

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: P250257

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250257  
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 EC8B150935 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14127.0 lumens  
Efficiency: N/A  
Efficacy: 89.1 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

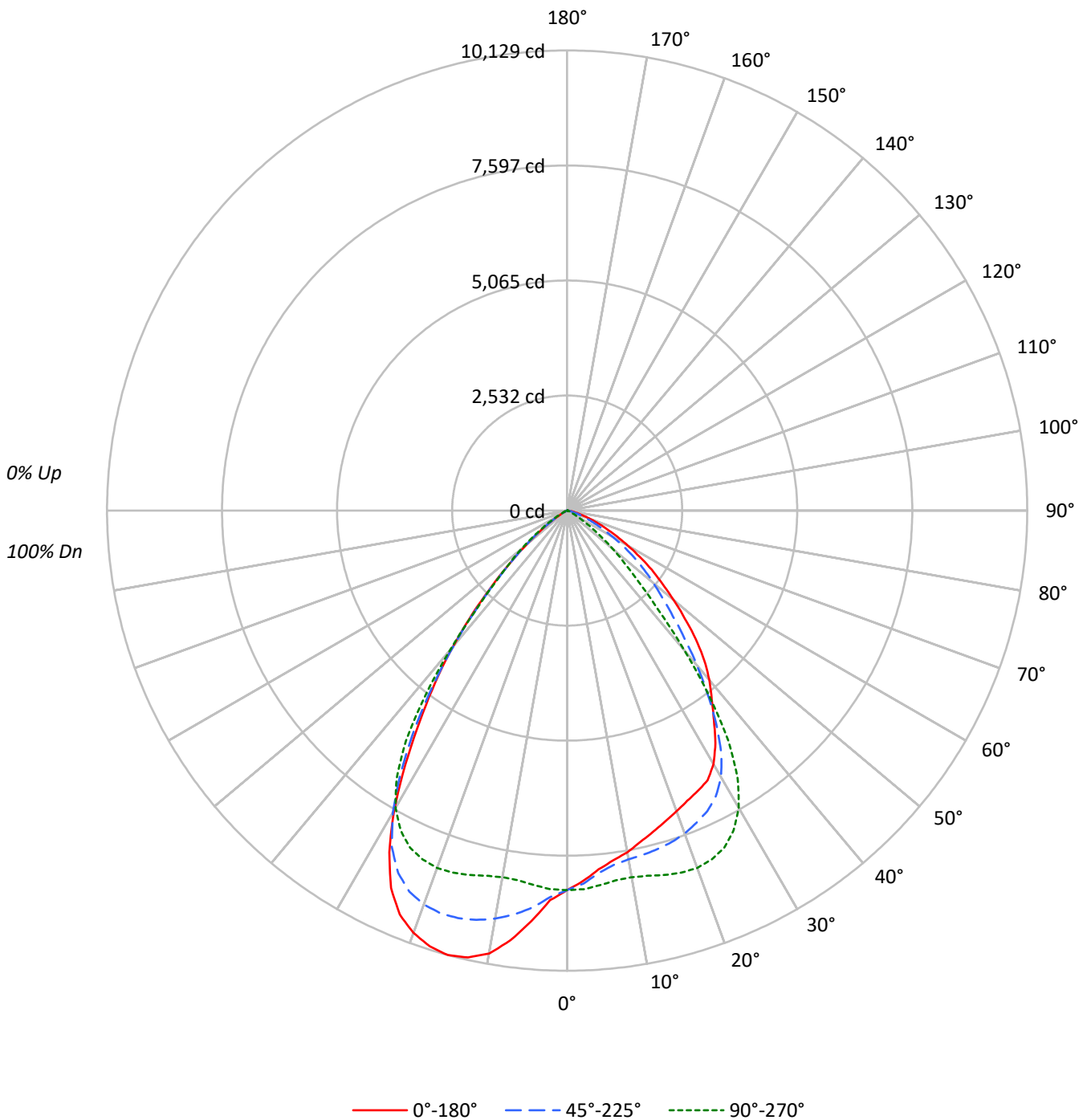
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	257585	257585	257585
5°	245401	256151	280806
10°	239070	256549	309961
15°	233649	265053	323372
20°	231079	274628	324583
25°	231619	278508	311974
30°	229471	268945	271309
35°	212038	232754	212328
40°	195940	161370	157445
45°	174480	97370	100602
50°	146811	62734	56929
55°	122141	34413	26026
60°	95334	14925	8184
65°	70353	7406	3984
70°	48920	4580	1749
75°	29762	941	0
80°	21487	1403	0
85°	13798	1380	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	803.0	5.7
10°-20°	2403.4	17.0
20°-30°	3680.6	26.1
30°-40°	3608.2	25.5
40°-50°	2172.9	15.4
50°-60°	1000.1	7.1
60°-70°	351.3	2.5
70°-80°	91.9	0.7
80°-90°	15.7	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°	6887.0	48.8
0°-40°	10495.2	74.3
0°-60°	13668.1	96.8
0°-90°	14127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8353	8353	8353	8353	8353	
5°	7928	8002	8275	8771	9072	749
15°	7319	7713	8303	9286	10129	2068
25°	6808	7300	8186	8802	9169	3135
35°	5633	5711	6183	5828	5640	3528
45°	4001	3294	2233	2248	2307	3068
55°	2272	1800	640	504	484	2027
65°	964	667	102	51	55	982
75°	250	144	8	0	0	303
85°	39	19	4	0	0	54
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°	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3
2.5°	8158.1	8166.0	8166.0	8166.0	8181.6	8185.6	8181.6	8185.6	8193.3	8220.6	8232.3
5°	7927.9	7916.1	7924.0	7920.0	7939.6	7951.3	7943.5	7955.2	7982.5	8002.1	8021.5
7.5°	7764.0	7764.0	7764.0	7771.7	7783.4	7806.9	7803.0	7810.7	7838.1	7865.4	7892.7
10°	7635.1	7631.3	7631.3	7650.7	7666.3	7693.6	7701.5	7724.9	7760.0	7795.2	7826.3
12.5°	7467.2	7471.3	7490.7	7510.3	7545.3	7588.2	7611.7	7643.0	7697.6	7756.1	7791.3
15°	7318.9	7322.8	7338.5	7377.4	7420.5	7471.3	7521.9	7572.6	7639.0	7713.2	7775.7
17.5°	7174.5	7178.4	7190.1	7233.1	7287.8	7354.1	7412.6	7479.0	7564.9	7650.7	7728.8
