

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: P250213

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10662.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

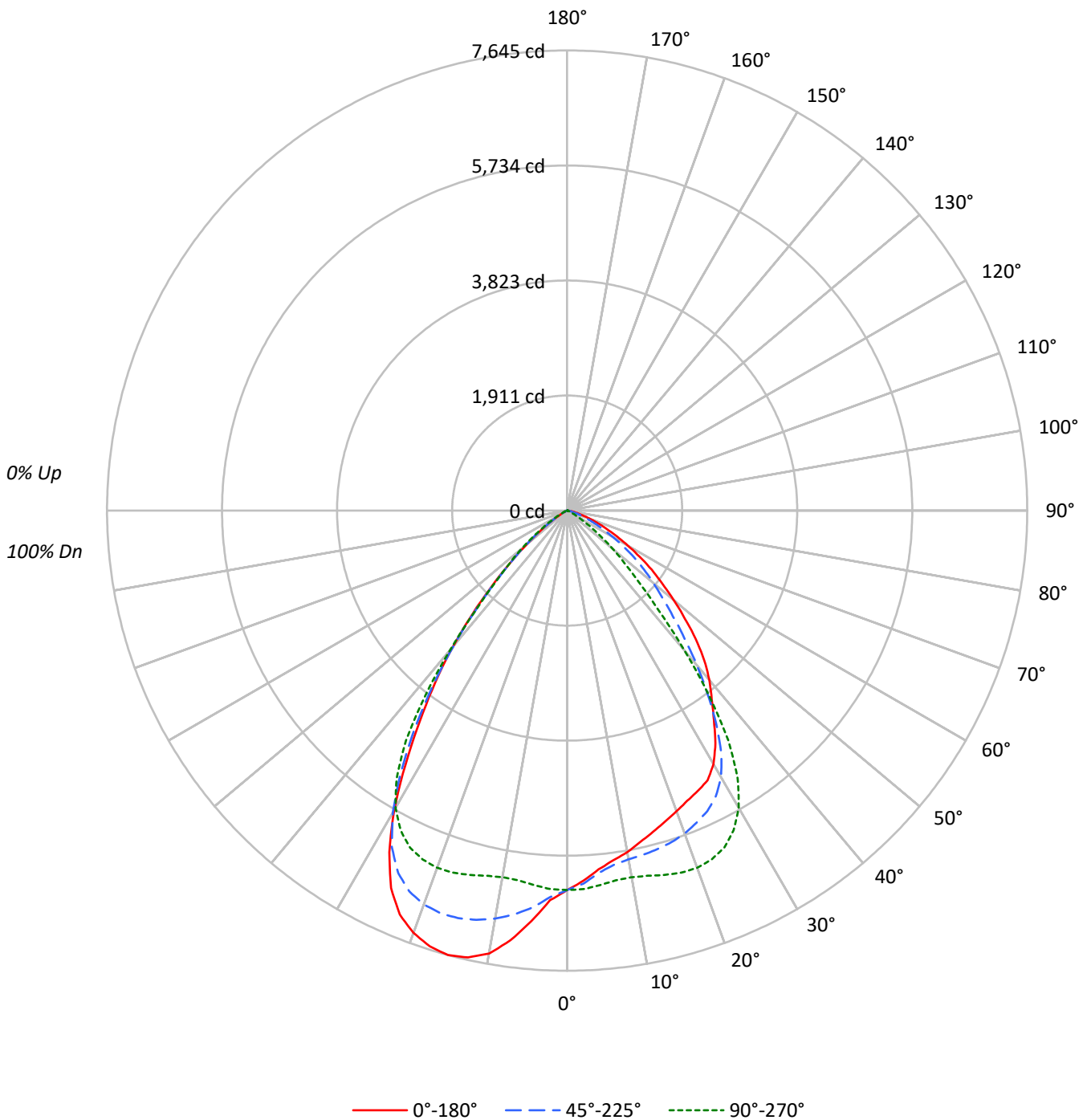
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	194408	194408	194408
5°	185211	193324	211930
10°	180432	193624	233935
15°	176342	200040	244057
20°	174400	207268	244973
25°	174809	210198	235454
30°	173187	202980	204764
35°	160033	175667	160251
40°	147881	121792	118830
45°	131682	73490	75928
50°	110803	47344	42964
55°	92179	25972	19644
60°	71947	11261	6180
65°	53097	5589	3006
70°	36920	3453	1325
75°	22470	703	0
80°	16213	1048	0
85°	10437	1026	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.1	5.7
10°-20°	1813.9	17.0
20°-30°	2777.8	26.1
30°-40°	2723.2	25.5
40°-50°	1639.9	15.4
50°-60°	754.8	7.1
60°-70°	265.2	2.5
70°-80°	69.4	0.7
80°-90°	11.8	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°	5197.8	48.8
0°-40°	7921.0	74.3
0°-60°	10315.7	96.8
0°-90°	10662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6304	6304	6304	6304	6304	
5°	5983	6039	6246	6620	6847	565
15°	5524	5821	6266	7009	7645	1561
25°	5138	5509	6178	6643	6920	2366
35°	4251	4310	4666	4398	4257	2662
45°	3020	2486	1685	1697	1741	2316
55°	1715	1358	483	380	365	1530
65°	728	504	77	38	41	741
75°	189	109	6	0	0	229
85°	30	15	3	0	0	40
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°	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5
2.5°	6157.1	6163.1	6163.1	6163.1	6174.8	6177.9	6174.8	6177.9	6183.7	6204.3	6213.2
5°	5983.4	5974.5	5980.5	5977.4	5992.2	6001.1	5995.1	6004.0	6024.6	6039.4	6054.1
7.5°	5859.7	5859.7	5859.7	5865.5	5874.4	5892.1	5889.1	5895.0	5915.6	5936.2	5956.8
10°	5762.4	5759.5	5759.5	5774.2	5786.0	5806.6	5812.5	5830.2	5856.6	5883.2	5906.7
12.5°	5635.7	5638.7	5653.4	5668.2	5694.6	5727.0	5744.7	5768.4	5809.6	5853.7	5880.3
15°	5523.8	5526.7	5538.6	5567.9	5600.4	5638.7	5676.9	5715.3	5765.3	5821.4	5868.5
17.5°	5414.8	5417.7	5426.5	5459.0	5500.3	5550.3	5594.5	5644.6	5709.4	5774.2	5833.1
20°	5314.6	5311.7	5326.4	5355.8	5409.0	5456.0	5500.3	5559.2	5629.9	5709.4	5777.1
