

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: P250214

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250214
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: LSR8B120D010 EC8B120830 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: 12087.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

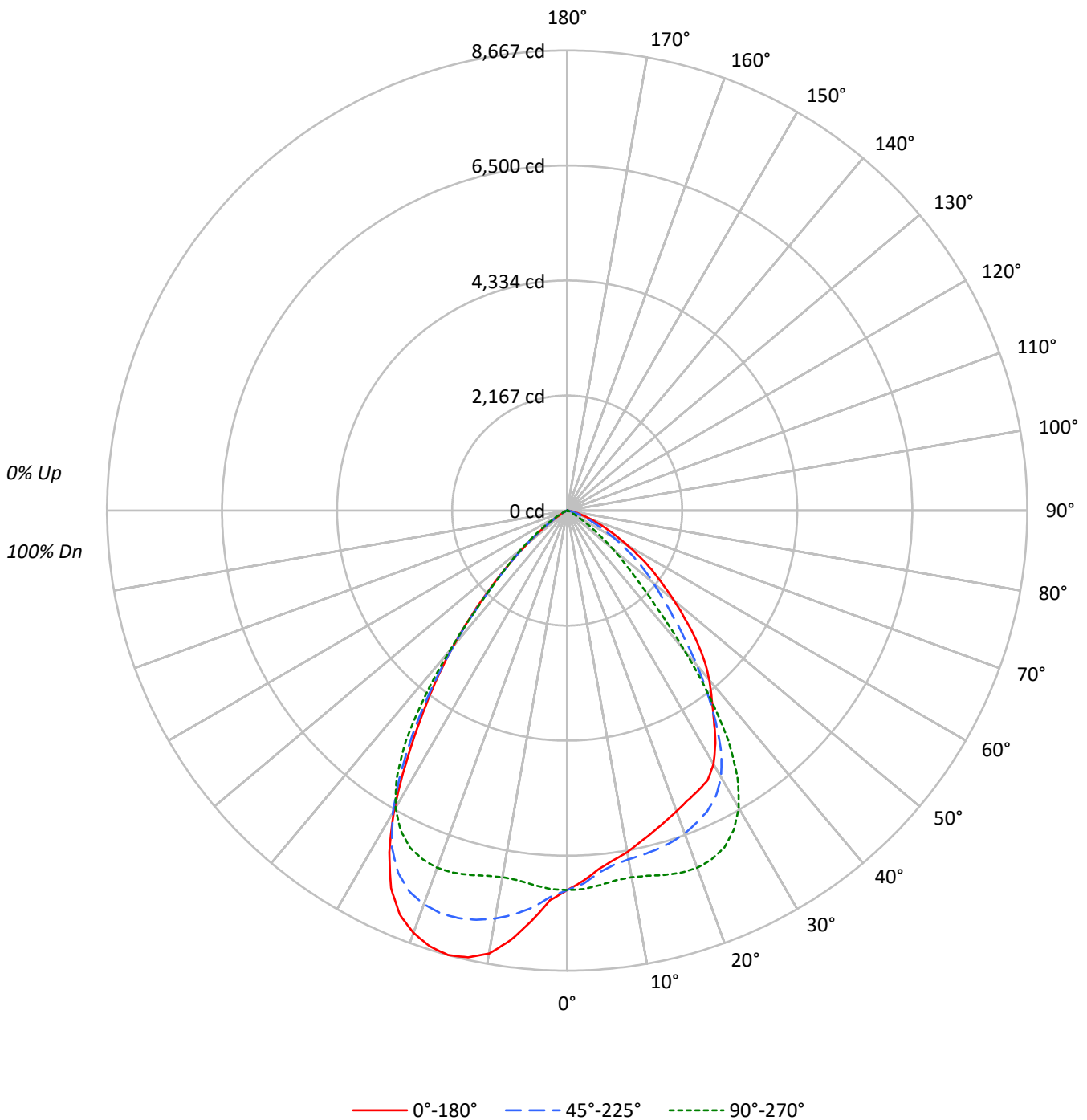
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	220390	220390	220390
5°	209965	219164	240256
10°	204549	219503	265200
15°	199912	226776	276673
20°	197709	234971	277713
25°	198173	238291	266923
30°	196335	230108	232131
35°	181419	199145	181667
40°	167646	138067	134710
45°	149283	83311	86076
50°	125607	53672	48707
55°	104502	29445	22268
60°	81568	12766	7000
65°	60189	6341	3407
70°	41852	3913	1497
75°	25473	798	0
80°	18379	1190	0
85°	11817	1168	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.1	5.7
10°-20°	2056.3	17.0
20°-30°	3149.1	26.1
30°-40°	3087.1	25.5
40°-50°	1859.1	15.4
50°-60°	855.7	7.1
60°-70°	300.6	2.5
70°-80°	78.6	0.7
80°-90°	13.4	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°	5892.5	48.8
0°-40°	8979.6	74.3
0°-60°	11694.4	96.8
0°-90°	12087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12087.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7147	7147	7147	7147	7147	
5°	6783	6847	7080	7504	7762	641
15°	6262	6599	7104	7945	8667	1769
25°	5824	6245	7004	7531	7845	2683
35°	4819	4886	5290	4986	4826	3018
45°	3423	2819	1910	1924	1974	2625
55°	1944	1540	548	431	414	1734
65°	825	571	87	43	47	840
75°	214	124	7	0	0	259
85°	33	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°	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1
2.5°	6980.0	6986.8	6986.8	6986.8	7000.1	7003.6	7000.1	7003.6	7010.2	7033.5	7043.6
5°	6783.1	6773.0	6779.8	6776.3	6793.1	6803.1	6796.4	6806.4	6829.8	6846.6	6863.2
7.5°	6642.8	6642.8	6642.8	6649.4	6659.5	6679.5	6676.2	6682.8	6706.2	6729.6	6752.9
10°	6532.6	6529.3	6529.3	6545.9	6559.3	6582.6	6589.4	6609.4	6639.4	6669.5	6696.2
12.5°	6388.9	6392.4	6409.0	6425.8	6455.7	6492.4	6512.5	6539.3	6586.1	6636.1	6666.2
15°	6262.1	6265.4	6278.8	6312.1	6348.9	6392.4	6435.7	6479.1	6535.9	6599.4	6652.9
