

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: P248955

Luminaire Tested: **LD8B200D010 ER8B200950 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200950 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15239.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

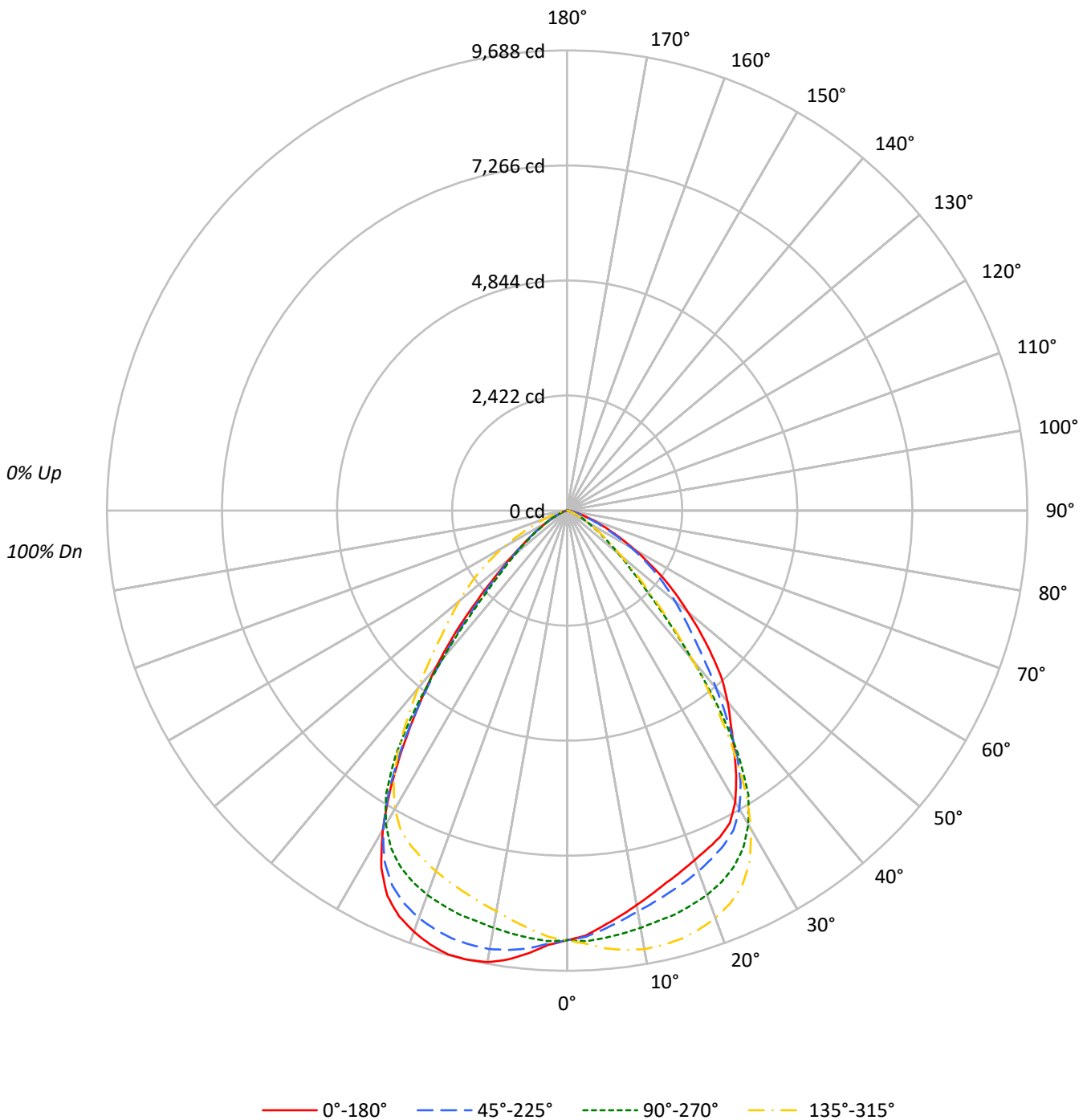
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	278973	278973	278973	278973
5°	271563	279627	289613	279627
10°	264051	279262	302224	279262
15°	258777	280919	308840	280919
20°	257013	282527	309636	282527
25°	258365	281961	304659	281961
30°	251978	271640	276522	271640
35°	230480	236963	224826	236963
40°	211607	164836	172134	164836
45°	188016	100558	116354	100558
50°	159145	67171	74598	67171
55°	131807	45837	48444	45837
60°	100533	30509	30781	30509
65°	71228	19015	17409	19015
70°	51373	12740	11558	12740
75°	32621	6326	5266	6326
80°	22766	4706	3907	4706
85°	20344	0	1557	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.1	5.7
10°-20°	2493.6	16.4
20°-30°	3775.8	24.8
30°-40°	3784.3	24.8
40°-50°	2376.3	15.6
50°-60°	1266.3	8.3
60°-70°	520.7	3.4
70°-80°	137.6	0.9
80°-90°	23.3	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°	7130.5	46.8
0°-40°	10914.7	71.6
0°-60°	14557.4	95.5
0°-90°	15239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15239.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9047	9047	9047	9047	9047	
5°	8773	9034	9356	9034	8773	827
15°	8106	8800	9674	8800	8106	2293
25°	7594	8287	8954	8287	7594	3483
35°	6123	6295	5972	6295	6123	3836
45°	4311	2306	2668	2306	4311	3316
55°	2452	853	901	853	2452	2186
65°	976	261	239	261	976	1013
75°	274	53	44	53	274	310
85°	58	0	4	0	58	63
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°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	8954.2	8945.3	8940.9	8949.8	8954.2	8971.8	8967.5	8976.2	8976.2	8980.7	8989.5
5°	8773.1	8768.5	8773.1	8773.1	8790.7	8808.4	8804.0	8817.3	8826.0	8848.2	8856.9
7.5°	8605.3	8605.3	8600.7	8618.3	8627.3	8653.8	8649.3	8671.4	8684.7	8706.7	8737.6
10°	8432.9	8432.9	8437.3	8450.5	8455.1	8494.7	8494.7	8525.6	8543.3	8565.4	8605.3
12.5°	8265.1	8265.1	8291.6	8282.7	8300.3	8331.2	8344.5	8375.4	8402.0	8446.2	8486.0
15°	8106.0	8106.0	8114.9	8136.9	8150.1	8190.0	8212.0	8247.4	8278.3	8322.5	8380.0
17.5°	7969.0	7964.7	7969.0	7995.6	8022.1	8057.4	8075.1	8119.2	8150.1	8207.6	8260.7
20°	7832.1	7841.0	7841.0	7863.0	7880.7	7924.9	7942.5	7991.2	8026.5	8079.4	8141.4
22.5°	7712.9	7708.5	7708.5	7739.4	7752.7	7792.3	7810.0	7854.1	7894.0	7938.1	7995.6
