

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 EX4C559035 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 EX4C559035 4LBSQLWWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

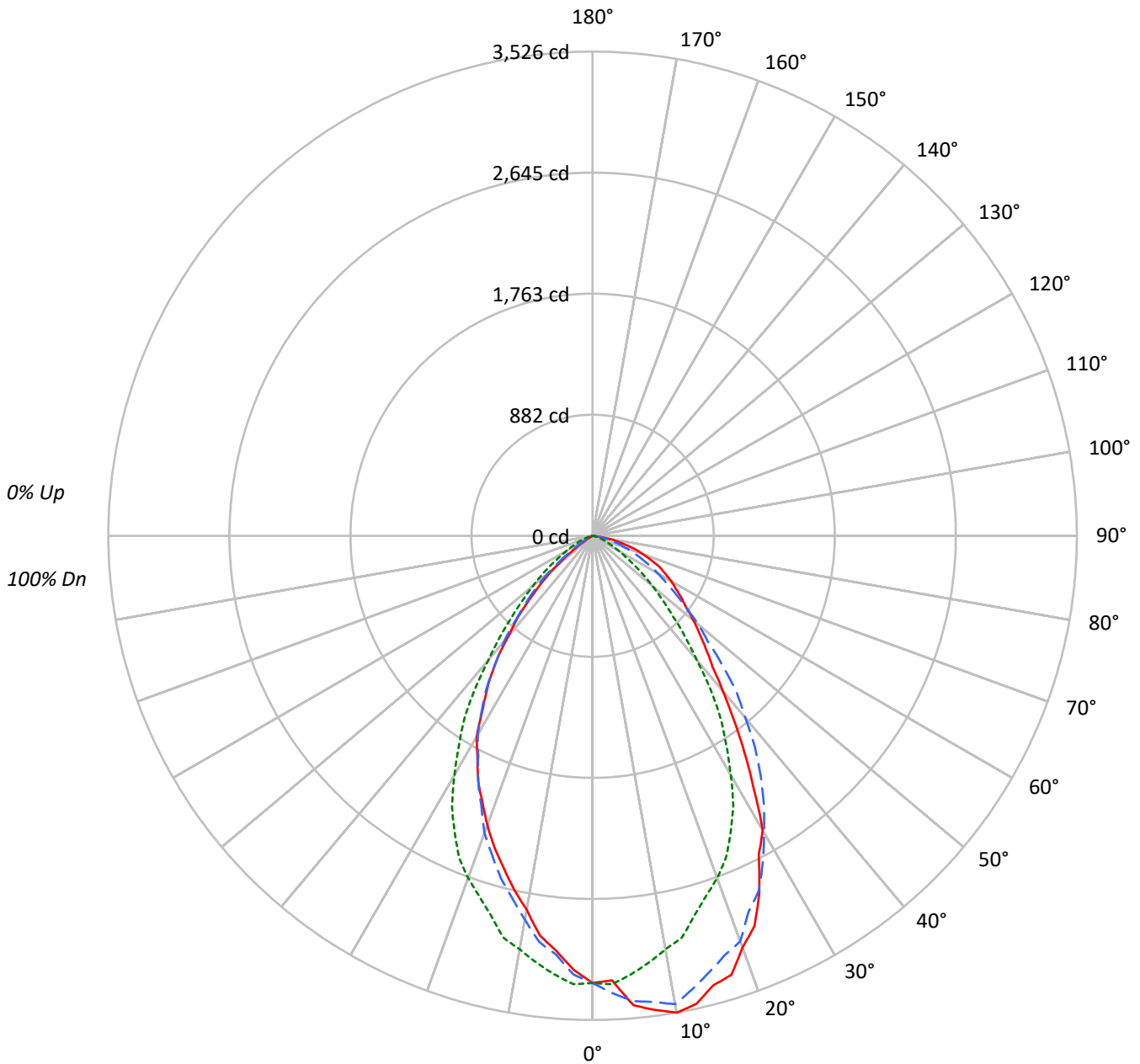
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4668.0 lumens
Efficiency: N/A
Efficacy: 73.1 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 (A_{in}): 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°	314216	314216	314216
5°	332444	310515	293875
10°	345478	299566	270858
15°	338566	285903	250021
20°	327584	272239	230140
25°	305562	253160	209936
30°	275832	224046	187947
35°	227207	191799	155920
40°	185422	148050	120012
45°	159312	112440	86322
50°	144196	85593	54520
55°	132695	61738	19716
60°	127365	42185	3010
65°	123015	28539	913
70°	110138	19804	1128
75°	90293	10215	0
80°	56455	4334	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	6.5
10°-20°	822.0	17.6
20°-30°	1097.7	23.5
30°-40°	1042.0	22.3
40°-50°	720.3	15.4
50°-60°	398.0	8.5
60°-70°	197.6	4.2
70°-80°	77.9	1.7
80°-90°	7.4	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°	2224.8	47.7
0°-40°	3266.8	70.0
0°-60°	4385.1	93.9
0°-90°	4668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3256	3256	3256	3256	3256	
5°	3432	3401	3206	3061	3034	329
15°	3389	3288	2862	2581	2503	959
25°	2870	2858	2378	1972	1972	1308
35°	1929	2132	1628	1339	1324	1208
45°	1168	1339	824	676	633	911
55°	789	742	367	187	117	710
65°	539	390	125	4	4	523
75°	242	148	27	0	0	258
85°	0	4	0	0	0	22
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3240.9	3330.7	3338.5	3330.7	3342.5	3338.5	3358.1	3338.5	3362.1	3326.9	3334.7
5°	3432.3	3397.1	3471.3	3432.3	3432.3	3428.5	3416.7	3412.7	3428.5	3377.7	3401.1
7.5°	3483.1	3533.9	3600.3	3518.3	3522.1	3522.1	3498.7	3490.9	3490.9	3397.1	3424.5
10°	3526.1	3494.7	3529.9	3498.7	3526.1	3522.1	3537.7	3486.9	3522.1	3467.5	3463.5
12.5°	3490.9	3479.1	3526.1	3475.3	3459.7	3463.5	3444.1	3432.3	3444.1	3381.5	3377.7
15°	3389.3	3401.1	3471.3	3416.7	3408.9	3401.1	3377.7	3338.5	3369.9	3283.9	3287.9
17.5°	3354.3	3334.7	3346.5	3299.5	3311.3	3303.5	3299.5	3264.5	3256.5	3201.9	3201.9
