

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: P248478

Luminaire Tested: **LD8B200D010 ER8B200850 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248478
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 ER8B200850 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE 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: 22369.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

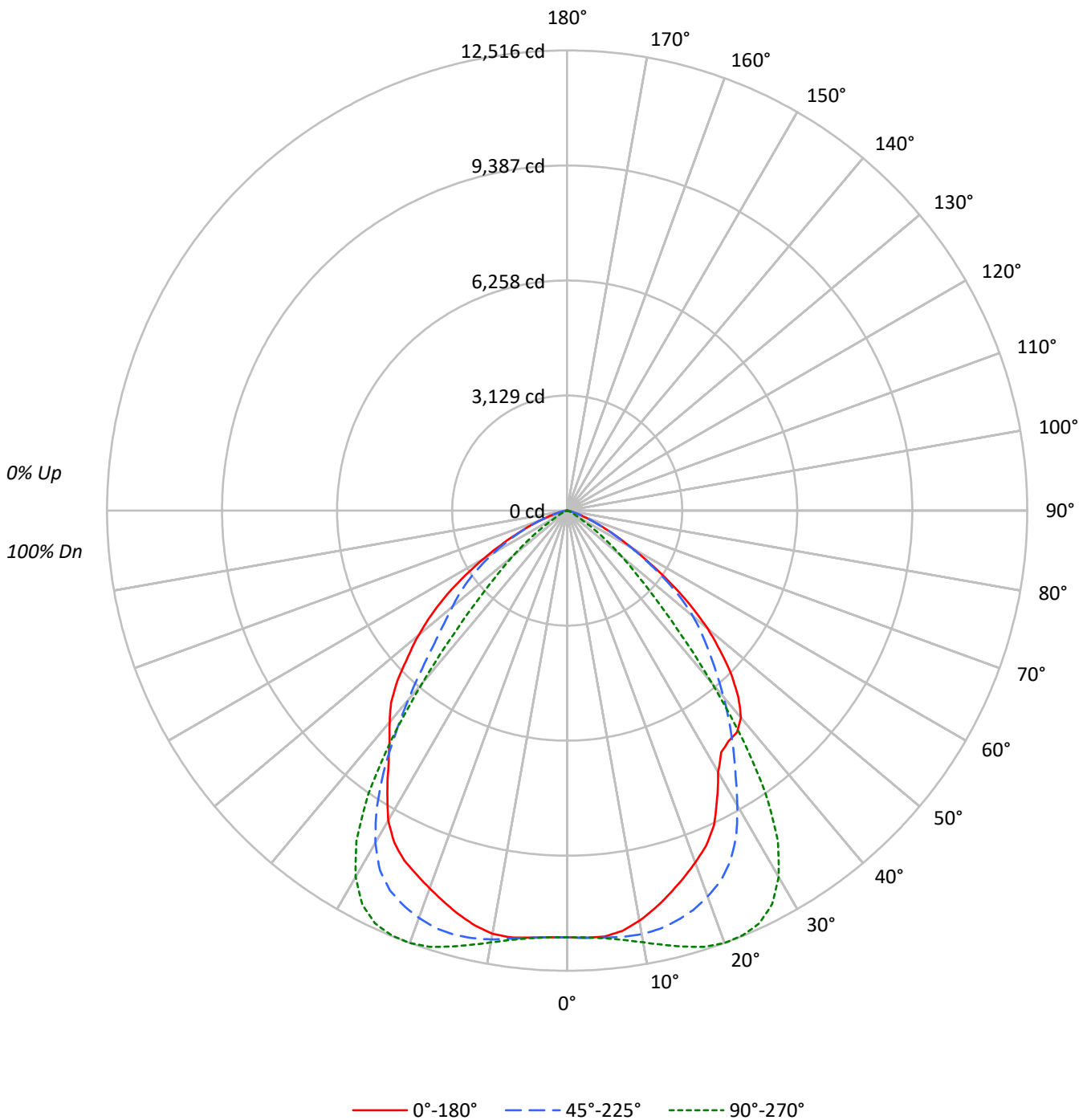
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	357831	357831	357831
5°	359965	361299	360916
10°	354674	373386	366056
15°	344305	391891	363181
20°	334313	410713	358770
25°	321477	421232	357103
30°	292566	409684	346517
35°	288208	354988	318816
40°	296044	246205	302235
45°	275592	148803	284188
50°	239044	91892	253229
55°	183445	48014	214906
60°	124980	19371	162199
65°	77744	9887	111899
70°	42204	6113	68305
75°	22018	2931	40365
80°	9856	3285	21860
85°	6545	2194	19636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.0	5.0
10°-20°	3305.9	14.8
20°-30°	5043.5	22.5
30°-40°	5263.0	23.5
40°-50°	3953.2	17.7
50°-60°	2432.3	10.9
60°-70°	989.9	4.4
70°-80°	233.2	1.0
80°-90°	32.1	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°	9465.4	42.3
0°-40°	14728.3	65.8
0°-60°	21113.8	94.4
0°-90°	22369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22369.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11604	11604	11604	11604	11604	
5°	11629	11660	11672	11660	11660	###
15°	10785	11543	12276	11937	11376	3038
25°	9448	10508	12380	11401	10496	4296
35°	7656	7872	9430	8716	8469	4834
45°	6320	5470	3412	5094	6517	4822
55°	3412	3240	893	3240	3997	3067
65°	1066	1078	136	1447	1534	1111
75°	185	185	25	326	339	222
85°	18	18	6	43	56	26
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°	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2
2.5°	11635.1	11616.6	11635.1	11635.1	11641.3	11629.0	11635.1	11641.3	11629.0	11629.0	11629.0
5°	11629.0	11616.6	11629.0	11622.8	11635.1	11635.1	11647.5	11647.5	11659.7	11659.7	11678.2
7.5°	11530.4	11505.8	11530.4	11548.9	11561.1	11585.9	11616.6	11641.3	11665.9	11690.6	11721.3
10°	11327.1	11327.1	11345.6	11382.6	11419.5	11462.6	11518.0	11579.7	11641.3	11696.6	11752.1
12.5°	11074.6	11056.1	11093.0	11142.3	11197.8	11265.6	11351.8	11444.2	11542.8	11653.5	11739.9
15°	10785.1	10766.6	10809.7	10859.0	10926.8	11025.4	11130.1	11253.2	11394.9	11542.8	11684.4
