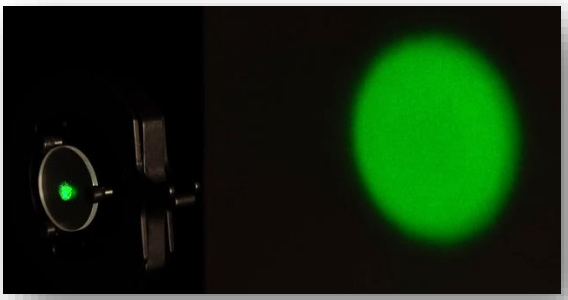
海纳光学有限公司
HIGHLIGHT OPTICS CO., LTD.

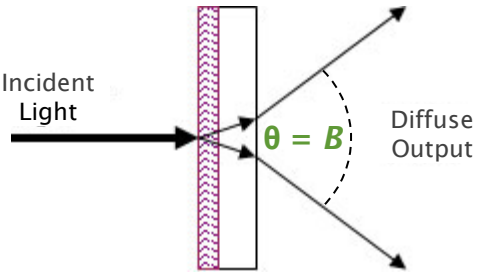
石英工程散射片

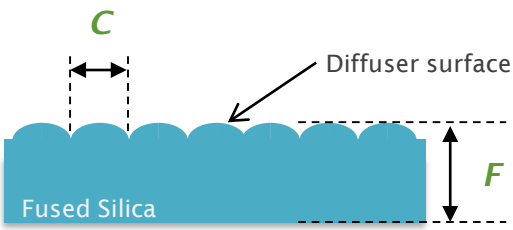
GDF Series: Fact Sheet

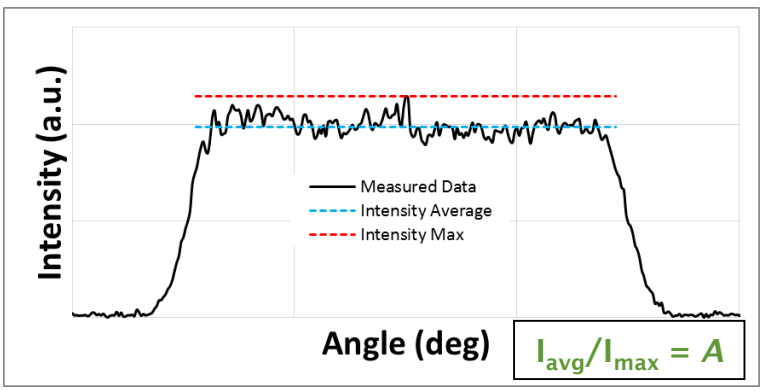
Model: GDF-C0.5

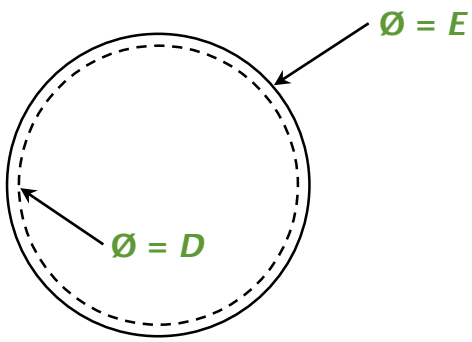
Optical Properties	
Diffuser type	Refractive, bandlimited
Diffuser pattern	Circle, Flat Top*
*Flatness factor (A)	≥ 0.70
Divergence angle (*B*)	0.50° ± 0.05° FWHM
Transmission spectrum	See Notes
Operating spectrum	193 – 2000 nm
Index of refraction	1.457 @ 633 nm
Diffuser feature size (*C*)	100 µm (typical)
Clear aperture (*D*)	Center 23.4 mm
Efficiency	90% (uncoated)
AR Coating	Uncoated
Mechanical Properties	
Material	Corning 7980 HPFS
Diameter (*E*)	25.4 ± 0.1 mm dia.
Thickness (*F*)	1.0 mm ± 0.1 mm
Mount	Unmounted











