

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: P248330

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248330
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 EC8B100827 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10723.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

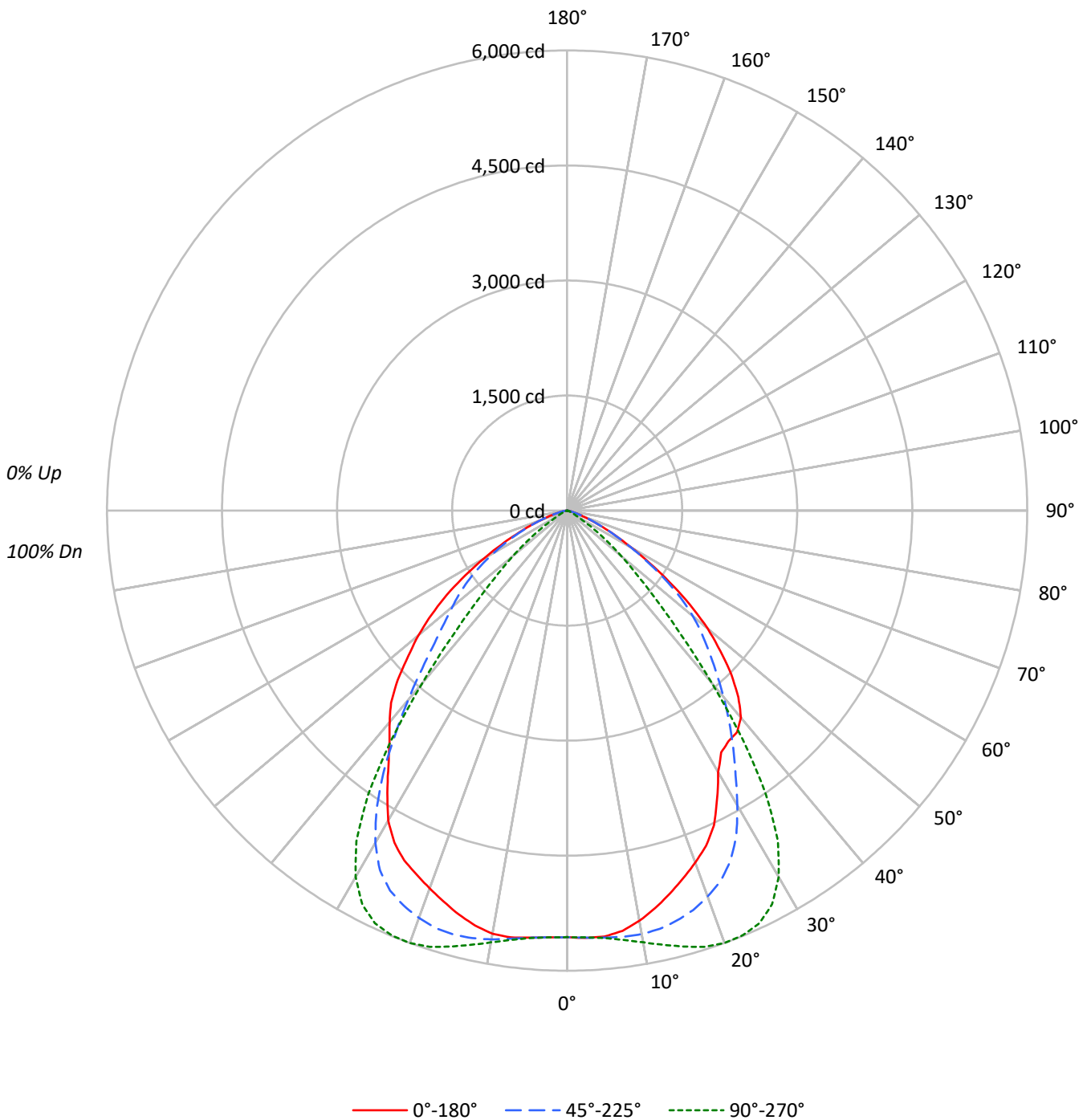
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	171533	171533	171533
5°	172557	173194	173012
10°	170021	178989	175476
15°	165051	187861	174098
20°	160260	196882	171982
25°	154105	201926	171185
30°	140248	196389	166109
35°	138158	170171	152832
40°	141915	118025	144882
45°	132110	71331	136231
50°	114593	44049	121390
55°	87938	23015	103018
60°	59909	9288	77757
65°	37270	4735	53644
70°	20232	2930	32746
75°	10556	1406	19349
80°	4724	1580	10477
85°	3149	1061	9411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	5.0
10°-20°	1584.8	14.8
20°-30°	2417.7	22.5
30°-40°	2522.9	23.5
40°-50°	1895.0	17.7
50°-60°	1166.0	10.9
60°-70°	474.5	4.4
70°-80°	111.8	1.0
80°-90°	15.4	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°	4537.4	42.3
0°-40°	7060.3	65.8
0°-60°	10121.3	94.4
0°-90°	10723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10723.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5563	5563	5563	5563	5563	
5°	5575	5589	5595	5589	5589	527
15°	5170	5533	5885	5722	5454	1456
25°	4529	5037	5935	5465	5031	2059
35°	3670	3774	4520	4178	4060	2317
45°	3029	2622	1636	2442	3124	2311
55°	1636	1553	428	1553	1916	1470
65°	511	517	65	694	735	533
75°	89	89	12	156	162	107
85°	9	9	3	21	27	12
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°	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7
2.5°	5577.5	5568.6	5577.5	5577.5	5580.5	5574.6	5577.5	5580.5	5574.6	5574.6	5574.6
5°	5574.6	5568.6	5574.6	5571.6	5577.5	5577.5	5583.4	5583.4	5589.3	5589.3	5598.2
7.5°	5527.3	5515.5	5527.3	5536.2	5542.1	5553.9	5568.6	5580.5	5592.3	5604.1	5618.8
10°	5429.9	5429.9	5438.7	5456.4	5474.1	5494.8	5521.4	5550.9	5580.5	5607.0	5633.6
12.5°	5308.8	5300.0	5317.7	5341.3	5367.9	5400.4	5441.7	5486.0	5533.2	5586.3	5627.7
15°	5170.1	5161.2	5181.8	5205.5	5238.0	5285.2	5335.4	5394.5	5462.4	5533.2	5601.1
17.5°	5028.3	5025.3	5046.0	5078.5	5105.1	5155.2	5220.3	5291.1	5367.9	5462.4	5550.9
