

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



Molded Diffuse Aspheric Condenser Lenses

Stock #22-691 **4 In Stock**

⊖ 1 ⊕ £79<sup>20</sup>

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### Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1-10   | £79.20 each                   |
| Qty 11-49  | £71.20 each                   |
| Need More? | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

### 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):**  
70.00 ±0.20

|                      |                                  |
|----------------------|----------------------------------|
| ≤25                  | <b>Centering (arcmin):</b>       |
| 61.20                | <b>Clear Aperture CA (mm):</b>   |
| 4.00                 | <b>Edge Thickness ET (mm):</b>   |
| 30.68 ±0.50          | <b>Center Thickness CT (mm):</b> |
| Protective as needed | <b>Bevel:</b>                    |
| 68                   | <b>Diameter of Asphere (mm):</b> |
| Plano                | <b>Shape of Back Surface:</b>    |
| Rough                | <b>Grit:</b> □                   |

## Optical Properties

|            |  |
|------------|--|
| 51.50      | <b>Effective Focal Length EFL (mm):</b>            |
| 0.66       | <b>Numerical Aperture NA:</b>                      |
| 31.8       | <b>Back Focal Length BFL (mm):</b>                 |
| Tritan     | <b>Substrate:</b> □                                |
| ±7         | <b>Focal Length Tolerance (%):</b>                 |
| Uncoated   | <b>Coating:</b>                                    |
| As Molded  | <b>Surface Quality:</b>                            |
| 0.76       | <b>f#:</b>   |
| Plano      | <b>Radius R<sub>2</sub> (mm):</b>                  |
| 350 - 2000 | <b>Wavelength Range (nm):</b>                      |
| Infinite   | <b>Conjugate Distance:</b>                         |
| 587.6      | <b>Focal Length Specification Wavelength (nm):</b> |

## Regulatory Compliance

|                           |                                    |
|---------------------------|------------------------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b>                  |
| <a href="#">View</a>      | <b>Certificate of Conformance:</b> |
| <a href="#">Compliant</a> | <b>Reach 242:</b>                  |

## 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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