

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

Luminaire Equipment: Sample No. Condition Description

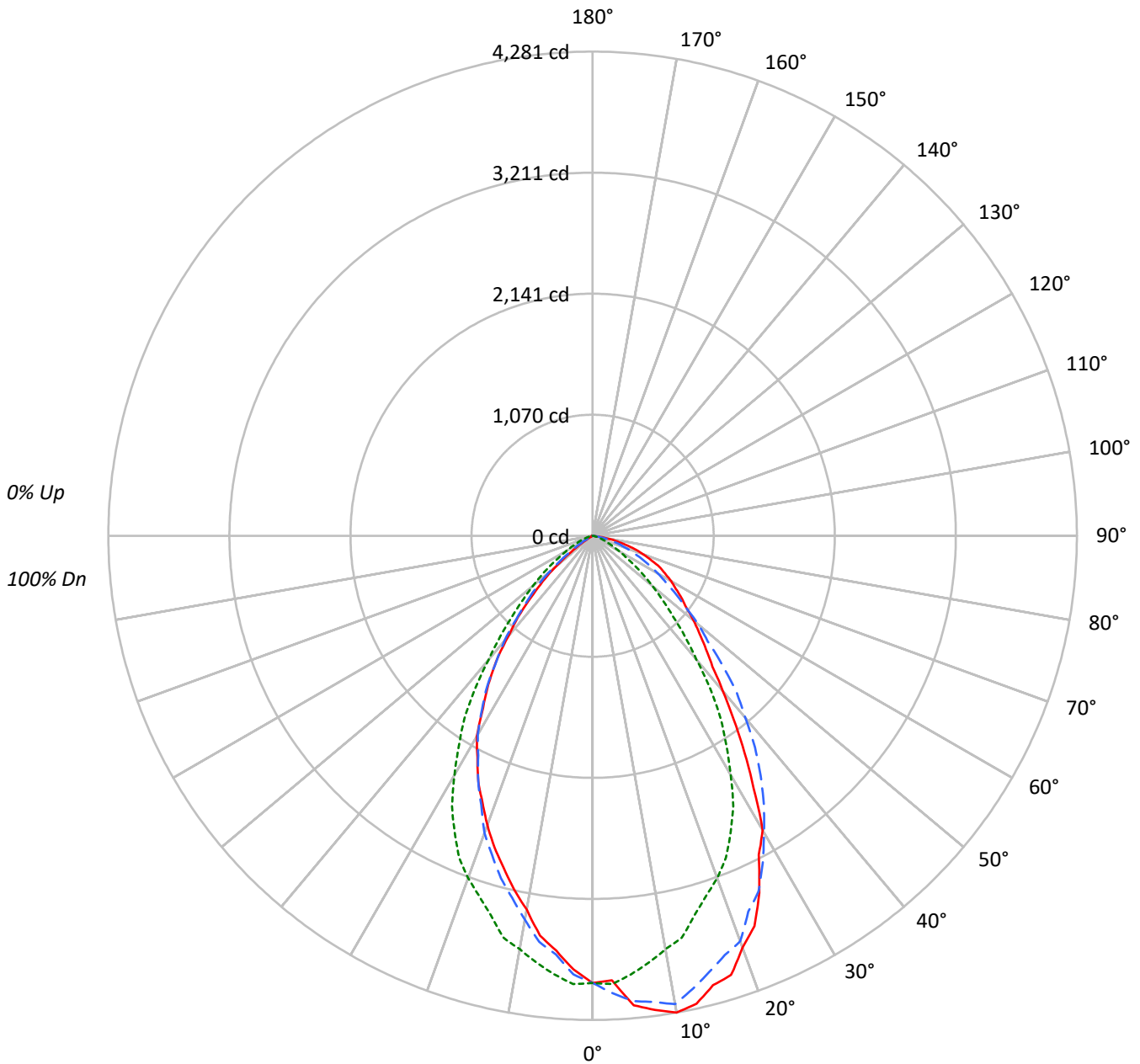
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5667.0 lumens
Efficiency: N/A
Efficacy: 72.7 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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41					41			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	381459	381459	381459
5°	403586	376969	356765
10°	419412	363672	328832
15°	411018	347087	303534
20°	397685	330500	279396
25°	370952	307339	254863
30°	334860	271999	228168
35°	275832	232850	189290
40°	225111	179728	145695
45°	193413	136497	104798
50°	175043	103906	66184
55°	161091	74943	23938
60°	154614	51216	3647
65°	149339	34635	1096
70°	133722	24036	1354
75°	109605	12377	0
80°	68513	5279	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	6.5
10°-20°	998.0	17.6
20°-30°	1332.6	23.5
30°-40°	1265.0	22.3
40°-50°	874.4	15.4
50°-60°	483.1	8.5
60°-70°	239.9	4.2
70°-80°	94.5	1.7
80°-90°	9.0	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°	2701.0	47.7
0°-40°	3966.0	70.0
0°-60°	5323.5	93.9
0°-90°	5667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3953	3953	3953	3953	3953	
5°	4167	4129	3892	3716	3683	399
15°	4115	3992	3475	3134	3039	1164
25°	3484	3470	2887	2394	2394	1588
35°	2342	2588	1977	1626	1607	1467
45°	1417	1626	1000	820	768	1106
55°	958	901	446	228	142	862
65°	654	474	152	5	5	635
75°	294	180	33	0	0	313
85°	0	5	0	0	0	27
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°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	3934.5	4043.5	4053.0	4043.5	4057.8	4053.0	4076.7	4053.0	4081.6	4038.9	4048.3
5°	4166.8	4124.1	4214.2	4166.8	4166.8	4162.2	4147.9	4143.0	4162.2	4100.5	4128.9
7.5°	4228.5	4290.1	4370.7	4271.2	4275.8	4275.8	4247.4	4238.0	4238.0	4124.1	4157.3
10°	4280.7	4242.6	4285.3	4247.4	4280.7	4275.8	4294.8	4233.1	4275.8	4209.5	4204.7
12.5°	4238.0	4223.7	4280.7	4219.0	4200.1	4204.7	4181.1	4166.8	4181.1	4105.2	4100.5
15°	4114.6	4128.9	4214.2	4147.9	4138.4	4128.9	4100.5	4053.0	4091.0	3986.7	3991.5
17.5°	4072.1	4048.3	4062.6	4005.6	4019.9	4010.4	4005.6	3963.1	3953.4	3887.1	3887.1
20°	3873.0	3925.0	3925.0	3887.1	3887.1	3882.5	3820.8	3858.7	3816.0	3797.1	3816.0