22.5°	5217.4	5217.4	5232.2	5261.6	5308.8	5355.8	5403.0	5464.9	5535.5	5612.2	5691.7
25°	5137.8	5134.9	5155.5	5170.3	5205.6	5252.8	5302.9	5352.9	5423.6	5509.1	5585.6
27.5°	5052.4	5049.5	5052.4	5070.2	5102.5	5137.8	5176.1	5220.4	5279.3	5350.0	5423.6
30°	4863.9	4866.8	4866.8	4881.6	4899.3	4937.5	4958.1	5002.4	5055.4	5114.3	5179.2
32.5°	4584.0	4586.9	4586.9	4592.9	4607.5	4625.2	4642.9	4675.3	4716.6	4766.6	4825.6
35°	4251.2	4251.2	4248.1	4251.2	4260.0	4260.0	4274.7	4260.0	4280.6	4310.1	4354.2
37.5°	3944.7	3938.8	3933.0	3927.0	3918.2	3903.5	3882.9	3847.5	3838.6	3826.9	3829.8
40°	3673.7	3670.8	3653.1	3638.3	3608.8	3573.6	3523.5	3461.6	3411.5	3352.6	3302.5
42.5°	3373.2	3370.2	3355.5	3329.0	3296.6	3243.6	3164.1	3081.6	2981.4	2893.0	2801.7
45°	3019.6	3028.5	3007.9	2978.4	2940.1	2890.0	2801.7	2701.4	2601.3	2486.4	2371.5
47.5°	2651.4	2648.5	2633.8	2616.1	2583.7	2533.6	2474.7	2365.7	2259.6	2153.6	2035.7
50°	2309.7	2297.9	2291.9	2274.4	2253.8	2212.5	2150.6	2062.2	1967.9	1867.8	1758.8
52.5°	1985.6	1985.6	1970.8	1959.1	1941.4	1909.0	1856.0	1785.3	1705.8	1611.4	1496.6
55°	1714.6	1708.7	1694.0	1679.2	1661.5	1640.9	1593.9	1534.9	1449.4	1358.1	1258.0
57.5°	1425.9	1422.9	1417.1	1399.3	1390.5	1369.9	1316.9	1258.0	1184.4	1104.8	1022.2
60°	1166.6	1154.9	1143.0	1131.2	1116.6	1096.0	1060.5	1010.5	948.6	877.9	795.5
62.5°	933.9	951.5	916.2	916.2	886.8	869.1	836.7	807.2	742.4	677.6	606.9
65°	727.7	727.7	712.9	701.1	683.4	662.8	630.4	601.0	553.8	503.7	453.6
67.5°	556.8	553.8	539.1	527.4	512.6	500.8	477.3	441.9	406.6	365.4	324.0
70°	409.5	406.6	403.6	382.9	371.2	356.5	338.8	315.3	288.7	259.3	220.9
72.5°	294.5	294.5	285.8	277.0	265.2	253.3	235.7	220.9	197.4	176.8	150.2
75°	188.6	185.7	185.7	170.9	170.9	153.2	141.4	132.5	120.8	109.0	85.5
77.5°	135.6	132.5	129.6	123.7	117.9	111.9	103.1	91.3	82.5	70.7	61.8
80°	91.3	85.5	82.5	82.5	73.6	70.7	73.6	56.0	53.0	44.1	38.3
82.5°	56.0	56.0	53.0	53.0	50.1	47.2	38.3	38.3	35.4	32.4	26.6
85°	29.5	38.3	26.6	29.5	26.6	29.5	26.6	20.6	17.7	14.7	14.7
87.5°	17.7	11.8	11.8	17.7	14.7	11.8	11.8	11.8	8.9	5.9	5.9
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°	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5
