

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: P249776

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249776
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: LD8B200D010 ER8B2009727 8LBSWOLI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15919.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

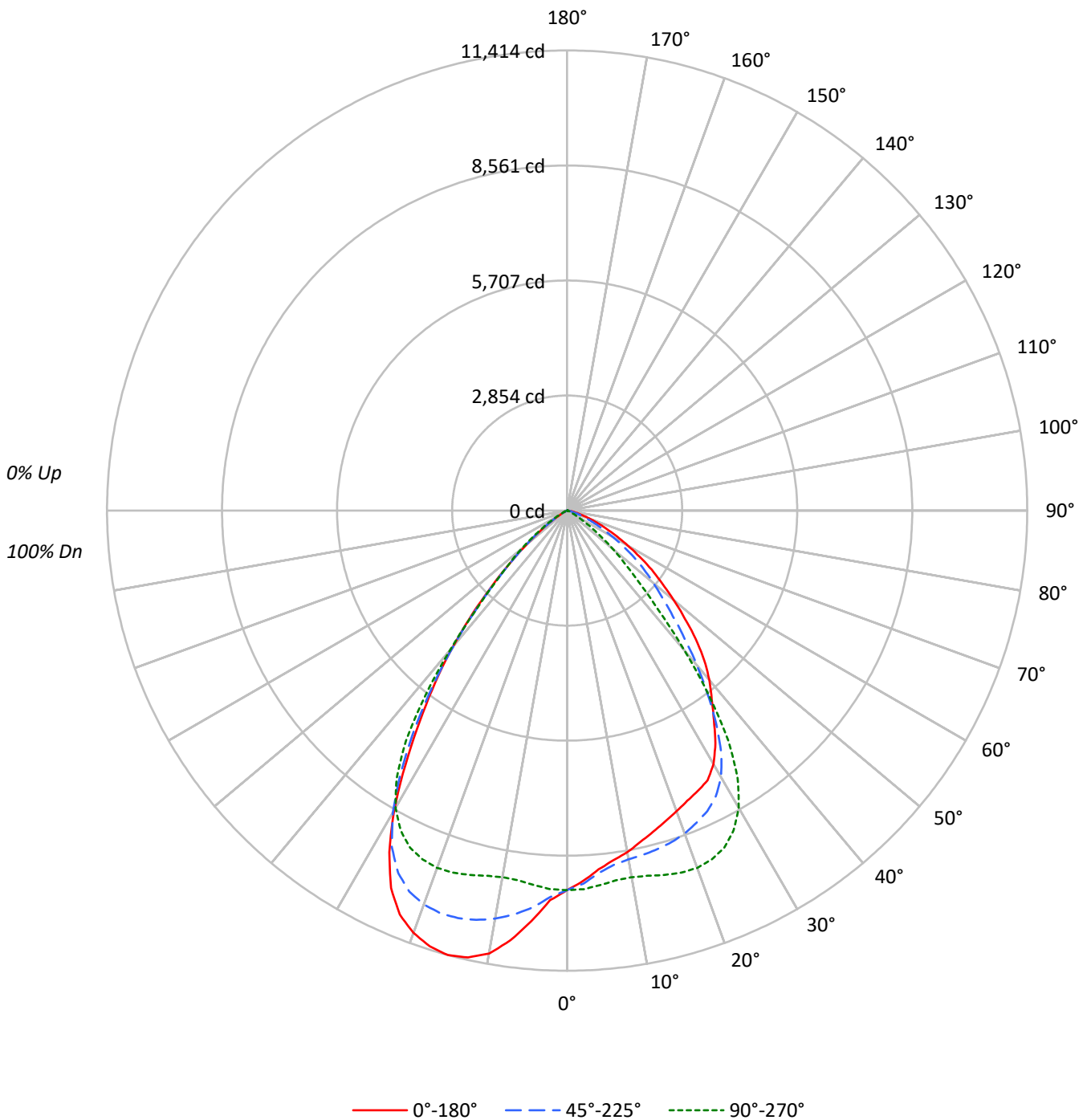
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.9	5.7
10°-20°	2708.3	17.0
20°-30°	4147.4	26.1
30°-40°	4065.9	25.5
40°-50°	2448.5	15.4
50°-60°	1127.0	7.1
60°-70°	395.9	2.5
70°-80°	103.6	0.7
80°-90°	17.6	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°	7760.6	48.8
0°-40°	11826.5	74.3
0°-60°	15401.9	96.8
0°-90°	15919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15919.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9413	9413	9413	9413	9413	
5°	8934	9017	9325	9884	10222	844
15°	8247	8692	9356	10464	11414	2330
25°	7671	8225	9224	9919	10332	3533
35°	6347	6435	6967	6567	6356	3975
45°	4508	3712	2516	2534	2600	3457
55°	2560	2028	721	567	546	2284
65°	1086	752	114	57	62	1107
75°	282	163	9	0	0	341
85°	44	22	4	0	0	60
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°	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9
2.5°	9193.0	9201.8	9201.8	9201.8	9219.4	9223.9	9219.4	9223.9	9232.6	9263.4	9276.6
5°	8933.5	8920.3	8929.2	8924.6	8946.7	8960.0	8951.1	8964.3	8995.1	9017.2	9039.1
7.5°	8748.8	8748.8	8748.8	8757.5	8770.8	8797.2	8792.8	8801.5	8832.3	8863.1	8893.9
10°	8603.6	8599.3	8599.3	8621.2	8638.8	8669.5	8678.4	8704.9	8744.3	8784.0	8819.1
12.5°	8414.5	8419.0	8440.9	8463.0	8502.4	8550.8	8577.2	8612.5	8674.1	8740.0	8779.6
15°	8247.3	8251.7	8269.4	8313.2	8361.8	8419.0	8476.0	8533.2	8608.0	8691.6	8762.1
17.5°	8084.6	8088.9	8102.1	8150.7	8212.2	8287.0	8352.9	8427.7	8524.5	8621.2	8709.2
20°	7935.0	7930.7	7952.6	7996.6	8075.9	8146.1	8212.2	8300.2	8405.8	8524.5	8625.6
22.5°	7789.8	7789.8	7811.9	7855.9	7926.3	7996.6	8067.0	8159.4	8264.9	8379.3	8498.1
25°	7671.1	7666.7	7697.5	7719.6	7772.3	7842.7	7917.5	7992.2	8097.8	8225.4	8339.7
27.5°	7543.6	7539.3	7543.6	7570.0	7618.4	7671.1	7728.3	7794.4	7882.3	7987.9	8097.8
