

**PhysIOL**

ADVANCED OPTICAL SOLUTIONS



[FAR]



[INTERMEDIATE]



[NEAR]

# FINE TECHNOLOGY

by PhysIOL

Innovative trifocal  
technology

When  
freedom  
becomes  
reality

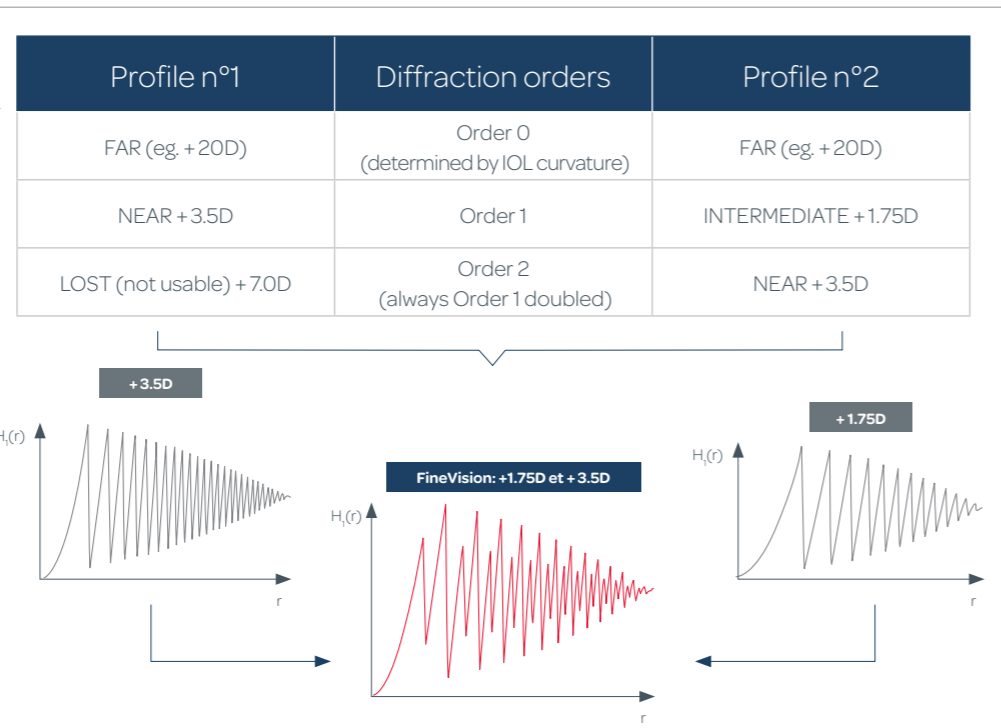
### The first and original patented diffractive trifocal optic

#### Combination of 2 profiles

The combination of two profiles\* offers the patient an intermediate vision without impairing near and distance visual acuities.

This concept was designed in order to reduce the loss of light energy that any diffractive system causes.

\* Patented in Belgium: BE1019161 (A5), Europe: EP2503962 (B1), International: WO2011092169 (A1), United States of America: US 8,636,796 (B2), China: ZL201180002694.7, Japan: 5480980, Australia: 2011209315, Hong-Kong: 2503962



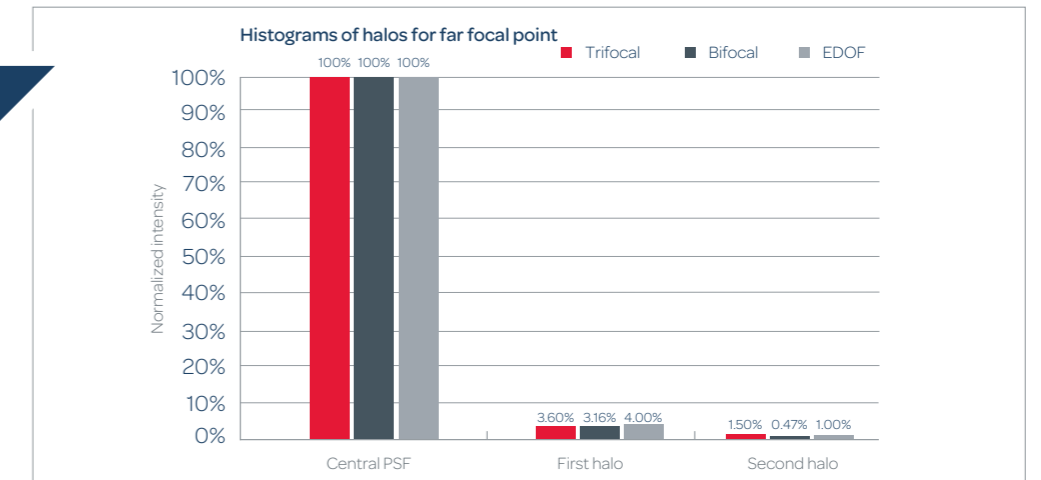
#### What do studies say?

