

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: P249432

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249432
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 ER8B200835 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19392.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

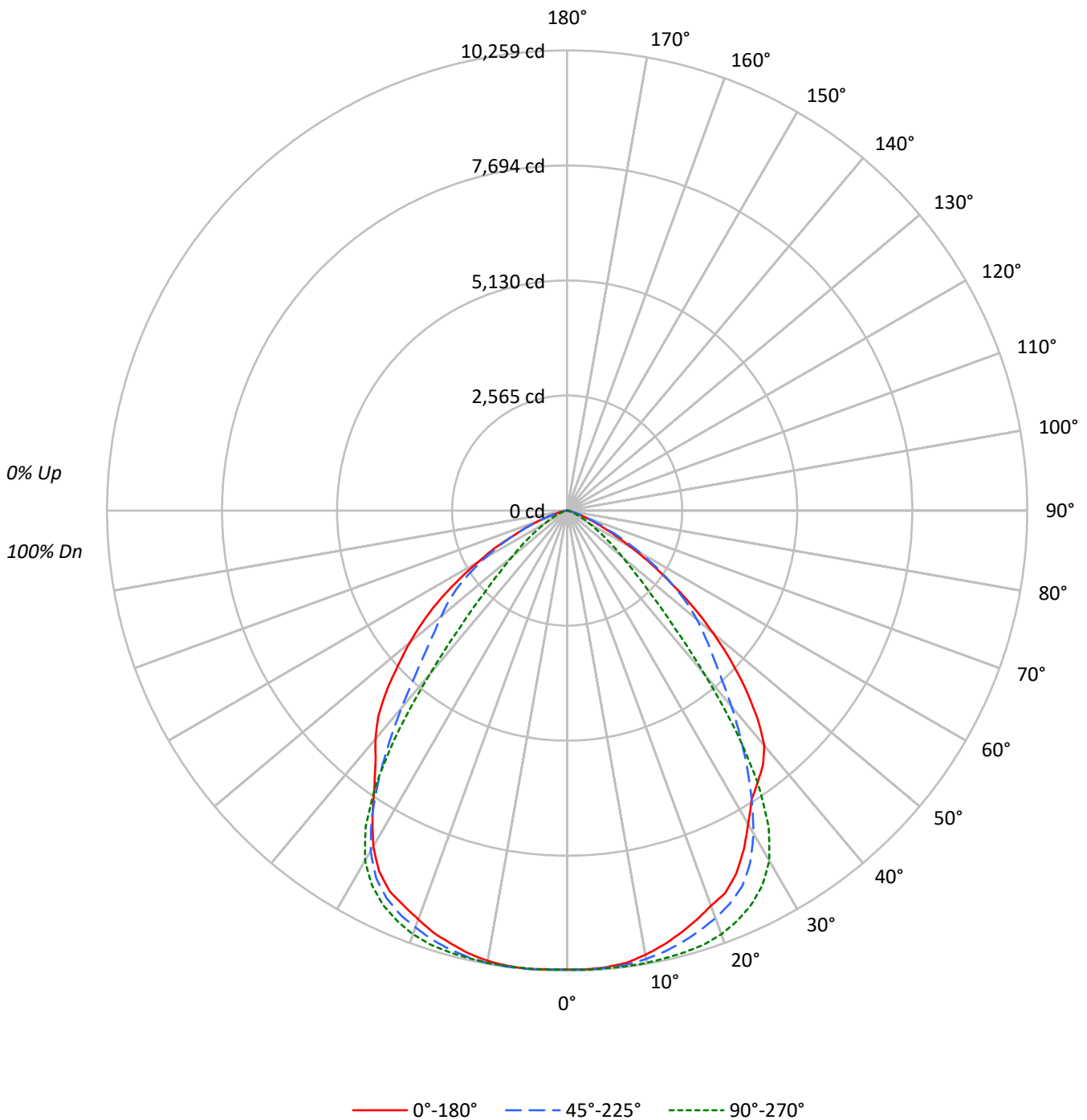
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	315505	315505	315505
5°	316199	317051	317391
10°	314867	320544	319170
15°	311378	325233	319097
20°	307640	329804	318273
25°	303648	330184	318598
30°	287268	320902	307799
35°	278691	278895	281793
40°	275240	191891	267504
45°	245249	115202	248603
50°	203928	76670	219735
55°	152941	52853	186305
60°	103647	35221	140564
65°	62516	22845	96569
70°	34666	12379	59415
75°	15703	5230	30751
80°	13656	5842	21452
85°	15532	7748	21405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.5	5.0
10°-20°	2835.8	14.6
20°-30°	4304.2	22.2
30°-40°	4520.7	23.3
40°-50°	3389.3	17.5
50°-60°	2174.7	11.2
60°-70°	930.3	4.8
70°-80°	219.8	1.1
80°-90°	40.9	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°	8116.4	41.9
0°-40°	12637.1	65.2
0°-60°	18201.1	93.9
0°-90°	19392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10232	10232	10232	10232	10232	
5°	10215	10232	10243	10259	10254	970
15°	9754	9957	10188	10122	9996	2751
25°	8924	9238	9704	9529	9364	4077
35°	7403	6991	7409	7321	7486	4646
45°	5624	4597	2642	4465	5701	4307
55°	2845	2845	983	2966	3465	2580
65°	857	1010	313	1302	1324	915
75°	132	154	44	264	258	192
85°	44	27	22	44	60	46
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°	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6
2.5°	10237.1	10248.1	10242.6	10242.6	10237.1	10242.6	10242.6	10253.6	10253.6	10242.6	10237.1
5°	10215.1	10226.1	10226.1	10215.1	10215.1	10242.6	10226.1	10237.1	10237.1	10231.6	10231.6
7.5°	10165.8	10165.8	10187.7	10171.3	10171.3	10187.7	10182.1	10193.2	10204.2	10209.7	10209.7
10°	10055.8	10066.8	10072.4	10072.4	10077.9	10094.3	10105.3	10127.3	10138.2	10149.2	10154.7
12.5°	9918.6	9935.0	9940.5	9935.0	9951.5	9973.5	10001.0	10028.4	10044.9	10066.8	10083.4
15°	9753.7	9753.7	9764.8	9781.3	9792.3	9825.2	9852.6	9885.6	9929.5	9957.1	9984.5
17.5°	9572.6	9583.6	9600.0	9600.0	9622.0	9676.9	9693.4	9742.9	9792.3	9819.7	9874.7
20°	9374.9	9385.8	9402.3	9413.4	9440.8	9484.7	9517.6	9561.6	9616.5	9666.0	9720.8