25°	7593.6	7584.7	7602.5	7606.9	7615.6	7659.8	7673.0	7703.9	7743.8	7783.6	7841.0
27.5°	7416.8	7408.1	7412.5	7430.1	7443.4	7478.7	7487.6	7518.5	7549.4	7584.7	7633.4
30°	7076.7	7067.9	7063.6	7094.5	7107.7	7134.1	7147.4	7200.5	7209.2	7249.0	7284.3
32.5°	6626.1	6621.7	6630.6	6657.0	6670.3	6705.7	6723.4	6754.3	6776.3	6798.5	6833.7
35°	6122.6	6113.7	6122.6	6149.2	6149.2	6180.1	6193.3	6206.4	6202.1	6206.4	6197.7
37.5°	5654.4	5649.9	5654.4	5667.5	5654.4	5667.5	5654.4	5627.9	5579.3	5526.2	5473.1
40°	5256.8	5261.1	5234.8	5252.4	5203.7	5194.9	5146.4	5080.0	4982.9	4876.9	4726.7
42.5°	4832.7	4819.5	4801.8	4810.6	4770.9	4739.8	4660.4	4576.5	4452.7	4276.2	4094.9
45°	4311.4	4307.1	4298.2	4293.8	4267.3	4236.4	4170.0	4072.9	3936.0	3754.9	3538.3
47.5°	3803.4	3790.2	3790.2	3794.5	3763.6	3759.2	3706.2	3622.3	3503.1	3326.3	3101.0
50°	3317.4	3313.0	3322.0	3339.6	3317.4	3308.7	3273.4	3215.9	3109.9	2959.8	2747.6
52.5°	2880.1	2875.8	2884.7	2906.7	2897.8	2906.7	2871.4	2827.2	2756.5	2610.7	2425.2
55°	2451.7	2451.7	2451.7	2478.1	2478.1	2478.1	2460.5	2434.1	2367.7	2261.7	2089.5
57.5°	2005.5	2009.9	2036.4	2040.8	2036.4	2045.4	2040.8	2014.3	1970.3	1895.2	1762.6
60°	1630.1	1630.1	1643.3	1656.6	1652.1	1656.6	1656.6	1643.3	1599.2	1537.3	1431.3
62.5°	1289.9	1303.1	1294.2	1303.1	1320.8	1303.1	1294.2	1285.5	1254.6	1214.8	1126.4
65°	976.2	985.1	985.1	989.5	980.6	985.1	967.5	954.2	936.6	892.4	834.9
67.5°	742.2	742.2	742.2	742.2	737.7	733.3	728.9	715.7	684.8	667.1	605.1
70°	569.8	543.3	543.3	543.3	543.3	547.8	534.6	516.9	508.0	477.1	432.9
72.5°	379.8	388.7	379.8	379.8	371.1	375.5	357.8	348.9	340.2	322.6	296.0
75°	273.8	251.8	260.6	265.1	251.8	260.6	242.9	225.3	225.3	212.0	198.7
77.5°	176.7	172.4	176.7	181.1	176.7	172.4	163.5	154.6	154.6	150.2	136.9
80°	128.2	123.6	123.6	123.6	119.3	123.6	114.9	114.9	106.0	101.6	92.7
82.5°	84.0	84.0	79.5	84.0	79.5	84.0	70.7	70.7	70.7	66.2	57.5
85°	57.5	48.5	48.5	53.1	44.2	53.1	48.5	44.2	39.8	39.8	35.3
87.5°	26.5	30.9	26.5	30.9	26.5	26.5	30.9	26.5	26.5	17.6	17.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	9002.7	9007.1	9007.1	9024.9	9033.6	9038.0	9038.0	9073.5	9060.2	9069.1	9077.8
5°	8874.7	8901.1	8910.0	8910.0	8958.5	8976.2	8993.8	9033.6	9038.0	9064.5	9095.5
7.5°	8750.9	8781.8	8799.6	8839.3	8870.2	8901.1	8954.2	8980.7	9007.1	9042.5	9082.2
10°	8631.6	8667.1	8702.4	8733.3	8781.8	8821.6	8856.9	8918.7	8949.8	8998.4	9051.3
12.5°	8516.9	8565.4	8596.3	8649.3	8702.4	8737.6	8790.7	8848.2	8896.7	8945.3	9007.1
15°	8415.2	8472.7	8508.0	8565.4	8622.9	8671.4	8728.9	8799.6	8834.9	8892.4	8949.8
