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70mm Dia. x 51.5mm FL, Uncoated, Molded Condenser Lens with Smooth Diffuser



Molded Diffuse Aspheric Condenser Lenses

Stock #22-689 **11 In Stock**

⊖ 1 ⊕ **S\$138⁰⁰**

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Volume Pricing

Qty 1-10	S\$138.60 each
Qty 11-49	S\$124.60 each
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General

Note:

Maximum of 5 imperfections allowed with an area of 0.8mm, per ISO 10110-7 specification of 5/5 x 0.63. [Click here](#) for more information on the ISO 10110 surface quality specification.

Physical & Mechanical Properties

Diameter (mm):
70.00 ±0.20

Centering (arcmin):

≤25	
61.20	Clear Aperture CA (mm):
4.00	Edge Thickness ET (mm):
30.68 ±0.50	Center Thickness CT (mm):
Protective as needed	Bevel:
68	Diameter of Asphere (mm):
Plano	Shape of Back Surface:
Smooth	Grit: □

Optical Properties

51.50	Effective Focal Length EFL (mm):
0.66	Numerical Aperture NA:
31.80	Back Focal Length BFL (mm):
Tritan	Substrate: □
±7	Focal Length Tolerance (%):
Uncoated	Coating:
As Molded	Surface Quality:
0.76	f#:
Plano	Radius R₂ (mm):
350 - 2000	Wavelength Range (nm):
Infinite	Conjugate Distance:
587.6	Focal Length Specification Wavelength (nm):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 242:

Product Details

- Combine a Condenser and Diffuser into One Element
- Fine, Medium, and Rough Diffuser Surface Textures
- Provide Diffuse, Homogenous Illumination
- [Condenser Lenses](#) and [Diffusers](#) Also Available

Molded Diffuse Aspheric Condenser Lenses combine a condenser lens and a diffuser into one optical element to simplify illumination systems. These lenses collimate light from LEDs and other light sources to provide homogenous illumination with greater efficiency than using a condenser lens with a ground glass diffuser. Lenses are available with three molded diffuser surface textures (fine, medium, and rough) with coarser textures providing a higher degree of diffusion but lower transmission. Molded Diffuse Aspheric Condenser Lenses feature durable glass substrates, enabling their use with low to high power LEDs, and are ideal for space constrained systems requiring diffuse, homogenous illumination.

Technical Information

MOLDED DIFFUSE ASPHERIC CONDENSER LENSES

Regular Condenser Lens	Condenser Lens with Smooth Diffuser	Condenser Lens with Medium Diffuser	Condenser Lens with Rough Diffuser
			
<p>Light collimated from an LED using a regular condenser lens and condenser lenses with a diffuser surface. As the texture of the diffuser surface becomes rougher, the level of diffusion increases.</p>			

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