

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: P249720

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249720  
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 ER8B200835 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

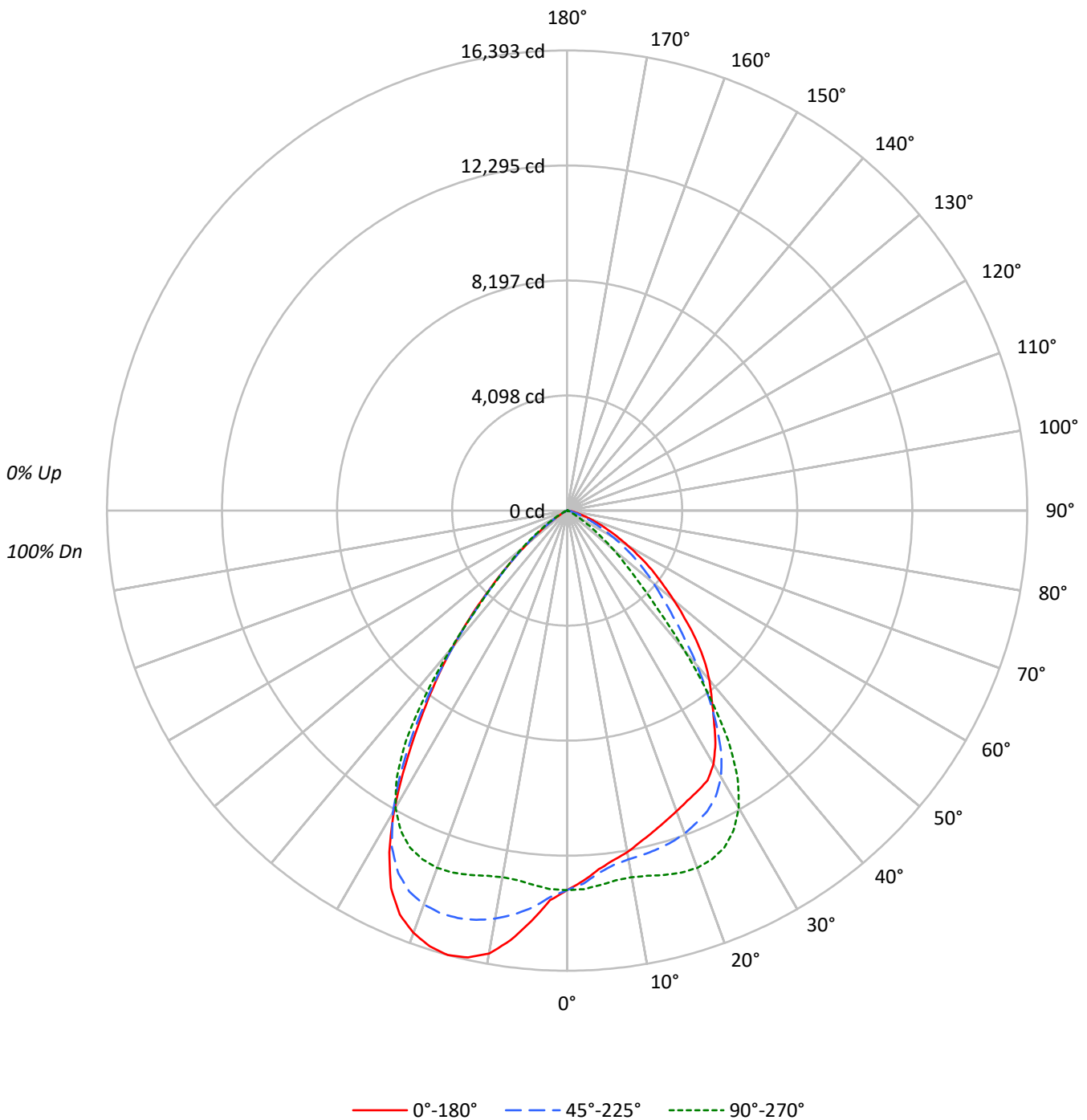
Lumens per Lamp: N/A  
Luminaire Lumens: 22863.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	416873	416873	416873
5°	397154	414556	454453
10°	386910	415197	501637
15°	378138	428958	523341
20°	373977	444457	525304
25°	374850	450734	504894
30°	371371	435256	439081
35°	343161	376687	343631
40°	317109	261164	254808
45°	282374	157586	162810
50°	237595	101525	92132
55°	197665	55692	42122
60°	154286	24151	13247
65°	113854	11988	6450
70°	79169	7411	2840
75°	48169	1513	0
80°	34770	2255	0
85°	22361	2194	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1299.6	5.7
10°-20°	3889.6	17.0
20°-30°	5956.6	26.1
30°-40°	5839.4	25.5
40°-50°	3516.5	15.4
50°-60°	1618.5	7.1
60°-70°	568.6	2.5
70°-80°	148.7	0.7
80°-90°	25.3	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°	11145.9	48.8
0°-40°	16985.3	74.3
0°-60°	22120.4	96.8
0°-90°	22863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13519	13519	13519	13519	13519	
5°	12830	12950	13393	14195	14682	###
15°	11845	12483	13437	15029	16393	3347
25°	11017	11813	13248	14245	14839	5074
35°	9116	9242	10006	9432	9128	5709
45°	6475	5332	3614	3639	3733	4965
55°	3677	2912	1036	815	784	3281
65°	1560	1080	164	82	88	1590
75°	404	234	13	0	0	490
85°	63	32	6	0	0	87
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°	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9
2.5°	13203.0	13215.8	13215.8	13215.8	13241.0	13247.5	13241.0	13247.5	13260.0	13304.2	13323.1
5°	12830.4	12811.4	12824.2	12817.7	12849.4	12868.4	12855.6	12874.6	12918.8	12950.5	12982.0
7.5°	12565.2	12565.2	12565.2	12577.7	12596.6	12634.6	12628.4	12640.8	12685.0	12729.2	12773.4
10°	12356.6	12350.4	12350.4	12381.9	12407.1	12451.3	12464.0	12502.0	12558.7	12615.6	12666.1
12.5°	12084.9	12091.4	12122.9	12154.6	12211.3	12280.7	12318.7	12369.4	12457.8	12552.4	12609.4
15°	11844.9	11851.1	11876.6	11939.6	12009.2	12091.4	12173.3	12255.5	12362.9	12483.0	12584.2
17.5°	11611.1	11617.4	11636.4	11706.0	11794.5	11901.8	11996.5	12103.9	12243.0	12381.9	12508.2