17.5°	8304.7	8366.7	8410.9	8463.8	8534.5	8587.4	8636.2	8706.7	8750.9	8812.7	8879.1
20°	8190.0	8251.8	8304.7	8357.8	8428.5	8481.4	8538.9	8609.6	8658.2	8720.0	8773.1
22.5°	8053.1	8110.5	8167.8	8229.6	8300.3	8344.5	8410.9	8472.7	8525.6	8583.1	8636.2
25°	7876.3	7947.0	7991.2	8048.5	8106.0	8154.5	8225.2	8287.1	8331.2	8384.3	8432.9
27.5°	7668.7	7721.8	7757.0	7805.6	7863.0	7907.2	7960.1	8022.1	8066.3	8114.9	8150.1
30°	7315.2	7363.9	7394.8	7430.1	7487.6	7527.4	7571.6	7628.9	7659.8	7695.2	7726.1
32.5°	6851.4	6891.2	6908.8	6935.4	6975.2	7014.8	7050.3	7098.8	7112.1	7134.1	7134.1
35°	6180.1	6188.8	6184.4	6193.3	6211.0	6233.0	6263.9	6294.8	6312.4	6312.4	6299.3
37.5°	5393.7	5340.8	5283.3	5239.1	5225.8	5216.9	5234.8	5247.8	5265.7	5274.4	5252.4
40°	4576.5	4457.3	4329.1	4214.2	4134.7	4099.4	4086.2	4094.9	4094.9	4125.8	4125.8
42.5°	3874.2	3688.5	3498.7	3326.3	3211.4	3123.2	3083.4	3083.4	3087.8	3109.9	3123.2
45°	3291.0	3056.9	2835.9	2646.1	2487.0	2372.1	2319.2	2305.9	2301.5	2310.3	2341.2
47.5°	2844.8	2601.9	2372.1	2138.1	1970.3	1855.3	1806.8	1789.0	1771.3	1789.0	1793.5
50°	2495.9	2244.1	2001.2	1767.0	1590.2	1488.6	1426.8	1400.2	1395.9	1395.9	1404.8
52.5°	2177.7	1943.7	1700.8	1462.2	1276.6	1179.5	1122.0	1108.8	1091.1	1108.8	1108.8
55°	1877.3	1643.3	1404.8	1179.5	1024.8	923.3	870.2	852.6	843.7	856.9	856.9
57.5°	1550.6	1351.7	1131.0	927.7	773.1	702.4	662.6	640.6	636.0	644.9	636.0
60°	1272.2	1104.4	914.4	728.9	609.7	534.6	503.7	494.7	485.8	494.7	494.7
62.5°	1007.1	865.9	711.1	569.8	468.2	415.3	379.8	379.8	375.5	375.5	379.8
65°	746.6	636.0	525.7	406.4	326.9	287.1	260.6	260.6	256.2	260.6	256.2
67.5°	543.3	468.2	379.8	296.0	234.2	212.0	194.4	181.1	190.0	181.1	176.7
70°	397.7	335.6	273.8	225.3	181.1	159.1	145.8	141.3	132.6	132.6	132.6
72.5°	265.1	225.3	185.5	145.8	119.3	97.1	92.7	84.0	75.1	79.5	88.4
75°	176.7	150.2	132.6	106.0	79.5	79.5	53.1	53.1	44.2	53.1	39.8
77.5°	123.6	101.6	79.5	66.2	53.1	48.5	35.3	35.3	30.9	30.9	30.9
80°	88.4	75.1	57.5	48.5	35.3	35.3	30.9	26.5	22.0	22.0	26.5
82.5°	53.1	39.8	39.8	35.3	22.0	17.6	13.3	17.6	8.9	8.9	8.9
85°	30.9	26.5	22.0	13.3	8.9	8.9	4.4	0.0	4.4	4.4	0.0
87.5°	17.6	8.9	8.9	4.4	0.0	4.4	4.4	0.0	0.0	0.0	8.9
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°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	9100.0	9095.5	9104.4	9104.4	9130.9	9126.4	9139.6	9139.6	9130.9	9135.3	9152.9
5°	9130.9	9144.2	9170.6	9192.7	9232.4	9250.2	9272.2	9294.4	9298.7	9312.0	9325.3
7.5°	9130.9	9175.1	9206.0	9245.6	9298.7	9329.7	9378.2	9418.0	9435.7	9457.7	9484.2
