

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: P249762

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249762
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 ER8B200940 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20363.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

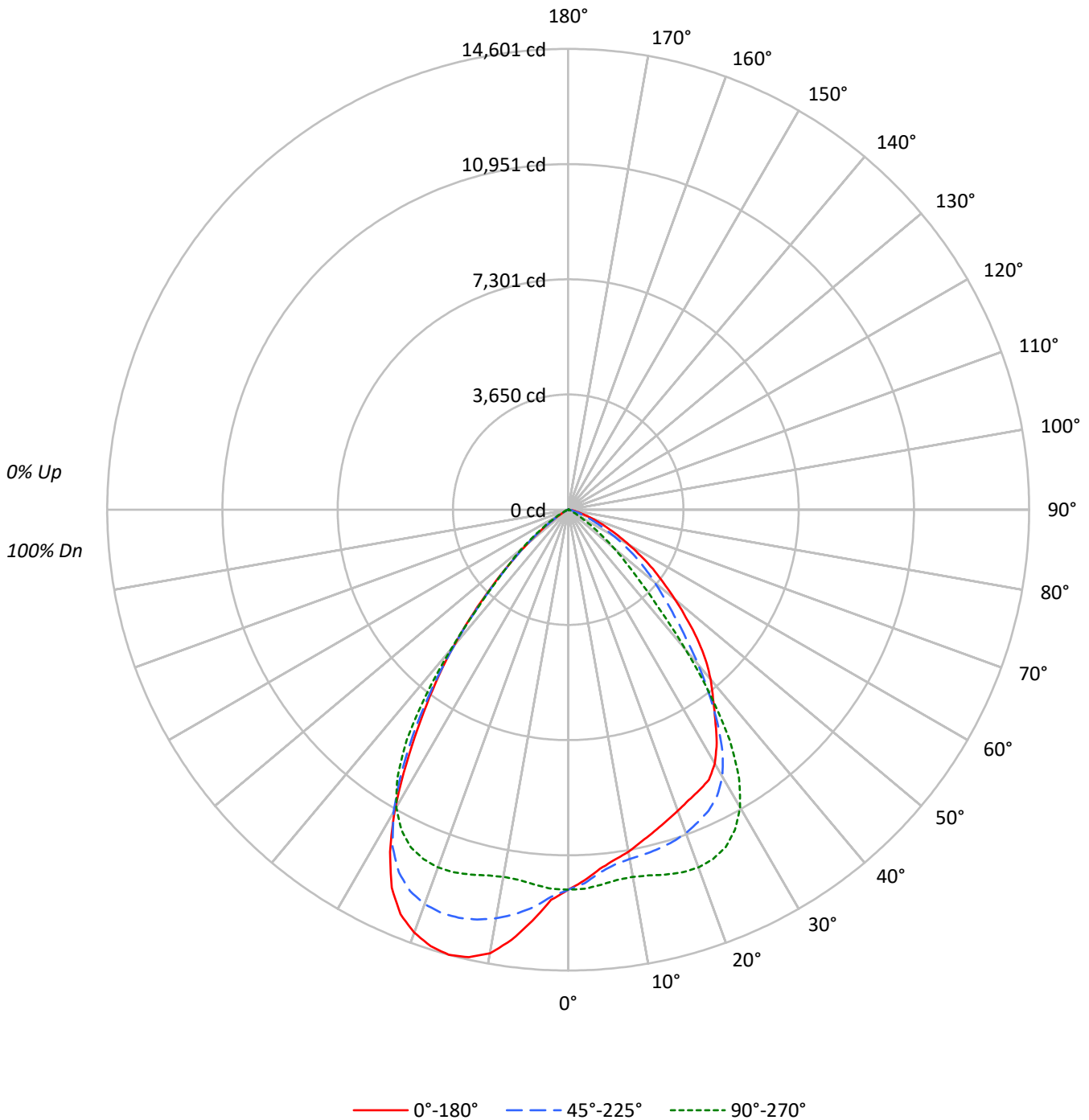
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	371291	371291	371291
5°	353725	369224	404759
10°	344604	369795	446785
15°	336790	382052	466114
20°	333082	395854	467864
25°	333862	401447	449686
30°	330765	387664	391068
35°	305637	335496	306059
40°	282434	232603	226948
45°	251498	140352	145009
50°	211613	90424	82057
55°	176053	49606	37515
60°	137413	21511	11798
65°	101407	10682	5742
70°	70514	6600	2524
75°	42903	1346	0
80°	30970	2007	0
85°	19919	1981	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1157.5	5.7
10°-20°	3464.3	17.0
20°-30°	5305.3	26.1
30°-40°	5200.9	25.5
40°-50°	3132.0	15.4
50°-60°	1441.6	7.1
60°-70°	506.4	2.5
70°-80°	132.5	0.7
80°-90°	22.6	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°	9927.1	48.8
0°-40°	15128.0	74.3
0°-60°	19701.6	96.8
0°-90°	20363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20363.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12041	12041	12041	12041	12041	
5°	11427	11534	11928	12643	13076	###
15°	10550	11118	11968	13386	14601	2981
25°	9812	10522	11799	12688	13217	4519
35°	8119	8232	8912	8400	8130	5085
45°	5767	4749	3218	3241	3325	4422
55°	3275	2594	923	726	698	2922
65°	1390	962	146	73	79	1416
75°	360	208	11	0	0	437
85°	56	28	6	0	0	77
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°	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7
2.5°	11759.3	11770.6	11770.6	11770.6	11793.1	11798.9	11793.1	11798.9	11810.0	11849.4	11866.3
5°	11427.4	11410.5	11421.9	11416.1	11444.3	11461.2	11449.9	11466.8	11506.2	11534.4	11562.4
7.5°	11191.2	11191.2	11191.2	11202.3	11219.2	11253.0	11247.5	11258.6	11298.0	11337.3	11376.7
10°	11005.5	10999.9	10999.9	11027.9	11050.4	11089.8	11101.1	11134.9	11185.4	11236.1	11281.1
12.5°	10763.5	10769.2	10797.3	10825.5	10876.0	10937.8	10971.7	11016.8	11095.6	11179.9	11230.6
15°	10549.7	10555.3	10578.0	10634.0	10696.1	10769.2	10842.2	10915.4	11011.0	11118.0	11208.1
17.5°	10341.5	10347.1	10364.0	10426.0	10504.8	10600.4	10684.7	10780.4	10904.3	11027.9	11140.5
