

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: **LD4C60D010 EX4C609030 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: LD4C60D010 EX4C609030 4LBSQLWWLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

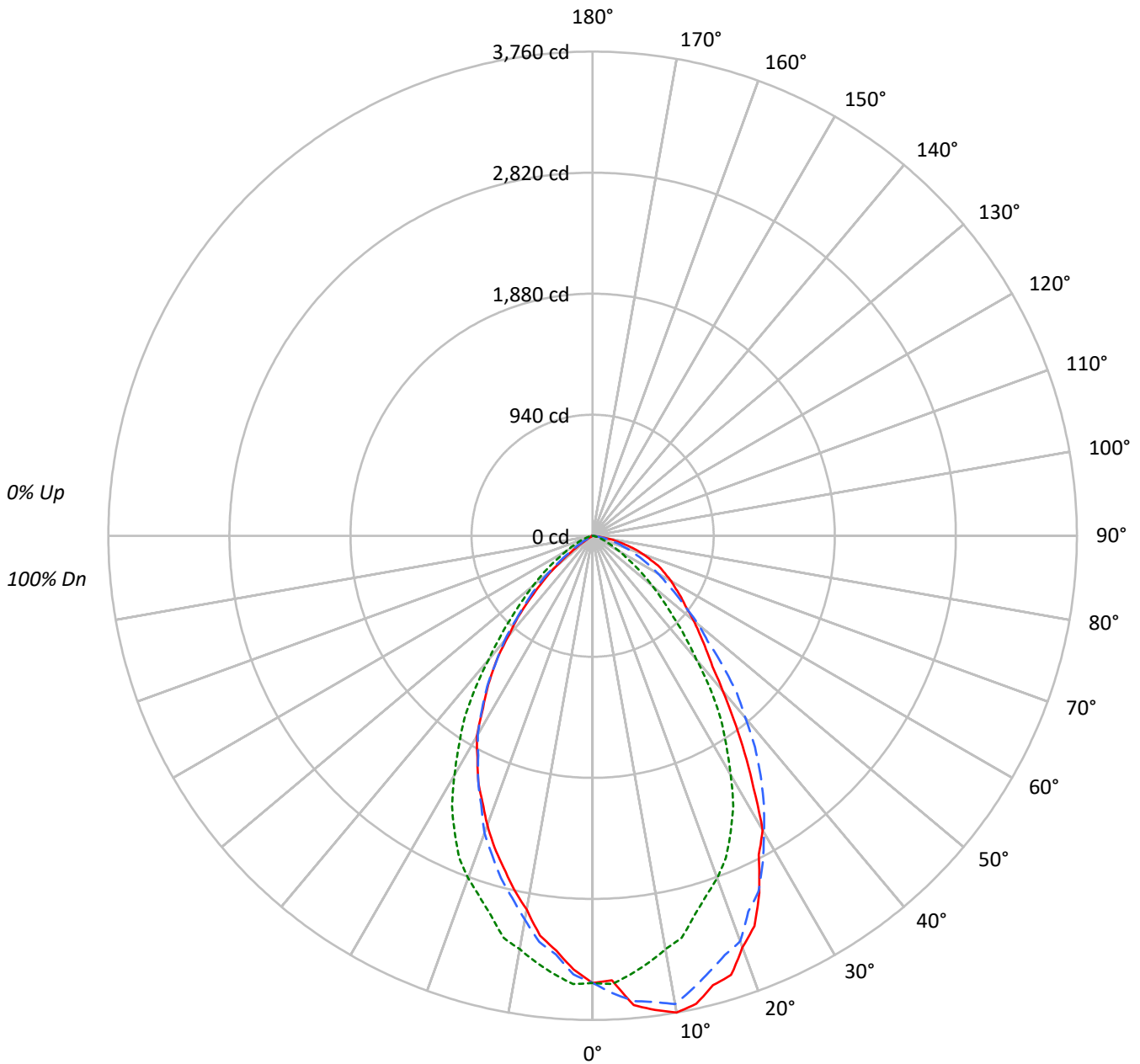
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4977.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 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): 72  
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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CATALOG NUMBER: LD4C60D010 EX4C609030 4LBSQLWWLI

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53																			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48																			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41																			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																			

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

	0°	90°	180°
0°	335019	335019	335019
5°	354450	331069	313324
10°	368346	319396	288788
15°	360972	304832	266574
20°	349260	290260	245378
25°	325790	269917	223840
30°	294093	238875	200392
35°	242249	204497	166250
40°	197703	157850	127947
45°	169860	119877	92026
50°	153743	91252	58123
55°	141476	65826	21011
60°	135779	44983	3203
65°	131165	30434	959
70°	117444	21130	1185
75°	96258	10886	0
80°	60178	4612	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.3	6.5
10°-20°	876.4	17.6
20°-30°	1170.3	23.5
30°-40°	1111.0	22.3
40°-50°	768.0	15.4
50°-60°	424.3	8.5
60°-70°	210.7	4.2
70°-80°	83.0	1.7
80°-90°	7.9	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°	2372.1	47.7
0°-40°	3483.1	70.0
0°-60°	4675.4	93.9
0°-90°	4977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4977.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3472	3472	3472	3472	3472	
5°	3660	3626	3418	3264	3235	350
15°	3614	3506	3052	2752	2669	1022
25°	3060	3048	2535	2102	2102	1395
35°	2057	2273	1736	1428	1411	1288
45°	1245	1428	878	720	674	971
55°	841	791	391	200	125	757
65°	574	416	133	4	4	558
75°	258	158	29	0	0	275
85°	0	4	0	0	0	24
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°	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1
2.5°	3455.4	3551.2	3559.5	3551.2	3563.7	3559.5	3580.4	3559.5	3584.6	3547.1	3555.4
