

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: P250264

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250264  
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 EC8B150940 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14755.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

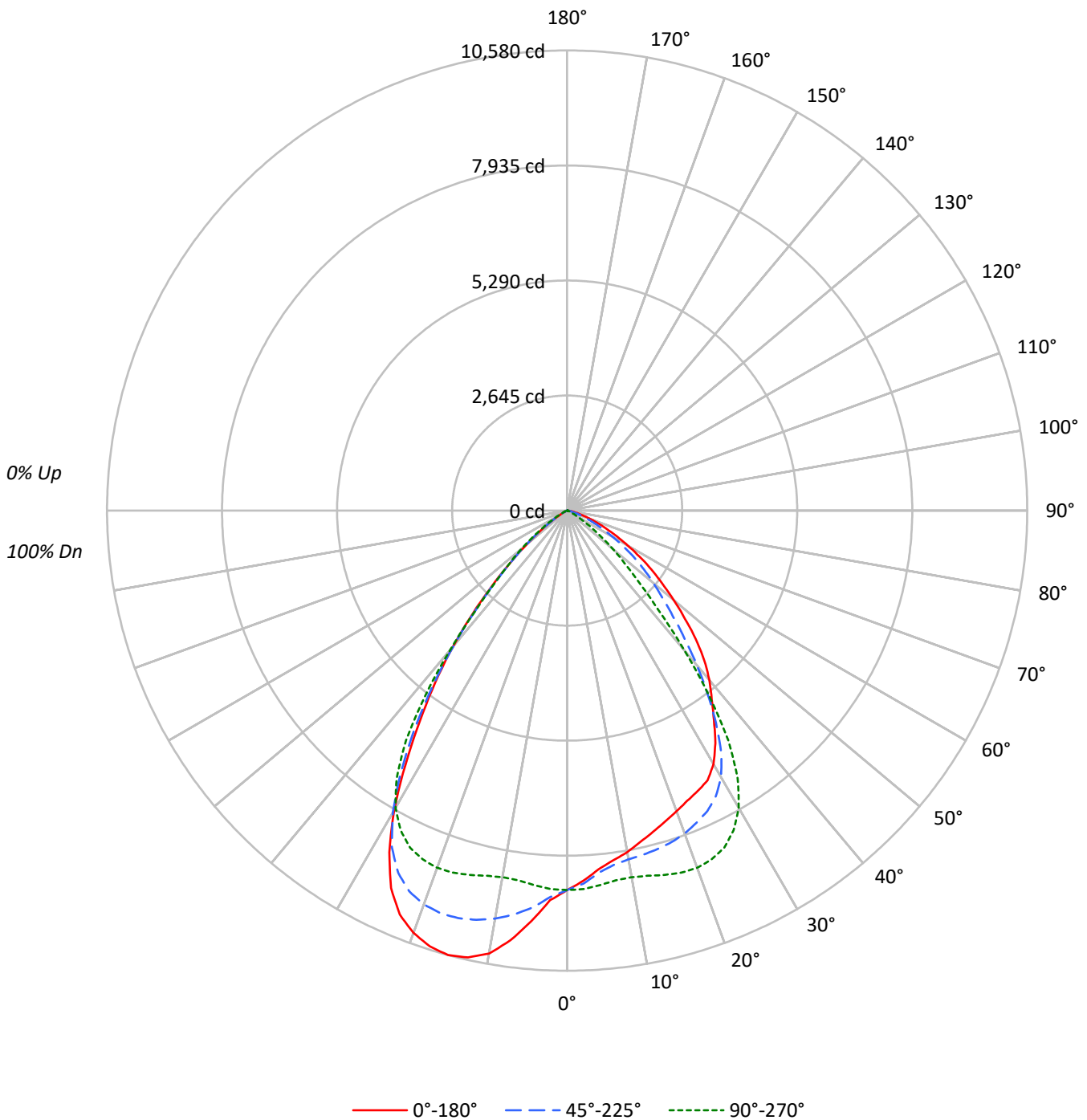
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	269038	269038	269038
5°	256309	267539	293287
10°	249698	267953	323741
15°	244037	276833	337744
20°	241350	286835	339012
25°	241918	290889	325842
30°	239672	280901	283369
35°	221465	243102	221769
40°	204651	168547	164445
45°	182234	101701	105072
50°	153335	65521	59462
55°	127565	35945	27182
60°	99570	15585	8548
65°	73476	7742	4166
70°	51093	4778	1830
75°	31084	977	0
80°	22446	1456	0
85°	14435	1415	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.7	5.7
10°-20°	2510.2	17.0
20°-30°	3844.2	26.1
30°-40°	3768.6	25.5
40°-50°	2269.4	15.4
50°-60°	1044.5	7.1
60°-70°	367.0	2.5
70°-80°	96.0	0.7
80°-90°	16.3	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°	7193.2	48.8
0°-40°	10961.7	74.3
0°-60°	14275.7	96.8
0°-90°	14755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8725	8725	8725	8725	8725	
5°	8280	8358	8643	9161	9475	782
15°	7644	8056	8672	9699	10580	2160
25°	7110	7624	8550	9194	9577	3275
35°	5883	5965	6458	6087	5891	3685
45°	4179	3441	2332	2348	2409	3204
55°	2373	1880	669	526	506	2117
65°	1007	697	106	53	57	1026
75°	261	151	8	0	0	316
85°	41	20	4	0	0	56
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°	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7
2.5°	8520.8	8529.0	8529.0	8529.0	8545.3	8549.5	8545.3	8549.5	8557.5	8586.1	8598.3
5°	8280.3	8268.0	8276.3	8272.1	8292.5	8304.8	8296.6	8308.8	8337.4	8357.8	8378.1
7.5°	8109.1	8109.1	8109.1	8117.2	8129.4	8153.9	8149.9	8158.0	8186.5	8215.0	8243.5
10°	7974.5	7970.5	7970.5	7990.8	8007.1	8035.6	8043.9	8068.4	8104.9	8141.7	8174.2
12.5°	7799.2	7803.4	7823.7	7844.2	7880.7	7925.5	7950.0	7982.8	8039.8	8100.9	8137.7
15°	7644.3	7648.3	7664.8	7705.4	7750.4	7803.4	7856.2	7909.3	7978.6	8056.1	8121.4
17.5°	7493.4	7497.5	7509.7	7554.7	7611.7	7681.0	7742.1	7811.4	7901.2	7990.8	8072.4