20°	10150.2	10144.6	10172.7	10228.9	10330.4	10420.2	10504.8	10617.3	10752.3	10904.3	11033.5
22.5°	9964.5	9964.5	9992.7	10049.0	10139.1	10228.9	10319.0	10437.1	10572.2	10718.5	10870.5
25°	9812.5	9807.0	9846.4	9874.6	9942.0	10032.1	10127.7	10223.4	10358.4	10521.7	10667.8
27.5°	9649.5	9643.9	9649.5	9683.3	9745.1	9812.5	9885.7	9970.3	10082.8	10217.8	10358.4
30°	9289.4	9294.9	9294.9	9323.2	9357.0	9430.0	9469.3	9553.9	9655.1	9767.6	9891.5
32.5°	8754.9	8760.4	8760.4	8771.8	8799.8	8833.6	8867.4	8929.3	9008.0	9103.6	9216.2
35°	8119.1	8119.1	8113.4	8119.1	8136.0	8136.0	8164.1	8136.0	8175.4	8231.7	8316.0
37.5°	7533.9	7522.6	7511.4	7500.1	7483.2	7455.2	7415.8	7348.2	7331.3	7308.8	7314.4
40°	7016.3	7010.7	6976.9	6948.7	6892.4	6825.0	6729.4	6611.2	6515.6	6403.0	6307.4
42.5°	6442.4	6436.6	6408.6	6357.9	6296.1	6194.8	6042.9	5885.4	5694.1	5525.3	5350.9
45°	5767.1	5784.0	5744.6	5688.4	5615.2	5519.5	5350.9	5159.4	4968.1	4748.8	4529.2
47.5°	5063.8	5058.2	5030.2	4996.4	4934.5	4838.9	4726.3	4518.1	4315.5	4113.1	3888.0
50°	4411.1	4388.7	4377.3	4343.7	4304.4	4225.6	4107.3	3938.4	3758.5	3567.2	3359.0
52.5°	3792.3	3792.3	3764.1	3741.6	3707.8	3645.9	3544.7	3409.7	3257.8	3077.6	2858.3
55°	3274.7	3263.4	3235.3	3207.1	3173.3	3133.9	3044.0	2931.5	2768.2	2593.8	2402.5
57.5°	2723.3	2717.5	2706.4	2672.6	2655.7	2616.3	2515.1	2402.5	2262.0	2110.0	1952.3
60°	2228.1	2205.7	2183.0	2160.5	2132.5	2093.1	2025.5	1929.9	1811.7	1676.7	1519.2
62.5°	1783.7	1817.3	1749.9	1749.9	1693.6	1659.8	1598.0	1541.7	1417.8	1294.1	1159.1
65°	1389.8	1389.8	1361.5	1339.1	1305.3	1265.9	1204.0	1147.8	1057.7	962.0	866.4
67.5°	1063.5	1057.7	1029.7	1007.2	978.9	956.5	911.5	843.9	776.5	697.8	618.8
70°	782.1	776.5	770.7	731.4	708.9	680.9	647.1	602.1	551.4	495.1	422.0
72.5°	562.5	562.5	545.9	529.0	506.5	483.8	450.2	422.0	377.0	337.7	286.9
75°	360.1	354.6	354.6	326.3	326.3	292.5	270.0	253.1	230.7	208.2	163.3
77.5°	258.9	253.1	247.6	236.2	225.1	213.8	196.9	174.4	157.5	135.0	118.1
80°	174.4	163.3	157.5	157.5	140.6	135.0	140.6	107.0	101.2	84.3	73.2
82.5°	107.0	107.0	101.2	101.2	95.6	90.1	73.2	73.2	67.6	61.8	50.7
85°	56.3	73.2	50.7	56.3	50.7	56.3	50.7	39.4	33.8	28.0	28.0
87.5°	33.8	22.5	22.5	33.8	28.0	22.5	22.5	22.5	16.9	11.3	11.3
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°	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7
