

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: P249603

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200950 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19980.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

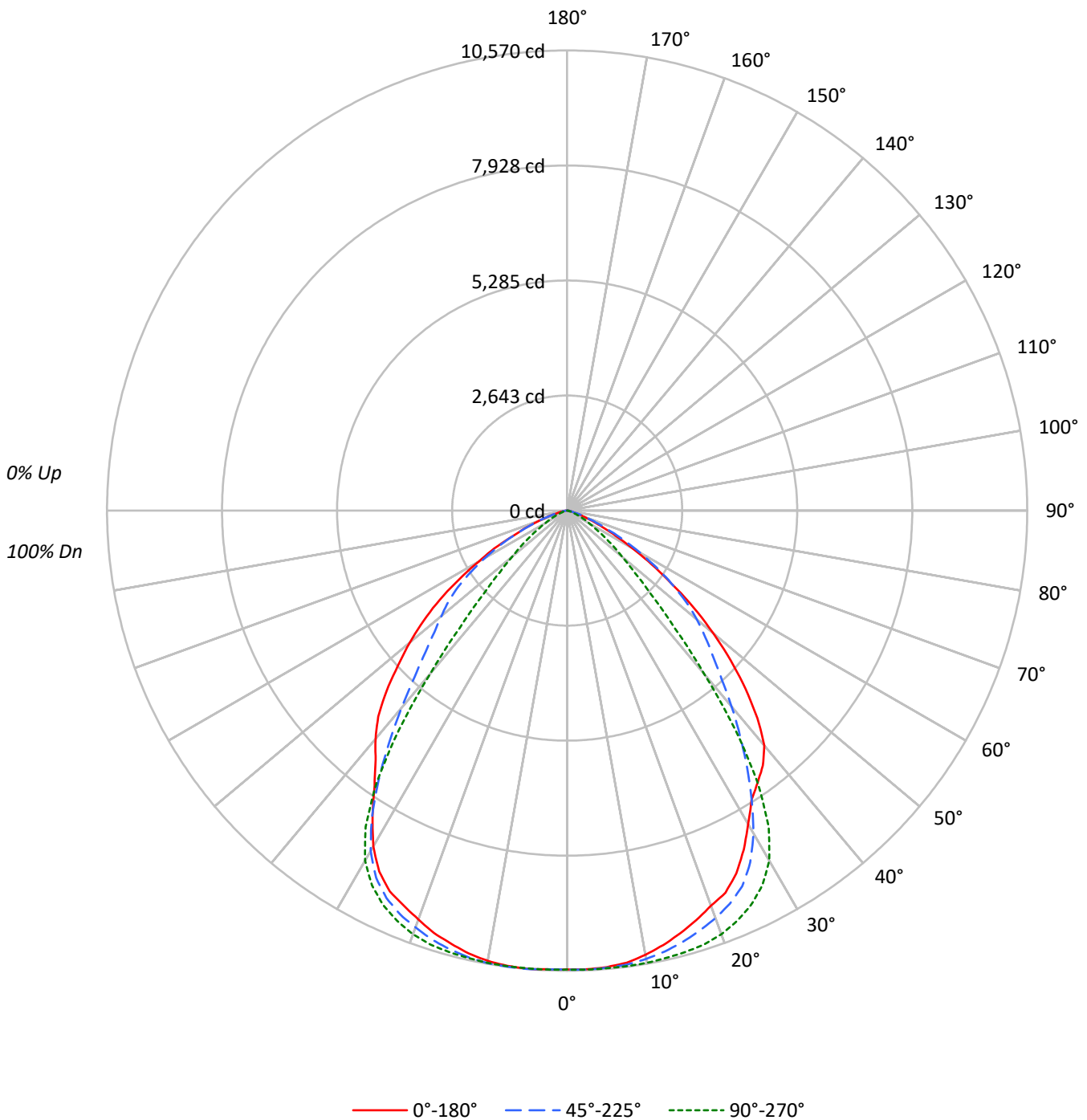
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	325070	325070	325070
5°	325786	326665	327015
10°	324414	330263	328845
15°	320821	335095	328774
20°	316970	339806	327923
25°	312855	340197	328258
30°	295977	330630	317131
35°	287142	287349	290335
40°	283585	197711	275615
45°	252684	118695	256138
50°	210111	78992	226393
55°	157580	54455	191955
60°	106786	36288	144826
65°	64413	23538	99495
70°	35712	12758	61218
75°	16180	5397	31692
80°	14064	6020	22109
85°	16027	7996	22042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.1	5.0
10°-20°	2921.8	14.6
20°-30°	4434.7	22.2
30°-40°	4657.8	23.3
40°-50°	3492.1	17.5
50°-60°	2240.6	11.2
60°-70°	958.5	4.8
70°-80°	226.4	1.1
80°-90°	42.1	0.2
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°	8362.5	41.9
0°-40°	13020.3	65.2
0°-60°	18752.9	93.9
0°-90°	19980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19980.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10542	10542	10542	10542	10542	
5°	10525	10542	10553	10570	10564	###
15°	10050	10259	10497	10429	10299	2835
25°	9195	9518	9999	9818	9648	4201
35°	7628	7203	7633	7543	7713	4787
45°	5794	4736	2722	4600	5874	4438
55°	2931	2931	1013	3056	3570	2659
65°	883	1041	323	1341	1364	942
75°	136	158	45	272	266	198
85°	45	28	23	45	62	48
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°	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8
2.5°	10547.5	10558.9	10553.2	10553.2	10547.5	10553.2	10553.2	10564.5	10564.5	10553.2	10547.5
5°	10524.8	10536.2	10536.2	10524.8	10524.8	10553.2	10536.2	10547.5	10547.5	10541.8	10541.8
7.5°	10474.0	10474.0	10496.6	10479.7	10479.7	10496.6	10490.9	10502.2	10513.6	10519.3	10519.3
10°	10360.7	10372.1	10377.8	10377.8	10383.4	10400.3	10411.7	10434.4	10445.6	10457.0	10462.6
12.5°	10219.4	10236.3	10241.9	10236.3	10253.3	10275.9	10304.2	10332.5	10349.5	10372.1	10389.1
15°	10049.5	10049.5	10060.8	10077.9	10089.2	10123.2	10151.4	10185.3	10230.6	10259.0	10287.2
17.5°	9862.9	9874.2	9891.1	9891.1	9913.8	9970.3	9987.3	10038.3	10089.2	10117.5	10174.1