17.5°	10489.4	10483.3	10526.4	10594.2	10649.6	10754.2	10889.9	11037.6	11197.8	11394.9	11579.7
20°	10187.7	10181.5	10224.6	10280.1	10354.0	10452.5	10588.0	10760.4	10951.4	11173.2	11388.7
22.5°	9873.5	9879.7	9916.6	9978.2	10039.9	10144.5	10286.1	10458.7	10668.0	10908.3	11148.5
25°	9448.5	9417.7	9467.0	9528.7	9633.3	9719.5	9855.1	10039.9	10255.4	10508.0	10791.3
27.5°	8832.5	8826.4	8869.6	8924.9	9017.3	9122.0	9269.9	9460.8	9688.7	9965.9	10243.0
30°	8216.6	8228.9	8247.5	8302.9	8364.4	8469.2	8617.0	8777.2	8992.7	9257.5	9553.2
32.5°	7797.8	7797.8	7822.5	7859.4	7902.5	7958.0	8062.7	8179.7	8346.0	8530.8	8746.3
35°	7656.1	7631.5	7656.1	7662.3	7668.4	7680.8	7699.2	7736.3	7791.6	7871.8	7951.8
37.5°	7594.6	7576.1	7576.1	7551.5	7520.6	7483.7	7434.4	7378.9	7317.4	7237.3	7175.8
40°	7354.4	7342.0	7329.7	7305.1	7237.3	7163.4	7083.2	6953.9	6812.3	6615.1	6418.1
42.5°	6892.4	6880.1	6873.9	6824.6	6763.0	6676.8	6584.4	6448.9	6270.3	6017.7	5734.4
45°	6319.6	6294.9	6276.5	6233.4	6190.1	6116.3	6030.1	5906.8	5728.2	5469.6	5130.8
47.5°	5654.4	5642.0	5635.8	5617.4	5574.3	5531.1	5475.8	5377.2	5217.0	4970.6	4619.6
50°	4982.9	4958.4	4970.6	4964.5	4946.0	4915.3	4878.2	4810.5	4687.2	4465.5	4145.3
52.5°	4213.0	4213.0	4206.9	4225.3	4231.5	4225.3	4231.5	4157.6	4052.9	3886.5	3615.5
55°	3412.2	3412.2	3430.8	3455.5	3480.1	3486.2	3480.1	3449.3	3375.3	3239.8	2999.6
57.5°	2660.8	2648.6	2685.5	2722.4	2747.1	2771.7	2753.2	2728.6	2685.5	2574.6	2389.8
60°	2026.5	2026.5	2051.0	2075.7	2100.3	2125.0	2118.8	2112.7	2075.7	2001.7	1854.0
62.5°	1490.5	1496.7	1496.7	1515.2	1539.8	1564.5	1582.9	1564.5	1546.0	1496.7	1398.1
65°	1065.5	1059.3	1065.5	1084.1	1102.6	1127.2	1139.5	1133.3	1114.8	1077.9	1004.0
67.5°	714.5	708.3	732.9	739.1	751.4	776.2	770.0	776.2	770.0	739.1	677.6
70°	468.1	455.8	468.1	461.9	480.5	486.6	498.9	505.0	498.9	480.5	461.9
72.5°	289.5	283.3	289.5	295.7	301.9	307.9	320.3	320.3	314.1	301.9	277.2
75°	184.8	166.2	172.4	160.2	172.4	172.4	184.8	190.9	184.8	184.8	172.4
77.5°	110.9	110.9	110.9	110.9	110.9	110.9	110.9	117.1	123.1	110.9	104.7
80°	55.5	55.5	61.6	61.6	61.6	67.8	61.6	61.6	61.6	67.8	49.3
82.5°	43.1	36.9	36.9	36.9	43.1	36.9	36.9	36.9	36.9	36.9	36.9
85°	18.5	24.6	18.5	12.4	18.5	18.5	24.6	18.5	18.5	18.5	24.6
87.5°	6.2	6.2	0.0	0.0	0.0	6.2	0.0	6.2	6.2	12.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2
2.5°	11635.1	11622.8	11622.8	11616.6	11629.0	11616.6	11622.8	11616.6	11616.6	11616.6	11616.6
