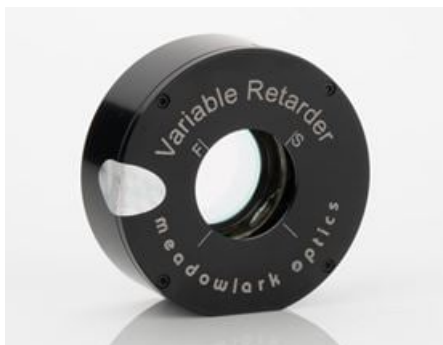


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## Meadowlark Optics Liquid Crystal Variable Retarders



- Enable Precision Electrical Control of Polarization
- Multiple Options for UV to NIR wavelengths
- Compatible with [Meadowlark Optics Liquid Crystal Controllers](#)

### Common Specifications

#### Optical Properties

|                                     |                                                                    |                                                |                                        |
|-------------------------------------|--------------------------------------------------------------------|------------------------------------------------|----------------------------------------|
| <b>Coating:</b>                     | AR-Coat                                                            | <b>Substrate:</b>                              | Optical Quality synthetic fused silica |
| <b>Reflection (%):</b>              | $\leq 0.5\%$ per surface at $0^\circ$ deg AOI                      | <b>Surface Quality:</b>                        | 40-20                                  |
| <b>Beam Deviation (arcmin):</b>     | $\leq 2$                                                           | <b>Transmitted Wavefront Distortion (RMS):</b> | $\leq \lambda/4$ @ 632.8nm             |
| <b>Damage Threshold, Reference:</b> | 500 W/cm <sup>2</sup> , CW 300 mJ/cm <sup>2</sup> , 10 ns, visible | <b>Retardance Range:</b>                       | $\sim 30\text{nm}$ to $\lambda/2$      |

#### Threading & Mounting

|               |                    |
|---------------|--------------------|
| <b>Mount:</b> | Anodized Aluminium |
|---------------|--------------------|

#### Material Properties

|                           |                        |
|---------------------------|------------------------|
| <b>Retarder Material:</b> | Nematic Liquid Crystal |
|---------------------------|------------------------|

#### Environmental & Durability Factors

|                                    |         |
|------------------------------------|---------|
| <b>Operating Temperature (°C):</b> | 0 to 50 |
|------------------------------------|---------|

## Technical Information

## Products

| Dia.<br>(mm) | Thickness<br>(mm) | Wavelength<br>Range (nm) | CA<br>(mm) | Stock<br>Number         | Price     | Buy        |
|--------------|-------------------|--------------------------|------------|-------------------------|-----------|------------|
| 25.40        | 31.24             | 350 - 450                | 9.4        | <a href="#">#72-835</a> | €1.854,00 | 1 In Stock |
| 25.40        | 31.24             | 450 - 700                | 9.4        | <a href="#">#72-836</a> | €1.230,85 | 2 In Stock |
| 25.40        | 31.24             | 650 - 950                | 9.4        | <a href="#">#72-837</a> | €1.230,85 | 3 In Stock |
| 25.40        | 31.24             | 900 - 1250               | 9.4        | <a href="#">#72-838</a> | €1.230,85 | 1 In Stock |
| 25.40        | 31.24             | 1200 - 1700              | 9.4        | <a href="#">#72-839</a> | €1.230,85 | 2 In Stock |
| 50.80        | 19.05             | 450 - 700                | 17.8       | <a href="#">#72-840</a> | €1.467,75 | 1 In Stock |
| 50.80        | 19.05             | 650 - 950                | 17.8       | <a href="#">#72-841</a> | €1.467,75 | 1 In Stock |
| 50.80        | 19.05             | 900 - 1250               | 17.8       | <a href="#">#72-842</a> | €1.467,75 | 1 In Stock |
| 50.80        | 19.05             | 1200 - 1700              | 17.8       | <a href="#">#72-843</a> | €1.467,75 | 1 In Stock |



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