

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 ER8B200927 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 ER8B200927 8LBSW0LI  
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: 17908.8 lumens  
Efficiency: N/A  
Efficacy: 80.2 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

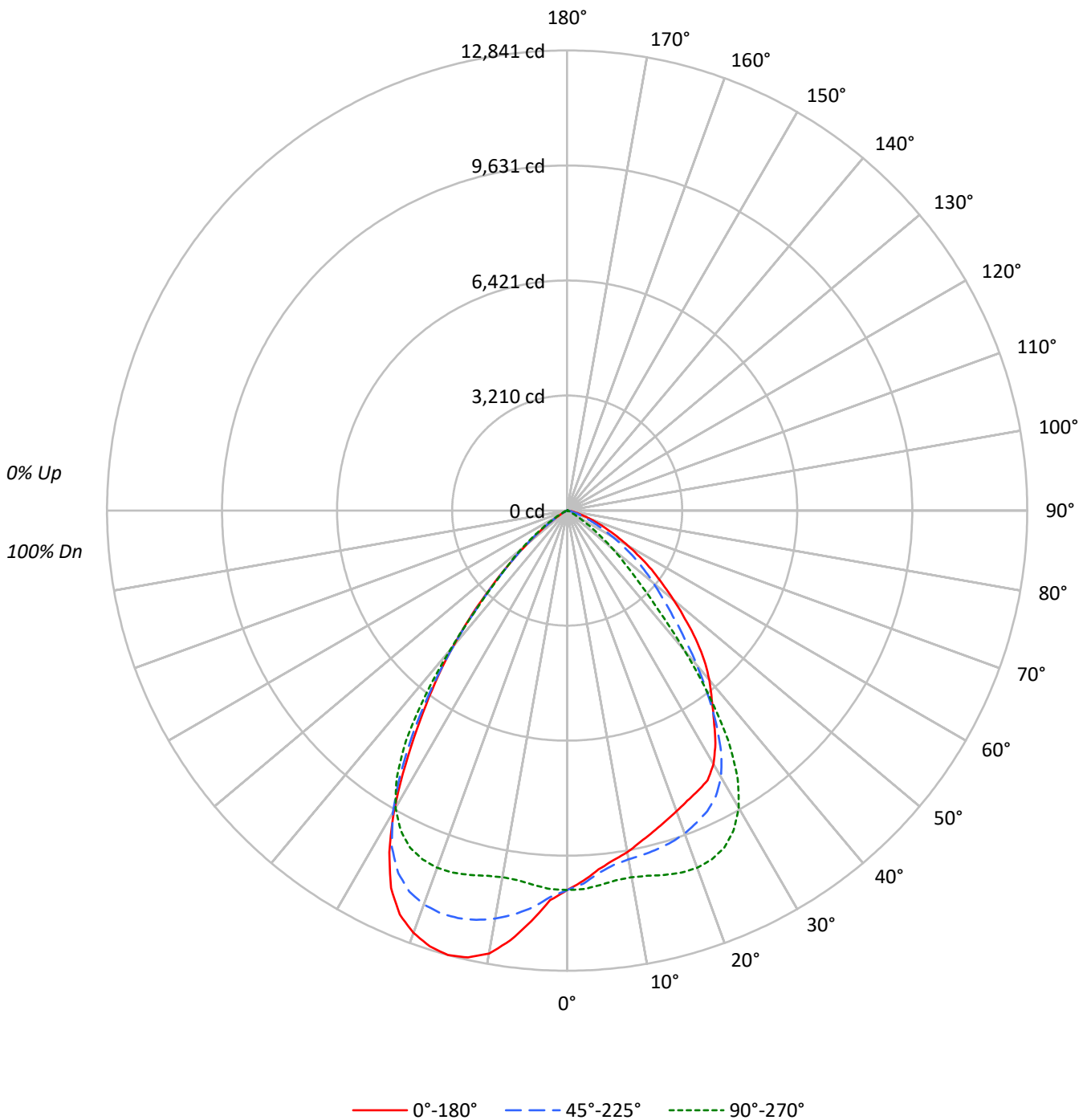
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	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°	1018.0	5.7
10°-20°	3046.8	17.0
20°-30°	4665.9	26.1
30°-40°	4574.1	25.5
40°-50°	2754.5	15.4
50°-60°	1267.8	7.1
60°-70°	445.4	2.5
70°-80°	116.5	0.7
80°-90°	19.8	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°	8730.7	48.8
0°-40°	13304.8	74.3
0°-60°	17327.2	96.8
0°-90°	17908.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17908.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10590	10590	10590	10590	10590	
5°	10050	10144	10490	11119	11500	949
15°	9278	9778	10525	11772	12841	2621
25°	8630	9254	10377	11159	11624	3975
35°	7141	7240	7838	7388	7150	4472
45°	5072	4176	2830	2850	2924	3889
55°	2880	2281	812	638	614	2570
65°	1222	846	129	64	69	1245
75°	317	183	10	0	0	384
85°	50	25	5	0	0	68
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°	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5
2.5°	10342.1	10352.0	10352.0	10352.0	10371.8	10376.9	10371.8	10376.9	10386.7	10421.3	10436.2
5°	10050.2	10035.3	10045.4	10040.2	10065.0	10080.0	10070.0	10084.8	10119.5	10144.4	10169.0
7.5°	9842.4	9842.4	9842.4	9852.2	9867.2	9896.8	9891.9	9901.7	9936.3	9971.0	10005.6
10°	9679.1	9674.2	9674.2	9698.8	9718.6	9753.2	9763.2	9793.0	9837.3	9882.0	9921.5
12.5°	9466.3	9471.4	9496.0	9520.9	9565.2	9619.6	9649.4	9689.1	9758.4	9832.5	9877.1
15°	9278.2	9283.2	9303.1	9352.4	9407.0	9471.4	9535.5	9599.8	9684.0	9778.1	9857.4
17.5°	9095.2	9100.0	9114.9	9169.5	9238.7	9322.9	9397.0	9481.2	9590.1	9698.8	9797.8
20°	8926.9	8922.0	8946.7	8996.2	9085.4	9164.4	9238.7	9337.7	9456.5	9590.1	9703.8
22.5°	8763.5	8763.5	8788.4	8837.9	8917.1	8996.2	9075.4	9179.3	9298.0	9426.7	9560.4
25°	8630.0	8625.0	8659.7	8684.6	8743.8	8823.0	8907.2	8991.2	9110.0	9253.6	9382.2
27.5°	8486.6	8481.7	8486.6	8516.2	8570.7	8630.0	8694.3	8768.7	8867.6	8986.4	9110.0