10°	9113.1	9157.3	9214.7	9258.9	9325.3	9373.8	9422.4	9484.2	9510.7	9546.0	9581.5
12.5°	9077.8	9126.4	9188.2	9245.6	9320.7	9364.9	9426.7	9484.2	9524.0	9572.6	9612.4
15°	9024.9	9082.2	9139.6	9197.1	9276.6	9329.7	9387.1	9453.3	9493.1	9546.0	9581.5
17.5°	8940.9	9002.7	9055.8	9108.7	9183.8	9245.6	9298.7	9360.6	9400.4	9444.6	9493.1
20°	8839.3	8896.7	8954.2	8998.4	9073.5	9126.4	9183.8	9241.3	9272.2	9281.1	9356.2
22.5°	8711.3	8750.9	8795.1	8865.8	8910.0	8958.5	9011.6	9064.5	9095.5	9144.2	9170.6
25°	8499.1	8538.9	8587.4	8618.3	8671.4	8711.3	8764.2	8821.6	8839.3	8874.7	8901.1
27.5°	8203.2	8225.2	8247.4	8273.8	8304.7	8326.9	8357.8	8384.3	8402.0	8419.6	8437.3
30°	7734.9	7734.9	7734.9	7717.2	7730.5	7743.8	7748.1	7743.8	7743.8	7739.4	7739.4
32.5°	7116.5	7081.2	7041.4	7006.1	6992.8	6975.2	6966.3	6953.0	6931.0	6917.7	6922.1
35°	6281.5	6202.1	6153.5	6109.3	6074.1	6047.5	6034.2	6021.0	6016.6	5999.0	5981.2
37.5°	5239.1	5181.7	5146.4	5119.8	5088.9	5062.4	5066.8	5071.3	5084.4	5075.7	5080.0
40°	4134.7	4121.4	4134.7	4103.8	4094.9	4103.8	4125.8	4156.9	4174.5	4192.2	4223.1
42.5°	3145.2	3167.2	3198.3	3198.3	3211.4	3229.2	3255.6	3304.3	3330.7	3361.6	3397.0
45°	2367.7	2394.3	2434.1	2447.2	2456.1	2478.1	2509.2	2548.8	2566.5	2593.0	2623.9
47.5°	1824.4	1842.1	1864.1	1886.3	1908.3	1917.2	1948.1	1948.1	1970.3	1987.9	1996.6
50°	1422.4	1440.1	1457.7	1471.0	1479.9	1493.2	1501.9	1515.2	1519.5	1528.4	1532.8
52.5°	1113.1	1135.3	1135.3	1144.0	1157.3	1170.6	1166.2	1170.6	1175.0	1175.0	1188.2
55°	870.2	870.2	883.5	883.5	892.4	887.9	892.4	892.4	892.4	892.4	896.8
57.5°	649.3	653.8	667.1	658.2	653.8	662.6	653.8	662.6	658.2	667.1	653.8
60°	499.1	499.1	503.7	503.7	508.0	508.0	508.0	503.7	503.7	499.1	499.1
62.5°	375.5	379.8	384.4	379.8	379.8	379.8	375.5	375.5	371.1	366.6	366.6
65°	251.8	247.5	256.2	247.5	251.8	251.8	247.5	251.8	238.6	242.9	238.6
67.5°	181.1	176.7	172.4	176.7	172.4	167.8	167.8	172.4	176.7	163.5	163.5
70°	119.3	123.6	119.3	123.6	128.2	128.2	123.6	119.3	123.6	114.9	119.3
72.5°	75.1	75.1	75.1	75.1	75.1	79.5	79.5	79.5	70.7	70.7	66.2
75°	35.3	48.5	39.8	35.3	48.5	48.5	44.2	44.2	39.8	39.8	39.8
77.5°	35.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	22.0	26.5	22.0
80°	17.6	17.6	17.6	13.3	17.6	17.6	22.0	17.6	17.6	13.3	22.0
82.5°	8.9	8.9	8.9	0.0	4.4	8.9	8.9	4.4	8.9	8.9	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P248955

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	9148.6	9144.2	9148.6	9152.9	9148.6	9144.2	9148.6	9152.9	9135.3	9130.9	9139.6