22.5°	3735.4	3740.2	3740.2	3707.0	3711.8	3692.9	3659.6	3635.8	3659.6	3635.8	3598.0
25°	3484.3	3493.8	3550.6	3488.9	3479.5	3498.4	3470.0	3455.7	3451.1	3394.2	3470.0
27.5°	3180.8	3275.5	3270.9	3247.1	3275.5	3237.7	3223.5	3228.2	3242.5	3237.7	3256.6
30°	3005.5	3019.6	3033.9	3015.0	3019.6	3005.5	3005.5	3010.2	3048.0	3033.9	3029.1
32.5°	2649.9	2697.2	2735.3	2735.3	2739.9	2754.2	2749.4	2848.9	2872.7	2825.4	2815.9
35°	2341.7	2375.0	2408.0	2412.9	2474.5	2479.2	2484.0	2512.4	2578.7	2593.0	2588.2
37.5°	2047.9	2081.0	2090.5	2133.2	2166.4	2199.5	2237.6	2275.4	2332.3	2379.6	2356.0
40°	1787.2	1801.3	1825.1	1844.0	1910.3	1910.3	1929.3	2005.2	2066.9	2104.8	2099.9
42.5°	1569.2	1573.8	1592.7	1626.0	1687.6	1673.3	1687.6	1739.8	1829.7	1834.5	1886.7
45°	1417.4	1412.6	1426.9	1431.5	1469.6	1488.5	1498.0	1535.9	1611.7	1621.2	1626.0
47.5°	1280.0	1275.2	1298.9	1308.4	1322.5	1341.5	1341.5	1346.3	1374.7	1398.5	1379.5
50°	1166.1	1166.1	1166.1	1175.6	1199.4	1194.6	1199.4	1218.3	1232.4	1223.0	1218.3
52.5°	1042.8	1061.8	1076.1	1080.9	1085.5	1085.5	1090.4	1080.9	1076.1	1061.8	1033.3
55°	957.6	976.5	976.5	976.5	976.5	995.5	971.9	976.5	976.5	938.6	900.7
57.5°	872.3	891.3	905.4	886.4	905.4	886.4	877.0	872.3	862.7	824.8	768.0
60°	801.2	810.7	805.8	801.2	810.7	796.4	786.9	768.0	758.5	706.3	668.4
62.5°	720.6	725.2	730.1	720.6	711.1	706.3	687.4	658.9	640.0	597.3	564.0
65°	654.1	640.0	635.2	630.5	621.0	606.7	592.6	559.4	545.1	507.2	474.0
67.5°	554.6	549.9	559.4	545.1	521.5	521.5	507.2	478.8	445.5	422.0	388.7
70°	474.0	469.3	459.8	445.5	440.9	422.0	422.0	388.7	379.2	336.5	308.1
72.5°	388.7	388.7	374.4	360.3	346.0	336.5	331.9	308.1	294.0	270.2	246.5
75°	294.0	294.0	289.2	274.9	265.4	255.9	251.3	232.3	218.0	194.4	180.1
77.5°	208.6	208.6	189.6	180.1	184.8	175.3	165.8	161.2	156.4	142.3	123.3
80°	123.3	118.5	104.4	109.0	104.4	104.4	99.5	94.7	85.2	75.8	66.3
82.5°	33.2	37.9	37.9	37.9	42.7	33.2	33.2	33.2	37.9	37.9	23.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	4.8
87.5°	4.8	9.5	18.9	18.9	18.9	18.9	18.9	14.3	14.3	14.3	9.5
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°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	4001.0	3996.1	4001.0	3967.7	4043.5	3986.7	3977.2	3967.7	4001.0	3967.7	3920.4
