

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P248501

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9479.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

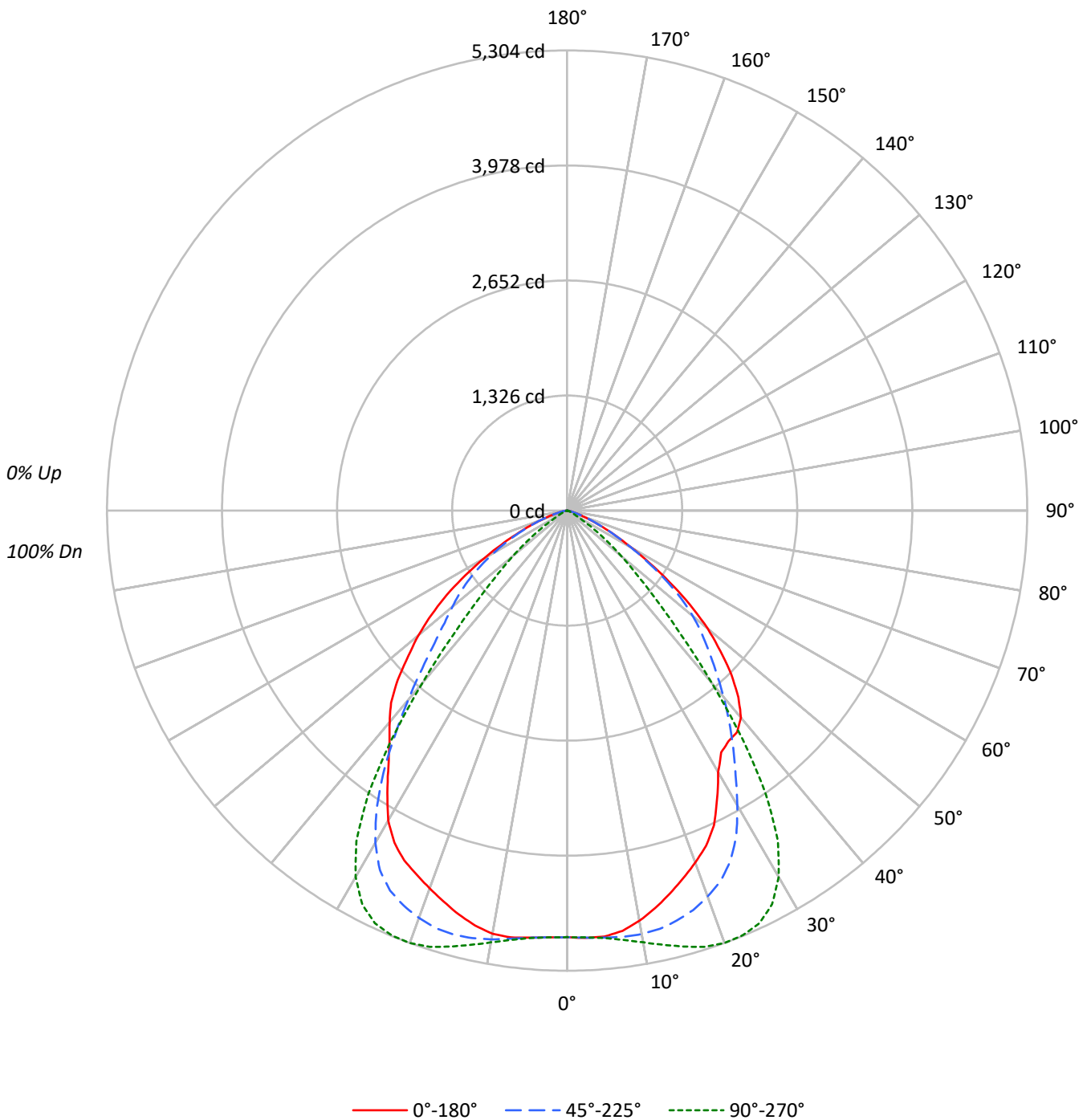
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	151634	151634	151634
5°	152536	153102	152941
10°	150295	158223	155120
15°	145903	166066	153900
20°	141667	174043	152030
25°	136229	178501	151326
30°	123975	173608	146839
35°	122129	150430	135101
40°	125451	104330	128076
45°	116785	63059	120427
50°	101299	38940	107310
55°	77739	20349	91067
60°	52958	8209	68734
65°	32944	4188	47420
70°	17888	2588	28941
75°	9329	1239	17109
80°	4173	1403	9270
85°	2795	920	8314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.9	5.0
10°-20°	1400.9	14.8
20°-30°	2137.2	22.5
30°-40°	2230.2	23.5
40°-50°	1675.2	17.7
50°-60°	1030.7	10.9
60°-70°	419.5	4.4
70°-80°	98.8	1.0
80°-90°	13.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4011.0	42.3
0°-40°	6241.2	65.8
0°-60°	8947.1	94.4
0°-90°	9479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9479.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4917	4917	4917	4917	4917	
5°	4928	4941	4946	4941	4941	466
15°	4570	4891	5202	5058	4821	1287
25°	4004	4453	5246	4831	4448	1820
35°	3244	3336	3996	3693	3589	2048
45°	2678	2318	1446	2159	2762	2043
55°	1446	1373	378	1373	1694	1300
65°	452	457	57	613	650	471
75°	78	78	10	138	144	94
85°	8	8	3	18	24	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4930.5	4922.6	4930.5	4930.5	4933.1	4927.8	4930.5	4933.1	4927.8	4927.8	4927.8
5°	4927.8	4922.6	4927.8	4925.2	4930.5	4930.5	4935.7	4935.7	4940.9	4940.9	4948.7
7.5°	4886.1	4875.7	4886.1	4893.9	4899.1	4909.6	4922.6	4933.1	4943.5	4954.0	4967.0
10°	4799.9	4799.9	4807.8	4823.4	4839.1	4857.3	4880.8	4907.0	4933.1	4956.5	4980.0
12.5°	4692.9	4685.1	4700.7	4721.6	4745.1	4773.9	4810.4	4849.5	4891.3	4938.3	4974.8
15°	4570.3	4562.4	4580.7	4601.6	4630.3	4672.1	4716.5	4768.6	4828.7	4891.3	4951.3
17.5°	4445.0	4442.3	4460.6	4489.4	4512.9	4557.2	4614.7	4677.2	4745.1	4828.7	4907.0
20°	4317.1	4314.5	4332.8	4356.3	4387.6	4429.3	4486.7	4559.8	4640.7	4734.7	4826.0