2.5°	6207.3	6227.9	6224.9	6251.5	6260.3	6280.9	6280.9	6295.6	6304.5	6325.1	6342.8
5°	6060.0	6092.4	6101.2	6133.6	6160.2	6192.5	6213.2	6245.5	6275.0	6319.3	6360.5
7.5°	5968.7	5995.1	6012.8	6051.1	6080.6	6115.9	6151.3	6195.4	6236.7	6289.8	6348.7
10°	5924.4	5959.8	5986.3	6024.6	6060.0	6098.3	6133.6	6183.7	6230.9	6298.6	6363.4
12.5°	5912.7	5953.9	5986.3	6039.4	6074.7	6115.9	6157.1	6213.2	6263.2	6333.9	6407.7
15°	5912.7	5968.7	6012.8	6071.8	6113.0	6166.0	6210.2	6266.1	6322.2	6395.8	6466.5
17.5°	5900.9	5968.7	6024.6	6092.4	6145.4	6198.5	6254.4	6307.5	6366.3	6437.1	6516.5
20°	5853.7	5939.2	6006.9	6086.4	6142.5	6201.4	6257.4	6316.2	6378.2	6451.8	6519.6
22.5°	5771.3	5871.4	5948.1	6033.4	6098.3	6157.1	6213.2	6272.1	6339.9	6410.6	6481.3
25°	5662.3	5756.5	5839.1	5927.3	5992.2	6057.0	6110.1	6177.9	6239.7	6307.5	6363.4
27.5°	5497.2	5597.4	5676.9	5768.4	5827.2	5889.1	5933.3	5989.3	6048.2	6104.1	6148.4
30°	5249.9	5341.2	5423.6	5506.1	5565.0	5609.3	5656.3	5700.6	5738.9	5777.1	5815.4
32.5°	4887.4	4970.0	5049.5	5126.1	5173.2	5211.5	5246.8	5273.4	5294.0	5314.6	5317.5
35°	4389.6	4457.3	4507.4	4575.2	4619.4	4654.7	4654.7	4666.5	4663.6	4654.7	4645.9
37.5°	3832.8	3859.2	3879.9	3906.4	3909.3	3909.3	3891.7	3876.9	3853.4	3847.5	3829.8
40°	3252.5	3217.0	3190.5	3155.2	3134.6	3090.3	3052.1	3025.6	2987.3	2981.4	2975.5
42.5°	2701.4	2619.0	2545.4	2483.5	2412.8	2350.9	2295.0	2253.8	2224.3	2221.3	2224.3
45°	2253.8	2159.4	2050.4	1965.0	1885.5	1808.8	1735.2	1685.2	1658.6	1652.7	1658.6
47.5°	1914.9	1805.9	1699.8	1602.6	1517.2	1431.7	1358.1	1290.3	1258.0	1249.1	1246.2
50°	1646.8	1534.9	1422.9	1322.7	1228.5	1143.0	1051.7	986.9	945.7	930.9	919.2
52.5°	1384.7	1284.5	1169.6	1066.5	972.1	872.0	777.8	704.0	662.8	645.2	633.3
55°	1154.9	1054.7	948.6	848.5	748.3	648.1	553.8	483.1	439.0	418.3	403.6
57.5°	922.1	827.8	736.5	636.4	553.8	456.7	362.3	300.5	262.2	238.6	226.9
60°	712.9	639.3	559.7	477.3	397.7	318.2	241.6	182.6	153.2	135.6	120.8
62.5°	539.1	477.3	424.2	353.5	291.6	223.8	165.0	117.9	91.3	76.6	70.7
65°	388.9	341.7	294.5	250.4	206.3	156.2	111.9	76.6	53.0	44.1	41.2
67.5°	277.0	238.6	203.2	173.8	141.4	111.9	79.5	53.0	41.2	35.4	32.4
