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TECHSPEC® 4mm Aperture, 50mm L Standard NA, Hexagonal Light Pipe



N-BK7 Light Pipe Homogenizing Rods



Stock #49-402 **15 In Stock**

⊖ 1 ⊕ **S\$204⁰⁰**

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Volume Pricing	
Qty 1-5	S\$204.40 each
Qty 6-25	S\$163.80 each
Qty 26-49	S\$154.00 each
Need More?	Request Quote

Product Downloads

General

Light Pipe **Type:**

Physical & Mechanical Properties

50.00 **Length (mm):**

<5.00	Parallelism (arcmin):
±0.3	Length Tolerance (mm):
Standard	Light Source NA:

Optical Properties

Uncoated	Coating:
N-BK7	Substrate: □
60-40	Surface Quality:
4.00	Entrance and Exit Aperture (mm):
±0.10	Aperture Tolerance (mm):
Light Homogenization	Image Orientation:
350 - 2200	Wavelength Range (nm):
1λ	Surface Flatness (P-V):

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

Need different specs or modifications?

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](#).

Product Details

- Homogenizes Non-Uniform Light Sources
- Hexagonal Entrance Aperture
- Uncoated and VIS-EXT Coated Options Available
- Ideal for OEM Illumination
- Additional [Light Pipe Homogenizing Rods](#) Available

TECHSPEC® N-BK7 Light Pipe Homogenizing Rods utilize total internal reflection to homogenize non-uniform light sources regardless of spectral characteristics. Their hexagonal configurations provide 35% less light loss than a comparable square configuration. Low Numerical Aperture (NA) sources require longer pipes to uniformly homogenize light, while shorter pipes will sufficiently homogenize the output from high NA sources. TECHSPEC N-BK7 Light Pipe Homogenizing Rods are made from precision N-BK7 for use in a variety of visible light applications and are available uncoated or with VIS-EXT coatings.

[Fused silica versions](#) of our light pipe homogenizing rods are also available. [TECHSPEC® Light Pipe Homogenizing Rod Mounts](#), specifically designed to hold our standard and fused silica families of light pipe homogenizing rods, are available; these mounts greatly simplify the handling and integration of these components.

Technical Information