17.5°	6138.5	6141.8	6151.8	6188.6	6235.4	6292.2	6342.2	6399.0	6472.5	6545.9	6612.7
20°	6024.9	6021.6	6038.3	6071.7	6131.9	6185.2	6235.4	6302.2	6382.3	6472.5	6549.2
22.5°	5914.7	5914.7	5931.4	5964.8	6018.3	6071.7	6125.1	6195.2	6275.4	6362.3	6452.4
25°	5824.5	5821.2	5844.6	5861.3	5901.3	5954.8	6011.6	6068.4	6148.5	6245.4	6332.2
27.5°	5727.7	5724.4	5727.7	5747.8	5784.5	5824.5	5867.9	5918.1	5984.9	6065.1	6148.5
30°	5514.0	5517.3	5517.3	5534.0	5554.1	5597.4	5620.8	5670.9	5731.0	5797.8	5871.4
32.5°	5196.7	5200.0	5200.0	5206.7	5223.3	5243.4	5263.5	5300.2	5346.9	5403.7	5470.5
35°	4819.3	4819.3	4815.9	4819.3	4829.4	4829.4	4846.0	4829.4	4852.7	4886.1	4936.2
37.5°	4472.0	4465.2	4458.6	4451.9	4441.8	4425.2	4401.8	4361.7	4351.7	4338.3	4341.6
40°	4164.7	4161.4	4141.3	4124.6	4091.2	4051.2	3994.4	3924.3	3867.5	3800.7	3743.9
42.5°	3824.1	3820.6	3804.0	3773.9	3737.2	3677.1	3586.9	3493.5	3379.9	3279.7	3176.2
45°	3423.2	3433.2	3409.9	3376.5	3333.0	3276.3	3176.2	3062.5	2949.0	2818.8	2688.5
47.5°	3005.7	3002.4	2985.8	2965.7	2929.0	2872.2	2805.4	2681.9	2561.6	2441.4	2307.8
50°	2618.3	2605.0	2598.3	2578.3	2555.0	2508.2	2438.0	2337.8	2231.0	2117.4	1993.8
52.5°	2251.0	2251.0	2234.3	2220.9	2200.9	2164.1	2104.1	2023.9	1933.8	1826.8	1696.6
55°	1943.8	1937.1	1920.4	1903.6	1883.6	1860.2	1806.9	1740.1	1643.1	1539.6	1426.1
57.5°	1616.5	1613.0	1606.4	1586.4	1576.3	1553.0	1492.9	1426.1	1342.6	1252.5	1158.9
60°	1322.6	1309.2	1295.8	1282.4	1265.8	1242.4	1202.3	1145.5	1075.4	995.3	901.8
62.5°	1058.8	1078.7	1038.7	1038.7	1005.3	985.2	948.5	915.1	841.6	768.2	688.0
65°	824.9	824.9	808.2	794.8	774.8	751.4	714.7	681.3	627.8	571.0	514.3
67.5°	631.3	627.8	611.2	597.8	581.1	567.7	541.1	500.9	460.9	414.2	367.3
70°	464.2	460.9	457.5	434.1	420.8	404.2	384.1	357.4	327.3	293.9	250.5
72.5°	333.9	333.9	324.0	314.0	300.6	287.2	267.2	250.5	223.8	200.4	170.3
75°	213.8	210.5	210.5	193.7	193.7	173.6	160.3	150.3	136.9	123.6	96.9
77.5°	153.7	150.3	147.0	140.2	133.6	126.9	116.8	103.5	93.5	80.1	70.1
80°	103.5	96.9	93.5	93.5	83.4	80.1	83.4	63.5	60.1	50.0	43.4
82.5°	63.5	63.5	60.1	60.1	56.8	53.5	43.4	43.4	40.1	36.7	30.1
85°	33.4	43.4	30.1	33.4	30.1	33.4	30.1	23.4	20.1	16.6	16.6
