

The apparently white light is composed of waves which are perceived as color. Some of these wavelengths have too much energy. Then our eyes are exposed to excessive amounts of radiation daily (18h/day).

On the other hand, the fundus of the human eye, the retina, and especially the macula (the yellow spot), are composed of neurons which has to remain in good condition throughout life to maintain good vision. Most of the information we get about the world around us comes from what we see (85%). One of the main tasks of opticians, optometrists, ophthalmologists and eye care professionals is to optimize vision.

The Complutense University of Madrid (UCM, Spain), along with public and private national and international institutions, has been carried out scientific research at the highest international level for 15 years. As a result, it has been proved that a violet-light absorbing filter can reduce the damage that harmful light might cause in the neurons in the fundus of the eye.

This research, in collaboration with manufacturers of contact lenses, ophthalmic lenses, and maintenance solutions, as well as with producers of protective films, has allowed manufacturers in Spain to create a new product which provides protection against the possible toxic effects of harmful light.

Researchers at the UCM University together with product manufacturers, through university-industry agreements, have been successful in taking action against avoidable blindness and have developed new products in this field.



Celia Sanchez Ramos PhD in Preventive Medicine and Public Health at the University Complutense (UCM) and PhD in Vision Science at the European University. Degree in Pharmacy and Diploma in Optometry. She teaches Visual Perception, Physiological Optics and Optical Technology at UCM since 1986. She is the founder of the Laboratory of Neuro-Computation and Neuro-Robotics. For 26 years leading projects institutional and private, national and international research. His research focuses on the field of neurodegeneration,

prevention and protection of the visual system and visual signal processing. She developed an optical filter selective absorbing (yellow) and their incorporation into contact lenses for vision protection. The CSR seal is a guarantee that the product meets the requirements necessary to perform the dual function of compensating ametropias and protect the visual system. The CSR products are only tested and endorsed and certified for use with the optical filter (yellow). The CSR quality assurance label is approved and certified by the University Complutense (Dra. Celia Sanchez-Ramos) products.

Lens55 UV CSR

Manufactured from material bestselling in the world, now improved with a yellow optical filter absorbing short-wavelength light, which protects against toxic light. Artificial replica absorbing short wavelength light, the natural protection of the lens. Perfect vision and real protection.



A U R A con alantoina y ácido hialurónico

Maintenance only solution certified for use CSR market with yellow contact lenses, protective filter with CSR.

It supports all types of soft contact lenses, including silicone hydrogel lens. Contains Sodium Hyaluronate, a natural biological component, lubricant, moisturizer and comforting, also present in the human body. It contains allantoin, a natural compound known for its anti-irritant properties.

AVIZOR EYE CARE SOLUTIONS

It provides lasting comfort in the continued use of contact lenses.

THE FIRST CONTACT LENS OFFERING PROTECTION FROM HARMFUL LIGHT

- It reduces phototoxic effects
- It prevents from macular degeneration

Lens55 UV CSR

A contact lens with a yellow optical filter that reduces the effects of harmful light and prevents from macular degeneration

A U R A with alantoina and hyaluronic acid

The only contact lens solution certified for the maintenance and cleaning of contact lenses with yellow filter



Pedidos de solución única AURA:



T. +34 91 656 45 15
E. avizor@avizor.es
www.avizor.es

Pedidos de Lentes Lens55 UV CSR:



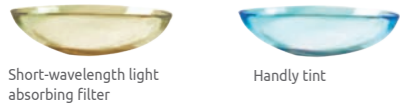
teléfono: 902 238 777
email: pedidos@servilens.com
www.servilens.com



Light, so essential for the visual process, can damage our eyes

White light is composed of all wavelengths of the visible spectrum. Each of these waves has a different energy. The higher the energy, the higher the phototoxic effect on the ocular structures.

The most energetic and harmful waves are the short wavelengths (blue and violet), which make 23% of white light.



Comparison of contact lenses filters

Material	Properties	Refractive Index	Water content	Oxygen Permeability
Filcon IV 1	84.2%UVA- 97.6% UVB - > 5% Blue light	1.3974 (wet)	55%	19.5DK

Diameter (mm)	Base Curve (mm)	Center Thickness (mm)	Power(D)	Color
14.20	8.60; 8.90	0.08-0.10	Lens 55 CSR +20.00 to --20.00 Lens 55 Toric CSR Cyl -5.25 axis 5°	yellow Tinted



23%

of the light that surrounds us can damage our eyes

The yellow optical filter absorbs violet and blue light

Current technology increases blue and violet toxic light

Have you ever thought how much time you spend staring at screens (in front of the computer, using the smartphone, reading on a tablet, and watching TV)?

We cannot avoid using new technologies but we have to protect our eyes from harmful effects because they are cumulative with natural and artificial light around us.



The screens of the new smartphones, tablets, computers, laptops, and televisions are illuminated by LEDs. Some LED screens emit more harmful blue and violet light.

The natural protective mechanism of the eye against the harmful light is the progressive yellowing of the crystalline so that it absorbs part of this blue light. We now can enhance this natural defense with a yellow optical filter in the contact lens.

Our Visual System react to violet and blue light

- 1 The crystalline becomes more and more yellow due to the gathering of yellow chromophores which absorb violet and blue light
- 2 The yellow macular pigment, mainly composed of lutein and zeaxanthin, covers and protects the macula from violet and blue light
- 3 No blue-sensitive photoreceptors in the most perfect area of the retina



Yellowing of the lens with the passage of time *
* Lerman, 1980

For these reasons we must protect our eyes with the CSR contact lenses, which absorb the harmful light around us.

