out of date HID for out of this world LED

Philips TrueForce LED lamps provide an easy LED solution to replace HPL, HPI, SOX as well as SON-T lamps.

Enjoy the benefits of LED like improved energy efficiency and long lifetime, while keeping your initial investment low. With the right lamp size and light distribution, you can easily fit TrueForce LED lamps into your customers existing system, thereby enhancing the light quality without having to change the light fixtures or sacrifice the light effect. Our highest standard LED technology guarantees low maintenance and has a five-year warranty.

Great light should go anywhere, which is why the Philips TrueForce LED range feels at home in a number of applications, from industry and retail to urban, street, and road.

And because budgets can be as varied as applications, the TrueForce family comes in TrueForce LED and the even more cost-effective TrueForce Core LED. Both offer outstanding performance that lasts and performs longer.

For more information visit: philips.com/trueforce-led-lamps

Easy adoption
No need to change the fixture!

Fast payback
It usually takes less than two years for LED lamps to pay for themselves.

Sustainability
Low energy consumption and a longer lifetime make LED lighting the sustainable choice.

Right light distribution
Enhances comfort and safety in multiple application areas.

Low investment, long lifetime
The long lifetime of up to 70,000 hours makes LED a clever investment.

Highest standard LED technology
Low maintenance and up to 5 years warranty pay off!

Everywhere amazing

Industry and Retail
Replace conventional HPL lamps to improve light quality, safety and productivity.

Urban
Easily replace existing HPI and SON-T lamps with TrueForce LED lamps for more sustainable, safer and brighter urban locations.

Road, Street and Landscape
Big in performance and low in maintenance: use TrueForce LED lamps to replace conventional SOX, SON-T and CDO lamps.

Finding the right lamps for different plans, needs and budgets is easy with the extensive Philips portfolio. It ensures that you always have a quality solution at the price you want.

TrueForce / MASTER
Robust lighting solutions for top performance and more sustainability.

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**TrueForce Core / CorePro**

**CorePro LED HPL**
Philips CorePro LED HPL lamps offer you an easy, short-payback LED solution to replace HID lamps in road, street and other public areas, as well as urban locations.

- Similar look & feel as conventional HID SON/HPL lamps
- IP65 design suitable for indoor and outdoor applications*
- Perfect fit in HID luminaires with Mains only connection

Click here for more details

**CorePro LED SON-T**
Replace conventional SON-T lamps with highly efficient, cost-saving LED in road applications. As a quick payback solution these lamps combine instant savings with a low initial investment.

- First full glass LED lamp for road lighting
- Enables up to 60% energy saving compared to conventional road lighting and lower initial investment
- High efficiency GaN driver design
- Perfect fit in HID luminaires with Mains only connection

Click here for more details

**TrueForce Core LED highbay HPL**
Philips CorePro LED industrial and retail lamps give you an affordable and easy payback solution to replace HID lamps in highbay applications.

- Quick and easy payback solutions to replace HID lamps in low/medium and highbay applications
- Low initial investment and quick payback through energy costs savings
- Additional energy savings by replacing EM gear for mains only connection

Click here for more details

**TrueForce Core LED highbay HPL**
Easily replace HID lamps in warehouses, factories, shops and transport hubs and provide instant savings with low initial investment.

- Enhance lighting quality with easy adoption
- Low initial investment and quick payback through energy cost savings
- Light on the wider working space
- Wide beam angle (WB 240˚)

Click here for more details

**TrueForce CorePro highbay HPL**
- Shorter ballast time
- Easy adoption of new technology
- Low initial investment
- High initial energy efficiency

Click here for more details

**TrueForce LED highbay universal HPI**
Bring all the benefits of replacing HID with LED to industrial and retail facilities like warehouses, factories, shops and transport hubs.

- Quick and easy payback solution to replace HID lamps in industrial and retail and public applications
- Low initial investment and quick payback through energy cost savings
- Direct retrofit – no need to change the fixture
- Two beam angles: narrow beam (NB 60˚); wide beam (WB 120˚)
- Weight
- Compaitible with both 250W and 400W gear

Click here for more details

**TrueForce LED SOX**
- Direct retrofit for traditional SOX system with TrueForce LED SOX lamp and integrated LED driver
- Low initial investment and quick payback through energy cost savings
- Perfect fit in HID SOX luminaires with Mains only connection

Click here for more details

**TrueForce LED HPL**
- Easy retrofit solution, no changing of luminaire’s ballast or reflector necessary
- Long lifetime of 50,000 hrs
- IP65 design suitable for industrial and outdoor applications
- Perfect fit in HID luminaires with Mains only connection

Click here for more details

**MASTER LED HPL**
The new Philips MASTER LED HPL lamps offer an easy and short payback LED solution to replace HID lamps in urban applications.

