

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: P250280

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009727 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

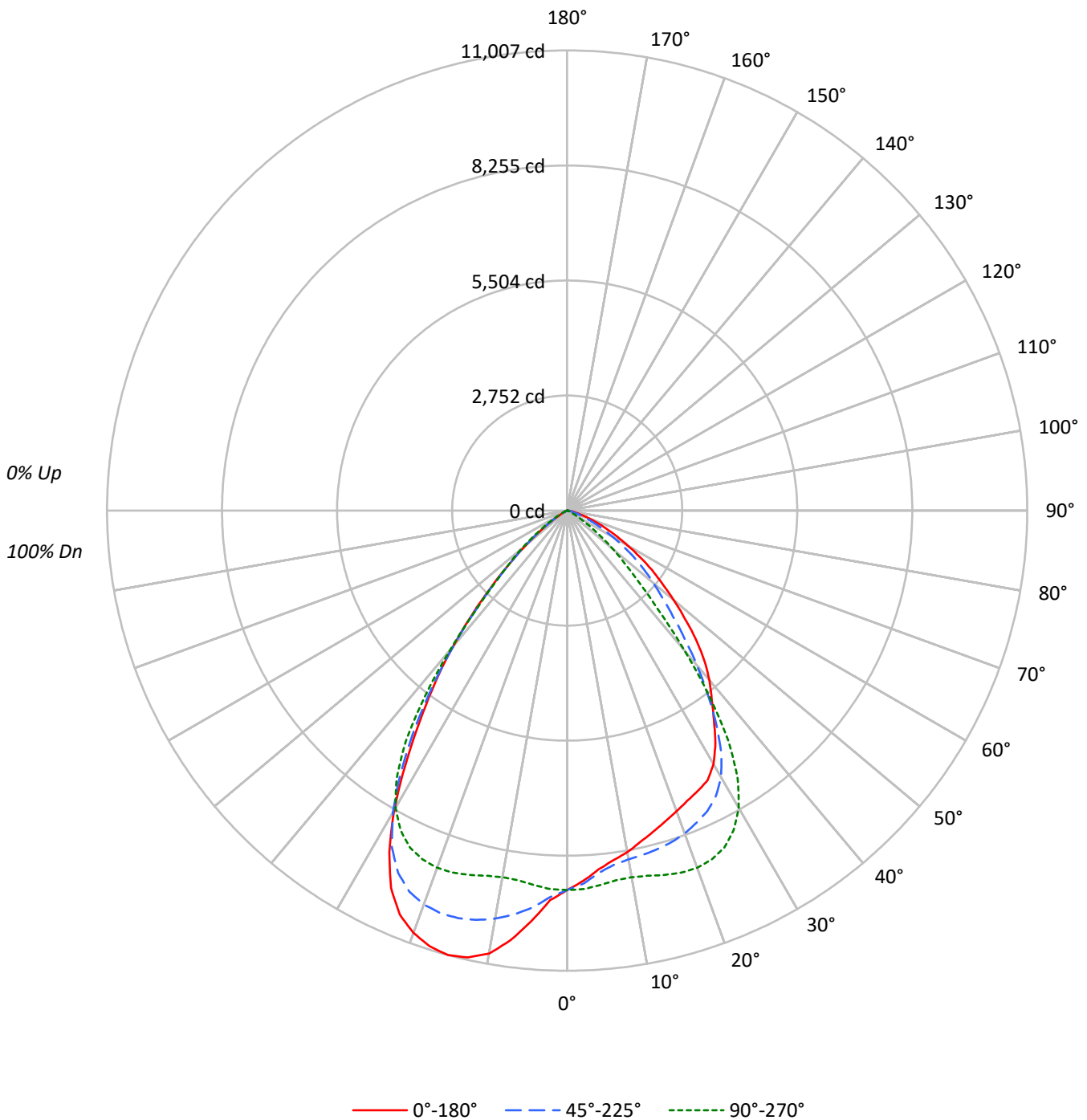
Lumens per Lamp: N/A  
Luminaire Lumens: 15351.0 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82						
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73						
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66						
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60						
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54						
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49						
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45						
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42						
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38						

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	872.6	5.7
10°-20°	2611.6	17.0
20°-30°	3999.5	26.1
30°-40°	3920.8	25.5
40°-50°	2361.1	15.4
50°-60°	1086.7	7.1
60°-70°	381.8	2.5
70°-80°	99.9	0.7
80°-90°	17.0	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°	7483.7	48.8
0°-40°	11404.5	74.3
0°-60°	14852.4	96.8
0°-90°	15351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15351.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9077	9077	9077	9077	9077	
5°	8615	8695	8992	9531	9858	814
15°	7953	8382	9022	10091	11007	2247
25°	7397	7932	8895	9565	9964	3407
35°	6121	6206	6719	6333	6129	3833
45°	4348	3580	2426	2443	2507	3334
55°	2469	1955	696	547	526	2203
65°	1048	725	110	55	59	1067
75°	272	157	9	0	0	329
85°	42	21	4	0	0	58
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°	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1
2.5°	8865.0	8873.5	8873.5	8873.5	8890.4	8894.8	8890.4	8894.8	8903.2	8932.9	8945.6
5°	8614.8	8602.0	8610.6	8606.2	8627.5	8640.3	8631.7	8644.4	8674.1	8695.4	8716.6
7.5°	8436.7	8436.7	8436.7	8445.1	8457.8	8483.3	8479.1	8487.5	8517.2	8546.9	8576.5
10°	8296.7	8292.5	8292.5	8313.6	8330.5	8360.2	8368.8	8394.3	8432.3	8470.6	8504.4
12.5°	8114.2	8118.6	8139.7	8161.0	8199.1	8245.7	8271.2	8305.2	8364.6	8428.1	8466.4
15°	7953.1	7957.3	7974.4	8016.6	8063.4	8118.6	8173.6	8228.7	8300.9	8381.5	8449.4
