

# Precision Cylindrical Lens

Precision cylindrical lenses are designed for a variety of optical applications. Manufactured from high-quality optical materials, they feature a curved surface in one dimension to focus or expand light in a single axis.



## Overview

### Precision Cylindrical Lens

These precision cylindrical lenses are expertly manufactured from BK7 grade A optical glass, designed to provide superior optical performance. Featuring a curved surface in one dimension, they are specifically engineered to focus or expand light along a single axis. They are an ideal solution for demanding applications such as laser line generation, beam shaping, and sophisticated anamorphic imaging systems.

## Optical Properties

### Clear Aperture

**85 %**  
Clear Aperture

|                   |          |
|-------------------|----------|
| Design Wavelength | 632.8 nm |
|-------------------|----------|

|              |        |
|--------------|--------|
| Design Index | 1.5147 |
|--------------|--------|

## Physical Specifications

|          |                           |
|----------|---------------------------|
| Material | BK7 grade A optical glass |
|----------|---------------------------|

|                     |            |
|---------------------|------------|
| Dimension Tolerance | +/- 0.2 mm |
|---------------------|------------|

|       |                |
|-------|----------------|
| Bevel | 0.25mm x 45deg |
|-------|----------------|

## Quality & Tolerance

### Surface Figure

| Axis | Tolerance   |
|------|-------------|
| x    | $\lambda/2$ |
| y    | $2\lambda$  |

### Surface Quality

60-40 S/D

|                                 |        |
|---------------------------------|--------|
| Paraxial Focal Length Tolerance | +/- 2% |
|---------------------------------|--------|

|            |               |
|------------|---------------|
| Centration | 3 arc minutes |
|------------|---------------|