30°	8169.9	8174.7	8174.7	8199.6	8229.3	8293.5	8328.0	8402.4	8491.4	8590.4	8699.4
32.5°	7699.7	7704.7	7704.7	7714.6	7739.2	7769.0	7798.7	7853.1	7922.4	8006.5	8105.5
35°	7140.6	7140.6	7135.5	7140.6	7155.4	7155.4	7180.2	7155.4	7190.1	7239.6	7313.7
37.5°	6625.9	6615.9	6606.2	6596.2	6581.4	6556.7	6522.1	6462.6	6447.7	6427.9	6432.9
40°	6170.7	6165.8	6136.1	6111.2	6061.7	6002.4	5918.4	5814.4	5730.3	5631.4	5547.3
42.5°	5666.0	5660.9	5636.2	5591.6	5537.2	5448.3	5314.6	5176.1	5007.9	4859.4	4706.0
45°	5072.1	5086.9	5052.3	5002.8	4938.4	4854.3	4706.0	4537.6	4369.4	4176.4	3983.4
47.5°	4453.4	4448.6	4424.0	4394.2	4339.8	4255.7	4156.8	3973.6	3795.4	3617.3	3419.4
50°	3879.4	3859.8	3849.8	3820.3	3785.6	3716.3	3612.3	3463.8	3305.6	3137.3	2954.1
52.5°	3335.3	3335.3	3310.4	3290.6	3260.9	3206.6	3117.5	2998.8	2865.2	2706.8	2513.8
55°	2880.0	2870.1	2845.5	2820.6	2790.8	2756.2	2677.2	2578.2	2434.6	2281.3	2113.0
57.5°	2395.1	2390.0	2380.2	2350.5	2335.6	2301.0	2212.0	2113.0	1989.3	1855.7	1717.0
60°	1959.6	1939.8	1919.9	1900.1	1875.5	1840.8	1781.4	1697.3	1593.3	1474.6	1336.2
62.5°	1568.7	1598.3	1539.0	1539.0	1489.5	1459.8	1405.4	1355.9	1247.0	1138.2	1019.5
65°	1222.3	1222.3	1197.4	1177.6	1148.0	1113.3	1059.0	1009.5	930.3	846.1	762.0
67.5°	935.3	930.3	905.5	885.8	861.0	841.2	801.7	742.2	683.0	613.7	544.3
70°	687.8	683.0	677.8	643.3	623.5	598.8	569.1	529.5	485.0	435.5	371.1
72.5°	494.8	494.8	480.0	465.2	445.5	425.5	396.0	371.1	331.5	297.0	252.3
75°	316.7	311.8	311.8	287.0	287.0	257.3	237.5	222.6	202.8	183.2	143.5
77.5°	227.7	222.6	217.7	207.8	198.0	188.0	173.1	153.3	138.5	118.8	103.8
80°	153.3	143.5	138.5	138.5	123.6	118.8	123.6	94.0	89.0	74.1	64.4
82.5°	94.0	94.0	89.0	89.0	84.1	79.2	64.4	64.4	59.5	54.3	44.6
85°	49.5	64.4	44.6	49.5	44.6	49.5	44.6	34.6	29.7	24.6	24.6
87.5°	29.7	19.8	19.8	29.7	24.6	19.8	19.8	19.8	14.8	10.0	10.0
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°	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5
2.5°	10426.4	10461.0	10456.0	10500.5	10515.4	10550.0	10550.0	10574.7	10589.5	10624.2	10654.0
5°	10178.9	10233.3	10248.2	10302.5	10347.2	10401.5	10436.2	10490.5	10540.0	10614.4	10683.7