20°	9659.2	9670.4	9687.4	9698.8	9727.0	9772.3	9806.2	9851.5	9908.1	9959.1	10015.6
22.5°	9500.7	9478.1	9489.3	9500.7	9529.0	9568.6	9608.2	9664.7	9721.4	9772.3	9828.9
25°	9195.1	9200.8	9217.8	9229.0	9263.1	9297.0	9342.3	9410.1	9461.1	9517.7	9579.9
27.5°	8782.1	8787.7	8816.0	8816.0	8844.2	8900.9	8929.1	8985.7	9053.7	9110.2	9183.9
30°	8312.4	8323.7	8323.7	8346.4	8363.3	8391.6	8419.9	8476.5	8510.4	8561.4	8663.3
32.5°	7882.4	7893.6	7887.9	7882.4	7865.4	7859.7	7854.0	7865.4	7876.7	7893.6	7933.2
35°	7627.8	7599.4	7576.8	7537.2	7491.9	7435.3	7384.4	7316.5	7254.2	7203.3	7146.8
37.5°	7384.4	7378.7	7344.8	7288.1	7197.6	7095.8	6977.0	6829.9	6682.7	6524.3	6371.6
40°	7044.9	7027.9	6999.6	6920.4	6818.5	6694.0	6535.6	6354.5	6116.8	5873.5	5624.6
42.5°	6467.7	6473.3	6439.4	6377.1	6281.0	6162.1	5998.0	5800.0	5545.4	5256.7	4934.3
45°	5794.3	5794.3	5783.0	5732.0	5664.2	5568.0	5443.5	5279.4	5030.5	4736.1	4391.0
47.5°	5092.7	5098.3	5081.3	5070.1	5041.7	4979.5	4889.0	4764.5	4589.1	4306.1	3960.9
50°	4379.8	4379.8	4408.0	4402.3	4402.3	4379.8	4340.2	4266.5	4113.8	3887.4	3564.9
52.5°	3666.7	3678.1	3695.1	3717.7	3745.9	3791.2	3745.9	3712.0	3615.8	3440.3	3163.1
55°	2931.1	2942.4	2970.7	3010.3	3044.4	3089.6	3100.8	3100.8	3049.9	2931.1	2721.8
57.5°	2303.1	2286.0	2308.7	2342.7	2387.9	2433.2	2467.1	2506.7	2501.1	2421.9	2252.1
60°	1731.5	1737.2	1754.1	1788.1	1822.1	1861.7	1906.9	1940.9	1957.9	1918.3	1810.7
62.5°	1261.9	1261.9	1284.5	1318.4	1335.4	1392.0	1420.3	1437.3	1454.2	1448.5	1380.7
65°	882.8	894.0	905.4	922.4	939.3	973.2	990.2	1024.2	1035.5	1041.2	990.2
67.5°	622.5	605.5	616.8	628.0	645.1	667.8	701.7	701.7	718.6	718.6	684.7
70°	396.1	396.1	401.8	418.7	430.0	435.7	447.1	458.3	475.3	469.6	469.6
72.5°	266.0	260.3	266.0	271.6	277.3	294.2	294.2	299.9	311.2	316.9	294.2
75°	135.8	141.5	152.7	147.2	164.1	152.7	158.4	175.4	169.7	158.4	158.4
77.5°	113.1	113.1	113.1	107.6	118.8	118.8	113.1	124.5	118.8	118.8	113.1
80°	79.2	84.9	79.2	73.5	79.2	73.5	73.5	73.5	73.5	73.5	67.8
82.5°	62.3	51.0	56.6	51.0	56.6	56.6	51.0	45.3	45.3	51.0	45.3
85°	45.3	33.9	39.6	39.6	33.9	33.9	33.9	33.9	33.9	28.2	28.2
87.5°	28.2	17.0	17.0	17.0	22.6	22.6	22.6	17.0	22.6	22.6	11.4
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°	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8
2.5°	10558.9	10553.2	10564.5	10558.9	10558.9	10553.2	10558.9	10553.2	10564.5	10541.8	10547.5
