

>> DE-R 234 - Standard Diffractive Optical Element

Element Number: DE-R 234

Description: Viewfinder (Square)

Material: Polycarbonate (PC)

Size (\varnothing x Thickness): 8 x 1.2 mm

Optimum Wavelength: **594 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 lowest intensity in the central spot.)

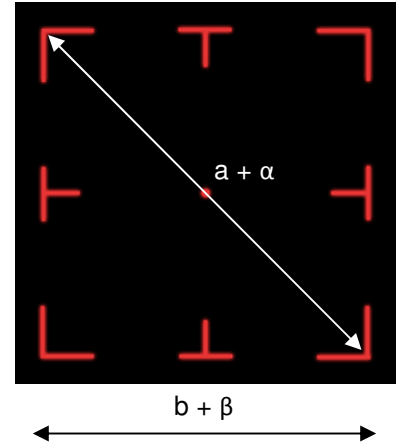
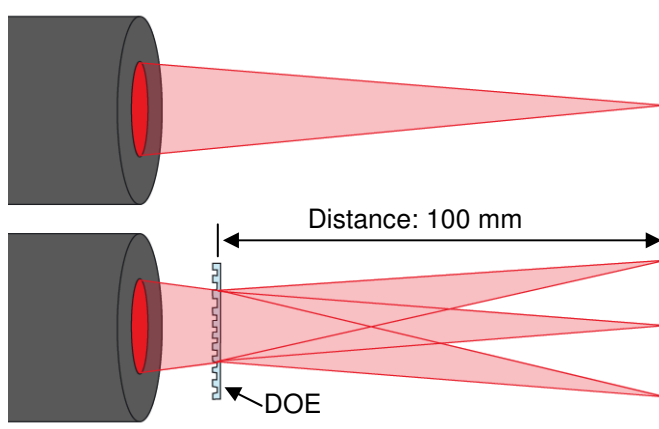


Table 1

Wavelength	Pattern Size @ 100 mm Distance		Pattern Angles	
	a	b	α	β
488 nm	64 mm	46 mm	35°	26°
543 nm	72 mm	51 mm	40°	29°
594 nm	80 mm	57 mm	43°	32°
635 nm	86 mm	61 mm	47°	34°
650 nm	89 mm	63 mm	48°	35°
730 nm	102 mm	71 mm	54°	39°
780 nm	111 mm	77 mm	58°	42°
808 nm	116 mm	80 mm	60°	44°

Setup:



Diffraction Zero Order Intensity:

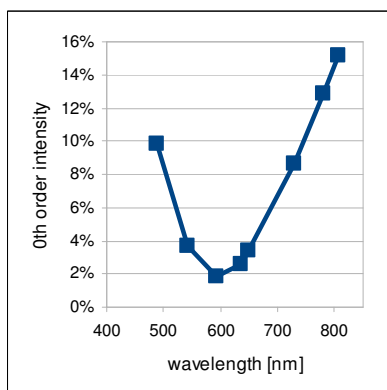


Table 2

Wavelength	0th Order Intensity
488	10%
543	3.7%
594	1.9%
635	2.6%
650	3.4%
730	9%
780	13%
808	16%