87.5°	20.1	13.3	13.3	20.1	16.6	13.3	13.3	13.3	10.0	6.7	6.7
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°	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1
2.5°	7037.0	7060.3	7056.9	7087.0	7097.0	7120.4	7120.4	7137.0	7147.1	7170.4	7190.5
5°	6869.9	6906.6	6916.7	6953.4	6983.5	7020.2	7043.6	7080.3	7113.7	7163.8	7210.6
7.5°	6766.4	6796.4	6816.5	6859.9	6893.3	6933.3	6973.4	7023.5	7070.2	7130.4	7197.2
10°	6716.2	6756.4	6786.4	6829.8	6869.9	6913.4	6953.4	7010.2	7063.6	7140.5	7213.9
12.5°	6702.9	6749.7	6786.4	6846.6	6886.6	6933.3	6980.0	7043.6	7100.3	7180.5	7264.1
15°	6702.9	6766.4	6816.5	6883.3	6930.0	6990.1	7040.3	7103.6	7167.1	7250.6	7330.7
17.5°	6689.6	6766.4	6829.8	6906.6	6966.7	7026.9	7090.3	7150.5	7217.2	7297.5	7387.5
20°	6636.1	6733.0	6809.7	6899.9	6963.4	7030.2	7093.7	7160.4	7230.6	7314.1	7390.9
22.5°	6542.6	6656.2	6743.1	6839.8	6913.4	6980.0	7043.6	7110.4	7187.2	7267.4	7347.5
25°	6419.0	6525.9	6619.5	6719.5	6793.1	6866.5	6926.7	7003.6	7073.7	7150.5	7213.9
27.5°	6231.9	6345.5	6435.7	6539.3	6606.0	6676.2	6726.3	6789.8	6856.6	6920.0	6970.1
30°	5951.5	6055.0	6148.5	6242.0	6308.8	6359.0	6412.3	6462.5	6505.9	6549.2	6592.7
32.5°	5540.6	5634.2	5724.4	5811.2	5864.6	5908.1	5948.1	5978.2	6001.6	6024.9	6028.2
35°	4976.3	5053.0	5109.8	5186.6	5236.8	5276.8	5276.8	5290.2	5286.9	5276.8	5266.8
37.5°	4345.1	4375.0	4398.4	4428.5	4431.8	4431.8	4411.9	4395.1	4368.4	4361.7	4341.6
40°	3687.2	3647.0	3616.9	3576.9	3553.5	3503.4	3460.1	3429.9	3386.5	3379.9	3373.2
42.5°	3062.5	2969.0	2885.6	2815.5	2735.3	2665.1	2601.7	2555.0	2521.6	2518.1	2521.6
45°	2555.0	2448.0	2324.4	2227.7	2137.5	2050.6	1967.2	1910.4	1880.3	1873.5	1880.3
47.5°	2170.9	2047.3	1927.0	1816.8	1720.0	1623.1	1539.6	1462.8	1426.1	1416.1	1412.8
50°	1866.9	1740.1	1613.0	1499.5	1392.7	1295.8	1192.3	1118.8	1072.1	1055.3	1042.0
52.5°	1569.7	1456.2	1325.9	1209.0	1102.1	988.5	881.7	798.1	751.4	731.5	718.0
55°	1309.2	1195.7	1075.4	961.9	848.3	734.8	627.8	547.7	497.6	474.3	457.5
57.5°	1045.3	938.5	835.0	721.4	627.8	517.7	410.8	340.6	297.2	270.5	257.2
60°	808.2	724.7	634.5	541.1	450.9	360.7	273.8	207.0	173.6	153.7	136.9
62.5°	611.2	541.1	480.9	400.7	330.6	253.8	187.1	133.6	103.5	86.9	80.1
