



Parts List	
REF	PARTS
1	Laser (Crystal Laser)
2	LB1 Beam Block (Thorlabs)
3	GL10-C26 Polarizer (Thorlabs)
4	Y1-1025-45-P (CVI)
5	f=100mm Lens (KPX094AR.33 Newport)
6	5104 Steering Mirror (New Focus)
7	ADM (1205C-843 Isomet)
8	BS1-1047-99-1025-45-P (CVI)
9	Iris
10	IR Photo Receiver (2033 New Focus)
11	Iris
12	f=500mm Lens (KPX118AR.33 Newport)

Notes:
 * Spot Sizes:
 1) At ADM < 300um
 2) At ETM ~ 1cm

* Align all optics after the ADM to the deflected rf beam.

* Be sure to dump ADMs transmitted beam (on iris, dump, etc.)

* 2k Layout is mirror image!

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN FEET (cm)							LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY				
		TOLERANCES:							4k Photon Calibrator Optical Layout				
		FRACTIONAL *	THREE PLACE DECIMAL *						CAR FILE LIGO-D040116-00-1				
		ANGULAR *	FINISHED SURFACE RING						SIZE C				
		ANGULAR * & BEND *	BREAK CORNERS IN						DWS NO. LIGO-D040116-00-1				
		TWO PLACE DECIMAL *	REMOVE ALL BURRS						SCALE not to scale				
XXX	XXX	MATERIAL:	HEAT TREAT:	FINISH:	REV	DESCRIPTION	DCN NUMBER	-	APPR'D	CHECK	DRWN	DATE	SHEET 1 OF 1
DWG. NO.	DESCRIPTION	USED ON: XXX	NEXT ASS'Y: XXX		ISSUE DESCRIPTION								
6	REFERENCE DRAWINGS	5		4	3	2	1						