

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: **LD4C100D010 EX4C1009027 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: LD4C100D010 EX4C1009027 4LBSQLWWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

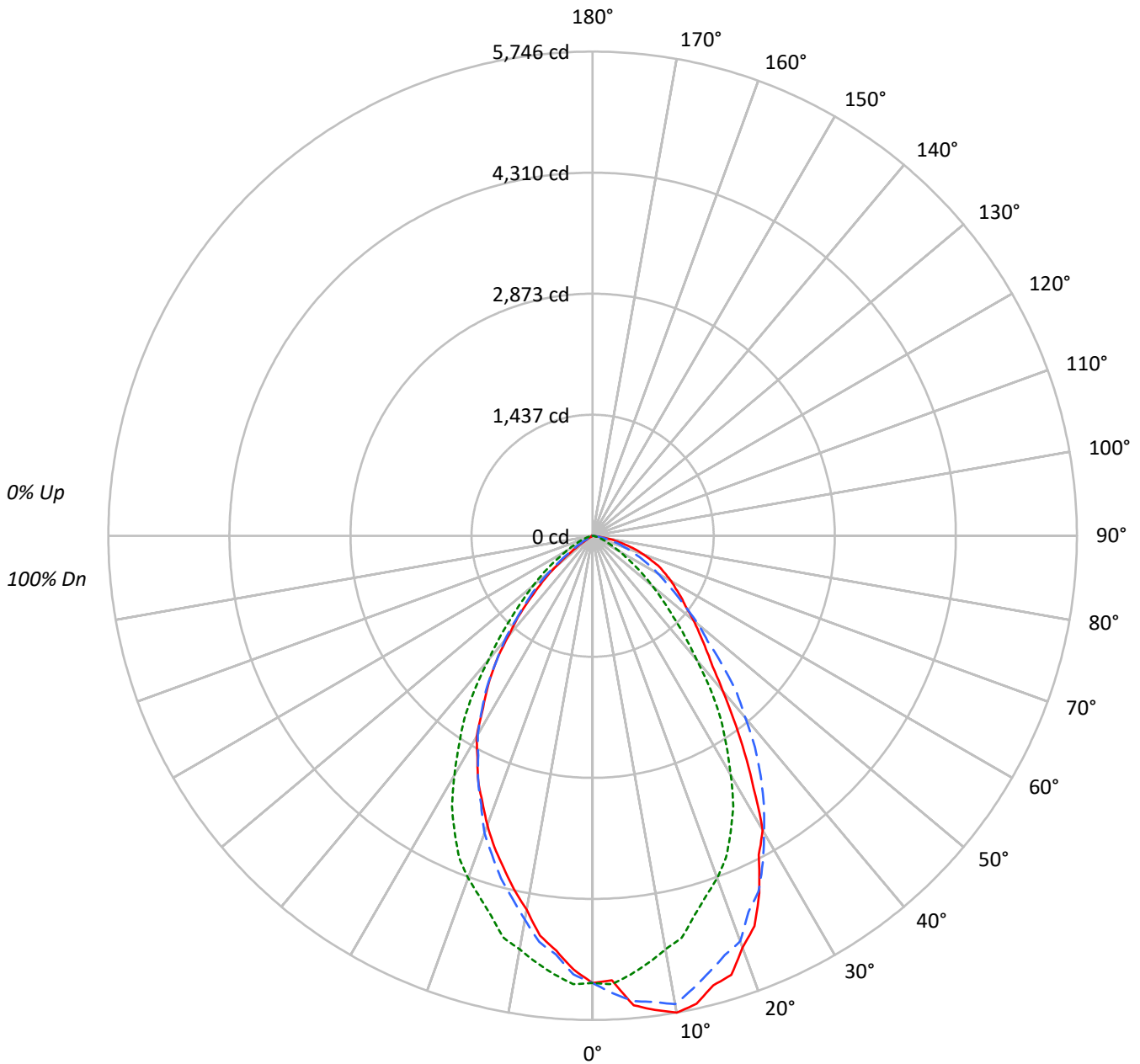
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7607.0 lumens
Efficiency: N/A
Efficacy: 66.5 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): 114.4
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	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°	512047	512047	512047
5°	541753	506012	478892
10°	562988	488172	441398
15°	551727	465909	407442
20°	533830	443645	375044
25°	497941	412558	342121
30°	449496	365110	306282
35°	370265	312559	254099
40°	302172	241259	195561
45°	259621	183219	140659
50°	234967	139467	88835
55°	216234	100614	32131
60°	207548	68739	4902
65°	200458	46507	1484
70°	179481	32274	1834
75°	147109	16627	0
80°	91961	7057	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.2	6.5
10°-20°	1339.6	17.6
20°-30°	1788.8	23.5
30°-40°	1698.1	22.3
40°-50°	1173.8	15.4
50°-60°	648.5	8.5
60°-70°	322.1	4.2
70°-80°	126.9	1.7
80°-90°	12.1	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°	3625.6	47.7
0°-40°	5323.7	70.0
0°-60°	7146.0	93.9
0°-90°	7607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7607.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5307	5307	5307	5307	5307	
5°	5593	5542	5224	4989	4944	535
15°	5523	5358	4664	4206	4079	1562
25°	4677	4658	3875	3214	3214	2132
35°	3143	3474	2654	2183	2157	1969
45°	1903	2183	1343	1101	1031	1484
