

PHILIPS

Automotive



Discover our **LED** innovations





LED retrofit lighting



Discover a new track

Which LED lamp do you need?

The next level of white light



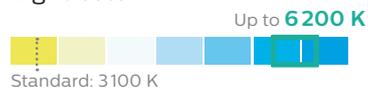
Ultinon LED



Beam performance



Light color



Lifetime



Available in

LED-HL [≈H4], [≈H7]

LED-FOG [≈H8/H11/H16]

Brighter. Whiter. Stronger.



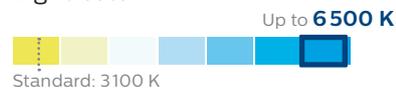
X-tremeUltinon LED



Beam performance



Light color



Lifetime



Available in

LED-HL [≈H4], [≈H7], [≈HB3/HB4], [H1]**, [H11]**, [HIR2]**

LED-FOG [≈H8/H11/H16]

New

Original automotive performance in LED



LUXEON
Atilon
OEM LED

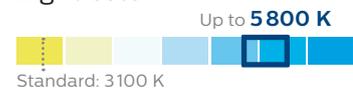
X-tremeUltinon LED gen2



Beam performance



Light color



Lifetime



Available in

LED-HL [≈H4], [≈H7]

LED-FOG [≈H8/H11/H16]

Images for illustration purposes only.

* Compared to the minimum legal standard for halogen bulbs

** Coming soon



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.

Which LED for which function?



Headlights



Front position/
parking lights



Front fog lights



Front indicators



Dashboard lights



Interior lights



X-tremeUltinon LED – Original automotive performance in LED

| | | | | | | | | |
|---------------------------|--------------------------------------|--|------------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <p>LED-HL [≈H4] 5800K</p> | <p>LED-HL [≈HB3/HB4] 6500K</p> | <p>LED-T10 [≈W5W] 6000K</p> | <p>LED-FOG [≈H8/H11/H16] 5800K</p> | <p>LED-AMBER [≈PY21W] CAN bus* AMBER</p> | <p>LED-T10 [≈W5W] 4000K</p> | <p>LED-T10 [≈W5W] 6000K</p> | <p>LED-T10 [≈W5W] 4000K</p> | <p>LED-T10 [≈W5W] 6000K</p> |
| <p>LED-HL [≈H7] 5800K</p> | <p>LED-T20-WHITE [≈W21/5W] WHITE</p> | <p>LED-AMBER [≈WY21W] CAN bus* AMBER</p> | <p>LED-Fest 30/38/43 mm 4000K</p> | <p>LED-Fest 30/38/43 mm 6000K</p> | <p>LED-Fest 30/38/43 mm 4000K</p> | <p>LED-Fest 30/38/43 mm 6000K</p> | <p>LED-Fest 30/38/43 mm 4000K</p> | <p>LED-Fest 30/38/43 mm 6000K</p> |

Ultinon LED – The next level of white light

| | | | | | | | |
|---------------------------|--|------------------------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <p>LED-HL [≈H4] 6200K</p> | <p>LED-T10 [≈W5W] 6000K</p> | <p>LED-FOG [≈H8/H11/H16] 6200K</p> | <p>LED-AMBER [≈PY21W] CAN bus* AMBER</p> | <p>LED-T10 [≈W5W] 4000K</p> | <p>LED-T10 [≈W5W] 6000K</p> | <p>LED-T10 [≈W5W] 4000K</p> | <p>LED-T10 [≈W5W] 6000K</p> |
| <p>LED-HL [≈H7] 6200K</p> | <p>LED-AMBER [≈WY21W] CAN bus* AMBER</p> | <p>LED-Fest 30/38/43 mm 6000K</p> | <p>LED-Fest 30/38/43 mm 6000K</p> | <p>LED-Fest 30/38/43 mm 4000K</p> | <p>LED-Fest 30/38/43 mm 6000K</p> | <p>LED-Fest 30/38/43 mm 4000K</p> | <p>LED-Fest 30/38/43 mm 6000K</p> |

