

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: P250235

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250235
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 EC8B120850 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12731.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

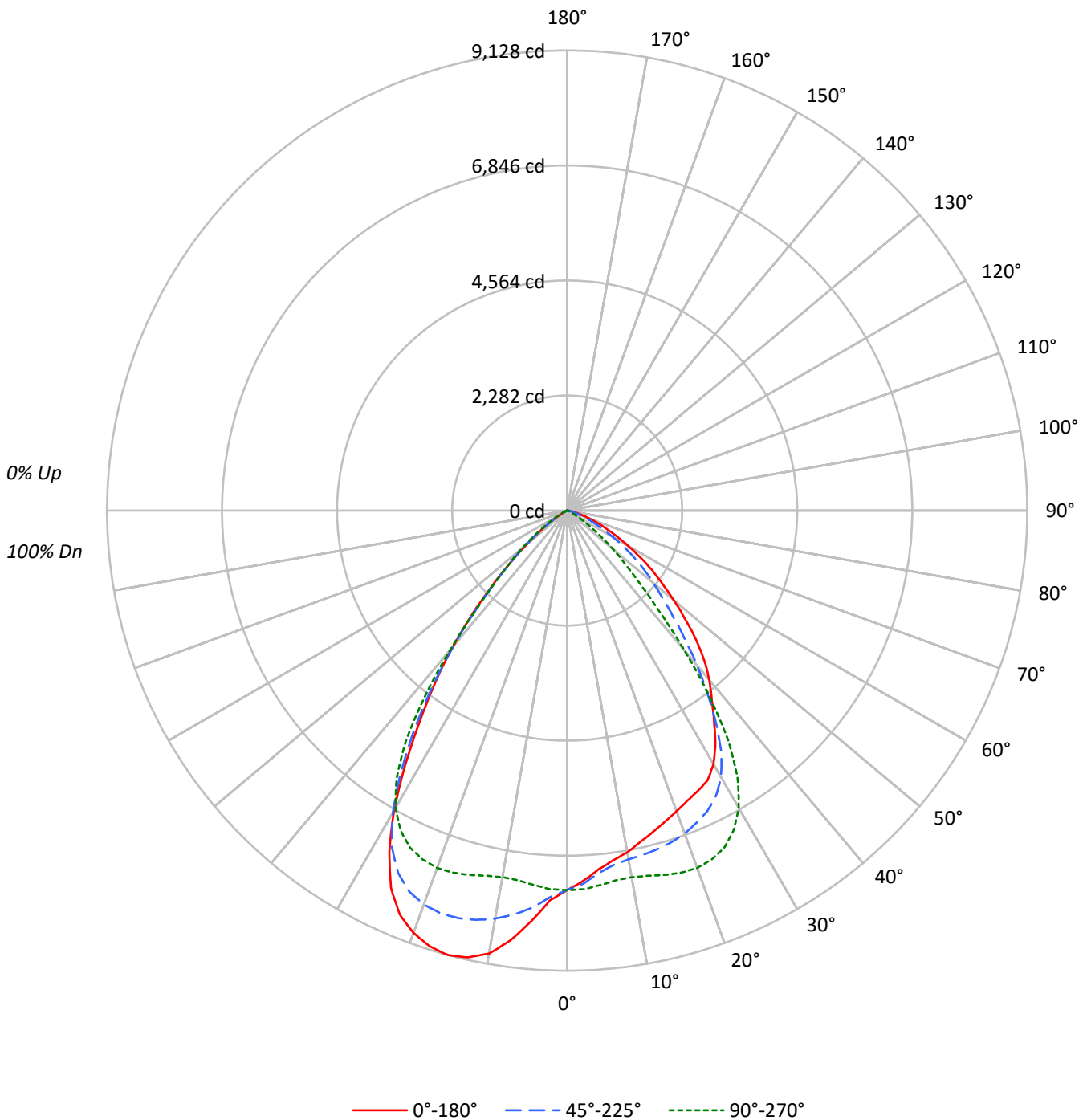
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	232133	232133	232133
5°	221152	230840	253056
10°	215445	231199	279331
15°	210562	238859	291416
20°	208243	247490	292509
25°	208731	250986	281145
30°	206793	242368	244497
35°	191086	209753	191349
40°	176578	145425	141887
45°	157237	87750	90659
50°	132299	56536	51302
55°	110071	31015	23456
60°	85910	13451	7376
65°	63399	6676	3590
70°	44088	4129	1578
75°	26831	846	0
80°	19356	1261	0
85°	12454	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.7	5.7
10°-20°	2165.9	17.0
20°-30°	3316.9	26.1
30°-40°	3251.6	25.5
40°-50°	1958.1	15.4
50°-60°	901.3	7.1
60°-70°	316.6	2.5
70°-80°	82.8	0.7
80°-90°	14.1	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°	6206.4	48.8
0°-40°	9458.1	74.3
0°-60°	12317.5	96.8
0°-90°	12731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12731.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7528	7528	7528	7528	7528	
5°	7144	7211	7458	7904	8175	675
15°	6596	6951	7482	8369	9128	1863
25°	6135	6578	7377	7932	8263	2826
35°	5076	5146	5572	5252	5083	3179
45°	3606	2969	2012	2026	2079	2765
55°	2047	1622	577	454	436	1827
65°	869	602	92	46	49	885
75°	225	130	7	0	0	273
85°	35	18	4	0	0	48
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°	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9
2.5°	7351.9	7359.0	7359.0	7359.0	7373.1	7376.7	7373.1	7376.7	7383.7	7408.3	7418.8
5°	7144.5	7133.9	7141.0	7137.4	7155.0	7165.6	7158.5	7169.1	7193.7	7211.4	7228.9
7.5°	6996.8	6996.8	6996.8	7003.7	7014.3	7035.4	7032.0	7038.9	7063.5	7088.1	7112.7
10°	6880.6	6877.2	6877.2	6894.7	6908.7	6933.4	6940.4	6961.6	6993.2	7024.9	7053.0
12.5°	6729.3	6733.0	6750.5	6768.1	6799.7	6838.4	6859.5	6887.7	6937.0	6989.7	7021.4
15°	6595.7	6599.2	6613.4	6648.4	6687.2	6733.0	6778.6	6824.3	6884.1	6951.0	7007.3
17.5°	6465.5	6469.0	6479.6	6518.4	6567.6	6627.4	6680.1	6739.9	6817.4	6894.7	6965.1