17.5°	7796.1	7800.3	7813.1	7859.8	7919.2	7991.3	8054.9	8127.0	8220.4	8313.6	8398.4
20°	7651.9	7647.7	7668.8	7711.3	7787.7	7855.5	7919.2	8004.1	8105.8	8220.4	8317.8
22.5°	7511.9	7511.9	7533.2	7575.6	7643.5	7711.3	7779.2	7868.2	7970.0	8080.3	8194.9
25°	7397.4	7393.2	7422.8	7444.1	7494.9	7562.9	7635.0	7707.1	7808.9	7931.9	8042.1
27.5°	7274.4	7270.3	7274.4	7299.9	7346.5	7397.4	7452.5	7516.2	7601.1	7702.9	7808.9
30°	7003.0	7007.1	7007.1	7028.4	7053.9	7108.9	7138.6	7202.3	7278.6	7363.5	7456.9
32.5°	6600.0	6604.2	6604.2	6612.7	6633.9	6659.4	6684.9	6731.5	6790.8	6862.9	6947.8
35°	6120.8	6120.8	6116.4	6120.8	6133.5	6133.5	6154.6	6133.5	6163.2	6205.6	6269.2
37.5°	5679.6	5671.0	5662.6	5654.1	5641.3	5620.2	5590.5	5539.5	5526.8	5509.9	5514.1
40°	5289.4	5285.2	5259.7	5238.4	5196.0	5145.2	5073.0	4984.0	4911.9	4827.0	4754.9
42.5°	4856.7	4852.4	4831.2	4793.0	4746.4	4670.1	4555.6	4436.8	4292.6	4165.4	4033.9
45°	4347.6	4360.4	4330.7	4288.3	4233.1	4161.0	4033.9	3889.5	3745.3	3580.0	3414.4
47.5°	3817.4	3813.2	3792.1	3766.6	3720.0	3647.9	3563.0	3406.1	3253.3	3100.7	2931.0
50°	3325.4	3308.5	3299.9	3274.6	3244.9	3185.6	3096.3	2969.1	2833.4	2689.2	2532.2
52.5°	2858.9	2858.9	2837.6	2820.7	2795.2	2748.6	2672.3	2570.5	2455.9	2320.1	2154.8
55°	2468.7	2460.1	2439.0	2417.7	2392.2	2362.5	2294.8	2210.0	2086.9	1955.4	1811.2
57.5°	2053.0	2048.6	2040.3	2014.8	2002.0	1972.3	1896.0	1811.2	1705.2	1590.7	1471.8
60°	1679.7	1662.8	1645.7	1628.7	1607.6	1577.9	1527.0	1454.9	1365.8	1264.0	1145.3
62.5°	1344.7	1370.0	1319.2	1319.2	1276.8	1251.3	1204.7	1162.2	1068.8	975.6	873.8
65°	1047.7	1047.7	1026.4	1009.5	984.0	954.3	907.7	865.3	797.3	725.2	653.1
67.5°	801.7	797.3	776.2	759.3	738.0	721.1	687.2	636.2	585.4	526.0	466.5
70°	589.6	585.4	581.0	551.4	534.4	513.3	487.8	453.9	415.7	373.3	318.1
72.5°	424.1	424.1	411.5	398.8	381.8	364.7	339.4	318.1	284.2	254.6	216.3
75°	271.5	267.3	267.3	246.0	246.0	220.5	203.6	190.8	173.9	157.0	123.1
77.5°	195.2	190.8	186.6	178.1	169.7	161.1	148.4	131.5	118.7	101.8	89.0
80°	131.5	123.1	118.7	118.7	106.0	101.8	106.0	80.7	76.3	63.6	55.2
82.5°	80.7	80.7	76.3	76.3	72.1	67.9	55.2	55.2	51.0	46.6	38.2
85°	42.4	55.2	38.2	42.4	38.2	42.4	38.2	29.7	25.5	21.1	21.1
87.5°	25.5	16.9	16.9	25.5	21.1	16.9	16.9	16.9	12.7	8.6	8.6
