

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: P250238

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250238  
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 ER8B200850 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22331.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

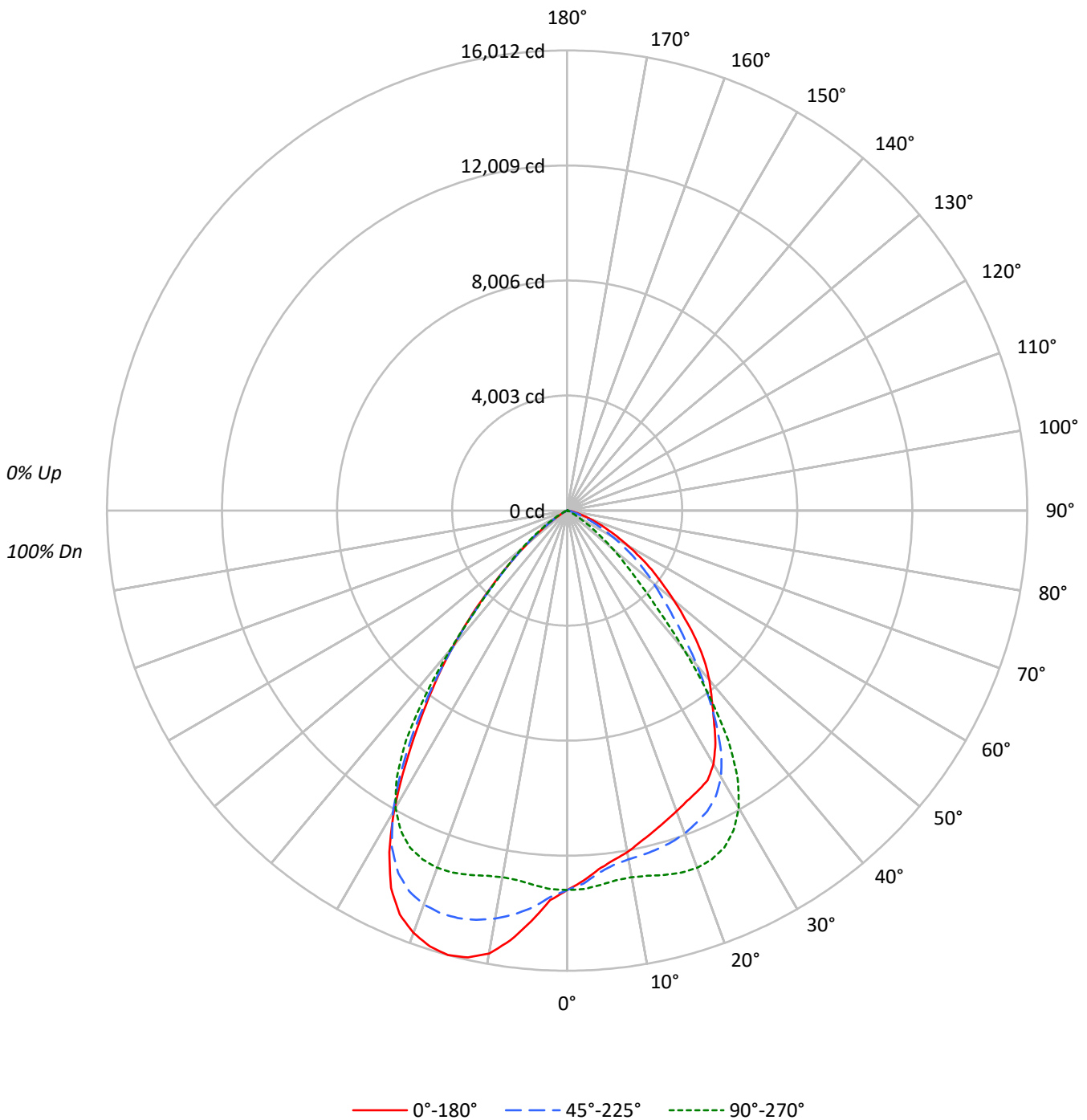
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	407175	407175	407175
5°	387911	404908	443879
10°	377908	405534	489967
15°	369340	418975	511162
20°	365274	434114	513081
25°	366130	440245	493145
30°	362733	425130	428865
35°	335176	367923	335636
40°	309730	255085	248878
45°	275806	153918	159025
50°	232064	99165	89992
55°	193068	54396	41138
60°	150697	23590	12939
65°	111206	11711	6304
70°	77330	7240	2768
75°	47049	1477	0
80°	33953	2202	0
85°	21830	2158	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1269.4	5.7
10°-20°	3799.1	17.0
20°-30°	5818.0	26.1
30°-40°	5703.6	25.5
40°-50°	3434.7	15.4
50°-60°	1580.9	7.1
60°-70°	555.4	2.5
70°-80°	145.3	0.7
80°-90°	24.7	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°	10886.5	48.8
0°-40°	16590.1	74.3
0°-60°	21605.6	96.8
0°-90°	22331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22331.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13204	13204	13204	13204	13204	
5°	12532	12649	13081	13865	14340	###
15°	11569	12192	13124	14679	16012	3269
25°	10761	11539	12939	13914	14494	4956
35°	8904	9027	9774	9212	8916	5576
45°	6324	5208	3530	3554	3647	4850
55°	3591	2844	1012	796	765	3204
65°	1524	1055	160	80	86	1553
75°	395	228	12	0	0	479
85°	62	31	6	0	0	85
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°	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4
2.5°	12895.8	12908.2	12908.2	12908.2	12932.9	12939.2	12932.9	12939.2	12951.4	12994.6	13013.1
5°	12531.8	12513.3	12525.7	12519.4	12550.4	12568.9	12556.5	12575.0	12618.2	12649.2	12679.9
7.5°	12272.8	12272.8	12272.8	12285.0	12303.5	12340.6	12334.5	12346.7	12389.9	12433.0	12476.2
10°	12069.1	12063.0	12063.0	12093.7	12118.4	12161.5	12174.0	12211.1	12266.4	12322.1	12371.3
12.5°	11803.7	11810.0	11840.8	11871.8	11927.1	11994.9	12032.0	12081.5	12167.9	12260.3	12316.0
15°	11569.3	11575.4	11600.3	11661.7	11729.8	11810.0	11890.1	11970.3	12075.2	12192.5	12291.3
17.5°	11341.0	11347.1	11365.6	11433.7	11520.0	11624.9	11717.3	11822.2	11958.1	12093.7	12217.2