20°	6345.9	6342.5	6360.0	6395.2	6458.6	6514.8	6567.6	6638.0	6722.4	6817.4	6898.2
22.5°	6229.8	6229.8	6247.5	6282.7	6339.0	6395.2	6451.5	6525.3	6609.7	6701.3	6796.2
25°	6134.8	6131.4	6156.0	6173.6	6215.8	6272.1	6331.9	6391.7	6476.1	6578.2	6669.5
27.5°	6032.9	6029.4	6032.9	6054.0	6092.7	6134.8	6180.6	6233.4	6303.8	6388.2	6476.1
30°	5807.7	5811.2	5811.2	5828.9	5850.0	5895.6	5920.2	5973.1	6036.4	6106.7	6184.2
32.5°	5473.6	5477.0	5477.0	5484.1	5501.7	5522.8	5543.9	5582.6	5631.8	5691.6	5762.0
35°	5076.1	5076.1	5072.5	5076.1	5086.7	5086.7	5104.2	5086.7	5111.3	5146.5	5199.2
37.5°	4710.2	4703.1	4696.2	4689.1	4678.5	4661.0	4636.4	4594.1	4583.5	4569.5	4573.0
40°	4386.6	4383.1	4362.0	4344.3	4309.1	4267.0	4207.2	4133.4	4073.6	4003.2	3943.4
42.5°	4027.8	4024.2	4006.7	3975.0	3936.3	3873.0	3778.1	3679.6	3560.0	3454.4	3345.4
45°	3605.6	3616.2	3591.6	3556.4	3510.6	3450.8	3345.4	3225.7	3106.1	2969.0	2831.7
47.5°	3165.9	3162.4	3144.9	3123.7	3085.1	3025.3	2954.9	2824.7	2698.0	2571.5	2430.8
50°	2757.8	2743.8	2736.7	2715.7	2691.1	2641.9	2567.9	2462.3	2349.8	2230.2	2100.1
52.5°	2371.0	2371.0	2353.3	2339.3	2318.1	2279.5	2216.2	2131.8	2036.8	1924.1	1787.0
55°	2047.4	2040.3	2022.7	2005.1	1983.9	1959.3	1903.1	1832.8	1730.7	1621.7	1502.1
57.5°	1702.6	1699.0	1692.0	1670.9	1660.3	1635.7	1572.4	1502.1	1414.2	1319.2	1220.6
60°	1393.0	1379.0	1364.8	1350.8	1333.2	1308.6	1266.3	1206.5	1132.7	1048.3	949.8
62.5°	1115.2	1136.2	1094.0	1094.0	1058.9	1037.7	999.1	963.9	886.4	809.1	724.7
65°	868.9	868.9	851.2	837.2	816.0	791.4	752.8	717.6	661.3	601.5	541.7
67.5°	664.9	661.3	643.7	629.7	612.0	598.0	569.9	527.6	485.5	436.3	386.9
70°	489.0	485.5	481.9	457.3	443.2	425.7	404.5	376.5	344.7	309.6	263.8
72.5°	351.7	351.7	341.3	330.7	316.7	302.5	281.5	263.8	235.7	211.1	179.4
75°	225.2	221.7	221.7	204.0	204.0	182.9	168.8	158.3	144.2	130.2	102.1
77.5°	161.9	158.3	154.8	147.7	140.7	133.6	123.1	109.0	98.5	84.4	73.8
80°	109.0	102.1	98.5	98.5	87.9	84.4	87.9	66.9	63.3	52.7	45.8
82.5°	66.9	66.9	63.3	63.3	59.8	56.3	45.8	45.8	42.3	38.7	31.7
85°	35.2	45.8	31.7	35.2	31.7	35.2	31.7	24.6	21.1	17.5	17.5
87.5°	21.1	14.0	14.0	21.1	17.5	14.0	14.0	14.0	10.6	7.1	7.1