5°	4086.2	4038.9	4024.6	4010.4	4053.0	3986.7	3972.6	3977.2	3953.4	3892.0	3896.6
7.5°	4114.6	4072.1	4029.4	3939.3	3977.2	3963.1	3925.0	3896.6	3858.7	3806.5	3797.1
10°	4124.1	4076.7	4015.1	3986.7	3929.8	3910.9	3896.6	3849.2	3801.9	3711.8	3688.0
12.5°	4095.7	4038.9	3963.1	3939.3	3896.6	3834.9	3801.9	3754.3	3711.8	3640.7	3588.5
15°	3972.6	3925.0	3901.4	3820.8	3801.9	3763.8	3697.5	3631.2	3569.5	3474.6	3446.2
17.5°	3830.3	3811.4	3787.6	3725.9	3721.3	3683.4	3621.7	3564.7	3484.3	3337.2	3289.9
20°	3683.4	3683.4	3607.4	3583.8	3631.2	3555.2	3507.9	3455.7	3289.9	3218.7	3133.5
22.5°	3574.4	3522.2	3479.5	3441.6	3446.2	3398.9	3332.6	3228.2	3166.5	3081.3	2981.7
25°	3361.0	3379.9	3285.2	3270.9	3285.2	3176.0	3142.9	3057.5	2967.4	2886.8	2811.1
27.5°	3228.2	3176.0	3114.5	3062.3	3062.3	3019.6	2924.9	2906.0	2768.3	2692.6	2597.7
30°	3029.1	2991.2	2939.0	2863.3	2853.8	2820.5	2744.8	2697.2	2555.1	2441.3	2389.1
32.5°	2777.8	2763.7	2721.0	2635.7	2607.3	2569.3	2474.5	2393.9	2327.6	2199.5	2138.0
35°	2597.7	2545.7	2455.6	2384.5	2360.7	2294.4	2218.4	2161.6	2090.5	1976.8	1896.2
37.5°	2327.6	2275.4	2190.0	2104.8	2104.8	2038.5	1934.1	1877.3	1777.7	1711.2	1644.9
40°	2090.5	2024.2	1938.9	1839.4	1825.1	1730.2	1687.6	1592.7	1531.1	1426.9	1417.4
42.5°	1825.1	1763.4	1687.6	1611.7	1554.9	1507.5	1398.5	1327.3	1261.0	1208.9	1194.6
45°	1583.3	1502.7	1436.4	1341.5	1284.6	1227.8	1156.7	1109.3	1057.1	1000.3	967.0
47.5°	1374.7	1308.4	1213.5	1128.3	1071.4	1042.8	962.2	910.2	867.5	829.6	805.8
50°	1161.5	1080.9	1028.7	933.8	924.3	858.0	791.7	749.0	725.2	692.2	658.9
52.5°	1000.3	924.3	853.2	782.3	744.2	720.6	658.9	616.2	583.2	559.4	540.4
55°	843.7	777.4	720.6	649.5	625.7	592.6	521.5	512.0	478.8	445.5	422.0
57.5°	725.2	663.6	597.3	549.9	507.2	483.6	426.6	388.7	369.8	341.4	317.6
60°	616.2	549.9	497.7	440.9	422.0	388.7	346.0	312.9	289.2	265.4	241.8
62.5°	516.7	459.8	403.0	355.5	327.1	308.1	274.9	246.5	222.9	203.9	184.8
65°	426.6	374.4	327.1	279.7	265.4	241.8	218.0	194.4	175.3	151.7	132.8
67.5°	350.8	303.5	255.9	222.9	208.6	199.1	170.7	146.9	132.8	118.5	99.5
70°	274.9	241.8	203.9	175.3	161.2	146.9	128.0	113.8	94.7	85.2	71.1
72.5°	213.4	184.8	151.7	128.0	118.5	109.0	90.1	75.8	66.3	56.8	47.4
