

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: **LD4C70D010 EX4C709050 4LBSQLWWH**

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: LD4C70D010 EX4C709050 4LBSQLWWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

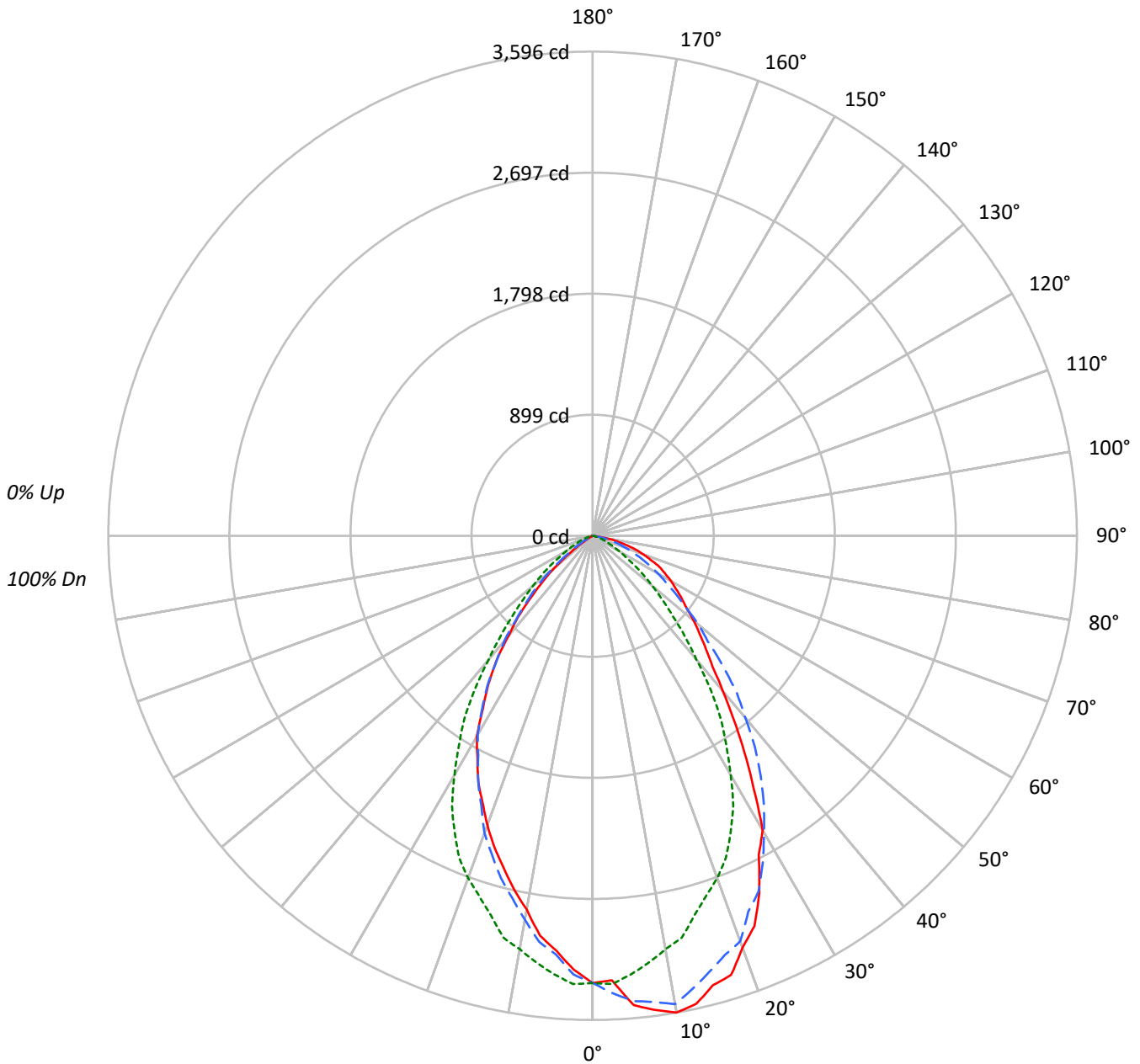
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4760.0 lumens
Efficiency: N/A
Efficacy: 61.0 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): 78
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°	320411	320411	320411
5°	338991	316637	299667
10°	352278	305464	276198
15°	345239	291537	254946
20°	334033	277609	234678
25°	311577	258153	214077
30°	281269	228469	191657
35°	231695	195580	158995
40°	189075	150960	122368
45°	162464	114650	88014
50°	147033	87274	55586
55°	135302	62949	20103
60°	129874	43015	3068
65°	125435	29087	936
70°	112310	20199	1157
75°	92045	10401	0
80°	57566	4445	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.1	6.5
10°-20°	838.2	17.6
20°-30°	1119.3	23.5
30°-40°	1062.6	22.3
40°-50°	734.5	15.4
50°-60°	405.8	8.5
60°-70°	201.5	4.2
70°-80°	79.4	1.7
80°-90°	7.6	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°	2268.7	47.7
0°-40°	3331.2	70.0
0°-60°	4471.5	93.9
0°-90°	4760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3321	3321	3321	3321	3321	
5°	3500	3468	3269	3122	3094	335
15°	3456	3353	2918	2632	2552	978
25°	2927	2915	2425	2011	2011	1334
35°	1967	2174	1660	1366	1350	1232
45°	1191	1366	840	689	645	929
55°	804	757	374	191	120	724
65°	549	398	127	4	4	533
75°	247	151	28	0	0	263
85°	0	4	0	0	0	23
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°	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7
2.5°	3304.8	3396.3	3404.3	3396.3	3408.4	3404.3	3424.3	3404.3	3428.3	3392.4	3400.4
5°	3499.9	3464.0	3539.7	3499.9	3499.9	3496.0	3484.0	3480.0	3496.0	3444.2	3468.1
7.5°	3551.7	3603.5	3671.2	3587.6	3591.5	3591.5	3567.6	3559.7	3559.7	3464.0	3492.0
10°	3595.5	3563.6	3599.4	3567.6	3595.5	3591.5	3607.4	3555.6	3591.5	3535.8	3531.7
12.5°	3559.7	3547.7	3595.5	3543.8	3527.8	3531.7	3511.9	3499.9	3511.9	3448.1	3444.2
15°	3456.1	3468.1	3539.7	3484.0	3476.1	3468.1	3444.2	3404.3	3436.3	3348.6	3352.7
17.5°	3420.4	3400.4	3412.4	3364.5	3376.5	3368.6	3364.5	3328.8	3320.7	3265.0	3265.0
