

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: P#

Luminaire Tested: **LD4C55D010 EX4C559030 4LBSQLWWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C55D010 EX4C559030 4LBSQLWWLI  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

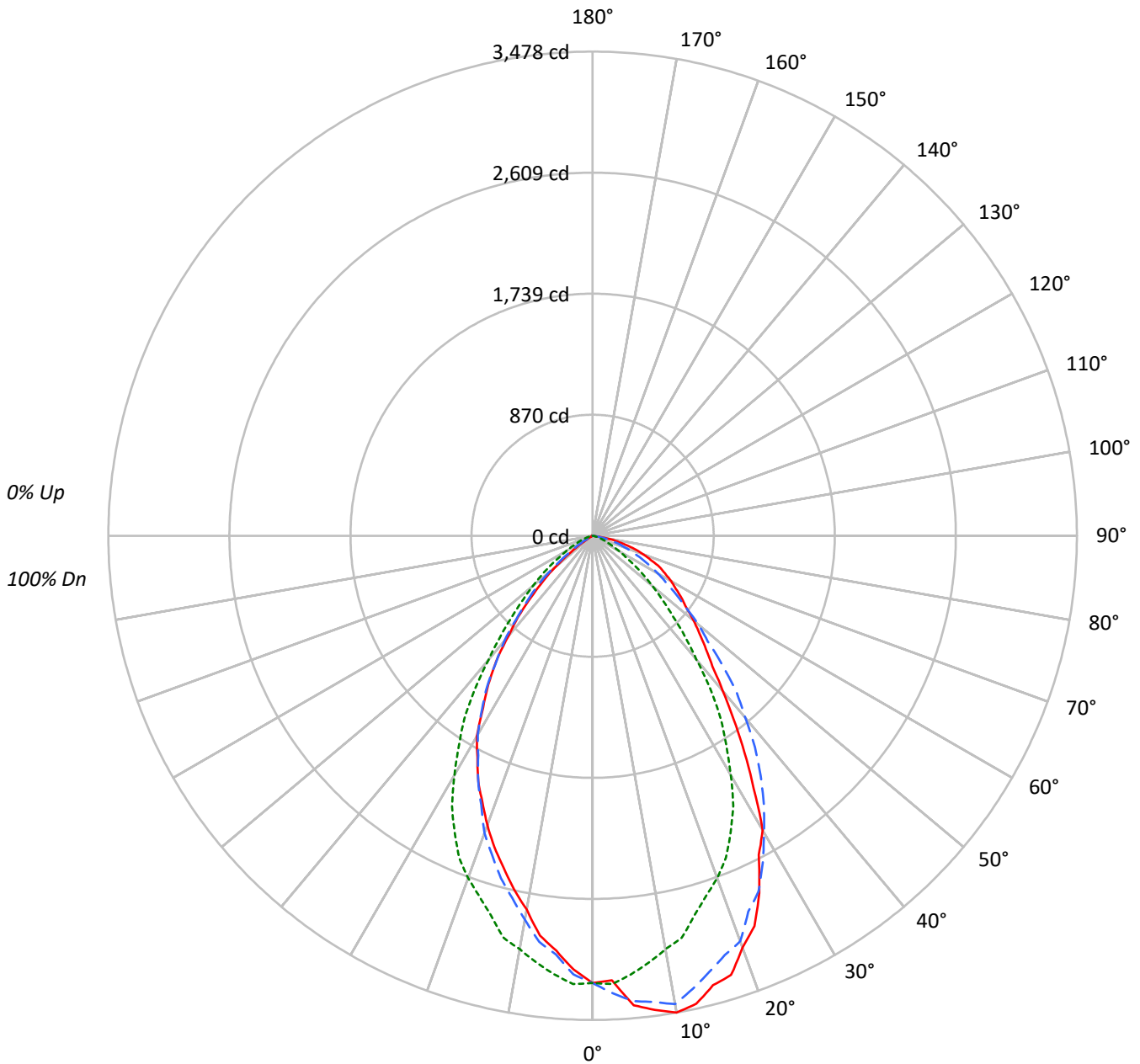
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4604.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
Input Voltage (V):  
Input Current (Ain): 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	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72	72	72	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41	41	41	41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38	38	38	38

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

	0°	90°	180°
0°	309913	309913	309913
5°	327882	306254	289846
10°	340736	295461	267145
15°	333921	281987	246595
20°	323087	268512	226987
25°	301367	249689	207061
30°	272044	220982	185374
35°	224098	189173	153788
40°	182890	146010	118362
45°	157129	110898	85135
50°	142214	84407	53769
55°	130878	60897	19447
60°	125609	41606	2972
65°	121325	28151	890
70°	108642	19551	1100
75°	89026	10066	0
80°	55677	4279	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.9	6.5
10°-20°	810.8	17.6
20°-30°	1082.6	23.5
30°-40°	1027.7	22.3
40°-50°	710.4	15.4
50°-60°	392.5	8.5
60°-70°	194.9	4.2
70°-80°	76.8	1.7
80°-90°	7.3	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°	2194.3	47.7
0°-40°	3222.0	70.0
0°-60°	4325.0	93.9
0°-90°	4604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4604.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3212	3212	3212	3212	3212	
5°	3385	3354	3162	3019	2992	324
15°	3343	3243	2823	2546	2469	946
25°	2831	2819	2345	1945	1945	1290
35°	1902	2103	1606	1321	1306	1192
45°	1152	1321	813	666	624	898
55°	778	732	362	185	116	700
65°	531	385	123	4	4	516
75°	239	146	27	0	0	255
85°	0	4	0	0	0	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3196.5	3285.0	3292.7	3285.0	3296.7	3292.7	3312.0	3292.7	3316.0	3281.3	3289.0
5°	3385.2	3350.5	3423.7	3385.2	3385.2	3381.4	3369.8	3365.9	3381.4	3331.4	3354.4
7.5°	3435.3	3485.4	3550.9	3470.0	3473.8	3473.8	3450.7	3443.0	3443.0	3350.5	3377.5