20°	11131.2	11125.1	11155.8	11217.5	11328.8	11427.3	11520.0	11643.4	11791.5	11958.1	12099.8
22.5°	10927.5	10927.5	10958.5	11020.2	11119.0	11217.5	11316.3	11445.9	11593.9	11754.4	11921.0
25°	10760.9	10754.8	10798.0	10828.9	10902.9	11001.7	11106.5	11211.4	11359.5	11538.6	11698.8
27.5°	10582.1	10576.0	10582.1	10619.2	10687.0	10760.9	10841.1	10933.8	11057.3	11205.3	11359.5
30°	10187.2	10193.3	10193.3	10224.2	10261.3	10341.3	10384.5	10477.2	10588.2	10711.6	10847.5
32.5°	9601.0	9607.1	9607.1	9619.5	9650.3	9687.3	9724.4	9792.2	9878.6	9983.5	10106.9
35°	8903.8	8903.8	8897.5	8903.8	8922.4	8922.4	8953.1	8922.4	8965.5	9027.3	9119.7
37.5°	8262.0	8249.6	8237.4	8225.0	8206.4	8175.7	8132.5	8058.3	8039.8	8015.2	8021.3
40°	7694.4	7688.3	7651.2	7620.2	7558.5	7484.6	7379.7	7250.2	7145.3	7021.9	6917.0
42.5°	7065.1	7058.7	7028.0	6972.4	6904.5	6793.6	6626.9	6454.2	6244.5	6059.3	5868.1
45°	6324.5	6343.0	6299.8	6238.1	6157.9	6053.0	5868.1	5658.0	5448.3	5207.7	4967.0
47.5°	5553.1	5547.0	5516.3	5479.2	5411.4	5306.5	5183.1	4954.8	4732.6	4510.6	4263.7
50°	4837.4	4812.8	4800.4	4763.5	4720.4	4634.0	4504.2	4319.1	4121.7	3912.0	3683.6
52.5°	4158.8	4158.8	4127.8	4103.2	4066.1	3998.3	3887.3	3739.3	3572.7	3375.1	3134.5
55°	3591.2	3578.7	3548.0	3517.0	3480.0	3436.8	3338.2	3214.8	3035.8	2844.5	2634.7
57.5°	2986.5	2980.1	2967.9	2930.9	2912.3	2869.1	2758.2	2634.7	2480.6	2314.0	2141.0
60°	2443.5	2418.8	2394.0	2369.3	2338.6	2295.4	2221.3	2116.4	1986.8	1838.8	1666.1
62.5°	1956.1	1992.9	1919.0	1919.0	1857.3	1820.2	1752.4	1690.7	1554.8	1419.2	1271.1
65°	1524.1	1524.1	1493.1	1468.5	1431.4	1388.2	1320.4	1258.7	1159.9	1055.0	950.1
67.5°	1166.2	1159.9	1129.2	1104.5	1073.5	1048.9	999.6	925.5	851.6	765.2	678.6
70°	857.7	851.6	845.2	802.1	777.4	746.7	709.6	660.3	604.7	543.0	462.7
72.5°	616.9	616.9	598.6	580.1	555.4	530.6	493.7	462.7	413.5	370.3	314.7
75°	394.9	388.8	388.8	357.8	357.8	320.8	296.1	277.6	253.0	228.3	179.1
77.5°	283.9	277.6	271.5	259.1	246.9	234.4	215.9	191.2	172.7	148.1	129.5
80°	191.2	179.1	172.7	172.7	154.2	148.1	154.2	117.3	111.0	92.4	80.3
82.5°	117.3	117.3	111.0	111.0	104.9	98.8	80.3	80.3	74.2	67.8	55.6
85°	61.7	80.3	55.6	61.7	55.6	61.7	55.6	43.2	37.1	30.7	30.7
87.5°	37.1	24.6	24.6	37.1	30.7	24.6	24.6	24.6	18.5	12.4	12.4
