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Family ID #1363

Holographic Diffusers



- Transmission Efficiency >85%
- Elliptical and Circular Diffusing Outputs
- Ideal for Visible and Near-Infrared Applications
- **UV Holographic Diffusers** Also Available

Common Specifications

Damage Threshold, Pulsed:	0.22 J/cm^2 @ 1064nm, 10ns (typical)
Operating Temperature (°C):	-30 to +100 (Maximum of 240 Hours)
Substrate:	Polycarbonate
Transmission (%):	>85
Wavelength Range (nm):	400 - 1600

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. **Standard ground glass** and **opal glass** will produce diffuse illumination, but the diffuse light area will often exceed the requirements of the system. This over-illumination, associated with traditional diffusers, reduces efficiency and can often lead to added costs by requiring higher power illumination sources, lenses, and possibly filters. 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 polycarbonate components can be used throughout the visible and near-infrared. Available individually, as umounted sheets, or in sets of four filters. Holographic Diffusers can be cleaned with a de-ionized water rinse, followed by a forced air drying. Wipe gently with lens tissue soaked with methanol, followed with a forced clean air or nitrogen drying. Holographic Diffusers are resistant to methanol and methylene chloride.

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	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy		
	0.2 x 40 (FWHM)	21.6	25.00	-	2.60		**#47-997**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK	1	
	0.2 x 40 (FWHM)	45.7	50.00	-	2.60		**#47-998**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK	1	
	0.2 x 40 (FWHM)	-		50.8 x 50.8	0.78		**#47-999**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK	1	

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	0.2 x 40 (FWHM)	-		203.2 x 203.2	0.78		**#48-000**	$355.00 **Request a Quote**	IN STOCK 1
	0.5 (FWHM)	-	12.50	-	0.78		**#35-860**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	0.5 (FWHM)	21.6	25.00	-	2.60		**#47-988**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	0.5 (FWHM)	45.7	50.00	-	2.60		**#47-989**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	0.5 (FWHM)	-		50.8 x 50.8	0.78		**#47-990**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	0.5 (FWHM)	-		203.2 x 203.2	0.78		**#65-883**	$355.00 **Request a Quote**	IN STOCK 1
	1 (FWHM)	-	12.50	-	0.78		**#35-861**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 (FWHM)	21.6	25.00	-	2.60		**#47-991**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 (FWHM)	45.7	50.00	-	2.60		**#47-992**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 (FWHM)	-		50.8 x 50.8	0.78		**#47-993**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 (FWHM)	-		203.2 x 203.2	0.78		**#65-884**	$355.00 **Request a Quote**	CONTACT US 1

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	1 x 60 (FWHM)	21.6	25.00	-	2.60		**#48-001**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 x 60 (FWHM)	45.7	50.00	-	0.78		**#48-002**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	5 x 30 (FWHM)	-		50.8 x 50.8	0.78		**#48-007**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 x 60 (FWHM)	-		50.8 x 50.8	0.78		**#48-003**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	1 x 60 (FWHM)	-		203.2 x 203.2	0.78		**#48-004**	$355.00 **Request a Quote**	IN STOCK 1
	5 (FWHM)	-	12.50	-	0.78		**#35-862**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	5 (FWHM)	21.6	25.00	-	2.60		**#47-994**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	5 (FWHM)	45.7	50.00	-	2.60		**#47-995**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	5 (FWHM)	-		50.8 x 50.8	0.78		**#47-996**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	5 (FWHM)	-		203.2 x 203.2	0.78		**#65-885**	$355.00 **Request a Quote**	CONTACT US 1
	5 x 30 (FWHM)	21.6	25.00	-	2.60		**#48-005**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	5 x 30 (FWHM)	45.7	50.00	-	0.78		**#48-006**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	5 x 30 (FWHM)	-		203.2 x 203.2	0.78		**#48-008**	$355.00 **Request a Quote**	IN STOCK 1
	10 (FWHM)	-	12.50	-	0.78		**#35-863**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	10 (FWHM)	21.6	25.00	-	2.60		**#54-492**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	10 (FWHM)	45.7	50.00	-	2.60		**#54-493**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	10 (FWHM)	-		50.8 x 50.8	0.78		**#55-438**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	10 (FWHM)	-		203.2 x 203.2	0.78		**#55-442**	$355.00 **Request a Quote**	IN STOCK 1
	10 x 60 (FWHM)	21.6	25.00	-	2.60		**#48-009**	$139.00 VOLUME PRICING **Request a Quote**	CONTACT US 1
	10 x 60 (FWHM)	45.7	50.00	-	2.60		**#48-010**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	10 x 60 (FWHM)	-		50.8 x 50.8	0.78		**#55-441**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	10 x 60 (FWHM)	-		203.2 x 203.2	0.78		**#55-445**	$355.00 **Request a Quote**	IN STOCK 1

