

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: P249710

Luminaire Tested: **LSR8B120D010 EC8B120830 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249710
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 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12534.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

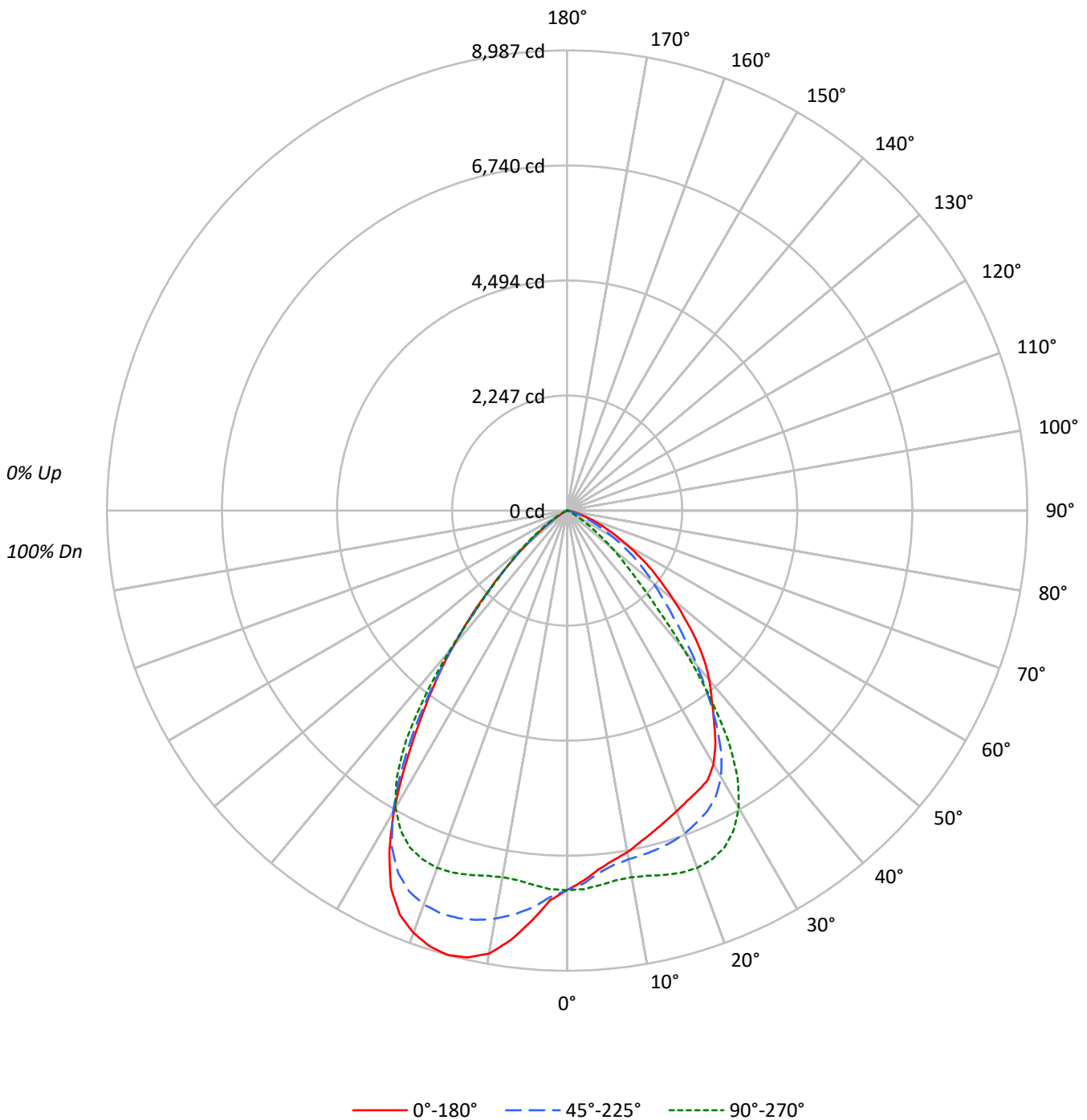
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	228540	228540	228540
5°	217728	227268	249140
10°	212114	227620	275010
15°	207302	235163	286905
20°	205020	243660	287984
25°	205502	247103	276796
30°	203596	238618	240712
35°	188131	206508	188387
40°	173845	143175	139693
45°	154804	86390	89259
50°	130256	55658	50511
55°	108367	30531	23091
60°	84584	13241	7259
65°	62414	6574	3539
70°	43403	4057	1551
75°	26414	834	0
80°	19054	1243	0
85°	12242	1203	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.5	5.7
10°-20°	2132.4	17.0
20°-30°	3265.5	26.1
30°-40°	3201.3	25.5
40°-50°	1927.8	15.4
50°-60°	887.3	7.1
60°-70°	311.7	2.5
70°-80°	81.5	0.7
80°-90°	13.9	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°	6110.4	48.8
0°-40°	9311.7	74.3
0°-60°	12126.9	96.8
0°-90°	12534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12534.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7411	7411	7411	7411	7411	
5°	7034	7100	7342	7782	8049	664
15°	6494	6844	7366	8239	8987	1835
25°	6040	6476	7263	7810	8135	2782
35°	4998	5067	5486	5171	5004	3130
45°	3550	2923	1981	1995	2047	2722
55°	2016	1597	568	447	430	1799
65°	855	592	90	45	48	871
75°	222	128	7	0	0	269
85°	35	17	3	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°	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4
2.5°	7238.2	7245.2	7245.2	7245.2	7259.0	7262.6	7259.0	7262.6	7269.4	7293.6	7304.0
5°	7033.9	7023.5	7030.5	7026.9	7044.3	7054.7	7047.7	7058.1	7082.4	7099.8	7117.0
7.5°	6888.5	6888.5	6888.5	6895.3	6905.8	6926.6	6923.1	6930.0	6954.2	6978.5	7002.7
10°	6774.2	6770.8	6770.8	6788.0	6801.8	6826.1	6833.1	6853.9	6884.9	6916.2	6943.8
12.5°	6625.2	6628.8	6646.0	6663.4	6694.5	6732.6	6753.4	6781.2	6829.6	6881.5	6912.7
15°	6493.6	6497.1	6511.0	6545.5	6583.7	6628.8	6673.7	6718.7	6777.6	6843.5	6898.9