22.5°	4184.0	4186.6	4202.2	4228.3	4254.5	4298.8	4358.8	4431.9	4520.6	4622.4	4724.2
25°	4003.9	3990.8	4011.7	4037.8	4082.2	4118.7	4176.2	4254.5	4345.8	4452.8	4572.9
27.5°	3742.8	3740.2	3758.5	3782.0	3821.1	3865.5	3928.2	4009.1	4105.7	4223.1	4340.5
30°	3481.8	3487.1	3494.9	3518.4	3544.5	3588.9	3651.5	3719.4	3810.7	3922.9	4048.2
32.5°	3304.3	3304.3	3314.8	3330.5	3348.7	3372.2	3416.6	3466.2	3536.7	3615.0	3706.3
35°	3244.3	3233.9	3244.3	3246.9	3249.6	3254.8	3262.6	3278.3	3301.7	3335.7	3369.6
37.5°	3218.3	3210.4	3210.4	3200.0	3186.9	3171.3	3150.4	3126.9	3100.8	3066.8	3040.8
40°	3116.5	3111.2	3106.0	3095.6	3066.8	3035.5	3001.6	2946.8	2886.7	2803.2	2719.7
42.5°	2920.7	2915.5	2912.9	2892.0	2865.9	2829.3	2790.2	2732.8	2657.1	2550.0	2430.0
45°	2678.0	2667.5	2659.7	2641.4	2623.1	2591.8	2555.3	2503.0	2427.4	2317.8	2174.2
47.5°	2396.1	2390.8	2388.2	2380.4	2362.2	2343.8	2320.4	2278.6	2210.7	2106.3	1957.6
50°	2111.6	2101.1	2106.3	2103.8	2095.9	2082.9	2067.2	2038.5	1986.2	1892.3	1756.6
52.5°	1785.3	1785.3	1782.7	1790.5	1793.1	1790.5	1793.1	1761.8	1717.4	1646.9	1532.1
55°	1446.0	1446.0	1453.8	1464.3	1474.7	1477.3	1474.7	1461.7	1430.3	1372.9	1271.1
57.5°	1127.5	1122.4	1138.0	1153.6	1164.1	1174.5	1166.7	1156.3	1138.0	1091.0	1012.7
60°	858.7	858.7	869.1	879.6	890.0	900.5	897.9	895.3	879.6	848.2	785.7
62.5°	631.6	634.2	634.2	642.1	652.5	663.0	670.8	663.0	655.1	634.2	592.5
65°	451.5	448.9	451.5	459.4	467.2	477.6	482.9	480.3	472.4	456.8	425.5
67.5°	302.8	300.2	310.6	313.2	318.4	328.9	326.3	328.9	326.3	313.2	287.1
70°	198.4	193.1	198.4	195.7	203.6	206.2	211.4	214.0	211.4	203.6	195.7
72.5°	122.7	120.1	122.7	125.3	127.9	130.5	135.7	135.7	133.1	127.9	117.4
75°	78.3	70.4	73.1	67.9	73.1	73.1	78.3	80.9	78.3	78.3	73.1
77.5°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	49.6	52.2	47.0	44.4
80°	23.5	23.5	26.1	26.1	26.1	28.7	26.1	26.1	26.1	28.7	20.9
82.5°	18.3	15.6	15.6	15.6	18.3	15.6	15.6	15.6	15.6	15.6	15.6
85°	7.9	10.4	7.9	5.2	7.9	7.9	10.4	7.9	7.9	7.9	10.4
87.5°	2.6	2.6	0.0	0.0	0.0	2.6	0.0	2.6	2.6	5.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4930.5	4925.2	4925.2	4922.6	4927.8	4922.6	4925.2	4922.6	4922.6	4927.8	4922.6