20°	3190.3	3233.1	3233.1	3201.9	3201.9	3198.1	3147.3	3178.5	3143.3	3127.7	3143.3
22.5°	3076.9	3080.9	3080.9	3053.5	3057.5	3041.9	3014.5	2994.9	3014.5	2994.9	2963.7
25°	2870.1	2877.9	2924.7	2873.9	2866.1	2881.7	2858.3	2846.5	2842.7	2795.9	2858.3
27.5°	2620.1	2698.1	2694.3	2674.7	2698.1	2666.9	2655.3	2659.1	2670.9	2666.9	2682.5
30°	2475.7	2487.3	2499.1	2483.5	2487.3	2475.7	2475.7	2479.5	2510.7	2499.1	2495.1
32.5°	2182.7	2221.7	2253.1	2253.1	2256.9	2268.7	2264.7	2346.7	2366.3	2327.3	2319.5
35°	1928.9	1956.3	1983.5	1987.5	2038.3	2042.1	2046.1	2069.5	2124.1	2135.9	2131.9
37.5°	1686.9	1714.2	1722.0	1757.1	1784.5	1811.8	1843.1	1874.3	1921.1	1960.1	1940.7
40°	1472.1	1483.8	1503.3	1518.9	1573.6	1573.6	1589.2	1651.7	1702.5	1733.7	1729.8
42.5°	1292.5	1296.4	1312.0	1339.3	1390.1	1378.4	1390.1	1433.1	1507.2	1511.1	1554.1
45°	1167.5	1163.6	1175.4	1179.2	1210.5	1226.1	1233.9	1265.2	1327.6	1335.4	1339.3
47.5°	1054.3	1050.4	1069.9	1077.8	1089.4	1105.0	1105.0	1109.0	1132.4	1151.9	1136.3
50°	960.6	960.6	960.6	968.4	988.0	984.0	988.0	1003.6	1015.2	1007.4	1003.6
52.5°	859.0	874.6	886.4	890.3	894.2	894.2	898.2	890.3	886.4	874.6	851.2
55°	788.8	804.4	804.4	804.4	804.4	820.0	800.5	804.4	804.4	773.2	742.0
57.5°	718.6	734.2	745.8	730.2	745.8	730.2	722.4	718.6	710.6	679.4	632.6
60°	660.0	667.8	663.8	660.0	667.8	656.0	648.2	632.6	624.8	581.8	550.6
62.5°	593.6	597.4	601.4	593.6	585.8	581.8	566.2	542.8	527.2	492.0	464.6
65°	538.8	527.2	523.2	519.4	511.6	499.8	488.2	460.8	449.0	417.8	390.4
67.5°	456.8	453.0	460.8	449.0	429.6	429.6	417.8	394.4	367.0	347.6	320.2
70°	390.4	386.6	378.8	367.0	363.2	347.6	347.6	320.2	312.4	277.2	253.8
72.5°	320.2	320.2	308.4	296.8	285.0	277.2	273.4	253.8	242.2	222.6	203.0
75°	242.2	242.2	238.2	226.4	218.6	210.8	207.0	191.4	179.6	160.2	148.4
77.5°	171.8	171.8	156.2	148.4	152.2	144.4	136.6	132.8	128.8	117.2	101.6
80°	101.6	97.6	86.0	89.8	86.0	86.0	82.0	78.0	70.2	62.4	54.6
82.5°	27.4	31.2	31.2	31.2	35.2	27.4	27.4	27.4	31.2	31.2	19.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0
87.5°	4.0	7.8	15.6	15.6	15.6	15.6	15.6	11.8	11.8	11.8	7.8
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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3295.7	3291.7	3295.7	3268.3	3330.7	3283.9	3276.1	3268.3	3295.7	3268.3	3229.3