22.5°	9221.1	9199.2	9210.0	9221.1	9248.6	9287.0	9325.5	9380.3	9435.3	9484.7	9539.7
25°	8924.5	8930.0	8946.5	8957.4	8990.5	9023.4	9067.3	9133.2	9182.6	9237.6	9297.9
27.5°	8523.6	8529.1	8556.5	8556.5	8584.0	8638.9	8666.3	8721.3	8787.3	8842.1	8913.6
30°	8067.8	8078.7	8078.7	8100.7	8117.1	8144.7	8172.1	8227.0	8260.0	8309.4	8408.3
32.5°	7650.4	7661.3	7655.8	7650.4	7633.9	7628.4	7622.9	7633.9	7644.9	7661.3	7699.7
35°	7403.3	7375.7	7353.8	7315.4	7271.5	7216.5	7167.1	7101.2	7040.7	6991.3	6936.5
37.5°	7167.1	7161.5	7128.6	7073.7	6985.8	6887.0	6771.7	6628.9	6486.0	6332.3	6184.1
40°	6837.6	6821.0	6793.6	6716.7	6617.8	6497.0	6343.3	6167.5	5936.8	5700.7	5459.1
42.5°	6277.3	6282.8	6249.9	6189.4	6096.2	5980.7	5821.5	5629.3	5382.2	5102.0	4789.1
45°	5623.8	5623.8	5612.8	5563.4	5497.5	5404.1	5283.3	5124.1	4882.4	4596.8	4261.7
47.5°	4942.8	4948.3	4931.8	4920.9	4893.3	4833.0	4745.1	4624.3	4454.0	4179.4	3844.4
50°	4250.9	4250.9	4278.3	4272.8	4272.8	4250.9	4212.4	4140.9	3992.7	3773.0	3460.0
52.5°	3558.8	3569.8	3586.3	3608.3	3635.7	3679.6	3635.7	3602.7	3509.4	3339.1	3070.1
55°	2844.8	2855.9	2883.3	2921.7	2954.8	2998.7	3009.6	3009.6	2960.1	2844.8	2641.7
57.5°	2235.3	2218.8	2240.8	2273.7	2317.7	2361.6	2394.5	2433.0	2427.5	2350.6	2185.8
60°	1680.6	1686.1	1702.5	1735.5	1768.4	1806.9	1850.8	1883.7	1900.3	1861.8	1757.4
62.5°	1224.7	1224.7	1246.7	1279.6	1296.1	1351.1	1378.5	1395.0	1411.4	1405.9	1340.0
65°	856.8	867.7	878.7	895.2	911.6	944.6	961.1	994.0	1005.0	1010.5	961.1
67.5°	604.2	587.6	598.7	609.6	626.1	648.1	681.0	681.0	697.4	697.4	664.5
70°	384.5	384.5	390.0	406.4	417.4	422.9	433.9	444.8	461.3	455.8	455.8
72.5°	258.1	252.6	258.1	263.7	269.2	285.6	285.6	291.1	302.1	307.6	285.6
75°	131.8	137.3	148.2	142.8	159.2	148.2	153.7	170.3	164.8	153.7	153.7
77.5°	109.8	109.8	109.8	104.4	115.3	115.3	109.8	120.8	115.3	115.3	109.8
80°	76.9	82.4	76.9	71.4	76.9	71.4	71.4	71.4	71.4	71.4	65.8
82.5°	60.5	49.5	55.0	49.5	55.0	55.0	49.5	43.9	43.9	49.5	43.9
85°	43.9	32.9	38.4	38.4	32.9	32.9	32.9	32.9	32.9	27.4	27.4
87.5°	27.4	16.5	16.5	16.5	21.9	21.9	21.9	16.5	21.9	21.9	11.0
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°	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6
2.5°	10248.1	10242.6	10253.6	10248.1	10248.1	10242.6	10248.1	10242.6	10253.6	10231.6	10237.1