5°	10558.9	10547.5	10553.2	10558.9	10564.5	10553.2	10553.2	10553.2	10564.5	10553.2	10558.9
7.5°	10536.2	10530.5	10547.5	10558.9	10553.2	10547.5	10558.9	10553.2	10564.5	10558.9	10570.1
10°	10490.9	10496.6	10507.9	10524.8	10530.5	10536.2	10547.5	10547.5	10564.5	10541.8	10553.2
12.5°	10423.0	10445.6	10474.0	10485.2	10507.9	10507.9	10519.3	10524.8	10536.2	10530.5	10547.5
15°	10338.2	10366.4	10400.3	10428.7	10457.0	10474.0	10490.9	10496.6	10513.6	10496.6	10502.2
17.5°	10236.3	10270.2	10321.1	10355.1	10400.3	10417.4	10439.9	10451.3	10468.3	10457.0	10462.6
20°	10094.8	10134.5	10191.0	10241.9	10270.2	10309.8	10338.2	10355.1	10366.4	10355.1	10360.7
22.5°	9896.8	9953.4	10026.9	10066.5	10123.2	10157.1	10162.7	10202.3	10230.6	10202.3	10213.7
25°	9664.7	9721.4	9778.0	9862.9	9913.8	9953.4	9993.0	9998.7	10026.9	10021.2	10015.6
27.5°	9280.0	9353.6	9449.7	9517.7	9585.5	9647.8	9693.1	9704.3	9732.7	9721.4	9727.0
30°	8753.7	8833.0	8923.6	9031.0	9127.2	9189.4	9246.0	9285.6	9313.9	9297.0	9291.3
32.5°	8006.9	8086.1	8182.3	8289.7	8403.0	8493.4	8561.4	8612.3	8646.3	8634.9	8606.7
35°	7152.5	7175.0	7237.3	7322.2	7418.3	7514.5	7576.8	7633.3	7672.9	7684.3	7684.3
37.5°	6275.3	6201.8	6156.5	6156.5	6213.0	6252.6	6309.3	6343.2	6405.5	6428.1	6445.1
40°	5426.5	5256.7	5098.3	4979.5	4900.3	4894.7	4894.7	4911.6	4968.2	5041.7	5109.7
42.5°	4668.3	4396.6	4153.4	3932.7	3774.3	3683.7	3644.1	3649.8	3695.1	3762.9	3876.1
45°	4062.8	3723.3	3417.8	3151.8	2936.8	2795.3	2727.4	2721.8	2755.7	2834.9	2959.5
47.5°	3593.2	3231.0	2885.8	2580.3	2348.3	2195.5	2116.3	2093.7	2116.3	2189.8	2337.0
50°	3202.7	2829.3	2472.8	2155.9	1906.9	1748.5	1674.9	1646.6	1674.9	1737.2	1884.2
52.5°	2840.5	2455.8	2122.0	1816.4	1550.4	1414.6	1335.4	1318.4	1335.4	1408.9	1527.9
55°	2421.9	2093.7	1765.4	1459.9	1228.0	1092.1	1029.8	1012.9	1029.8	1097.8	1222.3
57.5°	2008.8	1725.8	1437.3	1160.0	962.0	843.1	786.6	763.9	803.5	848.7	995.9
60°	1623.9	1397.7	1154.3	911.0	747.0	639.4	594.1	588.4	599.8	656.4	758.2
62.5°	1273.2	1086.5	894.0	696.0	560.2	514.9	458.3	452.7	464.0	497.9	577.2
65°	916.7	797.9	650.7	509.2	401.8	339.5	316.9	322.6	333.8	356.5	430.0
67.5°	639.4	554.5	452.7	356.5	277.3	248.9	226.4	220.7	226.4	266.0	305.6
70°	430.0	379.1	305.6	271.6	192.4	152.7	158.4	141.5	164.1	164.1	198.0
72.5°	282.9	248.9	203.7	158.4	135.8	107.6	107.6	101.9	113.1	118.8	147.2
