

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: P248348

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248348
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 EC8B100835 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11430.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

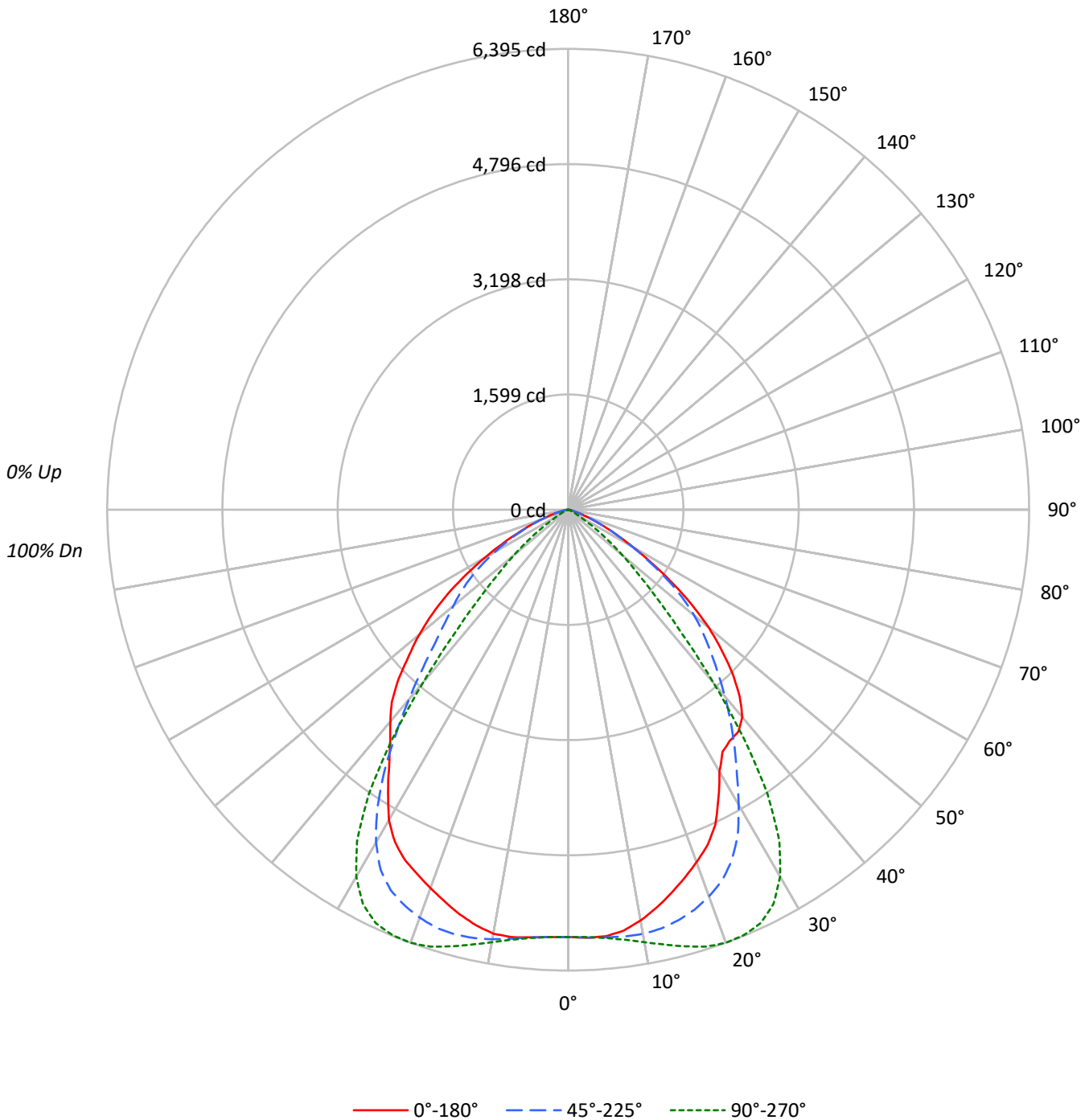
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	182844	182844	182844
5°	183932	184613	184418
10°	181231	190790	187045
15°	175931	200247	185575
20°	170827	209864	183323
25°	164265	215240	182471
30°	149495	209339	177061
35°	147268	181389	162905
40°	151270	125806	154434
45°	140823	76037	145214
50°	122148	46956	129392
55°	93739	24537	109813
60°	63862	9898	82882
65°	39729	5049	57175
70°	21566	3129	34901
75°	11247	1501	20624
80°	5025	1687	11170
85°	3361	1132	10013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.2	5.0
10°-20°	1689.2	14.8
20°-30°	2577.1	22.5
30°-40°	2689.2	23.5
40°-50°	2020.0	17.7
50°-60°	1242.8	10.9
60°-70°	505.8	4.4
70°-80°	119.2	1.0
80°-90°	16.4	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°	4836.6	42.3
0°-40°	7525.8	65.8
0°-60°	10788.6	94.4
0°-90°	11430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11430.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5930	5930	5930	5930	5930	
5°	5942	5958	5964	5958	5958	562
15°	5511	5898	6273	6099	5813	1552
25°	4828	5369	6326	5826	5363	2195
35°	3912	4022	4818	4453	4328	2470
45°	3229	2795	1744	2603	3330	2464
55°	1744	1656	456	1656	2043	1567
65°	544	551	69	740	784	568
75°	94	94	13	167	173	114
85°	10	10	3	22	28	13
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°	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5
2.5°	5945.3	5935.8	5945.3	5945.3	5948.4	5942.1	5945.3	5948.4	5942.1	5942.1	5942.1
5°	5942.1	5935.8	5942.1	5939.0	5945.3	5945.3	5951.6	5951.6	5957.8	5957.8	5967.3
7.5°	5891.7	5879.2	5891.7	5901.2	5907.5	5920.1	5935.8	5948.4	5961.0	5973.6	5989.3
10°	5787.9	5787.9	5797.3	5816.2	5835.1	5857.1	5885.4	5916.9	5948.4	5976.7	6005.0
12.5°	5658.9	5649.4	5668.3	5693.4	5721.8	5756.4	5800.5	5847.7	5898.1	5954.7	5998.8
15°	5510.9	5501.5	5523.5	5548.7	5583.3	5633.7	5687.2	5750.1	5822.5	5898.1	5970.4
17.5°	5359.8	5356.7	5378.7	5413.4	5441.7	5495.1	5564.5	5639.9	5721.8	5822.5	5916.9