5°	10248.1	10237.1	10242.6	10248.1	10253.6	10242.6	10242.6	10242.6	10253.6	10242.6	10248.1
7.5°	10226.1	10220.6	10237.1	10248.1	10242.6	10237.1	10248.1	10242.6	10253.6	10248.1	10259.0
10°	10182.1	10187.7	10198.7	10215.1	10220.6	10226.1	10237.1	10237.1	10253.6	10231.6	10242.6
12.5°	10116.3	10138.2	10165.8	10176.6	10198.7	10198.7	10209.7	10215.1	10226.1	10220.6	10237.1
15°	10033.9	10061.3	10094.3	10121.8	10149.2	10165.8	10182.1	10187.7	10204.2	10187.7	10193.2
17.5°	9935.0	9967.9	10017.4	10050.3	10094.3	10110.8	10132.7	10143.7	10160.2	10149.2	10154.7
20°	9797.7	9836.2	9891.1	9940.5	9967.9	10006.4	10033.9	10050.3	10061.3	10050.3	10055.8
22.5°	9605.5	9660.5	9731.8	9770.3	9825.2	9858.2	9863.7	9902.1	9929.5	9902.1	9913.1
25°	9380.3	9435.3	9490.2	9572.6	9622.0	9660.5	9698.9	9704.4	9731.8	9726.3	9720.8
27.5°	9006.9	9078.3	9171.6	9237.6	9303.4	9363.9	9407.8	9418.7	9446.3	9435.3	9440.8
30°	8496.1	8573.1	8661.0	8765.2	8858.6	8919.0	8973.9	9012.4	9039.8	9023.4	9017.9
32.5°	7771.2	7848.1	7941.5	8045.8	8155.7	8243.4	8309.4	8358.9	8391.8	8380.8	8353.4
35°	6942.0	6963.9	7024.3	7106.7	7200.0	7293.4	7353.8	7408.7	7447.1	7458.1	7458.1
37.5°	6090.7	6019.3	5975.4	5975.4	6030.2	6068.6	6123.6	6156.5	6217.0	6238.9	6255.4
40°	5266.8	5102.0	4948.3	4833.0	4756.1	4750.6	4750.6	4767.0	4822.0	4893.3	4959.3
42.5°	4530.9	4267.3	4031.1	3816.9	3663.2	3575.3	3536.9	3542.4	3586.3	3652.2	3762.0
45°	3943.3	3613.8	3317.2	3059.0	2850.3	2713.0	2647.2	2641.7	2674.6	2751.4	2872.4
47.5°	3487.4	3135.9	2800.9	2504.3	2279.2	2130.9	2054.0	2032.1	2054.0	2125.4	2268.2
50°	3108.5	2746.1	2400.0	2092.4	1850.8	1697.1	1625.6	1598.2	1625.6	1686.1	1828.8
52.5°	2757.0	2383.5	2059.5	1762.9	1504.8	1373.0	1296.1	1279.6	1296.1	1367.5	1482.9
55°	2350.6	2032.1	1713.5	1416.9	1191.8	1060.0	999.5	983.1	999.5	1065.5	1186.3
57.5°	1949.7	1675.1	1395.0	1125.8	933.7	818.2	763.4	741.4	779.8	823.8	966.6
60°	1576.2	1356.6	1120.3	884.2	725.0	620.6	576.6	571.1	582.1	637.1	735.9
62.5°	1235.8	1054.5	867.7	675.5	543.7	499.8	444.8	439.4	450.3	483.2	560.2
65°	889.7	774.4	631.6	494.3	390.0	329.5	307.6	313.1	324.0	346.0	417.4
67.5°	620.6	538.2	439.4	346.0	269.2	241.6	219.7	214.2	219.7	258.1	296.6
70°	417.4	367.9	296.6	263.7	186.8	148.2	153.7	137.3	159.2	159.2	192.2
72.5°	274.5	241.6	197.7	153.7	131.8	104.4	104.4	98.9	109.8	115.3	142.8