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°	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1
2.5°	8937.2	8966.9	8962.5	9000.8	9013.5	9043.2	9043.2	9064.3	9077.1	9106.8	9132.2
5°	8725.1	8771.7	8784.5	8831.1	8869.3	8915.9	8945.6	8992.2	9034.7	9098.4	9157.7
7.5°	8593.6	8631.7	8657.2	8712.4	8754.8	8805.6	8856.6	8920.1	8979.5	9056.0	9140.8
10°	8529.9	8580.9	8619.0	8674.1	8725.1	8780.3	8831.1	8903.2	8971.1	9068.7	9161.9
12.5°	8513.0	8572.3	8619.0	8695.4	8746.2	8805.6	8865.0	8945.6	9017.7	9119.5	9225.7
15°	8513.0	8593.6	8657.2	8742.0	8801.4	8877.7	8941.4	9021.9	9102.6	9208.5	9310.3
17.5°	8496.0	8593.6	8674.1	8771.7	8848.0	8924.5	9005.0	9081.4	9166.1	9268.1	9382.4
20°	8428.1	8551.2	8648.6	8763.2	8843.8	8928.7	9009.3	9094.0	9183.2	9289.2	9386.8
22.5°	8309.4	8453.6	8564.0	8686.9	8780.3	8865.0	8945.6	9030.5	9128.1	9229.8	9331.6
25°	8152.5	8288.1	8407.0	8534.1	8627.5	8720.7	8797.2	8894.8	8983.8	9081.4	9161.9
27.5°	7914.8	8059.0	8173.6	8305.2	8389.9	8479.1	8542.7	8623.3	8708.2	8788.7	8852.4
30°	7558.7	7690.1	7808.9	7927.6	8012.4	8076.2	8143.9	8207.6	8262.8	8317.8	8373.0
32.5°	7036.8	7155.7	7270.3	7380.4	7448.3	7503.5	7554.3	7592.5	7622.2	7651.9	7656.1
35°	6320.1	6417.6	6489.7	6587.3	6651.0	6701.8	6701.8	6718.7	6714.5	6701.8	6689.0
37.5°	5518.4	5556.5	5586.2	5624.4	5628.6	5628.6	5603.3	5582.0	5548.1	5539.5	5514.1
40°	4682.8	4631.9	4593.6	4542.8	4513.1	4449.4	4394.4	4356.2	4301.0	4292.6	4284.1
42.5°	3889.5	3770.8	3664.8	3575.8	3474.0	3384.8	3304.3	3244.9	3202.5	3198.1	3202.5
45°	3244.9	3109.1	2952.1	2829.2	2714.7	2604.4	2498.4	2426.3	2388.0	2379.5	2388.0
47.5°	2757.1	2600.2	2447.4	2307.4	2184.5	2061.4	1955.4	1857.8	1811.2	1798.4	1794.3
50°	2371.1	2210.0	2048.6	1904.4	1768.8	1645.7	1514.2	1421.0	1361.6	1340.3	1323.4
52.5°	1993.6	1849.4	1683.9	1535.5	1399.7	1255.5	1119.8	1013.7	954.3	929.0	911.9
55°	1662.8	1518.6	1365.8	1221.6	1077.4	933.2	797.3	695.6	632.0	602.3	581.0
57.5°	1327.6	1191.9	1060.5	916.2	797.3	657.5	521.7	432.6	377.5	343.6	326.7
60°	1026.4	920.4	805.9	687.2	572.7	458.1	347.8	262.9	220.5	195.2	173.9
62.5°	776.2	687.2	610.7	508.9	419.9	322.3	237.6	169.7	131.5	110.3	101.8
65°	559.9	492.0	424.1	360.5	297.0	224.9	161.1	110.3	76.3	63.6	59.4
