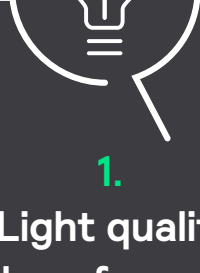




Ever wonder what's better: HID or LED?

Learn more about the benefits of efficient LED lighting and find our Philips product recommendations for an easy switch to LED in industry, retail, urban, and street lighting applications.

Take a closer look at the most important factors:



1. Light quality and performance



2. Efficiency and robustness



3. Cost of ownership

1.



Light quality and performance

HID

- Very limited light spectrum (around 2200K)
- Poor color rendering, usually emitting a yellow light
- Optically inefficient: at least half the light needs to be reflected and redirected
- Not sustainable: lamps have to be replaced approx. every 2 years and require more energy and time to warm up

vs.



LED

- + Very high light quality and a wide range of color temperatures
- + Broad spectrum of CRI for a safer, more pleasant atmosphere
- + Optically efficient: emits light only towards usage direction
- + Instant 100% brightness without start-up delay or flickering
- + Sustainable and future-proof: uses less energy and contains no mercury, making it compliant with the RoHS directive*

HID vs LED

0 : 1

*Restriction of Hazardous Substances, 02/2022

2.



Efficiency and robustness

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 mercury as a gas
- Approximately half the lifetime of LED

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 vs LED

0 : 2

Up to 5 years warranty

3.



Cost of ownership

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 lamp

LED

- A higher initial price, but low total cost of ownership
- Virtually no maintenance needed – low frequency with which bulbs have to be changed out
- Major payback comes from energy efficiency improvements



HID vs LED

0 : 3



~~HID~~ or LED

Our conclusion: Replace outdated HID with outstanding LED

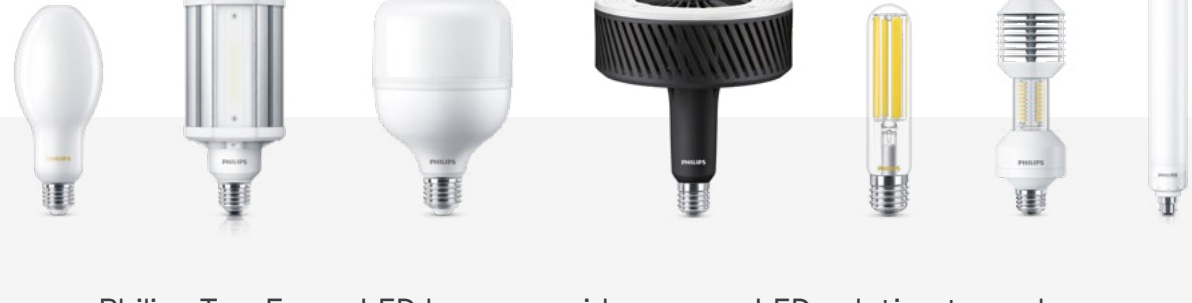
With all the advantages of LED lamps, it's hard to find anything that's not to like. Switching from HID to LED is easy with the Philips TrueForce LED range that offers a direct retrofit alternative for many conventional lamp types – without losing the familiar look and feel.

Switch to LED now!



Switching is easy with the Philips TrueForce LED range

PHILIPS



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

From urban applications, to retail, industry and road lighting – find the right solution for every project on

philips.com/trueforce-led-lamps

Find everything you need to work faster, better, smoother on

signify.com/installers

Signify

Our global brands:

PHILIPS interact