5°	4948.7	4951.3	4946.1	4943.5	4951.3	4951.3	4951.3	4946.1	4946.1	4948.7	4946.1
7.5°	4974.8	4980.0	4982.6	4985.3	4990.5	4993.1	4993.1	4990.5	4987.9	4995.7	4985.3
10°	5003.5	5011.4	5027.0	5034.9	5047.9	5047.9	5053.1	5053.1	5047.9	5053.1	5050.5
12.5°	4993.1	5040.1	5066.2	5084.4	5102.7	5118.4	5123.6	5126.2	5123.6	5134.1	5123.6
15°	5011.4	5050.5	5092.3	5123.6	5157.5	5175.8	5181.0	5201.9	5207.1	5209.7	5194.1
17.5°	4982.6	5053.1	5097.5	5144.5	5194.1	5228.0	5259.3	5272.4	5275.0	5280.2	5259.3
20°	4917.4	4995.7	5063.6	5131.4	5188.9	5241.0	5267.2	5303.7	5293.3	5314.2	5285.4
22.5°	4828.7	4917.4	5003.5	5092.3	5152.3	5215.0	5269.8	5295.8	5308.9	5308.9	5277.6
25°	4687.7	4792.1	4886.1	4977.4	5068.8	5144.5	5207.1	5246.3	5254.1	5251.5	5215.0
27.5°	4468.5	4580.7	4690.3	4794.7	4907.0	4995.7	5068.8	5115.7	5128.8	5128.8	5089.7
30°	4165.7	4285.8	4392.8	4518.0	4632.9	4732.1	4833.9	4875.7	4899.1	4899.1	4854.8
32.5°	3805.5	3907.3	4006.5	4129.2	4254.5	4366.7	4463.2	4520.6	4549.4	4546.8	4507.6
35°	3414.0	3463.6	3539.3	3630.6	3742.8	3847.3	3941.2	3996.1	4045.6	4043.0	4006.5
37.5°	3022.4	3009.4	3017.3	3051.2	3121.6	3194.8	3267.8	3320.1	3361.8	3380.1	3372.2
40°	2638.8	2570.9	2505.7	2482.2	2487.4	2513.5	2552.7	2591.8	2638.8	2662.3	2672.7
42.5°	2294.3	2179.4	2064.5	1978.5	1928.8	1913.2	1931.5	1944.5	1973.2	2007.1	2041.1
45°	2017.6	1863.6	1712.2	1579.1	1495.6	1446.0	1435.5	1446.0	1461.7	1495.6	1540.0
47.5°	1790.5	1610.4	1440.8	1292.0	1169.3	1104.1	1085.8	1080.6	1096.2	1127.5	1187.6
50°	1589.5	1409.4	1221.5	1049.2	921.4	848.2	822.2	811.7	830.0	853.5	908.3
52.5°	1370.3	1192.8	999.7	832.6	699.5	623.8	595.1	579.4	589.9	621.2	676.0
55°	1132.8	968.3	793.5	621.2	493.3	422.8	388.9	378.5	388.9	422.8	477.6
57.5°	895.3	756.9	610.7	448.9	334.1	263.6	229.7	219.2	248.0	261.0	318.4
60°	699.5	587.3	462.0	328.9	229.7	174.9	140.9	133.1	146.2	169.6	216.6
62.5°	524.6	454.1	355.0	234.9	169.6	112.2	93.9	86.2	93.9	112.2	148.8
65°	381.1	326.3	248.0	172.2	114.8	83.5	62.7	57.4	65.3	78.3	109.7
67.5°	261.0	219.2	172.2	120.1	78.3	52.2	44.4	44.4	47.0	57.4	80.9
70°	169.6	143.6	109.7	78.3	52.2	39.1	33.9	28.7	33.9	41.8	54.8
72.5°	107.0	91.3	70.4	54.8	39.1	28.7	23.5	20.9	26.1	31.3	41.8