CANbus adapter for optimal control

| | | | | | | |
|----------------------------|----------------------------|------------------|-------------------------------------|-------------------------|------------------|------------------|
| <p>CANbus LED-HL [≈H4]</p> | <p>CANbus LED-HL [≈H7]</p> | <p>CANbus 5W</p> | <p>CANbus LED-FOG [≈H8/H11/H16]</p> | <p>Smart CANbus 21W</p> | <p>CANbus 5W</p> | <p>CANbus 5W</p> |
|----------------------------|----------------------------|------------------|-------------------------------------|-------------------------|------------------|------------------|



| | | | | | | | | |
|--------------------------|------------------------------|-----------------|-----------------|--------------|----------------------|----------------|-------------|-----------------|
| | | | | | | | | |
| Glove compartment lights | Rear position/parking lights | Rear indicators | Rear fog lights | Trunk lights | License plate lights | 3rd stop light | Stop lights | Reversing light |

X-tremeUltinon LED – Original automotive performance in LED

| | | | | | | | | |
|--------------------------|--|------------------------|-------------------------|--------------------------|--------------------------|-------------------------|------------------------------------|--|
| LED-T10 [≈W5W] | LED-T10 [≈W5W] | LED-AMBER [≈PY21W] | LED-RED [≈P21W] | LED-T10 [≈W5W] | LED-T10 [≈W5W] | LED-RED [≈P21W] | LED-RED [≈P21W], [≈P21/5W] | LED-WHITE [≈P21W] |
| LED-Fest 30/38/43 mm | LED-(T20-)RED [≈P21/5W], [≈W21/5W] | LED-AMBER [≈WY21W] | LED-T20-RED [≈W21W] | LED-Fest 30/38/43 mm | LED-Fest 30/38/43 mm | LED-T20-RED [≈W21W] | LED-T20-RED [≈W21W], [≈W21/5W] | LED-T16-, T20-WHITE [≈W16W], [≈W21W] |

Ultinon LED – The next level of white light

| | | | | | | | | |
|--------------------------|---------------------------|------------------------|-------------------------|--------------------------|--------------------------|-------------------------|------------------------------------|---------------------------|
| LED-T10 [≈W5W] | LED-RED [≈P21/5W] | LED-AMBER [≈PY21W] | LED-RED [≈P21W] | LED-T10 [≈W5W] | LED-T10 [≈W5W] | LED-RED [≈P21W] | LED-RED [≈P21W], [≈P21/5W] | LED-WHITE [≈P21W] |
| LED-Fest 30/38/43 mm | LED-T20-RED [≈W21/5W] | LED-AMBER [≈WY21W] | LED-T20-RED [≈W21W] | LED-Fest 30/38/43 mm | LED-Fest 30/38/43 mm | LED-T20-RED [≈W21W] | LED-T20-RED [≈W21W], [≈W21/5W] | LED-T20-WHITE [≈W21W] |

CANbus adapter for optimal control

| | | | | | | | | |
|-----------|-----------|------------------|------------|-----------|-----------|------------|------------|------------|
| | | | | | | | | |
| CANbus 5W | CANbus 5W | Smart CANbus 21W | CANbus 21W | CANbus 5W | CANbus 5W | CANbus 21W | CANbus 21W | CANbus 21W |

*LED CANbus adapter 21W included in the pack



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.

The exciting new Philips X-tremeUltinon LED gen2 range performs at automotive OEM level.



X-tremeUltinon LED gen2

Original automotive performance in LED



IP65

Dust tight and water resistant



EMI proof

Resistant to **electromagnetic interference**



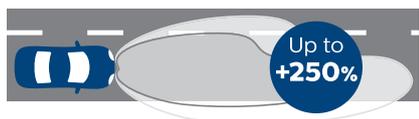
UV block

No UV emission, hence not harmful to headlight units

Original automotive performance

The exciting new Philips X-tremeUltinon LED gen2 range pushes the boundaries of light once again, performing at automotive OEM level. Equipped with exclusive Lumileds LUXEON Altilon LED chips, otherwise only available to carmakers, these lights have optimized consistency, performance up to +250% brighter and a cool white light color to provide sharper visibility.

Best performance with up to +250% brighter light*



With an intense bright beam providing uniform light distribution, Philips X-tremeUltinon LED gen2 headlamps improve visibility and enhance contrast, giving drivers up to +250% brighter light*. That means more time to react to events in front of them. Put simply, drivers get an optimal spectrum for superior visibility and better anticipation. Philips X-tremeUltinon LED gen2 bulbs make the driving experience more enjoyable due to their superior beam performance.