20°	7041.8	7037.9	7057.4	7096.4	7166.8	7229.1	7287.8	7365.9	7459.5	7564.9	7654.6
22.5°	6912.9	6912.9	6932.5	6971.6	7034.1	7096.4	7158.9	7240.9	7334.5	7436.1	7541.5
25°	6807.5	6803.7	6831.0	6850.6	6897.3	6959.8	7026.2	7092.6	7186.2	7299.5	7400.9
27.5°	6694.4	6690.6	6694.4	6717.9	6760.8	6807.5	6858.3	6916.9	6995.0	7088.7	7186.2
30°	6444.6	6448.4	6448.4	6468.0	6491.5	6542.1	6569.4	6628.1	6698.3	6776.4	6862.3
32.5°	6073.8	6077.6	6077.6	6085.5	6104.9	6128.4	6151.8	6194.7	6249.4	6315.7	6393.8
35°	5632.7	5632.7	5628.7	5632.7	5644.5	5644.5	5663.9	5644.5	5671.8	5710.8	5769.3
37.5°	5226.7	5218.8	5211.1	5203.3	5191.5	5172.1	5144.8	5097.9	5086.1	5070.5	5074.4
40°	4867.6	4863.8	4840.3	4820.7	4781.7	4734.9	4668.5	4586.6	4520.3	4442.2	4375.8
42.5°	4469.5	4465.5	4446.0	4410.8	4367.9	4297.7	4192.3	4083.1	3950.4	3833.2	3712.2
45°	4001.0	4012.7	3985.4	3946.3	3895.6	3829.2	3712.2	3579.4	3446.7	3294.5	3142.2
47.5°	3513.0	3509.2	3489.7	3466.3	3423.4	3357.0	3278.9	3134.5	2993.9	2853.5	2697.3
50°	3060.3	3044.7	3036.8	3013.5	2986.2	2931.6	2849.5	2732.3	2607.5	2474.8	2330.3
52.5°	2630.9	2630.9	2611.3	2595.8	2572.3	2529.4	2459.2	2365.5	2260.1	2135.1	1983.0
55°	2271.9	2264.0	2244.5	2224.9	2201.5	2174.2	2111.8	2033.7	1920.5	1799.5	1666.8
57.5°	1889.3	1885.3	1877.6	1854.1	1842.4	1815.1	1744.9	1666.8	1569.3	1463.9	1354.4
60°	1545.8	1530.2	1514.5	1498.9	1479.4	1452.1	1405.2	1338.9	1256.9	1163.2	1054.0
62.5°	1237.5	1260.8	1214.0	1214.0	1175.0	1151.5	1108.6	1069.6	983.6	897.8	804.1
65°	964.2	964.2	944.6	929.0	905.5	878.2	835.3	796.3	733.8	667.4	601.1
67.5°	737.8	733.8	714.3	698.7	679.1	663.6	632.4	585.5	538.7	484.1	429.3
70°	542.6	538.7	534.7	507.4	491.8	472.4	448.9	417.7	382.6	343.5	292.7
72.5°	390.3	390.3	378.7	367.0	351.4	335.6	312.3	292.7	261.6	234.3	199.1
75°	249.8	246.0	246.0	226.4	226.4	202.9	187.3	175.6	160.0	144.4	113.3
77.5°	179.6	175.6	171.8	163.9	156.2	148.3	136.6	121.0	109.3	93.7	81.9
80°	121.0	113.3	109.3	109.3	97.5	93.7	97.5	74.2	70.2	58.5	50.8
82.5°	74.2	74.2	70.2	70.2	66.4	62.5	50.8	50.8	46.9	42.9	35.2
85°	39.0	50.8	35.2	39.0	35.2	39.0	35.2	27.3	23.5	19.4	19.4
87.5°	23.5	15.6	15.6	23.5	19.4	15.6	15.6	15.6	11.7	7.9	7.9
