



PUREOPTIK

— Burn For Challenge —



URE SENSOR
---PHOTOCHROMIC LENS---

SPIN PHOTOCHROMIC LENSES Semi-Finished Data

Welcome:



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SF Data-PureSensor Spin Photochromic Lens

Index:	1.499		Tooling Index:	1.530			
Abbe:	58		Design:	SPH			
Specific Gravity:	1.32		Available	* UC	* HC	* HMC	* SHMC

SF 1.499 DIA 70

Material refractive index=1.499

Diameter (mm)	Nominal	TRUE BASE		Radius		SAG AT 50		THICKNESS	
	FRONT	FRONT	BACK	FRONT	BACK	FRONT	BACK	CENTER	EDGE
70mm	Plano	0.03	5.70	26500.00	92.98	0.01	3.42	9.30	16.00
70mm	50	0.53	5.70	1000.00	92.98	0.31	3.42	10.20	16.00
70mm	150	1.56	5.70	339.74	92.98	0.92	3.42	11.00	16.00
70mm	200	2.17	5.70	244.24	92.98	1.28	3.42	11.50	16.00
70mm	300	2.99	5.70	177.26	92.98	1.77	3.42	9.30	12.50
70mm	400	3.69	5.70	143.63	92.98	2.19	3.42	9.10	11.50
70mm	500	4.81	5.70	110.19	92.98	2.87	3.42	11.80	13.00
70mm	600	5.90	5.70	89.83	92.98	3.55	3.42	8.20	8.00
70mm	700	6.90	5.70	76.81	92.98	4.18	3.42	9.00	7.50
70mm	800	7.97	5.70	66.50	92.98	4.88	3.42	9.60	7.00
70mm	900	8.95	5.70	59.22	92.98	5.54	3.42	11.20	7.50
70mm	1000	10.07	5.70	52.63	92.98	6.32	3.42	13.00	6.50

SF 1.499 DIA 75

Material refractive index=1.499

Diameter (mm)	Nominal	TRUE BASE		Radius		SAG AT 50		THICKNESS	
	FRONT	FRONT	BACK	FRONT	BACK	FRONT	BACK	CENTER	EDGE
75mm	Plano	0.00	5.70	26500.00	92.98	0.01	3.42	8.50	16.00
75mm	50	0.53	5.70	1000.00	92.98	0.31	3.42	9.00	16.00
75mm	100	1.00	5.70	530.00	92.98	0.59	3.42	9.80	16.00
75mm	200	1.98	5.70	267.68	92.98	1.17	3.42	11.00	16.00
75mm	300	2.98	5.70	177.85	92.98	1.77	3.42	9.20	13.00
75mm	400	3.99	5.70	132.83	92.98	2.37	3.42	10.50	13.00
75mm	500	5.00	5.70	106.00	92.98	2.99	3.42	12.00	13.00
75mm	600	6.02	5.70	88.04	92.98	3.62	3.42	9.00	8.00
75mm	700	6.90	5.70	76.81	92.98	4.18	3.42	9.00	7.50
75mm	800	8.05	5.70	65.84	92.98	4.93	3.42	11.00	7.00
75mm	900	8.92	5.70	59.42	92.98	5.52	3.42	13.00	7.50
75mm	1000	10.08	5.70	52.58	92.98	6.32	3.42	14.50	7.00



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SF Data-PureSensor Spin Photochromic Lens

Index:	1.550		Tooling Index:	1.530			
Abbe:	40		Design:	SPH			
Specific	1.28		Available Coating:	* UC	* HC	* HMC	* SHMC