30°	7262.1	7266.4	7266.4	7288.5	7314.9	7372.0	7402.7	7468.8	7547.9	7635.9	7732.8
32.5°	6844.2	6848.6	6848.6	6857.4	6879.3	6905.8	6932.2	6980.5	7042.1	7116.9	7204.9
35°	6347.2	6347.2	6342.7	6347.2	6360.4	6360.4	6382.4	6360.4	6391.2	6435.2	6501.1
37.5°	5889.7	5880.8	5872.2	5863.3	5850.1	5828.2	5797.4	5744.5	5731.3	5713.7	5718.1
40°	5485.1	5480.7	5454.3	5432.2	5388.2	5335.5	5260.8	5168.4	5093.6	5005.7	4930.9
42.5°	5036.4	5031.9	5010.0	4970.3	4922.0	4842.9	4724.1	4601.0	4451.5	4319.5	4183.1
45°	4508.5	4521.7	4490.9	4446.9	4389.7	4314.9	4183.1	4033.4	3883.9	3712.4	3540.8
47.5°	3958.6	3954.3	3932.4	3906.0	3857.6	3782.8	3694.9	3532.1	3373.7	3215.4	3039.5
50°	3448.4	3430.9	3422.0	3395.8	3365.0	3303.4	3210.9	3078.9	2938.3	2788.7	2625.9
52.5°	2964.7	2964.7	2942.6	2925.0	2898.6	2850.3	2771.1	2665.6	2546.8	2406.0	2234.5
55°	2560.0	2551.2	2529.3	2507.2	2480.7	2450.0	2379.7	2291.7	2164.1	2027.8	1878.2
57.5°	2129.0	2124.4	2115.7	2089.3	2076.1	2045.3	1966.2	1878.2	1768.3	1649.5	1526.2
60°	1741.9	1724.3	1706.6	1689.0	1667.1	1636.3	1583.5	1508.7	1416.3	1310.8	1187.7
62.5°	1394.4	1420.7	1368.0	1368.0	1324.0	1297.6	1249.2	1205.2	1108.4	1011.7	906.2
65°	1086.5	1086.5	1064.4	1046.8	1020.4	989.6	941.3	897.3	826.9	752.1	677.3
67.5°	831.4	826.9	804.9	787.4	765.3	747.7	712.6	659.7	607.1	545.5	483.8
70°	611.4	607.1	602.5	571.8	554.2	532.3	505.9	470.7	431.1	387.1	329.9
72.5°	439.8	439.8	426.7	413.5	396.0	378.2	352.0	329.9	294.7	264.0	224.3
75°	281.5	277.2	277.2	255.1	255.1	228.7	211.1	197.9	180.3	162.8	127.6
77.5°	202.4	197.9	193.5	184.7	176.0	167.1	153.9	136.3	123.1	105.6	92.3
80°	136.3	127.6	123.1	123.1	109.9	105.6	109.9	83.6	79.1	65.9	57.2
82.5°	83.6	83.6	79.1	79.1	74.8	70.4	57.2	57.2	52.9	48.3	39.6
85°	44.0	57.2	39.6	44.0	39.6	44.0	39.6	30.8	26.4	21.9	21.9
87.5°	26.4	17.6	17.6	26.4	21.9	17.6	17.6	17.6	13.2	8.9	8.9
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: P249776

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9
2.5°	9267.9	9298.7	9294.2	9333.8	9347.0	9377.8	9377.8	9399.7	9412.9	9443.7	9470.2
5°	9047.9	9096.3	9109.5	9157.8	9197.5	9245.8	9276.6	9324.9	9368.9	9435.0	9496.6