20°	5205.7	5202.5	5224.5	5252.9	5290.6	5341.0	5410.2	5498.3	5595.9	5709.2	5819.4
22.5°	5045.1	5048.3	5067.1	5098.6	5130.1	5183.6	5256.0	5344.1	5451.1	5573.9	5696.6
25°	4827.9	4812.2	4837.4	4868.9	4922.4	4966.4	5035.7	5130.1	5240.2	5369.3	5514.1
27.5°	4513.2	4510.0	4532.1	4560.4	4607.6	4661.1	4736.7	4834.3	4950.7	5092.3	5233.9
30°	4198.5	4204.8	4214.3	4242.6	4274.0	4327.5	4403.1	4484.9	4595.1	4730.4	4881.5
32.5°	3984.5	3984.5	3997.1	4016.0	4038.0	4066.3	4119.8	4179.6	4264.6	4359.0	4469.2
35°	3912.1	3899.5	3912.1	3915.2	3918.4	3924.7	3934.1	3953.0	3981.3	4022.3	4063.2
37.5°	3880.6	3871.2	3871.2	3858.6	3842.8	3824.0	3798.8	3770.4	3739.0	3698.1	3666.6
40°	3757.9	3751.6	3745.3	3732.7	3698.1	3660.3	3619.4	3553.3	3480.9	3380.2	3279.5
42.5°	3521.9	3515.5	3512.4	3487.2	3455.7	3411.7	3364.5	3295.2	3204.0	3074.9	2930.1
45°	3229.2	3216.5	3207.1	3185.1	3163.0	3125.3	3081.2	3018.2	2927.0	2794.8	2621.7
47.5°	2889.2	2882.9	2879.8	2870.4	2848.3	2826.2	2798.0	2747.6	2665.8	2539.8	2360.5
50°	2546.2	2533.6	2539.8	2536.8	2527.3	2511.6	2492.6	2458.1	2395.1	2281.8	2118.1
52.5°	2152.7	2152.7	2149.6	2159.0	2162.2	2159.0	2162.2	2124.5	2070.9	1985.9	1847.5
55°	1743.6	1743.6	1753.0	1765.7	1778.2	1781.4	1778.2	1762.5	1724.7	1655.5	1532.7
57.5°	1359.6	1353.4	1372.2	1391.1	1403.7	1416.3	1406.8	1394.3	1372.2	1315.5	1221.1
60°	1035.5	1035.5	1048.0	1060.6	1073.2	1085.8	1082.7	1079.5	1060.6	1022.8	947.4
62.5°	761.6	764.8	764.8	774.3	786.8	799.4	808.8	799.4	790.0	764.8	714.4
65°	544.5	541.3	544.5	553.9	563.4	576.0	582.3	579.1	569.6	550.8	513.0
67.5°	365.1	361.9	374.5	377.7	384.0	396.6	393.4	396.6	393.4	377.7	346.2
70°	239.2	232.9	239.2	236.0	245.5	248.7	254.9	258.1	254.9	245.5	236.0
72.5°	147.9	144.8	147.9	151.1	154.2	157.3	163.6	163.6	160.5	154.2	141.6
75°	94.4	84.9	88.1	81.9	88.1	88.1	94.4	97.6	94.4	94.4	88.1
77.5°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	59.8	62.9	56.7	53.5
80°	28.3	28.3	31.5	31.5	31.5	34.7	31.5	31.5	31.5	34.7	25.2
82.5°	22.0	18.9	18.9	18.9	22.0	18.9	18.9	18.9	18.9	18.9	18.9
85°	9.5	12.6	9.5	6.3	9.5	9.5	12.6	9.5	9.5	9.5	12.6
87.5°	3.2	3.2	0.0	0.0	0.0	3.2	0.0	3.2	3.2	6.3	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°	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5
