

LightMachinery

Test Report

1.0

Work order: 87627, SN D.1, D.3, D.4, D.5, D.6, F.1, F.2, F.3, F.5

Product Part Number: OP-7423-3371-5

Description: Etalon, Fused Silica, 450-530 nm, finesse >30, 1.0/cm FSR

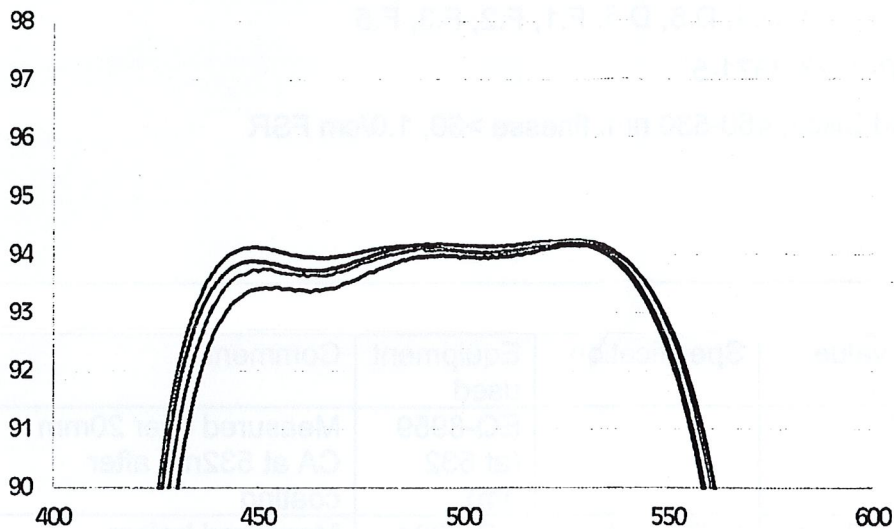
Date: Mar 28, 2019

2.0 Results

Test item	Measured value	Specification	Equipment used	Comment
Thickness uniformity (nm RMS)	≤ 1.1 nm RMS		EQ-8959 (at 532 nm)	Measured over 20mm CA at 532nm after coating
Absolute thickness	3.376 – 3.397 mm	3.371 \pm 0.3	EQ-4864	Measured before coating
Scratch/Dig	Pass	20/10	Visual inspection	D.1 small scratch but passes 20/10
Chamfers	Pass	All edges	Visual inspection	
Dimensions	25.36 mm	22.0 \pm 0.1 mm	Caliper	
Edge chips	Pass		Visual inspection	
Reflectivity	93.4-94.2	94.0 \pm 1.0%	EQ-3350	Coating curves attached
Calculated finesse	>33	>30		Calculated from measurements over 20mm CA
Calculated transmission	>68	>50%		Calculated from measurements over 20mm CA
Calculated FSR	1.0 /cm	1.0 /cm		Calculated from measurements

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Reflectivity curves (both sides):



Reviewed by: Jesse Dean
Jesse Dean