20°	7354.8	7350.8	7371.1	7411.9	7485.4	7550.5	7611.7	7693.3	7791.1	7901.2	7994.9
22.5°	7220.2	7220.2	7240.7	7281.5	7346.8	7411.9	7477.2	7562.7	7660.6	7766.6	7876.7
25°	7110.2	7106.1	7134.7	7155.1	7204.0	7269.2	7338.5	7407.8	7505.7	7624.0	7729.9
27.5°	6992.0	6988.0	6992.0	7016.5	7061.3	7110.2	7163.2	7224.4	7306.0	7403.8	7505.7
30°	6731.1	6735.1	6735.1	6755.6	6780.1	6832.9	6861.5	6922.7	6996.0	7077.6	7167.4
32.5°	6343.8	6347.8	6347.8	6356.0	6376.3	6400.8	6425.3	6470.1	6527.2	6596.5	6678.0
35°	5883.1	5883.1	5878.9	5883.1	5895.4	5895.4	5915.7	5895.4	5923.9	5964.7	6025.8
37.5°	5459.1	5450.8	5442.8	5434.6	5422.3	5402.0	5373.5	5324.5	5312.2	5295.9	5300.0
40°	5084.0	5080.0	5055.5	5035.0	4994.2	4945.4	4876.1	4790.5	4721.2	4639.6	4570.3
42.5°	4668.2	4664.0	4643.7	4606.9	4562.1	4488.8	4378.7	4264.6	4126.0	4003.6	3877.3
45°	4178.8	4191.1	4162.6	4121.8	4068.7	3999.4	3877.3	3738.5	3599.9	3441.0	3281.9
47.5°	3669.2	3665.2	3644.9	3620.4	3575.5	3506.2	3424.7	3273.8	3127.0	2980.3	2817.2
50°	3196.3	3180.0	3171.8	3147.5	3118.9	3061.9	2976.1	2853.8	2723.4	2584.8	2433.9
52.5°	2747.9	2747.9	2727.4	2711.2	2686.7	2641.8	2568.5	2470.7	2360.6	2230.0	2071.1
55°	2372.8	2364.6	2344.3	2323.8	2299.3	2270.8	2205.7	2124.2	2005.8	1879.5	1740.9
57.5°	1973.3	1969.1	1961.0	1936.5	1924.3	1895.8	1822.4	1740.9	1639.0	1528.9	1414.6
60°	1614.5	1598.2	1581.8	1565.5	1545.2	1516.7	1467.7	1398.4	1312.8	1215.0	1100.8
62.5°	1292.5	1316.8	1268.0	1268.0	1227.2	1202.7	1157.9	1117.1	1027.3	937.7	839.9
65°	1007.0	1007.0	986.6	970.3	945.8	917.3	872.4	831.7	766.4	697.1	627.8
67.5°	770.6	766.4	746.1	729.8	709.3	693.1	660.5	611.5	562.7	505.6	448.4
70°	566.7	562.7	558.5	529.9	513.7	493.4	468.9	436.3	399.6	358.8	305.8
72.5°	407.6	407.6	395.5	383.3	367.0	350.6	326.2	305.8	273.2	244.7	207.9
75°	260.9	256.9	256.9	236.4	236.4	211.9	195.7	183.4	167.1	150.9	118.3
77.5°	187.6	183.4	179.4	171.2	163.1	154.9	142.6	126.4	114.1	97.8	85.6
80°	126.4	118.3	114.1	114.1	101.9	97.8	101.9	77.5	73.3	61.1	53.0
82.5°	77.5	77.5	73.3	73.3	69.3	65.3	53.0	53.0	49.0	44.8	36.8
85°	40.8	53.0	36.8	40.8	36.8	40.8	36.8	28.5	24.5	20.3	20.3
87.5°	24.5	16.3	16.3	24.5	20.3	16.3	16.3	16.3	12.3	8.2	8.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7