10°	3477.7	3446.8	3481.5	3450.7	3477.7	3473.8	3489.2	3439.1	3473.8	3419.9	3416.0
12.5°	3443.0	3431.4	3477.7	3427.6	3412.2	3416.0	3396.8	3385.2	3396.8	3335.1	3331.4
15°	3342.8	3354.4	3423.7	3369.8	3362.1	3354.4	3331.4	3292.7	3323.7	3238.9	3242.8
17.5°	3308.3	3289.0	3300.6	3254.3	3265.9	3258.2	3254.3	3219.7	3211.9	3158.0	3158.0
20°	3146.5	3188.8	3188.8	3158.0	3158.0	3154.2	3104.1	3134.9	3100.2	3084.8	3100.2
22.5°	3034.7	3038.6	3038.6	3011.6	3015.6	3000.2	2973.2	2953.8	2973.2	2953.8	2923.1
25°	2830.7	2838.4	2884.6	2834.5	2826.8	2842.2	2819.1	2807.5	2803.7	2757.5	2819.1
27.5°	2584.2	2661.1	2657.4	2638.0	2661.1	2630.4	2618.9	2622.7	2634.3	2630.4	2645.7
30°	2441.7	2453.2	2464.8	2449.4	2453.2	2441.7	2441.7	2445.5	2476.3	2464.8	2460.9
32.5°	2152.8	2191.3	2222.2	2222.2	2226.0	2237.6	2233.7	2314.6	2333.9	2295.4	2287.7
35°	1902.5	1929.5	1956.4	1960.3	2010.4	2014.1	2018.1	2041.2	2095.0	2106.6	2102.7
37.5°	1663.8	1690.6	1698.3	1733.0	1760.1	1786.9	1817.8	1848.6	1894.8	1933.3	1914.1
40°	1452.0	1463.4	1482.7	1498.1	1552.0	1552.0	1567.4	1629.1	1679.2	1710.0	1706.0
42.5°	1274.8	1278.6	1294.0	1321.0	1371.1	1359.5	1371.1	1413.5	1486.5	1490.4	1532.8
45°	1151.5	1147.6	1159.2	1163.0	1193.9	1209.3	1217.0	1247.8	1309.4	1317.1	1321.0
47.5°	1039.9	1036.0	1055.3	1063.0	1074.4	1089.8	1089.8	1093.8	1116.8	1136.2	1120.8
50°	947.4	947.4	947.4	955.1	974.4	970.5	974.4	989.8	1001.3	993.6	989.8
52.5°	847.2	862.6	874.2	878.1	881.9	881.9	885.8	878.1	874.2	862.6	839.5
55°	778.0	793.3	793.3	793.3	793.3	808.7	789.6	793.3	793.3	762.6	731.8
57.5°	708.7	724.1	735.6	720.2	735.6	720.2	712.5	708.7	700.9	670.1	623.9
60°	650.9	658.6	654.7	650.9	658.6	647.0	639.3	623.9	616.2	573.8	543.0
62.5°	585.4	589.2	593.1	585.4	577.7	573.8	558.4	535.3	519.9	485.2	458.2
65°	531.4	519.9	516.0	512.2	504.6	492.9	481.5	454.5	442.8	412.1	385.1
67.5°	450.5	446.8	454.5	442.8	423.7	423.7	412.1	389.0	362.0	342.8	315.8
70°	385.1	381.3	373.6	362.0	358.2	342.8	342.8	315.8	308.1	273.4	250.3
72.5°	315.8	315.8	304.2	292.7	281.1	273.4	269.6	250.3	238.8	219.5	200.2
75°	238.8	238.8	234.9	223.3	215.6	207.9	204.1	188.8	177.1	158.0	146.4
77.5°	169.4	169.4	154.1	146.4	150.1	142.4	134.7	131.0	127.0	115.6	100.2
80°	100.2	96.3	84.8	88.6	84.8	84.8	80.9	77.0	69.3	61.6	53.9
