

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: P248451

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200830 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21237.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

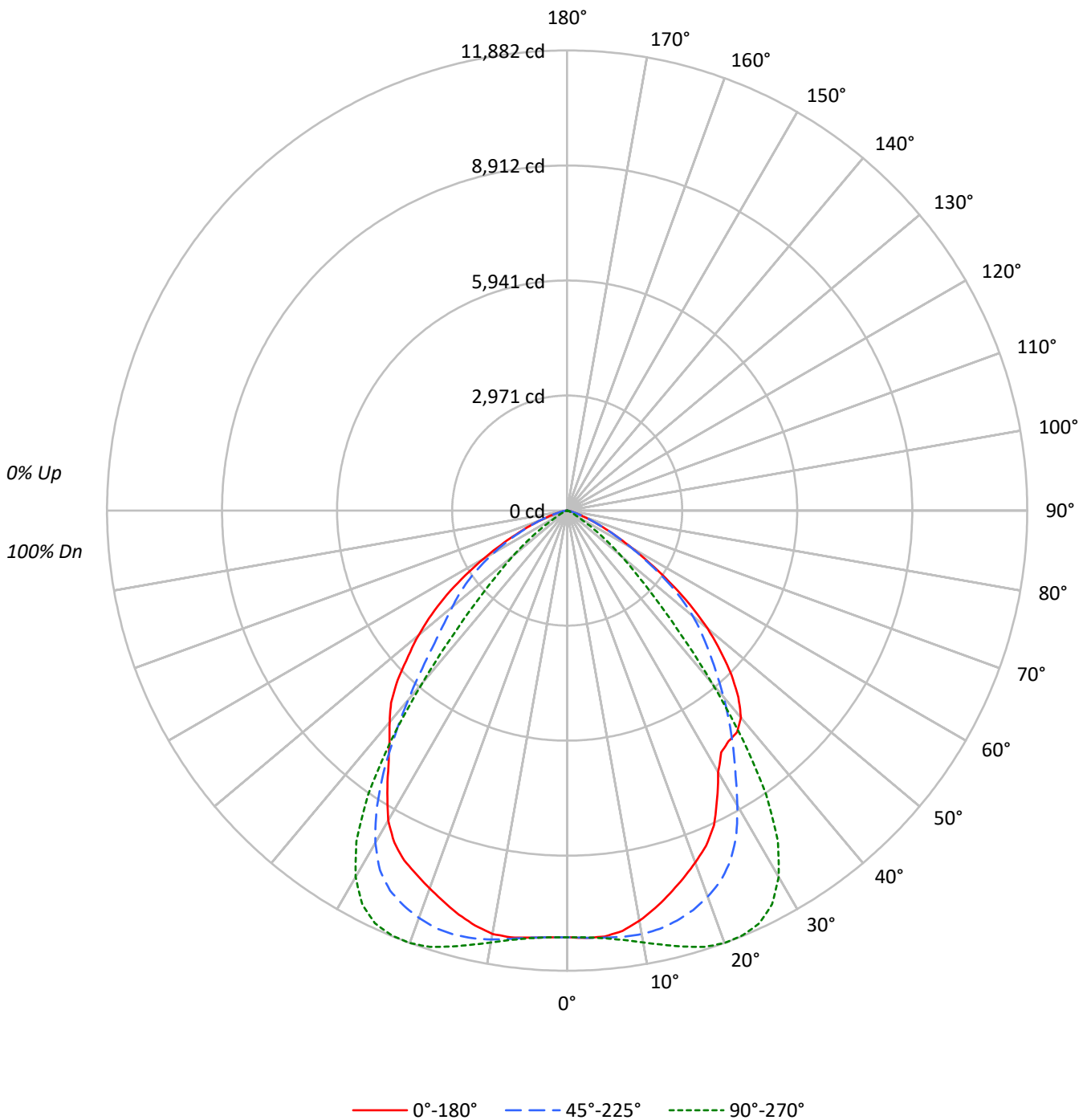
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	339724	339724	339724
5°	341749	343015	342653
10°	336726	354490	347532
15°	326880	372056	344803
20°	317396	389928	340613
25°	305206	399916	339033
30°	277761	388953	328981
35°	273621	337025	302682
40°	281061	233747	286942
45°	261646	141276	269805
50°	226950	87243	240416
55°	174166	45584	204030
60°	118652	18391	153997
65°	73811	9383	106237
70°	40067	5806	64852
75°	20898	2776	38328
80°	9358	3125	20759
85°	6227	2087	18646



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CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1059.5	5.0
10°-20°	3138.6	14.8
20°-30°	4788.3	22.5
30°-40°	4996.6	23.5
40°-50°	3753.1	17.7
50°-60°	2309.2	10.9
60°-70°	939.8	4.4
70°-80°	221.4	1.0
80°-90°	30.5	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°	8986.4	42.3
0°-40°	13983.0	65.8
0°-60°	20045.3	94.4
0°-90°	21237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11017	11017	11017	11017	11017	
5°	11040	11070	11081	11070	11070	###
15°	10239	10959	11654	11333	10801	2884
25°	8970	9976	11754	10824	9964	4078
35°	7269	7473	8953	8274	8041	4589
45°	6000	5193	3240	4836	6187	4578
55°	3240	3076	848	3076	3795	2912
65°	1012	1023	129	1374	1456	1055
75°	175	175	23	310	322	211
85°	18	18	6	41	53	25
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°	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0
2.5°	11046.3	11028.7	11046.3	11046.3	11052.2	11040.5	11046.3	11052.2	11040.5	11040.5	11040.5
5°	11040.5	11028.7	11040.5	11034.6	11046.3	11046.3	11058.1	11058.1	11069.7	11069.7	11087.3
7.5°	10946.9	10923.6	10946.9	10964.5	10976.1	10999.5	11028.7	11052.2	11075.5	11099.0	11128.2
10°	10753.9	10753.9	10771.5	10806.5	10841.6	10882.5	10935.2	10993.7	11052.2	11104.7	11157.4
12.5°	10514.2	10496.6	10531.7	10578.5	10631.1	10695.5	10777.3	10865.0	10958.6	11063.8	11145.8
15°	10239.3	10221.7	10262.7	10309.5	10373.8	10467.4	10566.9	10683.8	10818.3	10958.6	11093.1
17.5°	9958.6	9952.8	9993.7	10058.1	10110.7	10210.0	10338.8	10479.0	10631.1	10818.3	10993.7
20°	9672.2	9666.3	9707.2	9759.9	9830.0	9923.6	10052.2	10215.9	10397.2	10607.8	10812.4