5°	3659.5	3622.0	3701.1	3659.5	3659.5	3655.4	3642.8	3638.6	3655.4	3601.3	3626.2
7.5°	3713.6	3767.8	3838.6	3751.1	3755.2	3755.2	3730.3	3721.9	3721.9	3622.0	3651.2
10°	3759.5	3726.0	3763.5	3730.3	3759.5	3755.2	3771.9	3717.7	3755.2	3697.0	3692.8
12.5°	3721.9	3709.4	3759.5	3705.3	3688.7	3692.8	3672.0	3659.5	3672.0	3605.3	3601.3
15°	3613.6	3626.2	3701.1	3642.8	3634.5	3626.2	3601.3	3559.5	3592.9	3501.3	3505.5
17.5°	3576.3	3555.4	3568.0	3517.9	3530.5	3522.1	3517.9	3480.6	3472.1	3413.8	3413.8
20°	3401.4	3447.1	3447.1	3413.8	3413.8	3409.8	3355.6	3388.9	3351.4	3334.7	3351.4
22.5°	3280.6	3284.8	3284.8	3255.6	3259.9	3243.2	3214.0	3193.2	3214.0	3193.2	3159.9
25°	3060.1	3068.4	3118.3	3064.1	3055.8	3072.5	3047.5	3034.9	3030.9	2981.0	3047.5
27.5°	2793.5	2876.7	2872.6	2851.8	2876.7	2843.5	2831.1	2835.1	2847.7	2843.5	2860.1
30°	2639.6	2652.0	2664.5	2647.9	2652.0	2639.6	2639.6	2643.6	2676.9	2664.5	2660.3
32.5°	2327.2	2368.8	2402.2	2402.2	2406.3	2418.9	2414.6	2502.1	2522.9	2481.4	2473.0
35°	2056.6	2085.8	2114.9	2119.1	2173.2	2177.3	2181.6	2206.5	2264.7	2277.3	2273.1
37.5°	1798.6	1827.6	1835.9	1873.5	1902.6	1931.7	1965.1	1998.4	2048.3	2089.9	2069.2
40°	1569.6	1582.0	1602.9	1619.5	1677.7	1677.7	1694.4	1761.1	1815.2	1848.5	1844.3
42.5°	1378.1	1382.2	1398.8	1428.0	1482.2	1469.6	1482.2	1528.0	1606.9	1611.2	1657.0
45°	1244.8	1240.6	1253.2	1257.2	1290.7	1307.3	1315.6	1348.9	1415.4	1423.8	1428.0
47.5°	1124.1	1119.9	1140.8	1149.1	1161.5	1178.1	1178.1	1182.4	1207.3	1228.2	1211.6
50°	1024.2	1024.2	1024.2	1032.5	1053.3	1049.1	1053.3	1070.0	1082.4	1074.1	1070.0
52.5°	915.8	932.5	945.0	949.3	953.4	953.4	957.6	949.3	945.0	932.5	907.5
55°	841.0	857.6	857.6	857.6	857.6	874.3	853.5	857.6	857.6	824.3	791.1
57.5°	766.1	782.8	795.1	778.5	795.1	778.5	770.2	766.1	757.6	724.4	674.4
60°	703.6	712.0	707.7	703.6	712.0	699.4	691.1	674.4	666.1	620.3	587.0
62.5°	632.9	636.9	641.2	632.9	624.5	620.3	603.7	578.7	562.1	524.6	495.4
65°	574.5	562.1	557.8	553.7	545.4	532.9	520.5	491.3	478.7	445.4	416.3
67.5°	487.0	483.0	491.3	478.7	458.0	458.0	445.4	420.5	391.3	370.6	341.4
70°	416.3	412.2	403.9	391.3	387.2	370.6	370.6	341.4	333.1	295.6	270.6
72.5°	341.4	341.4	328.8	316.4	303.9	295.6	291.5	270.6	258.2	237.3	216.4
75°	258.2	258.2	254.0	241.4	233.1	224.8	220.7	204.0	191.5	170.8	158.2
77.5°	183.2	183.2	166.5	158.2	162.3	154.0	145.7	141.6	137.3	124.9	108.3