7.5°	8911.6	8951.1	8977.5	9034.7	9078.7	9131.4	9184.3	9250.2	9311.7	9391.0	9479.0
10°	8845.5	8898.4	8937.9	8995.1	9047.9	9105.2	9157.8	9232.6	9303.0	9404.2	9500.9
12.5°	8828.0	8889.5	8937.9	9017.2	9069.8	9131.4	9193.0	9276.6	9351.4	9456.9	9567.0
15°	8828.0	8911.6	8977.5	9065.5	9127.1	9206.2	9272.3	9355.7	9439.4	9549.3	9654.8
17.5°	8810.4	8911.6	8995.1	9096.3	9175.4	9254.7	9338.2	9417.5	9505.3	9611.0	9729.6
20°	8740.0	8867.6	8968.6	9087.4	9171.1	9259.0	9342.7	9430.5	9523.0	9632.9	9734.1
22.5°	8616.9	8766.4	8880.8	9008.3	9105.2	9193.0	9276.6	9364.6	9465.8	9571.4	9676.9
25°	8454.1	8594.8	8718.1	8849.9	8946.7	9043.4	9122.7	9223.9	9316.3	9417.5	9500.9
27.5°	8207.7	8357.2	8476.0	8612.5	8700.3	8792.8	8858.7	8942.4	9030.4	9113.8	9179.9
30°	7838.4	7974.7	8097.8	8220.9	8308.9	8375.0	8445.2	8511.3	8568.5	8625.6	8682.8
32.5°	7297.2	7420.5	7539.3	7653.5	7723.9	7781.1	7833.8	7873.5	7904.3	7935.0	7939.4
35°	6554.0	6655.0	6729.8	6831.0	6897.1	6949.8	6949.8	6967.3	6963.0	6949.8	6936.5
37.5°	5722.6	5762.1	5792.9	5832.5	5836.9	5836.9	5810.6	5788.5	5753.4	5744.5	5718.1
40°	4856.1	4803.2	4763.6	4710.9	4680.1	4614.0	4557.0	4517.4	4460.2	4451.5	4442.6
42.5°	4033.4	3910.3	3800.4	3708.1	3602.5	3510.0	3426.5	3365.0	3321.0	3316.5	3321.0
45°	3365.0	3224.1	3061.4	2933.9	2815.1	2700.7	2590.8	2516.0	2476.4	2467.5	2476.4
47.5°	2859.1	2696.4	2538.0	2392.7	2265.3	2137.7	2027.8	1926.5	1878.2	1865.0	1860.6
50°	2458.8	2291.7	2124.4	1974.9	1834.2	1706.6	1570.2	1473.6	1412.0	1389.9	1372.4
52.5°	2067.4	1917.9	1746.2	1592.3	1451.5	1301.9	1161.3	1051.2	989.6	963.4	945.6
55°	1724.3	1574.8	1416.3	1266.8	1117.3	967.7	826.9	721.3	655.4	624.6	602.5
57.5°	1376.7	1236.0	1099.7	950.1	826.9	681.8	541.0	448.6	391.4	356.3	338.7
60°	1064.4	954.5	835.7	712.6	593.8	475.1	360.7	272.7	228.7	202.4	180.3
62.5°	804.9	712.6	633.3	527.8	435.4	334.2	246.4	176.0	136.3	114.4	105.6
65°	580.6	510.2	439.8	373.9	308.0	233.2	167.1	114.4	79.1	65.9	61.6
67.5°	413.5	356.3	303.4	259.4	211.1	167.1	118.8	79.1	61.6	52.9	48.3
70°	290.2	246.4	211.1	171.6	140.7	109.9	92.3	57.2	35.1	39.6	30.8
72.5°	193.5	162.8	145.2	118.8	96.7	79.1	57.2	39.6	39.6	30.8	26.4