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

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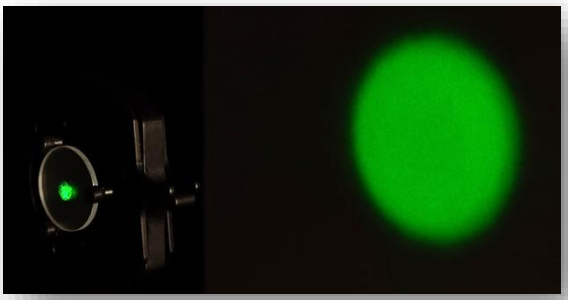
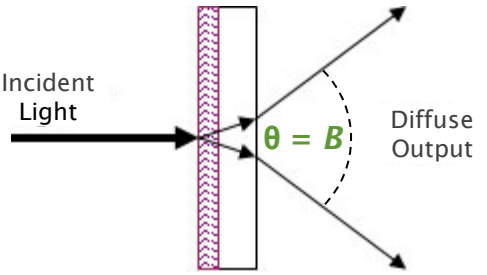
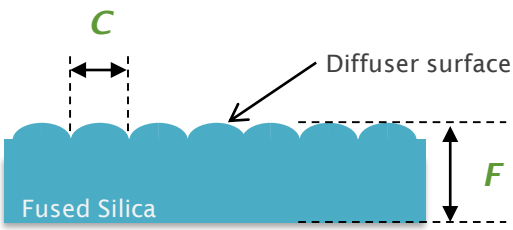
GDF Series: Fact Sheet

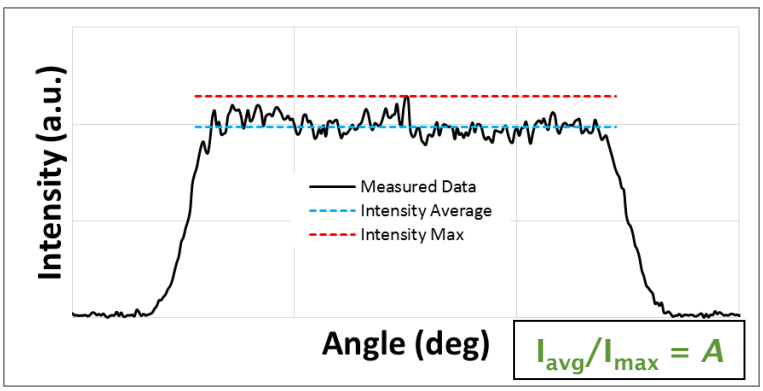
Model: GDF-C1

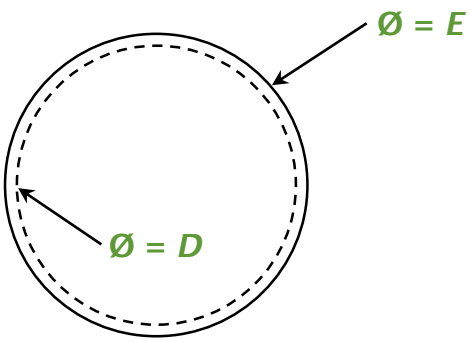
Optical Properties	
Diffuser type	Refractive, bandlimited
Diffuser pattern	Circle, Flat Top*
*Flatness factor (A)	≥ 0.70
Divergence angle (*B*)	1.0° ± 0.1° FWHM
Transmission spectrum	See Notes
Operating spectrum	193 – 2000 nm
Index of refraction	1.457 @ 633 nm
Diffuser feature size (*C*)	100 µm (typical)
Clear aperture (*D*)	Center 23.4 mm
Efficiency	90% (uncoated)
AR Coating	Uncoated
Mechanical Properties	
Material	Corning 7980 HPFS
Diameter (*E*)	25.4 ± 0.1 mm dia.
Thickness (*F*)	1.0 mm ± 0.1 mm
Mount	Unmounted











Example data. Actual intensity profile may differ.
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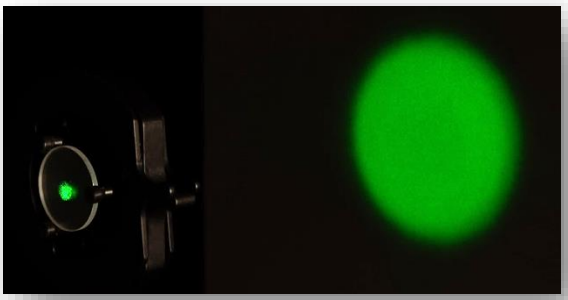
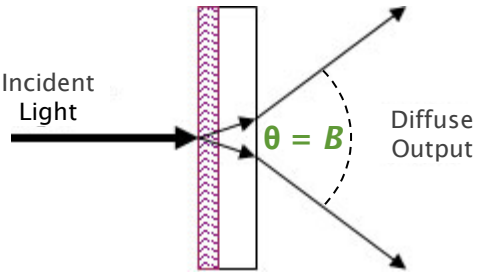
石英工程散射片