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°	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3
2.5°	8224.6	8251.9	8247.9	8283.1	8294.8	8322.2	8322.2	8341.6	8353.3	8380.6	8404.1
5°	8029.4	8072.3	8084.0	8126.9	8162.1	8205.0	8232.3	8275.2	8314.3	8372.9	8427.6
7.5°	7908.4	7943.5	7966.9	8017.7	8056.7	8103.5	8150.4	8208.9	8263.5	8333.9	8412.0
10°	7849.8	7896.7	7931.7	7982.5	8029.4	8080.2	8126.9	8193.3	8255.8	8345.6	8431.4
12.5°	7834.2	7888.8	7931.7	8002.1	8048.9	8103.5	8158.1	8232.3	8298.7	8392.4	8490.1
15°	7834.2	7908.4	7966.9	8045.0	8099.6	8169.8	8228.5	8302.6	8376.8	8474.3	8568.0
17.5°	7818.6	7908.4	7982.5	8072.3	8142.5	8212.9	8287.0	8357.3	8435.3	8529.1	8634.3
20°	7756.1	7869.4	7959.0	8064.4	8138.7	8216.8	8291.0	8368.9	8451.0	8548.5	8638.4
22.5°	7646.9	7779.6	7881.1	7994.2	8080.2	8158.1	8232.3	8310.4	8400.2	8493.9	8587.6
25°	7502.4	7627.3	7736.7	7853.6	7939.6	8025.4	8095.8	8185.6	8267.5	8357.3	8431.4
27.5°	7283.8	7416.5	7521.9	7643.0	7720.9	7803.0	7861.5	7935.7	8013.8	8087.9	8146.5
30°	6956.0	7077.0	7186.2	7295.5	7373.6	7432.2	7494.6	7553.2	7604.0	7654.6	7705.3
32.5°	6475.8	6585.2	6690.6	6791.9	6854.4	6905.2	6952.0	6987.2	7014.5	7041.8	7045.6
35°	5816.2	5905.9	5972.2	6062.0	6120.7	6167.4	6167.4	6183.0	6179.2	6167.4	6155.7
37.5°	5078.4	5113.4	5140.8	5175.9	5179.8	5179.8	5156.5	5136.9	5105.7	5097.9	5074.4
40°	4309.5	4262.5	4227.4	4180.6	4153.3	4094.6	4044.0	4008.8	3958.1	3950.4	3942.5
42.5°	3579.4	3470.1	3372.6	3290.7	3197.0	3114.9	3040.8	2986.2	2947.1	2943.1	2947.1
45°	2986.2	2861.2	2716.7	2603.6	2498.2	2396.7	2299.2	2232.8	2197.6	2189.8	2197.6
47.5°	2537.3	2392.8	2252.3	2123.4	2010.3	1897.0	1799.5	1709.7	1666.8	1655.0	1651.2
50°	2182.0	2033.7	1885.3	1752.6	1627.7	1514.5	1393.5	1307.7	1253.1	1233.5	1217.9
52.5°	1834.7	1702.0	1549.6	1413.1	1288.1	1155.4	1030.5	932.8	878.2	854.9	839.2
55°	1530.2	1397.5	1256.9	1124.2	991.5	858.8	733.8	640.1	581.6	554.3	534.7
57.5°	1221.7	1096.9	975.9	843.2	733.8	605.1	480.1	398.1	347.4	316.2	300.6
60°	944.6	847.0	741.6	632.4	527.0	421.6	320.1	242.0	202.9	179.6	160.0
62.5°	714.3	632.4	562.0	468.3	386.4	296.6	218.7	156.2	121.0	101.5	93.7
65°	515.3	452.8	390.3	331.8	273.3	206.9	148.3	101.5	70.2	58.5	54.6
