

40° Diffusing Angle 50mm Dia., Fused Silica Holographic Diffuser



UV Fused Silica Holographic Diffusers

Stock **#48-521** **2 In Stock**

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1

+

C\$1,148⁰⁰

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General	
Holographic Diffuser	Type:
Physical & Mechanical Properties	
45.7 ±0.1	Clear Aperture CA (mm):
50.00 ±0.1	Diameter (mm):
Mounted	Construction:

Optical Properties	
±4	Angle Tolerance (°):
40 (FWHM)	Diffusing Angle (°):
Fused Silica (Corning 7980)	Substrate: ☐
Typical: 90	Transmission (%):
400 - 700	Wavelength Range (nm):
Threading & Mounting	
5.00 +0.00/-0.35	Mount Thickness (mm):
Environmental & Durability Factors	
-40 to +170	Operating Temperature (°C):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

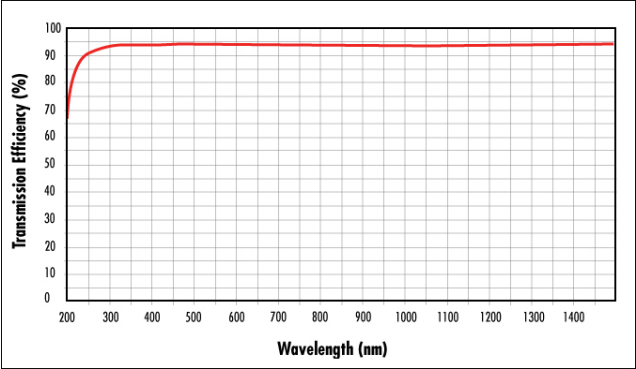
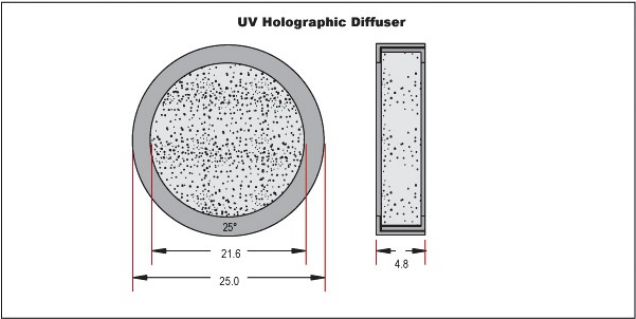
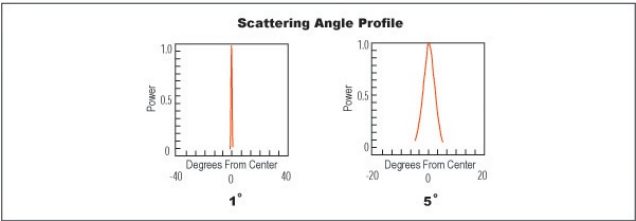
- Diffusing Angles Ranging from 0.5 - 50°
- Fused Silica Substrate Ideal for High Temperatures
- Homogenous Light Distribution
- Standard Holographic Diffusers Also Available

UV Fused Silica Holographic Diffusers are used to control the diffuse area of illumination and increase transmission efficiency to greater than 90% from filament lamps, LEDs, arc lamps, and other sources. These UV Fused Silica Holographic Diffusers use a fused silica substrate enabling their use at higher operating temperature than polycarbonate holographic diffusers and offer controlled, homogenous light distribution. It is important to note that diffusing angles are given for a collimated input beam and angular divergence will vary for different incidence angles.

Unlike many holographic elements, these specific fused silica components transmit light in the UV, visible, and near-infrared. Zero order, or a specular component, of transmitted light is less than 1% for visible wavelengths. Diffusers with wider diffusing angles (10 degree FWHM or wider) can also be used in an extended range of 200-1500nm, but those with lower diffusing angles are only recommended for use between 400-700nm.

Note: Matte surface should face the light source. To clean holographic diffusers, dampen a lint free cloth wipe with methanol and gently wipe the entire diffuser surface in a gentle, circular pattern. Immediately and carefully blow off the clean diffuser area with dry compressed air. Caution: cleaning may cause a change in the optical performance of the diffuser.

Technical Information



Compatible Mounts

