

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: P248800

Luminaire Tested: **LD8B150D010 ER8B150850 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248800  
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: LD8B150D010 ER8B150850 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15235.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

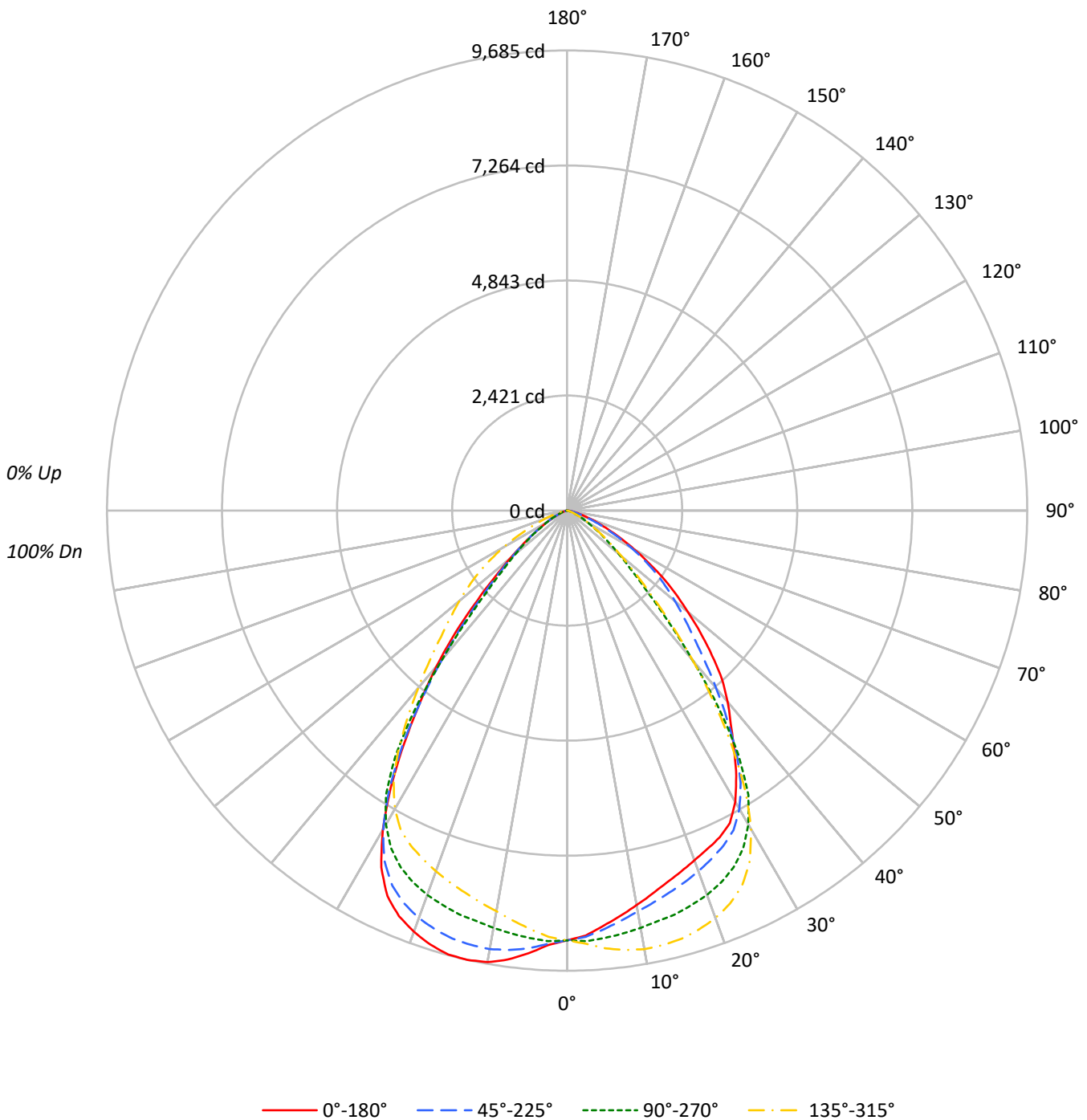
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**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°	278899	278899	278899	278899
5°	271492	279556	289535	279556
10°	263982	279190	302145	279190
15°	258707	280846	308760	280846
20°	256947	282455	309553	282455
25°	258297	281886	304577	281886
30°	251910	271569	276447	271569
35°	230420	236899	224770	236899
40°	211551	164792	172090	164792
45°	187968	100532	116323	100532
50°	159102	67157	74578	67157
55°	131775	45826	48434	45826
60°	100502	30503	30775	30503
65°	71214	19007	17402	19007
70°	51364	12731	11558	12731
75°	32621	6326	5266	6326
80°	22766	4706	3907	4706
85°	20309	0	1557	0



TEST NUMBER: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	860.9	5.7
10°-20°	2492.9	16.4
20°-30°	3774.8	24.8
30°-40°	3783.3	24.8
40°-50°	2375.7	15.6
50°-60°	1266.0	8.3
60°-70°	520.6	3.4
70°-80°	137.5	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°	7128.6	46.8
0°-40°	10911.9	71.6
0°-60°	14553.6	95.5
0°-90°	15235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15235.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9044	9044	9044	9044	9044	
5°	8771	9031	9354	9031	8771	827
15°	8104	8797	9672	8797	8104	2292
25°	7592	8285	8952	8285	7592	3482
35°	6121	6293	5971	6293	6121	3835
45°	4310	2305	2667	2305	4310	3315
55°	2451	852	901	852	2451	2185
65°	976	260	238	260	976	1012
75°	274	53	44	53	274	310
85°	57	0	4	0	57	63
90°	0	0	0	0	0	



TEST NUMBER: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	8951.8	8942.9	8938.6	8947.5	8951.8	8969.5	8965.1	8973.8	8973.8	8978.4	8987.1
5°	8770.8	8766.2	8770.8	8770.8	8788.4	8806.0	8801.7	8815.0	8823.7	8845.9	8854.6
7.5°	8603.0	8603.0	8598.5	8616.1	8625.0	8651.5	8647.0	8669.2	8682.4	8704.4	8735.3
10°	8430.7	8430.7	8435.0	8448.3	8452.9	8492.5	8492.5	8523.4	8541.0	8563.2	8603.0
12.5°	8262.9	8262.9	8289.4	8280.5	8298.2	8329.1	8342.3	8373.2	8399.8	8443.9	8483.8
15°	8103.8	8103.8	8112.7	8134.7	8148.0	8187.8	8209.8	8245.3	8276.2	8320.3	8377.8