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°	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9
2.5°	7411.9	7436.5	7432.9	7464.6	7475.2	7499.8	7499.8	7517.3	7527.9	7552.5	7573.6
5°	7236.0	7274.6	7285.2	7323.9	7355.6	7394.2	7418.8	7457.5	7492.7	7545.5	7594.8
7.5°	7126.9	7158.5	7179.6	7225.4	7260.6	7302.7	7345.0	7397.7	7446.9	7510.3	7580.7
10°	7074.1	7116.4	7147.9	7193.7	7236.0	7281.7	7323.9	7383.7	7440.0	7520.9	7598.2
12.5°	7060.0	7109.3	7147.9	7211.4	7253.5	7302.7	7351.9	7418.8	7478.6	7563.1	7651.1
15°	7060.0	7126.9	7179.6	7250.0	7299.2	7362.5	7415.4	7482.1	7549.0	7636.9	7721.3
17.5°	7046.0	7126.9	7193.7	7274.6	7337.9	7401.3	7468.1	7531.5	7601.7	7686.3	7781.1
20°	6989.7	7091.8	7172.5	7267.5	7334.4	7404.8	7471.7	7541.9	7615.9	7703.8	7784.7
22.5°	6891.2	7010.8	7102.3	7204.3	7281.7	7351.9	7418.8	7489.2	7570.1	7654.6	7739.0
25°	6761.1	6873.6	6972.2	7077.6	7155.0	7232.3	7295.8	7376.7	7450.5	7531.5	7598.2
27.5°	6564.0	6683.6	6778.6	6887.7	6958.0	7032.0	7084.7	7151.6	7221.9	7288.7	7341.5
30°	6268.6	6377.6	6476.1	6574.6	6644.9	6697.8	6754.0	6806.8	6852.6	6898.2	6943.9
32.5°	5835.8	5934.4	6029.4	6120.8	6177.1	6222.9	6265.0	6296.7	6321.3	6345.9	6349.4
35°	5241.5	5322.3	5382.1	5463.0	5515.8	5558.0	5558.0	5572.0	5568.5	5558.0	5547.4
37.5°	4576.6	4608.1	4632.8	4664.5	4667.9	4667.9	4646.9	4629.3	4601.2	4594.1	4573.0
40°	3883.6	3841.3	3809.6	3767.5	3742.9	3690.0	3644.4	3612.7	3566.9	3560.0	3552.9
42.5°	3225.7	3127.2	3039.3	2965.5	2881.1	2807.1	2740.3	2691.1	2655.9	2652.3	2655.9
45°	2691.1	2578.5	2448.3	2346.4	2251.4	2159.9	2072.0	2012.2	1980.5	1973.4	1980.5
47.5°	2286.6	2156.4	2029.7	1913.6	1811.6	1709.6	1621.7	1540.7	1502.1	1491.5	1488.0
50°	1966.4	1832.8	1699.0	1579.4	1466.9	1364.8	1255.8	1178.5	1129.2	1111.6	1097.5
52.5°	1653.4	1533.8	1396.5	1273.4	1160.8	1041.2	928.7	840.7	791.4	770.4	756.2
55°	1379.0	1259.4	1132.7	1013.1	893.5	773.9	661.3	576.9	524.1	499.5	481.9
57.5°	1101.0	988.5	879.5	759.9	661.3	545.3	432.6	358.8	313.0	285.0	270.9
60°	851.2	763.3	668.4	569.9	474.9	379.9	288.4	218.1	182.9	161.9	144.2
62.5°	643.7	569.9	506.5	422.1	348.2	267.3	197.1	140.7	109.0	91.5	84.4
65°	464.3	408.0	351.7	299.0	246.3	186.5	133.6	91.5	63.3	52.7	49.2