17.5°	6365.5	6368.9	6379.3	6417.5	6466.0	6524.9	6576.7	6635.6	6711.9	6788.0	6857.3
20°	6247.7	6244.3	6261.6	6296.2	6358.6	6413.9	6466.0	6535.3	6618.4	6711.9	6791.4
22.5°	6133.4	6133.4	6150.8	6185.4	6240.9	6296.2	6351.7	6424.4	6507.5	6597.6	6691.1
25°	6039.9	6036.5	6060.7	6078.1	6119.6	6175.0	6233.9	6292.8	6375.9	6476.4	6566.3
27.5°	5939.5	5936.1	5939.5	5960.4	5998.4	6039.9	6084.9	6137.0	6206.3	6289.4	6375.9
30°	5717.9	5721.3	5721.3	5738.7	5759.5	5804.4	5828.6	5880.7	5943.0	6012.2	6088.5
32.5°	5388.9	5392.3	5392.3	5399.3	5416.5	5437.3	5458.1	5496.2	5544.7	5603.5	5672.8
35°	4997.6	4997.6	4994.0	4997.6	5008.0	5008.0	5025.2	5008.0	5032.2	5066.8	5118.7
37.5°	4637.3	4630.3	4623.5	4616.5	4606.1	4588.9	4564.6	4523.0	4512.6	4498.8	4502.2
40°	4318.7	4315.3	4294.5	4277.1	4242.5	4201.0	4142.1	4069.4	4010.5	3941.3	3882.4
42.5°	3965.5	3961.9	3944.7	3913.5	3875.4	3813.1	3719.6	3622.7	3504.9	3401.0	3293.6
45°	3549.8	3560.2	3536.0	3501.3	3456.3	3397.4	3293.6	3175.8	3058.0	2923.0	2787.9
47.5°	3116.9	3113.5	3096.2	3075.4	3037.3	2978.5	2909.2	2781.0	2656.3	2531.7	2393.1
50°	2715.2	2701.3	2694.4	2673.7	2649.5	2601.0	2528.1	2424.2	2313.5	2195.7	2067.6
52.5°	2334.3	2334.3	2316.9	2303.1	2282.2	2244.2	2181.9	2098.8	2005.3	1894.4	1759.4
55°	2015.7	2008.7	1991.4	1974.0	1953.2	1929.0	1873.7	1804.4	1703.9	1596.6	1478.8
57.5°	1676.3	1672.7	1665.9	1645.0	1634.6	1610.4	1548.1	1478.8	1392.3	1298.8	1201.7
60°	1371.5	1357.7	1343.7	1329.9	1312.6	1288.4	1246.8	1187.9	1115.2	1032.1	935.1
62.5°	1097.9	1118.6	1077.1	1077.1	1042.5	1021.7	983.6	949.0	872.7	796.6	713.5
65°	855.4	855.4	838.1	824.2	803.4	779.2	741.1	706.5	651.0	592.2	533.3
67.5°	654.6	651.0	633.8	620.0	602.6	588.7	561.1	519.5	478.0	429.5	380.9
70°	481.4	478.0	474.4	450.2	436.3	419.1	398.3	370.6	339.4	304.8	259.7
72.5°	346.3	346.3	336.0	325.6	311.8	297.8	277.1	259.7	232.1	207.8	176.6
75°	221.7	218.2	218.2	200.9	200.9	180.0	166.2	155.8	142.0	128.2	100.5
77.5°	159.4	155.8	152.4	145.4	138.6	131.6	121.2	107.3	96.9	83.1	72.7
80°	107.3	100.5	96.9	96.9	86.5	83.1	86.5	65.9	62.3	51.9	45.0
82.5°	65.9	65.9	62.3	62.3	58.9	55.5	45.0	45.0	41.6	38.1	31.2
85°	34.6	45.0	31.2	34.6	31.2	34.6	31.2	24.2	20.8	17.2	17.2