75°	147.2	113.1	113.1	79.2	56.6	28.2	51.0	45.3	39.6	45.3	56.6
77.5°	101.9	84.9	79.2	62.3	56.6	45.3	45.3	45.3	45.3	51.0	56.6
80°	62.3	62.3	45.3	39.6	33.9	28.2	33.9	33.9	33.9	33.9	39.6
82.5°	39.6	33.9	33.9	28.2	28.2	22.6	22.6	22.6	22.6	22.6	33.9
85°	33.9	22.6	22.6	17.0	22.6	39.6	17.0	22.6	22.6	22.6	17.0
87.5°	11.4	17.0	17.0	17.0	11.4	5.7	11.4	17.0	17.0	28.2	22.6
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°	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8	10541.8
2.5°	10558.9	10564.5	10564.5	10558.9	10558.9	10547.5	10570.1	10553.2	10558.9	10581.4	10564.5
5°	10570.1	10575.8	10575.8	10570.1	10570.1	10570.1	10575.8	10575.8	10570.1	10564.5	10575.8
7.5°	10592.8	10587.1	10587.1	10575.8	10575.8	10564.5	10575.8	10558.9	10570.1	10558.9	10575.8
10°	10564.5	10570.1	10564.5	10558.9	10558.9	10553.2	10553.2	10536.2	10541.8	10524.8	10536.2
12.5°	10547.5	10541.8	10541.8	10530.5	10519.3	10507.9	10502.2	10485.2	10485.2	10445.6	10462.6
15°	10502.2	10507.9	10490.9	10468.3	10457.0	10428.7	10417.4	10394.7	10372.1	10343.8	10349.5
17.5°	10462.6	10445.6	10423.0	10400.3	10355.1	10332.5	10309.8	10275.9	10264.5	10230.6	10219.4
20°	10343.8	10332.5	10304.2	10264.5	10236.3	10185.3	10162.7	10128.8	10100.4	10066.5	10049.5
22.5°	10191.0	10179.6	10145.7	10106.1	10060.8	10038.3	10015.6	9953.4	9925.0	9891.1	9885.4
25°	9998.7	9981.7	9947.7	9902.5	9879.8	9817.6	9794.9	9749.6	9738.4	9704.3	9698.8
27.5°	9704.3	9681.8	9642.2	9585.5	9545.9	9506.3	9483.8	9449.7	9438.5	9404.4	9398.9
30°	9263.1	9234.7	9155.5	9132.9	9064.9	9025.3	9025.3	8980.1	8985.7	8963.2	8963.2
32.5°	8567.1	8521.8	8459.5	8414.2	8368.9	8346.4	8346.4	8329.3	8340.7	8340.7	8352.0
35°	7644.7	7582.5	7548.4	7520.2	7520.2	7542.8	7610.7	7627.8	7661.7	7689.9	7712.6
37.5°	6462.0	6456.4	6496.0	6530.0	6614.8	6711.1	6829.9	6931.8	7027.9	7095.8	7163.7
40°	5183.2	5324.7	5437.8	5596.4	5726.4	5913.1	6128.2	6303.6	6467.7	6586.6	6711.1
42.5°	4045.8	4226.9	4464.6	4696.5	4928.6	5183.2	5466.2	5709.5	5924.5	6088.6	6218.7
45°	3151.8	3400.7	3689.4	3983.6	4283.5	4600.4	4894.7	5143.6	5370.0	5539.7	5669.9
47.5°	2540.7	2812.3	3140.4	3463.0	3802.5	4136.4	4464.6	4679.6	4866.3	5002.1	5121.0
50°	2099.3	2387.9	2733.1	3100.8	3440.3	3774.3	4057.2	4266.5	4419.3	4538.1	4611.7
52.5°	1754.1	2059.7	2427.5	2795.3	3134.8	3440.3	3695.1	3853.5	3978.0	4062.8	4130.7
