

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: **LD4C65D010 EX4C659030 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: LD4C65D010 EX4C659030 4LBSQLWWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

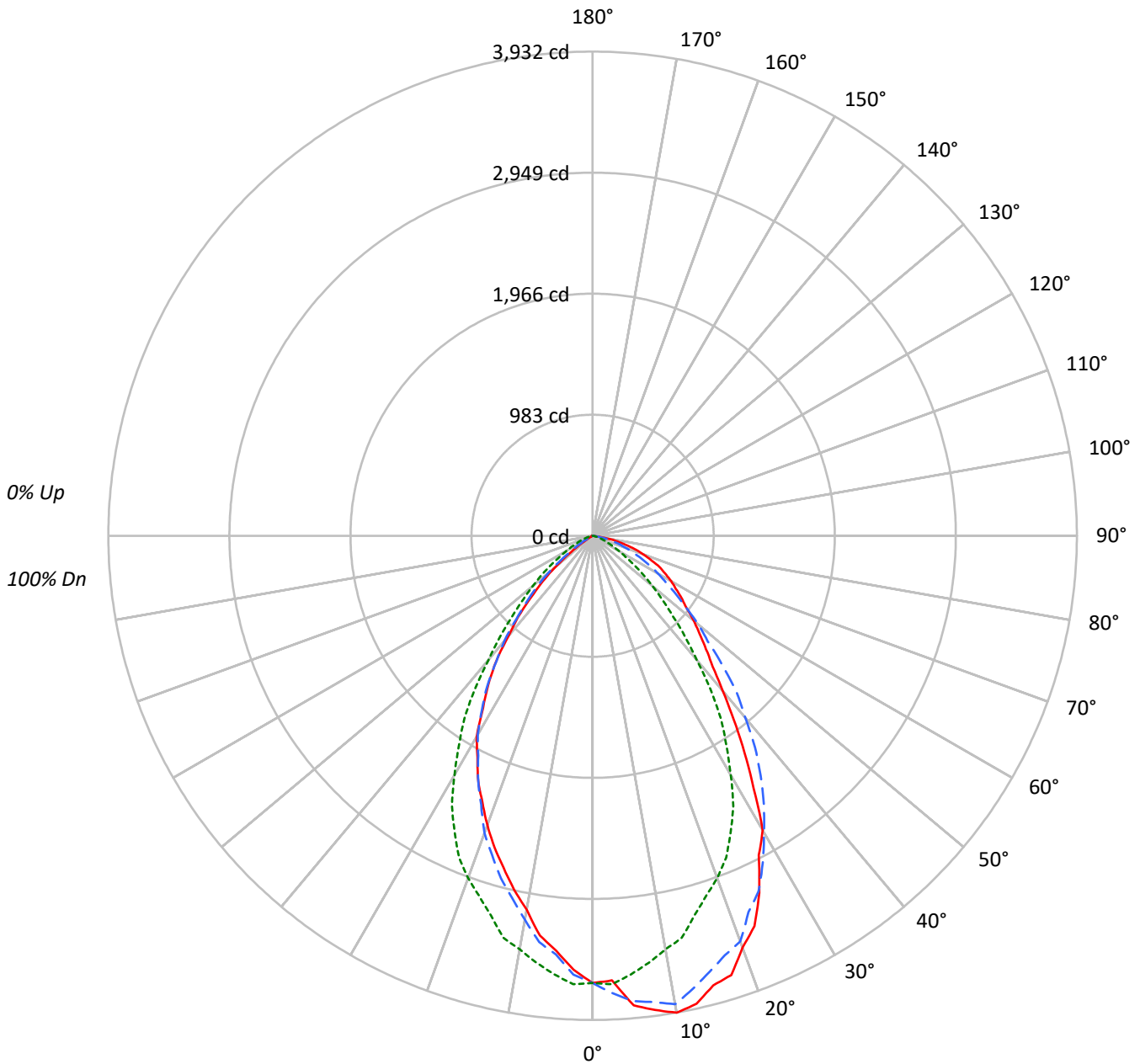
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5206.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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): 72.4  
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									
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°	350428	350428	350428
5°	370761	346304	327746
10°	385286	334093	302074
15°	377584	318857	278840
20°	365330	303618	256662
25°	340780	282342	234135
30°	307619	249872	209607
35°	253404	213909	173895
40°	206797	165105	133842
45°	177679	125389	96270
50°	160813	95455	60795
55°	147986	68854	21987
60°	142032	47048	3358
65°	137193	31827	1005
70°	122833	22090	1241
75°	100694	11371	0
80°	62956	4834	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.3	6.5
10°-20°	916.8	17.6
20°-30°	1224.2	23.5
30°-40°	1162.1	22.3
40°-50°	803.3	15.4
50°-60°	443.8	8.5
60°-70°	220.4	4.2
70°-80°	86.8	1.7
80°-90°	8.3	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°	2481.2	47.7
0°-40°	3643.4	70.0
0°-60°	4890.5	93.9
0°-90°	5206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5206.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3632	3632	3632	3632	3632	
5°	3828	3793	3575	3414	3384	366
15°	3780	3667	3192	2879	2791	1069
25°	3201	3188	2652	2199	2199	1459
35°	2151	2378	1816	1494	1476	1348
45°	1302	1494	919	753	706	1016
55°	880	828	409	209	131	792
65°	601	435	139	4	4	583
75°	270	166	30	0	0	288
85°	0	4	0	0	0	25
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°	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8
2.5°	3614.4	3714.6	3723.3	3714.6	3727.7	3723.3	3745.1	3723.3	3749.5	3710.3	3719.0
5°	3827.9	3788.6	3871.4	3827.9	3827.9	3823.6	3810.5	3806.0	3823.6	3766.9	3793.1
7.5°	3884.5	3941.1	4015.2	3923.7	3928.0	3928.0	3901.9	3893.2	3893.2	3788.6	3819.2
10°	3932.4	3897.5	3936.7	3901.9	3932.4	3928.0	3945.4	3888.8	3928.0	3867.1	3862.7
12.5°	3893.2	3880.1	3932.4	3875.8	3858.4	3862.7	3841.0	3827.9	3841.0	3771.2	3766.9
15°	3779.9	3793.1	3871.4	3810.5	3801.8	3793.1	3766.9	3723.3	3758.2	3662.4	3666.8