80°	108.3	104.1	91.7	95.7	91.7	91.7	87.4	83.2	74.9	66.5	58.2
82.5°	29.2	33.3	33.3	33.3	37.5	29.2	29.2	29.2	33.3	33.3	20.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	4.2
87.5°	4.2	8.3	16.6	16.6	16.6	16.6	16.6	12.6	12.6	12.6	8.3
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°	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1
2.5°	3513.8	3509.6	3513.8	3484.6	3551.2	3501.3	3492.9	3484.6	3513.8	3484.6	3443.0
5°	3588.7	3547.1	3534.5	3522.1	3559.5	3501.3	3488.9	3492.9	3472.1	3418.1	3422.2
7.5°	3613.6	3576.3	3538.8	3459.7	3492.9	3480.6	3447.1	3422.2	3388.9	3343.1	3334.7
10°	3622.0	3580.4	3526.2	3501.3	3451.4	3434.7	3422.2	3380.6	3339.0	3259.9	3239.0
12.5°	3597.0	3547.1	3480.6	3459.7	3422.2	3368.0	3339.0	3297.2	3259.9	3197.4	3151.6
15°	3488.9	3447.1	3426.4	3355.6	3339.0	3305.5	3247.3	3189.1	3134.9	3051.6	3026.6
17.5°	3363.9	3347.3	3326.4	3272.3	3268.2	3234.9	3180.8	3130.7	3060.1	2930.9	2889.3
20°	3234.9	3234.9	3168.2	3147.5	3189.1	3122.4	3080.8	3034.9	2889.3	2826.8	2751.9
22.5°	3139.2	3093.3	3055.8	3022.5	3026.6	2985.0	2926.8	2835.1	2781.0	2706.1	2618.7
25°	2951.8	2968.4	2885.2	2872.6	2885.2	2789.3	2760.3	2685.2	2606.1	2535.3	2468.8
27.5°	2835.1	2789.3	2735.3	2689.5	2689.5	2652.0	2568.8	2552.1	2431.3	2364.7	2281.4
30°	2660.3	2627.0	2581.2	2514.6	2506.3	2477.1	2410.6	2368.8	2244.0	2144.0	2098.2
32.5°	2439.6	2427.2	2389.7	2314.8	2289.9	2256.4	2173.2	2102.5	2044.2	1931.7	1877.7
35°	2281.4	2235.7	2156.6	2094.1	2073.3	2015.0	1948.3	1898.4	1835.9	1736.1	1665.3
37.5°	2044.2	1998.4	1923.4	1848.5	1848.5	1790.3	1698.6	1648.7	1561.3	1502.9	1444.6
40°	1835.9	1777.7	1702.8	1615.4	1602.9	1519.5	1482.2	1398.8	1344.7	1253.2	1244.8
42.5°	1602.9	1548.7	1482.2	1415.4	1365.5	1323.9	1228.2	1165.7	1107.5	1061.7	1049.1
45°	1390.5	1319.7	1261.5	1178.1	1128.2	1078.3	1015.8	974.2	928.4	878.5	849.3
47.5°	1207.3	1149.1	1065.7	990.9	941.0	915.8	845.1	799.4	761.9	728.6	707.7
50°	1020.1	949.3	903.5	820.1	811.8	753.6	695.3	657.8	636.9	607.9	578.7
52.5°	878.5	811.8	749.3	687.0	653.6	632.9	578.7	541.2	512.2	491.3	474.6
55°	741.0	682.8	632.9	570.4	549.5	520.5	458.0	449.7	420.5	391.3	370.6
57.5°	636.9	582.8	524.6	483.0	445.4	424.7	374.7	341.4	324.7	299.8	278.9
60°	541.2	483.0	437.1	387.2	370.6	341.4	303.9	274.8	254.0	233.1	212.4