Standard halogen



Philips X-tremeUltinon LED gen2



Light color

The new color temperature of up to **5800 Kelvin cool white** conforms to **OEM standards** by meeting Automotive LED ECE and SAE color specifications, optimized for **visibility and comfort**. Drivers enjoy an instant style upgrade with a crisp, cool white and modern high-end look.



Up to **5800 K** – the OEM reference
X-tremeUltinon LED gen2



Images and graphs for illustration purposes only.

* Compared to the minimum legal standard for halogen bulbs



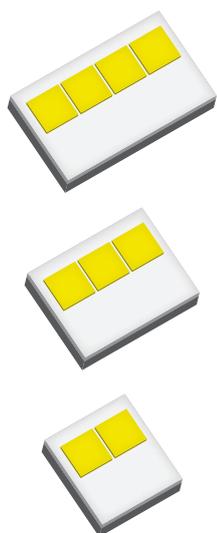
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Powered by LUXEON Altilon SMD LEDs (Surface Mounted Device)

Philips X-tremeUltinon LED gen2 headlight bulbs feature Lumileds LUXEON Altilon SMD chips. **Specifically developed for OEM front lighting** (low beam, high beam, fog and curved lighting), LUXEON Altilon SMD LEDs provide **long lifetime and high reliability** that have been proven under stringent automotive testing conditions.



Projecting a wider angle and perfectly positioned light, these headlight bulbs prevent glare and produce a **superior cut-off line**. With higher electrical current capability, they offer increased flux performance. Thanks to their optimal hot lumen ratio, the Philips X-tremeUltinon gen2 lights feature longer-term stability as well as improved thermal resistance and low power consumption. They also provide a **superior homogeneity in color and beam intensity**.



LED headlight from the market



Philips SafeBeam technology



Superior lifetime

Thanks to their **innovative heat-management technology**, Philips X-tremeUltinon LED gen2 headlights have a remarkable lifetime of up to **12 years**. We also provide a 5-year warranty. As most cars are replaced or upgraded within that time, these lights should last the lifetime of your vehicle.



State-of-the-art LED technology for smarter light

The unique LUXEON Altilon LED chips provide **industry-leading thermal performance** so they can operate effectively at higher temperatures. At the same time, LED lights generate heat that needs controlling.



Passive cooling system with constant air flow, used in Philips X-tremeUltinon LED-HL [≈H4] and LED-FOG [≈H8/H11/H16].

The unique **Philips AirFlux** and **AirCool** technologies are smart heat-management systems that direct heat away from the light's critical components, preventing damage.

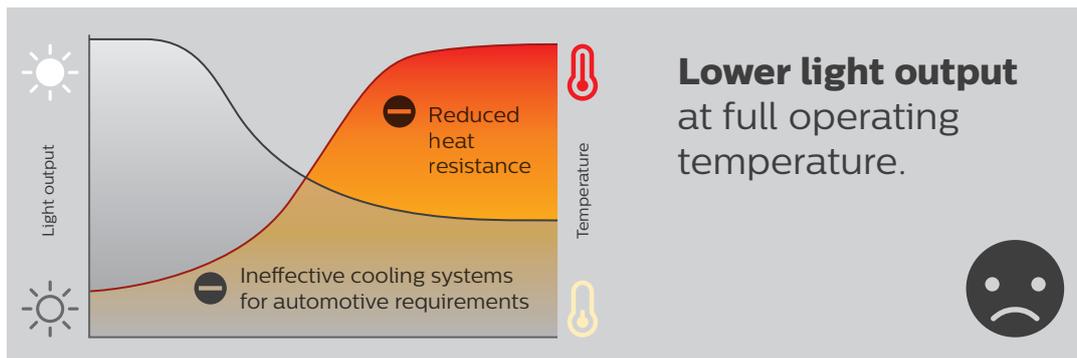


Active fan-based cooling system, used in Philips X-tremeUltinon LED-HL [≈H7].