2.5°	11855.2	11894.6	11888.8	11939.5	11956.4	11995.8	11995.8	12023.8	12040.7	12080.1	12113.9
5°	11573.8	11635.6	11652.5	11714.4	11765.1	11826.9	11866.3	11928.1	11984.4	12068.9	12147.7
7.5°	11399.4	11449.9	11483.7	11556.9	11613.2	11680.6	11748.2	11832.5	11911.2	12012.7	12125.2
10°	11314.9	11382.5	11433.0	11506.2	11573.8	11647.0	11714.4	11810.0	11900.1	12029.6	12153.2
12.5°	11292.4	11371.2	11433.0	11534.4	11601.8	11680.6	11759.3	11866.3	11961.9	12097.0	12237.8
15°	11292.4	11399.4	11483.7	11596.3	11675.0	11776.2	11860.7	11967.5	12074.5	12215.1	12350.1
17.5°	11269.9	11399.4	11506.2	11635.6	11736.8	11838.3	11945.0	12046.5	12158.8	12294.0	12445.7
20°	11179.9	11343.1	11472.4	11624.3	11731.3	11843.8	11950.8	12063.1	12181.5	12322.1	12451.5
22.5°	11022.4	11213.7	11360.0	11523.1	11647.0	11759.3	11866.3	11978.9	12108.3	12243.3	12378.3
25°	10814.2	10994.1	11151.8	11320.4	11444.3	11568.0	11669.4	11798.9	11917.0	12046.5	12153.2
27.5°	10499.0	10690.3	10842.2	11016.8	11129.1	11247.5	11331.8	11438.8	11551.3	11658.1	11742.6
30°	10026.5	10200.9	10358.4	10515.9	10628.4	10713.0	10802.8	10887.4	10960.5	11033.5	11106.7
32.5°	9334.3	9492.0	9643.9	9790.1	9880.2	9953.3	10020.7	10071.5	10110.8	10150.2	10155.8
35°	8383.6	8512.8	8608.5	8738.0	8822.5	8889.9	8889.9	8912.3	8906.8	8889.9	8873.0
37.5°	7320.2	7370.6	7410.0	7460.7	7466.3	7466.3	7432.7	7404.5	7359.5	7348.2	7314.4
40°	6211.8	6144.1	6093.4	6026.0	5986.6	5902.1	5829.2	5778.4	5705.3	5694.1	5682.8
42.5°	5159.4	5001.9	4861.3	4743.2	4608.2	4489.9	4383.1	4304.4	4248.1	4242.3	4248.1
45°	4304.4	4124.2	3916.0	3752.9	3601.0	3454.7	3314.1	3218.4	3167.7	3156.4	3167.7
47.5°	3657.3	3449.1	3246.5	3060.7	2897.7	2734.4	2593.8	2464.4	2402.5	2385.6	2380.1
50°	3145.2	2931.5	2717.5	2526.2	2346.3	2183.0	2008.6	1884.9	1806.2	1777.9	1755.5
52.5°	2644.5	2453.3	2233.7	2036.8	1856.7	1665.4	1485.4	1344.6	1265.9	1232.3	1209.6
55°	2205.7	2014.4	1811.7	1620.4	1429.2	1237.9	1057.7	922.7	838.4	799.0	770.7
57.5°	1761.0	1581.1	1406.7	1215.4	1057.7	872.2	692.0	573.9	500.7	455.8	433.3
60°	1361.5	1221.0	1069.0	911.5	759.6	607.7	461.3	348.8	292.5	258.9	230.7
62.5°	1029.7	911.5	810.1	675.1	557.0	427.5	315.2	225.1	174.4	146.4	135.0
65°	742.7	652.6	562.5	478.2	393.9	298.3	213.8	146.4	101.2	84.3	78.7