75°	142.8	109.8	109.8	76.9	55.0	27.4	49.5	43.9	38.4	43.9	55.0
77.5°	98.9	82.4	76.9	60.5	55.0	43.9	43.9	43.9	43.9	49.5	55.0
80°	60.5	60.5	43.9	38.4	32.9	27.4	32.9	32.9	32.9	32.9	38.4
82.5°	38.4	32.9	32.9	27.4	27.4	21.9	21.9	21.9	21.9	21.9	32.9
85°	32.9	21.9	21.9	16.5	21.9	38.4	16.5	21.9	21.9	21.9	16.5
87.5°	11.0	16.5	16.5	16.5	11.0	5.5	11.0	16.5	16.5	27.4	21.9
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°	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6	10231.6
2.5°	10248.1	10253.6	10253.6	10248.1	10248.1	10237.1	10259.0	10242.6	10248.1	10270.0	10253.6
5°	10259.0	10264.5	10264.5	10259.0	10259.0	10259.0	10264.5	10264.5	10259.0	10253.6	10264.5
7.5°	10281.1	10275.5	10275.5	10264.5	10264.5	10253.6	10264.5	10248.1	10259.0	10248.1	10264.5
10°	10253.6	10259.0	10253.6	10248.1	10248.1	10242.6	10242.6	10226.1	10231.6	10215.1	10226.1
12.5°	10237.1	10231.6	10231.6	10220.6	10209.7	10198.7	10193.2	10176.6	10176.6	10138.2	10154.7
15°	10193.2	10198.7	10182.1	10160.2	10149.2	10121.8	10110.8	10088.8	10066.8	10039.4	10044.9
17.5°	10154.7	10138.2	10116.3	10094.3	10050.3	10028.4	10006.4	9973.5	9962.4	9929.5	9918.6
20°	10039.4	10028.4	10001.0	9962.4	9935.0	9885.6	9863.7	9830.7	9803.2	9770.3	9753.7
22.5°	9891.1	9880.1	9847.1	9808.7	9764.8	9742.9	9720.8	9660.5	9632.9	9600.0	9594.5
25°	9704.4	9687.9	9655.0	9611.0	9589.0	9528.7	9506.6	9462.7	9451.8	9418.7	9413.4
27.5°	9418.7	9396.8	9358.4	9303.4	9265.0	9226.6	9204.7	9171.6	9160.7	9127.7	9122.3
30°	8990.5	8962.9	8886.0	8864.1	8798.2	8759.7	8759.7	8715.8	8721.3	8699.4	8699.4
32.5°	8314.9	8271.0	8210.5	8166.6	8122.6	8100.7	8100.7	8084.2	8095.2	8095.2	8106.2
35°	7419.7	7359.3	7326.3	7298.9	7298.9	7320.8	7386.8	7403.3	7436.2	7463.6	7485.7
37.5°	6271.8	6266.4	6304.9	6337.8	6420.2	6513.6	6628.9	6727.8	6821.0	6887.0	6952.9
40°	5030.7	5168.0	5277.8	5431.7	5557.8	5739.1	5947.8	6118.1	6277.3	6392.7	6513.6
42.5°	3926.7	4102.5	4333.2	4558.3	4783.5	5030.7	5305.3	5541.4	5750.1	5909.4	6035.7
45°	3059.0	3300.7	3580.8	3866.4	4157.5	4465.1	4750.6	4992.2	5211.9	5376.7	5503.0
47.5°	2465.9	2729.5	3048.0	3361.1	3690.6	4014.6	4333.2	4541.9	4723.1	4854.9	4970.3
50°	2037.5	2317.7	2652.7	3009.6	3339.1	3663.2	3937.8	4140.9	4289.3	4404.6	4475.9
52.5°	1702.5	1999.0	2356.1	2713.0	3042.5	3339.1	3586.3	3740.1	3860.9	3943.3	4009.1