5°	11678.2	11684.4	11672.1	11665.9	11684.4	11684.4	11684.4	11672.1	11672.1	11672.1	11672.1
7.5°	11739.9	11752.1	11758.3	11764.5	11776.8	11783.0	11783.0	11776.8	11770.6	11789.2	11764.5
10°	11807.6	11826.1	11863.0	11881.6	11912.3	11912.3	11924.7	11924.7	11912.3	11924.7	11918.5
12.5°	11783.0	11893.8	11955.4	11998.5	12041.6	12078.5	12090.9	12097.1	12090.9	12115.6	12090.9
15°	11826.1	11918.5	12017.0	12090.9	12170.9	12214.0	12226.4	12275.7	12288.0	12294.2	12257.3
17.5°	11758.3	11924.7	12029.3	12140.2	12257.3	12337.3	12411.2	12442.0	12448.2	12460.4	12411.2
20°	11604.2	11789.2	11949.2	12109.4	12244.9	12368.0	12429.7	12515.9	12491.3	12540.6	12472.8
22.5°	11394.9	11604.2	11807.6	12017.0	12158.7	12306.6	12435.9	12497.4	12528.3	12528.3	12454.3
25°	11062.3	11308.7	11530.4	11745.9	11961.6	12140.2	12288.0	12380.4	12398.9	12392.8	12306.6
27.5°	10544.9	10809.7	11068.5	11314.9	11579.7	11789.2	11961.6	12072.4	12103.2	12103.2	12010.9
30°	9830.4	10113.7	10366.3	10661.9	10933.0	11167.0	11407.3	11505.8	11561.1	11561.1	11456.5
32.5°	8980.4	9220.6	9454.7	9744.2	10039.9	10304.7	10532.5	10668.0	10735.9	10729.7	10637.3
35°	8056.5	8173.5	8352.2	8567.7	8832.5	9078.9	9300.6	9430.1	9547.1	9540.9	9454.7
37.5°	7132.5	7101.8	7120.3	7200.3	7366.6	7539.1	7711.5	7834.8	7933.2	7976.5	7958.0
40°	6227.2	6067.0	5913.0	5857.7	5869.9	5931.5	6023.9	6116.3	6227.2	6282.7	6307.2
42.5°	5414.1	5143.1	4872.0	4668.9	4551.8	4514.8	4557.9	4588.7	4656.5	4736.5	4816.7
45°	4761.2	4397.9	4040.5	3726.5	3529.3	3412.2	3387.7	3412.2	3449.3	3529.3	3634.1
47.5°	4225.3	3800.3	3400.0	3048.9	2759.4	2605.5	2562.4	2550.0	2586.9	2660.8	2802.5
50°	3751.0	3326.0	2882.6	2476.0	2174.3	2001.7	1940.2	1915.5	1958.6	2014.1	2143.4
52.5°	3233.6	2814.8	2359.1	1964.8	1650.7	1472.1	1404.3	1367.4	1392.0	1466.0	1595.3
55°	2673.2	2285.1	1872.4	1466.0	1164.1	997.9	917.7	893.1	917.7	997.9	1127.2
57.5°	2112.7	1786.2	1441.2	1059.3	788.4	622.1	542.0	517.4	585.2	616.0	751.4
60°	1650.7	1385.9	1090.2	776.2	542.0	412.6	332.6	314.1	345.0	400.3	511.2
62.5°	1238.1	1071.7	837.6	554.3	400.3	264.8	221.7	203.3	221.7	264.8	351.2
65°	899.3	770.0	585.2	406.5	271.0	197.1	147.8	135.5	154.0	184.8	258.8
67.5°	616.0	517.4	406.5	283.3	184.8	123.1	104.7	104.7	110.9	135.5	190.9
70°	400.3	338.8	258.8	184.8	123.1	92.4	80.0	67.8	80.0	98.6	129.3
72.5°	252.6	215.5	166.2	129.3	92.4	67.8	55.5	49.3	61.6	73.9	98.6