75°	151.7	128.0	109.0	85.2	80.6	75.8	61.7	52.2	42.7	33.2	28.4
77.5°	104.4	85.2	66.3	56.8	52.2	42.7	37.9	28.4	23.8	18.9	14.3
80°	56.8	42.7	33.2	28.4	23.8	18.9	18.9	14.3	9.5	9.5	4.8
82.5°	18.9	14.3	9.5	4.8	4.8	4.8	4.8	4.8	4.8	0.0	4.8
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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	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°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	3948.8	3896.6	3910.9	3910.9	3901.4	3901.4	3892.0	3877.7	3882.5	3853.9	3792.4
5°	3906.1	3839.8	3830.3	3839.8	3801.9	3792.4	3773.5	3801.9	3716.4	3749.7	3711.8
7.5°	3782.9	3721.3	3707.0	3740.2	3692.9	3664.3	3659.6	3697.5	3621.7	3583.8	3541.1
10°	3645.3	3621.7	3579.0	3555.2	3541.1	3545.8	3507.9	3460.5	3446.2	3436.8	3398.9
12.5°	3522.2	3470.0	3432.1	3403.7	3394.2	3394.2	3332.6	3323.1	3280.4	3270.9	3214.1
15°	3375.1	3313.6	3289.9	3252.0	3218.7	3237.7	3166.5	3147.6	3133.5	3071.8	3081.3
17.5°	3247.1	3180.8	3124.0	3100.2	3071.8	3043.4	2976.9	2991.2	2958.0	2958.0	2872.7
20°	3081.3	3010.2	2967.4	2920.1	2920.1	2882.2	2834.8	2839.5	2796.8	2754.2	2678.3
22.5°	2906.0	2830.0	2777.8	2758.9	2711.5	2702.0	2645.2	2630.9	2574.1	2578.7	2512.4
25°	2721.0	2645.2	2574.1	2578.7	2536.2	2517.3	2484.0	2417.7	2393.9	2365.5	2346.6
27.5°	2503.0	2450.8	2389.1	2384.5	2303.9	2308.5	2266.0	2247.0	2190.0	2204.3	2161.6
30°	2303.9	2228.1	2171.1	2157.0	2123.7	2114.2	2047.9	2019.3	2029.0	1990.9	1967.3
32.5°	2099.9	1986.3	1962.5	1934.1	1915.1	1891.4	1844.0	1863.0	1820.2	1829.7	1791.8
35°	1829.7	1782.4	1720.7	1720.7	1701.8	1682.8	1649.8	1668.7	1626.0	1607.0	1569.2
37.5°	1602.2	1559.7	1498.0	1517.0	1483.7	1455.3	1426.9	1431.5	1393.6	1389.0	1350.9
40°	1355.8	1332.0	1289.5	1289.5	1265.7	1265.7	1251.4	1237.3	1213.5	1185.1	1142.4
42.5°	1123.4	1104.5	1085.5	1090.4	1057.1	1085.5	1047.6	1071.4	995.5	990.8	962.2
45°	952.7	910.2	914.9	895.9	877.0	886.4	853.2	862.7	820.1	810.7	782.3
47.5°	772.8	758.5	730.1	720.6	720.6	706.3	692.2	687.4	668.4	644.6	606.7
50°	635.2	583.2	573.5	559.4	549.9	549.9	531.0	502.6	507.2	483.6	445.5
52.5°	497.7	455.0	436.1	431.4	412.5	403.0	379.2	360.3	346.0	336.5	312.9
55°	383.9	346.0	322.4	322.4	294.0	294.0	260.8	246.5	227.5	208.6	194.4