20°	11396.4	11390.1	11421.6	11484.8	11598.7	11699.5	11794.5	11920.8	12072.4	12243.0	12388.1
22.5°	11187.8	11187.8	11219.5	11282.7	11383.9	11484.8	11585.9	11718.5	11870.1	12034.5	12205.0
25°	11017.2	11011.0	11055.2	11086.9	11162.6	11263.7	11371.1	11478.5	11630.1	11813.4	11977.5
27.5°	10834.2	10827.9	10834.2	10872.1	10941.6	11017.2	11099.4	11194.3	11320.7	11472.3	11630.1
30°	10429.8	10436.1	10436.1	10467.8	10505.8	10587.7	10631.9	10726.8	10840.4	10966.8	11105.9
32.5°	9829.7	9836.0	9836.0	9848.7	9880.2	9918.1	9956.1	10025.5	10113.9	10221.3	10347.7
35°	9115.9	9115.9	9109.4	9115.9	9134.9	9134.9	9166.4	9134.9	9179.1	9242.3	9337.0
37.5°	8458.9	8446.1	8433.6	8420.9	8401.9	8370.5	8326.2	8250.3	8231.3	8206.1	8212.4
40°	7877.7	7871.5	7833.5	7801.8	7738.6	7662.9	7555.5	7422.9	7315.5	7189.2	7081.8
42.5°	7233.4	7226.9	7195.4	7138.5	7069.0	6955.4	6784.8	6608.0	6393.2	6203.7	6007.9
45°	6475.1	6494.1	6449.9	6386.7	6304.6	6197.2	6007.9	5792.8	5578.0	5331.8	5085.3
47.5°	5685.4	5679.2	5647.7	5609.8	5540.3	5433.0	5306.6	5072.8	4845.3	4618.0	4365.3
50°	4952.7	4927.5	4914.7	4877.0	4832.8	4744.4	4611.5	4422.0	4219.9	4005.2	3771.4
52.5°	4257.9	4257.9	4226.2	4201.0	4163.0	4093.6	3979.9	3828.3	3657.8	3455.5	3209.2
55°	3676.7	3664.0	3632.5	3600.8	3562.9	3518.7	3417.8	3291.4	3108.1	2912.3	2697.5
57.5°	3057.6	3051.1	3038.6	3000.7	2981.7	2937.5	2823.9	2697.5	2539.7	2369.1	2192.0
60°	2501.7	2476.5	2451.0	2425.8	2394.3	2350.1	2274.2	2166.8	2034.2	1882.6	1705.8
62.5°	2002.7	2040.4	1964.7	1964.7	1901.6	1863.6	1794.2	1731.0	1591.9	1453.0	1301.4
65°	1560.4	1560.4	1528.7	1503.5	1465.5	1421.3	1351.9	1288.7	1187.5	1080.1	972.8
67.5°	1194.0	1187.5	1156.1	1130.8	1099.1	1073.9	1023.5	947.5	871.9	783.5	694.8
70°	878.1	871.9	865.4	821.2	795.9	764.5	726.5	676.1	619.1	555.9	473.8
72.5°	631.6	631.6	612.9	593.9	568.7	543.2	505.5	473.8	423.3	379.1	322.2
75°	404.3	398.1	398.1	366.4	366.4	328.4	303.2	284.2	259.0	233.8	183.3
77.5°	290.7	284.2	278.0	265.2	252.7	240.0	221.0	195.8	176.8	151.6	132.6
80°	195.8	183.3	176.8	176.8	157.8	151.6	157.8	120.1	113.6	94.6	82.2
82.5°	120.1	120.1	113.6	113.6	107.4	101.1	82.2	82.2	75.9	69.4	56.9
85°	63.2	82.2	56.9	63.2	56.9	63.2	56.9	44.2	38.0	31.5	31.5
87.5°	38.0	25.2	25.2	38.0	31.5	25.2	25.2	25.2	19.0	12.7	12.7
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°	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9
