

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: P248429

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248429
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 EC8B1009730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8420.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

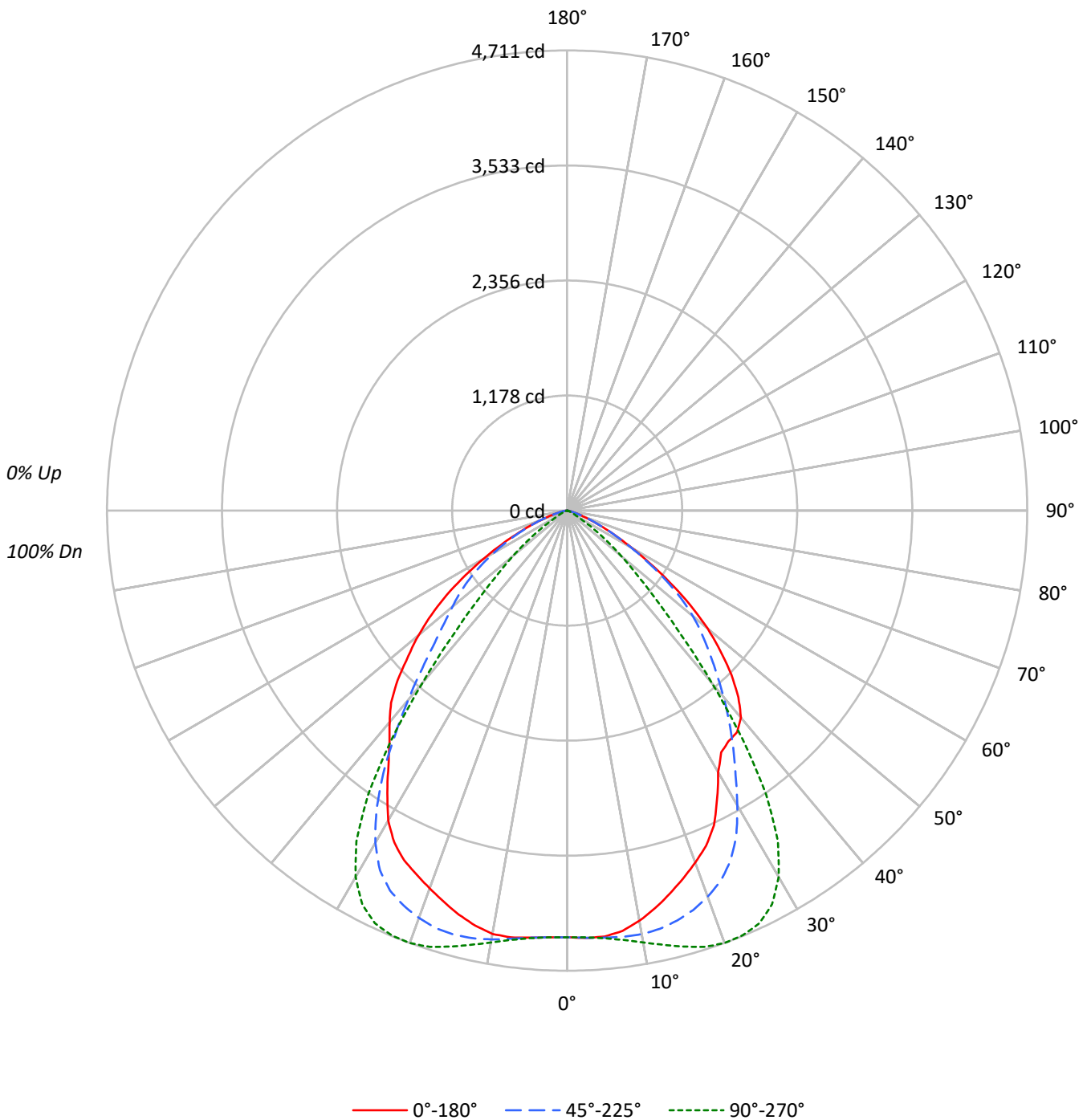
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	5.0
10°-20°	1244.4	14.8
20°-30°	1898.4	22.5
30°-40°	1981.1	23.5
40°-50°	1488.0	17.7
50°-60°	915.5	10.9
60°-70°	372.6	4.4
70°-80°	87.8	1.0
80°-90°	12.1	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°	3562.9	42.3
0°-40°	5544.0	65.8
0°-60°	7947.5	94.4
0°-90°	8420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8420.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4368	4368	4368	4368	4368	
5°	4377	4389	4394	4389	4389	414
15°	4060	4345	4621	4493	4282	1144
25°	3556	3955	4660	4292	3951	1617
35°	2882	2963	3550	3281	3188	1820
45°	2379	2059	1284	1917	2453	1815
55°	1284	1220	336	1220	1505	1155
65°	401	406	51	545	577	418
75°	70	70	9	123	128	84
85°	7	7	2	16	21	10
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°	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0
2.5°	4379.6	4372.7	4379.6	4379.6	4382.0	4377.3	4379.6	4382.0	4377.3	4377.3	4377.3
5°	4377.3	4372.7	4377.3	4375.0	4379.6	4379.6	4384.3	4384.3	4388.9	4388.9	4395.9
7.5°	4340.2	4331.0	4340.2	4347.2	4351.8	4361.1	4372.7	4382.0	4391.2	4400.5	4412.1
10°	4263.7	4263.7	4270.7	4284.5	4298.4	4314.7	4335.5	4358.8	4382.0	4402.8	4423.7
12.5°	4168.7	4161.7	4175.6	4194.1	4215.0	4240.5	4273.0	4307.8	4344.9	4386.5	4419.1
15°	4059.7	4052.7	4068.9	4087.5	4113.0	4150.1	4189.5	4235.9	4289.2	4344.9	4398.2
17.5°	3948.4	3946.0	3962.3	3987.8	4008.7	4048.0	4099.1	4154.7	4215.0	4289.2	4358.8
20°	3834.8	3832.5	3848.7	3869.6	3897.4	3934.5	3985.5	4050.4	4122.2	4205.8	4286.9
22.5°	3716.5	3718.8	3732.7	3755.9	3779.1	3818.5	3871.8	3936.8	4015.6	4106.0	4196.4
25°	3556.5	3545.0	3563.5	3586.7	3626.1	3658.5	3709.6	3779.1	3860.3	3955.3	4062.0
27.5°	3324.7	3322.4	3338.6	3359.5	3394.2	3433.7	3489.3	3561.2	3647.0	3751.3	3855.6