17.5°	3740.8	3719.0	3732.1	3679.8	3692.9	3684.2	3679.8	3640.7	3631.8	3570.9	3570.9
20°	3557.9	3605.7	3605.7	3570.9	3570.9	3566.7	3510.0	3544.8	3505.6	3488.2	3505.6
22.5°	3431.5	3436.0	3436.0	3405.4	3409.9	3392.5	3361.9	3340.1	3361.9	3340.1	3305.3
25°	3200.9	3209.6	3261.8	3205.1	3196.4	3213.8	3187.7	3174.6	3170.3	3118.1	3187.7
27.5°	2922.1	3009.1	3004.8	2983.0	3009.1	2974.3	2961.3	2965.6	2978.7	2974.3	2991.7
30°	2761.0	2774.0	2787.1	2769.7	2774.0	2761.0	2761.0	2765.3	2800.1	2787.1	2782.7
32.5°	2434.3	2477.8	2512.8	2512.8	2517.0	2530.2	2525.7	2617.2	2639.0	2595.5	2586.8
35°	2151.3	2181.8	2212.2	2216.6	2273.2	2277.5	2281.9	2308.0	2369.0	2382.1	2377.7
37.5°	1881.3	1911.7	1920.4	1959.7	1990.2	2020.6	2055.5	2090.3	2142.5	2186.1	2164.4
40°	1641.8	1654.8	1676.6	1694.0	1754.9	1754.9	1772.3	1842.1	1898.7	1933.5	1929.1
42.5°	1441.5	1445.8	1463.2	1493.7	1550.4	1537.2	1550.4	1598.3	1680.9	1685.3	1733.3
45°	1302.1	1297.7	1310.8	1315.1	1350.1	1367.5	1376.2	1411.0	1480.6	1489.3	1493.7
47.5°	1175.9	1171.4	1193.3	1202.0	1214.9	1232.3	1232.3	1236.8	1262.9	1284.7	1267.3
50°	1071.3	1071.3	1071.3	1080.0	1101.8	1097.4	1101.8	1119.2	1132.2	1123.5	1119.2
52.5°	958.0	975.4	988.5	993.0	997.2	997.2	1001.7	993.0	988.5	975.4	949.3
55°	879.7	897.1	897.1	897.1	897.1	914.5	892.8	897.1	897.1	862.3	827.5
57.5°	801.4	818.8	831.7	814.3	831.7	814.3	805.6	801.4	792.5	757.7	705.5
60°	736.0	744.7	740.3	736.0	744.7	731.6	722.9	705.5	696.8	648.8	614.0
62.5°	662.0	666.2	670.7	662.0	653.3	648.8	631.4	605.3	587.9	548.7	518.1
65°	600.9	587.9	583.5	579.2	570.5	557.4	544.4	513.9	500.7	465.9	435.4
67.5°	509.4	505.2	513.9	500.7	479.1	479.1	465.9	439.8	409.3	387.6	357.1
70°	435.4	431.1	422.4	409.3	405.0	387.6	387.6	357.1	348.4	309.1	283.0
72.5°	357.1	357.1	344.0	331.0	317.9	309.1	304.9	283.0	270.1	248.2	226.4
75°	270.1	270.1	265.6	252.5	243.8	235.1	230.8	213.4	200.3	178.6	165.5
77.5°	191.6	191.6	174.2	165.5	169.8	161.1	152.4	148.1	143.7	130.7	113.3
80°	113.3	108.9	95.9	100.1	95.9	95.9	91.4	87.0	78.3	69.6	60.9
82.5°	30.5	34.8	34.8	34.8	39.2	30.5	30.5	30.5	34.8	34.8	21.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4
87.5°	4.4	8.7	17.4	17.4	17.4	17.4	17.4	13.1	13.1	13.1	8.7