17.5°	7967.0	7962.6	7967.0	7993.5	8020.0	8055.3	8072.9	8117.1	8148.0	8205.5	8258.5
20°	7830.1	7839.0	7839.0	7861.0	7878.6	7922.8	7940.4	7989.1	8024.4	8077.3	8139.3
22.5°	7710.8	7706.5	7706.5	7737.4	7750.6	7790.3	7807.9	7852.1	7891.9	7936.1	7993.5
25°	7591.6	7582.7	7600.5	7604.9	7613.6	7657.8	7671.0	7701.9	7741.7	7781.5	7839.0
27.5°	7414.9	7406.2	7410.5	7428.2	7441.4	7476.7	7485.6	7516.5	7547.4	7582.7	7631.4
30°	7074.8	7066.1	7061.7	7092.6	7105.9	7132.2	7145.5	7198.6	7207.3	7247.1	7282.4
32.5°	6624.3	6620.0	6628.9	6655.2	6668.5	6704.0	6721.6	6752.5	6774.5	6796.7	6831.9
35°	6121.0	6112.1	6121.0	6147.5	6147.5	6178.4	6191.7	6204.8	6200.4	6204.8	6196.1
37.5°	5652.9	5648.4	5652.9	5666.0	5652.9	5666.0	5652.9	5626.4	5577.9	5524.8	5471.7
40°	5255.4	5259.7	5233.4	5251.0	5202.3	5193.6	5145.0	5078.7	4981.6	4875.6	4725.5
42.5°	4831.5	4818.2	4800.6	4809.3	4769.7	4738.6	4659.1	4575.3	4451.6	4275.1	4093.8
45°	4310.3	4306.0	4297.0	4292.7	4266.1	4235.2	4168.9	4071.8	3934.9	3753.9	3537.4
47.5°	3802.4	3789.2	3789.2	3793.5	3762.6	3758.3	3705.2	3621.4	3502.1	3325.4	3100.2
50°	3316.5	3312.2	3321.1	3338.7	3316.5	3307.8	3272.5	3215.1	3109.1	2959.0	2746.8
52.5°	2879.4	2875.0	2883.9	2905.9	2897.0	2905.9	2870.6	2826.5	2755.8	2610.0	2424.6
55°	2451.1	2451.1	2451.1	2477.4	2477.4	2477.4	2459.8	2433.5	2367.1	2261.1	2089.0
57.5°	2005.0	2009.4	2035.9	2040.3	2035.9	2044.8	2040.3	2013.7	1969.7	1894.7	1762.2
60°	1629.6	1629.6	1642.9	1656.2	1651.6	1656.2	1656.2	1642.9	1598.7	1536.9	1431.0
62.5°	1289.5	1302.8	1293.9	1302.8	1320.4	1302.8	1293.9	1285.2	1254.3	1214.5	1126.1
65°	976.0	984.9	984.9	989.2	980.3	984.9	967.2	954.0	936.3	892.2	834.7
67.5°	742.0	742.0	742.0	742.0	737.5	733.1	728.7	715.5	684.6	666.9	605.0
70°	569.7	543.2	543.2	543.2	543.2	547.7	534.4	516.8	507.9	477.0	432.8
72.5°	379.7	388.6	379.7	379.7	371.0	375.4	357.7	348.8	340.1	322.5	295.9
75°	273.8	251.8	260.5	265.0	251.8	260.5	242.9	225.2	225.2	212.0	198.7
77.5°	176.7	172.3	176.7	181.1	176.7	172.3	163.4	154.5	154.5	150.1	136.9
80°	128.2	123.6	123.6	123.6	119.2	123.6	114.9	114.9	106.0	101.6	92.7
82.5°	84.0	84.0	79.4	84.0	79.4	84.0	70.7	70.7	70.7	66.2	57.4
85°	57.4	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



TEST NUMBER: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	9000.4	9004.7	9004.7	9022.5	9031.3	9035.6	9035.6	9071.1	9057.8	9066.7	9075.4
