



# SHEDDING LIGHT ON PUPIL SIZE

A STUDY INVESTIGATED HOW DIFFERENT FACTORS IMPACTED PUPIL SIZE<sup>1</sup>:

## AMETROPIA<sup>1</sup>

They compared the pupil sizes of myopes, hyperopes and emmetropes

## AGE<sup>1</sup>

There was a comparison of pupil sizes for pre-presbyopes, presbyopes and established presbyopes

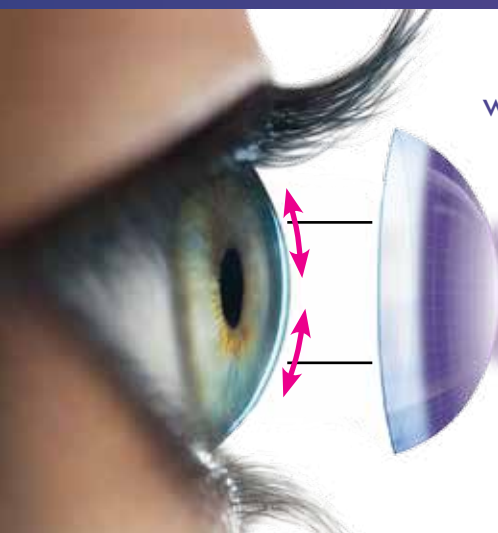
## LUMINANCE<sup>1</sup>

They also compared pupil size in light conditions replicating night time driving ( $2.5\text{cd/m}^2$ ) and outdoor daylight ( $250\text{cd/m}^2$ ).

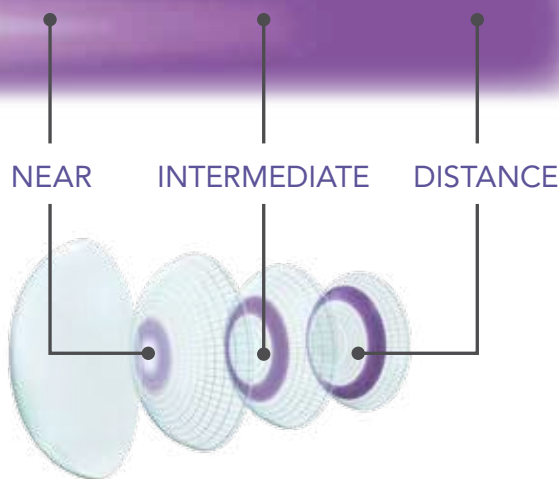
## KEY FINDINGS

- The impact of age is already 2 times greater than the impact of ametropia (0.3 mm difference between myopes and hyperopes).<sup>1</sup>
- The impact of luminance showed 2.6mm difference in pupil size (  $2.5\text{cd/m}^2$  compared to  $250\text{cd/m}^2$ ) which is **4 times greater** than the impact of age at 0.9mm difference (average between 18 and 55+).<sup>1</sup>
- This study confirms that the most influential factor in dictating pupil size is luminance rather than age or ametropia<sup>1</sup>.

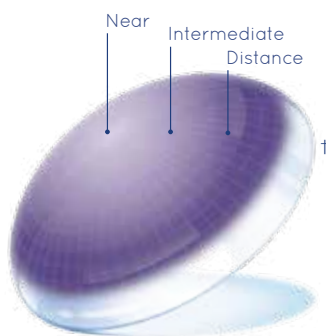
# SHEDDING LIGHT ON PRECISION PROFILE™ DESIGN



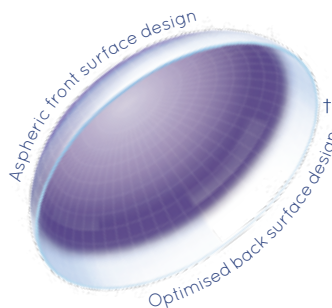
THE PRECISION PROFILE™ DESIGN works synergistically with the eye's natural pupillary function



SMOOTH PROGRESSION OF POWER FOR CLEAR, UNINTERRUPTED VISION FROM NEAR TO INTERMEDIATE TO DISTANCE<sup>†</sup>



- Smooth progression from centre-near, to intermediate, and distance



- Enhances image quality and optimises fit

+6.00D TO -10.00D IN 0.25 STEPS IN ALL 3 ADDS

OVER **96%** FIT SUCCESS – MORE EFFICIENT CHAIR TIME<sup>3\*</sup>



<sup>†</sup> Images are for illustrative purposes and are not exact representations

\* With 2 lenses or fewer per eye, based on DAILIES® AquaComfort PLUS® Multifocal and AIR OPTIX® AQUA MULTIFOCAL contact lenses

References: 1. Guillon et al. The Effects of Age, Refractive Status, and Luminance on Pupil Size. *Optom & Vis Sci*, Vol. 93, No. 9, September 2016.  
 2. Alcon data on file, 2013. 3. Alcon data on file, 2011. See instructions for use for complete wear, care, and safety information  
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