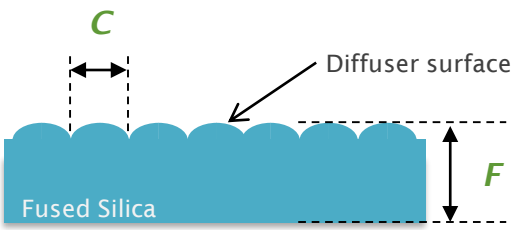
GDF Series: Fact Sheet

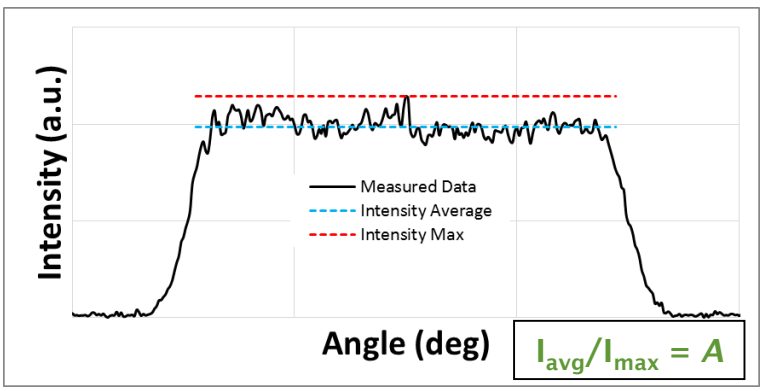
Model: GDF-C5

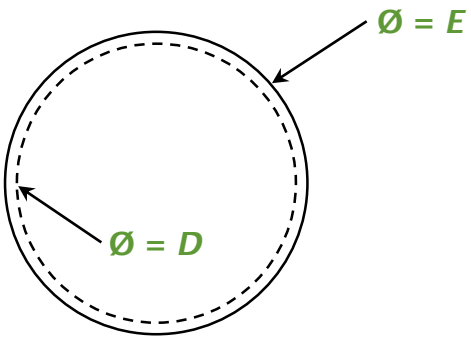
Optical Properties	
Diffuser type	Refractive, bandlimited
Diffuser pattern	Circle, Flat Top*
*Flatness factor (A)	≥ 0.70
Divergence angle (*B*)	5.0° ± 0.5° FWHM
Transmission spectrum	See Notes
Operating spectrum	193 – 2000 nm
Index of refraction	1.457 @ 633 nm
Diffuser feature size (*C*)	100 µm (typical)
Clear aperture (*D*)	Center 23.4 mm
Efficiency	90% (uncoated)
AR Coating	Uncoated
Mechanical Properties	
Material	Corning 7980 HPFS
Diameter (*E*)	25.4 ± 0.1 mm dia.
Thickness (*F*)	1.0 mm ± 0.1 mm
Mount	Unmounted











Example data. Actual intensity profile may differ.
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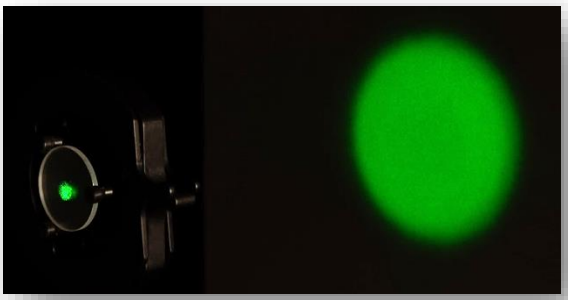
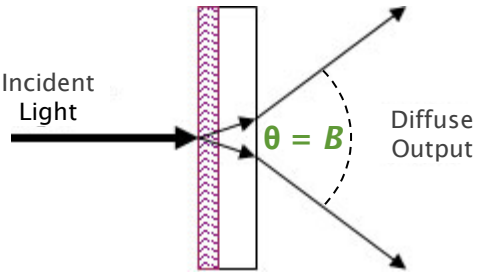
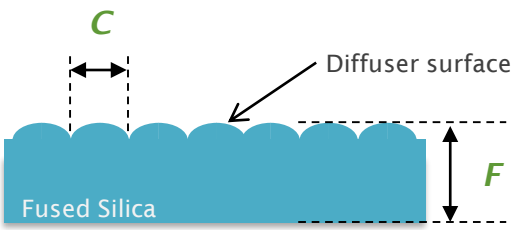
GDF Series: Fact Sheet

