

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: P250285

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250285  
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: LSR8B150D010 EC8B1509730 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12203.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

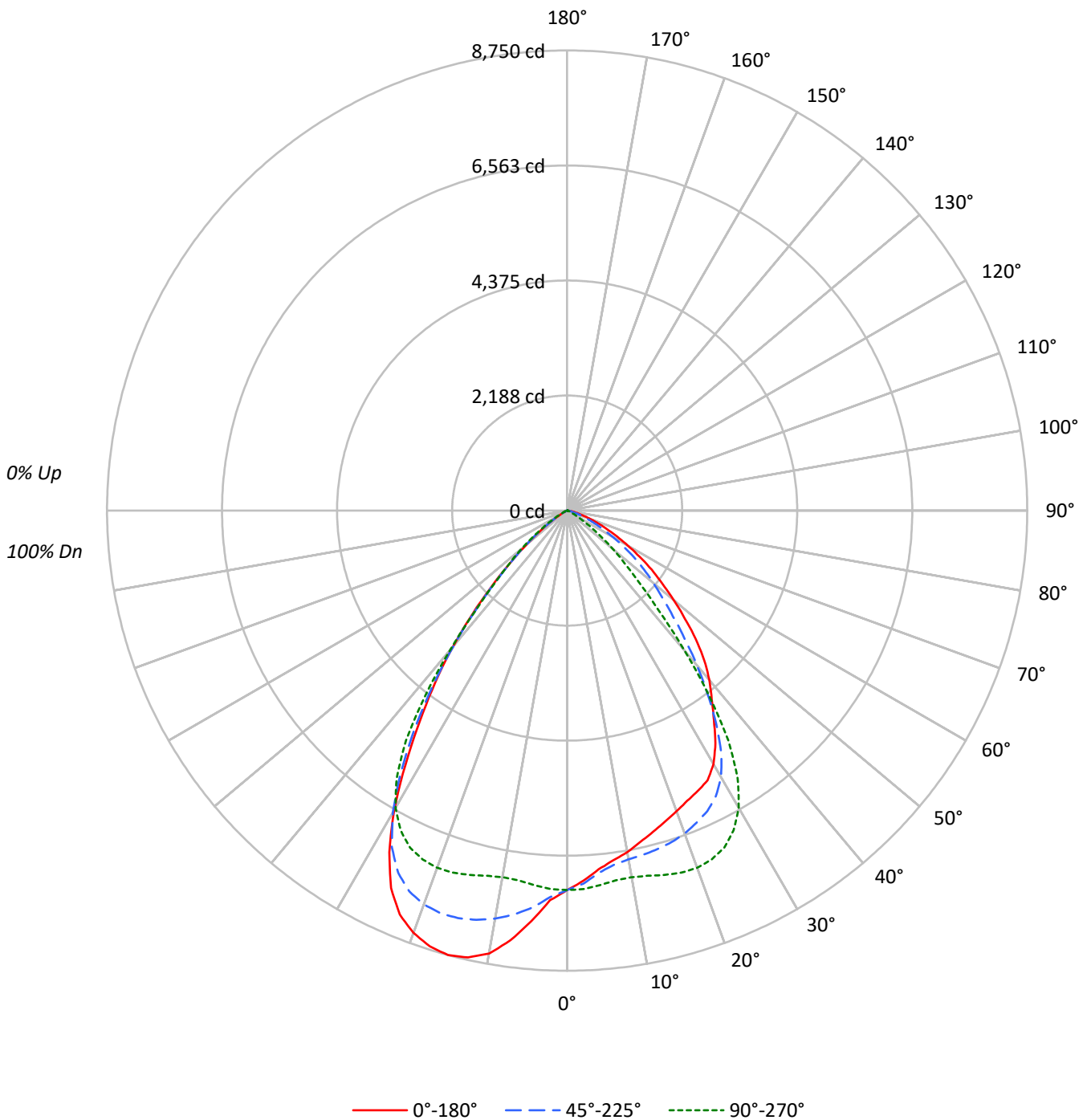
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

**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°	693.7	5.7
10°-20°	2076.1	17.0
20°-30°	3179.3	26.1
30°-40°	3116.8	25.5
40°-50°	1876.9	15.4
50°-60°	863.9	7.1
60°-70°	303.5	2.5
70°-80°	79.4	0.7
80°-90°	13.5	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°	5949.0	48.8
0°-40°	9065.8	74.3
0°-60°	11806.6	96.8
0°-90°	12203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7216	7216	7216	7216	7216	
5°	6848	6912	7148	7576	7836	647
15°	6322	6663	7172	8022	8750	1786
25°	5880	6305	7071	7603	7920	2708
35°	4866	4933	5341	5034	4872	3047
45°	3456	2846	1929	1942	1993	2650
55°	1962	1554	553	435	418	1751
65°	833	576	88	44	47	848
75°	216	125	7	0	0	262
85°	34	17	3	0	0	46
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°	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7
2.5°	7047.0	7053.8	7053.8	7053.8	7067.3	7070.8	7067.3	7070.8	7077.4	7101.0	7111.2
5°	6848.2	6838.0	6844.8	6841.4	6858.3	6868.4	6861.6	6871.7	6895.3	6912.3	6929.1
7.5°	6706.6	6706.6	6706.6	6713.3	6723.4	6743.6	6740.3	6747.0	6770.6	6794.2	6817.8
10°	6595.3	6592.0	6592.0	6608.7	6622.2	6645.8	6652.6	6672.9	6703.1	6733.5	6760.4
12.5°	6450.3	6453.7	6470.5	6487.4	6517.7	6554.8	6575.0	6602.1	6649.3	6699.8	6730.2
15°	6322.2	6325.5	6339.1	6372.7	6409.9	6453.7	6497.4	6541.3	6598.6	6662.7	6716.7
17.5°	6197.4	6200.7	6210.8	6248.0	6295.2	6352.5	6403.1	6460.4	6534.6	6608.7	6676.2
20°	6082.7	6079.4	6096.2	6129.9	6190.7	6244.6	6295.2	6362.7	6443.6	6534.6	6612.1
22.5°	5971.4	5971.4	5988.4	6022.1	6076.1	6129.9	6183.9	6254.7	6335.6	6423.3	6514.4
25°	5880.4	5877.1	5900.7	5917.6	5958.0	6012.0	6069.3	6126.6	6207.5	6305.4	6392.9
27.5°	5782.7	5779.4	5782.7	5802.9	5840.0	5880.4	5924.2	5974.9	6042.4	6123.3	6207.5