2.5°	5945.3	5939.0	5939.0	5935.8	5942.1	5935.8	5939.0	5935.8	5935.8	5942.1	5935.8
5°	5967.3	5970.4	5964.1	5961.0	5970.4	5970.4	5970.4	5964.1	5964.1	5967.3	5964.1
7.5°	5998.8	6005.0	6008.2	6011.3	6017.7	6020.8	6020.8	6017.7	6014.5	6024.0	6011.3
10°	6033.4	6042.8	6061.7	6071.2	6086.9	6086.9	6093.2	6093.2	6086.9	6093.2	6090.0
12.5°	6020.8	6077.4	6108.9	6130.9	6153.0	6171.8	6178.1	6181.3	6178.1	6190.8	6178.1
15°	6042.8	6090.0	6140.4	6178.1	6219.0	6241.1	6247.4	6272.6	6278.9	6282.0	6263.2
17.5°	6008.2	6093.2	6146.6	6203.3	6263.2	6304.1	6341.8	6357.6	6360.7	6367.0	6341.8
20°	5929.5	6024.0	6105.8	6187.6	6256.8	6319.8	6351.3	6395.3	6382.8	6407.9	6373.3
22.5°	5822.5	5929.5	6033.4	6140.4	6212.8	6288.3	6354.4	6385.8	6401.6	6401.6	6363.8
25°	5652.6	5778.5	5891.7	6001.9	6112.1	6203.3	6278.9	6326.1	6335.5	6332.4	6288.3
27.5°	5388.2	5523.5	5655.7	5781.6	5916.9	6024.0	6112.1	6168.7	6184.5	6184.5	6137.3
30°	5023.1	5167.9	5296.9	5447.9	5586.5	5706.1	5828.8	5879.2	5907.5	5907.5	5854.0
32.5°	4588.7	4711.5	4831.1	4979.0	5130.1	5265.4	5381.9	5451.1	5485.8	5482.6	5435.4
35°	4116.7	4176.4	4267.8	4377.9	4513.2	4639.1	4752.4	4818.5	4878.3	4875.1	4831.1
37.5°	3644.5	3628.8	3638.3	3679.2	3764.1	3852.3	3940.4	4003.4	4053.7	4075.8	4066.3
40°	3181.9	3100.1	3021.4	2993.1	2999.4	3030.9	3078.1	3125.3	3181.9	3210.3	3222.8
42.5°	2766.5	2628.0	2489.5	2385.7	2325.8	2307.0	2329.0	2344.7	2379.4	2420.2	2461.2
45°	2432.9	2247.2	2064.6	1904.1	1803.4	1743.6	1731.0	1743.6	1762.5	1803.4	1856.9
47.5°	2159.0	1941.9	1737.3	1557.9	1410.0	1331.3	1309.3	1303.0	1321.9	1359.6	1432.0
50°	1916.7	1699.5	1473.0	1265.2	1111.0	1022.8	991.4	978.8	1000.8	1029.2	1095.2
52.5°	1652.3	1438.3	1205.4	1004.0	843.5	752.2	717.6	698.7	711.3	749.1	815.1
55°	1365.9	1167.6	956.8	749.1	594.8	509.9	468.9	456.4	468.9	509.9	576.0
57.5°	1079.5	912.7	736.4	541.3	402.8	317.9	276.9	264.4	299.0	314.7	384.0
60°	843.5	708.2	557.1	396.6	276.9	210.9	170.0	160.5	176.3	204.5	261.2
62.5°	632.6	547.6	428.0	283.2	204.5	135.3	113.3	103.9	113.3	135.3	179.4
65°	459.5	393.4	299.0	207.7	138.5	100.7	75.5	69.2	78.7	94.4	132.2
67.5°	314.7	264.4	207.7	144.8	94.4	62.9	53.5	53.5	56.7	69.2	97.6
70°	204.5	173.1	132.2	94.4	62.9	47.2	40.9	34.7	40.9	50.4	66.1
72.5°	129.1	110.1	84.9	66.1	47.2	34.7	28.3	25.2	31.5	37.7	50.4