7.5°	10025.6	10070.0	10099.7	10164.0	10213.5	10272.8	10332.3	10406.5	10475.7	10564.9	10663.9
10°	9951.2	10010.7	10055.1	10119.5	10178.9	10243.4	10302.5	10386.7	10465.9	10579.7	10688.5
12.5°	9931.5	10000.7	10055.1	10144.4	10203.5	10272.8	10342.1	10436.2	10520.3	10639.0	10762.9
15°	9931.5	10025.6	10099.7	10198.7	10268.0	10357.0	10431.3	10525.2	10619.3	10743.0	10861.6
17.5°	9911.7	10025.6	10119.5	10233.3	10322.3	10411.5	10505.5	10594.7	10693.5	10812.4	10945.8
20°	9832.5	9976.1	10089.7	10223.3	10317.5	10416.4	10510.5	10609.3	10713.4	10837.0	10950.9
22.5°	9694.0	9862.2	9990.9	10134.3	10243.4	10342.1	10436.2	10535.2	10649.0	10767.8	10886.5
25°	9510.9	9669.2	9807.9	9956.1	10065.0	10173.8	10263.0	10376.9	10480.8	10594.7	10688.5
27.5°	9233.7	9401.8	9535.5	9689.1	9787.8	9891.9	9966.0	10060.2	10159.2	10253.0	10327.4
30°	8818.2	8971.5	9110.0	9248.5	9347.5	9421.9	9500.8	9575.2	9639.6	9703.8	9768.2
32.5°	8209.4	8348.1	8481.7	8610.2	8689.4	8753.7	8813.0	8857.7	8892.3	8926.9	8931.8
35°	7373.2	7486.9	7571.0	7684.9	7759.2	7818.5	7818.5	7838.2	7833.4	7818.5	7803.6
37.5°	6437.9	6482.4	6517.0	6561.6	6566.5	6566.5	6536.9	6512.1	6472.6	6462.6	6432.9
40°	5463.1	5403.6	5359.0	5299.8	5265.1	5190.8	5126.6	5082.1	5017.7	5007.9	4997.9
42.5°	4537.6	4399.1	4275.4	4171.6	4052.8	3948.8	3854.8	3785.6	3736.1	3731.1	3736.1
45°	3785.6	3627.1	3444.1	3300.6	3167.0	3038.3	2914.6	2830.5	2786.0	2775.9	2786.0
47.5°	3216.5	3033.5	2855.2	2691.8	2548.5	2404.9	2281.3	2167.3	2113.0	2098.1	2093.2
50°	2766.2	2578.2	2390.0	2221.8	2063.5	1919.9	1766.5	1657.8	1588.5	1563.6	1544.0
52.5°	2325.8	2157.6	1964.5	1791.3	1632.9	1464.6	1306.5	1182.6	1113.3	1083.8	1063.8
55°	1939.8	1771.6	1593.3	1425.1	1257.0	1088.7	930.3	811.5	737.3	702.7	677.8
57.5°	1548.8	1390.5	1237.2	1068.9	930.3	767.0	608.6	504.7	440.3	400.8	381.0
60°	1197.4	1073.8	940.2	801.7	668.0	534.5	405.8	306.8	257.3	227.7	202.8
62.5°	905.5	801.7	712.5	593.8	489.8	376.0	277.2	198.0	153.3	128.7	118.8
65°	653.2	574.0	494.8	420.6	346.5	262.3	188.0	128.7	89.0	74.1	69.3
67.5°	465.2	400.8	341.3	291.8	237.5	188.0	133.6	89.0	69.3	59.5	54.3
70°	326.5	277.2	237.5	193.0	158.3	123.6	103.8	64.4	39.5	44.6	34.6
72.5°	217.7	183.2	163.4	133.6	108.8	89.0	64.4	44.6	44.6	34.6	29.7