87.5°	20.8	13.8	13.8	20.8	17.2	13.8	13.8	13.8	10.4	7.0	7.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4
2.5°	7297.2	7321.4	7317.9	7349.1	7359.5	7383.7	7383.7	7401.0	7411.4	7435.6	7456.4
5°	7124.0	7162.1	7172.5	7210.5	7241.7	7279.8	7304.0	7342.1	7376.7	7428.8	7477.2
7.5°	7016.7	7047.7	7068.5	7113.6	7148.2	7189.7	7231.3	7283.2	7331.7	7394.1	7463.4
10°	6964.6	7006.3	7037.3	7082.4	7124.0	7169.0	7210.5	7269.4	7324.9	7404.5	7480.7
12.5°	6950.8	6999.3	7037.3	7099.8	7141.2	7189.7	7238.2	7304.0	7362.9	7446.0	7532.7
15°	6950.8	7016.7	7068.5	7137.8	7186.3	7248.6	7300.6	7366.3	7432.2	7518.7	7601.8
17.5°	6937.0	7016.7	7082.4	7162.1	7224.4	7286.8	7352.5	7414.9	7484.1	7567.3	7660.7
20°	6881.5	6982.0	7061.6	7155.1	7220.9	7290.2	7356.1	7425.2	7498.1	7584.6	7664.3
22.5°	6784.6	6902.3	6992.4	7092.8	7169.0	7238.2	7304.0	7373.3	7453.0	7536.1	7619.2
25°	6656.4	6767.2	6864.3	6968.0	7044.3	7120.4	7182.9	7262.6	7335.3	7414.9	7480.7
27.5°	6462.4	6580.2	6673.7	6781.2	6850.3	6923.1	6975.0	7040.9	7110.2	7175.9	7227.9
30°	6171.6	6279.0	6375.9	6472.8	6542.1	6594.1	6649.4	6701.5	6746.5	6791.4	6836.5
32.5°	5745.5	5842.6	5936.1	6026.1	6081.5	6126.6	6168.0	6199.3	6223.5	6247.7	6251.2
35°	5160.4	5239.9	5298.8	5378.5	5430.5	5472.0	5472.0	5485.8	5482.4	5472.0	5461.6
37.5°	4505.8	4536.8	4561.1	4592.3	4595.7	4595.7	4575.0	4557.6	4530.0	4523.0	4502.2
40°	3823.5	3781.9	3750.7	3709.2	3684.9	3632.9	3588.0	3556.8	3511.7	3504.9	3497.9
42.5°	3175.8	3078.8	2992.3	2919.6	2836.5	2763.6	2697.9	2649.5	2614.8	2611.3	2614.8
45°	2649.5	2538.6	2410.4	2310.0	2216.5	2126.4	2039.9	1981.0	1949.8	1942.8	1949.8
47.5°	2251.2	2123.0	1998.3	1884.0	1783.6	1683.1	1596.6	1516.9	1478.8	1468.4	1465.0
50°	1936.0	1804.4	1672.7	1554.9	1444.2	1343.7	1236.3	1160.2	1111.8	1094.4	1080.5
52.5°	1627.8	1510.0	1374.9	1253.7	1142.8	1025.1	914.3	827.7	779.2	758.5	744.5
55°	1357.7	1239.9	1115.2	997.4	879.7	761.9	651.0	567.9	516.0	491.8	474.4
57.5°	1084.0	973.2	865.9	748.1	651.0	536.8	425.9	353.2	308.2	280.5	266.7
60°	838.1	751.5	658.0	561.1	467.6	374.1	284.0	214.7	180.0	159.4	142.0
62.5°	633.8	561.1	498.6	415.5	342.8	263.1	194.0	138.6	107.3	90.1	83.1
65°	457.2	401.7	346.3	294.4	242.5	183.6	131.6	90.1	62.3	51.9	48.5
67.5°	325.6	280.5	238.9	204.3	166.2	131.6	93.5	62.3	48.5	41.6	38.1