82.5°	27.0	30.8	30.8	30.8	34.7	27.0	27.0	27.0	30.8	30.8	19.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	3.9
87.5°	3.9	7.7	15.4	15.4	15.4	15.4	15.4	11.6	11.6	11.6	7.7
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3250.5	3246.6	3250.5	3223.5	3285.0	3238.9	3231.2	3223.5	3250.5	3223.5	3185.0
5°	3319.7	3281.3	3269.6	3258.2	3292.7	3238.9	3227.4	3231.2	3211.9	3161.9	3165.7
7.5°	3342.8	3308.3	3273.6	3200.4	3231.2	3219.7	3188.8	3165.7	3134.9	3092.5	3084.8
10°	3350.5	3312.0	3261.9	3238.9	3192.7	3177.3	3165.7	3127.2	3088.7	3015.6	2996.2
12.5°	3327.4	3281.3	3219.7	3200.4	3165.7	3115.6	3088.7	3050.1	3015.6	2957.8	2915.4
15°	3227.4	3188.8	3169.6	3104.1	3088.7	3057.8	3003.9	2950.1	2900.0	2822.9	2799.8
17.5°	3111.8	3096.4	3077.1	3027.0	3023.3	2992.5	2942.4	2896.1	2830.7	2711.2	2672.7
20°	2992.5	2992.5	2930.8	2911.6	2950.1	2888.4	2849.9	2807.5	2672.7	2615.0	2545.7
22.5°	2903.9	2861.5	2826.8	2796.0	2799.8	2761.3	2707.5	2622.7	2572.6	2503.3	2422.4
25°	2730.5	2745.9	2669.0	2657.4	2669.0	2580.3	2553.4	2484.0	2410.8	2345.3	2283.8
27.5°	2622.7	2580.3	2530.3	2487.9	2487.9	2453.2	2376.3	2360.9	2249.1	2187.5	2110.4
30°	2460.9	2430.1	2387.7	2326.2	2318.5	2291.5	2229.9	2191.3	2075.9	1983.4	1941.0
32.5°	2256.8	2245.3	2210.6	2141.3	2118.3	2087.3	2010.4	1944.9	1891.0	1786.9	1737.0
35°	2110.4	2068.2	1995.0	1937.2	1917.9	1864.0	1802.3	1756.1	1698.3	1606.0	1540.5
37.5°	1891.0	1848.6	1779.2	1710.0	1710.0	1656.1	1571.3	1525.1	1444.3	1390.2	1336.4
40°	1698.3	1644.5	1575.2	1494.3	1482.7	1405.6	1371.1	1294.0	1243.9	1159.2	1151.5
42.5°	1482.7	1432.6	1371.1	1309.4	1263.2	1224.7	1136.2	1078.4	1024.5	982.1	970.5
45°	1286.3	1220.8	1166.9	1089.8	1043.7	997.5	939.7	901.2	858.8	812.7	785.7
47.5°	1116.8	1063.0	985.9	916.6	870.4	847.2	781.7	739.5	704.8	674.0	654.7
50°	943.6	878.1	835.7	758.6	750.9	697.1	643.2	608.5	589.2	562.3	535.3
52.5°	812.7	750.9	693.2	635.5	604.6	585.4	535.3	500.6	473.8	454.5	439.1
55°	685.5	631.6	585.4	527.6	508.3	481.5	423.7	416.0	389.0	362.0	342.8
57.5°	589.2	539.1	485.2	446.8	412.1	392.9	346.6	315.8	300.4	277.3	258.0
60°	500.6	446.8	404.4	358.2	342.8	315.8	281.1	254.2	234.9	215.6	196.5
62.5°	419.8	373.6	327.4	288.8	265.7	250.3	223.3	200.2	181.1	165.7	150.1