30°	5566.9	5570.2	5570.2	5587.1	5607.4	5651.1	5674.7	5725.4	5786.0	5853.5	5927.7
32.5°	5246.6	5249.9	5249.9	5256.7	5273.5	5293.7	5314.0	5351.1	5398.2	5455.6	5523.0
35°	4865.6	4865.6	4862.1	4865.6	4875.7	4875.7	4892.5	4875.7	4899.3	4933.0	4983.6
37.5°	4514.9	4508.1	4501.4	4494.6	4484.5	4467.7	4444.1	4403.6	4393.4	4380.0	4383.3
40°	4204.7	4201.4	4181.1	4164.2	4130.4	4090.0	4032.7	3961.9	3904.6	3837.2	3779.9
42.5°	3860.8	3857.3	3840.5	3810.1	3773.1	3712.4	3621.4	3527.0	3412.3	3311.2	3206.7
45°	3456.1	3466.2	3442.6	3408.9	3365.0	3307.7	3206.7	3091.9	2977.3	2845.8	2714.3
47.5°	3034.6	3031.2	3014.4	2994.2	2957.1	2899.8	2832.4	2707.6	2586.2	2464.9	2330.0
50°	2643.5	2630.0	2623.2	2603.1	2579.5	2532.3	2461.4	2360.2	2252.4	2137.7	2013.0
52.5°	2272.6	2272.6	2255.7	2242.2	2222.0	2184.9	2124.3	2043.4	1952.3	1844.3	1712.9
55°	1962.4	1955.6	1938.9	1921.9	1901.7	1878.1	1824.2	1756.8	1658.9	1554.4	1439.8
57.5°	1632.0	1628.5	1621.9	1601.6	1591.5	1567.9	1507.2	1439.8	1355.5	1264.5	1170.0
60°	1335.3	1321.8	1308.2	1294.7	1277.9	1254.4	1213.8	1156.5	1085.7	1004.8	910.4
62.5°	1068.9	1089.1	1048.7	1048.7	1014.9	994.7	957.6	923.9	849.7	775.5	694.6
65°	832.9	832.9	815.9	802.5	782.2	758.6	721.6	687.8	633.8	576.5	519.2
67.5°	637.3	633.8	617.0	603.6	586.7	573.2	546.3	505.7	465.4	418.2	370.8
70°	468.7	465.4	461.9	438.3	424.8	408.0	387.8	360.8	330.5	296.7	252.9
72.5°	337.1	337.1	327.1	317.0	303.5	289.9	269.8	252.9	225.9	202.4	172.0
75°	215.8	212.5	212.5	195.6	195.6	175.3	161.8	151.7	138.2	124.8	97.8
77.5°	155.2	151.7	148.4	141.6	134.9	128.1	118.0	104.5	94.4	80.9	70.8
80°	104.5	97.8	94.4	94.4	84.2	80.9	84.2	64.1	60.6	50.5	43.9
82.5°	64.1	64.1	60.6	60.6	57.3	54.0	43.9	43.9	40.5	37.1	30.4
85°	33.7	43.9	30.4	33.7	30.4	33.7	30.4	23.6	20.3	16.8	16.8
87.5°	20.3	13.5	13.5	20.3	16.8	13.5	13.5	13.5	10.1	6.8	6.8
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°	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7
2.5°	7104.5	7128.1	7124.6	7155.0	7165.1	7188.7	7188.7	7205.5	7215.7	7239.3	7259.5
5°	6935.9	6972.9	6983.1	7020.1	7050.5	7087.6	7111.2	7148.2	7181.9	7232.6	7279.8
