

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 EX4C609035 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 EX4C609035 4LBSQLWWLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

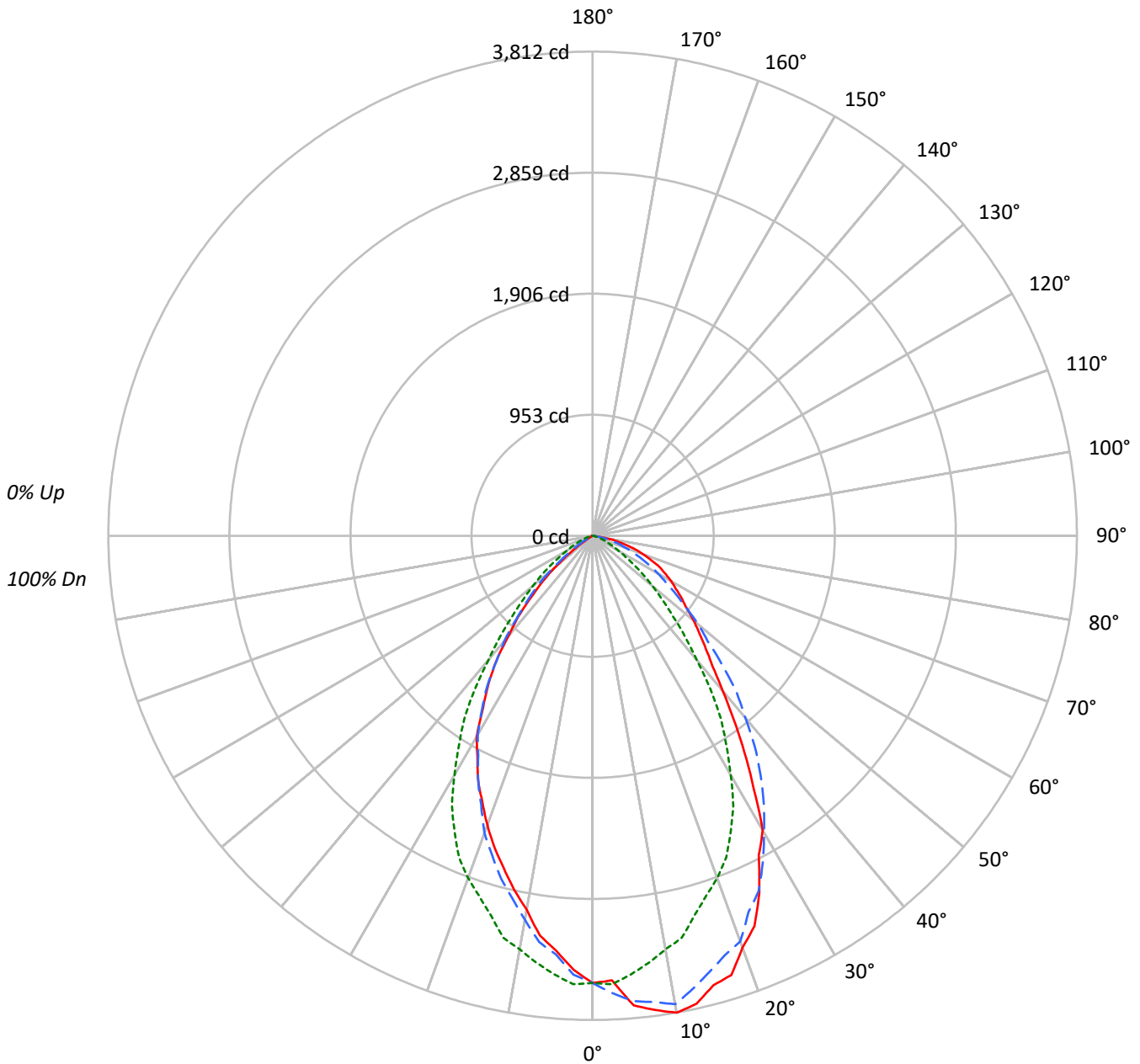
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5047.0 lumens  
Efficiency: N/A  
Efficacy: 70.1 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 EX4C609035 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°	339728	339728	339728
5°	359428	335727	317731
10°	373519	323884	292854
15°	366057	309118	270320
20°	354179	294346	248828
25°	330368	273718	226981
30°	298227	242240	203211
35°	245654	207371	168583
40°	200486	160067	129749
45°	172248	121569	93322
50°	155904	92543	58948
55°	143461	66751	21314
60°	137690	45620	3261
65°	132992	30845	982
70°	119081	21413	1213
75°	97600	11035	0
80°	61011	4668	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.9	6.5
10°-20°	888.8	17.6
20°-30°	1186.8	23.5
30°-40°	1126.6	22.3
40°-50°	778.8	15.4
50°-60°	430.3	8.5
60°-70°	213.7	4.2
70°-80°	84.2	1.7
80°-90°	8.0	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°	2405.5	47.7
0°-40°	3532.1	70.0
0°-60°	4741.1	93.9
0°-90°	5047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3521	3521	3521	3521	3521	
5°	3711	3677	3466	3310	3280	355
15°	3664	3555	3094	2791	2706	1037
25°	3103	3090	2571	2132	2132	1415
35°	2086	2305	1760	1448	1431	1307
45°	1262	1448	891	730	684	985
55°	853	802	397	203	127	768
65°	582	422	135	4	4	565
75°	262	160	30	0	0	279
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°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3504.0	3601.1	3609.6	3601.1	3613.9	3609.6	3630.7	3609.6	3635.0	3597.0	3605.4
5°	3710.9	3672.9	3753.1	3710.9	3710.9	3706.8	3694.1	3689.8	3706.8	3651.9	3677.2
7.5°	3765.9	3820.8	3892.6	3803.9	3808.0	3808.0	3782.7	3774.3	3774.3	3672.9	3702.5
10°	3812.3	3778.4	3816.5	3782.7	3812.3	3808.0	3824.9	3770.0	3808.0	3749.0	3744.7
12.5°	3774.3	3761.6	3812.3	3757.4	3740.6	3744.7	3723.7	3710.9	3723.7	3656.0	3651.9
15°	3664.5	3677.2	3753.1	3694.1	3685.6	3677.2	3651.9	3609.6	3643.5	3550.5	3554.8
17.5°	3626.6	3605.4	3618.2	3567.4	3580.1	3571.7	3567.4	3529.5	3520.9	3461.9	3461.9
