# meadowlark optics

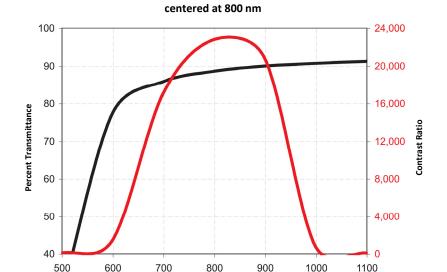
## **High Contrast Linear Polarizer**

In response to the need for improved contrast in the near infrared region, Meadowlark Optics now offers a line of High Contrast Linear Polarizers. These polarizers are constructed by laminating Polarcor™ dichroic glass polarizers between high quality glass substrates to achieve improved wavefront performance and surface quality.

Meadowlark Optics High Contrast Linear Polarizers offer the performance of calcite polarizers in large apertures. Contrast ratios are available as high as 10,000:1. Custom wavelength ranges from 630 to 1580 nm with 60 to 80 nm bandpasses and sizes from 10 to 25 mm are available.

Please contact a Meadowlark Optics Sales Engineer to discuss your specific application.

Typical transmission for a High Contrast Linear Polarizer



Extinction ratio is measured with a Glan-Thompson polarizer.

Wavelength (nm)



## Key Features

Very high contrast High transmission Absorptive dichroic glass

#### Polarization Suite

### **Linear Polarizers**

Precision Linear Polarizer High Contrast Linear Polarizer Ultra-High Contrast Linear Polarizer Glan-Thompson Polarizer Ultra Broadband Polarizer **MWIR** Polarizer Deep Ultraviolet Polarizer

#### **Beamsplitting Polarizers**

Versalight Polarizer Wire Grid Beam Splitter Laser Line Beamsplitting Polarizer Broadband Beamsplitting Polarizer Polarizing Bandpass Filter

#### **Circular Polarizers**

Dichroic Circular Polarizer Beam Separator



SPECIFICATIONS				
Polarizer Material	Dichroic Glass			
Substrate Material	BK 7 Grade A, fine annealed			
Transmitt ed Wavefront Distortion (at 632.8 nm)	≤ \(\lambda \setminus 4\)			
Surface Quality	40 – 20 scratch-dig			
Beam Deviation	≤ 3 arc min			
Reflectance (per surface)	≤ 0.5% at normal incidence			
Temperature Range	-50°C to +70°C			
Recommended Safe Operating Limit	1 W/cm <sup>2</sup> , CW 200 mJ/cm <sup>2</sup> , 20 ns, visible 2 J/cm <sup>2</sup> , 20 ns, 1064 nm			

Prolonged exposure to strong ultraviolet radiation may damage these polarizers.

ORDERING INFORMATION				
Diameter in. (mm)	Clear Aperture in. (mm)	Thickness in. (mm)	Wavelength Range	Part Number
1.00 (25.4 mm)	0.40 (10.16 mm)	0.25 (6.35 mm)	Please specify	PPM – 050 – λ
1.00 (25.4 mm)	0.70 (17.78 mm)	0.35 (8.89 mm)	Please specify	PPM – 100 – λ

Custom sizes are available. Please contact your Meadowlark Optics sales engineer for assistance.