75°	105.6	96.7	74.8	57.2	48.3	44.0	17.6	8.9	4.3	13.2	4.3
77.5°	74.8	65.9	57.2	48.3	39.6	30.8	17.6	17.6	13.2	17.6	8.9
80°	48.3	39.6	35.1	35.1	21.9	13.2	8.9	8.9	13.2	4.3	4.3
82.5°	30.8	26.4	21.9	21.9	21.9	13.2	13.2	13.2	13.2	8.9	8.9
85°	17.6	13.2	8.9	8.9	4.3	8.9	0.0	4.3	4.3	0.0	0.0
87.5°	8.9	4.3	4.3	4.3	4.3	0.0	0.0	4.3	0.0	4.3	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°	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9	9412.9
2.5°	9487.7	9505.3	9527.4	9544.9	9584.6	9593.3	9611.0	9628.6	9641.8	9654.8	9659.3
5°	9549.3	9615.4	9676.9	9742.8	9826.5	9883.7	9949.6	10006.8	10064.0	10112.3	10147.5
7.5°	9567.0	9668.0	9760.6	9874.8	9997.9	10103.6	10213.5	10323.4	10437.9	10525.8	10600.6
10°	9602.1	9725.2	9844.0	9980.3	10138.8	10279.4	10415.8	10561.0	10706.2	10829.3	10939.4
12.5°	9663.7	9800.0	9927.7	10077.2	10240.0	10398.2	10547.8	10710.5	10864.6	11000.9	11124.0
15°	9764.9	9892.4	10015.7	10156.3	10319.1	10464.3	10613.8	10772.1	10926.1	11066.8	11181.2
17.5°	9830.8	9949.6	10072.7	10200.3	10336.7	10468.6	10609.3	10750.2	10890.8	11018.5	11124.0
20°	9830.8	9945.2	10037.6	10152.0	10279.4	10393.9	10508.3	10631.4	10754.5	10860.1	10961.3
22.5°	9751.7	9861.6	9932.0	10020.0	10129.9	10226.8	10288.3	10424.6	10517.0	10609.3	10684.1
25°	9567.0	9646.1	9703.3	9764.9	9852.9	9918.8	9971.7	10050.8	10143.1	10178.4	10231.1
27.5°	9232.6	9289.8	9320.6	9333.8	9377.8	9412.9	9421.8	9456.9	9496.6	9505.3	9527.4
30°	8704.9	8709.2	8696.0	8691.6	8669.5	8643.3	8638.8	8634.4	8616.9	8599.3	8603.6
32.5°	7908.6	7886.7	7833.8	7776.8	7719.6	7658.0	7622.7	7578.7	7552.3	7526.0	7495.3
35°	6879.3	6826.6	6751.9	6681.4	6615.5	6567.0	6487.9	6461.5	6435.2	6399.9	6391.2
37.5°	5669.7	5639.0	5568.5	5515.9	5480.7	5458.6	5419.0	5392.7	5392.7	5379.5	5370.6
40°	4420.5	4411.8	4385.4	4398.6	4381.0	4389.7	4385.4	4376.5	4398.6	4398.6	4407.5
42.5°	3316.5	3321.0	3334.2	3342.9	3369.3	3373.7	3395.8	3395.8	3409.0	3422.0	3430.9
45°	2467.5	2485.3	2485.3	2502.8	2529.3	2533.6	2542.3	2546.8	2555.5	2577.6	2586.3
47.5°	1851.8	1856.1	1856.1	1860.6	1869.3	1878.2	1873.9	1878.2	1891.4	1882.6	1891.4
50°	1368.0	1372.4	1359.1	1345.9	1359.1	1359.1	1354.8	1341.6	1354.8	1337.2	1345.9