55°	1405.9	1691.6	2026.6	2361.6	2685.6	2965.6	3168.8	3284.3	3377.5	3427.0	3465.4
57.5°	1147.9	1411.4	1719.0	2026.6	2306.6	2537.4	2696.6	2811.9	2855.9	2894.3	2888.8
60°	900.7	1147.9	1427.9	1691.6	1933.2	2119.9	2235.3	2301.1	2334.1	2350.6	2339.6
62.5°	708.5	933.7	1147.9	1378.5	1554.2	1713.5	1823.4	1823.4	1839.8	1845.3	1861.8
65°	527.2	697.4	884.2	1054.5	1197.2	1301.6	1362.1	1378.5	1400.5	1395.0	1384.0
67.5°	390.0	516.3	653.5	779.8	878.7	944.6	988.5	1027.1	1021.6	1010.5	1005.0
70°	269.2	351.5	472.3	549.2	620.6	686.5	697.4	702.9	708.5	714.0	702.9
72.5°	186.8	247.1	313.1	379.0	422.9	450.3	477.9	483.2	483.2	483.2	477.9
75°	93.4	126.3	186.8	214.2	252.6	263.7	285.6	285.6	302.1	280.1	274.5
77.5°	82.4	98.9	131.8	153.7	170.3	186.8	192.2	208.7	203.2	192.2	197.7
80°	49.5	60.5	82.4	93.4	115.3	120.8	126.3	131.8	126.3	131.8	131.8
82.5°	38.4	43.9	55.0	55.0	71.4	71.4	76.9	76.9	82.4	82.4	82.4
85°	21.9	38.4	32.9	65.8	43.9	43.9	55.0	65.8	55.0	55.0	65.8
87.5°	21.9	21.9	16.5	21.9	21.9	21.9	27.4	32.9	32.9	38.4	32.9
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: P249432

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10231.6	10231.6	10231.6	10231.6
2.5°	10248.1	10259.0	10242.6	10237.1
5°	10264.5	10264.5	10253.6	10253.6
7.5°	10264.5	10264.5	10248.1	10237.1
10°	10220.6	10220.6	10204.2	10193.2
12.5°	10138.2	10138.2	10132.7	10116.3
15°	10033.9	10033.9	10011.9	9995.5
17.5°	9891.1	9902.1	9874.7	9874.7
20°	9737.3	9731.8	9709.9	9698.9
22.5°	9578.1	9567.1	9561.6	9528.7
25°	9407.8	9396.8	9380.3	9363.9
27.5°	9116.8	9111.3	9094.7	9072.8
30°	8671.8	8666.3	8644.4	8644.4
32.5°	8095.2	8089.7	8067.8	8073.3
35°	7496.6	7518.6	7507.6	7485.7
37.5°	6996.8	7013.3	7024.3	7013.3
40°	6579.4	6628.9	6634.4	6645.4
42.5°	6134.6	6200.5	6222.5	6233.4
45°	5601.8	5662.3	5711.7	5700.7
47.5°	5058.1	5102.0	5146.0	5113.0
50°	4536.4	4563.8	4580.4	4580.4
52.5°	4042.2	4042.2	4036.7	4042.2
55°	3476.4	3476.4	3454.5	3465.4
57.5°	2883.3	2894.3	2877.8	2850.3
60°	2334.1	2306.6	2295.6	2279.2
62.5°	1817.9	1817.9	1779.5	1828.8
65°	1362.1	1345.6	1329.0	1323.5
67.5°	988.5	983.1	966.6	961.1
70°	697.4	675.5	670.0	659.0
72.5°	466.8	466.8	455.8	455.8
75°	285.6	258.1	252.6	258.1
77.5°	197.7	192.2	192.2	186.8
80°	131.8	126.3	137.3	120.8
82.5°	82.4	87.9	82.4	87.9
85°	55.0	65.8	60.5	60.5
87.5°	32.9	32.9	32.9	32.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)