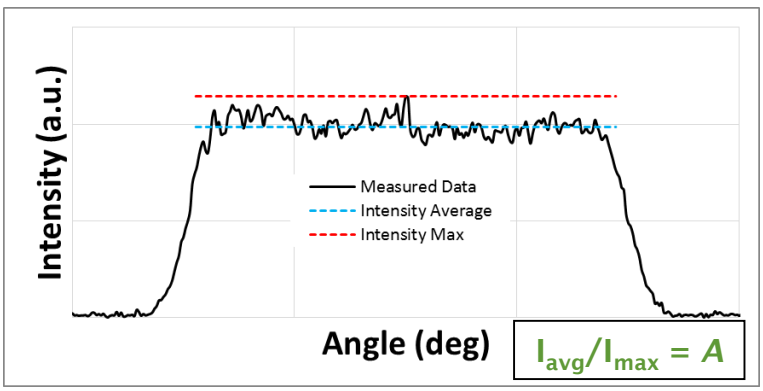
Model: GDF-C10

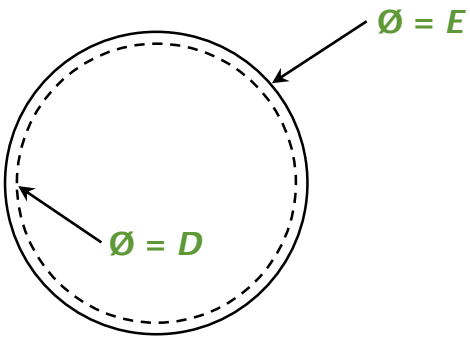
Optical Properties	
Diffuser type	Refractive, bandlimited
Diffuser pattern	Circle, Flat Top*
*Flatness factor (A)	≥ 0.70
Divergence angle (*B*)	10.0° ± 1.0° FWHM
Transmission spectrum	See Notes
Operating spectrum	193 – 2000 nm
Index of refraction	1.457 @ 633 nm
Diffuser feature size (*C*)	100 µm (typical)
Clear aperture (*D*)	Center 23.4 mm
Efficiency	90% (uncoated)
AR Coating	Uncoated
Mechanical Properties	
Material	Corning 7980 HPFS
Diameter (*E*)	25.4 ± 0.1 mm dia.
Thickness (*F*)	1.0 mm ± 0.1 mm
Mount	Unmounted









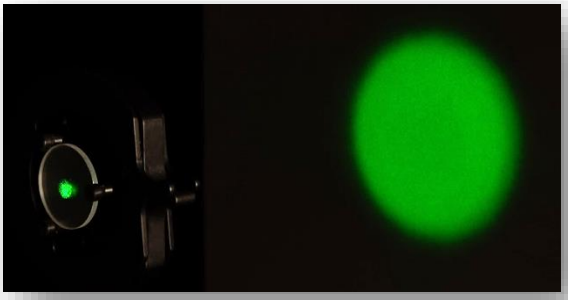


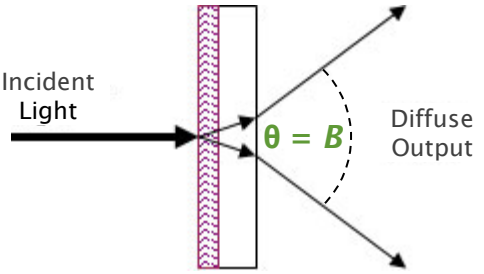
Example data. Actual intensity profile may differ.
See ISO 13694:2000, section 3.2.9.