22.5°	9373.8	9379.7	9414.8	9473.3	9531.8	9631.1	9765.6	9929.4	10128.2	10356.2	10584.3
25°	8970.3	8941.1	8987.9	9046.5	9145.8	9227.6	9356.4	9531.8	9736.4	9976.2	10245.2
27.5°	8385.6	8379.7	8420.8	8473.3	8561.0	8660.4	8800.8	8982.1	9198.4	9461.5	9724.7
30°	7800.8	7812.5	7830.1	7882.8	7941.1	8040.6	8180.9	8333.0	8537.7	8789.1	9069.8
32.5°	7403.1	7403.1	7426.6	7461.7	7502.6	7555.2	7654.7	7765.7	7923.7	8099.1	8303.7
35°	7268.6	7245.3	7268.6	7274.5	7280.4	7292.1	7309.6	7344.8	7397.3	7473.4	7549.4
37.5°	7210.3	7192.7	7192.7	7169.3	7140.0	7105.0	7058.2	7005.5	6947.1	6871.0	6812.6
40°	6982.2	6970.5	6958.7	6935.4	6871.0	6800.9	6724.8	6602.0	6467.5	6280.4	6093.4
42.5°	6543.6	6531.9	6526.0	6479.3	6420.7	6338.9	6251.2	6122.5	5953.0	5713.2	5444.2
45°	5999.8	5976.3	5958.9	5917.9	5876.9	5806.8	5724.9	5607.9	5438.3	5192.8	4871.1
47.5°	5368.2	5356.5	5350.6	5333.2	5292.2	5251.2	5198.7	5105.1	4953.0	4719.0	4385.8
50°	4730.8	4707.4	4719.0	4713.3	4695.7	4666.5	4631.3	4567.1	4450.0	4239.6	3935.5
52.5°	3999.8	3999.8	3994.0	4011.5	4017.4	4011.5	4017.4	3947.2	3847.8	3689.8	3432.6
55°	3239.6	3239.6	3257.2	3280.6	3303.9	3309.8	3303.9	3274.8	3204.5	3075.9	2847.8
57.5°	2526.1	2514.5	2549.6	2584.7	2608.1	2631.5	2613.9	2590.5	2549.6	2444.3	2268.9
60°	1923.9	1923.9	1947.2	1970.7	1994.0	2017.5	2011.6	2005.7	1970.7	1900.4	1760.2
62.5°	1415.1	1421.0	1421.0	1438.6	1461.9	1485.3	1502.8	1485.3	1467.8	1421.0	1327.4
65°	1011.6	1005.7	1011.6	1029.2	1046.8	1070.1	1081.9	1076.0	1058.4	1023.3	953.2
67.5°	678.4	672.5	695.8	701.7	713.4	736.9	731.0	736.9	731.0	701.7	643.3
70°	444.4	432.7	444.4	438.6	456.1	462.0	473.6	479.5	473.6	456.1	438.6
72.5°	274.9	269.0	274.9	280.7	286.6	292.3	304.1	304.1	298.2	286.6	263.1
75°	175.4	157.8	163.7	152.1	163.7	163.7	175.4	181.3	175.4	175.4	163.7
77.5°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	111.2	116.9	105.3	99.4
80°	52.7	52.7	58.5	58.5	58.5	64.4	58.5	58.5	58.5	64.4	46.8
82.5°	40.9	35.1	35.1	35.1	40.9	35.1	35.1	35.1	35.1	35.1	35.1
85°	17.6	23.3	17.6	11.7	17.6	17.6	23.3	17.6	17.6	17.6	23.3
87.5°	5.9	5.9	0.0	0.0	0.0	5.9	0.0	5.9	5.9	11.7	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: P248451

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0
2.5°	11046.3	11034.6	11034.6	11028.7	11040.5	11028.7	11034.6	11028.7	11028.7	11040.5	11028.7