5°	8872.4	8898.8	8907.7	8907.7	8956.2	8973.8	8991.5	9031.3	9035.6	9062.2	9093.1
7.5°	8748.6	8779.5	8797.3	8836.9	8867.8	8898.8	8951.8	8978.4	9004.7	9040.2	9079.8
10°	8629.4	8664.8	8700.1	8731.0	8779.5	8819.3	8854.6	8916.4	8947.5	8996.0	9048.9
12.5°	8514.7	8563.2	8594.1	8647.0	8700.1	8735.3	8788.4	8845.9	8894.4	8942.9	9004.7
15°	8413.0	8470.5	8505.7	8563.2	8620.6	8669.2	8726.6	8797.3	8832.6	8890.0	8947.5
17.5°	8302.5	8364.5	8408.7	8461.6	8532.3	8585.2	8633.9	8704.4	8748.6	8810.4	8876.8
20°	8187.8	8249.6	8302.5	8355.6	8426.3	8479.2	8536.6	8607.4	8655.9	8717.7	8770.8
22.5°	8050.9	8108.4	8165.6	8227.4	8298.2	8342.3	8408.7	8470.5	8523.4	8580.8	8633.9
25°	7874.3	7945.0	7989.1	8046.4	8103.8	8152.4	8223.1	8284.9	8329.1	8382.1	8430.7
27.5°	7666.7	7719.7	7755.0	7803.5	7861.0	7905.2	7958.1	8020.0	8064.2	8112.7	8148.0
30°	7313.3	7362.0	7392.9	7428.2	7485.6	7525.4	7569.6	7626.9	7657.8	7693.2	7724.1
32.5°	6849.6	6889.4	6907.0	6933.6	6973.4	7013.0	7048.4	7097.0	7110.2	7132.2	7132.2
35°	6178.4	6187.2	6182.8	6191.7	6209.3	6231.3	6262.2	6293.1	6310.8	6310.8	6297.7
37.5°	5392.3	5339.4	5281.9	5237.7	5224.5	5215.6	5233.4	5246.5	5264.3	5273.0	5251.0
40°	4575.3	4456.1	4327.9	4213.1	4133.6	4098.4	4085.1	4093.8	4093.8	4124.7	4124.7
42.5°	3873.1	3687.5	3497.8	3325.4	3210.6	3122.4	3082.6	3082.6	3087.0	3109.1	3122.4
45°	3290.2	3056.0	2835.2	2645.4	2486.4	2371.5	2318.6	2305.3	2300.9	2309.7	2340.6
47.5°	2844.1	2601.2	2371.5	2137.5	1969.7	1854.9	1806.3	1788.5	1770.9	1788.5	1793.1
50°	2495.3	2243.5	2000.6	1766.5	1589.8	1488.2	1426.4	1399.9	1395.5	1395.5	1404.4
52.5°	2177.2	1943.2	1700.3	1461.9	1276.3	1179.2	1121.8	1108.5	1090.8	1108.5	1108.5
55°	1876.9	1642.9	1404.4	1179.2	1024.5	923.1	870.0	852.4	843.4	856.7	856.7
57.5°	1550.2	1351.3	1130.7	927.4	772.9	702.2	662.4	640.4	635.9	644.8	635.9
60°	1271.9	1104.1	914.2	728.7	609.5	534.4	503.5	494.6	485.7	494.6	494.6
62.5°	1006.9	865.6	710.9	569.7	468.1	415.2	379.7	379.7	375.4	375.4	379.7
65°	746.4	635.9	525.5	406.3	326.8	287.0	260.5	260.5	256.1	260.5	256.1
67.5°	543.2	468.1	379.7	295.9	234.1	212.0	194.3	181.1	190.0	181.1	176.7
70°	397.5	335.6	273.8	225.2	181.1	159.1	145.8	141.2	132.5	132.5	132.5
72.5°	265.0	225.2	185.4	145.8	119.2	97.1	92.7	84.0	75.1	79.4	88.3
75°	176.7	150.1	132.5	106.0	79.4	79.4	53.1	53.1	44.2	53.1	39.8
77.5°	123.6	101.6	79.4	66.2	53.1	48.5	35.3	35.3	30.9	30.9	30.9