67.5°	529.0	455.8	388.1	331.9	270.0	213.8	151.9	101.2	78.7	67.6	61.8
70°	371.2	315.2	270.0	219.5	179.9	140.6	118.1	73.2	44.9	50.7	39.4
72.5°	247.6	208.2	185.7	151.9	123.7	101.2	73.2	50.7	50.7	39.4	33.8
75°	135.0	123.7	95.6	73.2	61.8	56.3	22.5	11.3	5.6	16.9	5.6
77.5°	95.6	84.3	73.2	61.8	50.7	39.4	22.5	22.5	16.9	22.5	11.3
80°	61.8	50.7	44.9	44.9	28.0	16.9	11.3	11.3	16.9	5.6	5.6
82.5°	39.4	33.8	28.0	28.0	28.0	16.9	16.9	16.9	16.9	11.3	11.3
85°	22.5	16.9	11.3	11.3	5.6	11.3	0.0	5.6	5.6	0.0	0.0
87.5°	11.3	5.6	5.6	5.6	5.6	0.0	0.0	5.6	0.0	5.6	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°	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7	12040.7
2.5°	12136.3	12158.8	12187.1	12209.5	12260.2	12271.4	12294.0	12316.5	12333.4	12350.1	12355.9
5°	12215.1	12299.6	12378.3	12462.6	12569.6	12642.8	12727.1	12800.3	12873.5	12935.3	12980.3
7.5°	12237.8	12367.0	12485.3	12631.5	12789.0	12924.2	13064.8	13205.4	13351.7	13464.3	13559.9
10°	12282.7	12440.2	12592.1	12766.5	12969.1	13149.1	13323.5	13509.2	13694.9	13852.4	13993.2
12.5°	12361.4	12535.8	12699.1	12890.4	13098.6	13301.0	13492.3	13700.5	13897.6	14072.0	14229.5
15°	12490.9	12653.9	12811.7	12991.6	13199.8	13385.5	13576.8	13779.2	13976.3	14156.3	14302.6
17.5°	12575.2	12727.1	12884.6	13047.9	13222.3	13391.1	13571.0	13751.2	13931.2	14094.4	14229.5
20°	12575.2	12721.6	12839.7	12986.0	13149.1	13295.4	13441.8	13599.3	13756.8	13891.8	14021.3
22.5°	12474.0	12614.6	12704.7	12817.2	12957.8	13081.7	13160.4	13334.8	13452.9	13571.0	13666.7
25°	12237.8	12339.0	12412.2	12490.9	12603.5	12687.8	12755.4	12856.6	12974.7	13019.9	13087.2
27.5°	11810.0	11883.2	11922.6	11939.5	11995.8	12040.7	12052.0	12097.0	12147.7	12158.8	12187.1
30°	11134.9	11140.5	11123.6	11118.0	11089.8	11056.2	11050.4	11044.8	11022.4	10999.9	11005.5
32.5°	10116.4	10088.4	10020.7	9947.8	9874.6	9795.9	9750.7	9694.4	9660.6	9627.0	9587.7
35°	8799.8	8732.4	8636.7	8546.7	8462.4	8400.3	8299.1	8265.3	8231.7	8186.5	8175.4
37.5°	7252.5	7213.2	7123.1	7055.7	7010.7	6982.5	6931.8	6898.2	6898.2	6881.3	6869.9
40°	5654.5	5643.4	5609.6	5626.5	5604.1	5615.2	5609.6	5598.3	5626.5	5626.5	5637.9
42.5°	4242.3	4248.1	4265.0	4276.1	4309.9	4315.5	4343.7	4343.7	4360.6	4377.3	4388.7
45°	3156.4	3179.1	3179.1	3201.5	3235.3	3240.9	3252.0	3257.8	3268.9	3297.2	3308.3
47.5°	2368.7	2374.3	2374.3	2380.1	2391.2	2402.5	2397.0	2402.5	2419.4	2408.1	2419.4