20°	3253.1	3296.8	3296.8	3265.0	3265.0	3261.1	3209.3	3241.1	3205.2	3189.3	3205.2
22.5°	3137.5	3141.6	3141.6	3113.7	3117.7	3101.8	3073.9	3053.9	3073.9	3053.9	3022.1
25°	2926.6	2934.6	2982.3	2930.5	2922.6	2938.5	2914.6	2902.6	2898.7	2851.0	2914.6
27.5°	2671.7	2751.3	2747.4	2727.4	2751.3	2719.5	2707.6	2711.5	2723.5	2719.5	2735.4
30°	2524.5	2536.3	2548.3	2532.4	2536.3	2524.5	2524.5	2528.4	2560.2	2548.3	2544.3
32.5°	2225.7	2265.5	2297.5	2297.5	2301.4	2313.4	2309.4	2393.0	2412.9	2373.2	2365.2
35°	1967.0	1994.9	2022.6	2026.7	2078.5	2082.4	2086.4	2110.3	2166.0	2178.0	2174.0
37.5°	1720.2	1747.9	1755.9	1791.8	1819.7	1847.5	1879.4	1911.3	1959.0	1998.8	1979.0
40°	1501.1	1513.0	1533.0	1548.9	1604.6	1604.6	1620.5	1684.3	1736.1	1767.9	1763.8
42.5°	1318.0	1321.9	1337.8	1365.7	1417.5	1405.5	1417.5	1461.4	1536.9	1540.9	1584.8
45°	1190.6	1186.5	1198.5	1202.4	1234.4	1250.3	1258.3	1290.1	1353.7	1361.7	1365.7
47.5°	1075.1	1071.1	1091.0	1099.0	1110.8	1126.8	1126.8	1130.8	1154.7	1174.6	1158.7
50°	979.5	979.5	979.5	987.5	1007.4	1003.4	1007.4	1023.3	1035.2	1027.2	1023.3
52.5°	875.9	891.8	903.8	907.9	911.8	911.8	915.9	907.9	903.8	891.8	868.0
55°	804.3	820.2	820.2	820.2	820.2	836.1	816.3	820.2	820.2	788.4	756.6
57.5°	732.7	748.6	760.5	744.6	760.5	744.6	736.6	732.7	724.6	692.8	645.0
60°	673.0	680.9	676.9	673.0	680.9	668.9	661.0	645.0	637.1	593.3	561.4
62.5°	605.3	609.2	613.2	605.3	597.3	593.3	577.3	553.5	537.6	501.7	473.8
65°	549.4	537.6	533.5	529.6	521.7	509.6	497.8	469.9	457.8	426.0	398.1
67.5°	465.8	461.9	469.9	457.8	438.0	438.0	426.0	402.2	374.2	354.4	326.5
70°	398.1	394.2	386.2	374.2	370.3	354.4	354.4	326.5	318.5	282.7	258.8
72.5°	326.5	326.5	314.5	302.6	290.6	282.7	278.8	258.8	246.9	227.0	207.0
75°	246.9	246.9	242.9	230.9	222.9	215.0	211.1	195.2	183.1	163.3	151.3
77.5°	175.2	175.2	159.3	151.3	155.2	147.3	139.3	135.4	131.3	119.5	103.6
80°	103.6	99.5	87.7	91.6	87.7	87.7	83.6	79.6	71.6	63.6	55.7
82.5°	27.9	31.8	31.8	31.8	35.9	27.9	27.9	27.9	31.8	31.8	20.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	4.1
87.5°	4.1	8.0	15.9	15.9	15.9	15.9	15.9	12.0	12.0	12.0	8.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7
