See all 12 Products in Family

51.7mm Dia. x 34mm FL, Uncoated, Molded Condenser Lens with Rough Diffuser

Molded Diffuse Aspheric Condenser Lenses

Stock **#22-688** **6 In Stock**

- 1 + **A$89.60**

ADD TO CART

Volume Pricing	
Qty 1-10	**A$89.60** each
Qty 11-49	**A$80.00** each
Need More?	Request Quote

Product Downloads

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):
51.68 ±0.20

Centering (arcmin):

≤25

Clear Aperture CA (mm):
43.20

Edge Thickness ET (mm):
3.20

Center Thickness CT (mm):
24.24 ±0.30

Bevel:
Protective as needed

Diameter of Asphere (mm):
48

Shape of Back Surface:
Plano

Grit:
Rough

Optical Properties

Effective Focal Length EFL (mm):
34.00

Numerical Aperture NA:
0.70

Back Focal Length BFL (mm):
18.10

Substrate:
Tritan

Focal Length Tolerance (%):
±7

Coating:
Uncoated

Surface Quality:
As Molded

f/#:
0.71

Radius R_2 (mm):
Plano

Wavelength Range (nm):
350 - 2000

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
587.6

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

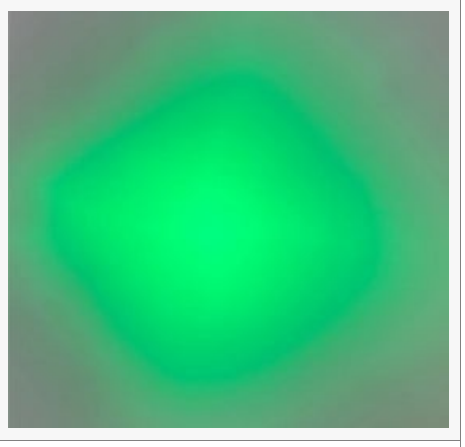
Reach 242:
Compliant

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	Conenser Lens with Medium Diffuser	Condenser Lens with Rough Diffuser
			
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.			

;