7.5°	6831.4	6861.6	6881.9	6925.7	6959.5	6999.8	7040.4	7090.9	7138.1	7198.9	7266.3
10°	6780.7	6821.2	6851.5	6895.3	6935.9	6979.7	7020.1	7077.4	7131.4	7209.0	7283.1
12.5°	6767.2	6814.4	6851.5	6912.3	6952.7	6999.8	7047.0	7111.2	7168.5	7249.4	7333.8
15°	6767.2	6831.4	6881.9	6949.3	6996.5	7057.2	7107.8	7171.8	7235.9	7320.2	7401.1
17.5°	6753.8	6831.4	6895.3	6972.9	7033.6	7094.4	7158.3	7219.1	7286.4	7367.5	7458.4
20°	6699.8	6797.6	6875.1	6966.1	7030.2	7097.7	7161.8	7229.1	7300.0	7384.3	7461.9
22.5°	6605.4	6720.1	6807.8	6905.5	6979.7	7047.0	7111.2	7178.6	7256.2	7337.1	7418.0
25°	6480.6	6588.5	6683.0	6784.0	6858.3	6932.4	6993.2	7070.8	7141.5	7219.1	7283.1
27.5°	6291.8	6406.4	6497.4	6602.1	6669.4	6740.3	6790.8	6855.0	6922.4	6986.4	7037.0
30°	6008.6	6113.1	6207.5	6301.9	6369.3	6420.0	6473.8	6524.5	6568.4	6612.1	6655.9
32.5°	5593.8	5688.3	5779.4	5866.9	5920.9	5964.8	6005.2	6035.6	6059.2	6082.7	6086.1
35°	5024.1	5101.5	5158.8	5236.4	5287.1	5327.5	5327.5	5340.9	5337.6	5327.5	5317.3
37.5°	4386.8	4417.0	4440.6	4471.0	4474.3	4474.3	4454.2	4437.3	4410.4	4403.6	4383.3
40°	3722.5	3682.0	3651.6	3611.2	3587.6	3537.0	3493.3	3462.9	3419.0	3412.3	3405.5
42.5°	3091.9	2997.5	2913.3	2842.5	2761.6	2690.7	2626.7	2579.5	2545.8	2542.3	2545.8
45°	2579.5	2471.5	2346.7	2249.0	2158.0	2070.3	1986.0	1928.7	1898.3	1891.5	1898.3
47.5°	2191.7	2067.0	1945.5	1834.2	1736.5	1638.7	1554.4	1476.8	1439.8	1429.6	1426.3
50°	1884.9	1756.8	1628.5	1513.9	1406.0	1308.2	1203.7	1129.6	1082.4	1065.5	1052.0
52.5°	1584.8	1470.2	1338.6	1220.6	1112.7	998.0	890.2	805.8	758.6	738.5	724.9
55°	1321.8	1207.2	1085.7	971.1	856.5	741.8	633.8	552.9	502.4	478.8	461.9
57.5°	1055.3	947.5	843.0	728.4	633.8	522.7	414.7	343.9	300.1	273.1	259.7
60°	815.9	731.7	640.6	546.3	455.2	364.2	276.5	209.0	175.3	155.2	138.2
62.5°	617.0	546.3	485.5	404.6	333.8	256.2	188.9	134.9	104.5	87.7	80.9
65°	445.1	391.1	337.1	286.6	236.1	178.8	128.1	87.7	60.6	50.5	47.2
67.5°	317.0	273.1	232.6	198.9	161.8	128.1	91.0	60.6	47.2	40.5	37.1
70°	222.5	188.9	161.8	131.6	107.8	84.2	70.8	43.9	26.9	30.4	23.6
72.5°	148.4	124.8	111.3	91.0	74.1	60.6	43.9	30.4	30.4	23.6	20.3