55°	1448.5	1742.9	2088.0	2433.2	2767.0	3055.6	3264.9	3383.8	3479.9	3530.9	3570.5
57.5°	1182.7	1454.2	1771.1	2088.0	2376.6	2614.3	2778.4	2897.2	2942.4	2982.0	2976.4
60°	928.1	1182.7	1471.2	1742.9	1991.8	2184.1	2303.1	2370.9	2404.8	2421.9	2410.5
62.5°	729.9	962.0	1182.7	1420.3	1601.4	1765.4	1878.7	1878.7	1895.6	1901.3	1918.3
65°	543.2	718.6	911.0	1086.5	1233.5	1341.1	1403.4	1420.3	1443.0	1437.3	1426.0
67.5°	401.8	531.9	673.3	803.5	905.4	973.2	1018.5	1058.2	1052.5	1041.2	1035.5
70°	277.3	362.2	486.7	565.9	639.4	707.4	718.6	724.3	729.9	735.6	724.3
72.5°	192.4	254.6	322.6	390.4	435.7	464.0	492.3	497.9	497.9	497.9	492.3
75°	96.2	130.1	192.4	220.7	260.3	271.6	294.2	294.2	311.2	288.5	282.9
77.5°	84.9	101.9	135.8	158.4	175.4	192.4	198.0	215.0	209.3	198.0	203.7
80°	51.0	62.3	84.9	96.2	118.8	124.5	130.1	135.8	130.1	135.8	135.8
82.5°	39.6	45.3	56.6	56.6	73.5	73.5	79.2	79.2	84.9	84.9	84.9
85°	22.6	39.6	33.9	67.8	45.3	45.3	56.6	67.8	56.6	56.6	67.8
87.5°	22.6	22.6	17.0	22.6	22.6	22.6	28.2	33.9	33.9	39.6	33.9
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: P249603

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10541.8	10541.8	10541.8	10541.8
2.5°	10558.9	10570.1	10553.2	10547.5
5°	10575.8	10575.8	10564.5	10564.5
7.5°	10575.8	10575.8	10558.9	10547.5
10°	10530.5	10530.5	10513.6	10502.2
12.5°	10445.6	10445.6	10439.9	10423.0
15°	10338.2	10338.2	10315.5	10298.6
17.5°	10191.0	10202.3	10174.1	10174.1
20°	10032.6	10026.9	10004.4	9993.0
22.5°	9868.5	9857.2	9851.5	9817.6
25°	9693.1	9681.8	9664.7	9647.8
27.5°	9393.2	9387.5	9370.5	9347.9
30°	8934.8	8929.1	8906.5	8906.5
32.5°	8340.7	8335.0	8312.4	8318.1
35°	7723.9	7746.6	7735.2	7712.6
37.5°	7208.9	7226.0	7237.3	7226.0
40°	6778.9	6829.9	6835.5	6846.9
42.5°	6320.6	6388.5	6411.2	6422.4
45°	5771.6	5833.9	5884.9	5873.5
47.5°	5211.5	5256.7	5302.0	5268.1
50°	4674.0	4702.2	4719.2	4719.2
52.5°	4164.7	4164.7	4159.1	4164.7
55°	3581.8	3581.8	3559.3	3570.5
57.5°	2970.7	2982.0	2965.0	2936.8
60°	2404.8	2376.6	2365.2	2348.3
62.5°	1873.0	1873.0	1833.4	1884.2
65°	1403.4	1386.4	1369.3	1363.6
67.5°	1018.5	1012.9	995.9	990.2
70°	718.6	696.0	690.3	679.0
72.5°	481.0	481.0	469.6	469.6
75°	294.2	266.0	260.3	266.0
77.5°	203.7	198.0	198.0	192.4
80°	135.8	130.1	141.5	124.5
82.5°	84.9	90.5	84.9	90.5
85°	56.6	67.8	62.3	62.3
87.5°	33.9	33.9	33.9	33.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)