

TECHSPEC<sup>®</sup> 25mm H x 50mm L x -150mm FL Uncoated, Illumination Grade PCV Cylinder Lens



TECHSPEC<sup>®</sup> Illumination Grade PCV Cylinder Lenses

Stock **#68-068** 20+ In Stock

-

1

+

€100.<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €100,00 each                  |
| Qty 6-25       | €90,00 each                   |
| Qty 26-49      | €85,00 each                   |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Cylinder Lens, Plano-Concave

Type:

Physical & Mechanical Properties

4.00

Center Thickness CT (mm):

Center Thickness Tolerance (mm):

|             |                             |
|-------------|-----------------------------|
| ±0.1        |                             |
| +0.0/-0.2   | Dimensional Tolerance (mm): |
| 25.0 x 50.0 | Dimensions (mm):            |
| 4.97        | Edge Thickness ET (mm):     |

Optical Properties

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| -150.00    | Effective Focal Length EFL (mm):                                                             |
| N-BK7      | Substrate:  |
| Uncoated   | Coating:                                                                                     |
| 350 - 2200 | Wavelength Range (nm):                                                                       |
| -152.64    | Back Focal Length BFL (mm):                                                                  |
| ±3         | Focal Length Tolerance (%):                                                                  |
| -77.52     | Radius R <sub>1</sub> (mm):                                                                  |
| 60-40      | Surface Quality:                                                                             |

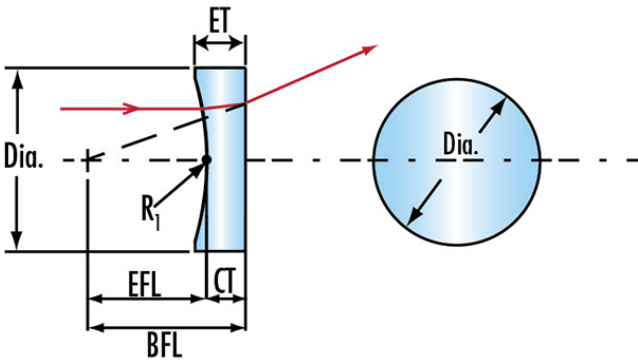
Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| Compliant | REACH 201:                  |
| View      | Certificate of Conformance: |

## Product Details

- Cylinder Lenses Ideal for 1 Dimensional Laser Beam Convergence
  - Circular and Rectangular Form Factors
  - Multiple Coating Options Available
- TECHSPEC® Illumination Grade PCV Cylinder Lenses are commonly used to turn a collimated laser source into a line generator. These PCV Cylinder Lenses and [TECHSPEC Illumination Grade PCX Cylinder Lenses](#) can be used together for beam expander applications.
- The thin lens approximation for the length of a line generated by a negative cylinder lens is:  $L = 2 * (r_0/f) * (z + f)$  where L is the line length,  $r_0$  is half the beam diameter, z is the projection distance, and -f is the focal length of the lens.

## Technical Information



## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).