5°	11087.3	11093.1	11081.4	11075.5	11093.1	11093.1	11093.1	11081.4	11081.4	11087.3	11081.4
7.5°	11145.8	11157.4	11163.2	11169.1	11180.8	11186.7	11186.7	11180.8	11175.0	11192.6	11169.1
10°	11210.0	11227.6	11262.7	11280.3	11309.5	11309.5	11321.2	11321.2	11309.5	11321.2	11315.3
12.5°	11186.7	11291.9	11350.4	11391.3	11432.2	11467.3	11479.0	11484.9	11479.0	11502.5	11479.0
15°	11227.6	11315.3	11408.9	11479.0	11555.0	11595.9	11607.7	11654.4	11666.2	11672.0	11637.0
17.5°	11163.2	11321.2	11420.5	11525.8	11637.0	11713.0	11783.1	11812.4	11818.3	11829.9	11783.1
20°	11017.0	11192.6	11344.5	11496.6	11625.3	11742.2	11800.7	11882.5	11859.2	11906.0	11841.6
22.5°	10818.3	11017.0	11210.0	11408.9	11543.4	11683.8	11806.5	11864.9	11894.2	11894.2	11824.0
25°	10502.5	10736.4	10946.9	11151.5	11356.3	11525.8	11666.2	11753.9	11771.5	11765.6	11683.8
27.5°	10011.3	10262.7	10508.3	10742.3	10993.7	11192.6	11356.3	11461.4	11490.8	11490.8	11403.0
30°	9332.9	9601.9	9841.7	10122.3	10379.7	10601.9	10830.0	10923.6	10976.1	10976.1	10876.8
32.5°	8525.9	8754.0	8976.2	9251.1	9531.8	9783.2	9999.5	10128.2	10192.6	10186.7	10099.0
35°	7648.8	7759.9	7929.5	8134.2	8385.6	8619.5	8830.0	8952.9	9063.9	9058.0	8976.2
37.5°	6771.6	6742.4	6760.0	6836.0	6993.8	7157.6	7321.3	7438.3	7531.8	7572.8	7555.2
40°	5912.1	5760.0	5613.7	5561.2	5572.8	5631.3	5719.0	5806.8	5912.1	5964.7	5988.0
42.5°	5140.1	4882.9	4625.5	4432.6	4321.4	4286.4	4327.3	4356.5	4420.9	4496.8	4572.9
45°	4520.3	4175.3	3836.1	3537.9	3350.7	3239.6	3216.2	3239.6	3274.8	3350.7	3450.2
47.5°	4011.5	3608.0	3228.0	2894.6	2619.7	2473.6	2432.7	2421.0	2456.0	2526.1	2660.6
50°	3561.2	3157.7	2736.8	2350.7	2064.3	1900.4	1842.1	1818.6	1859.5	1912.2	2034.9
52.5°	3070.0	2672.4	2239.7	1865.4	1567.2	1397.6	1333.3	1298.2	1321.5	1391.8	1514.5
55°	2537.9	2169.4	1777.7	1391.8	1105.2	947.4	871.2	847.9	871.2	947.4	1070.1
57.5°	2005.7	1695.8	1368.3	1005.7	748.5	590.6	514.5	491.2	555.6	584.8	713.4
60°	1567.2	1315.8	1035.1	736.9	514.5	391.8	315.8	298.2	327.5	380.0	485.3
62.5°	1175.4	1017.5	795.3	526.3	380.0	251.4	210.5	193.0	210.5	251.4	333.4
65°	853.8	731.0	555.6	385.9	257.3	187.2	140.4	128.6	146.2	175.4	245.7
67.5°	584.8	491.2	385.9	269.0	175.4	116.9	99.4	99.4	105.3	128.6	181.3
70°	380.0	321.7	245.7	175.4	116.9	87.7	76.0	64.4	76.0	93.6	122.8
72.5°	239.8	204.6	157.8	122.8	87.7	64.4	52.7	46.8	58.5	70.1	93.6