- Similar look and feel as conventional HID
- Long lifetime of 50,000 hrs
- IP65 design suitable for indoor and outdoor applications
- Perfect fit in HID luminaires with Mains only connection

Click here for more details

**TrueForce MASTER LED SON-T**
Your easy and short-payback LED solution to replace HID lamps in urban and road applications.

- Easy retrofit solution, no changing of luminaire’s ballast or reflector necessary
- Cost saving with short payback time
- Low initial investment
- Two versions: InstantFit, EM/Mains Voltage

Click here for more details

**TrueForce LED HPI**
- Quick and easy payback solution to replace HID lamps in highbay applications
- Direct retrofit – for EM/Mains connections

Click here for more details

**TrueForce LED SOX**
- Direct retrofit for traditional SOX system with TrueForce LED SOX lamp and integrated LED driver
- Low initial investment and quick payback through energy cost savings
- Perfect fit in HID SOX luminaires with Mains only connection

Click here for more details

**TrueForce LED HPL**
- Easy retrofit TrueForce LED lamps into existing systems in public urban applications like parks, squares, streets and parking areas.

Click here for more details

*Use relevant IP rated sockets for outdoor installations

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Find the right Philips TrueForce lamp for every application and demand using our handy product finder:
philips.com/productfinder

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3
Real pros replace HID with "WOW"

Discover the new Philips MASTER LED HPL that offers a perfect LED solution to replace HID lamps for every budget and requirement.

Benefits and features

• Enables up to 60% energy saving compared to conventional road lighting
• Lifetime of 50,000 hours
• Up to 6000 lm output thanks to patented high-power LED filament technology
• IP65 for long-lasting outdoor use
• High color rendering (CRI80) and color temperatures of 3000 and 4000 K

Exceeding expectations with TrueForce LED SON-T

Background
Stratford-upon-Avon, a medieval market town in England’s West Midlands, is the 16th-century birthplace of William Shakespeare. As you might expect from a town steeped in history, Stratford-upon-Avon has a large number of Heritage lanterns. Whilst much of Warwickshire County Council’s residential and traffic routes have already been upgraded to LED, the Heritage lanterns had not been.

The main concern in upgrading was maintaining the structural integrity of the lanterns. Whilst replacing the lanterns was considered, the cost was deemed prohibitive.

A small trial of Philips TrueForce LED SON-T lamps was installed.

The solution
Philips TrueForce LED SON-T lamps were selected, as the product offered a like for like replacement into the existing lantern using the existing optic to photometrically replace the SON-T & CDO-TT lamps.

Philips TrueForce LED SON-T lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy-efficiency and long lifetime benefits of LED to HID replacement, while providing instant savings with a low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce LED SON-T lamps into the existing systems without changing the luminaire’s ballast or reflector while enhancing the lighting quality.

Following trials, Warwickshire County Council took the decision to replace all Heritage and Beta 5 lanterns with Philips TrueForce. The upgrade means that energy usage will be more than halved.

With the improved energy efficiency, the payback period on the installation will be less than two years.

"We were confident using a Philips lamp that we were getting a top product but TrueForce has exceeded our expectations.”

Mike Cunningham, Street Lighting Manager, Warwickshire County Council

Instant savings ahead

<table>
<thead>
<tr>
<th></th>
<th>Conventional HPL</th>
<th>MASTER LED HPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy saving</td>
<td>60%</td>
<td>33.5%</td>
</tr>
<tr>
<td>Longer lifetime</td>
<td>200W</td>
<td>15,000 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10,000 hrs</td>
</tr>
</tbody>
</table>

Energy savings/year: 2,477 €

Payback time: < 19 months

Make the sustainable choice: Over its lifetime, the new Philips MASTER LED HPL lamp saves the equivalent of the CO₂ emissions absorbed by more than 158 trees!¹

¹ Based on 12h burning per day, 365 days per year. Including ballast loss. Lamp consumption is 70W. Energy price based on the European average of 0.33 cent/kWh. Including maintenance and lamp replacement cost.