2.5°	8590.2	8618.8	8614.6	8651.3	8663.6	8692.1	8692.1	8712.4	8724.7	8753.2	8777.7
5°	8386.4	8431.2	8443.4	8488.2	8525.0	8569.8	8598.3	8643.1	8683.9	8745.1	8802.2
7.5°	8260.0	8296.6	8321.1	8374.1	8414.9	8463.7	8512.7	8573.8	8630.9	8704.4	8785.9
10°	8198.7	8247.7	8284.3	8337.4	8386.4	8439.4	8488.2	8557.5	8622.8	8716.6	8806.2
12.5°	8182.5	8239.5	8284.3	8357.8	8406.7	8463.7	8520.8	8598.3	8667.6	8765.4	8867.5
15°	8182.5	8260.0	8321.1	8402.6	8459.7	8533.0	8594.3	8671.6	8749.2	8851.0	8948.9
17.5°	8166.2	8260.0	8337.4	8431.2	8504.5	8578.0	8655.4	8728.9	8810.2	8908.2	9018.2
20°	8100.9	8219.2	8312.9	8422.9	8500.5	8582.0	8659.6	8740.9	8826.7	8928.6	9022.4
22.5°	7986.8	8125.4	8231.5	8349.6	8439.4	8520.8	8598.3	8679.9	8773.7	8871.5	8969.3
25°	7835.9	7966.3	8080.6	8202.8	8292.5	8382.2	8455.7	8549.5	8635.1	8728.9	8806.2
27.5°	7607.5	7746.2	7856.2	7982.8	8064.2	8149.9	8211.0	8288.5	8370.1	8447.4	8508.7
30°	7265.2	7391.6	7505.7	7619.8	7701.4	7762.6	7827.7	7889.0	7942.0	7994.9	8047.9
32.5°	6763.6	6877.9	6988.0	7093.9	7159.2	7212.2	7261.0	7297.8	7326.3	7354.8	7358.8
35°	6074.8	6168.4	6237.7	6331.5	6392.8	6441.6	6441.6	6457.9	6453.8	6441.6	6429.3
37.5°	5304.2	5340.8	5369.3	5406.0	5410.1	5410.1	5385.7	5365.3	5332.7	5324.5	5300.0
40°	4501.0	4452.0	4415.3	4366.4	4337.9	4276.7	4223.8	4187.1	4134.0	4126.0	4117.7
42.5°	3738.5	3624.4	3522.5	3436.9	3339.1	3253.4	3176.0	3118.9	3078.2	3074.0	3078.2
45°	3118.9	2988.4	2837.5	2719.4	2609.3	2503.2	2401.4	2332.1	2295.3	2287.1	2295.3
47.5°	2650.1	2499.2	2352.4	2217.8	2099.7	1981.3	1879.5	1785.7	1740.9	1728.6	1724.6
50°	2279.0	2124.2	1969.1	1830.5	1700.1	1581.8	1455.4	1365.8	1308.8	1288.3	1272.0
52.5°	1916.2	1777.6	1618.5	1475.9	1345.3	1206.7	1076.3	974.3	917.3	892.9	876.5
55°	1598.2	1459.6	1312.8	1174.2	1035.6	896.9	766.4	668.6	607.5	578.9	558.5
57.5°	1276.0	1145.6	1019.3	880.7	766.4	632.0	501.4	415.8	362.8	330.3	314.0
60°	986.6	884.7	774.6	660.5	550.4	440.3	334.3	252.7	211.9	187.6	167.1
62.5°	746.1	660.5	587.0	489.2	403.6	309.8	228.4	163.1	126.4	106.1	97.8
65°	538.2	472.9	407.6	346.5	285.4	216.1	154.9	106.1	73.3	61.1	57.1
67.5°	383.3	330.3	281.3	240.5	195.7	154.9	110.1	73.3	57.1	49.0	44.8