75°	80.9	74.1	57.3	43.9	37.1	33.7	13.5	6.8	3.3	10.1	3.3
77.5°	57.3	50.5	43.9	37.1	30.4	23.6	13.5	13.5	10.1	13.5	6.8
80°	37.1	30.4	26.9	26.9	16.8	10.1	6.8	6.8	10.1	3.3	3.3
82.5°	23.6	20.3	16.8	16.8	16.8	10.1	10.1	10.1	10.1	6.8	6.8
85°	13.5	10.1	6.8	6.8	3.3	6.8	0.0	3.3	3.3	0.0	0.0
87.5°	6.8	3.3	3.3	3.3	3.3	0.0	0.0	3.3	0.0	3.3	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7	7215.7
2.5°	7273.0	7286.4	7303.4	7316.8	7347.2	7353.9	7367.5	7381.0	7391.1	7401.1	7404.5
5°	7320.2	7370.8	7418.0	7468.5	7532.6	7576.5	7627.0	7670.9	7714.7	7751.8	7778.7
7.5°	7333.8	7411.2	7482.1	7569.7	7664.1	7745.1	7829.4	7913.6	8001.3	8068.8	8126.1
10°	7360.7	7455.1	7546.1	7650.6	7772.1	7879.9	7984.4	8095.7	8207.0	8301.4	8385.8
12.5°	7407.9	7512.4	7610.2	7724.9	7849.6	7970.9	8085.6	8210.3	8328.5	8433.0	8527.3
15°	7485.5	7583.2	7677.7	7785.5	7910.3	8021.6	8136.2	8257.5	8375.6	8483.5	8571.2
17.5°	7536.0	7627.0	7721.4	7819.2	7923.7	8024.9	8132.8	8240.7	8348.6	8446.4	8527.3
20°	7536.0	7623.7	7694.5	7782.2	7879.9	7967.6	8055.3	8149.7	8244.1	8325.0	8402.6
22.5°	7475.3	7559.6	7613.6	7681.0	7765.3	7839.5	7886.7	7991.2	8062.0	8132.8	8190.1
25°	7333.8	7394.4	7438.3	7485.5	7552.9	7603.4	7644.0	7704.6	7775.4	7802.4	7842.8
27.5°	7077.4	7121.3	7144.9	7155.0	7188.7	7215.7	7222.5	7249.4	7279.8	7286.4	7303.4
30°	6672.9	6676.2	6666.1	6662.7	6645.8	6625.7	6622.2	6618.9	6605.4	6592.0	6595.3
32.5°	6062.5	6045.7	6005.2	5961.4	5917.6	5870.4	5843.3	5809.6	5789.3	5769.2	5745.6
35°	5273.5	5233.1	5175.8	5121.8	5071.3	5034.1	4973.4	4953.2	4933.0	4906.0	4899.3
37.5°	4346.2	4322.7	4268.7	4228.3	4201.4	4184.4	4154.0	4133.9	4133.9	4123.8	4117.0
40°	3388.6	3382.0	3361.7	3371.8	3358.4	3365.0	3361.7	3354.9	3371.8	3371.8	3378.6
42.5°	2542.3	2545.8	2555.9	2562.6	2582.8	2586.2	2603.1	2603.1	2613.2	2623.2	2630.0
45°	1891.5	1905.1	1905.1	1918.6	1938.9	1942.2	1948.8	1952.3	1959.0	1975.9	1982.6
47.5°	1419.5	1422.8	1422.8	1426.3	1433.0	1439.8	1436.4	1439.8	1449.9	1443.1	1449.9
50°	1048.7	1052.0	1041.9	1031.7	1041.9	1041.9	1038.5	1028.4	1038.5	1025.1	1031.7