² Based on multiple scientific literature; an average fully grown tree can absorb 22 kg CO₂ per year.
Choose the right TrueForce LED lamp

### Urban

- **HPL E27 50W**
  - Core LED HPL 13W
  - Core LED HPL 18W
  - MAS LED HPL 19W
  - Tforce LED HPL 21W

- **HPL E27 80W**
  - Core LED HPL 13W
  - Core LED HPL 18W
  - MAS LED HPL 19W
  - MAS LED HPL 24W
  - Tforce LED HPL 21W
  - Tforce LED HPL 28W

- **HPL E27 125W**
  - Core LED HPL 18W
  - Core LED HPL 26W
  - MAS LED HPL 19W
  - MAS LED HPL 24W
  - Tforce LED HPL 21W
  - Tforce LED HPL 28W

- **HPL E40 200W**
  - Core LED HPL 36W
  - MAS LED HPL 33W
  - Tforce LED HPL 42W

- **HPL E40 200W**
  - Core LED HPL 36W
  - MAS LED HPL 33W
  - Tforce LED HPL 42W

- **SON/CDO-ET E27 50W**
  - Core LED HPL 19W
  - Core LED HPL 18W
  - MAS LED HPL 19W
  - Tforce LED HPL 21W

- **SON/CDO-ET E27 70W SON-H E27 68W**
  - Core LED HPL 18W
  - Core LED HPL 26W
  - MAS LED HPL 19W
  - MAS LED HPL 24W
  - Tforce LED HPL 21W
  - Tforce LED HPL 28W

### Retail

- **Highbay / Mallay**
  - Core LED HPL 13W
  - Core LED HPL 18W
  - MAS LED HPL 19W
  - MAS LED HPL 24W
  - Tforce LED HPL 21W
  - Tforce LED HPL 28W

### Industry

- **Highbay**
  - Core LED HPL 13W
  - Core LED HPL 18W
  - MAS LED HPL 19W
  - MAS LED HPL 24W
  - Tforce LED HPL 21W
  - Tforce LED HPL 28W

### Road

- **Road, Street**
  - Core LED Road 17W
  - MAS LED SON-T Road 23W

- **Road, Flood lighting**
  - Core LED Road 17W
  - MAS LED SON-T Road 23W

### Symbols and abbreviations

- **Trueforce Core LED lamps:** Convenient and cost-effective
- **Trueforce LEDs:** Top-quality and robust
- **X** True replacement: Initial perceived light effect/lux levels of LED lamp is the same or better than conventional HID
- **O** Average equivalence: Average perceived light effect / lux levels of LED lamp during the life comparable to conventional HID
- **UN** Universal: Plug & play solution with existing gear, no need to re-wire or remove any components. Can also work with direct mains voltage input to save additional energy.
- **EM** EM/Mains: The solution works both with EM ballast or connected directly to Mains. When being connected directly to mains you achieve even more energy savings. When connected to the existing EM ballast, the ignitor as well as a parallel compensation capacitor should be removed to decrease the power factor.
- **IF** Instantfit: Plug & play solution with existing gear, no need to re-wire or remove any components. Not recommended to remove ignitor and capacitor. Cannot work on Direct Mains.
- **M** Mains only: Mandatory to bypass EM ballast, capacitor and ignitor. Can only be used with direct mains voltage input.
Get ready to save energy and costs

### Road

<table>
<thead>
<tr>
<th>70W SON-T</th>
<th>TrueForce MASTER LED SON-T IF</th>
<th>TrueForce MASTER LED SON-T MV</th>
<th>TrueForce Core LED SON-T Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifetime</td>
<td>15,000 hrs</td>
<td>70,000 hrs</td>
<td>70,000 hrs</td>
</tr>
<tr>
<td>Lamp wattage</td>
<td>70W</td>
<td>34W</td>
<td>34W</td>
</tr>
<tr>
<td>Average buying price/lamp</td>
<td>16 €</td>
<td>115.40 €</td>
<td>106.76 €</td>
</tr>
<tr>
<td>Total costs/year/lamp²</td>
<td>132.31 €</td>
<td>57.33 €</td>
<td>57.19 €</td>
</tr>
<tr>
<td>Number of lamps</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burning hours/year</td>
<td>4,380 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total savings/year</td>
<td>7,458 €</td>
<td>7,512 €</td>
<td>8,365 €</td>
</tr>
<tr>
<td>Payback period</td>
<td>1.5 years</td>
<td>1.4 years</td>
<td>0.6 years</td>
</tr>
<tr>
<td>Reduced CO₂ emissions over lifetime³</td>
<td>149,600 kg</td>
<td>149,900 kg</td>
<td>62,000 kg</td>
</tr>
<tr>
<td>Trees needed for equal CO₂ uptake³</td>
<td>6,810</td>
<td>6,810</td>
<td>2,810</td>
</tr>
</tbody>
</table>

Choose TrueForce MASTER LED SON-T lamps for extra durable lighting with top performance and great energy savings. Choose TrueForce Core LED SON-T lamps for reliable road lighting with an attractive payback time.