SF 1.56 DIA 70

Material refractive index=1.550

Diameter (mm)	BASE	FRONT CURVE			SAG VALUE		BACK CURVE			CT	ET	RX RANGE
		RADIUS (mm)	(n=1.530)	(n=1.550)	(50mm)	(40mm)	RADIUS (mm)	(n=1.530)	(n=1.550)	(mm)	(mm)	Recommended (SPH)
70mm	0.50	1081.63	0.49	0.51	0.289	0.185	75.71	7.00	7.26	9.8	18.4	-8.25~-10.00
70mm	1.00	504.76	1.05	1.09	0.619	0.396	75.71	7.00	7.26	10.0	18.0	-5.25~-8.00
70mm	2.00	269.04	1.97	2.04	1.164	0.744	96.19	5.51	5.72	12.0	16.0	-3.25~-5.00
70mm	3.00	184.03	2.88	2.99	1.706	1.090	96.19	5.51	5.72	12.0	15.0	-2.00~-3.00
70mm	4.00	141.33	3.75	3.89	2.229	1.422	96.19	5.51	5.72	11.0	13.0	-2.00~+0.00
70mm	5.00	112.53	4.71	4.89	2.812	1.792	96.19	5.51	5.72	11.0	11.8	+0.25~+3.00
70mm	6.00	92.33	5.74	5.96	3.649	2.192	96.19	5.51	5.72	10.8	10.5	+3.25~+4.00
70mm	7.00	77.60	6.83	7.09	4.137	2.622	96.19	5.51	5.72	9.3	8.0	+4.25~+5.00
70mm	8.00	68.65	7.72	8.01	4.714	2.978	124.41	4.26	4.42	13.0	8.5	+5.25~+6.00
70mm	9.00	60.71	8.73	9.06	5.386	3.389	124.41	4.26	4.42	13.5	7.5	+6.25~+8.00
70mm	10.00	54.47	9.73	10.10	6.076	3.805	124.41	4.26	4.42	14.7	7.0	+8.25~+9.00

SF 1.56 DIA 75

Material refractive index=1.550

Diameter (mm)	BASE	FRONT CURVE			SAG VALUE		BACK CURVE			CT	ET	RX RANGE
		RADIUS (mm)	(n=1.530)	(n=1.550)	(50mm)	(40mm)	RADIUS (mm)	(n=1.530)	(n=1.550)	(mm)	(mm)	Recommended (SPH)
75mm	1.00	535.35	0.99	1.03	0.566	0.362	94.64	5.60	5.83	10.0	16.3	-5.25~-9.00
75mm	2.50	224.58	2.36	2.45	1.384	0.885	94.64	5.60	5.83	8.5	13.0	-2.25~-5.00
75mm	4.00	136.95	3.87	4.02	2.301	1.468	135.55	3.91	4.06	11.0	11.2	+2.00~-2.00
75mm	5.00	109.73	4.83	5.01	2.886	1.838	135.55	3.91	4.06	11.0	9.9	+2.25~+4.00
75mm	6.00	91.54	5.79	6.01	3.480	2.212	135.55	3.91	4.06	10.8	8.2	+4.25~+5.00
75mm	7.00	75.39	7.03	7.30	4.266	2.701	135.55	3.91	4.06	9.3	5.0	+5.25~+7.00



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SF Data-PureSensor Spin Photochromic Lens

Index:	1.597		Tooling Index:	1.530			
Abbe:	41		Design:	SPH			
Specific	1.3		Available	* UC	* HC	* HMC	* SHMC

SF 1.60 MR-8 DIA 75

Material refractive index=1.550, UV400+UV420

Diameter (mm)	BASE	FRONT CURVE			SAG 50 (mm)	SAG 40 (mm)	BACK CURVE		C.T* (mm)	E.T* (mm)
		1.60	1.53	Radius			Radius	CURV		
75mm	0.50	0.48	0.43	1230.98	0.25	0.16	69.88	8.50	7.3	16.1/17.4
75mm	1.00	1.10	0.98	543.26	0.58	0.37	82.50	8.50	6.0	13.6/15.0
75mm	2.00	2.15	1.90	278.25	1.13	0.72	69.88	8.50	6.5	13.7/15.0
75mm	3.00	3.14	2.78	190.42	1.65	1.05	69.88	6.00	6.0	13.2/14.0
75mm	4.00	4.32	3.83	138.35	2.28	1.45	99.00	6.00	8.6	10.5/10.9
75mm	5.00	5.28	4.69	113.10	2.80	1.78	82.50	7.20	7.0	9.7/10.5
75mm	6.00	6.29	5.58	94.97	3.35	2.13	82.50	7.20	7.0	8.1/8.4
75mm	7.00	7.16	6.36	83.34	3.84	2.44	99.00	6.00	8.7	7.3/7.1
75mm	8.00	8.05	7.15	74.12	4.34	2.75	99.00	6.00	9.3	6.4/6.0
75mm	9.00	8.95	7.95	66.68	4.86	3.07	99.00	6.00	9.3	6.0/5.3
75mm	10.25	10.34	9.18	57.73	5.69	3.58	108.00	6.00	13.8	7.9