30°	3092.8	3097.5	3104.5	3125.3	3148.5	3187.9	3243.6	3303.9	3385.0	3484.7	3596.0
32.5°	2935.2	2935.2	2944.5	2958.4	2974.6	2995.5	3034.9	3078.9	3141.6	3211.1	3292.2
35°	2881.9	2872.6	2881.9	2884.2	2886.5	2891.2	2898.1	2912.0	2932.9	2963.0	2993.2
37.5°	2858.7	2851.7	2851.7	2842.5	2830.9	2817.0	2798.4	2777.5	2754.4	2724.2	2701.1
40°	2768.3	2763.6	2759.0	2749.7	2724.2	2696.4	2666.2	2617.6	2564.2	2490.0	2415.9
42.5°	2594.4	2589.8	2587.4	2568.9	2545.7	2513.2	2478.5	2427.5	2360.2	2265.2	2158.5
45°	2378.8	2369.5	2362.6	2346.3	2330.1	2302.3	2269.8	2223.4	2156.2	2058.8	1931.3
47.5°	2128.4	2123.7	2121.4	2114.5	2098.3	2082.0	2061.2	2024.0	1963.7	1871.0	1738.9
50°	1875.6	1866.4	1871.0	1868.7	1861.7	1850.2	1836.2	1810.7	1764.3	1680.9	1560.3
52.5°	1585.8	1585.8	1583.5	1590.5	1592.8	1590.5	1592.8	1565.0	1525.6	1462.9	1360.9
55°	1284.4	1284.4	1291.4	1300.7	1309.9	1312.3	1309.9	1298.4	1270.5	1219.5	1129.1
57.5°	1001.6	997.0	1010.9	1024.8	1034.1	1043.3	1036.3	1027.1	1010.9	969.1	899.6
60°	762.8	762.8	772.0	781.3	790.6	799.9	797.6	795.2	781.3	753.5	697.9
62.5°	561.1	563.4	563.4	570.4	579.6	588.9	595.8	588.9	581.9	563.4	526.3
65°	401.1	398.8	401.1	408.1	415.0	424.3	428.9	426.6	419.6	405.7	377.9
67.5°	269.0	266.6	275.9	278.2	282.9	292.2	289.8	292.2	289.8	278.2	255.1
70°	176.2	171.6	176.2	173.9	180.9	183.2	187.8	190.1	187.8	180.9	173.9
72.5°	109.0	106.7	109.0	111.3	113.6	115.9	120.6	120.6	118.2	113.6	104.3
75°	69.6	62.6	64.9	60.3	64.9	64.9	69.6	71.9	69.6	69.6	64.9
77.5°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	44.1	46.3	41.8	39.4
80°	20.9	20.9	23.2	23.2	23.2	25.5	23.2	23.2	23.2	25.5	18.6
82.5°	16.2	13.9	13.9	13.9	16.2	13.9	13.9	13.9	13.9	13.9	13.9
85°	7.0	9.2	7.0	4.7	7.0	7.0	9.2	7.0	7.0	7.0	9.2
87.5°	2.3	2.3	0.0	0.0	0.0	2.3	0.0	2.3	2.3	4.7	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°	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0
2.5°	4379.6	4375.0	4375.0	4372.7	4377.3	4372.7	4375.0	4372.7	4372.7	4377.3	4372.7
5°	4395.9	4398.2	4393.5	4391.2	4398.2	4398.2	4398.2	4393.5	4393.5	4395.9	4393.5
7.5°	4419.1	4423.7	4426.0	4428.3	4433.0	4435.3	4435.3	4433.0	4430.6	4437.6	4428.3