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°	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4
2.5°	13000.9	13044.1	13037.8	13093.4	13111.9	13155.1	13155.1	13185.8	13204.4	13247.5	13284.6
5°	12692.4	12760.2	12778.7	12846.5	12902.1	12969.9	13013.1	13080.9	13142.7	13235.4	13321.7
7.5°	12501.1	12556.5	12593.6	12673.8	12735.5	12809.4	12883.6	12976.0	13062.4	13173.6	13297.1
10°	12408.4	12482.6	12537.9	12618.2	12692.4	12772.6	12846.5	12951.4	13050.2	13192.2	13327.8
12.5°	12383.8	12470.1	12537.9	12649.2	12723.1	12809.4	12895.8	13013.1	13118.0	13266.1	13420.5
15°	12383.8	12501.1	12593.6	12717.0	12803.3	12914.3	13007.0	13124.1	13241.4	13395.6	13543.7
17.5°	12359.1	12501.1	12618.2	12760.2	12871.2	12982.4	13099.5	13210.7	13333.9	13482.2	13648.6
20°	12260.3	12439.4	12581.1	12747.7	12865.1	12988.5	13105.8	13229.0	13358.8	13512.9	13654.9
22.5°	12087.6	12297.4	12457.9	12636.7	12772.6	12895.8	13013.1	13136.6	13278.5	13426.6	13574.7
25°	11859.3	12056.7	12229.6	12414.5	12550.4	12686.0	12797.2	12939.2	13068.7	13210.7	13327.8
27.5°	11513.7	11723.4	11890.1	12081.5	12204.7	12334.5	12427.0	12544.3	12667.7	12784.8	12877.5
30°	10995.6	11186.8	11359.5	11532.2	11655.6	11748.3	11846.9	11939.6	12019.8	12099.8	12180.1
32.5°	10236.4	10409.4	10576.0	10736.2	10835.0	10915.3	10989.2	11044.8	11088.0	11131.2	11137.3
35°	9193.9	9335.6	9440.5	9582.4	9675.1	9749.0	9749.0	9773.7	9767.6	9749.0	9730.5
37.5°	8027.6	8083.0	8126.2	8181.8	8187.9	8187.9	8151.0	8120.1	8070.8	8058.3	8021.3
40°	6812.1	6737.9	6682.3	6608.4	6565.2	6472.5	6392.5	6336.9	6256.7	6244.5	6232.0
42.5°	5658.0	5485.3	5331.2	5201.6	5053.6	4923.8	4806.7	4720.4	4658.6	4652.3	4658.6
45°	4720.4	4522.8	4294.4	4115.7	3949.0	3788.5	3634.4	3529.5	3473.9	3461.4	3473.9
47.5°	4010.8	3782.4	3560.2	3356.5	3177.7	2998.7	2844.5	2702.5	2634.7	2616.2	2610.1
50°	3449.2	3214.8	2980.1	2770.3	2573.0	2394.0	2202.7	2067.1	1980.7	1949.8	1925.1
52.5°	2900.1	2690.3	2449.6	2233.7	2036.1	1826.3	1629.0	1474.6	1388.2	1351.4	1326.5
55°	2418.8	2209.1	1986.8	1777.1	1567.3	1357.5	1159.9	1011.8	919.4	876.2	845.2
57.5°	1931.2	1733.9	1542.6	1332.9	1159.9	956.5	758.9	629.3	549.1	499.8	475.2
60°	1493.1	1339.0	1172.3	999.6	833.0	666.4	505.9	382.5	320.8	283.9	253.0
62.5°	1129.2	999.6	888.4	740.3	610.8	468.8	345.7	246.9	191.2	160.5	148.1
65°	814.5	715.7	616.9	524.5	432.0	327.1	234.4	160.5	111.0	92.4	86.4