67.5°	367.0	316.2	269.3	230.2	187.3	148.3	105.4	70.2	54.6	46.9	42.9
70°	257.6	218.7	187.3	152.3	124.8	97.5	81.9	50.8	31.2	35.2	27.3
72.5°	171.8	144.4	128.9	105.4	85.8	70.2	50.8	35.2	35.2	27.3	23.5
75°	93.7	85.8	66.4	50.8	42.9	39.0	15.6	7.9	3.9	11.7	3.9
77.5°	66.4	58.5	50.8	42.9	35.2	27.3	15.6	15.6	11.7	15.6	7.9
80°	42.9	35.2	31.2	31.2	19.4	11.7	7.9	7.9	11.7	3.9	3.9
82.5°	27.3	23.5	19.4	19.4	19.4	11.7	11.7	11.7	11.7	7.9	7.9
85°	15.6	11.7	7.9	7.9	3.9	7.9	0.0	3.9	3.9	0.0	0.0
87.5°	7.9	3.9	3.9	3.9	3.9	0.0	0.0	3.9	0.0	3.9	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°	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3	8353.3
2.5°	8419.7	8435.3	8454.9	8470.5	8505.6	8513.4	8529.1	8544.7	8556.4	8568.0	8572.0
5°	8474.3	8533.0	8587.6	8646.1	8720.3	8771.1	8829.5	8880.3	8931.1	8974.0	9005.2
7.5°	8490.1	8579.7	8661.8	8763.2	8872.4	8966.3	9063.8	9161.3	9262.9	9341.0	9407.3
10°	8521.2	8630.5	8735.9	8856.9	8997.4	9122.3	9243.3	9372.1	9501.0	9610.2	9707.9
12.5°	8575.9	8696.8	8810.1	8942.8	9087.3	9227.7	9360.4	9504.8	9641.6	9762.5	9871.8
15°	8665.7	8778.8	8888.2	9013.0	9157.5	9286.3	9419.0	9559.5	9696.2	9821.0	9922.6
17.5°	8724.1	8829.5	8938.8	9052.1	9173.1	9290.2	9415.0	9540.0	9664.9	9778.1	9871.8
20°	8724.1	8825.7	8907.6	9009.2	9122.3	9223.8	9325.4	9434.6	9543.9	9637.5	9727.4
22.5°	8653.9	8751.5	8814.0	8892.0	8989.6	9075.5	9130.2	9251.1	9333.1	9415.0	9481.4
25°	8490.1	8560.3	8611.0	8665.7	8743.7	8802.2	8849.1	8919.4	9001.3	9032.6	9079.4
27.5°	8193.3	8244.1	8271.4	8283.1	8322.2	8353.3	8361.2	8392.4	8427.6	8435.3	8454.9
30°	7724.9	7728.8	7717.1	7713.2	7693.6	7670.3	7666.3	7662.4	7646.9	7631.3	7635.1
32.5°	7018.3	6998.9	6952.0	6901.4	6850.6	6796.0	6764.6	6725.6	6702.1	6678.8	6651.5
35°	6104.9	6058.2	5991.8	5929.3	5870.8	5827.8	5757.6	5734.1	5710.8	5679.5	5671.8
37.5°	5031.5	5004.2	4941.7	4894.9	4863.8	4844.2	4809.0	4785.7	4785.7	4773.9	4766.1
40°	3922.9	3915.2	3891.7	3903.4	3887.9	3895.6	3891.7	3883.8	3903.4	3903.4	3911.3
42.5°	2943.1	2947.1	2958.9	2966.6	2990.0	2993.9	3013.5	3013.5	3025.2	3036.8	3044.7
45°	2189.8	2205.5	2205.5	2221.1	2244.5	2248.4	2256.1	2260.1	2267.8	2287.4	2295.2
47.5°	1643.3	1647.2	1647.2	1651.2	1658.9	1666.8	1662.9	1666.8	1678.5	1670.6	1678.5