10°	4444.5	4451.5	4465.4	4472.4	4484.0	4484.0	4488.6	4488.6	4484.0	4488.6	4486.3
12.5°	4435.3	4477.0	4500.2	4516.4	4532.6	4546.5	4551.2	4553.5	4551.2	4560.5	4551.2
15°	4451.5	4486.3	4523.4	4551.2	4581.3	4597.5	4602.2	4620.7	4625.4	4627.7	4613.8
17.5°	4426.0	4488.6	4528.0	4569.7	4613.8	4643.9	4671.7	4683.4	4685.7	4690.3	4671.7
20°	4368.0	4437.6	4497.9	4558.2	4609.2	4655.5	4678.7	4711.2	4701.9	4720.5	4694.9
22.5°	4289.2	4368.0	4444.5	4523.4	4576.7	4632.4	4681.0	4704.2	4715.8	4715.8	4688.0
25°	4164.0	4256.8	4340.2	4421.3	4502.5	4569.7	4625.4	4660.2	4667.1	4664.8	4632.4
27.5°	3969.2	4068.9	4166.3	4259.1	4358.8	4437.6	4502.5	4544.2	4555.8	4555.8	4521.1
30°	3700.3	3806.9	3902.0	4013.3	4115.3	4203.4	4293.9	4331.0	4351.8	4351.8	4312.4
32.5°	3380.3	3470.8	3558.9	3667.8	3779.1	3878.8	3964.6	4015.6	4041.1	4038.8	4004.0
35°	3032.6	3076.6	3143.9	3225.0	3324.7	3417.4	3500.9	3549.6	3593.6	3591.3	3558.9
37.5°	2684.8	2673.2	2680.2	2710.3	2772.9	2837.8	2902.7	2949.1	2986.2	3002.5	2995.5
40°	2344.0	2283.7	2225.7	2204.9	2209.5	2232.7	2267.5	2302.3	2344.0	2364.9	2374.1
42.5°	2037.9	1935.9	1833.9	1757.4	1713.3	1699.4	1715.7	1727.2	1752.8	1782.9	1813.1
45°	1792.2	1655.4	1520.9	1402.7	1328.5	1284.4	1275.2	1284.4	1298.4	1328.5	1367.9
47.5°	1590.5	1430.5	1279.8	1147.6	1038.7	980.7	964.5	959.9	973.8	1001.6	1054.9
50°	1411.9	1252.0	1085.1	932.0	818.4	753.5	730.3	721.0	737.3	758.1	806.8
52.5°	1217.2	1059.5	888.0	739.6	621.4	554.1	528.6	514.7	524.0	551.8	600.5
55°	1006.2	860.1	704.8	551.8	438.2	375.6	345.4	336.2	345.4	375.6	424.3
57.5°	795.2	672.4	542.5	398.8	296.8	234.2	204.0	194.8	220.3	231.9	282.9
60°	621.4	521.7	410.4	292.2	204.0	155.3	125.2	118.2	129.9	150.7	192.4
62.5°	466.0	403.4	315.3	208.7	150.7	99.7	83.4	76.5	83.4	99.7	132.2
65°	338.5	289.8	220.3	153.0	102.0	74.2	55.7	51.0	58.0	69.6	97.4
67.5°	231.9	194.8	153.0	106.7	69.6	46.3	39.4	39.4	41.8	51.0	71.9
70°	150.7	127.5	97.4	69.6	46.3	34.8	30.1	25.5	30.1	37.1	48.7
72.5°	95.1	81.1	62.6	48.7	34.8	25.5	20.9	18.6	23.2	27.8	37.1
75°	58.0	44.1	32.4	25.5	18.6	18.6	18.6	9.2	11.6	18.6	23.2
77.5°	34.8	30.1	25.5	20.9	16.2	9.2	9.2	9.2	11.6	13.9	20.9
80°	18.6	16.2	11.6	11.6	9.2	7.0	9.2	7.0	4.7	11.6	13.9