20°	3449.3	3495.6	3495.6	3461.9	3461.9	3457.7	3402.8	3436.5	3398.5	3381.6	3398.5
22.5°	3326.7	3331.0	3331.0	3301.4	3305.7	3288.8	3259.2	3238.1	3259.2	3238.1	3204.3
25°	3103.1	3111.5	3162.1	3107.2	3098.8	3115.7	3090.4	3077.6	3073.5	3022.9	3090.4
27.5°	2832.8	2917.2	2913.1	2891.9	2917.2	2883.4	2870.9	2875.0	2887.7	2883.4	2900.3
30°	2676.7	2689.3	2702.0	2685.1	2689.3	2676.7	2676.7	2680.8	2714.6	2702.0	2697.7
32.5°	2359.9	2402.1	2436.0	2436.0	2440.2	2452.9	2448.6	2537.3	2558.4	2516.3	2507.8
35°	2085.5	2115.2	2144.6	2148.9	2203.8	2207.9	2212.2	2237.6	2296.6	2309.3	2305.0
37.5°	1823.9	1853.3	1861.8	1899.8	1929.4	1958.9	1992.8	2026.5	2077.1	2119.3	2098.3
40°	1591.7	1604.2	1625.4	1642.3	1701.3	1701.3	1718.2	1785.8	1840.8	1874.5	1870.2
42.5°	1397.5	1401.6	1418.5	1448.1	1503.0	1490.3	1503.0	1549.5	1629.5	1633.8	1680.3
45°	1262.3	1258.0	1270.8	1274.9	1308.8	1325.7	1334.1	1367.9	1435.4	1443.8	1448.1
47.5°	1139.9	1135.6	1156.8	1165.3	1177.8	1194.7	1194.7	1199.0	1224.3	1245.5	1228.6
50°	1038.6	1038.6	1038.6	1047.0	1068.2	1063.9	1068.2	1085.0	1097.6	1089.2	1085.0
52.5°	928.7	945.6	958.3	962.6	966.8	966.8	971.1	962.6	958.3	945.6	920.3
55°	852.8	869.7	869.7	869.7	869.7	886.6	865.5	869.7	869.7	835.9	802.2
57.5°	776.9	793.8	806.3	789.5	806.3	789.5	781.0	776.9	768.3	734.5	683.9
60°	713.5	722.0	717.7	713.5	722.0	709.2	700.8	683.9	675.5	629.0	595.3
62.5°	641.8	645.9	650.2	641.8	633.3	629.0	612.2	586.8	570.0	531.9	502.3
65°	582.5	570.0	565.7	561.5	553.1	540.4	527.8	498.2	485.5	451.7	422.1
67.5°	493.9	489.8	498.2	485.5	464.4	464.4	451.7	426.4	396.8	375.8	346.2
70°	422.1	418.0	409.5	396.8	392.7	375.8	375.8	346.2	337.7	299.7	274.4
72.5°	346.2	346.2	333.4	320.9	308.1	299.7	295.6	274.4	261.8	240.7	219.5
75°	261.8	261.8	257.5	244.8	236.4	227.9	223.8	206.9	194.2	173.2	160.4
77.5°	185.7	185.7	168.9	160.4	164.6	156.1	147.7	143.6	139.3	126.7	109.8
80°	109.8	105.5	93.0	97.1	93.0	93.0	88.7	84.4	75.9	67.5	59.0
82.5°	29.6	33.7	33.7	33.7	38.0	29.6	29.6	29.6	33.7	33.7	21.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3
87.5°	4.3	8.4	16.9	16.9	16.9	16.9	16.9	12.7	12.7	12.7	8.4