80°	88.3	75.1	57.4	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



TEST NUMBER: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	9097.6	9093.1	9102.0	9102.0	9128.5	9124.0	9137.2	9137.2	9128.5	9132.9	9150.5
5°	9128.5	9141.8	9168.1	9190.3	9230.0	9247.8	9269.8	9291.9	9296.3	9309.6	9322.8
7.5°	9128.5	9172.7	9203.6	9243.2	9296.3	9327.2	9375.7	9415.5	9433.2	9455.2	9481.7
10°	9110.7	9154.9	9212.3	9256.5	9322.8	9371.4	9419.9	9481.7	9508.3	9543.5	9579.0
12.5°	9075.4	9124.0	9185.8	9243.2	9318.3	9362.5	9424.3	9481.7	9521.5	9570.1	9609.9
15°	9022.5	9079.8	9137.2	9194.7	9274.1	9327.2	9384.6	9450.8	9490.6	9543.5	9579.0
17.5°	8938.6	9000.4	9053.4	9106.3	9181.4	9243.2	9296.3	9358.1	9397.9	9442.1	9490.6
20°	8836.9	8894.4	8951.8	8996.0	9071.1	9124.0	9181.4	9238.9	9269.8	9278.7	9353.7
22.5°	8709.0	8748.6	8792.8	8863.5	8907.7	8956.2	9009.3	9062.2	9093.1	9141.8	9168.1
25°	8496.8	8536.6	8585.2	8616.1	8669.2	8709.0	8761.9	8819.3	8836.9	8872.4	8898.8
27.5°	8201.1	8223.1	8245.3	8271.6	8302.5	8324.7	8355.6	8382.1	8399.8	8417.4	8435.0
30°	7732.8	7732.8	7732.8	7715.2	7728.5	7741.7	7746.1	7741.7	7741.7	7737.4	7737.4
32.5°	7114.6	7079.3	7039.5	7004.3	6991.0	6973.4	6964.5	6951.2	6929.2	6915.9	6920.3
35°	6279.9	6200.4	6151.9	6107.7	6072.5	6045.9	6032.7	6019.4	6015.0	5997.4	5979.6
37.5°	5237.7	5180.3	5145.0	5118.5	5087.6	5061.1	5065.4	5070.0	5083.1	5074.3	5078.7
40°	4133.6	4120.4	4133.6	4102.7	4093.8	4102.7	4124.7	4155.8	4173.4	4191.1	4222.0
42.5°	3144.4	3166.4	3197.5	3197.5	3210.6	3228.4	3254.7	3303.4	3329.8	3360.7	3396.2
45°	2367.1	2393.7	2433.5	2446.5	2455.5	2477.4	2508.5	2548.2	2565.8	2592.3	2623.2
47.5°	1824.0	1841.6	1863.6	1885.8	1907.8	1916.7	1947.6	1947.6	1969.7	1987.4	1996.1
50°	1422.0	1439.7	1457.3	1470.6	1479.5	1492.8	1501.5	1514.8	1519.1	1528.0	1532.4
52.5°	1112.8	1135.0	1135.0	1143.7	1157.0	1170.3	1165.9	1170.3	1174.6	1174.6	1187.9
55°	870.0	870.0	883.3	883.3	892.2	887.6	892.2	892.2	892.2	892.2	896.5
57.5°	649.1	653.7	666.9	658.0	653.7	662.4	653.7	662.4	658.0	666.9	653.7
60°	499.0	499.0	503.5	503.5	507.9	507.9	507.9	503.5	503.5	499.0	499.0
62.5°	375.4	379.7	384.3	379.7	379.7	379.7	375.4	375.4	371.0	366.5	366.5
65°	251.8	247.4	256.1	247.4	251.8	251.8	247.4	251.8	238.5	242.9	238.5
67.5°	181.1	176.7	172.3	176.7	172.3	167.8	167.8	172.3	176.7	163.4	163.4
70°	119.2	123.6	119.2	123.6	128.2	128.2	123.6	119.2	123.6	114.9	119.2