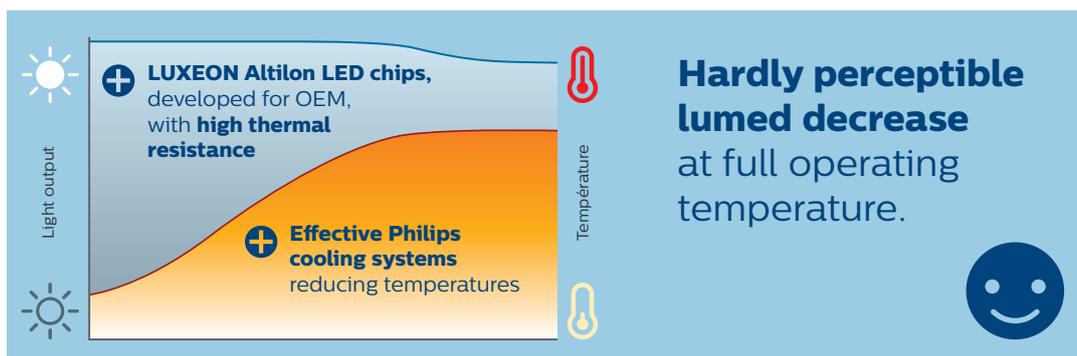
Hot lumen

Both the LED thermal resistance and heat-management systems allow for a **stable hot lumen**. Hot lumen refers to the light output of an LED when it is at its highest temperature. As temperature rises, the brightness of competitor headlight bulbs tends to decrease significantly while the difference in Philips X-tremeUltinon gen2 is hardly perceptible.

LED headlight from the market



Philips LED headlight



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.

X-tremeUltinon LED gen2



LED-HL
[≈H4]

5800 K



LED-HL
[≈H7]

5800 K



LED-FOG
[≈H8/H11/H16]

5800 K



LED-WHITE
[≈P21W]

WHITE



LED-T20-WHITE
[≈W21W]

WHITE



LED-T20-WHITE
[≈W21/5W]

WHITE



LED-T16-WHITE
[≈W16W]

WHITE



LED-RED
[≈P21W]

RED



LED-RED
[≈P21/5W]

RED



LED-RED
[≈W21W]

RED



LED-RED
[≈W21/5W]

RED



LED-AMBER
[≈PY21W]

AMBER



LED-AMBER
[≈WY21W]

AMBER

Ordering information

| Product | EAN1 | EAN3 | GOC | Order entry | MOQ |
|---|---------------|---------------|----------|-------------|-----|
| X-tremeUltinon LED gen2 headlighting | | | | | |
|  X-tremeUltinon LED gen2 LED-HL [≈H4] | 8719018060129 | 8719018060136 | 06012931 | 11342XUWX2 | 6 |
|  X-tremeUltinon LED gen2 LED-HL [≈H7] | 8719018060143 | 8719018060150 | 06014331 | 11972XUWX2 | 6 |
|  X-tremeUltinon LED gen2 LED-FOG [≈H8/H11/H16] | 8719018060167 | 8719018060174 | 06016731 | 11366XUWX2 | 6 |
| X-tremeUltinon LED gen2 signaling | | | | | |
|  X-tremeUltinon LED gen2 LED-WHITE [≈P21W] | 8719018051455 | 8719018051486 | 05145530 | 11498XUWX2 | 10 |
|  X-tremeUltinon LED gen2 LED-T20-WHITE [≈W21W] | 8719018051462 | 8719018051479 | 05146230 | 11065XUWX2 | 10 |
|  X-tremeUltinon LED gen2 LED-T20-WHITE [≈W21/5W] | 8719018051493 | 8719018051509 | 05149330 | 11066XUWX2 | 10 |
|  X-tremeUltinon LED gen2 LED-T16-WHITE [≈W16W] | 8719018051844 | 8719018051851 | 05184430 | 11067XUWX2 | 10 |
|  X-tremeUltinon LED gen2 LED-RED [≈P21W] | 8719018051578 | 8719018051585 | 05157830 | 11498XURX2 | 10 |
|  X-tremeUltinon LED gen2 LED-RED [≈P21/5W] | 8719018051516 | 8719018051523 | 05151630 | 11499XURX2 | 10 |
|  X-tremeUltinon LED gen2 LED-T20-RED [≈W21W] | 8719018051530 | 8719018051547 | 05153030 | 11065XURX2 | 10 |
|  X-tremeUltinon LED gen2 LED-T20-RED [≈W21/5W] | 8719018051554 | 8719018051561 | 05155430 | 11066XURX2 | 10 |
|  X-tremeUltinon LED gen2 LED-AMBER [≈PY21W] | 8719018051592 | 8719018051608 | 05159230 | 11498XUAXM | 10 |
|  X-tremeUltinon LED gen2 LED-AMBER [≈WY21W] | 8719018051615 | 8719018051622 | 05161530 | 11065XUAXM | 10 |

Installing LED retrofit headlights can get complicated:
Philips connector rings ensure a better fit for your
peace of mind.