75°	146.2	111.2	81.8	64.4	46.8	46.8	46.8	23.3	29.2	46.8	58.5
77.5°	87.7	76.0	64.4	52.7	40.9	23.3	23.3	23.3	29.2	35.1	52.7
80°	46.8	40.9	29.2	29.2	23.3	17.6	23.3	17.6	11.7	29.2	35.1
82.5°	29.2	23.3	23.3	23.3	29.2	11.7	17.6	11.7	17.6	23.3	17.6
85°	17.6	17.6	17.6	11.7	29.2	11.7	11.7	5.9	5.9	11.7	11.7
87.5°	0.0	5.9	5.9	0.0	5.9	0.0	5.9	5.9	5.9	5.9	5.9
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: P248451

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0	11017.0
2.5°	11034.6	11028.7	11034.6	11028.7	11028.7	11028.7	11034.6	11034.6	11028.7	11028.7	11040.5
5°	11081.4	11081.4	11081.4	11075.5	11069.7	11069.7	11081.4	11081.4	11063.8	11081.4	11081.4
7.5°	11180.8	11163.2	11180.8	11157.4	11145.8	11151.5	11157.4	11145.8	11134.0	11139.9	11139.9
10°	11309.5	11291.9	11291.9	11274.4	11256.8	11245.1	11233.5	11204.2	11175.0	11169.1	11145.8
12.5°	11461.4	11432.2	11414.8	11379.6	11350.4	11309.5	11274.4	11227.6	11169.1	11128.2	11087.3
15°	11613.5	11566.7	11525.8	11467.3	11403.0	11332.8	11256.8	11180.8	11087.3	11005.4	10935.2
17.5°	11736.3	11672.0	11595.9	11502.5	11408.9	11303.6	11192.6	11081.4	10946.9	10841.6	10759.7
20°	11777.2	11683.8	11584.3	11461.4	11338.7	11192.6	11052.2	10906.0	10753.9	10642.8	10549.3
22.5°	11724.7	11613.5	11490.8	11362.1	11198.3	11040.5	10876.8	10707.1	10572.6	10420.6	10332.9
25°	11578.5	11444.0	11309.5	11157.4	10999.5	10824.1	10648.7	10473.3	10309.5	10227.6	10116.6
27.5°	11280.3	11134.0	10987.8	10830.0	10648.7	10473.3	10292.0	10122.3	9982.1	9870.9	9806.7
30°	10753.9	10584.3	10414.8	10245.2	10087.2	9906.0	9736.4	9596.0	9455.7	9368.0	9303.7
32.5°	9946.9	9794.9	9625.4	9461.5	9315.5	9163.4	9023.0	8900.2	8800.8	8742.3	8695.5
35°	8859.3	8707.2	8578.6	8461.7	8338.8	8274.5	8186.8	8116.6	8075.6	8052.3	8046.4
37.5°	7490.9	7403.1	7362.2	7338.9	7315.4	7298.0	7309.6	7338.9	7362.2	7403.1	7449.9
40°	6029.0	6104.9	6128.4	6210.3	6286.2	6385.7	6496.8	6625.5	6730.7	6865.2	6958.7
42.5°	4695.7	4836.1	4999.8	5175.2	5362.3	5543.6	5765.8	5970.5	6157.6	6327.2	6473.4
45°	3608.0	3824.3	4070.0	4321.4	4572.9	4836.1	5105.1	5356.5	5578.7	5760.0	5912.1
47.5°	2812.7	3052.5	3368.3	3678.2	3982.3	4292.2	4590.4	4853.5	5040.7	5216.1	5350.6
50°	2228.0	2502.8	2847.8	3204.5	3537.9	3865.3	4181.0	4426.7	4613.9	4754.2	4853.5
52.5°	1725.0	2052.5	2403.4	2777.7	3134.4	3491.1	3783.4	4011.5	4163.6	4286.4	4362.3