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°	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8
2.5°	3675.5	3671.1	3675.5	3645.0	3714.6	3662.4	3653.7	3645.0	3675.5	3645.0	3601.5
5°	3753.8	3710.3	3697.2	3684.2	3723.3	3662.4	3649.4	3653.7	3631.8	3575.4	3579.6
7.5°	3779.9	3740.8	3701.6	3618.9	3653.7	3640.7	3605.7	3579.6	3544.8	3496.9	3488.2
10°	3788.6	3745.1	3688.5	3662.4	3610.2	3592.8	3579.6	3536.1	3492.6	3409.9	3388.0
12.5°	3762.5	3710.3	3640.7	3618.9	3579.6	3523.0	3492.6	3448.9	3409.9	3344.5	3296.6
15°	3649.4	3605.7	3584.1	3510.0	3492.6	3457.6	3396.7	3335.8	3279.2	3192.0	3165.9
17.5°	3518.7	3501.3	3479.5	3422.8	3418.6	3383.8	3327.1	3274.7	3200.9	3065.7	3022.2
20°	3383.8	3383.8	3314.0	3292.3	3335.8	3266.0	3222.5	3174.6	3022.2	2956.9	2878.6
22.5°	3283.6	3235.7	3196.4	3161.6	3165.9	3122.4	3061.5	2965.6	2908.9	2830.6	2739.2
25°	3087.6	3105.0	3018.0	3004.8	3018.0	2917.6	2887.3	2808.8	2726.0	2652.0	2582.4
27.5°	2965.6	2917.6	2861.2	2813.2	2813.2	2774.0	2687.0	2669.6	2543.1	2473.5	2386.4
30°	2782.7	2747.9	2699.9	2630.3	2621.6	2591.1	2521.5	2477.8	2347.3	2242.7	2194.8
32.5°	2551.8	2538.9	2499.6	2421.3	2395.2	2360.3	2273.2	2199.2	2138.3	2020.6	1964.1
35°	2386.4	2338.6	2255.8	2190.5	2168.7	2107.7	2038.0	1985.8	1920.4	1816.0	1742.0
37.5°	2138.3	2090.3	2011.9	1933.5	1933.5	1872.6	1776.8	1724.5	1633.1	1572.0	1511.1
40°	1920.4	1859.5	1781.2	1689.7	1676.6	1589.4	1550.4	1463.2	1406.5	1310.8	1302.1
42.5°	1676.6	1620.0	1550.4	1480.6	1428.4	1384.9	1284.7	1219.4	1158.5	1110.5	1097.4
45°	1454.5	1380.4	1319.5	1232.3	1180.1	1127.9	1062.6	1019.1	971.1	918.9	888.4
47.5°	1262.9	1202.0	1114.8	1036.5	984.3	958.0	883.9	836.2	796.9	762.1	740.3
50°	1067.0	993.0	945.0	857.8	849.1	788.2	727.3	688.1	666.2	635.9	605.3
52.5°	918.9	849.1	783.8	718.6	683.6	662.0	605.3	566.1	535.7	513.9	496.5
55°	775.1	714.2	662.0	596.6	574.8	544.4	479.1	470.4	439.8	409.3	387.6
57.5°	666.2	609.6	548.7	505.2	465.9	444.3	391.9	357.1	339.7	313.6	291.7
60°	566.1	505.2	457.2	405.0	387.6	357.1	317.9	287.5	265.6	243.8	222.1
62.5°	474.6	422.4	370.2	326.6	300.4	283.0	252.5	226.4	204.7	187.3	169.8
65°	391.9	344.0	300.4	256.9	243.8	222.1	200.3	178.6	161.1	139.4	122.0
67.5°	322.3	278.8	235.1	204.7	191.6	182.9	156.8	135.0	122.0	108.9	91.4