75°	154.0	117.1	86.2	67.8	49.3	49.3	49.3	24.6	30.7	49.3	61.6
77.5°	92.4	80.0	67.8	55.5	43.1	24.6	24.6	24.6	30.7	36.9	55.5
80°	49.3	43.1	30.7	30.7	24.6	18.5	24.6	18.5	12.4	30.7	36.9
82.5°	30.7	24.6	24.6	24.6	30.7	12.4	18.5	12.4	18.5	24.6	18.5
85°	18.5	18.5	18.5	12.4	30.7	12.4	12.4	6.2	6.2	12.4	12.4
87.5°	0.0	6.2	6.2	0.0	6.2	0.0	6.2	6.2	6.2	6.2	6.2
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°	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2	11604.2
2.5°	11622.8	11616.6	11622.8	11616.6	11616.6	11616.6	11622.8	11622.8	11616.6	11616.6	11629.0
5°	11672.1	11672.1	11672.1	11665.9	11659.7	11659.7	11672.1	11672.1	11653.5	11672.1	11672.1
7.5°	11776.8	11758.3	11776.8	11752.1	11739.9	11745.9	11752.1	11739.9	11727.5	11733.7	11733.7
10°	11912.3	11893.8	11893.8	11875.4	11856.8	11844.5	11832.3	11801.4	11770.6	11764.5	11739.9
12.5°	12072.4	12041.6	12023.2	11986.1	11955.4	11912.3	11875.4	11826.1	11764.5	11721.3	11678.2
15°	12232.6	12183.3	12140.2	12078.5	12010.9	11936.9	11856.8	11776.8	11678.2	11592.0	11518.0
17.5°	12361.9	12294.2	12214.0	12115.6	12017.0	11906.1	11789.2	11672.1	11530.4	11419.5	11333.3
20°	12405.0	12306.6	12201.8	12072.4	11943.0	11789.2	11641.3	11487.3	11327.1	11210.1	11111.6
22.5°	12349.7	12232.6	12103.2	11967.8	11795.2	11629.0	11456.5	11277.8	11136.1	10976.1	10883.7
25°	12195.6	12054.0	11912.3	11752.1	11585.9	11401.1	11216.3	11031.5	10859.0	10772.8	10655.8
27.5°	11881.6	11727.5	11573.5	11407.3	11216.3	11031.5	10840.6	10661.9	10514.2	10397.1	10329.4
30°	11327.1	11148.5	10969.9	10791.3	10624.9	10434.0	10255.4	10107.5	9959.7	9867.3	9799.6
32.5°	10477.1	10317.0	10138.4	9965.9	9812.0	9651.8	9503.9	9374.6	9269.9	9208.3	9159.0
35°	9331.5	9171.3	9035.8	8912.7	8783.3	8715.6	8623.2	8549.2	8506.1	8481.5	8475.3
37.5°	7890.1	7797.8	7754.7	7730.1	7705.4	7687.0	7699.2	7730.1	7754.7	7797.8	7847.0
40°	6350.3	6430.4	6455.1	6541.3	6621.3	6726.1	6843.2	6978.6	7089.4	7231.1	7329.7
42.5°	4946.0	5093.9	5266.3	5451.0	5648.2	5839.1	6073.2	6288.7	6485.8	6664.4	6818.4
45°	3800.3	4028.2	4287.0	4551.8	4816.7	5093.9	5377.2	5642.0	5876.0	6067.0	6227.2
47.5°	2962.7	3215.3	3547.9	3874.3	4194.6	4521.0	4835.1	5112.2	5309.4	5494.1	5635.8
50°	2346.7	2636.2	2999.6	3375.3	3726.5	4071.3	4403.9	4662.7	4859.8	5007.7	5112.2
52.5°	1817.0	2161.9	2531.5	2925.7	3301.5	3677.2	3985.1	4225.3	4385.5	4514.8	4594.9
