LIGO-T1000383-v1																		
Polishing Quantity	10	10	9	6	3	3	2	4	47									
Type	ITM	ETM	CP	BS	FM	PR3	F-PR3	SR3		PR2	F-PR2	SR2	F-SR2	PRM	F-PRM	SRM	F-SRM	
Blank spec	E080031	E080047	E080037	E080035	E080045	E080041	E080041	E080041		E080039	E080039	E080040	E080040	E080028	E080028	E080029	E080029	
Blank Dwg	D080039	D080055	D080051	D080050	D080054	D080053	D080053	D080053		D080052	D080052	D080053	D080053	D080038	D080038	D080039	D080039	
Polish Spec	E080511	E080512	E080513	E080514	E080515	E080516	E080517	E080518		E080519	E080520	E080521	E080522	E080523	E080524	E080525	E080526	
Polish Dwg	D080657	D080658	D080659	D080660	D080661	D080662	D080663	D080664										
Serial Number	ITM XX	ETM XX	CPXX	BSXX	FMXX	PR3XX	F-PR3XX	SR3XX		PR2XX	F-PR2XX	SR2XX	F-SR2XX	PRMXX	F-PRMXX	SRMXX	F-SRMXX	
	Specifications for Optics with Large beam footprint								**Inspection Area for small RC optics -->**	**Specifications for Optics with Small Beam Footprint**								
Surface Quality																		
Max Scratches S1 inside 120mm (um^2)	20000	20000	500000	500000	500000 under 225	500000	500000	500000		62	62	250	62	62	62	62	250	20 ppm for the beam size
Max Scratches S1 outside 120mm (um^2)	500000	500000								240000	240000	240000	240000	240000	240000	240000	240000	
Max Scratches S2 inside 120mm (um^2)	240000	1000000	500000	500000	NS	NS	NS	NS		NS	NS	NS	NS	1900	1900	1900	1900	100 ppm for the beam size
									Inspection over 10mm -->									
Max Point Defects S1 Inside 120mm	10	10	50	50 over 255mm	50 over 255mm	50	50	50		0	0	0	0	0	0	0	0	
Max Point Defect Density S1 inside 120mm	1 per 4mm^2	1 per 4mm^2	5per 4mm^2	5per 4mm^2	5per 4mm^2	5per 4mm^2	5per 4mm^2	5per 4mm^2		1 per 4mm^2	1 per 4mm^2	1 per 4mm^2	1 per 4mm^2	1 per 4mm^2	1 per 4mm^2	1 per 4mm^2	1 per 4mm^2	
Max Point Defects S1 outside 120mm	100	100	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	
Max Point Defects inside 120 mm dia S2	100	100	50	50 over 255	NS	NS	NS	NS			NS	NS	NS	1	1	1	1	
Figure measured over 160mm (225mm for BS, FM)																		
S1 ROC (m)	1934	2245	Flat in tranx	Flat	Flat	34.00	31.80	34.00		-2.26	-1.56	-3.78	-2.49	9	10.4	-10.1	-71.1	
Tolerance (±m)	-5, +15	-5, +15	> | 300 Km |	> 300 Km cc, >1000 cx	> 300 Km cc, >1000 cx	0.17	0.16	0.17	Figure Measured over 30mm --> Source: DRD based onT080268-00	0.02	0.02	0.04	0.02	0.09	0.1	0.1	0.71	
S1 ROC tolerance goal	± 3	± 3	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	
S1 Astigmatism Max (nm)	3	3	8	8	8	30	30	30		15	15	15	15	15	15	15	15	
S2	Flat ref S1	Flat	NS	Flat	Flat	Flat	Flat	Flat		Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	
Tolerance (m)	relative to S1 ± 15	> | 7000|	NS	S1 > | 300 Km | in tranx	> | 7000|	> | 7000|	> | 7000|	> | 7000|		>7000	>7000	>7000	>7000	>7000	>7000	>7000	>7000	<---????
Mounting Flat Figure	<20 nm rms	< 20 nm rms	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	
Surface Error (-T, P, A) to 1mm-1																		
S1 over 300 mm dia max nm rms	2.5	2.5	4	3	3	3	3	3	60mm	NS	NS	NS	NS	NS	NS	NS	NS	Do we need this???
S1 over 160 mm dia max nm rms	0.3	0.3	2	2	2	2	2	2	30mm	2	2	2	2	2	2	2	2	
S2 over 300 mm dia max nm rms	4	40	4	4	40	40	40	40	60mm	40	40	40	40	NS	NS	NS	NS	
S2 over 160 mm dia max nm rms	2	NS	2	2	NS	NS	NS	NS	30mm	NS	NS	NS	NS	2	2	2	2	
HSF error (uroughness) 1 to 750/mm																		
S1 nm	0.16	0.16	0.3	0.3	0.3	0.3	0.3	0.3		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
S2 nm	0.5	2	0.3	0.5	NS	NS	NS	NS		NS	NS	NS	NS	2	2	2	2	
DRAWING PROPERTIES																		
Diameter mm	326	326	340	370	370	265	265	265		150	150	150	150	150	150	150	150	
Tolerance mm	± 0.2	± 0.2	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25		± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	
Thickness mm	200	200	130	60	60	101.4	101.4	101.4		75	75	75	75	75	75	75	75	
Tolerance mm	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5		± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5	
Wedge deg.T080078-05 10-3-08, T080277-03 12-3-08	0.07	0.07	0.04	0.05	0.05	0.6	0.6	0.6		2	2	2	2	2	2	2	2	
Tolerance deg.	-0, + 0.03	-0, + 0.03	-0.03 +0.04	-0, + 0.03	±0.08	±0.08	±0.08	±0.08		±0.08	±0.08	±0.08	±0.08	±0.08	±0.08	±0.08	±0.08	
Wedge orientation	V	V	H	H	H	V	V	V		V	V	V	V	V	V	V	V	
Clocking tolerance	± 5 deg	± 5 deg	± 5 deg	± 5 deg	± 5 deg	1 deg	1 deg	1 deg		1 deg	1 deg	1 deg	1 deg	1 deg	1 deg	1 deg	1 deg	