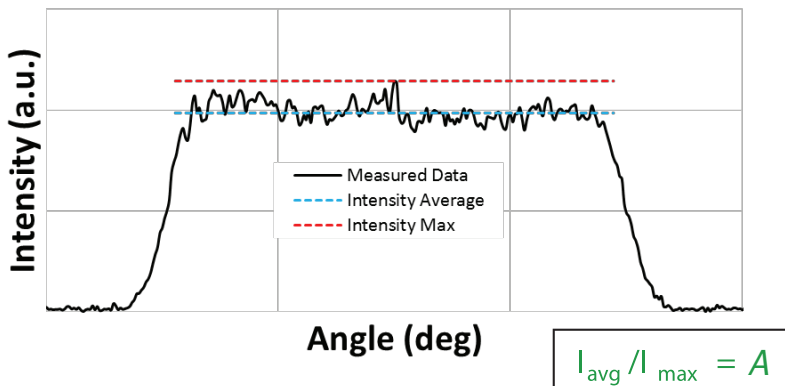
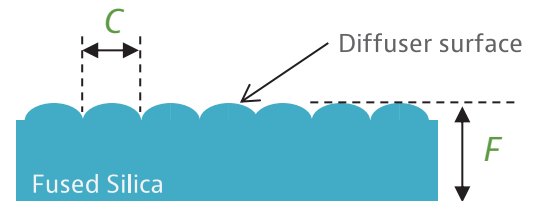
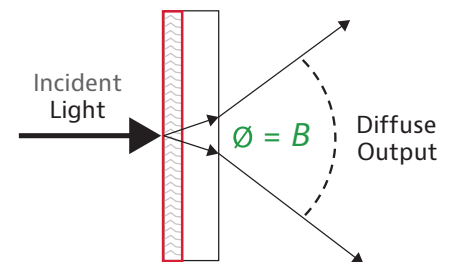
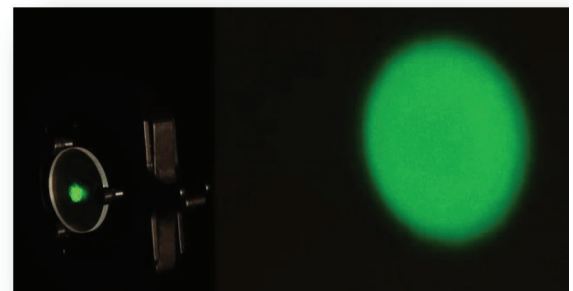


# VIAVI

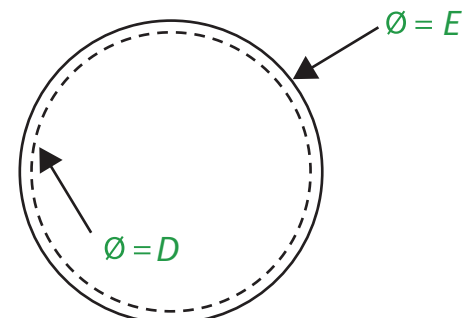
## EDC-0.5-G-1R

EDC-G Series Etched Fused Silica Engineered Diffusers™

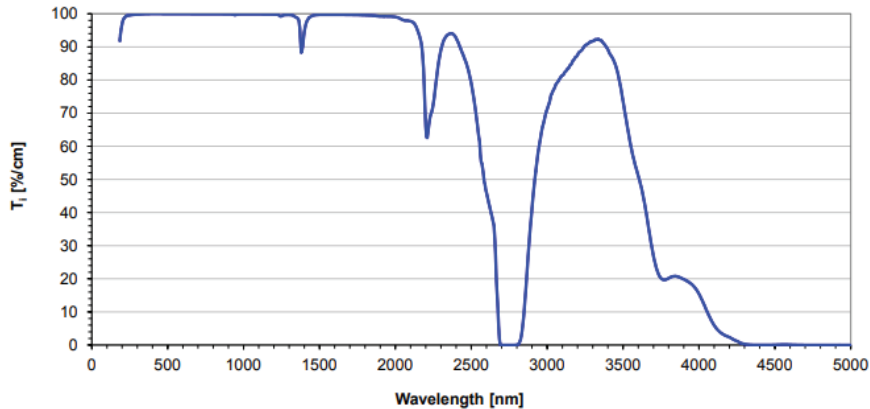
Optical Properties	
Diffuser type	Refractive, bandlimited
Diffuser pattern	Circle, Flat Top
Flatness factor ( <i>A</i> )	$\geq 0.70$
Divergence angle ( <i>B</i> )	$0.50^\circ \pm 0.05^\circ$ FWHM
Transmission spectrum	See next page
Operating spectrum	193 – 2000 nm
Index of refraction	1.457 @ 633 nm
Diffuser feature size ( <i>C</i> )	100 $\mu\text{m}$ (typical)
Clear aperture ( <i>D</i> )	Center 23.4 mm
Efficiency	90% (uncoated)
AR Coating	Uncoated
Mechanical Properties	
Material	Corning 7980 HPFS
Diameter ( <i>E</i> )	25.4 $\pm 0.1$ mm dia.
Thickness ( <i>F</i> )	1.0 mm $\pm 0.1$ mm
Mount	Unmounted



Example data. Actual intensity profile may differ.  
See ISO 13694:2000, section 3.2.9.



## Transmission Spectrum



- Diffuser angles measured in the far-field @ 633 nm. Input beam size ~5 mm, detector subtense 0.25°. Actual angles may vary depending on wavelength or degree of collimation.
- For best uniformity, input beam should be many times larger than diffuser feature size.
- When used with coherent sources the diffuser produces speckle.
- Handle with gloves by edges and avoid touching diffuser surface. Blow with air/N<sub>2</sub> to clean. The plano side may be cleaned by wiping with an alcohol wipe.
- Edges are “fire polished” quality.
- Information subject to change without notice.