5°	3365.9	3326.9	3315.1	3303.5	3338.5	3283.9	3272.3	3276.1	3256.5	3205.9	3209.7
7.5°	3389.3	3354.3	3319.1	3244.9	3276.1	3264.5	3233.1	3209.7	3178.5	3135.5	3127.7
10°	3397.1	3358.1	3307.3	3283.9	3237.1	3221.5	3209.7	3170.7	3131.7	3057.5	3037.9
12.5°	3373.7	3326.9	3264.5	3244.9	3209.7	3158.9	3131.7	3092.5	3057.5	2998.9	2955.9
15°	3272.3	3233.1	3213.7	3147.3	3131.7	3100.3	3045.7	2991.1	2940.3	2862.1	2838.7
17.5°	3155.1	3139.5	3119.9	3069.1	3065.3	3034.1	2983.3	2936.3	2870.1	2748.9	2709.9
20°	3034.1	3034.1	2971.5	2952.1	2991.1	2928.5	2889.5	2846.5	2709.9	2651.3	2581.1
22.5°	2944.3	2901.3	2866.1	2834.9	2838.7	2799.7	2745.1	2659.1	2608.3	2538.1	2456.1
25°	2768.5	2784.1	2706.1	2694.3	2706.1	2616.1	2588.9	2518.5	2444.3	2377.9	2315.5
27.5°	2659.1	2616.1	2565.5	2522.5	2522.5	2487.3	2409.3	2393.7	2280.3	2217.9	2139.7
30°	2495.1	2463.9	2420.9	2358.5	2350.7	2323.3	2260.9	2221.7	2104.7	2010.9	1967.9
32.5°	2288.1	2276.5	2241.3	2171.1	2147.7	2116.3	2038.3	1971.9	1917.3	1811.8	1761.1
35°	2139.7	2096.9	2022.7	1964.1	1944.5	1889.9	1827.4	1780.5	1722.0	1628.3	1561.9
37.5°	1917.3	1874.3	1804.0	1733.7	1733.7	1679.1	1593.1	1546.3	1464.3	1409.6	1355.0
40°	1722.0	1667.3	1597.1	1515.1	1503.3	1425.2	1390.1	1312.0	1261.2	1175.4	1167.5
42.5°	1503.3	1452.6	1390.1	1327.6	1280.8	1241.7	1151.9	1093.4	1038.7	995.8	984.0
45°	1304.2	1237.8	1183.2	1105.0	1058.2	1011.4	952.8	913.8	870.8	824.0	796.6
47.5°	1132.4	1077.8	999.6	929.4	882.5	859.0	792.6	749.8	714.6	683.4	663.8
50°	956.7	890.3	847.4	769.2	761.4	706.8	652.2	617.0	597.4	570.2	542.8
52.5°	824.0	761.4	702.8	644.4	613.0	593.6	542.8	507.6	480.4	460.8	445.2
55°	695.0	640.4	593.6	535.0	515.4	488.2	429.6	421.8	394.4	367.0	347.6
57.5°	597.4	546.6	492.0	453.0	417.8	398.4	351.4	320.2	304.6	281.2	261.6
60°	507.6	453.0	410.0	363.2	347.6	320.2	285.0	257.8	238.2	218.6	199.2
62.5°	425.6	378.8	332.0	292.8	269.4	253.8	226.4	203.0	183.6	168.0	152.2
65°	351.4	308.4	269.4	230.4	218.6	199.2	179.6	160.2	144.4	125.0	109.4
67.5°	289.0	250.0	210.8	183.6	171.8	164.0	140.6	121.0	109.4	97.6	82.0