67.5°	330.7	285.0	242.7	207.5	168.8	133.6	95.0	63.3	49.2	42.3	38.7
70°	232.1	197.1	168.8	137.3	112.5	87.9	73.8	45.8	28.1	31.7	24.6
72.5°	154.8	130.2	116.1	95.0	77.3	63.3	45.8	31.7	31.7	24.6	21.1
75°	84.4	77.3	59.8	45.8	38.7	35.2	14.0	7.1	3.5	10.6	3.5
77.5°	59.8	52.7	45.8	38.7	31.7	24.6	14.0	14.0	10.6	14.0	7.1
80°	38.7	31.7	28.1	28.1	17.5	10.6	7.1	7.1	10.6	3.5	3.5
82.5°	24.6	21.1	17.5	17.5	17.5	10.6	10.6	10.6	10.6	7.1	7.1
85°	14.0	10.6	7.1	7.1	3.5	7.1	0.0	3.5	3.5	0.0	0.0
87.5°	7.1	3.5	3.5	3.5	3.5	0.0	0.0	3.5	0.0	3.5	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°	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9	7527.9
2.5°	7587.7	7601.7	7619.4	7633.4	7665.1	7672.1	7686.3	7700.3	7710.9	7721.3	7724.9
5°	7636.9	7689.7	7739.0	7791.7	7858.6	7904.3	7957.0	8002.8	8048.5	8087.2	8115.3
7.5°	7651.1	7731.9	7805.9	7897.2	7995.7	8080.2	8168.1	8256.0	8347.5	8417.9	8477.7
10°	7679.2	7777.6	7872.6	7981.6	8108.3	8220.8	8329.9	8446.0	8562.1	8660.6	8748.6
12.5°	7728.4	7837.4	7939.5	8059.1	8189.3	8315.8	8435.4	8565.6	8688.8	8797.8	8896.3
15°	7809.3	7911.3	8009.9	8122.4	8252.5	8368.7	8488.3	8614.8	8738.0	8850.5	8942.0
17.5°	7862.0	7957.0	8055.5	8157.6	8266.6	8372.1	8484.7	8597.3	8709.8	8811.9	8896.3
20°	7862.0	7953.6	8027.4	8118.9	8220.8	8312.3	8403.9	8502.3	8600.8	8685.2	8766.1
22.5°	7798.8	7886.7	7943.0	8013.4	8101.2	8178.7	8227.9	8337.0	8410.8	8484.7	8544.5
25°	7651.1	7714.4	7760.1	7809.3	7879.7	7932.4	7974.7	8038.0	8111.8	8140.0	8182.2
27.5°	7383.7	7429.4	7454.0	7464.6	7499.8	7527.9	7535.0	7563.1	7594.8	7601.7	7619.4
30°	6961.6	6965.1	6954.5	6951.0	6933.4	6912.4	6908.7	6905.3	6891.2	6877.2	6880.6
32.5°	6324.8	6307.3	6265.0	6219.4	6173.6	6124.4	6096.2	6061.0	6039.8	6018.8	5994.2
35°	5501.7	5459.5	5399.7	5343.4	5290.7	5251.9	5188.6	5167.5	5146.5	5118.2	5111.3
37.5°	4534.3	4509.7	4453.4	4411.2	4383.1	4365.5	4333.8	4312.8	4312.8	4302.2	4295.1
40°	3535.2	3528.3	3507.1	3517.7	3503.7	3510.6	3507.1	3500.1	3517.7	3517.7	3524.8
42.5°	2652.3	2655.9	2666.5	2673.4	2694.6	2698.0	2715.7	2715.7	2726.3	2736.7	2743.8
45°	1973.4	1987.6	1987.6	2001.6	2022.7	2026.2	2033.2	2036.8	2043.7	2061.4	2068.3
47.5°	1480.9	1484.4	1484.4	1488.0	1495.0	1502.1	1498.6	1502.1	1512.6	1505.5	1512.6