67.5°	580.1	499.8	425.7	363.9	296.1	234.4	166.6	111.0	86.4	74.2	67.8
70°	407.1	345.7	296.1	240.8	197.3	154.2	129.5	80.3	49.3	55.6	43.2
72.5°	271.5	228.3	203.7	166.6	135.6	111.0	80.3	55.6	55.6	43.2	37.1
75°	148.1	135.6	104.9	80.3	67.8	61.7	24.6	12.4	6.1	18.5	6.1
77.5°	104.9	92.4	80.3	67.8	55.6	43.2	24.6	24.6	18.5	24.6	12.4
80°	67.8	55.6	49.3	49.3	30.7	18.5	12.4	12.4	18.5	6.1	6.1
82.5°	43.2	37.1	30.7	30.7	30.7	18.5	18.5	18.5	18.5	12.4	12.4
85°	24.6	18.5	12.4	12.4	6.1	12.4	0.0	6.1	6.1	0.0	0.0
87.5°	12.4	6.1	6.1	6.1	6.1	0.0	0.0	6.1	0.0	6.1	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°	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4	13204.4
2.5°	13309.3	13333.9	13364.9	13389.5	13445.1	13457.3	13482.2	13506.9	13525.4	13543.7	13550.0
5°	13395.6	13488.3	13574.7	13667.1	13784.4	13864.7	13957.1	14037.4	14117.7	14185.5	14234.7
7.5°	13420.5	13562.2	13692.0	13852.3	14025.0	14173.3	14327.4	14481.6	14642.1	14765.5	14870.4
10°	13469.8	13642.5	13809.1	14000.3	14222.5	14419.9	14611.1	14814.8	15018.5	15191.2	15345.6
12.5°	13556.1	13747.4	13926.4	14136.2	14364.5	14586.5	14796.3	15024.6	15240.7	15432.0	15604.7
15°	13698.1	13876.9	14049.8	14247.2	14475.5	14679.2	14889.0	15111.0	15327.1	15524.4	15684.9
17.5°	13790.5	13957.1	14129.8	14308.9	14500.1	14685.3	14882.6	15080.2	15277.6	15456.6	15604.7
20°	13790.5	13951.1	14080.6	14241.1	14419.9	14580.4	14740.9	14913.6	15086.3	15234.4	15376.4
22.5°	13679.6	13833.7	13932.5	14055.9	14210.1	14346.0	14432.3	14623.6	14753.1	14882.6	14987.5
25°	13420.5	13531.5	13611.7	13698.1	13821.5	13914.0	13988.1	14099.1	14228.6	14278.2	14352.1
27.5°	12951.4	13031.7	13074.8	13093.4	13155.1	13204.4	13216.8	13266.1	13321.7	13333.9	13364.9
30°	12211.1	12217.2	12198.6	12192.5	12161.5	12124.7	12118.4	12112.3	12087.6	12063.0	12069.1
32.5°	11094.1	11063.4	10989.2	10909.2	10828.9	10742.6	10693.1	10631.4	10594.3	10557.4	10514.3
35°	9650.3	9576.3	9471.5	9372.7	9280.2	9212.1	9101.2	9064.1	9027.3	8977.7	8965.5
37.5°	7953.5	7910.3	7811.5	7737.6	7688.3	7657.3	7601.7	7564.9	7564.9	7546.3	7533.9
40°	6201.0	6188.8	6151.8	6170.3	6145.7	6157.9	6151.8	6139.3	6170.3	6170.3	6182.7
42.5°	4652.3	4658.6	4677.2	4689.4	4726.5	4732.6	4763.5	4763.5	4782.1	4800.4	4812.8
45°	3461.4	3486.3	3486.3	3510.9	3548.0	3554.1	3566.3	3572.7	3584.8	3615.8	3628.0