57.5°	289.2	270.2	246.5	227.5	218.0	194.4	175.3	151.7	137.4	109.0	90.1
60°	218.0	199.1	175.3	161.2	151.7	128.0	104.4	85.2	52.2	42.7	37.9
62.5°	161.2	142.3	118.5	109.0	99.5	80.6	56.8	28.4	14.3	14.3	14.3
65°	118.5	94.7	75.8	66.3	56.8	42.7	18.9	9.5	4.8	4.8	4.8
67.5°	80.6	61.7	42.7	37.9	28.4	14.3	4.8	4.8	4.8	4.8	4.8
70°	52.2	37.9	18.9	14.3	9.5	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	33.2	18.9	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.8	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	4.8	4.8	4.8
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 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	3858.7	3825.5	3844.4	3801.9	3820.8	3853.9	3830.3	3839.8
5°	3725.9	3707.0	3683.4	3621.7	3669.1	3707.0	3688.0	3683.4
7.5°	3583.8	3517.4	3550.6	3531.7	3522.2	3560.1	3517.4	3564.7
10°	3436.8	3389.4	3384.8	3351.5	3351.5	3379.9	3384.8	3356.2
12.5°	3218.7	3195.1	3195.1	3190.3	3185.5	3214.1	3218.7	3204.6
15°	3062.3	3052.9	3029.1	3024.5	2996.0	3038.6	3043.4	3038.6
17.5°	2872.7	2877.4	2853.8	2853.8	2872.7	2886.8	2848.9	2886.8
20°	2744.8	2721.0	2711.5	2668.8	2692.6	2716.3	2716.3	2721.0
22.5°	2559.8	2521.9	2536.2	2512.4	2498.1	2531.4	2531.4	2545.7
25°	2351.2	2351.2	2360.7	2346.6	2356.0	2375.0	2360.7	2393.9
27.5°	2152.1	2171.1	2171.1	2152.1	2161.6	2218.4	2242.2	2204.3
30°	1967.3	1972.0	1986.3	1976.8	2005.2	2024.2	2019.3	2047.9
32.5°	1758.8	1782.4	1791.8	1777.7	1787.2	1829.7	1806.1	1801.3
35°	1597.6	1554.9	1550.2	1554.9	1573.8	1583.3	1573.8	1607.0
37.5°	1365.2	1350.9	1332.0	1336.8	1350.9	1370.1	1379.5	1403.1
40°	1142.4	1123.4	1123.4	1118.8	1104.5	1156.7	1156.7	1156.7
42.5°	948.1	943.3	919.7	919.7	938.6	952.7	943.3	976.5
45°	777.4	758.5	744.2	744.2	758.5	758.5	772.8	768.0
47.5°	611.6	592.6	597.3	583.2	597.3	616.2	592.6	597.3
50°	459.8	459.8	450.4	459.8	455.0	459.8	450.4	440.9
52.5°	312.9	355.5	360.3	341.4	298.6	260.8	237.0	255.9
55°	180.1	161.2	161.2	156.4	146.9	142.3	128.0	142.3
57.5°	90.1	80.6	80.6	80.6	75.8	71.1	61.7	61.7
60°	37.9	33.2	33.2	28.4	23.8	18.9	14.3	18.9
62.5°	14.3	9.5	9.5	9.5	9.5	9.5	9.5	9.5
65°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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)