### Industry

<table>
<thead>
<tr>
<th>400W HPI</th>
<th>TrueForce LED highbay HPI Universal (UN)</th>
<th>TrueForce LED highbay HPI Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifetime</td>
<td>15,000 hrs</td>
<td>50,000 hrs</td>
</tr>
<tr>
<td>Lamp wattage</td>
<td>400W</td>
<td>140W</td>
</tr>
<tr>
<td>Average buying price/lamp</td>
<td>23 €</td>
<td>213.04 €</td>
</tr>
<tr>
<td>Total costs/year/lamp²</td>
<td>634.70 €</td>
<td>262.08 €</td>
</tr>
<tr>
<td>Number of lamps</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Burning hours/year</td>
<td>4,380 hrs</td>
<td></td>
</tr>
<tr>
<td>Total savings/year</td>
<td>37,262 €</td>
<td>41,116 €</td>
</tr>
<tr>
<td>Payback period</td>
<td>0.6 years</td>
<td>0.5 years</td>
</tr>
<tr>
<td>Reduced CO₂ emissions over lifetime²</td>
<td>546,000 kg</td>
<td>598,500 kg</td>
</tr>
<tr>
<td>Trees needed for equal CO₂ uptake³</td>
<td>24,810</td>
<td>27,200</td>
</tr>
</tbody>
</table>

Choose TrueForce LED highbays for extra durable lighting with top performance and great energy savings.

### Retail

<table>
<thead>
<tr>
<th>125W HPL</th>
<th>CorePro LED HPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifetime</td>
<td>15,000 hrs</td>
</tr>
<tr>
<td>Lamp wattage</td>
<td>125W</td>
</tr>
<tr>
<td>Average buying price/lamp</td>
<td>15 €</td>
</tr>
<tr>
<td>Total costs/year/lamp²</td>
<td>227.40 €</td>
</tr>
<tr>
<td>Number of lamps</td>
<td>100</td>
</tr>
<tr>
<td>Burning hours/year</td>
<td>4,380 hrs</td>
</tr>
<tr>
<td>Total savings/year</td>
<td>17,943 €</td>
</tr>
<tr>
<td>Payback period</td>
<td>0.3 years</td>
</tr>
<tr>
<td>Reduced CO₂ emissions over lifetime³</td>
<td>130,200 kg</td>
</tr>
</tbody>
</table>

Choose TrueForce Core LED HPL lamps for low-maintenance retail lighting with a low initial investment and an attractive payback time.

### Urban

<table>
<thead>
<tr>
<th>125W HPL</th>
<th>MASTER LED HPL</th>
<th>CorePro LED HPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifetime</td>
<td>15,000 hrs</td>
<td>25,000 hrs</td>
</tr>
<tr>
<td>Lamp wattage</td>
<td>125W</td>
<td>26W</td>
</tr>
<tr>
<td>Average buying price/lamp</td>
<td>15 €</td>
<td>46 €</td>
</tr>
<tr>
<td>Total costs/year/lamp²</td>
<td>227.40 €</td>
<td>47.96 €</td>
</tr>
<tr>
<td>Number of lamps</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Burning hours/year</td>
<td>4,380 hrs</td>
<td></td>
</tr>
<tr>
<td>Total savings/year</td>
<td>18,465 €</td>
<td></td>
</tr>
<tr>
<td>Payback period</td>
<td>0.4 years</td>
<td></td>
</tr>
<tr>
<td>Reduced CO₂ emissions over lifetime³</td>
<td>264,600 kg</td>
<td>130,200 kg</td>
</tr>
<tr>
<td>Trees needed for equal CO₂ uptake³</td>
<td>120,200</td>
<td>5,910</td>
</tr>
</tbody>
</table>

Choose MASTER LED HPL lamps for extra durable lighting with top performance and great energy savings. Choose CorePro LED HPL lamps for reliable lighting with an attractive payback time.

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All calculations are based on the European average of 0.335 €/kWh.¹ Including maintenance and lamp replacement cost.² Calculation based on CO₂ gas emissions of 0.42 kg/kW.³ Based on multiple scientific literature, an average fully grown tree can absorb 22 kg CO₂ per year.