"The second order of profile n° 2 reinforces order 1 of profile n° 1. This gain of energy provides more than 86% of useful light energy depending on the pupil aperture."

Reference:  
Data on file with PhysiOL.

#### Convolution and Apodization benefits

Convolution reduces and limits photopic phenomena.

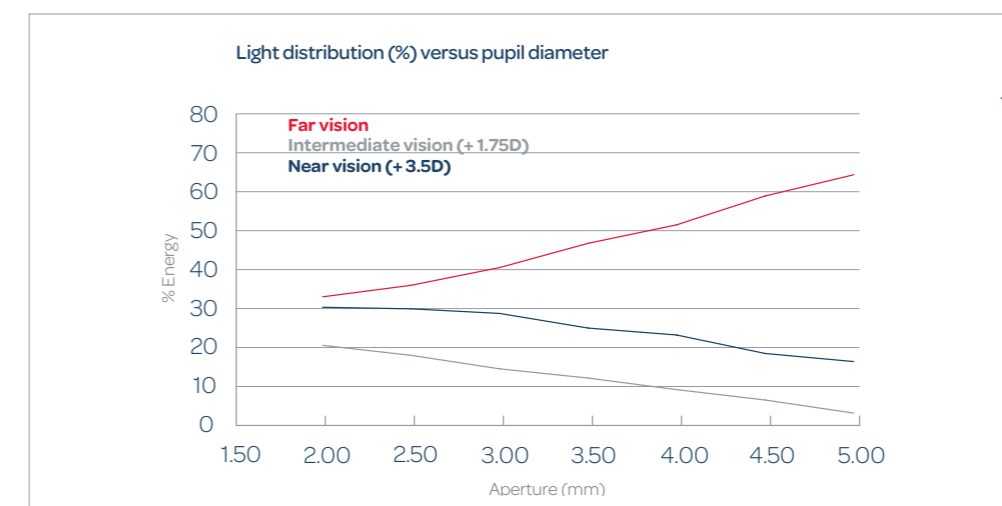


#### What do studies say?

"The PSFs (Point of Spread Function) data show similar halos intensity for FINE technology and EDOF IOL."

Reference:  
Data on file with PhysiOL.

Apodization optimizes the percentage of energy for far vision with the opening of the pupil.



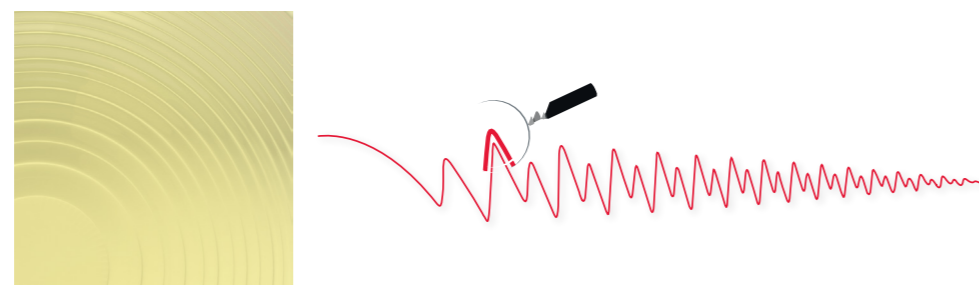
#### What do studies say?

"To match the eye's natural reflex, the percentage of energy allocated to the far vision increases with the opening of the pupil."