2.5°	13310.7	13354.9	13348.4	13405.3	13424.3	13468.5	13468.5	13500.0	13518.9	13563.1	13601.1
5°	12994.7	13064.2	13083.1	13152.6	13209.5	13278.9	13323.1	13392.6	13455.8	13550.7	13639.1
7.5°	12798.9	12855.6	12893.6	12975.7	13038.9	13114.6	13190.5	13285.2	13373.6	13487.5	13613.8
10°	12704.0	12780.0	12836.6	12918.8	12994.7	13076.9	13152.6	13260.0	13361.1	13506.5	13645.3
12.5°	12678.8	12767.2	12836.6	12950.5	13026.2	13114.6	13203.0	13323.1	13430.5	13582.1	13740.2
15°	12678.8	12798.9	12893.6	13020.0	13108.4	13222.0	13316.9	13436.8	13556.9	13714.7	13866.3
17.5°	12653.6	12798.9	12918.8	13064.2	13177.8	13291.7	13411.6	13525.4	13651.6	13803.4	13973.7
20°	12552.4	12735.7	12880.8	13051.4	13171.5	13297.9	13418.1	13544.2	13677.0	13834.9	13980.2
22.5°	12375.6	12590.4	12754.7	12937.8	13076.9	13203.0	13323.1	13449.5	13594.9	13746.5	13898.1
25°	12141.8	12343.9	12521.0	12710.3	12849.4	12988.2	13102.1	13247.5	13380.1	13525.4	13645.3
27.5°	11788.0	12002.7	12173.3	12369.4	12495.5	12628.4	12723.0	12843.1	12969.5	13089.4	13184.3
30°	11257.5	11453.3	11630.1	11806.9	11933.3	12028.2	12129.1	12224.0	12306.2	12388.1	12470.3
32.5°	10480.3	10657.4	10827.9	10992.0	11093.2	11175.3	11251.0	11308.0	11352.2	11396.4	11402.6
35°	9412.9	9558.0	9665.4	9810.7	9905.6	9981.3	9981.3	10006.5	10000.3	9981.3	9962.3
37.5°	8218.9	8275.5	8319.7	8376.7	8382.9	8382.9	8345.2	8313.5	8263.1	8250.3	8212.4
40°	6974.4	6898.5	6841.5	6765.8	6721.6	6626.7	6544.8	6487.9	6405.7	6393.2	6380.5
42.5°	5792.8	5616.0	5458.2	5325.6	5174.0	5041.1	4921.2	4832.8	4769.6	4763.1	4769.6
45°	4832.8	4630.5	4396.8	4213.7	4043.1	3878.8	3721.0	3613.6	3556.6	3543.9	3556.6
47.5°	4106.3	3872.5	3645.0	3436.5	3253.4	3070.1	2912.3	2766.9	2697.5	2678.5	2672.3
50°	3531.4	3291.4	3051.1	2836.3	2634.3	2451.0	2255.2	2116.3	2027.9	1996.2	1971.0
52.5°	2969.2	2754.4	2507.9	2286.9	2084.6	1869.8	1667.8	1509.7	1421.3	1383.6	1358.1
55°	2476.5	2261.7	2034.2	1819.4	1604.6	1389.8	1187.5	1035.9	941.3	897.1	865.4
57.5°	1977.2	1775.2	1579.4	1364.6	1187.5	979.3	777.0	644.3	562.2	511.7	486.5
60°	1528.7	1370.8	1200.3	1023.5	852.9	682.3	518.0	391.6	328.4	290.7	259.0
62.5°	1156.1	1023.5	909.6	758.0	625.4	480.0	353.9	252.7	195.8	164.3	151.6
65°	833.9	732.7	631.6	537.0	442.3	334.9	240.0	164.3	113.6	94.6	88.4