82.5°	11.6	9.2	9.2	9.2	11.6	4.7	7.0	4.7	7.0	9.2	7.0
85°	7.0	7.0	7.0	4.7	11.6	4.7	4.7	2.3	2.3	4.7	4.7
87.5°	0.0	2.3	2.3	0.0	2.3	0.0	2.3	2.3	2.3	2.3	2.3
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°	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0	4368.0
2.5°	4375.0	4372.7	4375.0	4372.7	4372.7	4372.7	4375.0	4375.0	4372.7	4372.7	4377.3
5°	4393.5	4393.5	4393.5	4391.2	4388.9	4388.9	4393.5	4393.5	4386.5	4393.5	4393.5
7.5°	4433.0	4426.0	4433.0	4423.7	4419.1	4421.3	4423.7	4419.1	4414.4	4416.7	4416.7
10°	4484.0	4477.0	4477.0	4470.1	4463.1	4458.4	4453.8	4442.2	4430.6	4428.3	4419.1
12.5°	4544.2	4532.6	4525.7	4511.8	4500.2	4484.0	4470.1	4451.5	4428.3	4412.1	4395.9
15°	4604.5	4586.0	4569.7	4546.5	4521.1	4493.2	4463.1	4433.0	4395.9	4363.4	4335.5
17.5°	4653.2	4627.7	4597.5	4560.5	4523.4	4481.6	4437.6	4393.5	4340.2	4298.4	4266.0
20°	4669.4	4632.4	4592.9	4544.2	4495.5	4437.6	4382.0	4324.0	4263.7	4219.7	4182.5
22.5°	4648.6	4604.5	4555.8	4504.8	4439.9	4377.3	4312.4	4245.1	4191.8	4131.5	4096.8
25°	4590.6	4537.3	4484.0	4423.7	4361.1	4291.5	4222.0	4152.4	4087.5	4055.0	4011.0
27.5°	4472.4	4414.4	4356.4	4293.9	4222.0	4152.4	4080.5	4013.3	3957.7	3913.6	3888.1
30°	4263.7	4196.4	4129.2	4062.0	3999.4	3927.5	3860.3	3804.6	3749.0	3714.2	3688.7
32.5°	3943.7	3883.5	3816.2	3751.3	3693.4	3633.1	3577.4	3528.7	3489.3	3466.1	3447.6
35°	3512.5	3452.2	3401.2	3354.9	3306.1	3280.7	3245.9	3218.0	3201.8	3192.6	3190.2
37.5°	2970.0	2935.2	2919.0	2909.7	2900.4	2893.5	2898.1	2909.7	2919.0	2935.2	2953.7
40°	2390.4	2420.5	2429.8	2462.2	2492.4	2531.8	2575.9	2626.9	2668.6	2721.9	2759.0
42.5°	1861.7	1917.4	1982.3	2051.8	2126.0	2197.9	2286.0	2367.2	2441.4	2508.6	2566.6
45°	1430.5	1516.3	1613.7	1713.3	1813.1	1917.4	2024.0	2123.7	2211.8	2283.7	2344.0
47.5°	1115.2	1210.3	1335.5	1458.3	1578.9	1701.8	1820.0	1924.3	1998.5	2068.1	2121.4
50°	883.3	992.3	1129.1	1270.5	1402.7	1532.5	1657.7	1755.1	1829.3	1884.9	1924.3
52.5°	683.9	813.8	952.9	1101.3	1242.7	1384.1	1500.0	1590.5	1650.8	1699.4	1729.6
55°	510.1	637.6	786.0	939.0	1082.7	1219.5	1328.5	1407.3	1460.7	1488.5	1504.7