75°	118.8	108.8	84.1	64.4	54.3	49.5	19.8	10.0	4.8	14.8	4.8
77.5°	84.1	74.1	64.4	54.3	44.6	34.6	19.8	19.8	14.8	19.8	10.0
80°	54.3	44.6	39.5	39.5	24.6	14.8	10.0	10.0	14.8	4.8	4.8
82.5°	34.6	29.7	24.6	24.6	24.6	14.8	14.8	14.8	14.8	10.0	10.0
85°	19.8	14.8	10.0	10.0	4.8	10.0	0.0	4.8	4.8	0.0	0.0
87.5°	10.0	4.8	4.8	4.8	4.8	0.0	0.0	4.8	0.0	4.8	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°	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5	10589.5
2.5°	10673.7	10693.5	10718.3	10738.0	10782.7	10792.5	10812.4	10832.2	10847.0	10861.6	10866.7
5°	10743.0	10817.3	10886.5	10960.6	11054.8	11119.2	11193.3	11257.6	11322.0	11376.3	11415.9
7.5°	10762.9	10876.5	10980.7	11109.2	11247.6	11366.6	11490.2	11613.8	11742.6	11841.5	11925.7
10°	10802.4	10940.8	11074.5	11227.8	11406.2	11564.3	11717.8	11881.1	12044.5	12183.0	12306.8
12.5°	10871.7	11025.0	11168.7	11336.8	11520.0	11698.0	11866.3	12049.3	12222.7	12376.0	12514.5
15°	10985.5	11128.9	11267.7	11425.8	11609.0	11772.3	11940.5	12118.6	12291.9	12450.2	12578.8
17.5°	11059.6	11193.3	11331.8	11475.3	11628.8	11777.2	11935.5	12094.0	12252.2	12395.8	12514.5
20°	11059.6	11188.4	11292.3	11421.0	11564.3	11693.1	11821.8	11960.3	12098.8	12217.6	12331.5
22.5°	10970.7	11094.3	11173.5	11272.5	11396.1	11505.2	11574.3	11727.7	11831.6	11935.5	12019.6
25°	10762.9	10851.9	10916.2	10985.5	11084.5	11158.6	11218.2	11307.2	11411.0	11450.7	11510.0
27.5°	10386.7	10451.0	10485.7	10500.5	10550.0	10589.5	10599.5	10639.0	10683.7	10693.5	10718.3
30°	9793.0	9797.8	9783.0	9778.1	9753.2	9723.7	9718.6	9713.7	9694.0	9674.2	9679.1
32.5°	8897.2	8872.5	8813.0	8748.9	8684.6	8615.2	8575.5	8526.0	8496.3	8466.8	8432.2
35°	7739.2	7679.9	7595.9	7516.6	7442.4	7387.9	7298.9	7269.2	7239.6	7199.9	7190.1
37.5°	6378.4	6343.9	6264.6	6205.4	6165.8	6140.9	6096.4	6066.8	6066.8	6051.9	6041.9
40°	4973.1	4963.3	4933.6	4948.4	4928.6	4938.4	4933.6	4923.6	4948.4	4948.4	4958.4
42.5°	3731.1	3736.1	3751.0	3760.8	3790.5	3795.4	3820.3	3820.3	3835.1	3849.8	3859.8
45°	2775.9	2796.0	2796.0	2815.6	2845.5	2850.3	2860.1	2865.2	2874.9	2899.8	2909.6
47.5°	2083.3	2088.1	2088.1	2093.2	2103.0	2113.0	2108.1	2113.0	2127.8	2117.9	2127.8
50°	1539.0	1544.0	1529.0	1514.1	1529.0	1529.0	1524.1	1509.3	1524.1	1504.4	1514.1