52.5°	714.9	711.4	701.3	704.8	698.0	694.6	694.6	687.8	687.8	687.8	674.4
55°	451.9	451.9	445.1	445.1	441.8	435.0	431.6	428.2	424.8	421.5	421.5
57.5°	252.9	256.2	246.2	242.7	246.2	242.7	236.1	236.1	236.1	225.9	232.6
60°	138.2	134.9	131.6	128.1	124.8	128.1	128.1	121.4	121.4	121.4	124.8
62.5°	74.1	74.1	70.8	70.8	67.5	67.5	74.1	64.1	67.5	64.1	67.5
65°	40.5	50.5	37.1	37.1	47.2	43.9	40.5	40.5	43.9	37.1	40.5
67.5°	43.9	30.4	26.9	30.4	26.9	26.9	26.9	33.7	30.4	23.6	30.4
70°	20.3	23.6	23.6	16.8	26.9	13.5	23.6	13.5	20.3	16.8	20.3
72.5°	20.3	20.3	20.3	13.5	20.3	13.5	16.8	16.8	13.5	13.5	20.3
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°	6.8	6.8	3.3	3.3	3.3	3.3	6.8	6.8	6.8	0.0	3.3
80°	6.8	6.8	0.0	3.3	0.0	0.0	3.3	0.0	3.3	0.0	6.8
82.5°	3.3	6.8	3.3	3.3	6.8	6.8	6.8	3.3	3.3	3.3	3.3
85°	0.0	3.3	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	3.3
87.5°	0.0	3.3	0.0	0.0	0.0	0.0	3.3	3.3	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: P250285

CATALOG NUMBER: LSR8B150D010 EC8B1509730 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	7215.7	7215.7	7215.7	7215.7
2.5°	7407.9	7411.2	7418.0	7414.7
5°	7799.0	7826.0	7839.5	7836.2
7.5°	8166.5	8213.8	8240.7	8240.7
10°	8449.8	8503.7	8544.1	8550.9
12.5°	8601.4	8662.2	8716.2	8702.6
15°	8645.3	8706.1	8759.9	8749.8
17.5°	8594.8	8655.4	8696.0	8689.2
20°	8456.6	8507.1	8547.6	8544.1
22.5°	8240.7	8284.6	8318.3	8314.9
25°	7876.6	7907.0	7933.9	7920.4
27.5°	7316.8	7327.0	7343.8	7323.6
30°	6571.7	6578.4	6585.2	6581.8
32.5°	5735.5	5732.0	5725.4	5718.6
35°	4889.2	4889.2	4892.5	4872.2
37.5°	4120.3	4117.0	4127.1	4117.0
40°	3385.3	3382.0	3395.4	3378.6
42.5°	2640.1	2650.3	2653.6	2653.6
45°	1986.0	1989.4	1992.7	1992.7
47.5°	1449.9	1453.2	1470.2	1449.9
50°	1025.1	1028.4	1031.7	1025.1
52.5°	677.7	681.2	677.7	667.6
55°	414.7	418.2	418.2	418.2
57.5°	222.5	225.9	225.9	222.5
60°	121.4	118.0	121.4	114.6
62.5°	64.1	70.8	67.5	60.6
65°	40.5	40.5	40.5	47.2
67.5°	33.7	26.9	30.4	23.6
70°	20.3	23.6	23.6	16.8
72.5°	16.8	16.8	16.8	20.3
75°	0.0	0.0	0.0	0.0
77.5°	6.8	6.8	6.8	3.3
80°	3.3	0.0	3.3	0.0
82.5°	3.3	3.3	6.8	3.3
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)