65°	346.6	304.2	265.7	227.2	215.6	196.5	177.1	158.0	142.4	123.3	107.9
67.5°	285.0	246.5	207.9	181.1	169.4	161.7	138.7	119.3	107.9	96.3	80.9
70°	223.3	196.5	165.7	142.4	131.0	119.3	104.0	92.5	77.0	69.3	57.8
72.5°	173.4	150.1	123.3	104.0	96.3	88.6	73.2	61.6	53.9	46.2	38.5
75°	123.3	104.0	88.6	69.3	65.5	61.6	50.1	42.4	34.7	27.0	23.1
77.5°	84.8	69.3	53.9	46.2	42.4	34.7	30.8	23.1	19.3	15.4	11.6
80°	46.2	34.7	27.0	23.1	19.3	15.4	15.4	11.6	7.7	7.7	3.9
82.5°	15.4	11.6	7.7	3.9	3.9	3.9	3.9	3.9	3.9	0.0	3.9
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°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3208.1	3165.7	3177.3	3177.3	3169.6	3169.6	3161.9	3150.3	3154.2	3131.0	3081.0
5°	3173.4	3119.5	3111.8	3119.5	3088.7	3081.0	3065.6	3088.7	3019.3	3046.3	3015.6
7.5°	3073.3	3023.3	3011.6	3038.6	3000.2	2976.9	2973.2	3003.9	2942.4	2911.6	2876.9
10°	2961.5	2942.4	2907.7	2888.4	2876.9	2880.7	2849.9	2811.4	2799.8	2792.1	2761.3
12.5°	2861.5	2819.1	2788.3	2765.2	2757.5	2757.5	2707.5	2699.8	2665.1	2657.4	2611.2
15°	2742.0	2692.1	2672.7	2642.0	2615.0	2630.4	2572.6	2557.2	2545.7	2495.6	2503.3
17.5°	2638.0	2584.2	2538.0	2518.7	2495.6	2472.5	2418.5	2430.1	2403.1	2403.1	2333.9
20°	2503.3	2445.5	2410.8	2372.3	2372.3	2341.6	2303.1	2306.9	2272.2	2237.6	2175.9
22.5°	2360.9	2299.2	2256.8	2241.4	2202.9	2195.2	2149.0	2137.4	2091.2	2095.0	2041.2
25°	2210.6	2149.0	2091.2	2095.0	2060.5	2045.1	2018.1	1964.2	1944.9	1921.8	1906.4
27.5°	2033.5	1991.1	1941.0	1937.2	1871.7	1875.5	1840.9	1825.5	1779.2	1790.8	1756.1
30°	1871.7	1810.1	1763.8	1752.4	1725.4	1717.7	1663.8	1640.6	1648.4	1617.5	1598.3
32.5°	1706.0	1613.7	1594.4	1571.3	1555.9	1536.6	1498.1	1513.5	1478.8	1486.5	1455.7
35°	1486.5	1448.0	1397.9	1397.9	1382.5	1367.2	1340.3	1355.7	1321.0	1305.6	1274.8
37.5°	1301.7	1267.1	1217.0	1232.4	1205.4	1182.3	1159.2	1163.0	1132.2	1128.5	1097.5
40°	1101.4	1082.1	1047.6	1047.6	1028.3	1028.3	1016.7	1005.2	985.9	962.8	928.1
42.5°	912.7	897.3	881.9	885.8	858.8	881.9	851.1	870.4	808.7	805.0	781.7
45°	774.0	739.5	743.3	727.9	712.5	720.2	693.2	700.9	666.3	658.6	635.5
47.5°	627.8	616.2	593.1	585.4	585.4	573.8	562.3	558.4	543.0	523.7	492.9
50°	516.0	473.8	465.9	454.5	446.8	446.8	431.4	408.3	412.1	392.9	362.0