70°	269.0	228.4	195.7	159.1	130.4	101.9	85.6	53.0	32.6	36.8	28.5
72.5°	179.4	150.9	134.6	110.1	89.6	73.3	53.0	36.8	36.8	28.5	24.5
75°	97.8	89.6	69.3	53.0	44.8	40.8	16.3	8.2	4.0	12.3	4.0
77.5°	69.3	61.1	53.0	44.8	36.8	28.5	16.3	16.3	12.3	16.3	8.2
80°	44.8	36.8	32.6	32.6	20.3	12.3	8.2	8.2	12.3	4.0	4.0
82.5°	28.5	24.5	20.3	20.3	20.3	12.3	12.3	12.3	12.3	8.2	8.2
85°	16.3	12.3	8.2	8.2	4.0	8.2	0.0	4.0	4.0	0.0	0.0
87.5°	8.2	4.0	4.0	4.0	4.0	0.0	0.0	4.0	0.0	4.0	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7	8724.7
2.5°	8794.0	8810.2	8830.7	8847.0	8883.7	8891.8	8908.2	8924.5	8936.8	8948.9	8953.1
5°	8851.0	8912.3	8969.3	9030.4	9107.9	9161.0	9222.1	9275.1	9328.1	9372.9	9405.5
7.5°	8867.5	8961.1	9046.9	9152.7	9266.9	9364.9	9466.7	9568.6	9674.6	9756.2	9825.5
10°	8900.0	9014.1	9124.2	9250.6	9397.4	9527.8	9654.2	9788.8	9923.3	10037.4	10139.5
12.5°	8957.1	9083.4	9201.7	9340.4	9491.2	9637.9	9776.5	9927.4	10070.2	10196.5	10310.6
15°	9050.9	9169.0	9283.3	9413.7	9564.6	9699.1	9837.8	9984.4	10127.2	10257.6	10363.7
17.5°	9112.0	9222.1	9336.2	9454.5	9580.8	9703.2	9833.6	9964.1	10094.5	10212.8	10310.6
20°	9112.0	9218.0	9303.6	9409.7	9527.8	9633.9	9739.9	9854.0	9968.1	10066.0	10159.8
22.5°	9038.6	9140.5	9205.8	9287.3	9389.2	9479.0	9536.0	9624.4	9748.0	9833.6	9902.9
25°	8867.5	8940.8	8993.8	9050.9	9132.4	9193.5	9242.5	9315.9	9401.4	9434.2	9483.0
27.5°	8557.5	8610.6	8639.1	8651.3	8692.1	8724.7	8732.9	8765.4	8802.2	8810.2	8830.7
30°	8068.4	8072.4	8060.1	8056.1	8035.6	8011.3	8007.1	8003.1	7986.8	7970.5	7974.5
32.5°	7330.3	7310.0	7261.0	7208.2	7155.1	7098.1	7065.3	7024.6	7000.1	6975.7	6947.2
35°	6376.3	6327.5	6258.2	6192.9	6131.8	6086.8	6013.5	5989.0	5964.7	5932.0	5923.9
37.5°	5255.2	5226.6	5161.4	5112.5	5080.0	5059.5	5022.8	4998.4	4998.4	4986.2	4977.9
40°	4097.3	4089.2	4064.7	4077.0	4060.7	4068.7	4064.7	4056.5	4077.0	4077.0	4085.2
42.5°	3074.0	3078.2	3090.4	3098.5	3123.0	3127.0	3147.5	3147.5	3159.7	3171.8	3180.0
45°	2287.1	2303.5	2303.5	2319.8	2344.3	2348.3	2356.4	2360.6	2368.7	2389.1	2397.2
47.5°	1716.4	1720.4	1720.4	1724.6	1732.6	1740.9	1736.8	1740.9	1753.1	1744.9	1753.1
50°	1268.0	1272.0	1259.8	1247.5	1259.8	1259.8	1255.7	1243.5	1255.7	1239.5	1247.5