50°	1214.0	1217.9	1206.1	1194.4	1206.1	1206.1	1202.3	1190.6	1202.3	1186.7	1194.4
52.5°	827.6	823.6	811.9	815.9	808.0	804.1	804.1	796.3	796.3	796.3	780.7
55°	523.1	523.1	515.3	515.3	511.4	503.5	499.7	495.7	491.8	488.0	488.0
57.5°	292.7	296.6	285.0	281.0	285.0	281.0	273.3	273.3	273.3	261.6	269.3
60°	160.0	156.2	152.3	148.3	144.4	148.3	148.3	140.6	140.6	140.6	144.4
62.5°	85.8	85.8	81.9	81.9	78.1	78.1	85.8	74.2	78.1	74.2	78.1
65°	46.9	58.5	42.9	42.9	54.6	50.8	46.9	46.9	50.8	42.9	46.9
67.5°	50.8	35.2	31.2	35.2	31.2	31.2	31.2	39.0	35.2	27.3	35.2
70°	23.5	27.3	27.3	19.4	31.2	15.6	27.3	15.6	23.5	19.4	23.5
72.5°	23.5	23.5	23.5	15.6	23.5	15.6	19.4	19.4	15.6	15.6	23.5
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°	7.9	7.9	3.9	3.9	3.9	3.9	7.9	7.9	7.9	0.0	3.9
80°	7.9	7.9	0.0	3.9	0.0	0.0	3.9	0.0	3.9	0.0	7.9
82.5°	3.9	7.9	3.9	3.9	7.9	7.9	7.9	3.9	3.9	3.9	3.9
85°	0.0	3.9	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	3.9
87.5°	0.0	3.9	0.0	0.0	0.0	0.0	3.9	3.9	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: P250257

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8353.3	8353.3	8353.3	8353.3
2.5°	8575.9	8579.7	8587.6	8583.7
5°	9028.6	9059.9	9075.5	9071.7
7.5°	9454.1	9508.9	9540.0	9540.0
10°	9782.0	9844.5	9891.2	9899.1
12.5°	9957.6	10028.0	10090.5	10074.7
15°	10008.4	10078.7	10141.1	10129.4
17.5°	9949.9	10020.1	10067.0	10059.1
20°	9789.9	9848.3	9895.3	9891.2
22.5°	9540.0	9590.8	9629.8	9625.8
25°	9118.4	9153.6	9184.8	9169.2
27.5°	8470.5	8482.2	8501.6	8478.3
30°	7607.8	7615.5	7623.4	7619.6
32.5°	6639.8	6635.8	6628.1	6620.2
35°	5660.0	5660.0	5663.9	5640.4
37.5°	4769.9	4766.1	4777.8	4766.1
40°	3919.0	3915.2	3930.8	3911.3
42.5°	3056.4	3068.1	3072.0	3072.0
45°	2299.2	2303.0	2306.9	2306.9
47.5°	1678.5	1682.4	1702.0	1678.5
50°	1186.7	1190.6	1194.4	1186.7
52.5°	784.5	788.6	784.5	772.8
55°	480.1	484.1	484.1	484.1
57.5°	257.6	261.6	261.6	257.6
60°	140.6	136.6	140.6	132.7
62.5°	74.2	81.9	78.1	70.2
65°	46.9	46.9	46.9	54.6
67.5°	39.0	31.2	35.2	27.3
70°	23.5	27.3	27.3	19.4
72.5°	19.4	19.4	19.4	23.5
75°	0.0	0.0	0.0	0.0
77.5°	7.9	7.9	7.9	3.9
80°	3.9	0.0	3.9	0.0
82.5°	3.9	3.9	7.9	3.9
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)