



# INSPECTION REPORT

CPO # 39-S139373  
PN # SEMD-O-EX1 RevA

ISP Optics ORDER CO- 102120 PO- 31887.1 Part ID: CAF2-L-10.0-1

Date 12-Jul-12

TYPE: Lens MATERIAL: CaF2

LOT # 50-CF-17141

LOT Qty: 2 TESTED Qty: 2

N	PARAMETER	SPECIFICATIONS			ACTUAL (MEASURED) DATA	
		NOM	Lower limit/Upper limit		1	2
1	Diameter, mm	10.000	9.975	10.000	9.980	9.990
2	Cylindricity, inch					
3	Center Thickness, mm	8.000	7.950	8.050	8.020	7.980
4	Full Thickness, inch					
5	Radius S1, mm	cx	30.6810	30.5260	30.7252	30.7195
6	SAG S1, inch					
7	Radius S2, mm	cc	9.6770	9.6626	9.6834	9.6778
8	SAG S2, inch					
9	Chamfer S1/S2, mm	0.500	0.000	0.500	0.30/0.30	0.30/0.30
10	Chamfer S1/S2 Leg, inch					
11	Clear Aperture S1/S2, inch		6.00/6.00		6.00/6.00	
12	TIR, mm		0.010		0.005	0.005
13	Circular Runout S1-OD, inch					
14	Circular Runout S2-OD, inch					
15	Circular Runout S2-Flat bevel S2, inch					
16	Wedge, min					
17	Flat Bevel Perpendicularity, mm					
18	Surface Quality S1, S/D		60/40		60/40	
19	Surface Roughness S1 RMS, nm		2		0.856	0.842
20	Flatness S1, fr./λ @ 633 nm					
21	Power S1, fr./λ @ 633 nm					
22	Irregularity S1, fr. @ 633 nm		0.50		0.33	0.18
23	Surface Quality S2, S/D		60/40		60/40	
24	Surface Roughness S2 RMS, nm		2		0.987	0.820
25	Flatness S2, fr./λ @ 633 nm					
26	Power S2, fr./λ @ 633 nm					
27	Irregularity S2, fr. @ 633 nm		0.50		0.22	0.28
28	TWD, fr./λ @ 633 nm					
29	Edge Chips out CA, mm					
30	Edge Finish					

QC Inspector Savastyuk/R-12-Jul-2012