20°	4883.7	4880.7	4901.4	4928.0	4963.4	5010.6	5075.6	5158.2	5249.7	5356.1	5459.4
22.5°	4733.0	4736.0	4753.7	4783.3	4812.8	4862.9	4930.9	5013.6	5113.9	5229.1	5344.2
25°	4529.3	4514.6	4538.2	4567.7	4617.9	4659.2	4724.2	4812.8	4916.1	5037.2	5173.0
27.5°	4234.0	4231.1	4251.8	4278.3	4322.6	4372.8	4443.7	4535.2	4644.5	4777.3	4910.2
30°	3938.8	3944.7	3953.6	3980.2	4009.6	4059.9	4130.7	4207.5	4310.8	4437.8	4579.5
32.5°	3738.0	3738.0	3749.8	3767.5	3788.2	3814.8	3865.0	3921.1	4000.8	4089.4	4192.7
35°	3670.1	3658.3	3670.1	3673.1	3676.0	3681.9	3690.8	3708.5	3735.0	3773.5	3811.8
37.5°	3640.6	3631.7	3631.7	3619.9	3605.1	3587.4	3563.8	3537.2	3507.8	3469.3	3439.8
40°	3525.5	3519.5	3513.6	3501.8	3469.3	3433.9	3395.5	3333.5	3265.6	3171.1	3076.7
42.5°	3304.0	3298.1	3295.1	3271.5	3242.0	3200.6	3156.3	3091.4	3005.8	2884.7	2748.9
45°	3029.4	3017.6	3008.7	2988.1	2967.4	2932.0	2890.6	2831.5	2745.9	2621.9	2459.5
47.5°	2710.5	2704.6	2701.6	2692.8	2672.2	2651.4	2624.9	2577.7	2500.9	2382.7	2214.5
50°	2388.7	2376.9	2382.7	2379.8	2371.0	2356.2	2338.5	2306.0	2246.9	2140.6	1987.1
52.5°	2019.6	2019.6	2016.7	2025.5	2028.4	2025.5	2028.4	1993.0	1942.8	1863.1	1733.2
55°	1635.7	1635.7	1644.6	1656.5	1668.2	1671.2	1668.2	1653.5	1618.0	1553.1	1437.9
57.5°	1275.5	1269.6	1287.3	1305.0	1316.9	1328.7	1319.8	1308.0	1287.3	1234.2	1145.6
60°	971.4	971.4	983.2	995.0	1006.8	1018.7	1015.7	1012.7	995.0	959.6	888.8
62.5°	714.5	717.5	717.5	726.4	738.1	750.0	758.8	750.0	741.1	717.5	670.2
65°	510.8	507.8	510.8	519.7	528.5	540.3	546.3	543.3	534.4	516.7	481.3
67.5°	342.5	339.6	351.3	354.3	360.2	372.1	369.1	372.1	369.1	354.3	324.8
70°	224.4	218.5	224.4	221.4	230.3	233.3	239.1	242.1	239.1	230.3	221.4
72.5°	138.8	135.8	138.8	141.7	144.7	147.6	153.5	153.5	150.6	144.7	132.9
75°	88.6	79.7	82.7	76.8	82.7	82.7	88.6	91.5	88.6	88.6	82.7
77.5°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	56.1	59.0	53.2	50.2
80°	26.6	26.6	29.5	29.5	29.5	32.5	29.5	29.5	29.5	32.5	23.6
82.5°	20.7	17.7	17.7	17.7	20.7	17.7	17.7	17.7	17.7	17.7	17.7
85°	8.9	11.8	8.9	5.9	8.9	8.9	11.8	8.9	8.9	8.9	11.8
87.5°	3.0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	3.0	5.9	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°	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7