2.5°	3360.6	3356.6	3360.6	3332.7	3396.3	3348.6	3340.7	3332.7	3360.6	3332.7	3292.9
5°	3432.2	3392.4	3380.4	3368.6	3404.3	3348.6	3336.8	3340.7	3320.7	3269.1	3273.0
7.5°	3456.1	3420.4	3384.5	3308.8	3340.7	3328.8	3296.8	3273.0	3241.1	3197.3	3189.3
10°	3464.0	3424.3	3372.5	3348.6	3300.9	3285.0	3273.0	3233.2	3193.4	3117.7	3097.8
12.5°	3440.2	3392.4	3328.8	3308.8	3273.0	3221.2	3193.4	3153.5	3117.7	3058.0	3014.2
15°	3336.8	3296.8	3277.0	3209.3	3193.4	3161.4	3105.7	3050.0	2998.2	2918.5	2894.7
17.5°	3217.3	3201.3	3181.4	3129.6	3125.7	3093.9	3042.1	2994.2	2926.6	2803.1	2763.3
20°	3093.9	3093.9	3030.1	3010.3	3050.0	2986.2	2946.5	2902.6	2763.3	2703.6	2632.0
22.5°	3002.3	2958.5	2922.6	2890.8	2894.7	2854.9	2799.2	2711.5	2659.7	2588.1	2504.5
25°	2823.1	2839.0	2759.4	2747.4	2759.4	2667.7	2639.9	2568.2	2492.5	2424.8	2361.2
27.5°	2711.5	2667.7	2616.1	2572.2	2572.2	2536.3	2456.8	2440.9	2325.3	2261.6	2181.9
30°	2544.3	2512.5	2468.6	2405.0	2397.0	2369.1	2305.5	2265.5	2146.2	2050.6	2006.7
32.5°	2333.2	2321.4	2285.5	2213.9	2190.0	2158.0	2078.5	2010.8	1955.1	1847.5	1795.8
35°	2181.9	2138.2	2062.6	2002.8	1982.9	1927.2	1863.4	1815.6	1755.9	1660.4	1592.7
37.5°	1955.1	1911.3	1839.5	1767.9	1767.9	1712.2	1624.5	1576.8	1493.2	1437.3	1381.7
40°	1755.9	1700.2	1628.6	1545.0	1533.0	1453.3	1417.5	1337.8	1286.0	1198.5	1190.6
42.5°	1533.0	1481.2	1417.5	1353.7	1306.0	1266.2	1174.6	1114.9	1059.2	1015.4	1003.4
45°	1329.9	1262.2	1206.5	1126.8	1079.0	1031.3	971.5	931.8	887.9	840.2	812.3
47.5°	1154.7	1099.0	1019.3	947.7	899.9	875.9	808.2	764.5	728.7	696.8	676.9
50°	975.6	907.9	864.1	784.3	776.4	720.7	665.0	629.1	609.2	581.4	553.5
52.5°	840.2	776.4	716.6	657.1	625.1	605.3	553.5	517.6	489.8	469.9	453.9
55°	708.7	653.0	605.3	545.5	525.6	497.8	438.0	430.1	402.2	374.2	354.4
57.5°	609.2	557.4	501.7	461.9	426.0	406.2	358.3	326.5	310.6	286.7	266.8
60°	517.6	461.9	418.1	370.3	354.4	326.5	290.6	262.9	242.9	222.9	203.1
62.5°	434.0	386.2	338.5	298.6	274.7	258.8	230.9	207.0	187.2	171.3	155.2
65°	358.3	314.5	274.7	234.9	222.9	203.1	183.1	163.3	147.3	127.4	111.5
67.5°	294.7	254.9	215.0	187.2	175.2	167.2	143.4	123.4	111.5	99.5	83.6
70°	230.9	203.1	171.3	147.3	135.4	123.4	107.5	95.6	79.6	71.6	59.7