5°	9342.9	9342.9	9351.7	9356.2	9351.7	9342.9	9342.9	9325.3	9312.0	9298.7	9294.4
7.5°	9510.7	9519.7	9528.4	9532.7	9528.4	9519.7	9510.7	9484.2	9457.7	9435.7	9418.0
10°	9612.4	9625.7	9643.3	9652.0	9643.3	9625.7	9612.4	9581.5	9546.0	9510.7	9484.2
12.5°	9656.6	9669.8	9691.8	9687.5	9691.8	9669.8	9656.6	9612.4	9572.6	9524.0	9484.2
15°	9625.7	9643.3	9665.3	9674.2	9665.3	9643.3	9625.7	9581.5	9546.0	9493.1	9453.3
17.5°	9528.4	9554.9	9568.2	9581.5	9568.2	9554.9	9528.4	9493.1	9444.6	9400.4	9360.6
20°	9395.8	9413.7	9431.3	9435.7	9431.3	9413.7	9395.8	9356.2	9281.1	9272.2	9241.3
22.5°	9206.0	9219.3	9258.9	9245.6	9258.9	9219.3	9206.0	9170.6	9144.2	9095.5	9064.5
25°	8932.0	8945.3	8949.8	8954.2	8949.8	8945.3	8932.0	8901.1	8874.7	8839.3	8821.6
27.5°	8459.4	8459.4	8468.2	8472.7	8468.2	8459.4	8459.4	8437.3	8419.6	8402.0	8384.3
30°	7743.8	7743.8	7743.8	7766.0	7743.8	7743.8	7743.8	7739.4	7739.4	7743.8	7743.8
32.5°	6917.7	6908.8	6900.1	6908.8	6900.1	6908.8	6917.7	6922.1	6917.7	6931.0	6953.0
35°	5981.2	5976.8	5990.1	5972.4	5990.1	5976.8	5981.2	5981.2	5999.0	6016.6	6021.0
37.5°	5084.4	5075.7	5093.3	5075.7	5093.3	5075.7	5084.4	5080.0	5075.7	5084.4	5071.3
40°	4232.0	4240.7	4240.7	4276.2	4240.7	4240.7	4232.0	4223.1	4192.2	4174.5	4156.9
42.5°	3414.7	3441.2	3432.3	3458.9	3432.3	3441.2	3414.7	3397.0	3361.6	3330.7	3304.3
45°	2641.6	2659.4	2659.4	2668.1	2659.4	2659.4	2641.6	2623.9	2593.0	2566.5	2548.8
47.5°	2027.5	2027.5	2027.5	2032.1	2027.5	2027.5	2027.5	1996.6	1987.9	1970.3	1948.1
50°	1541.7	1546.1	1550.6	1555.0	1550.6	1546.1	1541.7	1532.8	1528.4	1519.5	1515.2
52.5°	1183.9	1188.2	1179.5	1188.2	1179.5	1188.2	1183.9	1188.2	1175.0	1175.0	1170.6
55°	896.8	892.4	896.8	901.1	896.8	892.4	896.8	896.8	892.4	892.4	892.4
57.5°	658.2	649.3	649.3	649.3	649.3	649.3	658.2	653.8	667.1	658.2	662.6
60°	490.4	494.7	494.7	499.1	494.7	494.7	490.4	499.1	499.1	503.7	503.7
62.5°	362.2	375.5	366.6	375.5	366.6	375.5	362.2	366.6	366.6	371.1	375.5
65°	234.2	234.2	234.2	238.6	234.2	234.2	234.2	238.6	242.9	238.6	251.8
67.5°	159.1	163.5	172.4	167.8	172.4	163.5	159.1	163.5	163.5	176.7	172.4
70°	128.2	114.9	114.9	128.2	114.9	114.9	128.2	119.3	114.9	123.6	119.3
72.5°	75.1	66.2	75.1	75.1	75.1	66.2	75.1	66.2	70.7	70.7	79.5
75°	39.8	35.3	30.9	44.2	30.9	35.3	39.8	39.8	39.8	39.8	44.2
77.5°	26.5	22.0	30.9	30.9	30.9	22.0	26.5	22.0	26.5	22.0	26.5
80°	13.3	17.6	13.3	22.0	13.3	17.6	13.3	22.0	13.3	17.6	17.6
82.5°	4.4	8.9	8.9	8.9	8.9	8.9	4.4	4.4	8.9	8.9	4.4