72.5°	75.1	75.1	75.1	75.1	75.1	79.4	79.4	79.4	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: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	9146.2	9141.8	9146.2	9150.5	9146.2	9141.8	9146.2	9150.5	9132.9	9128.5	9137.2
5°	9340.5	9340.5	9349.2	9353.7	9349.2	9340.5	9340.5	9322.8	9309.6	9296.3	9291.9
7.5°	9508.3	9517.2	9525.9	9530.2	9525.9	9517.2	9508.3	9481.7	9455.2	9433.2	9415.5
10°	9609.9	9623.1	9640.8	9649.5	9640.8	9623.1	9609.9	9579.0	9543.5	9508.3	9481.7
12.5°	9654.0	9667.3	9689.3	9684.9	9689.3	9667.3	9654.0	9609.9	9570.1	9521.5	9481.7
15°	9623.1	9640.8	9662.8	9671.7	9662.8	9640.8	9623.1	9579.0	9543.5	9490.6	9450.8
17.5°	9525.9	9552.4	9565.7	9579.0	9565.7	9552.4	9525.9	9490.6	9442.1	9397.9	9358.1
20°	9393.4	9411.2	9428.8	9433.2	9428.8	9411.2	9393.4	9353.7	9278.7	9269.8	9238.9
22.5°	9203.6	9216.9	9256.5	9243.2	9256.5	9216.9	9203.6	9168.1	9141.8	9093.1	9062.2
25°	8929.7	8942.9	8947.5	8951.8	8947.5	8942.9	8929.7	8898.8	8872.4	8836.9	8819.3
27.5°	8457.2	8457.2	8465.9	8470.5	8465.9	8457.2	8457.2	8435.0	8417.4	8399.8	8382.1
30°	7741.7	7741.7	7741.7	7763.9	7741.7	7741.7	7741.7	7737.4	7737.4	7741.7	7741.7
32.5°	6915.9	6907.0	6898.3	6907.0	6898.3	6907.0	6915.9	6920.3	6915.9	6929.2	6951.2
35°	5979.6	5975.2	5988.5	5970.9	5988.5	5975.2	5979.6	5979.6	5997.4	6015.0	6019.4
37.5°	5083.1	5074.3	5092.0	5074.3	5092.0	5074.3	5083.1	5078.7	5074.3	5083.1	5070.0
40°	4230.9	4239.6	4239.6	4275.1	4239.6	4239.6	4230.9	4222.0	4191.1	4173.4	4155.8
42.5°	3413.8	3440.3	3431.4	3458.0	3431.4	3440.3	3413.8	3396.2	3360.7	3329.8	3303.4
45°	2640.9	2658.7	2658.7	2667.4	2658.7	2658.7	2640.9	2623.2	2592.3	2565.8	2548.2
47.5°	2027.0	2027.0	2027.0	2031.5	2027.0	2027.0	2027.0	1996.1	1987.4	1969.7	1947.6
50°	1541.3	1545.7	1550.2	1554.6	1550.2	1545.7	1541.3	1532.4	1528.0	1519.1	1514.8
52.5°	1183.6	1187.9	1179.2	1187.9	1179.2	1187.9	1183.6	1187.9	1174.6	1174.6	1170.3
55°	896.5	892.2	896.5	900.9	896.5	892.2	896.5	896.5	892.2	892.2	892.2
57.5°	658.0	649.1	649.1	649.1	649.1	649.1	658.0	653.7	666.9	658.0	662.4
60°	490.3	494.6	494.6	499.0	494.6	494.6	490.3	499.0	499.0	503.5	503.5
62.5°	362.1	375.4	366.5	375.4	366.5	375.4	362.1	366.5	366.5	371.0	375.4
65°	234.1	234.1	234.1	238.5	234.1	234.1	234.1	238.5	242.9	238.5	251.8
67.5°	159.1	163.4	172.3	167.8	172.3	163.4	159.1	163.4	163.4	176.7	172.3
70°	128.2	114.9	114.9	128.2	114.9	114.9	128.2	119.2	114.9	123.6	119.2