75°	78.7	59.8	44.0	34.7	25.2	25.2	25.2	12.6	15.7	25.2	31.5
77.5°	47.2	40.9	34.7	28.3	22.0	12.6	12.6	12.6	15.7	18.9	28.3
80°	25.2	22.0	15.7	15.7	12.6	9.5	12.6	9.5	6.3	15.7	18.9
82.5°	15.7	12.6	12.6	12.6	15.7	6.3	9.5	6.3	9.5	12.6	9.5
85°	9.5	9.5	9.5	6.3	15.7	6.3	6.3	3.2	3.2	6.3	6.3
87.5°	0.0	3.2	3.2	0.0	3.2	0.0	3.2	3.2	3.2	3.2	3.2
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°	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5	5929.5
2.5°	5939.0	5935.8	5939.0	5935.8	5935.8	5935.8	5939.0	5939.0	5935.8	5935.8	5942.1
5°	5964.1	5964.1	5964.1	5961.0	5957.8	5957.8	5964.1	5964.1	5954.7	5964.1	5964.1
7.5°	6017.7	6008.2	6017.7	6005.0	5998.8	6001.9	6005.0	5998.8	5992.5	5995.6	5995.6
10°	6086.9	6077.4	6077.4	6068.0	6058.5	6052.2	6046.0	6030.2	6014.5	6011.3	5998.8
12.5°	6168.7	6153.0	6143.6	6124.6	6108.9	6086.9	6068.0	6042.8	6011.3	5989.3	5967.3
15°	6250.5	6225.3	6203.3	6171.8	6137.3	6099.4	6058.5	6017.7	5967.3	5923.2	5885.4
17.5°	6316.6	6282.0	6241.1	6190.8	6140.4	6083.7	6024.0	5964.1	5891.7	5835.1	5791.0
20°	6338.6	6288.3	6234.8	6168.7	6102.6	6024.0	5948.4	5869.7	5787.9	5728.1	5677.7
22.5°	6310.4	6250.5	6184.5	6115.2	6027.1	5942.1	5854.0	5762.7	5690.3	5608.5	5561.3
25°	6231.7	6159.3	6086.9	6005.0	5920.1	5825.7	5731.3	5636.8	5548.7	5504.6	5444.9
27.5°	6071.2	5992.5	5913.8	5828.8	5731.3	5636.8	5539.3	5447.9	5372.5	5312.6	5278.1
30°	5787.9	5696.6	5605.3	5514.1	5429.1	5331.5	5240.2	5164.7	5089.2	5041.9	5007.4
32.5°	5353.5	5271.7	5180.5	5092.3	5013.7	4931.8	4856.3	4790.2	4736.7	4705.2	4680.0
35°	4768.2	4686.3	4617.1	4554.2	4488.0	4453.4	4406.2	4368.4	4346.4	4333.8	4330.7
37.5°	4031.7	3984.5	3962.4	3949.9	3937.3	3927.9	3934.1	3949.9	3962.4	3984.5	4009.6
40°	3244.9	3285.8	3298.4	3342.4	3383.3	3436.8	3496.7	3565.9	3622.5	3694.9	3745.3
42.5°	2527.3	2602.8	2690.9	2785.3	2886.1	2983.6	3103.2	3213.4	3314.1	3405.3	3484.1
45°	1941.9	2058.3	2190.5	2325.8	2461.2	2602.8	2747.6	2882.9	3002.5	3100.1	3181.9
47.5°	1513.8	1642.9	1812.9	1979.7	2143.3	2310.1	2470.6	2612.2	2713.0	2807.4	2879.8
50°	1199.1	1347.0	1532.7	1724.7	1904.1	2080.3	2250.3	2382.5	2483.2	2558.8	2612.2
52.5°	928.4	1104.7	1293.5	1495.0	1687.0	1878.9	2036.3	2159.0	2240.9	2307.0	2347.9
55°	692.4	865.5	1067.0	1274.7	1469.8	1655.5	1803.4	1910.4	1982.8	2020.6	2042.6