85°	0.0	8.9	4.4	4.4	4.4	8.9	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	0.0	0.0	4.4	0.0	0.0	4.4	0.0	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: P248955

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	9139.6	9126.4	9130.9	9104.4	9104.4	9095.5	9100.0	9077.8	9069.1	9060.2	9073.5
5°	9272.2	9250.2	9232.4	9192.7	9170.6	9144.2	9130.9	9095.5	9064.5	9038.0	9033.6
7.5°	9378.2	9329.7	9298.7	9245.6	9206.0	9175.1	9130.9	9082.2	9042.5	9007.1	8980.7
10°	9422.4	9373.8	9325.3	9258.9	9214.7	9157.3	9113.1	9051.3	8998.4	8949.8	8918.7
12.5°	9426.7	9364.9	9320.7	9245.6	9188.2	9126.4	9077.8	9007.1	8945.3	8896.7	8848.2
15°	9387.1	9329.7	9276.6	9197.1	9139.6	9082.2	9024.9	8949.8	8892.4	8834.9	8799.6
17.5°	9298.7	9245.6	9183.8	9108.7	9055.8	9002.7	8940.9	8879.1	8812.7	8750.9	8706.7
20°	9183.8	9126.4	9073.5	8998.4	8954.2	8896.7	8839.3	8773.1	8720.0	8658.2	8609.6
22.5°	9011.6	8958.5	8910.0	8865.8	8795.1	8750.9	8711.3	8636.2	8583.1	8525.6	8472.7
25°	8764.2	8711.3	8671.4	8618.3	8587.4	8538.9	8499.1	8432.9	8384.3	8331.2	8287.1
27.5°	8357.8	8326.9	8304.7	8273.8	8247.4	8225.2	8203.2	8150.1	8114.9	8066.3	8022.1
30°	7748.1	7743.8	7730.5	7717.2	7734.9	7734.9	7734.9	7726.1	7695.2	7659.8	7628.9
32.5°	6966.3	6975.2	6992.8	7006.1	7041.4	7081.2	7116.5	7134.1	7134.1	7112.1	7098.8
35°	6034.2	6047.5	6074.1	6109.3	6153.5	6202.1	6281.5	6299.3	6312.4	6312.4	6294.8
37.5°	5066.8	5062.4	5088.9	5119.8	5146.4	5181.7	5239.1	5252.4	5274.4	5265.7	5247.8
40°	4125.8	4103.8	4094.9	4103.8	4134.7	4121.4	4134.7	4125.8	4125.8	4094.9	4094.9
42.5°	3255.6	3229.2	3211.4	3198.3	3198.3	3167.2	3145.2	3123.2	3109.9	3087.8	3083.4
45°	2509.2	2478.1	2456.1	2447.2	2434.1	2394.3	2367.7	2341.2	2310.3	2301.5	2305.9
47.5°	1948.1	1917.2	1908.3	1886.3	1864.1	1842.1	1824.4	1793.5	1789.0	1771.3	1789.0
50°	1501.9	1493.2	1479.9	1471.0	1457.7	1440.1	1422.4	1404.8	1395.9	1395.9	1400.2
52.5°	1166.2	1170.6	1157.3	1144.0	1135.3	1135.3	1113.1	1108.8	1108.8	1091.1	1108.8
55°	892.4	887.9	892.4	883.5	883.5	870.2	870.2	856.9	856.9	843.7	852.6
57.5°	653.8	662.6	653.8	658.2	667.1	653.8	649.3	636.0	644.9	636.0	640.6
60°	508.0	508.0	508.0	503.7	503.7	499.1	499.1	494.7	494.7	485.8	494.7
62.5°	375.5	379.8	379.8	379.8	384.4	379.8	375.5	379.8	375.5	375.5	379.8
65°	247.5	251.8	251.8	247.5	256.2	247.5	251.8	256.2	260.6	256.2	260.6
67.5°	167.8	167.8	172.4	176.7	172.4	176.7	181.1	176.7	181.1	190.0	181.1
70°	123.6	128.2	128.2	123.6	119.3	123.6	119.3	132.6	132.6	132.6	141.3
72.5°	79.5	79.5	75.1	75.1	75.1	75.1	75.1	88.4	79.5	75.1	84.0
75°	44.2	48.5	48.5	35.3	39.8	48.5	35.3	39.8	53.1	44.2	53.1