72.5°	75.1	66.2	75.1	75.1	75.1	66.2	75.1	66.2	70.7	70.7	79.4
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: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	9137.2	9124.0	9128.5	9102.0	9102.0	9093.1	9097.6	9075.4	9066.7	9057.8	9071.1
5°	9269.8	9247.8	9230.0	9190.3	9168.1	9141.8	9128.5	9093.1	9062.2	9035.6	9031.3
7.5°	9375.7	9327.2	9296.3	9243.2	9203.6	9172.7	9128.5	9079.8	9040.2	9004.7	8978.4
10°	9419.9	9371.4	9322.8	9256.5	9212.3	9154.9	9110.7	9048.9	8996.0	8947.5	8916.4
12.5°	9424.3	9362.5	9318.3	9243.2	9185.8	9124.0	9075.4	9004.7	8942.9	8894.4	8845.9
15°	9384.6	9327.2	9274.1	9194.7	9137.2	9079.8	9022.5	8947.5	8890.0	8832.6	8797.3
17.5°	9296.3	9243.2	9181.4	9106.3	9053.4	9000.4	8938.6	8876.8	8810.4	8748.6	8704.4
20°	9181.4	9124.0	9071.1	8996.0	8951.8	8894.4	8836.9	8770.8	8717.7	8655.9	8607.4
22.5°	9009.3	8956.2	8907.7	8863.5	8792.8	8748.6	8709.0	8633.9	8580.8	8523.4	8470.5
25°	8761.9	8709.0	8669.2	8616.1	8585.2	8536.6	8496.8	8430.7	8382.1	8329.1	8284.9
27.5°	8355.6	8324.7	8302.5	8271.6	8245.3	8223.1	8201.1	8148.0	8112.7	8064.2	8020.0
30°	7746.1	7741.7	7728.5	7715.2	7732.8	7732.8	7732.8	7724.1	7693.2	7657.8	7626.9
32.5°	6964.5	6973.4	6991.0	7004.3	7039.5	7079.3	7114.6	7132.2	7132.2	7110.2	7097.0
35°	6032.7	6045.9	6072.5	6107.7	6151.9	6200.4	6279.9	6297.7	6310.8	6310.8	6293.1
37.5°	5065.4	5061.1	5087.6	5118.5	5145.0	5180.3	5237.7	5251.0	5273.0	5264.3	5246.5
40°	4124.7	4102.7	4093.8	4102.7	4133.6	4120.4	4133.6	4124.7	4124.7	4093.8	4093.8
42.5°	3254.7	3228.4	3210.6	3197.5	3197.5	3166.4	3144.4	3122.4	3109.1	3087.0	3082.6
45°	2508.5	2477.4	2455.5	2446.5	2433.5	2393.7	2367.1	2340.6	2309.7	2300.9	2305.3
47.5°	1947.6	1916.7	1907.8	1885.8	1863.6	1841.6	1824.0	1793.1	1788.5	1770.9	1788.5
50°	1501.5	1492.8	1479.5	1470.6	1457.3	1439.7	1422.0	1404.4	1395.5	1395.5	1399.9
52.5°	1165.9	1170.3	1157.0	1143.7	1135.0	1135.0	1112.8	1108.5	1108.5	1090.8	1108.5
55°	892.2	887.6	892.2	883.3	883.3	870.0	870.0	856.7	856.7	843.4	852.4
57.5°	653.7	662.4	653.7	658.0	666.9	653.7	649.1	635.9	644.8	635.9	640.4
60°	507.9	507.9	507.9	503.5	503.5	499.0	499.0	494.6	494.6	485.7	494.6
62.5°	375.4	379.7	379.7	379.7	384.3	379.7	375.4	379.7	375.4	375.4	379.7
65°	247.4	251.8	251.8	247.4	256.1	247.4	251.8	256.1	260.5	256.1	260.5
67.5°	167.8	167.8	172.3	176.7	172.3	176.7	181.1	176.7	181.1	190.0	181.1