70°	226.4	199.2	168.0	144.4	132.8	121.0	105.4	93.8	78.0	70.2	58.6
72.5°	175.8	152.2	125.0	105.4	97.6	89.8	74.2	62.4	54.6	46.8	39.0
75°	125.0	105.4	89.8	70.2	66.4	62.4	50.8	43.0	35.2	27.4	23.4
77.5°	86.0	70.2	54.6	46.8	43.0	35.2	31.2	23.4	19.6	15.6	11.8
80°	46.8	35.2	27.4	23.4	19.6	15.6	15.6	11.8	7.8	7.8	4.0
82.5°	15.6	11.8	7.8	4.0	4.0	4.0	4.0	4.0	4.0	0.0	4.0
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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3252.7	3209.7	3221.5	3221.5	3213.7	3213.7	3205.9	3194.1	3198.1	3174.5	3123.9
5°	3217.5	3162.9	3155.1	3162.9	3131.7	3123.9	3108.3	3131.7	3061.3	3088.7	3057.5
7.5°	3116.1	3065.3	3053.5	3080.9	3041.9	3018.3	3014.5	3045.7	2983.3	2952.1	2916.9
10°	3002.7	2983.3	2948.1	2928.5	2916.9	2920.7	2889.5	2850.5	2838.7	2830.9	2799.7
12.5°	2901.3	2858.3	2827.1	2803.7	2795.9	2795.9	2745.1	2737.3	2702.1	2694.3	2647.5
15°	2780.1	2729.5	2709.9	2678.7	2651.3	2666.9	2608.3	2592.7	2581.1	2530.3	2538.1
17.5°	2674.7	2620.1	2573.3	2553.7	2530.3	2506.9	2452.1	2463.9	2436.5	2436.5	2366.3
20°	2538.1	2479.5	2444.3	2405.3	2405.3	2374.1	2335.1	2338.9	2303.7	2268.7	2206.1
22.5°	2393.7	2331.1	2288.1	2272.5	2233.5	2225.7	2178.9	2167.1	2120.3	2124.1	2069.5
25°	2241.3	2178.9	2120.3	2124.1	2089.1	2073.5	2046.1	1991.5	1971.9	1948.5	1932.9
27.5°	2061.7	2018.7	1967.9	1964.1	1897.7	1901.6	1866.5	1850.9	1804.0	1815.7	1780.5
30°	1897.7	1835.3	1788.3	1776.7	1749.3	1741.5	1686.9	1663.4	1671.3	1640.0	1620.5
32.5°	1729.8	1636.1	1616.5	1593.1	1577.5	1558.0	1518.9	1534.6	1499.4	1507.2	1476.0
35°	1507.2	1468.2	1417.4	1417.4	1401.8	1386.2	1358.9	1374.5	1339.3	1323.7	1292.5
37.5°	1319.8	1284.7	1233.9	1249.5	1222.2	1198.8	1175.4	1179.2	1148.0	1144.1	1112.8
40°	1116.8	1097.2	1062.1	1062.1	1042.6	1042.6	1030.8	1019.2	999.6	976.2	941.0
42.5°	925.4	909.8	894.2	898.2	870.8	894.2	863.0	882.5	820.0	816.2	792.6
45°	784.8	749.8	753.6	738.0	722.4	730.2	702.8	710.6	675.6	667.8	644.4
47.5°	636.6	624.8	601.4	593.6	593.6	581.8	570.2	566.2	550.6	531.0	499.8
50°	523.2	480.4	472.4	460.8	453.0	453.0	437.4	414.0	417.8	398.4	367.0
52.5°	410.0	374.8	359.2	355.4	339.8	332.0	312.4	296.8	285.0	277.2	257.8
55°	316.2	285.0	265.6	265.6	242.2	242.2	214.8	203.0	187.4	171.8	160.2
