

Engineered Diffusers™



Ø1"

Common Specifications

- Material: Injection Molded ZEONOR
- Index of Refraction: 1.53
- Thickness: 1.5 mm (Unmounted)
- Clear Aperture: 95% of Diameter
- Transmission Spectrum: 380 - 1100 nm
- Maximum Temperature: 120 °C
- Incident Beam Size: ≥0.5 mm
- Transmission Efficiency: 90%
- Design Wavelength: Achromatic (400 - 700 nm)

- Square, Circular, and Line Diffusion Patterns
- Unmounted and Mounted Options
- Kit Available (See Previous Page)

ED1-S20 and ED1-S50

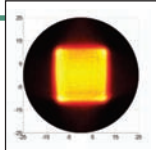
- Scatter Shape: Square
- Divergence:*

ED1-S20

- 20° (Flat Region)
- 27° (50%-Max)
- 36° (10%-Max)

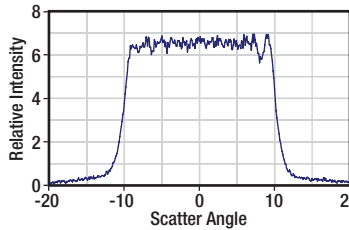
ED1-S50

- 50° (Flat Region)
- 60° (50%-Max)
- 70° (10%-Max)

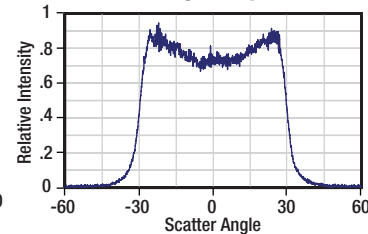


Diffusers made of other materials, such as Fused Silica, ZnS, ZnSe, and CaF₂ are available upon request. Please contact Technical Support for a quote.

20 Degree Square



50 Degree Square



ED1-C20 and ED1-C50

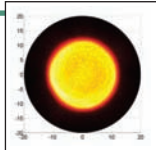
- Scatter Shape: Circle
- Divergence:*

ED1-C20

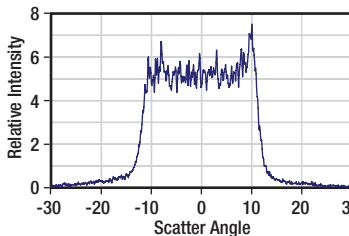
- 20° (Flat Region)
- 27° (50%-Max)
- 36° (10%-Max)

ED1-C50

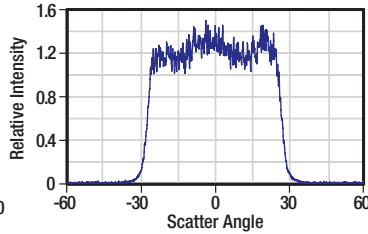
- 50° (Flat Region)
- 54° (50%-Max)
- 60° (10%-Max)



20 Degree Circle

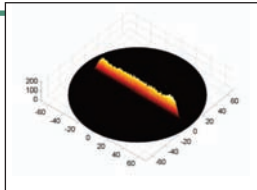


50 Degree Circle

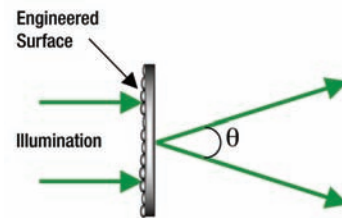
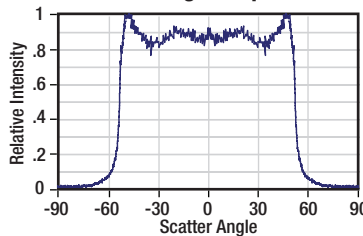


ED1-L4100

- Scatter Shape: Line
- Divergence:*
- 100° (Flat Region)
- 105° (50%-Max)
- 115° (10%-Max)



100 Degree Square



*Divergence: Angles defined for 633 nm and collimated illumination. Actual angles may differ from nominal values or other wavelengths or degree of collimation.

ITEM #	\$	£	€	RMB	DESCRIPTION
ED1-S20	\$ 117.00	£ 84.24	€ 101,79	¥ 932.49	Ø1" Round 20° Square Top-Hat Diffuser
ED1-S50	\$ 117.00	£ 84.24	€ 101,79	¥ 932.49	Ø1" Round 50° Square Top-Hat Diffuser
ED1-C20	\$ 117.00	£ 84.24	€ 101,79	¥ 932.49	Ø1" Round 20° Circular Top-Hat Diffuser
ED1-C50	\$ 117.00	£ 84.24	€ 101,79	¥ 932.49	Ø1" Round 50° Circular Top-Hat Diffuser
ED1-L4100	\$ 117.00	£ 84.24	€ 101,79	¥ 932.49	Ø1" Round 0.4° x 100° Line Generator

ITEM #	\$	£	€	RMB	DESCRIPTION
ED1-S20-MD	\$ 129.50	£ 93.24	€ 112,67	¥ 1,032.12	Ø1" Mounted Round 20° Square Top-Hat Diffuser
ED1-S50-MD	\$ 129.50	£ 93.24	€ 112,67	¥ 1,032.12	Ø1" Mounted Round 50° Square Top-Hat Diffuser
ED1-C20-MD	\$ 129.50	£ 93.24	€ 112,67	¥ 1,032.12	Ø1" Mounted Round 20° Circle Top-Hat Diffuser
ED1-C50-MD	\$ 129.50	£ 93.24	€ 112,67	¥ 1,032.12	Ø1" Mounted Round 50° Circle Top-Hat Diffuser
ED1-L4100-MD	\$ 129.50	£ 93.24	€ 112,67	¥ 1,032.12	Ø1" Mounted Round 0.4° x 100° Line Generator