70°	228.5	194.0	166.2	135.1	110.8	86.5	72.7	45.0	27.7	31.2	24.2
72.5°	152.4	128.2	114.3	93.5	76.1	62.3	45.0	31.2	31.2	24.2	20.8
75°	83.1	76.1	58.9	45.0	38.1	34.6	13.8	7.0	3.4	10.4	3.4
77.5°	58.9	51.9	45.0	38.1	31.2	24.2	13.8	13.8	10.4	13.8	7.0
80°	38.1	31.2	27.7	27.7	17.2	10.4	7.0	7.0	10.4	3.4	3.4
82.5°	24.2	20.8	17.2	17.2	17.2	10.4	10.4	10.4	10.4	7.0	7.0
85°	13.8	10.4	7.0	7.0	3.4	7.0	0.0	3.4	3.4	0.0	0.0
87.5°	7.0	3.4	3.4	3.4	3.4	0.0	0.0	3.4	0.0	3.4	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°	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4	7411.4
2.5°	7470.3	7484.1	7501.5	7515.3	7546.5	7553.4	7567.3	7581.2	7591.6	7601.8	7605.4
5°	7518.7	7570.8	7619.2	7671.1	7737.0	7782.0	7833.9	7878.9	7924.0	7962.1	7989.7
7.5°	7532.7	7612.2	7685.1	7775.0	7872.0	7955.2	8041.7	8128.3	8218.4	8287.6	8346.5
10°	7560.3	7657.3	7750.8	7858.1	7982.9	8093.6	8201.0	8315.3	8429.6	8526.6	8613.2
12.5°	7608.8	7716.2	7816.7	7934.4	8062.6	8187.1	8304.9	8433.0	8554.4	8661.7	8758.6
15°	7688.5	7788.9	7885.9	7996.7	8124.8	8239.2	8356.9	8481.5	8602.8	8713.6	8803.7
17.5°	7740.4	7833.9	7930.8	8031.3	8138.7	8242.6	8353.4	8464.3	8575.0	8675.5	8758.6
20°	7740.4	7830.5	7903.2	7993.3	8093.6	8183.7	8273.8	8370.8	8467.7	8550.8	8630.5
22.5°	7678.1	7764.6	7820.1	7889.4	7975.9	8052.1	8100.6	8208.0	8280.7	8353.4	8412.2
25°	7532.7	7595.0	7640.0	7688.5	7757.8	7809.7	7851.3	7913.6	7986.3	8014.1	8055.6
27.5°	7269.4	7314.4	7338.7	7349.1	7383.7	7411.4	7418.4	7446.0	7477.2	7484.1	7501.5
30°	6853.9	6857.3	6846.9	6843.5	6826.1	6805.4	6801.8	6798.4	6784.6	6770.8	6774.2
32.5°	6226.9	6209.7	6168.0	6123.1	6078.1	6029.6	6001.8	5967.2	5946.4	5925.7	5901.5
35°	5416.5	5375.0	5316.2	5260.7	5208.8	5170.6	5108.3	5087.5	5066.8	5039.0	5032.2
37.5°	4464.1	4439.9	4384.4	4343.0	4315.3	4297.9	4266.7	4246.0	4246.0	4235.6	4228.6
40°	3480.5	3473.7	3452.9	3463.3	3449.5	3456.3	3452.9	3445.9	3463.3	3463.3	3470.3
42.5°	2611.3	2614.8	2625.2	2632.1	2652.9	2656.3	2673.7	2673.7	2684.1	2694.4	2701.3
45°	1942.8	1956.8	1956.8	1970.6	1991.4	1994.9	2001.7	2005.3	2012.1	2029.5	2036.3
47.5°	1458.0	1461.4	1461.4	1465.0	1471.8	1478.8	1475.4	1478.8	1489.2	1482.2	1489.2