52.5°	932.6	928.1	914.8	919.4	910.5	906.2	906.2	897.3	897.3	897.3	879.7
55°	589.5	589.5	580.6	580.6	576.3	567.4	563.1	558.5	554.2	549.8	549.8
57.5°	329.9	334.2	321.2	316.7	321.2	316.7	308.0	308.0	308.0	294.7	303.4
60°	180.3	176.0	171.6	167.1	162.8	167.1	167.1	158.4	158.4	158.4	162.8
62.5°	96.7	96.7	92.3	92.3	88.0	88.0	96.7	83.6	88.0	83.6	88.0
65°	52.9	65.9	48.3	48.3	61.6	57.2	52.9	52.9	57.2	48.3	52.9
67.5°	57.2	39.6	35.1	39.6	35.1	35.1	35.1	44.0	39.6	30.8	39.6
70°	26.4	30.8	30.8	21.9	35.1	17.6	30.8	17.6	26.4	21.9	26.4
72.5°	26.4	26.4	26.4	17.6	26.4	17.6	21.9	21.9	17.6	17.6	26.4
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°	8.9	8.9	4.3	4.3	4.3	4.3	8.9	8.9	8.9	0.0	4.3
80°	8.9	8.9	0.0	4.3	0.0	0.0	4.3	0.0	4.3	0.0	8.9
82.5°	4.3	8.9	4.3	4.3	8.9	8.9	8.9	4.3	4.3	4.3	4.3
85°	0.0	4.3	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	4.3
87.5°	0.0	4.3	0.0	0.0	0.0	0.0	4.3	4.3	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: P249776

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9412.9	9412.9	9412.9	9412.9
2.5°	9663.7	9668.0	9676.9	9672.6
5°	10173.9	10209.2	10226.8	10222.4
7.5°	10653.3	10715.0	10750.2	10750.2
10°	11022.8	11093.3	11145.9	11154.8
12.5°	11220.7	11300.0	11370.4	11352.7
15°	11277.9	11357.2	11427.5	11414.3
17.5°	11212.0	11291.1	11344.0	11335.1
20°	11031.7	11097.6	11150.5	11145.9
22.5°	10750.2	10807.4	10851.4	10846.8
25°	10275.1	10314.7	10349.9	10332.3
27.5°	9544.9	9558.1	9580.0	9553.8
30°	8572.9	8581.6	8590.4	8586.1
32.5°	7482.0	7477.5	7468.8	7460.0
35°	6378.0	6378.0	6382.4	6355.9
37.5°	5375.0	5370.6	5383.9	5370.6
40°	4416.2	4411.8	4429.4	4407.5
42.5°	3444.1	3457.3	3461.7	3461.7
45°	2590.8	2595.2	2599.5	2599.5
47.5°	1891.4	1895.8	1917.9	1891.4
50°	1337.2	1341.6	1345.9	1337.2
52.5°	884.1	888.6	884.1	870.8
55°	541.0	545.5	545.5	545.5
57.5°	290.2	294.7	294.7	290.2
60°	158.4	153.9	158.4	149.5
62.5°	83.6	92.3	88.0	79.1
65°	52.9	52.9	52.9	61.6
67.5°	44.0	35.1	39.6	30.8
70°	26.4	30.8	30.8	21.9
72.5°	21.9	21.9	21.9	26.4
75°	0.0	0.0	0.0	0.0
77.5°	8.9	8.9	8.9	4.3
80°	4.3	0.0	4.3	0.0
82.5°	4.3	4.3	8.9	4.3
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)