70°	194.4	165.0	141.4	115.0	94.2	73.6	61.8	38.3	23.5	26.6	20.6
72.5°	129.6	109.0	97.3	79.5	64.8	53.0	38.3	26.6	26.6	20.6	17.7
75°	70.7	64.8	50.1	38.3	32.4	29.5	11.8	5.9	2.9	8.9	2.9
77.5°	50.1	44.1	38.3	32.4	26.6	20.6	11.8	11.8	8.9	11.8	5.9
80°	32.4	26.6	23.5	23.5	14.7	8.9	5.9	5.9	8.9	2.9	2.9
82.5°	20.6	17.7	14.7	14.7	14.7	8.9	8.9	8.9	8.9	5.9	5.9
85°	11.8	8.9	5.9	5.9	2.9	5.9	0.0	2.9	2.9	0.0	0.0
87.5°	5.9	2.9	2.9	2.9	2.9	0.0	0.0	2.9	0.0	2.9	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5	6304.5
2.5°	6354.5	6366.3	6381.1	6392.9	6419.4	6425.2	6437.1	6448.9	6457.7	6466.5	6469.5
5°	6395.8	6440.0	6481.3	6525.4	6581.4	6619.7	6663.9	6702.2	6740.5	6772.9	6796.4
7.5°	6407.7	6475.3	6537.3	6613.8	6696.3	6767.1	6840.7	6914.3	6990.9	7049.9	7099.9
10°	6431.2	6513.6	6593.2	6684.5	6790.6	6884.8	6976.1	7073.4	7170.6	7253.1	7326.8
12.5°	6472.4	6563.7	6649.2	6749.4	6858.4	6964.4	7064.5	7173.5	7276.7	7368.0	7450.5
15°	6540.2	6625.6	6708.1	6802.4	6911.4	7008.6	7108.8	7214.8	7318.0	7412.2	7488.8
17.5°	6584.3	6663.9	6746.3	6831.8	6923.1	7011.5	7105.8	7200.1	7294.3	7379.8	7450.5
20°	6584.3	6661.0	6722.8	6799.4	6884.8	6961.5	7038.1	7120.5	7203.0	7273.7	7341.5
22.5°	6531.3	6604.9	6652.1	6711.1	6784.7	6849.5	6890.8	6982.1	7043.9	7105.8	7155.8
25°	6407.7	6460.6	6499.0	6540.2	6599.1	6643.3	6678.7	6731.7	6793.5	6817.2	6852.4
27.5°	6183.7	6222.0	6242.6	6251.5	6280.9	6304.5	6310.4	6333.9	6360.5	6366.3	6381.1
30°	5830.2	5833.1	5824.3	5821.4	5806.6	5789.0	5786.0	5783.0	5771.3	5759.5	5762.4
32.5°	5296.9	5282.2	5246.8	5208.6	5170.3	5129.1	5105.4	5076.0	5058.3	5040.7	5020.1
35°	4607.5	4572.3	4522.2	4475.0	4430.9	4398.4	4345.4	4327.7	4310.1	4286.4	4280.6
37.5°	3797.4	3776.8	3729.6	3694.3	3670.8	3656.0	3629.5	3611.9	3611.9	3603.0	3597.1
40°	2960.7	2954.9	2937.2	2946.0	2934.3	2940.1	2937.2	2931.2	2946.0	2946.0	2952.0
42.5°	2221.3	2224.3	2233.1	2239.0	2256.7	2259.6	2274.4	2274.4	2283.2	2291.9	2297.9
45°	1652.7	1664.5	1664.5	1676.3	1694.0	1696.9	1702.7	1705.8	1711.6	1726.4	1732.2
47.5°	1240.3	1243.2	1243.2	1246.2	1252.0	1258.0	1255.0	1258.0	1266.8	1260.9	1266.8
50°	916.2	919.2	910.3	901.5	910.3	910.3	907.4	898.5	907.4	895.6	901.5
