

# You want an easy way to replace HID with LED. **We've got it!**

It's never been easier for real pros to switch to LED. **Use this guide to find the right LED replacement for HID lamps.**

**LED  
made  
easy**

**REAL  
PROs  
REAL  
QUALITY**

## Switch out of date HID to **out of this world LED**

When it comes to unmatched lifetime, energy efficiency, and quality of light output, LED is the lighting to go with. What's more, replacing HID (High Intensity Discharge) lamps for high performing LED lighting is fast, easy, and hassle-free.

This informative guide is there to help you find the right LED solution for all your needs and applications. With it, you can quickly get started, make the switch and provide your customers with great light that shines and saves longer.

For more information about the range and applications, go to:

[philips.com/trueforce-led-lamps](https://philips.com/trueforce-led-lamps)

## Benefits of switching from HID to LED



### 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 50,000 hours makes LED a clever investment.



### Highest standard LED technology

Low maintenance and up to 5 years warranty pay off!

## HID LED

### Lamp replacements

High Intensity Discharge lamps include mercury, high (SON) & low (SOX) pressure sodium and metal halide conventional lamps. Check out our range of LED replacements:



#### TrueForce Core LED

- Similar look & feel as conventional HID, SON, HPL & MH lamps
- Perfect fit in HID luminaires on existing EM ballast or mains connection
- IP65 design suitable for indoor and outdoor applications

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#### TrueForce LED Urban

- Direct retrofit – no need to change the fixture
- Low initial investment and quick payback through energy cost savings
- Up to 6KV surge protection
- Light in weight

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#### TrueForce LED highbay universal

- Quick and easy payback solution to replace HID lamps in highbay applications
- Direct retrofit – no need to change the fixture
- Two beam angles: narrow beam (NB 60°); wide beam (WB 120°)
- Compatible with both 250W and 400W gears direct to mains or plug & play

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#### TrueForce LED Road

- Easy retrofit solution, no changing of luminaire's ballast or reflector necessary\*
- Cost saving with short payback time
- Low initial investment
- Direct mains driven

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#### TrueForce Core LED Road

- 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

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#### TrueForce LED SOX

- Direct retrofit for traditional SOX lamps with TrueForce LED SOX lamp and integrated LED driver
- Low initial investment and quick payback through energy cost savings

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LED  
**made easy:**  
[philips.com/  
trueforce-led-  
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# Urban



## Retail

Highbay / Midbay



Industry  
Highbay

| Road         |                              |              |
|--------------|------------------------------|--------------|
| Road, Street | Flood lighting,<br>Landscape | Road, Street |




| Wattage:       | TrueForce        |    |   |
|----------------|------------------|----|---|
| HPL E27 50W    | Core LED HPL 13W | MV | × |
| HPL E27 80W    | Core LED HPL 26W | MV | × |
|                | Core LED HPL 18W | MV | ○ |
|                | LED HPL 28W      | MV | × |
|                | LED HPL 21W      | MV | ○ |
|                |                  |    |   |
| HPL E27 125W   | Core LED HPL 36W | MV | × |
|                | Core LED HPL 26W | MV | ○ |
|                | LED HPL 42W      | MV | × |
|                | LED HPL 28W      | MV | ○ |
| HPL E40 125W   | Core LED HPL 36W | MV | × |
|                | LED HPL 42W      | MV | × |
| HPL E40 200W   | Core LED HPL 36W | MV | ○ |
|                | LED HPL 42W      | MV | ○ |
| SON-H E27 50W  | Core LED HPL 18W | MV | ○ |
|                | Core LED HPL 26W | MV | × |
|                | LED HPL 21W      | MV | ○ |
|                | LED HPL 28W      | MV | × |
| SON-H E27 70W  | Core LED HPL 26W | MV | ○ |
|                | Core LED HPL 36W | MV | × |
|                | LED HPL 28W      | MV | ○ |
|                | LED HPL 42W      | MV | × |
| SON-H E40 100W | Core LED HPL 36W | MV | ○ |
|                | LED HPL 42W      | MV | ○ |
| MH E40 250W    |                  |    |   |
| MH E40 400W    |                  |    |   |

[illegible]

| Wattage:              |                   | TrueForce |   |  |  |  |             |    |   |
|-----------------------|-------------------|-----------|---|--|--|--|-------------|----|---|
| SON-T PIA<br>E27 50W  | Core LED Road 17W | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 25W      | MV        | × |  |  |  |             |    |   |
| SON-T PIA<br>E27 70W  | Core LED Road 26W | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 35W      | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 25W      | MV        | ○ |  |  |  |             |    |   |
| SON-T PIA<br>E40 100W | Core LED Road 40W | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 55W      | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 68W      | MV        | × |  |  |  |             |    |   |
| SON-T PIA<br>E40 150W | LED Road 68W      | MV        | ○ |  |  |  |             |    |   |
| SON-T<br>E27 70W      | Core LED Road 26W | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 35W      | MV        | × |  |  |  |             |    |   |
| SON-T<br>E40 100W     | Core LED Road 40W | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 55W      | MV        | × |  |  |  |             |    |   |
| SON-T E40<br>150W     | LED Road 68W      | MV        | ○ |  |  |  |             |    |   |
| CDO<br>E27 50W        | Core LED Road 26W | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 25W      | MV        | ○ |  |  |  |             |    |   |
| CDO E27 70W           | LED Road 35W      | MV        | ○ |  |  |  |             |    |   |
| CDO<br>E40 100W       | LED Road 55W      | MV        | ○ |  |  |  |             |    |   |
|                       | LED Road 68W      | MV        | × |  |  |  |             |    |   |
| CDO E40 150W          | LED Road 68W      | MV        | ○ |  |  |  |             |    |   |
| SOX<br>B22 35W / 26W  |                   |           |   |  |  |  | LED SOX 18W | MV | × |
| SOX<br>B22 55W / 36W  |                   |           |   |  |  |  | LED SOX 28W | MV | × |
| SOX<br>B22 55W        |                   |           |   |  |  |  | LED SOX 36W | MV | × |

$\times$  = **True replacement:** initial perceived light effect / lux levels of LED lamp is the same or better than conventional HID

○ = **Average equivalence:** average perceived light effect / lux levels of LED lamp during the life comparable to conventional HID

 **TrueForce Core LED lamps:**  
convenient and cost-effective

**TrueForce LED lamps:**  
top-quality and robust

**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.

**MV = Direct Mains.** Bypass EM ballast for additional energy saving, use direct mains voltage input.