Click here and use our online total cost of ownership calculator for all of your projects!
Philips LED vs. HID

Replace outdated HID with outstanding LED

Ever wonder what’s better when it comes to urban and road applications: HID or LED?

We took a closer look at the main factors you might consider when choosing lighting products. You’ll see that with all the advantages of LED lamps, it’s hard to find anything that’s not to like.

And it gets even better: Switching from HID to LED is easy with the Philips TrueForce LED range that offers a direct retrofit alternative for many conventional lamp types – without losing the familiar look and feel.

Choose TrueForce LED for projects that demand especially high-quality and robust LED lamps – and TrueForce Core LED for more cost-effective and convenient solutions.

Real pros switch to LED now!

Light quality

LED
- Very high light quality
- Wide range of color temperatures
- Broad spectrum of CRI – for a safer, more pleasant atmosphere in outdoor environments
- Instant 100% brightness without start-up delay or flickering
- Optically efficient – emits light only towards usage direction

HID
- Very limited light spectrum (around 2200K)
- Low CRI values, usually emitting a yellow light
- Optically inefficient – at least half the light needs needs to be reflected and redirected

Efficiency and robustness

LED
- Highest system efficacy
- Shock resistant, robust technology
- with low failure rate
- Up to 5 years warranty
- Long lifetime of up to 50,000 hours
- IP ratings for outdoor usage

HID
- Lower system efficiency due to losses associated with omnidirectional light output
- Fragile, can fail in a number of ways
- Broken bulbs release a small amount of toxic mercury as a gas
- Approximately half the lifetime of LED

Cost of ownership

LED
- Relatively high initial costs – but low lifetime costs
- Virtually no maintenance needed – low frequency with which bulbs have to be changed out
- Major payback comes from energy efficiency improvements

HID
- Cheap to purchase, but much shorter service life
- Will require several replacements plus monitoring and replacing aging or expired components within the lifetime of a single LED lamps

Switching to LED has never been easier!

LED wins

LED wins

LED wins
The best products
• We’re setting new standards for high-quality products that result in less maintenance, fewer technical hiccups and strengthens your reputation as a reliable lighting expert.
• Our products are designed with easy installation in mind, saving you time and money.
• From connected lighting solutions to 3D printed luminaires – with Philips you get LED lighting that’s setting the reference in the industry and that keeps you ahead of the competition.

The widest portfolio
Whatever the need, whatever the budget: with our complete portfolio of LED lighting products you’ll always have the right solution at hand.

A partner that understands the challenges you face, saves you time.
Which is why we don’t only offer a comprehensive portfolio of LED luminaires and lamps, but also a couple of handy online tools that make your life easier.

Real pros choose Philips LED lighting for:

philips.com/installer
Installer hub
• All latest product information
• Installation videos and training
• Links to all tools
• And more!

philips.com/tco
TCO calculator
• Calculate the total cost of ownership (TCO) of your product in a few simple steps

philips.com/productfinder
Product finder
• Easily find the perfect LED lamp or luminaire for every budget and application demand

philips.com/ledconversion
LED conversion tool
• Use our tool to help clients switch to Philips’ LEDs and enjoy energy savings of up to 75%1 within 5 months2

1 According to Signify modeling and market intelligence data.
2 Based on Philips MASTER LEDtube Ultra Efficient T8.
Signify, previously known as Philips Lighting, is the world leader in connected LED lighting systems, software and services. We proudly market the best lighting brands in the world, including Philips and Interact.

PHILIPS

The Philips brand stands for quality and energy-efficiency in light. For over 125 years, Philips products have been at the forefront of innovation. Today Philips is recognized as the leading brand in lighting.

interact

Interact is the brand of our IoT software and platform that manages smart lighting systems and the data that those systems collect. Smart, simple and scalable, Interact software can be used in a wide range of application areas, from small offices to entire cities.

You and Signify – a reliable partnership

Close cooperation before, during and after projects is important to us. Our local service teams make sure you always get the competent support and information you need.

We are closely working with local wholesalers to offer you flexible and on-time delivery – and product availability you can rely on.

To help you stay on top of your game the Signify Lighting Academy offers a comprehensive range of educational resources for you to grow your expertise and get certified.

Brighter lives, better world

Signify is 100% carbon neutral since September 2020.
We recycle up to 90% of our manufacturing waste.
We use 100% renewable electricity.
Our paper packaging for LED lamps and luminaires is saving over 500,000 kilos of plastic waste per year.

Thank you for choosing Philips products offered by Signify and joining us on our mission!