70°	123.6	128.2	128.2	123.6	119.2	123.6	119.2	132.5	132.5	132.5	141.2
72.5°	79.4	79.4	75.1	75.1	75.1	75.1	75.1	88.3	79.4	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: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	9035.6	9035.6	9031.3	9022.5	9004.7	9004.7	9000.4	8987.1	8978.4	8973.8	8973.8
5°	8991.5	8973.8	8956.2	8907.7	8907.7	8898.8	8872.4	8854.6	8845.9	8823.7	8815.0
7.5°	8951.8	8898.8	8867.8	8836.9	8797.3	8779.5	8748.6	8735.3	8704.4	8682.4	8669.2
10°	8854.6	8819.3	8779.5	8731.0	8700.1	8664.8	8629.4	8603.0	8563.2	8541.0	8523.4
12.5°	8788.4	8735.3	8700.1	8647.0	8594.1	8563.2	8514.7	8483.8	8443.9	8399.8	8373.2
15°	8726.6	8669.2	8620.6	8563.2	8505.7	8470.5	8413.0	8377.8	8320.3	8276.2	8245.3
17.5°	8633.9	8585.2	8532.3	8461.6	8408.7	8364.5	8302.5	8258.5	8205.5	8148.0	8117.1
20°	8536.6	8479.2	8426.3	8355.6	8302.5	8249.6	8187.8	8139.3	8077.3	8024.4	7989.1
22.5°	8408.7	8342.3	8298.2	8227.4	8165.6	8108.4	8050.9	7993.5	7936.1	7891.9	7852.1
25°	8223.1	8152.4	8103.8	8046.4	7989.1	7945.0	7874.3	7839.0	7781.5	7741.7	7701.9
27.5°	7958.1	7905.2	7861.0	7803.5	7755.0	7719.7	7666.7	7631.4	7582.7	7547.4	7516.5
30°	7569.6	7525.4	7485.6	7428.2	7392.9	7362.0	7313.3	7282.4	7247.1	7207.3	7198.6
32.5°	7048.4	7013.0	6973.4	6933.6	6907.0	6889.4	6849.6	6831.9	6796.7	6774.5	6752.5
35°	6262.2	6231.3	6209.3	6191.7	6182.8	6187.2	6178.4	6196.1	6204.8	6200.4	6204.8
37.5°	5233.4	5215.6	5224.5	5237.7	5281.9	5339.4	5392.3	5471.7	5524.8	5577.9	5626.4
40°	4085.1	4098.4	4133.6	4213.1	4327.9	4456.1	4575.3	4725.5	4875.6	4981.6	5078.7
42.5°	3082.6	3122.4	3210.6	3325.4	3497.8	3687.5	3873.1	4093.8	4275.1	4451.6	4575.3
45°	2318.6	2371.5	2486.4	2645.4	2835.2	3056.0	3290.2	3537.4	3753.9	3934.9	4071.8
47.5°	1806.3	1854.9	1969.7	2137.5	2371.5	2601.2	2844.1	3100.2	3325.4	3502.1	3621.4
50°	1426.4	1488.2	1589.8	1766.5	2000.6	2243.5	2495.3	2746.8	2959.0	3109.1	3215.1
52.5°	1121.8	1179.2	1276.3	1461.9	1700.3	1943.2	2177.2	2424.6	2610.0	2755.8	2826.5
55°	870.0	923.1	1024.5	1179.2	1404.4	1642.9	1876.9	2089.0	2261.1	2367.1	2433.5
57.5°	662.4	702.2	772.9	927.4	1130.7	1351.3	1550.2	1762.2	1894.7	1969.7	2013.7
60°	503.5	534.4	609.5	728.7	914.2	1104.1	1271.9	1431.0	1536.9	1598.7	1642.9
62.5°	379.7	415.2	468.1	569.7	710.9	865.6	1006.9	1126.1	1214.5	1254.3	1285.2
65°	260.5	287.0	326.8	406.3	525.5	635.9	746.4	834.7	892.2	936.3	954.0
67.5°	194.3	212.0	234.1	295.9	379.7	468.1	543.2	605.0	666.9	684.6	715.5