52.5°	864.4	860.2	847.9	852.1	843.9	839.9	839.9	831.7	831.7	831.7	815.4
55°	546.4	546.4	538.2	538.2	534.1	525.9	521.9	517.7	513.7	509.6	509.6
57.5°	305.8	309.8	297.7	293.5	297.7	293.5	285.4	285.4	285.4	273.2	281.3
60°	167.1	163.1	159.1	154.9	150.9	154.9	154.9	146.8	146.8	146.8	150.9
62.5°	89.6	89.6	85.6	85.6	81.6	81.6	89.6	77.5	81.6	77.5	81.6
65°	49.0	61.1	44.8	44.8	57.1	53.0	49.0	49.0	53.0	44.8	49.0
67.5°	53.0	36.8	32.6	36.8	32.6	32.6	32.6	40.8	36.8	28.5	36.8
70°	24.5	28.5	28.5	20.3	32.6	16.3	28.5	16.3	24.5	20.3	24.5
72.5°	24.5	24.5	24.5	16.3	24.5	16.3	20.3	20.3	16.3	16.3	24.5
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°	8.2	8.2	4.0	4.0	4.0	4.0	8.2	8.2	8.2	0.0	4.0
80°	8.2	8.2	0.0	4.0	0.0	0.0	4.0	0.0	4.0	0.0	8.2
82.5°	4.0	8.2	4.0	4.0	8.2	8.2	8.2	4.0	4.0	4.0	4.0
85°	0.0	4.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	4.0
87.5°	0.0	4.0	0.0	0.0	0.0	0.0	4.0	4.0	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: P250264

CATALOG NUMBER: LSR8B150D010 EC8B150940 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8724.7	8724.7	8724.7	8724.7
2.5°	8957.1	8961.1	8969.3	8965.3
5°	9430.0	9462.7	9479.0	9474.9
7.5°	9874.3	9931.6	9964.1	9964.1
10°	10216.8	10282.1	10330.9	10339.2
12.5°	10400.3	10473.8	10539.0	10522.6
15°	10453.3	10526.8	10591.9	10579.6
17.5°	10392.2	10465.5	10514.5	10506.3
20°	10225.1	10286.1	10335.1	10330.9
22.5°	9964.1	10017.1	10057.9	10053.7
25°	9523.8	9560.5	9593.1	9576.8
27.5°	8847.0	8859.2	8879.6	8855.2
30°	7946.0	7954.1	7962.3	7958.3
32.5°	6935.0	6930.8	6922.7	6914.5
35°	5911.6	5911.6	5915.7	5891.2
37.5°	4982.0	4977.9	4990.2	4977.9
40°	4093.2	4089.2	4105.5	4085.2
42.5°	3192.3	3204.5	3208.5	3208.5
45°	2401.4	2405.4	2409.4	2409.4
47.5°	1753.1	1757.1	1777.6	1753.1
50°	1239.5	1243.5	1247.5	1239.5
52.5°	819.4	823.6	819.4	807.2
55°	501.4	505.6	505.6	505.6
57.5°	269.0	273.2	273.2	269.0
60°	146.8	142.6	146.8	138.6
62.5°	77.5	85.6	81.6	73.3
65°	49.0	49.0	49.0	57.1
67.5°	40.8	32.6	36.8	28.5
70°	24.5	28.5	28.5	20.3
72.5°	20.3	20.3	20.3	24.5
75°	0.0	0.0	0.0	0.0
77.5°	8.2	8.2	8.2	4.0
80°	4.0	0.0	4.0	0.0
82.5°	4.0	4.0	8.2	4.0
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)