62.5°	453.8	403.9	353.9	312.2	287.2	270.6	241.4	216.4	195.7	179.1	162.3
65°	374.7	328.8	287.2	245.6	233.1	212.4	191.5	170.8	154.0	133.3	116.6
67.5°	308.1	266.5	224.8	195.7	183.2	174.9	149.9	129.0	116.6	104.1	87.4
70°	241.4	212.4	179.1	154.0	141.6	129.0	112.4	100.0	83.2	74.9	62.5
72.5°	187.4	162.3	133.3	112.4	104.1	95.7	79.1	66.5	58.2	49.9	41.6
75°	133.3	112.4	95.7	74.9	70.8	66.5	54.2	45.8	37.5	29.2	25.0
77.5°	91.7	74.9	58.2	49.9	45.8	37.5	33.3	25.0	20.9	16.6	12.6
80°	49.9	37.5	29.2	25.0	20.9	16.6	16.6	12.6	8.3	8.3	4.2
82.5°	16.6	12.6	8.3	4.2	4.2	4.2	4.2	4.2	4.2	0.0	4.2
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°	4.2	4.2	4.2	4.2	4.2	4.2	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1
2.5°	3468.0	3422.2	3434.7	3434.7	3426.4	3426.4	3418.1	3405.5	3409.8	3384.6	3330.7
5°	3430.5	3372.2	3363.9	3372.2	3339.0	3330.7	3314.0	3339.0	3263.9	3293.1	3259.9
7.5°	3322.3	3268.2	3255.6	3284.8	3243.2	3218.1	3214.0	3247.3	3180.8	3147.5	3110.0
10°	3201.5	3180.8	3143.2	3122.4	3110.0	3114.0	3080.8	3039.2	3026.6	3018.3	2985.0
12.5°	3093.3	3047.5	3014.2	2989.3	2981.0	2981.0	2926.8	2918.5	2881.0	2872.6	2822.7
15°	2964.2	2910.2	2889.3	2856.0	2826.8	2843.5	2781.0	2764.3	2751.9	2697.8	2706.1
17.5°	2851.8	2793.5	2743.6	2722.8	2697.8	2672.8	2614.4	2627.0	2597.8	2597.8	2522.9
20°	2706.1	2643.6	2606.1	2564.5	2564.5	2531.3	2489.7	2493.8	2456.2	2418.9	2352.2
22.5°	2552.1	2485.4	2439.6	2423.0	2381.4	2373.1	2323.1	2310.6	2260.7	2264.7	2206.5
25°	2389.7	2323.1	2260.7	2264.7	2227.4	2210.8	2181.6	2123.3	2102.5	2077.5	2060.9
27.5°	2198.2	2152.4	2098.2	2094.1	2023.3	2027.4	1990.1	1973.4	1923.4	1935.9	1898.4
30°	2023.3	1956.8	1906.7	1894.3	1865.1	1856.8	1798.6	1773.5	1781.9	1748.5	1727.8
32.5°	1844.3	1744.4	1723.6	1698.6	1682.0	1661.1	1619.5	1636.1	1598.6	1606.9	1573.7
35°	1606.9	1565.3	1511.2	1511.2	1494.6	1477.9	1448.9	1465.5	1428.0	1411.4	1378.1
37.5°	1407.1	1369.8	1315.6	1332.3	1303.1	1278.1	1253.2	1257.2	1224.0	1219.9	1186.4
40°	1190.7	1169.8	1132.5	1132.5	1111.6	1111.6	1099.0	1086.6	1065.7	1040.8	1003.3
42.5°	986.6	970.0	953.4	957.6	928.4	953.4	920.1	941.0	874.3	870.2	845.1
45°	836.7	799.4	803.5	786.8	770.2	778.5	749.3	757.6	720.3	712.0	687.0
47.5°	678.7	666.1	641.2	632.9	632.9	620.3	607.9	603.7	587.0	566.1	532.9
50°	557.8	512.2	503.7	491.3	483.0	483.0	466.3	441.4	445.4	424.7	391.3