52.5°	1049.2	1044.1	1029.1	1034.3	1024.3	1019.5	1019.5	1009.5	1009.5	1009.5	989.7
55°	663.2	663.2	653.2	653.2	648.3	638.3	633.5	628.3	623.5	618.5	618.5
57.5°	371.1	376.0	361.3	356.3	361.3	356.3	346.5	346.5	346.5	331.5	341.3
60°	202.8	198.0	193.0	188.0	183.2	188.0	188.0	178.2	178.2	178.2	183.2
62.5°	108.8	108.8	103.8	103.8	99.0	99.0	108.8	94.0	99.0	94.0	99.0
65°	59.5	74.1	54.3	54.3	69.3	64.4	59.5	59.5	64.4	54.3	59.5
67.5°	64.4	44.6	39.5	44.6	39.5	39.5	39.5	49.5	44.6	34.6	44.6
70°	29.7	34.6	34.6	24.6	39.5	19.8	34.6	19.8	29.7	24.6	29.7
72.5°	29.7	29.7	29.7	19.8	29.7	19.8	24.6	24.6	19.8	19.8	29.7
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°	10.0	10.0	4.8	4.8	4.8	4.8	10.0	10.0	10.0	0.0	4.8
80°	10.0	10.0	0.0	4.8	0.0	0.0	4.8	0.0	4.8	0.0	10.0
82.5°	4.8	10.0	4.8	4.8	10.0	10.0	10.0	4.8	4.8	4.8	4.8
85°	0.0	4.8	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	4.8
87.5°	0.0	4.8	0.0	0.0	0.0	0.0	4.8	4.8	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 ER8B200927 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	10589.5	10589.5	10589.5	10589.5
2.5°	10871.7	10876.5	10886.5	10881.7
5°	11445.6	11485.4	11505.2	11500.2
7.5°	11985.0	12054.4	12094.0	12094.0
10°	12400.6	12480.0	12539.1	12549.2
12.5°	12623.3	12712.5	12791.7	12771.8
15°	12687.6	12776.8	12855.9	12841.1
17.5°	12613.5	12702.5	12762.0	12752.0
20°	12410.7	12484.8	12544.3	12539.1
22.5°	12094.0	12158.3	12207.8	12202.6
25°	11559.5	11604.0	11643.6	11623.8
27.5°	10738.0	10752.9	10777.5	10748.0
30°	9644.5	9654.3	9664.2	9659.4
32.5°	8417.2	8412.2	8402.4	8392.5
35°	7175.2	7175.2	7180.2	7150.4
37.5°	6046.9	6041.9	6056.9	6041.9
40°	4968.2	4963.3	4983.1	4958.4
42.5°	3874.6	3889.5	3894.4	3894.4
45°	2914.6	2919.6	2924.4	2924.4
47.5°	2127.8	2132.8	2157.6	2127.8
50°	1504.4	1509.3	1514.1	1504.4
52.5°	994.6	999.7	994.6	979.6
55°	608.6	613.7	613.7	613.7
57.5°	326.5	331.5	331.5	326.5
60°	178.2	173.1	178.2	168.2
62.5°	94.0	103.8	99.0	89.0
65°	59.5	59.5	59.5	69.3
67.5°	49.5	39.5	44.6	34.6
70°	29.7	34.6	34.6	24.6
72.5°	24.6	24.6	24.6	29.7
75°	0.0	0.0	0.0	0.0
77.5°	10.0	10.0	10.0	4.8
80°	4.8	0.0	4.8	0.0
82.5°	4.8	4.8	10.0	4.8
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)