Connector rings for LED-HL



A better fit for LED retrofit bulbs

Easy to fit

LED-HL [≈H7] headlights feature a wide variety of lamp brackets, making installation complicated. Philips LED connector rings ensure your bulbs **fit the widest range of car models**, giving you peace of mind and great lighting performance.

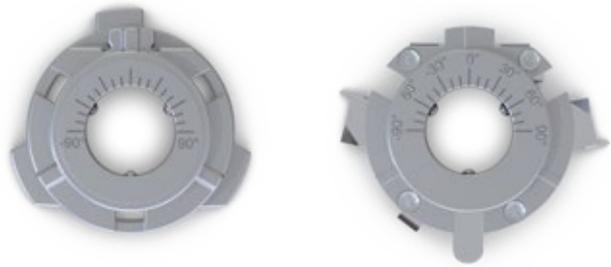
We provide a variety of robust exchangeable Philips connector rings to **improve the fit in most vehicle models and make installation easier**.

Compatible with major car models

To achieve a good fit in a wide range of car models, two model-specific connector rings are available for Philips LED-HL [≈H7].

Easy installation

Both connector ring types have an integrated protractor to make sure that they are installed at the right angle and correctly oriented.



Reliable Philips quality

As optional accessories for **Philips advanced automotive lighting systems**, the type B and C LED connector rings are **top-quality products**. They are made of durable metal, can handle high temperatures and provide **long-lasting performance**. Tested in the toughest conditions, they are proven to withstand physical and thermal stress.

Connector ring type B

Type B is compatible with all Philips LED retrofit ranges.



Connector ring type C

Type C is compatible with Philips Ultinon LED and Philips X-tremeUltinon LED gen2 headlights.



Ordering information

| Product | EAN1 | EAN3 | GOC | Order entry | MOQ |
|-----------------------|---------------|---------------|----------|-------------|-----|
| Connector ring type B | 8719018051219 | 8719018051226 | 05121930 | 11172BX2 | 10 |
| Connector ring type C | 8719018051233 | 8719018051240 | 05123330 | 11172CX2 | 10 |

philips.com/automotiveLED



It is your own responsibility to ensure that the use of the LED retrofit lights complies with applicable local legal requirements.

Some car models present particular challenges for LED-based retrofit lamps. Philips' unique CANbus adapters ensure the vehicle's lighting systems function smoothly.



LED CANbus adapters for LED-HL



Reliable electrical performance

Compatibility assured

Easy to install, these adapters ensure compatibility with your car's electrical systems, **preventing potential problems** with dashboard warnings, flickering headlamps and high-beam indicators*.

Superior electrical performance

The Philips CANbus adapter lets you **ensure the constant performance** of your LED retrofit headlamps and enjoy a **better electrical fit with your car**.

Easy installation

Thanks to its **unique, advanced design**, the Philips CANbus adapter is easy to install and provides superior performance from day one.

Waterproof connectors

Type-specific adapters are **durable** and provide **IP65 protection** from ingress of dust and water.

Optimal performance in all conditions

Philips' CANbus adapters are **designed to handle the demands of daily driving**.

Automotive grade quality

Technologically advanced, Philips lighting is renowned in the automotive industry and has been for over 100 years. Philips Automotive Grade Quality products are designed and developed following **strict quality-control processes** (including applicable ISO norms), leading to consistently high production standards. Major car manufacturers choose Philips lamps, because when you buy Philips products, you buy quality.



Ordering information

| Product | EAN1 | EAN3 | GOC | Order entry | MOQ |
|--|---------------|---------------|----------|-------------|-----|
| CANbus adapter for LED-HL [≈H4] | 8727900398090 | 8727900398106 | 39809030 | 18960C2 | 10 |
| CANbus adapter for LED-HL [≈H7] | 8719018050649 | 8719018050656 | 05064930 | 18952C2 | 10 |
| CANbus adapter for LED-FOG [≈H8/H11/H16] | 8719018050663 | 8719018050670 | 05066330 | 18954C2 | 10 |

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* High beam dashboard indicator is only valid for LED-HL [≈H4]



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