77.5°	26.5	26.5	26.5	26.5	26.5	26.5	35.3	30.9	30.9	30.9	35.3
80°	22.0	17.6	17.6	13.3	17.6	17.6	17.6	26.5	22.0	22.0	26.5
82.5°	8.9	8.9	4.4	0.0	8.9	8.9	8.9	8.9	8.9	8.9	17.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	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: P248955

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	9038.0	9038.0	9033.6	9024.9	9007.1	9007.1	9002.7	8989.5	8980.7	8976.2	8976.2
5°	8993.8	8976.2	8958.5	8910.0	8910.0	8901.1	8874.7	8856.9	8848.2	8826.0	8817.3
7.5°	8954.2	8901.1	8870.2	8839.3	8799.6	8781.8	8750.9	8737.6	8706.7	8684.7	8671.4
10°	8856.9	8821.6	8781.8	8733.3	8702.4	8667.1	8631.6	8605.3	8565.4	8543.3	8525.6
12.5°	8790.7	8737.6	8702.4	8649.3	8596.3	8565.4	8516.9	8486.0	8446.2	8402.0	8375.4
15°	8728.9	8671.4	8622.9	8565.4	8508.0	8472.7	8415.2	8380.0	8322.5	8278.3	8247.4
17.5°	8636.2	8587.4	8534.5	8463.8	8410.9	8366.7	8304.7	8260.7	8207.6	8150.1	8119.2
20°	8538.9	8481.4	8428.5	8357.8	8304.7	8251.8	8190.0	8141.4	8079.4	8026.5	7991.2
22.5°	8410.9	8344.5	8300.3	8229.6	8167.8	8110.5	8053.1	7995.6	7938.1	7894.0	7854.1
25°	8225.2	8154.5	8106.0	8048.5	7991.2	7947.0	7876.3	7841.0	7783.6	7743.8	7703.9
27.5°	7960.1	7907.2	7863.0	7805.6	7757.0	7721.8	7668.7	7633.4	7584.7	7549.4	7518.5
30°	7571.6	7527.4	7487.6	7430.1	7394.8	7363.9	7315.2	7284.3	7249.0	7209.2	7200.5
32.5°	7050.3	7014.8	6975.2	6935.4	6908.8	6891.2	6851.4	6833.7	6798.5	6776.3	6754.3
35°	6263.9	6233.0	6211.0	6193.3	6184.4	6188.8	6180.1	6197.7	6206.4	6202.1	6206.4
37.5°	5234.8	5216.9	5225.8	5239.1	5283.3	5340.8	5393.7	5473.1	5526.2	5579.3	5627.9
40°	4086.2	4099.4	4134.7	4214.2	4329.1	4457.3	4576.5	4726.7	4876.9	4982.9	5080.0
42.5°	3083.4	3123.2	3211.4	3326.3	3498.7	3688.5	3874.2	4094.9	4276.2	4452.7	4576.5
45°	2319.2	2372.1	2487.0	2646.1	2835.9	3056.9	3291.0	3538.3	3754.9	3936.0	4072.9
47.5°	1806.8	1855.3	1970.3	2138.1	2372.1	2601.9	2844.8	3101.0	3326.3	3503.1	3622.3
50°	1426.8	1488.6	1590.2	1767.0	2001.2	2244.1	2495.9	2747.6	2959.8	3109.9	3215.9
52.5°	1122.0	1179.5	1276.6	1462.2	1700.8	1943.7	2177.7	2425.2	2610.7	2756.5	2827.2
55°	870.2	923.3	1024.8	1179.5	1404.8	1643.3	1877.3	2089.5	2261.7	2367.7	2434.1
57.5°	662.6	702.4	773.1	927.7	1131.0	1351.7	1550.6	1762.6	1895.2	1970.3	2014.3
60°	503.7	534.6	609.7	728.9	914.4	1104.4	1272.2	1431.3	1537.3	1599.2	1643.3
62.5°	379.8	415.3	468.2	569.8	711.1	865.9	1007.1	1126.4	1214.8	1254.6	1285.5
65°	260.6	287.1	326.9	406.4	525.7	636.0	746.6	834.9	892.4	936.6	954.2
67.5°	194.4	212.0	234.2	296.0	379.8	468.2	543.3	605.1	667.1	684.8	715.7
