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Audi R8 Spyder V10 – LED headlight with laser spot

37 light-emitting diodes in each of the headlights of the new R8 Spyder produce a bright LED light that can be augmented with the optional Audi laser light. A module with four high-power laser diodes, each of which is just 300 micrometers in diameter, emit a blue laser beam with a wavelength of 450 nanometers. A phosphor converter converts it into white light with a color temperature of 5,500 Kelvin, which is pleasant to the human eye.

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The Audi laser light, which is activated at speeds of 60 km/h (37.3 mph) and above in extra-urban areas, increases the range of the high beam and thus provides the driver with added visibility and safety. An intelligent camerabased sensor system detects other road users and actively adjusts the light pattern to dim the light intensity specifically for them. The presence of the Audi laser light is indicated by the lighted, anodized blue strips dividing the headlights. It is combined with dynamic turn signals up front, which run from the inside out with a cycle time of 400 milliseconds. This feature is standard at the rear.

Status: 10/2016