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°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3563.2	3558.9	3563.2	3533.6	3601.1	3550.5	3542.1	3533.6	3563.2	3533.6	3491.5
5°	3639.2	3597.0	3584.3	3571.7	3609.6	3550.5	3537.9	3542.1	3520.9	3466.2	3470.3
7.5°	3664.5	3626.6	3588.6	3508.3	3542.1	3529.5	3495.6	3470.3	3436.5	3390.1	3381.6
10°	3672.9	3630.7	3575.8	3550.5	3499.9	3483.0	3470.3	3428.1	3385.9	3305.7	3284.5
12.5°	3647.6	3597.0	3529.5	3508.3	3470.3	3415.4	3385.9	3343.6	3305.7	3242.4	3195.9
15°	3537.9	3495.6	3474.6	3402.8	3385.9	3352.0	3293.0	3233.9	3179.0	3094.5	3069.2
17.5°	3411.2	3394.4	3373.2	3318.3	3314.2	3280.4	3225.5	3174.7	3103.1	2972.1	2929.9
20°	3280.4	3280.4	3212.8	3191.8	3233.9	3166.3	3124.1	3077.6	2929.9	2866.6	2790.7
22.5°	3183.3	3136.8	3098.8	3065.1	3069.2	3027.0	2968.0	2875.0	2820.1	2744.2	2655.5
25°	2993.3	3010.1	2925.8	2913.1	2925.8	2828.5	2799.1	2723.0	2642.8	2571.0	2503.5
27.5°	2875.0	2828.5	2773.8	2727.3	2727.3	2689.3	2604.9	2588.0	2465.5	2398.0	2313.5
30°	2697.7	2664.0	2617.5	2550.0	2541.6	2512.0	2444.5	2402.1	2275.6	2174.2	2127.7
32.5°	2473.9	2461.3	2423.3	2347.4	2322.1	2288.2	2203.8	2132.0	2073.0	1958.9	1904.1
35°	2313.5	2267.2	2186.9	2123.6	2102.4	2043.4	1975.7	1925.1	1861.8	1760.5	1688.7
37.5°	2073.0	2026.5	1950.4	1874.5	1874.5	1815.4	1722.5	1671.9	1583.2	1524.0	1465.0
40°	1861.8	1802.7	1726.8	1638.1	1625.4	1540.9	1503.0	1418.5	1363.6	1270.8	1262.3
42.5°	1625.4	1570.5	1503.0	1435.4	1384.7	1342.6	1245.5	1182.1	1123.1	1076.6	1063.9
45°	1410.0	1338.3	1279.2	1194.7	1144.1	1093.5	1030.1	987.9	941.5	890.9	861.2
47.5°	1224.3	1165.3	1080.7	1004.8	954.2	928.7	856.9	810.6	772.6	738.8	717.7
50°	1034.4	962.6	916.2	831.6	823.2	764.2	705.1	667.1	645.9	616.5	586.8
52.5°	890.9	823.2	759.9	696.7	662.8	641.8	586.8	548.8	519.4	498.2	481.3
55°	751.4	692.4	641.8	578.4	557.2	527.8	464.4	456.0	426.4	396.8	375.8
57.5°	645.9	591.0	531.9	489.8	451.7	430.7	379.9	346.2	329.3	304.0	282.8
60°	548.8	489.8	443.3	392.7	375.8	346.2	308.1	278.7	257.5	236.4	215.4
62.5°	460.1	409.5	358.9	316.6	291.3	274.4	244.8	219.5	198.5	181.6	164.6
65°	379.9	333.4	291.3	249.1	236.4	215.4	194.2	173.2	156.1	135.1	118.3
67.5°	312.4	270.3	227.9	198.5	185.7	177.3	152.0	130.8	118.3	105.5	88.7
70°	244.8	215.4	181.6	156.1	143.6	130.8	114.0	101.4	84.4	75.9	63.3