67.5°	593.9	511.7	435.8	372.6	303.2	240.0	170.6	113.6	88.4	75.9	69.4
70°	416.8	353.9	303.2	246.5	202.0	157.8	132.6	82.2	50.4	56.9	44.2
72.5°	278.0	233.8	208.5	170.6	138.9	113.6	82.2	56.9	56.9	44.2	38.0
75°	151.6	138.9	107.4	82.2	69.4	63.2	25.2	12.7	6.2	19.0	6.2
77.5°	107.4	94.6	82.2	69.4	56.9	44.2	25.2	25.2	19.0	25.2	12.7
80°	69.4	56.9	50.4	50.4	31.5	19.0	12.7	12.7	19.0	6.2	6.2
82.5°	44.2	38.0	31.5	31.5	31.5	19.0	19.0	19.0	19.0	12.7	12.7
85°	25.2	19.0	12.7	12.7	6.2	12.7	0.0	6.2	6.2	0.0	0.0
87.5°	12.7	6.2	6.2	6.2	6.2	0.0	0.0	6.2	0.0	6.2	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°	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9	13518.9
2.5°	13626.3	13651.6	13683.3	13708.5	13765.4	13777.9	13803.4	13828.6	13847.6	13866.3	13872.8
5°	13714.7	13809.6	13898.1	13992.7	14112.8	14195.0	14289.7	14371.8	14454.0	14523.4	14573.9
7.5°	13740.2	13885.3	14018.2	14182.3	14359.1	14510.9	14668.8	14826.6	14990.9	15117.3	15224.7
10°	13790.7	13967.5	14138.1	14333.9	14561.4	14763.4	14959.2	15167.8	15376.3	15553.1	15711.2
12.5°	13879.1	14074.9	14258.2	14473.0	14706.7	14934.0	15148.8	15382.5	15603.8	15799.6	15976.4
15°	14024.4	14207.5	14384.6	14586.6	14820.4	15028.9	15243.7	15470.9	15692.2	15894.3	16058.6
17.5°	14119.1	14289.7	14466.5	14649.8	14845.6	15035.1	15237.2	15439.5	15641.5	15824.8	15976.4
20°	14119.1	14283.4	14416.0	14580.4	14763.4	14927.8	15092.1	15268.9	15445.7	15597.3	15742.7
22.5°	14005.4	14163.3	14264.4	14390.8	14548.6	14687.8	14776.2	14972.0	15104.6	15237.2	15344.6
25°	13740.2	13853.9	13936.0	14024.4	14150.8	14245.4	14321.4	14435.0	14567.6	14618.3	14694.0
27.5°	13260.0	13342.1	13386.3	13405.3	13468.5	13518.9	13531.7	13582.1	13639.1	13651.6	13683.3
30°	12502.0	12508.2	12489.2	12483.0	12451.3	12413.6	12407.1	12400.8	12375.6	12350.4	12356.6
32.5°	11358.4	11326.9	11251.0	11169.1	11086.9	10998.5	10947.8	10884.6	10846.7	10809.0	10764.8
35°	9880.2	9804.5	9697.1	9595.9	9501.3	9431.6	9318.0	9280.0	9242.3	9191.6	9179.1
37.5°	8142.9	8098.7	7997.6	7921.9	7871.5	7839.7	7782.8	7745.1	7745.1	7726.1	7713.4
40°	6348.8	6336.3	6298.3	6317.3	6292.1	6304.6	6298.3	6285.6	6317.3	6317.3	6330.0
42.5°	4763.1	4769.6	4788.6	4801.1	4839.1	4845.3	4877.0	4877.0	4896.0	4914.7	4927.5
45°	3543.9	3569.4	3569.4	3594.6	3632.5	3638.8	3651.3	3657.8	3670.2	3702.0	3714.5
47.5°	2659.5	2665.8	2665.8	2672.3	2684.8	2697.5	2691.3	2697.5	2716.5	2703.7	2716.5