57.5°	238.2	222.6	203.0	187.4	179.6	160.2	144.4	125.0	113.2	89.8	74.2
60°	179.6	164.0	144.4	132.8	125.0	105.4	86.0	70.2	43.0	35.2	31.2
62.5°	132.8	117.2	97.6	89.8	82.0	66.4	46.8	23.4	11.8	11.8	11.8
65°	97.6	78.0	62.4	54.6	46.8	35.2	15.6	7.8	4.0	4.0	4.0
67.5°	66.4	50.8	35.2	31.2	23.4	11.8	4.0	4.0	4.0	4.0	4.0
70°	43.0	31.2	15.6	11.8	7.8	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	27.4	15.6	7.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	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	4.0	4.0	4.0
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: P#

CATALOG NUMBER: LD4C55D010 EX4C559035 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3178.5	3151.1	3166.7	3131.7	3147.3	3174.5	3155.1	3162.9
5°	3069.1	3053.5	3034.1	2983.3	3022.3	3053.5	3037.9	3034.1
7.5°	2952.1	2897.3	2924.7	2909.1	2901.3	2932.5	2897.3	2936.3
10°	2830.9	2791.9	2788.1	2760.7	2760.7	2784.1	2788.1	2764.5
12.5°	2651.3	2631.9	2631.9	2627.9	2623.9	2647.5	2651.3	2639.7
15°	2522.5	2514.7	2495.1	2491.3	2467.9	2502.9	2506.9	2502.9
17.5°	2366.3	2370.1	2350.7	2350.7	2366.3	2377.9	2346.7	2377.9
20°	2260.9	2241.3	2233.5	2198.3	2217.9	2237.5	2237.5	2241.3
22.5°	2108.5	2077.3	2089.1	2069.5	2057.7	2085.1	2085.1	2096.9
25°	1936.7	1936.7	1944.5	1932.9	1940.7	1956.3	1944.5	1971.9
27.5°	1772.7	1788.3	1788.3	1772.7	1780.5	1827.4	1846.9	1815.7
30°	1620.5	1624.4	1636.1	1628.3	1651.7	1667.3	1663.4	1686.9
32.5°	1448.7	1468.2	1476.0	1464.3	1472.1	1507.2	1487.7	1483.8
35°	1315.9	1280.8	1276.9	1280.8	1296.4	1304.2	1296.4	1323.7
37.5°	1124.6	1112.8	1097.2	1101.2	1112.8	1128.5	1136.3	1155.8
40°	941.0	925.4	925.4	921.6	909.8	952.8	952.8	952.8
42.5°	781.0	777.0	757.6	757.6	773.2	784.8	777.0	804.4
45°	640.4	624.8	613.0	613.0	624.8	624.8	636.6	632.6
47.5°	503.8	488.2	492.0	480.4	492.0	507.6	488.2	492.0
50°	378.8	378.8	371.0	378.8	374.8	378.8	371.0	363.2
52.5°	257.8	292.8	296.8	281.2	246.0	214.8	195.2	210.8
55°	148.4	132.8	132.8	128.8	121.0	117.2	105.4	117.2
57.5°	74.2	66.4	66.4	66.4	62.4	58.6	50.8	50.8
60°	31.2	27.4	27.4	23.4	19.6	15.6	11.8	15.6
62.5°	11.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)