72.5°	190.0	164.6	135.1	114.0	105.5	97.1	80.2	67.5	59.0	50.6	42.2
75°	135.1	114.0	97.1	75.9	71.8	67.5	54.9	46.5	38.0	29.6	25.3
77.5°	93.0	75.9	59.0	50.6	46.5	38.0	33.7	25.3	21.2	16.9	12.7
80°	50.6	38.0	29.6	25.3	21.2	16.9	16.9	12.7	8.4	8.4	4.3
82.5°	16.9	12.7	8.4	4.3	4.3	4.3	4.3	4.3	4.3	0.0	4.3
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	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°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3516.8	3470.3	3483.0	3483.0	3474.6	3474.6	3466.2	3453.4	3457.7	3432.2	3377.5
5°	3478.7	3419.7	3411.2	3419.7	3385.9	3377.5	3360.6	3385.9	3309.9	3339.5	3305.7
7.5°	3369.1	3314.2	3301.4	3331.0	3288.8	3263.4	3259.2	3293.0	3225.5	3191.8	3153.7
10°	3246.5	3225.5	3187.5	3166.3	3153.7	3157.8	3124.1	3081.9	3069.2	3060.8	3027.0
12.5°	3136.8	3090.4	3056.6	3031.3	3022.9	3022.9	2968.0	2959.5	2921.5	2913.1	2862.4
15°	3005.8	2951.1	2929.9	2896.2	2866.6	2883.4	2820.1	2803.2	2790.7	2735.7	2744.2
17.5°	2891.9	2832.8	2782.2	2761.0	2735.7	2710.4	2651.2	2664.0	2634.4	2634.4	2558.4
20°	2744.2	2680.8	2642.8	2600.6	2600.6	2566.9	2524.7	2528.8	2490.8	2452.9	2385.3
22.5°	2588.0	2520.4	2473.9	2457.0	2414.9	2406.4	2355.8	2343.1	2292.5	2296.6	2237.6
25°	2423.3	2355.8	2292.5	2296.6	2258.7	2241.9	2212.2	2153.2	2132.0	2106.7	2089.8
27.5°	2229.1	2182.6	2127.7	2123.6	2051.8	2055.9	2018.1	2001.2	1950.4	1963.2	1925.1
30°	2051.8	1984.3	1933.5	1921.0	1891.4	1882.9	1823.9	1798.4	1807.0	1773.1	1752.1
32.5°	1870.2	1769.0	1747.8	1722.5	1705.6	1684.4	1642.3	1659.1	1621.1	1629.5	1595.8
35°	1629.5	1587.4	1532.4	1532.4	1515.6	1498.7	1469.3	1486.1	1448.1	1431.2	1397.5
37.5°	1426.9	1389.0	1334.1	1351.0	1321.4	1296.1	1270.8	1274.9	1241.2	1237.0	1203.1
40°	1207.4	1186.3	1148.4	1148.4	1127.2	1127.2	1114.5	1101.9	1080.7	1055.4	1017.4
42.5°	1000.5	983.6	966.8	971.1	941.5	966.8	933.0	954.2	886.6	882.4	856.9
45°	848.5	810.6	814.8	797.9	781.0	789.5	759.9	768.3	730.4	722.0	696.7
47.5°	688.2	675.5	650.2	641.8	641.8	629.0	616.5	612.2	595.3	574.1	540.4
50°	565.7	519.4	510.8	498.2	489.8	489.8	472.9	447.6	451.7	430.7	396.8
52.5°	443.3	405.2	388.4	384.2	367.4	358.9	337.7	320.9	308.1	299.7	278.7