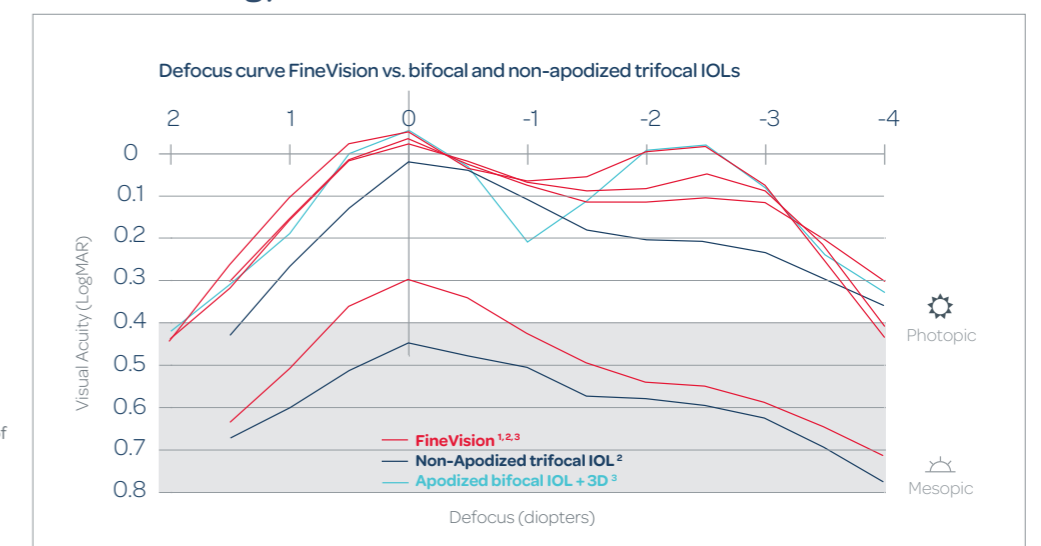
Reference:  
D. Gatineau, et al.: Design and qualification of a diffractive trifocal optical profile for intraocular lenses, JCRS 2011; 37 : 2060-2067.

#### Combination of 2 technologies

The FINE technology is the first and only optic that combines both **Convolution** and **Apodization** technologies on the entire optic surface.



#### FINE technology: best visual acuities at all distances













References:

1. B. Cochener, MD, PhD et al.: Clinical outcomes with a trifocal intraocular lens: a multicenter study, JRS 2014; 30 (11): 62-768.
2. J. M. Martínez de la Casa, SEO 2014: Análisis de la calidad visual tras implantación de lentes intraoculares difractivas trifocales.
3. Soraya M.R. Jonker, MD et al.: Comparison of a trifocal intraocular lens with a D3.0 D bifocal IOL: Results of a prospective randomized clinical trial, J Cataract Refract Surg 2015; 41:1631-1640.

# PhysIOL FINE solutions

 <p><b>FINEVISION TRIUMF</b> EDOF TRIFOCAL OPTIC</p> <p>G-FREE</p>	 <p><b>FINEVISION HP</b> TRIFOCAL OPTIC</p> <p>G-FREE</p>
<p>FineVision Triumf (Pod L GF): G-free® hydrophobic trifocal diffractive optic Chromatic aberration-free Double C-loop platform &amp; RidgeTech® Non-preloaded injection system 10D to 35D power Additional power: Elongated depth of focus energy with +1.75D &amp; +3.50D addition</p> 	<p>FineVision HP (Pod F GF): G-free® hydrophobic trifocal diffractive optic Double C-loop platform &amp; RidgeTech® Non-preloaded injection system 10D to 35D power Additional power: +1.75D for intermediate vision and +3.50D for near vision</p> 
 <p><b>FINEVISION</b> TRIFOCAL OPTIC</p>	 <p><b>FINEVISION</b> TRIFOCAL OPTIC</p> <p>TORIC</p>
<p>FineVision (Micro F &amp; Pod F): Trifocal hydrophilic diffractive optic Non-preloaded injection system Micro F: 10D to 35D power Pod F: 6D to 35D power Additional power: +1.75D for intermediate vision and +3.50D for near vision</p> 	<p>FineVision Toric (Pod FT): Trifocal hydrophilic diffractive optic Non-preloaded injection system 6D to 35D power &amp; 1D to 6D cylinder power (IOL plane) Additional power: +1.75D for intermediate vision and +3.50D for near vision</p> 

## Other PhysIOL advanced optical solutions

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Note: The PhysIOL intraocular lenses are not FDA approved.



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