50°	1077.1	1080.5	1070.1	1059.7	1070.1	1070.1	1066.7	1056.3	1066.7	1052.9	1059.7
52.5°	734.3	730.7	720.3	723.9	716.9	713.5	713.5	706.5	706.5	706.5	692.7
55°	464.1	464.1	457.2	457.2	453.7	446.8	443.3	439.8	436.3	432.9	432.9
57.5°	259.7	263.1	252.9	249.3	252.9	249.3	242.5	242.5	242.5	232.1	238.9
60°	142.0	138.6	135.1	131.6	128.2	131.6	131.6	124.7	124.7	124.7	128.2
62.5°	76.1	76.1	72.7	72.7	69.3	69.3	76.1	65.9	69.3	65.9	69.3
65°	41.6	51.9	38.1	38.1	48.5	45.0	41.6	41.6	45.0	38.1	41.6
67.5°	45.0	31.2	27.7	31.2	27.7	27.7	27.7	34.6	31.2	24.2	31.2
70°	20.8	24.2	24.2	17.2	27.7	13.8	24.2	13.8	20.8	17.2	20.8
72.5°	20.8	20.8	20.8	13.8	20.8	13.8	17.2	17.2	13.8	13.8	20.8
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°	7.0	7.0	3.4	3.4	3.4	3.4	7.0	7.0	7.0	0.0	3.4
80°	7.0	7.0	0.0	3.4	0.0	0.0	3.4	0.0	3.4	0.0	7.0
82.5°	3.4	7.0	3.4	3.4	7.0	7.0	7.0	3.4	3.4	3.4	3.4
85°	0.0	3.4	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	3.4
87.5°	0.0	3.4	0.0	0.0	0.0	0.0	3.4	3.4	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: P249710

CATALOG NUMBER: LSR8B120D010 EC8B120830 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7411.4	7411.4	7411.4	7411.4
2.5°	7608.8	7612.2	7619.2	7615.8
5°	8010.5	8038.3	8052.1	8048.7
7.5°	8388.0	8436.6	8464.3	8464.3
10°	8678.9	8734.4	8775.9	8782.9
12.5°	8834.8	8897.2	8952.6	8938.7
15°	8879.8	8942.2	8997.5	8987.1
17.5°	8827.9	8890.2	8931.8	8924.8
20°	8685.9	8737.8	8779.4	8775.9
22.5°	8464.3	8509.3	8544.0	8540.4
25°	8090.2	8121.4	8149.1	8135.3
27.5°	7515.3	7525.7	7543.0	7522.3
30°	6749.9	6756.8	6763.8	6760.3
32.5°	5891.1	5887.5	5880.7	5873.7
35°	5021.8	5021.8	5025.2	5004.4
37.5°	4232.1	4228.6	4239.0	4228.6
40°	3477.1	3473.7	3487.5	3470.3
42.5°	2711.8	2722.2	2725.6	2725.6
45°	2039.9	2043.3	2046.8	2046.8
47.5°	1489.2	1492.7	1510.0	1489.2
50°	1052.9	1056.3	1059.7	1052.9
52.5°	696.1	699.6	696.1	685.7
55°	425.9	429.5	429.5	429.5
57.5°	228.5	232.1	232.1	228.5
60°	124.7	121.2	124.7	117.7
62.5°	65.9	72.7	69.3	62.3
65°	41.6	41.6	41.6	48.5
67.5°	34.6	27.7	31.2	24.2
70°	20.8	24.2	24.2	17.2
72.5°	17.2	17.2	17.2	20.8
75°	0.0	0.0	0.0	0.0
77.5°	7.0	7.0	7.0	3.4
80°	3.4	0.0	3.4	0.0
82.5°	3.4	3.4	7.0	3.4
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)