52.5°	437.1	399.6	383.0	378.9	362.3	353.9	333.1	316.4	303.9	295.6	274.8
55°	337.1	303.9	283.2	283.2	258.2	258.2	229.0	216.4	199.8	183.2	170.8
57.5°	254.0	237.3	216.4	199.8	191.5	170.8	154.0	133.3	120.7	95.7	79.1
60°	191.5	174.9	154.0	141.6	133.3	112.4	91.7	74.9	45.8	37.5	33.3
62.5°	141.6	124.9	104.1	95.7	87.4	70.8	49.9	25.0	12.6	12.6	12.6
65°	104.1	83.2	66.5	58.2	49.9	37.5	16.6	8.3	4.2	4.2	4.2
67.5°	70.8	54.2	37.5	33.3	25.0	12.6	4.2	4.2	4.2	4.2	4.2
70°	45.8	33.3	16.6	12.6	8.3	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	29.2	16.6	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.2	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	4.2	4.2	4.2
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: LD4C60D010 EX4C609030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1	3472.1
2.5°	3388.9	3359.7	3376.3	3339.0	3355.6	3384.6	3363.9	3372.2
5°	3272.3	3255.6	3234.9	3180.8	3222.4	3255.6	3239.0	3234.9
7.5°	3147.5	3089.1	3118.3	3101.7	3093.3	3126.6	3089.1	3130.7
10°	3018.3	2976.7	2972.6	2943.4	2943.4	2968.4	2972.6	2947.5
12.5°	2826.8	2806.1	2806.1	2801.9	2797.6	2822.7	2826.8	2814.4
15°	2689.5	2681.2	2660.3	2656.2	2631.2	2668.6	2672.8	2668.6
17.5°	2522.9	2527.0	2506.3	2506.3	2522.9	2535.3	2502.1	2535.3
20°	2410.6	2389.7	2381.4	2343.9	2364.7	2385.6	2385.6	2389.7
22.5°	2248.1	2214.8	2227.4	2206.5	2194.0	2223.2	2223.2	2235.7
25°	2064.9	2064.9	2073.3	2060.9	2069.2	2085.8	2073.3	2102.5
27.5°	1890.1	1906.7	1906.7	1890.1	1898.4	1948.3	1969.2	1935.9
30°	1727.8	1731.9	1744.4	1736.1	1761.1	1777.7	1773.5	1798.6
32.5°	1544.6	1565.3	1573.7	1561.3	1569.6	1606.9	1586.2	1582.0
35°	1403.1	1365.5	1361.5	1365.5	1382.2	1390.5	1382.2	1411.4
37.5°	1199.0	1186.4	1169.8	1174.0	1186.4	1203.2	1211.6	1232.3
40°	1003.3	986.6	986.6	982.6	970.0	1015.8	1015.8	1015.8
42.5°	832.7	828.4	807.7	807.7	824.3	836.7	828.4	857.6
45°	682.8	666.1	653.6	653.6	666.1	666.1	678.7	674.4
47.5°	537.1	520.5	524.6	512.2	524.6	541.2	520.5	524.6
50°	403.9	403.9	395.5	403.9	399.6	403.9	395.5	387.2
52.5°	274.8	312.2	316.4	299.8	262.3	229.0	208.1	224.8
55°	158.2	141.6	141.6	137.3	129.0	124.9	112.4	124.9
57.5°	79.1	70.8	70.8	70.8	66.5	62.5	54.2	54.2
60°	33.3	29.2	29.2	25.0	20.9	16.6	12.6	16.6
62.5°	12.6	8.3	8.3	8.3	8.3	8.3	8.3	8.3
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)