57.5°	368.6	484.6	632.9	786.0	915.8	1045.6	1133.7	1205.6	1235.7	1252.0	1258.9
60°	269.0	375.6	507.7	639.9	762.8	867.1	943.6	992.3	1015.5	1024.8	1022.4
62.5°	197.1	289.8	403.4	514.7	614.4	700.2	760.5	792.9	804.5	809.1	802.2
65°	150.7	222.6	320.0	405.7	482.3	544.8	588.9	609.8	616.7	614.4	609.8
67.5°	111.3	167.0	238.8	303.7	359.4	408.1	431.3	449.8	454.4	447.5	440.5
70°	78.9	122.9	173.9	218.0	259.7	287.5	313.0	315.3	315.3	313.0	308.4
72.5°	55.7	85.8	118.2	148.4	173.9	194.8	204.0	211.0	208.7	206.3	201.7
75°	37.1	53.3	85.8	92.8	115.9	122.9	132.2	132.2	134.4	127.5	127.5
77.5°	23.2	37.1	51.0	60.3	69.6	78.9	83.4	83.4	85.8	83.4	83.4
80°	13.9	23.2	27.8	41.8	41.8	48.7	51.0	53.3	48.7	55.7	48.7
82.5°	9.2	13.9	20.9	20.9	25.5	30.1	30.1	32.4	32.4	30.1	30.1
85°	7.0	9.2	11.6	13.9	13.9	16.2	13.9	13.9	16.2	18.6	16.2
87.5°	2.3	4.7	2.3	4.7	4.7	9.2	7.0	7.0	7.0	9.2	9.2
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: P248429

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4368.0	4368.0	4368.0	4368.0
2.5°	4372.7	4375.0	4372.7	4372.7
5°	4393.5	4391.2	4393.5	4388.9
7.5°	4409.8	4409.8	4407.4	4407.4
10°	4409.8	4400.5	4400.5	4400.5
12.5°	4375.0	4363.4	4356.4	4351.8
15°	4314.7	4293.9	4284.5	4282.2
17.5°	4235.9	4217.3	4205.8	4198.8
20°	4145.4	4126.9	4113.0	4115.3
22.5°	4066.6	4045.8	4036.5	4031.8
25°	3987.8	3962.3	3955.3	3950.7
27.5°	3860.3	3846.4	3839.4	3832.5
30°	3665.5	3658.5	3647.0	3663.2
32.5°	3440.6	3429.0	3419.8	3426.7
35°	3192.6	3185.6	3192.6	3187.9
37.5°	2965.4	2972.3	2981.6	2986.2
40°	2786.8	2812.3	2821.6	2826.2
42.5°	2608.3	2638.4	2657.0	2668.6
45°	2388.0	2418.2	2439.0	2453.0
47.5°	2160.8	2186.4	2207.2	2204.9
50°	1954.5	1968.4	1977.6	1986.9
52.5°	1745.8	1745.8	1748.1	1748.1
55°	1509.3	1504.7	1502.4	1504.7
57.5°	1249.6	1245.0	1242.7	1235.7
60°	1013.2	999.3	990.0	990.0
62.5°	792.9	776.7	769.8	767.4
65°	595.8	593.5	579.6	577.3
67.5°	431.3	422.0	412.7	415.0
70°	303.7	289.8	289.8	285.2
72.5°	197.1	190.1	187.8	187.8
75°	122.9	122.9	118.2	127.5
77.5°	81.1	81.1	78.9	81.1
80°	48.7	48.7	48.7	46.3
82.5°	30.1	32.4	30.1	30.1
85°	16.2	18.6	13.9	20.9
87.5°	9.2	11.6	9.2	11.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)