70°	252.5	222.1	187.3	161.1	148.1	135.0	117.6	104.6	87.0	78.3	65.3
72.5°	196.0	169.8	139.4	117.6	108.9	100.1	82.7	69.6	60.9	52.2	43.5
75°	139.4	117.6	100.1	78.3	74.0	69.6	56.6	47.9	39.2	30.5	26.1
77.5°	95.9	78.3	60.9	52.2	47.9	39.2	34.8	26.1	21.8	17.4	13.1
80°	52.2	39.2	30.5	26.1	21.8	17.4	17.4	13.1	8.7	8.7	4.4
82.5°	17.4	13.1	8.7	4.4	4.4	4.4	4.4	4.4	4.4	0.0	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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	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°	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8
2.5°	3627.6	3579.6	3592.8	3592.8	3584.1	3584.1	3575.4	3562.2	3566.7	3540.4	3483.9
5°	3588.3	3527.4	3518.7	3527.4	3492.6	3483.9	3466.5	3492.6	3414.1	3444.7	3409.9
7.5°	3475.2	3418.6	3405.4	3436.0	3392.5	3366.2	3361.9	3396.7	3327.1	3292.3	3253.1
10°	3348.8	3327.1	3287.9	3266.0	3253.1	3257.3	3222.5	3179.0	3165.9	3157.2	3122.4
12.5°	3235.7	3187.7	3152.9	3126.8	3118.1	3118.1	3061.5	3052.8	3013.5	3004.8	2952.6
15°	3100.5	3044.1	3022.2	2987.4	2956.9	2974.3	2908.9	2891.5	2878.6	2821.9	2830.6
17.5°	2983.0	2922.1	2869.9	2848.0	2821.9	2795.8	2734.7	2747.9	2717.3	2717.3	2639.0
20°	2830.6	2765.3	2726.0	2682.5	2682.5	2647.7	2604.2	2608.5	2569.3	2530.2	2460.4
22.5°	2669.6	2599.8	2551.8	2534.4	2490.9	2482.2	2430.0	2416.9	2364.7	2369.0	2308.0
25°	2499.6	2430.0	2364.7	2369.0	2329.9	2312.5	2281.9	2221.0	2199.2	2173.1	2155.7
27.5°	2299.3	2251.4	2194.8	2190.5	2116.4	2120.7	2081.6	2064.2	2011.9	2025.0	1985.8
30°	2116.4	2046.8	1994.5	1981.5	1951.0	1942.3	1881.3	1855.1	1863.9	1829.0	1807.3
32.5°	1929.1	1824.7	1802.9	1776.8	1759.4	1737.5	1694.0	1711.4	1672.2	1680.9	1646.1
35°	1680.9	1637.4	1580.7	1580.7	1563.3	1545.9	1515.5	1533.0	1493.7	1476.3	1441.5
37.5°	1471.9	1432.8	1376.2	1393.6	1363.0	1336.9	1310.8	1315.1	1280.3	1276.0	1241.0
40°	1245.5	1223.6	1184.6	1184.6	1162.7	1162.7	1149.6	1136.6	1114.8	1088.7	1049.4
42.5°	1032.0	1014.6	997.2	1001.7	971.1	997.2	962.4	984.3	914.5	910.2	883.9
45°	875.2	836.2	840.4	823.0	805.6	814.3	783.8	792.5	753.4	744.7	718.6
47.5°	709.9	696.8	670.7	662.0	662.0	648.8	635.9	631.4	614.0	592.2	557.4
50°	583.5	535.7	526.9	513.9	505.2	505.2	487.8	461.7	465.9	444.3	409.3
52.5°	457.2	418.0	400.6	396.3	378.9	370.2	348.4	331.0	317.9	309.1	287.5