75°	65.3	49.6	36.5	28.7	20.9	20.9	20.9	10.4	13.0	20.9	26.1
77.5°	39.1	33.9	28.7	23.5	18.3	10.4	10.4	10.4	13.0	15.6	23.5
80°	20.9	18.3	13.0	13.0	10.4	7.9	10.4	7.9	5.2	13.0	15.6
82.5°	13.0	10.4	10.4	10.4	13.0	5.2	7.9	5.2	7.9	10.4	7.9
85°	7.9	7.9	7.9	5.2	13.0	5.2	5.2	2.6	2.6	5.2	5.2
87.5°	0.0	2.6	2.6	0.0	2.6	0.0	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4925.2	4922.6	4925.2	4922.6	4922.6	4922.6	4925.2	4925.2	4922.6	4922.6	4927.8
5°	4946.1	4946.1	4946.1	4943.5	4940.9	4940.9	4946.1	4946.1	4938.3	4946.1	4946.1
7.5°	4990.5	4982.6	4990.5	4980.0	4974.8	4977.4	4980.0	4974.8	4969.6	4972.2	4972.2
10°	5047.9	5040.1	5040.1	5032.3	5024.4	5019.2	5014.0	5000.9	4987.9	4985.3	4974.8
12.5°	5115.7	5102.7	5094.9	5079.2	5066.2	5047.9	5032.3	5011.4	4985.3	4967.0	4948.7
15°	5183.6	5162.7	5144.5	5118.4	5089.7	5058.3	5024.4	4990.5	4948.7	4912.2	4880.8
17.5°	5238.4	5209.7	5175.8	5134.1	5092.3	5045.3	4995.7	4946.1	4886.1	4839.1	4802.5
20°	5256.7	5215.0	5170.6	5115.7	5060.9	4995.7	4933.1	4867.8	4799.9	4750.4	4708.6
22.5°	5233.2	5183.6	5128.8	5071.4	4998.3	4927.8	4854.8	4779.0	4719.0	4651.2	4612.0
25°	5168.0	5107.9	5047.9	4980.0	4909.6	4831.3	4753.0	4674.7	4601.6	4565.0	4515.5
27.5°	5034.9	4969.6	4904.3	4833.9	4753.0	4674.7	4593.8	4518.0	4455.4	4405.8	4377.1
30°	4799.9	4724.2	4648.6	4572.9	4502.4	4421.5	4345.8	4283.1	4220.5	4181.3	4152.7
32.5°	4439.7	4371.9	4296.2	4223.1	4157.9	4090.0	4027.4	3972.6	3928.2	3902.1	3881.2
35°	3954.3	3886.4	3829.0	3776.8	3722.0	3693.3	3654.1	3622.8	3604.5	3594.1	3591.5
37.5°	3343.5	3304.3	3286.1	3275.7	3265.2	3257.4	3262.6	3275.7	3286.1	3304.3	3325.2
40°	2691.0	2724.9	2735.4	2771.9	2805.8	2850.2	2899.8	2957.2	3004.2	3064.2	3106.0
42.5°	2095.9	2158.6	2231.6	2309.9	2393.4	2474.4	2573.5	2664.9	2748.4	2824.1	2889.4
45°	1610.4	1707.0	1816.6	1928.8	2041.1	2158.6	2278.6	2390.8	2490.0	2570.9	2638.8
47.5°	1255.4	1362.5	1503.4	1641.8	1777.5	1915.8	2048.9	2166.3	2249.9	2328.2	2388.2
50°	994.4	1117.1	1271.1	1430.3	1579.1	1725.2	1866.2	1975.8	2059.4	2122.0	2166.3
52.5°	770.0	916.1	1072.7	1239.8	1399.0	1558.2	1688.7	1790.5	1858.4	1913.2	1947.1
55°	574.2	717.8	884.8	1057.1	1218.9	1372.9	1495.6	1584.3	1644.4	1675.7	1693.9