2.5°	5577.5	5571.6	5571.6	5568.6	5574.6	5568.6	5571.6	5568.6	5568.6	5574.6	5568.6
5°	5598.2	5601.1	5595.2	5592.3	5601.1	5601.1	5601.1	5595.2	5595.2	5598.2	5595.2
7.5°	5627.7	5633.6	5636.5	5639.5	5645.4	5648.4	5648.4	5645.4	5642.5	5651.4	5639.5
10°	5660.2	5669.1	5686.8	5695.6	5710.4	5710.4	5716.3	5716.3	5710.4	5716.3	5713.3
12.5°	5648.4	5701.5	5731.0	5751.7	5772.4	5790.1	5796.0	5799.0	5796.0	5807.8	5796.0
15°	5669.1	5713.3	5760.6	5796.0	5834.4	5855.0	5860.9	5884.6	5890.5	5893.5	5875.8
17.5°	5636.5	5716.3	5766.4	5819.6	5875.8	5914.1	5949.5	5964.3	5967.3	5973.1	5949.5
20°	5562.7	5651.4	5728.1	5804.9	5869.8	5928.9	5958.4	5999.7	5988.0	6011.6	5979.1
22.5°	5462.4	5562.7	5660.2	5760.6	5828.5	5899.4	5961.4	5990.8	6005.7	6005.7	5970.2
25°	5302.9	5421.0	5527.3	5630.6	5734.0	5819.6	5890.5	5934.8	5943.7	5940.7	5899.4
27.5°	5054.9	5181.8	5305.9	5424.0	5550.9	5651.4	5734.0	5787.1	5801.9	5801.9	5757.6
30°	4712.4	4848.2	4969.3	5111.0	5240.9	5353.1	5468.3	5515.5	5542.1	5542.1	5491.9
32.5°	4304.9	4420.1	4532.3	4671.1	4812.8	4939.7	5049.0	5113.9	5146.4	5143.5	5099.2
35°	3862.0	3918.1	4003.8	4107.1	4234.0	4352.2	4458.4	4520.5	4576.6	4573.6	4532.3
37.5°	3419.1	3404.4	3413.3	3451.6	3531.3	3614.0	3696.7	3755.8	3803.0	3823.7	3814.8
40°	2985.1	2908.3	2834.5	2808.0	2813.8	2843.4	2887.7	2932.0	2985.1	3011.7	3023.5
42.5°	2595.4	2465.5	2335.5	2238.1	2182.0	2164.3	2184.9	2199.7	2232.2	2270.5	2309.0
45°	2282.4	2108.2	1936.9	1786.4	1691.9	1635.7	1623.9	1635.7	1653.5	1691.9	1742.1
47.5°	2025.5	1821.8	1629.9	1461.5	1322.8	1249.0	1228.3	1222.4	1240.1	1275.5	1343.4
50°	1798.1	1594.4	1381.8	1186.9	1042.3	959.6	930.1	918.2	938.9	965.5	1027.5
52.5°	1550.1	1349.3	1130.9	941.9	791.3	705.7	673.2	655.5	667.3	702.7	764.7
55°	1281.4	1095.4	897.6	702.7	558.0	478.3	439.9	428.1	439.9	478.3	540.3
57.5°	1012.7	856.3	690.9	507.8	377.9	298.2	259.8	248.0	280.5	295.3	360.2
60°	791.3	664.4	522.6	372.1	259.8	197.8	159.4	150.6	165.4	191.9	245.1
62.5°	593.5	513.7	401.5	265.7	191.9	126.9	106.3	97.5	106.3	126.9	168.3
65°	431.1	369.1	280.5	194.8	129.9	94.5	70.9	64.9	73.8	88.6	124.0
67.5°	295.3	248.0	194.8	135.8	88.6	59.0	50.2	50.2	53.2	64.9	91.5
70°	191.9	162.4	124.0	88.6	59.0	44.3	38.4	32.5	38.4	47.2	62.0