55°	1286.5	1608.1	1982.4	2368.3	2730.9	3075.9	3350.7	3549.6	3684.1	3754.2	3795.1
57.5°	929.8	1222.2	1596.4	1982.4	2309.8	2637.3	2859.5	3040.8	3116.8	3157.7	3175.3
60°	678.4	947.4	1280.6	1614.0	1923.9	2187.0	2380.1	2502.8	2561.3	2584.7	2578.8
62.5°	497.1	731.0	1017.5	1298.2	1549.6	1765.9	1918.0	1999.9	2029.2	2040.8	2023.3
65°	380.0	561.3	807.0	1023.3	1216.4	1374.2	1485.3	1538.0	1555.5	1549.6	1538.0
67.5°	280.7	421.1	602.4	766.1	906.4	1029.2	1087.7	1134.5	1146.1	1128.6	1111.0
70°	198.9	309.9	438.6	549.7	654.9	725.1	789.4	795.3	795.3	789.4	777.8
72.5°	140.4	216.3	298.2	374.3	438.6	491.2	514.5	532.1	526.3	520.4	508.8
75°	93.6	134.5	216.3	233.9	292.3	309.9	333.4	333.4	339.1	321.7	321.7
77.5°	58.5	93.6	128.6	152.1	175.4	198.9	210.5	210.5	216.3	210.5	210.5
80°	35.1	58.5	70.1	105.3	105.3	122.8	128.6	134.5	122.8	140.4	122.8
82.5°	23.3	35.1	52.7	52.7	64.4	76.0	76.0	81.8	81.8	76.0	76.0
85°	17.6	23.3	29.2	35.1	35.1	40.9	35.1	35.1	40.9	46.8	40.9
87.5°	5.9	11.7	5.9	11.7	11.7	23.3	17.6	17.6	17.6	23.3	23.3
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: P248451

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	11017.0	11017.0	11017.0	11017.0
2.5°	11028.7	11034.6	11028.7	11028.7
5°	11081.4	11075.5	11081.4	11069.7
7.5°	11122.3	11122.3	11116.4	11116.4
10°	11122.3	11099.0	11099.0	11099.0
12.5°	11034.6	11005.4	10987.8	10976.1
15°	10882.5	10830.0	10806.5	10800.7
17.5°	10683.8	10637.0	10607.8	10590.2
20°	10455.7	10408.9	10373.8	10379.7
22.5°	10256.8	10204.3	10180.8	10169.1
25°	10058.1	9993.7	9976.2	9964.5
27.5°	9736.4	9701.4	9683.8	9666.3
30°	9245.2	9227.6	9198.4	9239.3
32.5°	8678.0	8648.7	8625.4	8643.0
35°	8052.3	8034.7	8052.3	8040.6
37.5°	7479.3	7496.7	7520.2	7531.8
40°	7029.0	7093.2	7116.7	7128.3
42.5°	6578.7	6654.7	6701.5	6730.7
45°	6023.1	6099.1	6151.7	6186.9
47.5°	5450.1	5514.4	5567.0	5561.2
50°	4929.7	4964.7	4988.0	5011.5
52.5°	4403.3	4403.3	4409.1	4409.1
55°	3806.9	3795.1	3789.3	3795.1
57.5°	3151.8	3140.3	3134.4	3116.8
60°	2555.5	2520.4	2497.0	2497.0
62.5°	1999.9	1959.0	1941.5	1935.6
65°	1502.8	1496.9	1461.9	1456.0
67.5°	1087.7	1064.3	1040.9	1046.8
70°	766.1	731.0	731.0	719.3
72.5°	497.1	479.5	473.6	473.6
75°	309.9	309.9	298.2	321.7
77.5°	204.6	204.6	198.9	204.6
80°	122.8	122.8	122.8	116.9
82.5°	76.0	81.8	76.0	76.0
85°	40.9	46.8	35.1	52.7
87.5°	23.3	29.2	23.3	29.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)