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SF Data-PureSensor Spin Photochromic Lens

Index:	1.665		Tooling Index:	1.530			
Abbe:	31		Design:	SPH			
Specific	1.35		Available	* UC	* HC	* HMC	* SHMC

SF 1.67 MR-7 DIA 75

Material refractive index=1.665, UV400+UV420

Diameter (mm)	BASE	FRONT CURVE			SAG 50 (mm)	SAG 40 (mm)	BACK CURVE		C.T* (mm)	E.T* (mm)
		1.60	1.53	Radius			Radius	CURV		
75mm	0.50	0.48	0.38	2175.80	0.14	0.09	9.50	70.00	6.0	14.8/16.3
75mm	1.00	1.37	1.09	484.83	0.64	0.41	8.10	82.10	7.0	13.3/14.3
75mm	2.00	2.12	1.69	314.25	1.00	0.64	6.75	98.52	7.0	11.2/11.9
75mm	3.00	3.38	2.69	196.80	1.59	1.02	5.40	123.15	7.0	8.7/8.9
75mm	4.00	3.99	3.18	166.70	1.89	1.20	5.40	123.15	7.0	8.1/8.3
75mm	5.00	4.57	3.64	145.54	2.16	1.38	5.40	123.15	7.5	8.0/8.1
75mm	6.00	5.84	4.65	113.90	2.78	1.77	6.75	98.52	7.5	8.2/8.3
75mm	7.00	7.06	5.62	94.25	3.38	2.15	6.75	98.52	7.6/7.8	7.0
75mm	8.00	8.03	6.40	82.77	3.87	2.45	6.75	98.52	8.7/9.0	7.0
70mm	9.00	9.63	7.67	69.09	4.68	2.87	8.10	82.10	8.7	7.0
70mm	10.00	10.47	8.34	63.53	5.13	3.23	8.10	82.10	10.0	7.0



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SF Data-PureSensor Spin Photochromic Lens

Index:	1.591		Tooling Index:	1.530			
Abbe:	31		Design:	SPH			
Specific Gravity:	1.2		Available	* UC	* HC	* HMC	* SHMC

SF 1.591PC DIA 75

Material refractive index=1.591, UV400+UV420

Diameter	BASE	FRONT CURVE		BACK CURV	Front Radius	Back Radius	SAG 40 (mm)	SAG 50 (mm)	C.T.	E.T.	RX RANGE Recommended (SPH)
		1.53	1.59	1.53							
75mm	50	0.77	0.85	4.00	695.83	132.50	0.29	0.46	8.61	13.07	-9.25 to -12.00
75mm	150	1.76	1.95	6.25	301.13	84.8	0.66	1.04	6.00	12.31	-6.25 to -9.00
75mm	250	2.60	2.87	6.25	203.87	84.8	0.98	1.54	7.00	12.35	-4.25 to -6.00
75mm	350	3.66	4.05	6.25	144.81	84.8	1.39	2.17	6.50	10.10	-2.25 to -4.00
75mm	425	4.35	4.81	6.25	121.76	84.8	1.65	2.59	6.40	9.33	-2.00 to +2.00
75mm	525	5.34	5.91	6.42	99.10	82.55	2.04	3.21	7.50	9.00	-2.00 to +2.00
75mm	600	5.88	6.51	6.25	90.05	84.8	2.25	3.54	7.23	8.11	+2.25 to +4.00
75mm	750	7.38	8.17	7.41	71.82	72.00	2.84	4.50	10.86	10.00	+4.25 to +5.00
75mm	850	8.56	9.47	7.41	61.80	72.00	3.32	5.27	11.00	8.20	+5.25 to +8.00