55°	341.9	308.1	287.1	287.1	261.8	261.8	232.2	219.5	202.6	185.7	173.2
57.5°	257.5	240.7	219.5	202.6	194.2	173.2	156.1	135.1	122.4	97.1	80.2
60°	194.2	177.3	156.1	143.6	135.1	114.0	93.0	75.9	46.5	38.0	33.7
62.5°	143.6	126.7	105.5	97.1	88.7	71.8	50.6	25.3	12.7	12.7	12.7
65°	105.5	84.4	67.5	59.0	50.6	38.0	16.9	8.4	4.3	4.3	4.3
67.5°	71.8	54.9	38.0	33.7	25.3	12.7	4.3	4.3	4.3	4.3	4.3
70°	46.5	33.7	16.9	12.7	8.4	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	29.6	16.9	8.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.3	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	4.3	4.3	4.3
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 EX4C609035 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3436.5	3406.9	3423.8	3385.9	3402.8	3432.2	3411.2	3419.7
5°	3318.3	3301.4	3280.4	3225.5	3267.7	3301.4	3284.5	3280.4
7.5°	3191.8	3132.5	3162.1	3145.3	3136.8	3170.6	3132.5	3174.7
10°	3060.8	3018.6	3014.4	2984.8	2984.8	3010.1	3014.4	2989.0
12.5°	2866.6	2845.6	2845.6	2841.3	2837.0	2862.4	2866.6	2854.0
15°	2727.3	2718.9	2697.7	2693.6	2668.3	2706.1	2710.4	2706.1
17.5°	2558.4	2562.6	2541.6	2541.6	2558.4	2571.0	2537.3	2571.0
20°	2444.5	2423.3	2414.9	2376.8	2398.0	2419.2	2419.2	2423.3
22.5°	2279.7	2246.0	2258.7	2237.6	2224.8	2254.4	2254.4	2267.2
25°	2094.0	2094.0	2102.4	2089.8	2098.3	2115.2	2102.4	2132.0
27.5°	1916.7	1933.5	1933.5	1916.7	1925.1	1975.7	1996.9	1963.2
30°	1752.1	1756.2	1769.0	1760.5	1785.8	1802.7	1798.4	1823.9
32.5°	1566.4	1587.4	1595.8	1583.2	1591.7	1629.5	1608.5	1604.2
35°	1422.8	1384.7	1380.6	1384.7	1401.6	1410.0	1401.6	1431.2
37.5°	1215.9	1203.1	1186.3	1190.6	1203.1	1220.2	1228.6	1249.6
40°	1017.4	1000.5	1000.5	996.4	983.6	1030.1	1030.1	1030.1
42.5°	844.4	840.1	819.1	819.1	835.9	848.5	840.1	869.7
45°	692.4	675.5	662.8	662.8	675.5	675.5	688.2	683.9
47.5°	544.7	527.8	531.9	519.4	531.9	548.8	527.8	531.9
50°	409.5	409.5	401.1	409.5	405.2	409.5	401.1	392.7
52.5°	278.7	316.6	320.9	304.0	266.0	232.2	211.1	227.9
55°	160.4	143.6	143.6	139.3	130.8	126.7	114.0	126.7
57.5°	80.2	71.8	71.8	71.8	67.5	63.3	54.9	54.9
60°	33.7	29.6	29.6	25.3	21.2	16.9	12.7	16.9
62.5°	12.7	8.4	8.4	8.4	8.4	8.4	8.4	8.4
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)