

DOE-RD10K850A-x Diffractive Optical Element DOE 10000-Dot Random Pattern (59x46 deg at 850nm)



Features

Random dots patternNumber of dots: 10,000

Substrate material: PET/PMMA
 DOE active area: 4x4 mm
 Design wavelength: 850nm

Minimum recommended beam diameter (FWHM): 2mm

DOE Specifications

| Parameters | Value |
|--|---------------|
| Field of View (FOV) | 59°x46° (HxV) |
| Aspect Ratio | 4:3 |
| Contrast ¹ (calculated by gray level) | ≧9 |
| Uniformity ² (calculated by gray level) | ≥50% |
| Zero Order | ≦0.3% |
| Substrate Material | PET, PMMA |

Notes:

- 1. Contrast: In the defined area, the ratio of the 95th percentile of the grayscale value over the mode grayscale value of the background, $C=l_{95\%}/l_{midian}$
- 2. Uniformity: The ratio of the grayscale value of the area at a given location to the grayscale value of the area in the center of the pattern, U=I_{each area}/I_{max of each area}

Ordering Information

| Part Number | Description |
|---------------------|---|
| DOE-RD10K850A-PET5 | Diffractive Optical Element DOE 10000-Dot Random Pattern (59°x46° at 850nm) – |
| | PET - Dia. 5mm x T. 0.188mm |
| DOE-RD10K850A-PMMA5 | Diffractive Optical Element DOE 10000-Dot Random Pattern (59°x46° at 850nm) – |
| | PMMA - Dia. 5mm x T. 1mm |

Note: Specifications are subject to change without notice.

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