47.5°	2597.6	2603.7	2603.7	2610.1	2622.3	2634.7	2628.6	2634.7	2653.3	2640.8	2653.3
50°	1919.0	1925.1	1906.6	1888.0	1906.6	1906.6	1900.5	1881.9	1900.5	1875.9	1888.0
52.5°	1308.2	1301.9	1283.3	1289.7	1277.2	1271.1	1271.1	1258.7	1258.7	1258.7	1234.1
55°	826.9	826.9	814.5	814.5	808.4	796.0	789.9	783.5	777.4	771.3	771.3
57.5°	462.7	468.8	450.6	444.2	450.6	444.2	432.0	432.0	432.0	413.5	425.7
60°	253.0	246.9	240.8	234.4	228.3	234.4	234.4	222.2	222.2	222.2	228.3
62.5°	135.6	135.6	129.5	129.5	123.4	123.4	135.6	117.3	123.4	117.3	123.4
65°	74.2	92.4	67.8	67.8	86.4	80.3	74.2	74.2	80.3	67.8	74.2
67.5°	80.3	55.6	49.3	55.6	49.3	49.3	49.3	61.7	55.6	43.2	55.6
70°	37.1	43.2	43.2	30.7	49.3	24.6	43.2	24.6	37.1	30.7	37.1
72.5°	37.1	37.1	37.1	24.6	37.1	24.6	30.7	30.7	24.6	24.6	37.1
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°	12.4	12.4	6.1	6.1	6.1	6.1	12.4	12.4	12.4	0.0	6.1
80°	12.4	12.4	0.0	6.1	0.0	0.0	6.1	0.0	6.1	0.0	12.4
82.5°	6.1	12.4	6.1	6.1	12.4	12.4	12.4	6.1	6.1	6.1	6.1
85°	0.0	6.1	0.0	0.0	0.0	0.0	12.4	0.0	0.0	0.0	6.1
87.5°	0.0	6.1	0.0	0.0	0.0	0.0	6.1	6.1	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: P250238

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	13204.4	13204.4	13204.4	13204.4
2.5°	13556.1	13562.2	13574.7	13568.6
5°	14271.8	14321.3	14346.0	14339.9
7.5°	14944.3	15030.9	15080.2	15080.2
10°	15462.7	15561.5	15635.4	15647.9
12.5°	15740.3	15851.5	15950.3	15925.4
15°	15820.6	15931.8	16030.3	16011.8
17.5°	15728.1	15839.1	15913.3	15900.8
20°	15475.2	15567.6	15641.8	15635.4
22.5°	15080.2	15160.5	15222.2	15215.8
25°	14413.8	14469.4	14518.7	14494.0
27.5°	13389.5	13408.1	13438.8	13402.0
30°	12025.9	12038.1	12050.6	12044.5
32.5°	10495.7	10489.4	10477.2	10464.7
35°	8947.0	8947.0	8953.1	8916.0
37.5°	7540.0	7533.9	7552.4	7533.9
40°	6194.9	6188.8	6213.5	6182.7
42.5°	4831.3	4849.9	4856.0	4856.0
45°	3634.4	3640.5	3646.6	3646.6
47.5°	2653.3	2659.4	2690.3	2653.3
50°	1875.9	1881.9	1888.0	1875.9
52.5°	1240.2	1246.5	1240.2	1221.6
55°	758.9	765.2	765.2	765.2
57.5°	407.1	413.5	413.5	407.1
60°	222.2	215.9	222.2	209.8
62.5°	117.3	129.5	123.4	111.0
65°	74.2	74.2	74.2	86.4
67.5°	61.7	49.3	55.6	43.2
70°	37.1	43.2	43.2	30.7
72.5°	30.7	30.7	30.7	37.1
75°	0.0	0.0	0.0	0.0
77.5°	12.4	12.4	12.4	6.1
80°	6.1	0.0	6.1	0.0
82.5°	6.1	6.1	12.4	6.1
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)