



Communiqué de presse
Press release

New Valeoscope handbook covers entire lighting systems range

Redditch, UK, 21 January 2016: Valeo Service UK has launched a brand new technical handbook under its Valeoscope programme covering all lighting systems in the automotive aftermarket, as well as including training and technical support on how best to fit them.

Valeoscope's Lighting Systems publication provides excellent, easy to use information and contains helpful hints and product details on all Valeo lighting system ranges, ensuring technicians have access to the most up-to-date material.

As part of its technical collection, the well-known OE business is providing its customers with the useful handbook, exploring the very core and essence of light. *With 40percent of fatal road accidents occurring at night despite only 20percent of journeys taking place during the dark, Valeo is committed to developing quality OE products that are efficient, expertly designed and with low levels of energy consumption, prioritising customer safety at all times.

The 100 page handbook contains 21 sections including information on headlamp beams, halogen lamps, light source positioning and lighting systems servicing. Illustrations and summaries are used to help bring the explanations and various lighting systems to life, making it easier for the reader to engage with the information.

Section five of the document, 'The lighting system: what is light?', provides key lighting information to Valeo customers. From human visual perception, to light sources evolutions, regulations, photometric knowledge and the latest technology from Valeo, customers are able to fully understand how the human eye interacts with light and can therefore make a key judgment on the correct lighting system for specific vehicles.

The new technical document also offers specialist training on how to install each lighting system throughout the various sections, as well as information about lighting technology, from replacement parts to diagnosis and maintenance.

With Valeo's headlamps, rearlamps, foglamps and DRL being 100percent Valeo OE quality, the brand's commitment to fully providing its customers with first-class products is evident.

As a world leader and multi-specialist in visibility and lighting systems, Valeo prides itself on bringing high quality products to the aftermarket, with its product range containing more than 2500 part numbers.



As well as the new technical document, Valeoscope also offers a variety of other handbooks including information on Air Conditioning systems, Clutch Hydraulics and Dual Mass Flywheels, guaranteeing its customers are equipped with the appropriate material to fully understand the products on offer, as well as how best to install them.

The document is also available via SlideShare.

Valeo is an automotive supplier, partner to all automakers worldwide. As a technology company, Valeo proposes innovative products and systems that contribute to the reduction of CO2 emissions and to the development of intuitive driving.

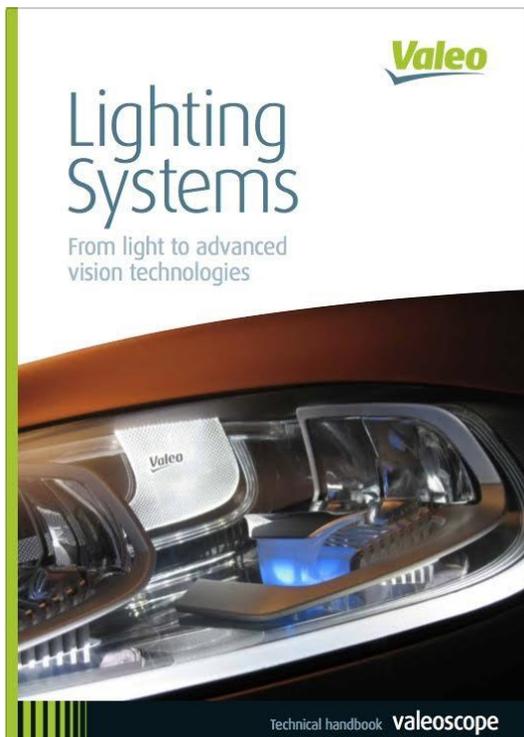
In 2014, the Group generated sales of 12.7 billion euros and invested over 10% of its original equipment sales in research and development. Valeo has 133 plants, 16 research centers, 34 development centers, 15 distribution platforms and employs 78,500 people in 29 countries worldwide.

Valeo is listed on the Paris Stock Exchange and is a member of the CAC 40 index.

References

1. BAST report – ‘Das unfallgeschehen bei Nacht’, (1988)

Picture: Valeoscope Lighting System handbook



7.1. Low beam
Low beams provide a light distribution to give adequate forward and lateral illumination without dazzling the oncoming vehicles.

- **Width:** Ensures proper positioning of the vehicle in the lane, or in case of reduced visibility, keep it between 20 and 30 meters.
- **Cut-off:** where possible, between 50 and 60 meters.
- **Range:** more than 60 meters.

The low beams shall remain switched when the main beams are activated.

7.2. High beam
High beams provide a centre-weighted distribution of light with no control of glare.

- **Combust:** between 50 and 100 m.
- **Max. range:** more than 150 m.

High beam

7.3. Fog light beam
Front fog beams provide a wide, fan-shaped beam of light with a sharp cut-off.

- **Range:** 25 m.

Fog light

7.6. Aiming setup and correction
We must distinguish two types of aiming: the so-called initial aiming and the aiming correction that must be performed according to the vehicle height variation (load, chassis dynamics).

7.6.1. Initial aiming
The initial adjustment (activation) of the cut-off of the dipped beam is when the vehicle is stable with one person on the driver's seat. It is specified within an accuracy of 3 mm with the manufacturer and indicated in a clearly legible and indelible manner on all vehicles and not on the headlights or stamped on the manufacturer's plate using a standard, approved symbol.

Initial aiming mechanism

Initial aiming manual setup

The initial aiming value is indicated on the headlamp. As a general rule, it must be set manually after fitting.

7.6.2. Aiming correction (levelling)
On top of the initial aiming of the low beam, vehicles must also comply with downward reduction of the low beam according to the load on the vehicle. Levelling systems to compensate for load differences can be manual, electric or automatic.

8.2. Introduction to photometric specifications
Photometric specifications set illumination levels required on the road by defining photometric points and zones in the driver's field of view, from left to right at several distances.
The amount of points depends on the light source: Xenon lamps offers a wider beam so more points are required to specify the Xenon headlamps illuminance pattern.
Point or zones are associated to illuminance value (lx/m², or max.) or their intensity (in candela).

7.7. "wet road" class W modes - beam on the road
The "wet road" class W modes of the parking beams shall not operate unless the front fog lamps, if any, are switched ON and one or more of the following conditions are automatically detected:

- The wetness of the road has been detected automatically.
- The windshield wiper is switched ON and its continuous or automatically controlled operation has occurred for a period of at least five minutes.

"wet road" class W modes - H/V aiming

7.50
Positioned at 25 m on the low right side. The value must be near to the maximum illuminance to the eye visual combat point.

7.55
Range point located at 50 m from the projector on the right side.

7.60
Range point located at 50 m of the projector on the vehicle vertical path.

7.510
Located at 50 m on the opposite driver glare opposing glare induction.

7.51 and 7.52
Range located at 25 m from the projector on the far left and right sides.
They are points of an induction on the beam with low side and dimmers.



Useful Links

1. www.valeoservice.com
2. <http://www.valeo-techassist.com>
3. [Slideshow version](#)