50°	1749.9	1755.5	1738.6	1721.7	1738.6	1738.6	1733.0	1716.1	1733.0	1710.5	1721.7
52.5°	1192.9	1187.1	1170.2	1176.0	1164.7	1159.1	1159.1	1147.8	1147.8	1147.8	1125.3
55°	754.1	754.1	742.7	742.7	737.2	725.8	720.3	714.5	708.9	703.3	703.3
57.5°	422.0	427.5	410.8	405.1	410.8	405.1	393.9	393.9	393.9	377.0	388.1
60°	230.7	225.1	219.5	213.8	208.2	213.8	213.8	202.6	202.6	202.6	208.2
62.5°	123.7	123.7	118.1	118.1	112.6	112.6	123.7	107.0	112.6	107.0	112.6
65°	67.6	84.3	61.8	61.8	78.7	73.2	67.6	67.6	73.2	61.8	67.6
67.5°	73.2	50.7	44.9	50.7	44.9	44.9	44.9	56.3	50.7	39.4	50.7
70°	33.8	39.4	39.4	28.0	44.9	22.5	39.4	22.5	33.8	28.0	33.8
72.5°	33.8	33.8	33.8	22.5	33.8	22.5	28.0	28.0	22.5	22.5	33.8
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°	11.3	11.3	5.6	5.6	5.6	5.6	11.3	11.3	11.3	0.0	5.6
80°	11.3	11.3	0.0	5.6	0.0	0.0	5.6	0.0	5.6	0.0	11.3
82.5°	5.6	11.3	5.6	5.6	11.3	11.3	11.3	5.6	5.6	5.6	5.6
85°	0.0	5.6	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	5.6
87.5°	0.0	5.6	0.0	0.0	0.0	0.0	5.6	5.6	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: P249762

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	12040.7	12040.7	12040.7	12040.7
2.5°	12361.4	12367.0	12378.3	12372.8
5°	13014.1	13059.2	13081.7	13076.1
7.5°	13627.3	13706.3	13751.2	13751.2
10°	14100.0	14190.1	14257.5	14268.8
12.5°	14353.1	14454.6	14544.7	14522.0
15°	14426.3	14527.7	14617.6	14600.7
17.5°	14342.0	14443.2	14510.8	14499.5
20°	14111.3	14195.6	14263.3	14257.5
22.5°	13751.2	13824.4	13880.7	13874.9
25°	13143.5	13194.2	13239.2	13216.7
27.5°	12209.5	12226.4	12254.4	12220.9
30°	10966.1	10977.2	10988.6	10983.0
32.5°	9570.8	9565.0	9553.9	9542.5
35°	8158.5	8158.5	8164.1	8130.3
37.5°	6875.5	6869.9	6886.8	6869.9
40°	5649.0	5643.4	5665.9	5637.9
42.5°	4405.6	4422.5	4428.0	4428.0
45°	3314.1	3319.6	3325.2	3325.2
47.5°	2419.4	2425.0	2453.3	2419.4
50°	1710.5	1716.1	1721.7	1710.5
52.5°	1130.9	1136.7	1130.9	1114.0
55°	692.0	697.8	697.8	697.8
57.5°	371.2	377.0	377.0	371.2
60°	202.6	196.9	202.6	191.3
62.5°	107.0	118.1	112.6	101.2
65°	67.6	67.6	67.6	78.7
67.5°	56.3	44.9	50.7	39.4
70°	33.8	39.4	39.4	28.0
72.5°	28.0	28.0	28.0	33.8
75°	0.0	0.0	0.0	0.0
77.5°	11.3	11.3	11.3	5.6
80°	5.6	0.0	5.6	0.0
82.5°	5.6	5.6	11.3	5.6
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)