50°	1094.0	1097.5	1087.0	1076.4	1087.0	1087.0	1083.5	1072.9	1083.5	1069.4	1076.4
52.5°	745.8	742.2	731.6	735.3	728.2	724.7	724.7	717.6	717.6	717.6	703.5
55°	471.4	471.4	464.3	464.3	460.9	453.8	450.3	446.7	443.2	439.7	439.7
57.5°	263.8	267.3	256.9	253.2	256.9	253.2	246.3	246.3	246.3	235.7	242.7
60°	144.2	140.7	137.3	133.6	130.2	133.6	133.6	126.7	126.7	126.7	130.2
62.5°	77.3	77.3	73.8	73.8	70.4	70.4	77.3	66.9	70.4	66.9	70.4
65°	42.3	52.7	38.7	38.7	49.2	45.8	42.3	42.3	45.8	38.7	42.3
67.5°	45.8	31.7	28.1	31.7	28.1	28.1	28.1	35.2	31.7	24.6	31.7
70°	21.1	24.6	24.6	17.5	28.1	14.0	24.6	14.0	21.1	17.5	21.1
72.5°	21.1	21.1	21.1	14.0	21.1	14.0	17.5	17.5	14.0	14.0	21.1
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°	7.1	7.1	3.5	3.5	3.5	3.5	7.1	7.1	7.1	0.0	3.5
80°	7.1	7.1	0.0	3.5	0.0	0.0	3.5	0.0	3.5	0.0	7.1
82.5°	3.5	7.1	3.5	3.5	7.1	7.1	7.1	3.5	3.5	3.5	3.5
85°	0.0	3.5	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	3.5
87.5°	0.0	3.5	0.0	0.0	0.0	0.0	3.5	3.5	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: P250235

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7527.9	7527.9	7527.9	7527.9
2.5°	7728.4	7731.9	7739.0	7735.5
5°	8136.4	8164.7	8178.7	8175.2
7.5°	8519.8	8569.2	8597.3	8597.3
10°	8815.4	8871.7	8913.8	8920.9
12.5°	8973.6	9037.0	9093.4	9079.2
15°	9019.4	9082.8	9139.0	9128.4
17.5°	8966.7	9029.9	9072.2	9065.1
20°	8822.5	8875.2	8917.4	8913.8
22.5°	8597.3	8643.1	8678.2	8674.6
25°	8217.4	8249.1	8277.2	8263.1
27.5°	7633.4	7644.0	7661.5	7640.5
30°	6856.0	6863.0	6870.1	6866.6
32.5°	5983.7	5980.0	5973.1	5966.0
35°	5100.7	5100.7	5104.2	5083.1
37.5°	4298.6	4295.1	4305.7	4295.1
40°	3531.8	3528.3	3542.3	3524.8
42.5°	2754.4	2764.9	2768.4	2768.4
45°	2072.0	2075.4	2078.9	2078.9
47.5°	1512.6	1516.1	1533.8	1512.6
50°	1069.4	1072.9	1076.4	1069.4
52.5°	707.0	710.6	707.0	696.4
55°	432.6	436.3	436.3	436.3
57.5°	232.1	235.7	235.7	232.1
60°	126.7	123.1	126.7	119.6
62.5°	66.9	73.8	70.4	63.3
65°	42.3	42.3	42.3	49.2
67.5°	35.2	28.1	31.7	24.6
70°	21.1	24.6	24.6	17.5
72.5°	17.5	17.5	17.5	21.1
75°	0.0	0.0	0.0	0.0
77.5°	7.1	7.1	7.1	3.5
80°	3.5	0.0	3.5	0.0
82.5°	3.5	3.5	7.1	3.5
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)