>> DE-R 261 - Standard Diffractive Optical Element

Element Number: DE-R 261

Description: Dot Viewfinder (Dot Circle & Cross)

Material: Polycarbonate (PC)

Size (Ø x Thickness): 8 x 1.2 mm

Optimum Wavelength: 650 nm

(The element is usable with a range of wavelengths, but the following parameters will vary most with the wavelength: pattern size (see table 1) and intensity in the undiffracted central spot ('zero order', see table 2). At the optimum wavelength given on this datasheet, the element shows the same intensity in the central spot as in the off-axis spots.)

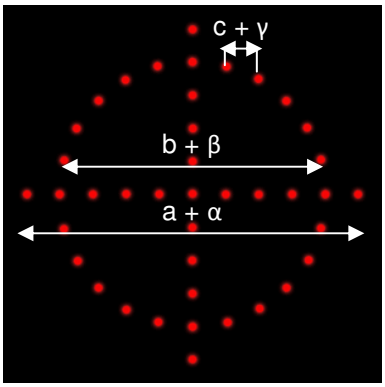
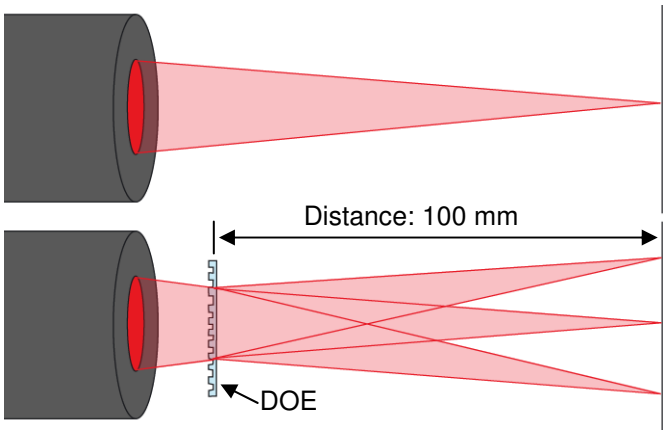


Table 1

Wavelength	Pattern Size @ 100 mm Distance			Pattern Angles		
	a	b	c	α	β	γ
488 nm	8.4 mm	6.7 mm	0.84 mm	4.8°	3.9°	0.48°
543 nm	9.4 mm	7.5 mm	0.94 mm	5.4°	4.3°	0.54°
594 nm	10.3 mm	8.2 mm	1.03 mm	5.9°	4.7°	0.59°
635 nm	11.0 mm	8.8 mm	1.10 mm	6.3°	5.0°	0.63°
650 nm	11.2 mm	9.0 mm	1.12 mm	6.4°	5.1°	0.64°
730 nm	12.6 mm	10.1 mm	1.26 mm	7.2°	5.8°	0.72°
780 nm	13.5 mm	10.8 mm	1.35 mm	7.7°	6.2°	0.77°
808 nm	14.0 mm	11.2 mm	1.40 mm	8.0°	6.4°	0.80°

Setup:



Diffraction Zero Order Intensity:

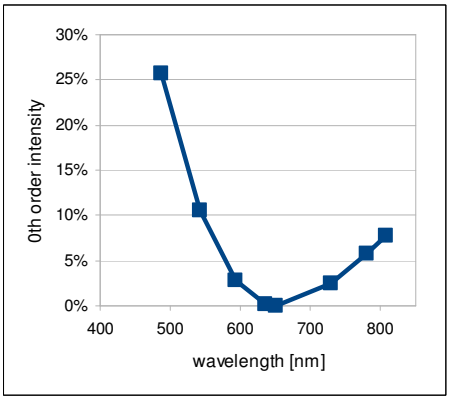


Table 2

Wavelength	0th Order Intensity
488	26%
543	11%
594	2.9%
635	0.3%
650	0.1%
730	2.5%
780	6%
808	8%