50°	1964.7	1971.0	1952.0	1933.0	1952.0	1952.0	1945.8	1926.8	1945.8	1920.5	1933.0
52.5°	1339.4	1332.9	1313.9	1320.4	1307.7	1301.4	1301.4	1288.7	1288.7	1288.7	1263.5
55°	846.6	846.6	833.9	833.9	827.7	814.9	808.7	802.2	795.9	789.7	789.7
57.5°	473.8	480.0	461.3	454.8	461.3	454.8	442.3	442.3	442.3	423.3	435.8
60°	259.0	252.7	246.5	240.0	233.8	240.0	240.0	227.5	227.5	227.5	233.8
62.5°	138.9	138.9	132.6	132.6	126.4	126.4	138.9	120.1	126.4	120.1	126.4
65°	75.9	94.6	69.4	69.4	88.4	82.2	75.9	75.9	82.2	69.4	75.9
67.5°	82.2	56.9	50.4	56.9	50.4	50.4	50.4	63.2	56.9	44.2	56.9
70°	38.0	44.2	44.2	31.5	50.4	25.2	44.2	25.2	38.0	31.5	38.0
72.5°	38.0	38.0	38.0	25.2	38.0	25.2	31.5	31.5	25.2	25.2	38.0
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°	12.7	12.7	6.2	6.2	6.2	6.2	12.7	12.7	12.7	0.0	6.2
80°	12.7	12.7	0.0	6.2	0.0	0.0	6.2	0.0	6.2	0.0	12.7
82.5°	6.2	12.7	6.2	6.2	12.7	12.7	12.7	6.2	6.2	6.2	6.2
85°	0.0	6.2	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	6.2
87.5°	0.0	6.2	0.0	0.0	0.0	0.0	6.2	6.2	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: P249720

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	13518.9	13518.9	13518.9	13518.9
2.5°	13879.1	13885.3	13898.1	13891.8
5°	14611.8	14662.5	14687.8	14681.5
7.5°	15300.4	15389.0	15439.5	15439.5
10°	15831.1	15932.2	16007.9	16020.6
12.5°	16115.3	16229.2	16330.3	16304.8
15°	16197.5	16311.3	16412.2	16393.3
17.5°	16102.8	16216.4	16292.4	16279.6
20°	15843.8	15938.5	16014.4	16007.9
22.5°	15439.5	15521.7	15584.8	15578.3
25°	14757.2	14814.1	14864.6	14839.3
27.5°	13708.5	13727.5	13758.9	13721.2
30°	12312.4	12324.9	12337.6	12331.4
32.5°	10745.8	10739.3	10726.8	10714.1
35°	9160.1	9160.1	9166.4	9128.4
37.5°	7719.6	7713.4	7732.4	7713.4
40°	6342.5	6336.3	6361.5	6330.0
42.5°	4946.4	4965.4	4971.7	4971.7
45°	3721.0	3727.2	3733.4	3733.4
47.5°	2716.5	2722.7	2754.4	2716.5
50°	1920.5	1926.8	1933.0	1920.5
52.5°	1269.7	1276.2	1269.7	1250.7
55°	777.0	783.5	783.5	783.5
57.5°	416.8	423.3	423.3	416.8
60°	227.5	221.0	227.5	214.8
62.5°	120.1	132.6	126.4	113.6
65°	75.9	75.9	75.9	88.4
67.5°	63.2	50.4	56.9	44.2
70°	38.0	44.2	44.2	31.5
72.5°	31.5	31.5	31.5	38.0
75°	0.0	0.0	0.0	0.0
77.5°	12.7	12.7	12.7	6.2
80°	6.2	0.0	6.2	0.0
82.5°	6.2	6.2	12.7	6.2
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)