70°	145.8	159.1	181.1	225.3	273.8	335.6	397.7	432.9	477.1	508.0	516.9
72.5°	92.7	97.1	119.3	145.8	185.5	225.3	265.1	296.0	322.6	340.2	348.9
75°	53.1	79.5	79.5	106.0	132.6	150.2	176.7	198.7	212.0	225.3	225.3
77.5°	35.3	48.5	53.1	66.2	79.5	101.6	123.6	136.9	150.2	154.6	154.6
80°	30.9	35.3	35.3	48.5	57.5	75.1	88.4	92.7	101.6	106.0	114.9
82.5°	13.3	17.6	22.0	35.3	39.8	39.8	53.1	57.5	66.2	70.7	70.7
85°	4.4	8.9	8.9	13.3	22.0	26.5	30.9	35.3	39.8	39.8	44.2
87.5°	4.4	4.4	0.0	4.4	8.9	8.9	17.6	17.6	17.6	26.5	26.5
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: P248955

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9	9046.9
2.5°	8967.5	8971.8	8954.2	8949.8	8940.9	8945.3	8954.2
5°	8804.0	8808.4	8790.7	8773.1	8773.1	8768.5	8773.1
7.5°	8649.3	8653.8	8627.3	8618.3	8600.7	8605.3	8605.3
10°	8494.7	8494.7	8455.1	8450.5	8437.3	8432.9	8432.9
12.5°	8344.5	8331.2	8300.3	8282.7	8291.6	8265.1	8265.1
15°	8212.0	8190.0	8150.1	8136.9	8114.9	8106.0	8106.0
17.5°	8075.1	8057.4	8022.1	7995.6	7969.0	7964.7	7969.0
20°	7942.5	7924.9	7880.7	7863.0	7841.0	7841.0	7832.1
22.5°	7810.0	7792.3	7752.7	7739.4	7708.5	7708.5	7712.9
25°	7673.0	7659.8	7615.6	7606.9	7602.5	7584.7	7593.6
27.5°	7487.6	7478.7	7443.4	7430.1	7412.5	7408.1	7416.8
30°	7147.4	7134.1	7107.7	7094.5	7063.6	7067.9	7076.7
32.5°	6723.4	6705.7	6670.3	6657.0	6630.6	6621.7	6626.1
35°	6193.3	6180.1	6149.2	6149.2	6122.6	6113.7	6122.6
37.5°	5654.4	5667.5	5654.4	5667.5	5654.4	5649.9	5654.4
40°	5146.4	5194.9	5203.7	5252.4	5234.8	5261.1	5256.8
42.5°	4660.4	4739.8	4770.9	4810.6	4801.8	4819.5	4832.7
45°	4170.0	4236.4	4267.3	4293.8	4298.2	4307.1	4311.4
47.5°	3706.2	3759.2	3763.6	3794.5	3790.2	3790.2	3803.4
50°	3273.4	3308.7	3317.4	3339.6	3322.0	3313.0	3317.4
52.5°	2871.4	2906.7	2897.8	2906.7	2884.7	2875.8	2880.1
55°	2460.5	2478.1	2478.1	2478.1	2451.7	2451.7	2451.7
57.5°	2040.8	2045.4	2036.4	2040.8	2036.4	2009.9	2005.5
60°	1656.6	1656.6	1652.1	1656.6	1643.3	1630.1	1630.1
62.5°	1294.2	1303.1	1320.8	1303.1	1294.2	1303.1	1289.9
65°	967.5	985.1	980.6	989.5	985.1	985.1	976.2
67.5°	728.9	733.3	737.7	742.2	742.2	742.2	742.2
70°	534.6	547.8	543.3	543.3	543.3	543.3	569.8
72.5°	357.8	375.5	371.1	379.8	379.8	388.7	379.8
75°	242.9	260.6	251.8	265.1	260.6	251.8	273.8
77.5°	163.5	172.4	176.7	181.1	176.7	172.4	176.7
80°	114.9	123.6	119.3	123.6	123.6	123.6	128.2
82.5°	70.7	84.0	79.5	84.0	79.5	84.0	84.0
85°	48.5	53.1	44.2	53.1	48.5	48.5	57.5
87.5°	30.9	26.5	26.5	30.9	26.5	30.9	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)