57.5°	415.0	545.5	712.5	884.8	1031.0	1177.1	1276.3	1357.2	1391.2	1409.4	1417.3
60°	302.8	422.8	571.6	720.4	858.7	976.2	1062.3	1117.1	1143.2	1153.6	1151.0
62.5°	221.9	326.3	454.1	579.4	691.7	788.2	856.1	892.6	905.7	910.9	903.1
65°	169.6	250.5	360.2	456.8	542.9	613.4	663.0	686.5	694.3	691.7	686.5
67.5°	125.3	188.0	268.9	341.9	404.6	459.4	485.5	506.4	511.6	503.8	495.9
70°	88.8	138.3	195.7	245.4	292.3	323.7	352.3	355.0	355.0	352.3	347.2
72.5°	62.7	96.6	133.1	167.1	195.7	219.2	229.7	237.5	234.9	232.3	227.1
75°	41.8	60.0	96.6	104.4	130.5	138.3	148.8	148.8	151.4	143.6	143.6
77.5°	26.1	41.8	57.4	67.9	78.3	88.8	93.9	93.9	96.6	93.9	93.9
80°	15.6	26.1	31.3	47.0	47.0	54.8	57.4	60.0	54.8	62.7	54.8
82.5°	10.4	15.6	23.5	23.5	28.7	33.9	33.9	36.5	36.5	33.9	33.9
85°	7.9	10.4	13.0	15.6	15.6	18.3	15.6	15.6	18.3	20.9	18.3
87.5°	2.6	5.2	2.6	5.2	5.2	10.4	7.9	7.9	7.9	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248501

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4917.4	4917.4	4917.4	4917.4
2.5°	4922.6	4925.2	4922.6	4922.6
5°	4946.1	4943.5	4946.1	4940.9
7.5°	4964.4	4964.4	4961.8	4961.8
10°	4964.4	4954.0	4954.0	4954.0
12.5°	4925.2	4912.2	4904.3	4899.1
15°	4857.3	4833.9	4823.4	4820.8
17.5°	4768.6	4747.7	4734.7	4726.9
20°	4666.8	4645.9	4630.3	4632.9
22.5°	4578.1	4554.6	4544.1	4538.9
25°	4489.4	4460.6	4452.8	4447.6
27.5°	4345.8	4330.1	4322.3	4314.5
30°	4126.5	4118.7	4105.7	4123.9
32.5°	3873.4	3860.3	3849.9	3857.7
35°	3594.1	3586.2	3594.1	3588.9
37.5°	3338.3	3346.1	3356.6	3361.8
40°	3137.3	3166.0	3176.5	3181.7
42.5°	2936.4	2970.3	2991.2	3004.2
45°	2688.4	2722.3	2745.8	2761.5
47.5°	2432.6	2461.3	2484.8	2482.2
50°	2200.3	2216.0	2226.4	2236.9
52.5°	1965.4	1965.4	1968.0	1968.0
55°	1699.2	1693.9	1691.3	1693.9
57.5°	1406.8	1401.6	1399.0	1391.2
60°	1140.6	1125.0	1114.5	1114.5
62.5°	892.6	874.4	866.6	864.0
65°	670.8	668.2	652.5	649.9
67.5°	485.5	475.0	464.6	467.2
70°	341.9	326.3	326.3	321.0
72.5°	221.9	214.0	211.4	211.4
75°	138.3	138.3	133.1	143.6
77.5°	91.3	91.3	88.8	91.3
80°	54.8	54.8	54.8	52.2
82.5°	33.9	36.5	33.9	33.9
85°	18.3	20.9	15.6	23.5
87.5°	10.4	13.0	10.4	13.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)