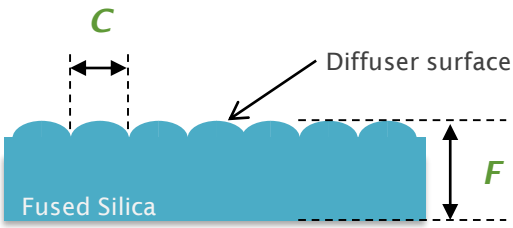
GDF Series: Fact Sheet

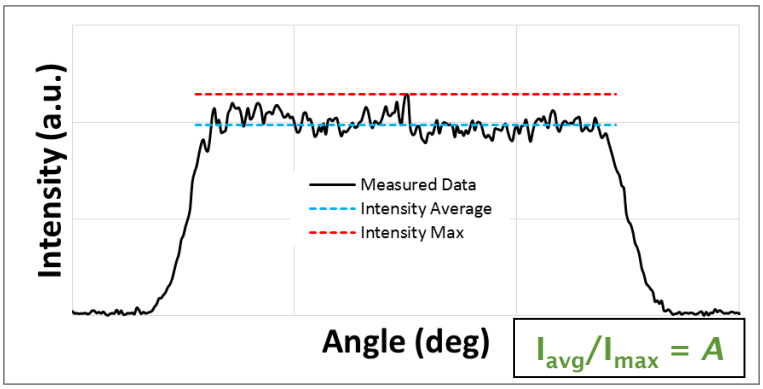
Model: GDF-C20

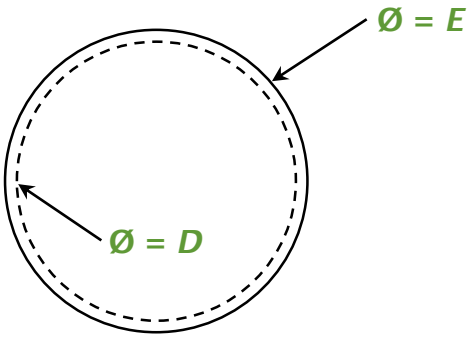
Optical Properties	
Diffuser type	Refractive, bandlimited
Diffuser pattern	Circle, Flat Top*
*Flatness factor (A)	≥ 0.70
Divergence angle (*B*)	20.0° ± 2.0° FWHM
Transmission spectrum	See Notes
Operating spectrum	193 – 2000 nm
Index of refraction	1.457 @ 633 nm
Diffuser feature size (*C*)	100 µm (typical)
Clear aperture (*D*)	Center 23.4 mm
Efficiency	90% (uncoated)
AR Coating	Uncoated
Mechanical Properties	
Material	Corning 7980 HPFS
Diameter (*E*)	25.4 ± 0.1 mm dia.
Thickness (*F*)	1.0 mm ± 0.1 mm
Mount	Unmounted











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

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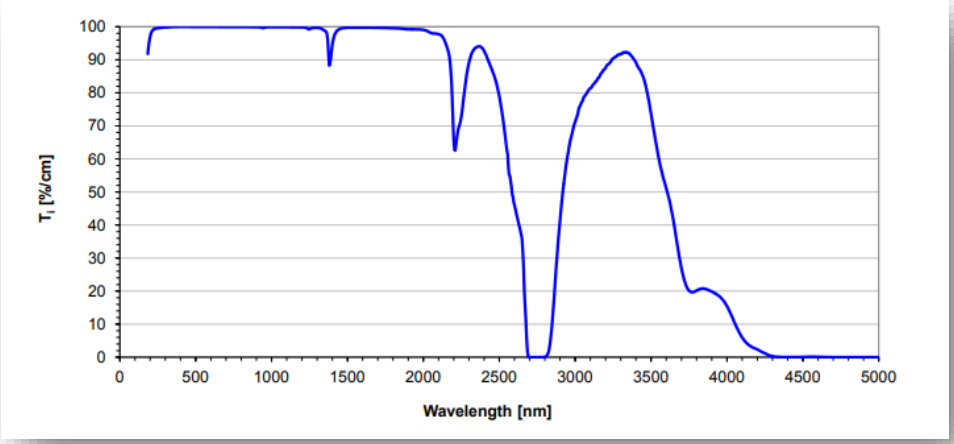
Notes

Transmission spectrum



- Diffuser angles measured in the far-field @ 633nm. Input beam size ~5mm, 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_2 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.