65°	440.9	387.4	333.9	283.9	233.8	177.1	126.9	86.9	60.1	50.0	46.7
67.5°	314.0	270.5	230.4	197.0	160.3	126.9	90.2	60.1	46.7	40.1	36.7
70°	220.4	187.1	160.3	130.3	106.8	83.4	70.1	43.4	26.7	30.1	23.4
72.5°	147.0	123.6	110.2	90.2	73.4	60.1	43.4	30.1	30.1	23.4	20.1
75°	80.1	73.4	56.8	43.4	36.7	33.4	13.3	6.7	3.3	10.0	3.3
77.5°	56.8	50.0	43.4	36.7	30.1	23.4	13.3	13.3	10.0	13.3	6.7
80°	36.7	30.1	26.7	26.7	16.6	10.0	6.7	6.7	10.0	3.3	3.3
82.5°	23.4	20.1	16.6	16.6	16.6	10.0	10.0	10.0	10.0	6.7	6.7
85°	13.3	10.0	6.7	6.7	3.3	6.7	0.0	3.3	3.3	0.0	0.0
87.5°	6.7	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°	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1
2.5°	7203.8	7217.2	7233.9	7247.3	7277.4	7284.0	7297.5	7310.8	7320.8	7330.7	7334.2
5°	7250.6	7300.8	7347.5	7397.5	7461.0	7504.5	7554.5	7598.0	7641.4	7678.1	7704.8
7.5°	7264.1	7340.8	7411.0	7497.7	7591.2	7671.5	7754.9	7838.4	7925.3	7992.1	8048.9
10°	7290.7	7384.2	7474.4	7577.9	7698.2	7805.0	7908.5	8018.7	8129.0	8222.5	8306.1
12.5°	7337.5	7441.0	7537.9	7651.4	7775.0	7895.2	8008.7	8132.3	8249.3	8352.8	8446.3
15°	7414.3	7511.1	7604.7	7711.5	7835.1	7945.3	8058.9	8179.0	8296.0	8402.8	8489.7
17.5°	7464.3	7554.5	7648.0	7744.9	7848.4	7948.6	8055.5	8162.4	8269.2	8366.1	8446.3
20°	7464.3	7551.2	7621.3	7708.2	7805.0	7891.9	7978.7	8072.2	8165.7	8245.8	8322.7
22.5°	7404.3	7487.7	7541.2	7608.0	7691.4	7765.0	7811.7	7915.2	7985.3	8055.5	8112.2
25°	7264.1	7324.1	7367.6	7414.3	7481.1	7531.2	7571.3	7631.4	7701.5	7728.3	7768.3
27.5°	7010.2	7053.6	7077.0	7087.0	7120.4	7147.1	7153.8	7180.5	7210.6	7217.2	7233.9
30°	6609.4	6612.7	6602.7	6599.4	6582.6	6562.7	6559.3	6556.0	6542.6	6529.3	6532.6
32.5°	6004.9	5988.2	5948.1	5904.8	5861.3	5814.6	5787.8	5754.4	5734.3	5714.4	5691.0
35°	5223.3	5183.3	5126.6	5073.1	5023.1	4986.2	4926.1	4906.1	4886.1	4859.3	4852.7
37.5°	4304.9	4281.6	4228.1	4188.1	4161.4	4144.6	4114.5	4094.6	4094.6	4084.6	4077.8
40°	3356.4	3349.8	3329.7	3339.8	3326.4	3333.0	3329.7	3323.0	3339.8	3339.8	3346.5
42.5°	2518.1	2521.6	2531.6	2538.2	2558.3	2561.6	2578.3	2578.3	2588.4	2598.3	2605.0
45°	1873.5	1887.0	1887.0	1900.3	1920.4	1923.7	1930.3	1933.8	1940.4	1957.1	1963.7