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	15 (FWHM)	-	12.50	-	0.78		**#35-864**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	15 (FWHM)	21.6	25.00	-	2.60		**#54-494**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	15 (FWHM)	45.7	50.00	-	2.60		**#54-495**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	15 (FWHM)	-		50.8 x 50.8	0.78		**#47-676**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	15 (FWHM)	-		203.2 x 203.2	0.78		**#47-677**	$355.00 **Request a Quote**	IN STOCK 1
	20 (FWHM)	-	12.50	-	0.78		**#35-865**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	20 (FWHM)	21.6	25.00	-	2.60		**#54-496**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	20 (FWHM)	45.7	50.00	-	2.60		**#54-497**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	20 (FWHM)	-		50.8 x 50.8	0.78		**#55-852**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	20 (FWHM)	-		203.2 x 203.2	0.78		**#65-886**	$355.00 **Request a Quote**	IN STOCK 1
	25 (FWHM)	-	12.50	-	0.78		**#35-866**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	25 (FWHM)	21.6	25.00	-	2.60		**#54-498**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	25 (FWHM)	45.7	50.00	-	2.60		**#54-499**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	25 (FWHM)	-		50.8 x 50.8	0.78		**#65-887**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	25 (FWHM)	-		203.2 x 203.2	0.78		**#65-888**	$355.00 **Request a Quote**	CONTACT US 1
	30 (FWHM)	-	12.50	-	0.78		**#35-867**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	30 (FWHM)	21.6	25.00	-	2.60		**#54-500**	$139.00 VOLUME PRICING **Request a Quote**	CONTACT US 1
	30 (FWHM)	45.7	50.00	-	2.60		**#54-501**	$199.00 VOLUME PRICING **Request a Quote**	CONTACT US 1
	30 (FWHM)	-		50.8 x 50.8	0.78		**#55-439**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	30 (FWHM)	-		203.2 x 203.2	0.78		**#55-443**	$355.00 **Request a Quote**	IN STOCK 1
	40 (FWHM)	-	12.50	-	0.78		**#35-868**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	40 (FWHM)	21.6	25.00	-	2.60		**#54-502**	$139.00 VOLUME PRICING **Request a Quote**	CONTACT US 1
	40 (FWHM)	45.7	50.00	-	2.60		**#54-503**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	40 (FWHM)	-		50.8 x 50.8	0.78		**#65-889**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	40 (FWHM)	-		203.2 x 203.2	0.78		**#65-890**	$355.00 **Request a Quote**	CONTACT US 1
	60 (FWHM)	-	12.50	-	0.78		**#35-869**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	60 (FWHM)	21.6	25.00	-	2.60		**#54-504**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	60 (FWHM)	45.7	50.00	-	2.60		**#54-505**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	60 (FWHM)	-		50.8 x 50.8	0.78		**#55-440**	$189.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	60 (FWHM)	-		203.2 x 203.2	0.78		**#55-444**	$355.00 **Request a Quote**	IN STOCK 1
	80 (FWHM)	-	12.50	-	0.78		**#35-870**	$69.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	80 (FWHM)	21.6	25.00	-	2.60		**#54-506**	$139.00 VOLUME PRICING **Request a Quote**	IN STOCK 1

	Diffusing Angle (°)	CA (mm)	Dia. (mm)	Dimensions (mm)	Thickness (mm)	Compare	Stock Number	Price	Buy
	80 (FWHM)	45.7	50.00	-	2.60		**#54-507**	$199.00 VOLUME PRICING **Request a Quote**	IN STOCK 1
	80 (FWHM)	-		50.8 x 50.8	0.78		**#47-678**	$189.00 VOLUME PRICING **Request a Quote**	CONTACT US 1
	80 (FWHM)	-		203.2 x 203.2	0.78		**#47-679**	$355.00 **Request a Quote**	IN STOCK 1

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