55°	1355.0	1693.8	2088.1	2494.6	2876.5	3239.8	3529.3	3738.8	3880.5	3954.3	3997.4
57.5°	979.3	1287.4	1681.5	2088.1	2432.9	2777.9	3011.9	3202.9	3282.9	3326.0	3344.6
60°	714.5	997.9	1348.9	1700.0	2026.5	2303.6	2506.9	2636.2	2697.9	2722.4	2716.3
62.5°	523.6	770.0	1071.7	1367.4	1632.2	1860.1	2020.3	2106.5	2137.4	2149.6	2131.2
65°	400.3	591.2	850.0	1077.9	1281.2	1447.4	1564.5	1620.0	1638.4	1632.2	1620.0
67.5°	295.7	443.5	634.5	806.9	954.7	1084.1	1145.7	1195.0	1207.2	1188.8	1170.3
70°	209.5	326.4	461.9	579.0	689.8	763.8	831.5	837.6	837.6	831.5	819.3
72.5°	147.8	227.9	314.1	394.3	461.9	517.4	542.0	560.5	554.3	548.1	535.9
75°	98.6	141.7	227.9	246.4	307.9	326.4	351.2	351.2	357.2	338.8	338.8
77.5°	61.6	98.6	135.5	160.2	184.8	209.5	221.7	221.7	227.9	221.7	221.7
80°	36.9	61.6	73.9	110.9	110.9	129.3	135.5	141.7	129.3	147.8	129.3
82.5°	24.6	36.9	55.5	55.5	67.8	80.0	80.0	86.2	86.2	80.0	80.0
85°	18.5	24.6	30.7	36.9	36.9	43.1	36.9	36.9	43.1	49.3	43.1
87.5°	6.2	12.4	6.2	12.4	12.4	24.6	18.5	18.5	18.5	24.6	24.6
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: P248478

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11604.2	11604.2	11604.2	11604.2
2.5°	11616.6	11622.8	11616.6	11616.6
5°	11672.1	11665.9	11672.1	11659.7
7.5°	11715.2	11715.2	11709.0	11709.0
10°	11715.2	11690.6	11690.6	11690.6
12.5°	11622.8	11592.0	11573.5	11561.1
15°	11462.6	11407.3	11382.6	11376.4
17.5°	11253.2	11204.0	11173.2	11154.7
20°	11013.0	10963.7	10926.8	10933.0
22.5°	10803.5	10748.2	10723.5	10711.1
25°	10594.2	10526.4	10508.0	10495.6
27.5°	10255.4	10218.5	10199.9	10181.5
30°	9738.0	9719.5	9688.7	9731.8
32.5°	9140.6	9109.7	9085.1	9103.7
35°	8481.5	8463.0	8481.5	8469.2
37.5°	7877.9	7896.3	7921.0	7933.2
40°	7403.6	7471.3	7496.0	7508.2
42.5°	6929.4	7009.4	7058.7	7089.4
45°	6344.2	6424.2	6479.6	6516.7
47.5°	5740.6	5808.4	5863.7	5857.7
50°	5192.4	5229.3	5253.9	5278.6
52.5°	4638.0	4638.0	4644.1	4644.1
55°	4009.8	3997.4	3991.3	3997.4
57.5°	3319.9	3307.6	3301.5	3282.9
60°	2691.7	2654.8	2630.0	2630.0
62.5°	2106.5	2063.4	2045.0	2038.8
65°	1582.9	1576.7	1539.8	1533.6
67.5°	1145.7	1121.0	1096.4	1102.6
70°	806.9	770.0	770.0	757.6
72.5°	523.6	505.0	498.9	498.9
75°	326.4	326.4	314.1	338.8
77.5°	215.5	215.5	209.5	215.5
80°	129.3	129.3	129.3	123.1
82.5°	80.0	86.2	80.0	80.0
85°	43.1	49.3	36.9	55.5
87.5°	24.6	30.7	24.6	30.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)