55°	352.7	317.9	296.2	296.2	270.1	270.1	239.5	226.4	209.0	191.6	178.6
57.5°	265.6	248.2	226.4	209.0	200.3	178.6	161.1	139.4	126.3	100.1	82.7
60°	200.3	182.9	161.1	148.1	139.4	117.6	95.9	78.3	47.9	39.2	34.8
62.5°	148.1	130.7	108.9	100.1	91.4	74.0	52.2	26.1	13.1	13.1	13.1
65°	108.9	87.0	69.6	60.9	52.2	39.2	17.4	8.7	4.4	4.4	4.4
67.5°	74.0	56.6	39.2	34.8	26.1	13.1	4.4	4.4	4.4	4.4	4.4
70°	47.9	34.8	17.4	13.1	8.7	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	30.5	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.4	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	4.4	4.4	4.4
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: LD4C65D010 EX4C659030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8	3631.8
2.5°	3544.8	3514.3	3531.7	3492.6	3510.0	3540.4	3518.7	3527.4
5°	3422.8	3405.4	3383.8	3327.1	3370.6	3405.4	3388.0	3383.8
7.5°	3292.3	3231.2	3261.8	3244.4	3235.7	3270.5	3231.2	3274.7
10°	3157.2	3113.7	3109.4	3078.9	3078.9	3105.0	3109.4	3083.1
12.5°	2956.9	2935.2	2935.2	2930.8	2926.3	2952.6	2956.9	2943.9
15°	2813.2	2804.5	2782.7	2778.4	2752.3	2791.4	2795.8	2791.4
17.5°	2639.0	2643.3	2621.6	2621.6	2639.0	2652.0	2617.2	2652.0
20°	2521.5	2499.6	2490.9	2451.7	2473.5	2495.4	2495.4	2499.6
22.5°	2351.5	2316.7	2329.9	2308.0	2294.9	2325.4	2325.4	2338.6
25°	2160.0	2160.0	2168.7	2155.7	2164.4	2181.8	2168.7	2199.2
27.5°	1977.1	1994.5	1994.5	1977.1	1985.8	2038.0	2059.8	2025.0
30°	1807.3	1811.6	1824.7	1816.0	1842.1	1859.5	1855.1	1881.3
32.5°	1615.7	1637.4	1646.1	1633.1	1641.8	1680.9	1659.2	1654.8
35°	1467.6	1428.4	1424.1	1428.4	1445.8	1454.5	1445.8	1476.3
37.5°	1254.2	1241.0	1223.6	1228.1	1241.0	1258.6	1267.3	1289.0
40°	1049.4	1032.0	1032.0	1027.8	1014.6	1062.6	1062.6	1062.6
42.5°	871.0	866.5	844.9	844.9	862.3	875.2	866.5	897.1
45°	714.2	696.8	683.6	683.6	696.8	696.8	709.9	705.5
47.5°	561.8	544.4	548.7	535.7	548.7	566.1	544.4	548.7
50°	422.4	422.4	413.7	422.4	418.0	422.4	413.7	405.0
52.5°	287.5	326.6	331.0	313.6	274.3	239.5	217.7	235.1
55°	165.5	148.1	148.1	143.7	135.0	130.7	117.6	130.7
57.5°	82.7	74.0	74.0	74.0	69.6	65.3	56.6	56.6
60°	34.8	30.5	30.5	26.1	21.8	17.4	13.1	17.4
62.5°	13.1	8.7	8.7	8.7	8.7	8.7	8.7	8.7
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)