67.5°	398.8	343.6	292.6	250.2	203.6	161.1	114.5	76.3	59.4	51.0	46.6
70°	279.9	237.6	203.6	165.5	135.7	106.0	89.0	55.2	33.9	38.2	29.7
72.5°	186.6	157.0	140.0	114.5	93.2	76.3	55.2	38.2	38.2	29.7	25.5
75°	101.8	93.2	72.1	55.2	46.6	42.4	16.9	8.6	4.2	12.7	4.2
77.5°	72.1	63.6	55.2	46.6	38.2	29.7	16.9	16.9	12.7	16.9	8.6
80°	46.6	38.2	33.9	33.9	21.1	12.7	8.6	8.6	12.7	4.2	4.2
82.5°	29.7	25.5	21.1	21.1	21.1	12.7	12.7	12.7	12.7	8.6	8.6
85°	16.9	12.7	8.6	8.6	4.2	8.6	0.0	4.2	4.2	0.0	0.0
87.5°	8.6	4.2	4.2	4.2	4.2	0.0	0.0	4.2	0.0	4.2	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1	9077.1
2.5°	9149.2	9166.1	9187.4	9204.4	9242.6	9251.0	9268.1	9285.0	9297.8	9310.3	9314.7
5°	9208.5	9272.3	9331.6	9395.2	9475.8	9531.0	9594.6	9649.7	9704.9	9751.5	9785.4
7.5°	9225.7	9323.1	9412.3	9522.5	9641.2	9743.1	9849.1	9955.1	10065.4	10150.3	10222.4
10°	9259.5	9378.2	9492.8	9624.2	9777.0	9912.7	10044.1	10184.2	10324.2	10442.9	10549.0
12.5°	9318.9	9450.4	9573.4	9717.6	9874.6	10027.2	10171.4	10328.4	10476.9	10608.4	10727.1
15°	9416.5	9539.4	9658.3	9793.9	9950.9	10090.9	10235.1	10387.7	10536.3	10672.0	10782.3
17.5°	9480.0	9594.6	9713.3	9836.4	9967.8	10095.1	10230.8	10366.6	10502.3	10625.3	10727.1
20°	9480.0	9590.4	9679.4	9789.8	9912.7	10023.0	10133.3	10252.1	10370.8	10472.6	10570.2
22.5°	9403.7	9509.7	9577.6	9662.5	9768.5	9861.9	9921.2	10052.7	10141.7	10230.8	10302.9
25°	9225.7	9302.0	9357.1	9416.5	9501.3	9564.9	9615.9	9692.2	9781.2	9815.2	9866.0
27.5°	8903.2	8958.4	8988.0	9000.8	9043.2	9077.1	9085.6	9119.5	9157.7	9166.1	9187.4
30°	8394.3	8398.4	8385.7	8381.5	8360.2	8334.9	8330.5	8326.3	8309.4	8292.5	8296.7
32.5°	7626.4	7605.3	7554.3	7499.3	7444.1	7384.8	7350.7	7308.3	7282.8	7257.5	7227.8
35°	6633.9	6583.1	6511.0	6443.0	6379.5	6332.7	6256.4	6230.9	6205.6	6171.6	6163.2
37.5°	5467.4	5437.8	5369.8	5319.0	5285.2	5263.9	5225.6	5200.3	5200.3	5187.6	5179.0
40°	4262.8	4254.4	4228.9	4241.7	4224.7	4233.1	4228.9	4220.4	4241.7	4241.7	4250.2
42.5°	3198.1	3202.5	3215.2	3223.6	3249.1	3253.3	3274.6	3274.6	3287.3	3299.9	3308.5
45°	2379.5	2396.6	2396.6	2413.5	2439.0	2443.2	2451.6	2455.9	2464.3	2485.6	2494.0
47.5°	1785.7	1789.9	1789.9	1794.3	1802.6	1811.2	1807.0	1811.2	1823.9	1815.4	1823.9