72.5°	179.2	155.2	127.4	107.5	99.5	91.6	75.7	63.6	55.7	47.7	39.8
75°	127.4	107.5	91.6	71.6	67.7	63.6	51.8	43.8	35.9	27.9	23.9
77.5°	87.7	71.6	55.7	47.7	43.8	35.9	31.8	23.9	20.0	15.9	12.0
80°	47.7	35.9	27.9	23.9	20.0	15.9	15.9	12.0	8.0	8.0	4.1
82.5°	15.9	12.0	8.0	4.1	4.1	4.1	4.1	4.1	4.1	0.0	4.1
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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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°	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7
2.5°	3316.8	3273.0	3285.0	3285.0	3277.0	3277.0	3269.1	3257.0	3261.1	3237.1	3185.4
5°	3280.9	3225.2	3217.3	3225.2	3193.4	3185.4	3169.5	3193.4	3121.6	3149.6	3117.7
7.5°	3177.5	3125.7	3113.7	3141.6	3101.8	3077.8	3073.9	3105.7	3042.1	3010.3	2974.4
10°	3061.9	3042.1	3006.2	2986.2	2974.4	2978.3	2946.5	2906.7	2894.7	2886.7	2854.9
12.5°	2958.5	2914.6	2882.8	2858.9	2851.0	2851.0	2799.2	2791.2	2755.4	2747.4	2699.7
15°	2834.9	2783.3	2763.3	2731.5	2703.6	2719.5	2659.7	2643.8	2632.0	2580.2	2588.1
17.5°	2727.4	2671.7	2624.0	2604.0	2580.2	2556.3	2500.5	2512.5	2484.5	2484.5	2412.9
20°	2588.1	2528.4	2492.5	2452.7	2452.7	2420.9	2381.1	2385.0	2349.1	2313.4	2249.6
22.5°	2440.9	2377.1	2333.2	2317.3	2277.5	2269.6	2221.8	2209.8	2162.1	2166.0	2110.3
25°	2285.5	2221.8	2162.1	2166.0	2130.3	2114.4	2086.4	2030.8	2010.8	1986.9	1971.0
27.5°	2102.4	2058.5	2006.7	2002.8	1935.1	1939.0	1903.3	1887.4	1839.5	1851.5	1815.6
30°	1935.1	1871.5	1823.6	1811.7	1783.8	1775.9	1720.2	1696.1	1704.3	1672.3	1652.5
32.5°	1763.8	1668.4	1648.4	1624.5	1608.6	1588.7	1548.9	1564.8	1528.9	1536.9	1505.0
35°	1536.9	1497.1	1445.3	1445.3	1429.4	1413.5	1385.7	1401.6	1365.7	1349.8	1318.0
37.5°	1345.8	1310.1	1258.3	1274.2	1246.3	1222.4	1198.5	1202.4	1170.6	1166.7	1134.7
40°	1138.8	1118.8	1083.1	1083.1	1063.1	1063.1	1051.1	1039.2	1019.3	995.4	959.5
42.5°	943.6	927.7	911.8	915.9	887.9	911.8	880.0	899.9	836.1	832.2	808.2
45°	800.3	764.5	768.4	752.5	736.6	744.6	716.6	724.6	688.9	680.9	657.1
47.5°	649.1	637.1	613.2	605.3	605.3	593.3	581.4	577.3	561.4	541.5	509.6
50°	533.5	489.8	481.7	469.9	461.9	461.9	446.0	422.1	426.0	406.2	374.2
52.5°	418.1	382.2	366.3	362.4	346.5	338.5	318.5	302.6	290.6	282.7	262.9