57.5°	500.4	657.8	859.2	1067.0	1243.2	1419.4	1539.0	1636.6	1677.5	1699.5	1709.0
60°	365.1	509.9	689.2	868.7	1035.5	1177.1	1281.0	1347.0	1378.5	1391.1	1387.9
62.5°	267.5	393.4	547.6	698.7	834.0	950.4	1032.3	1076.4	1092.1	1098.4	1089.0
65°	204.5	302.1	434.3	550.8	654.7	739.6	799.4	827.8	837.2	834.0	827.8
67.5°	151.1	226.6	324.2	412.3	487.9	553.9	585.4	610.6	616.8	607.4	598.0
70°	107.0	166.8	236.0	295.9	352.5	390.3	424.9	428.0	428.0	424.9	418.6
72.5°	75.5	116.4	160.5	201.5	236.0	264.4	276.9	286.4	283.2	280.1	273.8
75°	50.4	72.4	116.4	125.9	157.3	166.8	179.4	179.4	182.5	173.1	173.1
77.5°	31.5	50.4	69.2	81.9	94.4	107.0	113.3	113.3	116.4	113.3	113.3
80°	18.9	31.5	37.7	56.7	56.7	66.1	69.2	72.4	66.1	75.5	66.1
82.5°	12.6	18.9	28.3	28.3	34.7	40.9	40.9	44.0	44.0	40.9	40.9
85°	9.5	12.6	15.7	18.9	18.9	22.0	18.9	18.9	22.0	25.2	22.0
87.5°	3.2	6.3	3.2	6.3	6.3	12.6	9.5	9.5	9.5	12.6	12.6
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: P248348

CATALOG NUMBER: LSR8B100D010 EC8B100835 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5929.5	5929.5	5929.5	5929.5
2.5°	5935.8	5939.0	5935.8	5935.8
5°	5964.1	5961.0	5964.1	5957.8
7.5°	5986.2	5986.2	5983.0	5983.0
10°	5986.2	5973.6	5973.6	5973.6
12.5°	5939.0	5923.2	5913.8	5907.5
15°	5857.1	5828.8	5816.2	5813.0
17.5°	5750.1	5724.9	5709.2	5699.8
20°	5627.4	5602.2	5583.3	5586.5
22.5°	5520.3	5492.1	5479.4	5473.1
25°	5413.4	5378.7	5369.3	5363.0
27.5°	5240.2	5221.4	5211.9	5202.5
30°	4975.9	4966.4	4950.7	4972.7
32.5°	4670.6	4654.8	4642.3	4651.7
35°	4333.8	4324.4	4333.8	4327.5
37.5°	4025.4	4034.8	4047.5	4053.7
40°	3783.1	3817.7	3830.3	3836.5
42.5°	3540.7	3581.6	3606.8	3622.5
45°	3241.7	3282.6	3310.9	3329.9
47.5°	2933.3	2967.9	2996.2	2993.1
50°	2653.2	2672.1	2684.6	2697.2
52.5°	2369.9	2369.9	2373.0	2373.0
55°	2048.9	2042.6	2039.4	2042.6
57.5°	1696.4	1690.1	1687.0	1677.5
60°	1375.4	1356.5	1343.9	1343.9
62.5°	1076.4	1054.3	1044.9	1041.8
65°	808.8	805.7	786.8	783.6
67.5°	585.4	572.8	560.2	563.4
70°	412.3	393.4	393.4	387.1
72.5°	267.5	258.1	254.9	254.9
75°	166.8	166.8	160.5	173.1
77.5°	110.1	110.1	107.0	110.1
80°	66.1	66.1	66.1	62.9
82.5°	40.9	44.0	40.9	40.9
85°	22.0	25.2	18.9	28.3
87.5°	12.6	15.7	12.6	15.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)