52.5°	404.4	369.7	354.3	350.5	335.1	327.4	308.1	292.7	281.1	273.4	254.2
55°	311.9	281.1	261.9	261.9	238.8	238.8	211.8	200.2	184.8	169.4	158.0
57.5°	234.9	219.5	200.2	184.8	177.1	158.0	142.4	123.3	111.7	88.6	73.2
60°	177.1	161.7	142.4	131.0	123.3	104.0	84.8	69.3	42.4	34.7	30.8
62.5°	131.0	115.6	96.3	88.6	80.9	65.5	46.2	23.1	11.6	11.6	11.6
65°	96.3	77.0	61.6	53.9	46.2	34.7	15.4	7.7	3.9	3.9	3.9
67.5°	65.5	50.1	34.7	30.8	23.1	11.6	3.9	3.9	3.9	3.9	3.9
70°	42.4	30.8	15.4	11.6	7.7	3.9	3.9	3.9	3.9	3.9	3.9
72.5°	27.0	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	3.9	3.9	3.9
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: P#

CATALOG NUMBER: LD4C55D010 EX4C559030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3134.9	3107.9	3123.3	3088.7	3104.1	3131.0	3111.8	3119.5
5°	3027.0	3011.6	2992.5	2942.4	2980.9	3011.6	2996.2	2992.5
7.5°	2911.6	2857.6	2884.6	2869.2	2861.5	2892.3	2857.6	2896.1
10°	2792.1	2753.6	2749.9	2722.8	2722.8	2745.9	2749.9	2726.6
12.5°	2615.0	2595.8	2595.8	2591.9	2588.0	2611.2	2615.0	2603.5
15°	2487.9	2480.2	2460.9	2457.1	2434.1	2468.6	2472.5	2468.6
17.5°	2333.9	2337.6	2318.5	2318.5	2333.9	2345.3	2314.6	2345.3
20°	2229.9	2210.6	2202.9	2168.2	2187.5	2206.8	2206.8	2210.6
22.5°	2079.6	2048.8	2060.5	2041.2	2029.5	2056.5	2056.5	2068.2
25°	1910.2	1910.2	1917.9	1906.4	1914.1	1929.5	1917.9	1944.9
27.5°	1748.4	1763.8	1763.8	1748.4	1756.1	1802.3	1821.6	1790.8
30°	1598.3	1602.1	1613.7	1606.0	1629.1	1644.5	1640.6	1663.8
32.5°	1428.9	1448.0	1455.7	1444.3	1452.0	1486.5	1467.3	1463.4
35°	1297.9	1263.2	1259.4	1263.2	1278.6	1286.3	1278.6	1305.6
37.5°	1109.1	1097.5	1082.1	1086.1	1097.5	1113.1	1120.8	1139.9
40°	928.1	912.7	912.7	908.9	897.3	939.7	939.7	939.7
42.5°	770.3	766.3	747.2	747.2	762.6	774.0	766.3	793.3
45°	631.6	616.2	604.6	604.6	616.2	616.2	627.8	623.9
47.5°	496.9	481.5	485.2	473.8	485.2	500.6	481.5	485.2
50°	373.6	373.6	365.9	373.6	369.7	373.6	365.9	358.2
52.5°	254.2	288.8	292.7	277.3	242.6	211.8	192.5	207.9
55°	146.4	131.0	131.0	127.0	119.3	115.6	104.0	115.6
57.5°	73.2	65.5	65.5	65.5	61.6	57.8	50.1	50.1
60°	30.8	27.0	27.0	23.1	19.3	15.4	11.6	15.4
62.5°	11.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)