55°	322.4	290.6	270.8	270.8	246.9	246.9	219.0	207.0	191.1	175.2	163.3
57.5°	242.9	227.0	207.0	191.1	183.1	163.3	147.3	127.4	115.4	91.6	75.7
60°	183.1	167.2	147.3	135.4	127.4	107.5	87.7	71.6	43.8	35.9	31.8
62.5°	135.4	119.5	99.5	91.6	83.6	67.7	47.7	23.9	12.0	12.0	12.0
65°	99.5	79.6	63.6	55.7	47.7	35.9	15.9	8.0	4.1	4.1	4.1
67.5°	67.7	51.8	35.9	31.8	23.9	12.0	4.1	4.1	4.1	4.1	4.1
70°	43.8	31.8	15.9	12.0	8.0	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	27.9	15.9	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	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	4.1	4.1	4.1
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: LD4C70D010 EX4C709050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7	3320.7
2.5°	3241.1	3213.2	3229.1	3193.4	3209.3	3237.1	3217.3	3225.2
5°	3129.6	3113.7	3093.9	3042.1	3081.9	3113.7	3097.8	3093.9
7.5°	3010.3	2954.4	2982.3	2966.4	2958.5	2990.3	2954.4	2994.2
10°	2886.7	2846.9	2843.0	2815.1	2815.1	2839.0	2843.0	2819.0
12.5°	2703.6	2683.8	2683.8	2679.7	2675.6	2699.7	2703.6	2691.7
15°	2572.2	2564.3	2544.3	2540.4	2516.5	2552.2	2556.3	2552.2
17.5°	2412.9	2416.8	2397.0	2397.0	2412.9	2424.8	2393.0	2424.8
20°	2305.5	2285.5	2277.5	2241.7	2261.6	2281.6	2281.6	2285.5
22.5°	2150.1	2118.3	2130.3	2110.3	2098.3	2126.2	2126.2	2138.2
25°	1974.9	1974.9	1982.9	1971.0	1979.0	1994.9	1982.9	2010.8
27.5°	1807.7	1823.6	1823.6	1807.7	1815.6	1863.4	1883.3	1851.5
30°	1652.5	1656.4	1668.4	1660.4	1684.3	1700.2	1696.1	1720.2
32.5°	1477.3	1497.1	1505.0	1493.2	1501.1	1536.9	1517.1	1513.0
35°	1341.9	1306.0	1302.1	1306.0	1321.9	1329.9	1321.9	1349.8
37.5°	1146.7	1134.7	1118.8	1122.9	1134.7	1150.8	1158.7	1178.5
40°	959.5	943.6	943.6	939.7	927.7	971.5	971.5	971.5
42.5°	796.4	792.3	772.5	772.5	788.4	800.3	792.3	820.2
45°	653.0	637.1	625.1	625.1	637.1	637.1	649.1	645.0
47.5°	513.7	497.8	501.7	489.8	501.7	517.6	497.8	501.7
50°	386.2	386.2	378.3	386.2	382.2	386.2	378.3	370.3
52.5°	262.9	298.6	302.6	286.7	250.8	219.0	199.1	215.0
55°	151.3	135.4	135.4	131.3	123.4	119.5	107.5	119.5
57.5°	75.7	67.7	67.7	67.7	63.6	59.7	51.8	51.8
60°	31.8	27.9	27.9	23.9	20.0	15.9	12.0	15.9
62.5°	12.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)