72.5°	121.1	103.3	79.7	62.0	44.3	32.5	26.6	23.6	29.5	35.4	47.2
75°	73.8	56.1	41.3	32.5	23.6	23.6	23.6	11.8	14.7	23.6	29.5
77.5°	44.3	38.4	32.5	26.6	20.7	11.8	11.8	11.8	14.7	17.7	26.6
80°	23.6	20.7	14.7	14.7	11.8	8.9	11.8	8.9	5.9	14.7	17.7
82.5°	14.7	11.8	11.8	11.8	14.7	5.9	8.9	5.9	8.9	11.8	8.9
85°	8.9	8.9	8.9	5.9	14.7	5.9	5.9	3.0	3.0	5.9	5.9
87.5°	0.0	3.0	3.0	0.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7	5562.7
2.5°	5571.6	5568.6	5571.6	5568.6	5568.6	5568.6	5571.6	5571.6	5568.6	5568.6	5574.6
5°	5595.2	5595.2	5595.2	5592.3	5589.3	5589.3	5595.2	5595.2	5586.3	5595.2	5595.2
7.5°	5645.4	5636.5	5645.4	5633.6	5627.7	5630.6	5633.6	5627.7	5621.8	5624.8	5624.8
10°	5710.4	5701.5	5701.5	5692.7	5683.8	5677.9	5672.0	5657.2	5642.5	5639.5	5627.7
12.5°	5787.1	5772.4	5763.6	5745.8	5731.0	5710.4	5692.7	5669.1	5639.5	5618.8	5598.2
15°	5863.9	5840.3	5819.6	5790.1	5757.6	5722.2	5683.8	5645.4	5598.2	5556.9	5521.4
17.5°	5925.9	5893.5	5855.0	5807.8	5760.6	5707.4	5651.4	5595.2	5527.3	5474.1	5432.8
20°	5946.6	5899.4	5849.2	5787.1	5725.1	5651.4	5580.5	5506.7	5429.9	5373.8	5326.5
22.5°	5920.0	5863.9	5801.9	5737.0	5654.3	5574.6	5491.9	5406.2	5338.3	5261.6	5217.3
25°	5846.2	5778.3	5710.4	5633.6	5553.9	5465.3	5376.8	5288.2	5205.5	5164.1	5108.1
27.5°	5695.6	5621.8	5548.0	5468.3	5376.8	5288.2	5196.6	5111.0	5040.2	4984.0	4951.6
30°	5429.9	5344.2	5258.6	5173.0	5093.3	5001.7	4916.1	4845.2	4774.4	4730.1	4697.6
32.5°	5022.4	4945.7	4860.0	4777.3	4703.6	4626.8	4555.9	4493.9	4443.7	4414.2	4390.5
35°	4473.2	4396.4	4331.5	4272.5	4210.4	4178.0	4133.7	4098.2	4077.6	4065.8	4062.8
37.5°	3782.3	3738.0	3717.3	3705.6	3693.7	3684.9	3690.8	3705.6	3717.3	3738.0	3761.6
40°	3044.2	3082.5	3094.4	3135.7	3174.1	3224.3	3280.4	3345.3	3398.4	3466.4	3513.6
42.5°	2371.0	2441.8	2524.5	2613.1	2707.6	2799.1	2911.3	3014.6	3109.1	3194.7	3268.5
45°	1821.8	1931.0	2055.0	2182.0	2309.0	2441.8	2577.7	2704.6	2816.8	2908.3	2985.1
47.5°	1420.2	1541.3	1700.7	1857.2	2010.7	2167.2	2317.8	2450.7	2545.1	2633.7	2701.6
50°	1124.9	1263.7	1437.9	1618.0	1786.4	1951.7	2111.1	2235.1	2329.6	2400.5	2450.7
52.5°	871.0	1036.4	1213.5	1402.5	1582.6	1762.7	1910.3	2025.5	2102.3	2164.3	2202.6
55°	649.6	812.0	1001.0	1195.8	1378.9	1553.1	1691.9	1792.3	1860.2	1895.6	1916.2