52.5°	624.6	621.6	612.7	615.8	609.8	606.9	606.9	601.0	601.0	601.0	589.2
55°	394.8	394.8	388.9	388.9	386.0	380.0	377.1	374.1	371.2	368.3	368.3
57.5°	220.9	223.8	215.1	212.1	215.1	212.1	206.3	206.3	206.3	197.4	203.2
60°	120.8	117.9	115.0	111.9	109.0	111.9	111.9	106.1	106.1	106.1	109.0
62.5°	64.8	64.8	61.8	61.8	58.9	58.9	64.8	56.0	58.9	56.0	58.9
65°	35.4	44.1	32.4	32.4	41.2	38.3	35.4	35.4	38.3	32.4	35.4
67.5°	38.3	26.6	23.5	26.6	23.5	23.5	23.5	29.5	26.6	20.6	26.6
70°	17.7	20.6	20.6	14.7	23.5	11.8	20.6	11.8	17.7	14.7	17.7
72.5°	17.7	17.7	17.7	11.8	17.7	11.8	14.7	14.7	11.8	11.8	17.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	5.9	2.9	2.9	2.9	2.9	5.9	5.9	5.9	0.0	2.9
80°	5.9	5.9	0.0	2.9	0.0	0.0	2.9	0.0	2.9	0.0	5.9
82.5°	2.9	5.9	2.9	2.9	5.9	5.9	5.9	2.9	2.9	2.9	2.9
85°	0.0	2.9	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	2.9
87.5°	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.9	0.0	0.0	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





TEST NUMBER: P250213

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6304.5	6304.5	6304.5	6304.5
2.5°	6472.4	6475.3	6481.3	6478.4
5°	6814.1	6837.8	6849.5	6846.6
7.5°	7135.2	7176.6	7200.1	7200.1
10°	7382.7	7429.9	7465.2	7471.1
12.5°	7515.3	7568.4	7615.5	7603.6
15°	7553.6	7606.7	7653.7	7644.9
17.5°	7509.4	7562.4	7597.8	7591.9
20°	7388.7	7432.8	7468.2	7465.2
22.5°	7200.1	7238.4	7267.9	7264.8
25°	6881.9	6908.5	6932.0	6920.2
27.5°	6392.9	6401.7	6416.4	6398.8
30°	5741.8	5747.6	5753.6	5750.7
32.5°	5011.2	5008.2	5002.4	4996.4
35°	4271.8	4271.8	4274.7	4257.0
37.5°	3600.0	3597.1	3605.9	3597.1
40°	2957.8	2954.9	2966.6	2952.0
42.5°	2306.7	2315.6	2318.5	2318.5
45°	1735.2	1738.2	1741.1	1741.1
47.5°	1266.8	1269.7	1284.5	1266.8
50°	895.6	898.5	901.5	895.6
52.5°	592.1	595.1	592.1	583.3
55°	362.3	365.4	365.4	365.4
57.5°	194.4	197.4	197.4	194.4
60°	106.1	103.1	106.1	100.2
62.5°	56.0	61.8	58.9	53.0
65°	35.4	35.4	35.4	41.2
67.5°	29.5	23.5	26.6	20.6
70°	17.7	20.6	20.6	14.7
72.5°	14.7	14.7	14.7	17.7
75°	0.0	0.0	0.0	0.0
77.5°	5.9	5.9	5.9	2.9
80°	2.9	0.0	2.9	0.0
82.5°	2.9	2.9	5.9	2.9
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)