50°	1319.2	1323.4	1310.6	1297.9	1310.6	1310.6	1306.5	1293.7	1306.5	1289.5	1297.9
52.5°	899.3	894.9	882.2	886.6	878.0	873.8	873.8	865.3	865.3	865.3	848.3
55°	568.5	568.5	559.9	559.9	555.7	547.2	543.0	538.6	534.4	530.2	530.2
57.5°	318.1	322.3	309.7	305.4	309.7	305.4	297.0	297.0	297.0	284.2	292.6
60°	173.9	169.7	165.5	161.1	157.0	161.1	161.1	152.8	152.8	152.8	157.0
62.5°	93.2	93.2	89.0	89.0	84.9	84.9	93.2	80.7	84.9	80.7	84.9
65°	51.0	63.6	46.6	46.6	59.4	55.2	51.0	51.0	55.2	46.6	51.0
67.5°	55.2	38.2	33.9	38.2	33.9	33.9	33.9	42.4	38.2	29.7	38.2
70°	25.5	29.7	29.7	21.1	33.9	16.9	29.7	16.9	25.5	21.1	25.5
72.5°	25.5	25.5	25.5	16.9	25.5	16.9	21.1	21.1	16.9	16.9	25.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.6	8.6	4.2	4.2	4.2	4.2	8.6	8.6	8.6	0.0	4.2
80°	8.6	8.6	0.0	4.2	0.0	0.0	4.2	0.0	4.2	0.0	8.6
82.5°	4.2	8.6	4.2	4.2	8.6	8.6	8.6	4.2	4.2	4.2	4.2
85°	0.0	4.2	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	4.2
87.5°	0.0	4.2	0.0	0.0	0.0	0.0	4.2	4.2	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: P250280

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9077.1	9077.1	9077.1	9077.1
2.5°	9318.9	9323.1	9331.6	9327.4
5°	9810.9	9844.9	9861.9	9857.7
7.5°	10273.2	10332.7	10366.6	10366.6
10°	10629.5	10697.4	10748.2	10756.8
12.5°	10820.4	10896.8	10964.7	10947.6
15°	10875.5	10952.0	11019.7	11007.0
17.5°	10812.0	10888.3	10939.2	10930.7
20°	10638.1	10701.6	10752.6	10748.2
22.5°	10366.6	10421.8	10464.2	10459.8
25°	9908.5	9946.7	9980.6	9963.6
27.5°	9204.4	9217.1	9238.2	9212.9
30°	8267.0	8275.4	8283.9	8279.7
32.5°	7215.1	7210.7	7202.3	7193.8
35°	6150.4	6150.4	6154.6	6129.1
37.5°	5183.2	5179.0	5191.8	5179.0
40°	4258.6	4254.4	4271.3	4250.2
42.5°	3321.2	3334.0	3338.1	3338.1
45°	2498.4	2502.6	2506.8	2506.8
47.5°	1823.9	1828.1	1849.4	1823.9
50°	1289.5	1293.7	1297.9	1289.5
52.5°	852.5	856.9	852.5	839.8
55°	521.7	526.0	526.0	526.0
57.5°	279.9	284.2	284.2	279.9
60°	152.8	148.4	152.8	144.2
62.5°	80.7	89.0	84.9	76.3
65°	51.0	51.0	51.0	59.4
67.5°	42.4	33.9	38.2	29.7
70°	25.5	29.7	29.7	21.1
72.5°	21.1	21.1	21.1	25.5
75°	0.0	0.0	0.0	0.0
77.5°	8.6	8.6	8.6	4.2
80°	4.2	0.0	4.2	0.0
82.5°	4.2	4.2	8.6	4.2
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)