70°	145.8	159.1	181.1	225.2	273.8	335.6	397.5	432.8	477.0	507.9	516.8
72.5°	92.7	97.1	119.2	145.8	185.4	225.2	265.0	295.9	322.5	340.1	348.8
75°	53.1	79.4	79.4	106.0	132.5	150.1	176.7	198.7	212.0	225.2	225.2
77.5°	35.3	48.5	53.1	66.2	79.4	101.6	123.6	136.9	150.1	154.5	154.5
80°	30.9	35.3	35.3	48.5	57.4	75.1	88.3	92.7	101.6	106.0	114.9
82.5°	13.3	17.6	22.0	35.3	39.8	39.8	53.1	57.4	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: P248800

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5	9044.5
2.5°	8965.1	8969.5	8951.8	8947.5	8938.6	8942.9	8951.8
5°	8801.7	8806.0	8788.4	8770.8	8770.8	8766.2	8770.8
7.5°	8647.0	8651.5	8625.0	8616.1	8598.5	8603.0	8603.0
10°	8492.5	8492.5	8452.9	8448.3	8435.0	8430.7	8430.7
12.5°	8342.3	8329.1	8298.2	8280.5	8289.4	8262.9	8262.9
15°	8209.8	8187.8	8148.0	8134.7	8112.7	8103.8	8103.8
17.5°	8072.9	8055.3	8020.0	7993.5	7967.0	7962.6	7967.0
20°	7940.4	7922.8	7878.6	7861.0	7839.0	7839.0	7830.1
22.5°	7807.9	7790.3	7750.6	7737.4	7706.5	7706.5	7710.8
25°	7671.0	7657.8	7613.6	7604.9	7600.5	7582.7	7591.6
27.5°	7485.6	7476.7	7441.4	7428.2	7410.5	7406.2	7414.9
30°	7145.5	7132.2	7105.9	7092.6	7061.7	7066.1	7074.8
32.5°	6721.6	6704.0	6668.5	6655.2	6628.9	6620.0	6624.3
35°	6191.7	6178.4	6147.5	6147.5	6121.0	6112.1	6121.0
37.5°	5652.9	5666.0	5652.9	5666.0	5652.9	5648.4	5652.9
40°	5145.0	5193.6	5202.3	5251.0	5233.4	5259.7	5255.4
42.5°	4659.1	4738.6	4769.7	4809.3	4800.6	4818.2	4831.5
45°	4168.9	4235.2	4266.1	4292.7	4297.0	4306.0	4310.3
47.5°	3705.2	3758.3	3762.6	3793.5	3789.2	3789.2	3802.4
50°	3272.5	3307.8	3316.5	3338.7	3321.1	3312.2	3316.5
52.5°	2870.6	2905.9	2897.0	2905.9	2883.9	2875.0	2879.4
55°	2459.8	2477.4	2477.4	2477.4	2451.1	2451.1	2451.1
57.5°	2040.3	2044.8	2035.9	2040.3	2035.9	2009.4	2005.0
60°	1656.2	1656.2	1651.6	1656.2	1642.9	1629.6	1629.6
62.5°	1293.9	1302.8	1320.4	1302.8	1293.9	1302.8	1289.5
65°	967.2	984.9	980.3	989.2	984.9	984.9	976.0
67.5°	728.7	733.1	737.5	742.0	742.0	742.0	742.0
70°	534.4	547.7	543.2	543.2	543.2	543.2	569.7
72.5°	357.7	375.4	371.0	379.7	379.7	388.6	379.7
75°	242.9	260.5	251.8	265.0	260.5	251.8	273.8
77.5°	163.4	172.3	176.7	181.1	176.7	172.3	176.7
80°	114.9	123.6	119.2	123.6	123.6	123.6	128.2
82.5°	70.7	84.0	79.4	84.0	79.4	84.0	84.0
85°	48.5	53.1	44.2	53.1	48.5	48.5	57.4
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)