47.5°	1406.0	1409.3	1409.3	1412.8	1419.4	1426.1	1422.8	1426.1	1436.1	1429.4	1436.1
50°	1038.7	1042.0	1032.0	1021.9	1032.0	1032.0	1028.7	1018.6	1028.7	1015.3	1021.9
52.5°	708.1	704.7	694.6	698.1	691.3	688.0	688.0	681.3	681.3	681.3	668.0
55°	447.6	447.6	440.9	440.9	437.6	430.8	427.5	424.1	420.8	417.5	417.5
57.5°	250.5	253.8	243.9	240.4	243.9	240.4	233.8	233.8	233.8	223.8	230.4
60°	136.9	133.6	130.3	126.9	123.6	126.9	126.9	120.3	120.3	120.3	123.6
62.5°	73.4	73.4	70.1	70.1	66.8	66.8	73.4	63.5	66.8	63.5	66.8
65°	40.1	50.0	36.7	36.7	46.7	43.4	40.1	40.1	43.4	36.7	40.1
67.5°	43.4	30.1	26.7	30.1	26.7	26.7	26.7	33.4	30.1	23.4	30.1
70°	20.1	23.4	23.4	16.6	26.7	13.3	23.4	13.3	20.1	16.6	20.1
72.5°	20.1	20.1	20.1	13.3	20.1	13.3	16.6	16.6	13.3	13.3	20.1
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°	6.7	6.7	3.3	3.3	3.3	3.3	6.7	6.7	6.7	0.0	3.3
80°	6.7	6.7	0.0	3.3	0.0	0.0	3.3	0.0	3.3	0.0	6.7
82.5°	3.3	6.7	3.3	3.3	6.7	6.7	6.7	3.3	3.3	3.3	3.3
85°	0.0	3.3	0.0	0.0	0.0	0.0	6.7	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: P250214

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7147.1	7147.1	7147.1	7147.1
2.5°	7337.5	7340.8	7347.5	7344.2
5°	7724.8	7751.7	7765.0	7761.7
7.5°	8088.9	8135.7	8162.4	8162.4
10°	8369.4	8422.9	8462.9	8469.6
12.5°	8519.7	8579.9	8633.4	8619.9
15°	8563.1	8623.3	8676.7	8666.6
17.5°	8513.1	8573.2	8613.3	8606.6
20°	8376.2	8426.2	8466.3	8462.9
22.5°	8162.4	8205.8	8239.2	8235.8
25°	7801.7	7831.8	7858.5	7845.1
27.5°	7247.3	7257.3	7274.0	7254.0
30°	6509.2	6515.8	6522.6	6519.3
32.5°	5681.0	5677.5	5670.9	5664.2
35°	4842.7	4842.7	4846.0	4825.9
37.5°	4081.1	4077.8	4087.9	4077.8
40°	3353.1	3349.8	3363.1	3346.5
42.5°	2615.0	2625.1	2628.4	2628.4
45°	1967.2	1970.5	1973.8	1973.8
47.5°	1436.1	1439.4	1456.2	1436.1
50°	1015.3	1018.6	1021.9	1015.3
52.5°	671.3	674.7	671.3	661.2
55°	410.8	414.2	414.2	414.2
57.5°	220.4	223.8	223.8	220.4
60°	120.3	116.8	120.3	113.5
62.5°	63.5	70.1	66.8	60.1
65°	40.1	40.1	40.1	46.7
67.5°	33.4	26.7	30.1	23.4
70°	20.1	23.4	23.4	16.6
72.5°	16.6	16.6	16.6	20.1
75°	0.0	0.0	0.0	0.0
77.5°	6.7	6.7	6.7	3.3
80°	3.3	0.0	3.3	0.0
82.5°	3.3	3.3	6.7	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)