57.5°	469.5	617.1	806.0	1001.0	1166.3	1331.6	1443.8	1535.4	1573.7	1594.4	1603.3
60°	342.5	478.3	646.6	814.9	971.4	1104.3	1201.7	1263.7	1293.3	1305.0	1302.1
62.5°	251.0	369.1	513.7	655.5	782.4	891.7	968.5	1009.8	1024.6	1030.4	1021.6
65°	191.9	283.4	407.5	516.7	614.2	693.8	750.0	776.6	785.4	782.4	776.6
67.5°	141.7	212.6	304.2	386.8	457.7	519.7	549.2	572.8	578.7	569.9	561.0
70°	100.4	156.5	221.4	277.6	330.7	366.1	398.6	401.5	401.5	398.6	392.7
72.5°	70.9	109.2	150.6	189.0	221.4	248.0	259.8	268.7	265.7	262.8	256.9
75°	47.2	67.9	109.2	118.1	147.6	156.5	168.3	168.3	171.2	162.4	162.4
77.5°	29.5	47.2	64.9	76.8	88.6	100.4	106.3	106.3	109.2	106.3	106.3
80°	17.7	29.5	35.4	53.2	53.2	62.0	64.9	67.9	62.0	70.9	62.0
82.5°	11.8	17.7	26.6	26.6	32.5	38.4	38.4	41.3	41.3	38.4	38.4
85°	8.9	11.8	14.7	17.7	17.7	20.7	17.7	17.7	20.7	23.6	20.7
87.5°	3.0	5.9	3.0	5.9	5.9	11.8	8.9	8.9	8.9	11.8	11.8
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: P248330

CATALOG NUMBER: LSR8B100D010 EC8B100827 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5562.7	5562.7	5562.7	5562.7
2.5°	5568.6	5571.6	5568.6	5568.6
5°	5595.2	5592.3	5595.2	5589.3
7.5°	5615.9	5615.9	5612.9	5612.9
10°	5615.9	5604.1	5604.1	5604.1
12.5°	5571.6	5556.9	5548.0	5542.1
15°	5494.8	5468.3	5456.4	5453.5
17.5°	5394.5	5370.8	5356.1	5347.2
20°	5279.3	5255.7	5238.0	5240.9
22.5°	5178.9	5152.4	5140.5	5134.6
25°	5078.5	5046.0	5037.2	5031.3
27.5°	4916.1	4898.4	4889.5	4880.7
30°	4668.1	4659.2	4644.5	4665.1
32.5°	4381.7	4366.9	4355.1	4364.0
35°	4065.8	4056.9	4065.8	4059.9
37.5°	3776.4	3785.2	3797.1	3803.0
40°	3549.1	3581.5	3593.4	3599.2
42.5°	3321.7	3360.1	3383.7	3398.4
45°	3041.2	3079.6	3106.1	3123.9
47.5°	2751.8	2784.4	2810.9	2808.0
50°	2489.1	2506.8	2518.6	2530.4
52.5°	2223.3	2223.3	2226.3	2226.3
55°	1922.2	1916.2	1913.3	1916.2
57.5°	1591.4	1585.6	1582.6	1573.7
60°	1290.3	1272.6	1260.8	1260.8
62.5°	1009.8	989.1	980.3	977.3
65°	758.8	755.8	738.1	735.2
67.5°	549.2	537.4	525.6	528.5
70°	386.8	369.1	369.1	363.2
72.5°	251.0	242.1	239.1	239.1
75°	156.5	156.5	150.6	162.4
77.5°	103.3	103.3	100.4	103.3
80°	62.0	62.0	62.0	59.0
82.5°	38.4	41.3	38.4	38.4
85°	20.7	23.6	17.7	26.6
87.5°	11.8	14.7	11.8	14.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)