55°	1285	1209	598	305	191	1157
65°	878	636	204	6	6	852
75°	395	242	45	0	0	421
85°	0	6	0	0	0	36
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°	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8
2.5°	5281.4	5427.7	5440.4	5427.7	5446.9	5440.4	5472.4	5440.4	5478.8	5421.5	5434.2
5°	5593.3	5535.9	5656.8	5593.3	5593.3	5587.0	5567.8	5561.4	5587.0	5504.3	5542.4
7.5°	5676.0	5758.8	5867.0	5733.4	5739.6	5739.6	5701.5	5688.7	5688.7	5535.9	5580.5
10°	5746.1	5695.0	5752.3	5701.5	5746.1	5739.6	5765.0	5682.3	5739.6	5650.6	5644.1
12.5°	5688.7	5669.5	5746.1	5663.3	5637.9	5644.1	5612.5	5593.3	5612.5	5510.5	5504.3
15°	5523.2	5542.4	5656.8	5567.8	5555.1	5542.4	5504.3	5440.4	5491.5	5351.4	5357.9
17.5°	5466.1	5434.2	5453.4	5376.9	5396.1	5383.4	5376.9	5319.8	5306.8	5217.8	5217.8
20°	5198.9	5268.7	5268.7	5217.8	5217.8	5211.6	5128.8	5179.7	5122.3	5096.9	5122.3
22.5°	5014.1	5020.6	5020.6	4976.0	4982.5	4957.1	4912.4	4880.5	4912.4	4880.5	4829.7
25°	4677.1	4689.8	4766.1	4683.3	4670.6	4696.0	4657.9	4638.7	4632.5	4556.2	4657.9
27.5°	4269.7	4396.9	4390.6	4358.7	4396.9	4346.0	4327.1	4333.3	4352.5	4346.0	4371.4
30°	4034.4	4053.3	4072.5	4047.1	4053.3	4034.4	4034.4	4040.6	4091.5	4072.5	4066.1
32.5°	3557.0	3620.6	3671.7	3671.7	3677.9	3697.1	3690.6	3824.2	3856.1	3792.6	3779.9
35°	3143.4	3188.0	3232.4	3238.9	3321.7	3327.9	3334.4	3372.5	3461.5	3480.7	3474.2
37.5°	2749.0	2793.4	2806.1	2863.4	2908.1	2952.4	3003.5	3054.4	3130.7	3194.3	3162.6
40°	2399.0	2417.9	2449.9	2475.3	2564.3	2564.3	2589.7	2691.7	2774.4	2825.3	2818.8
42.5°	2106.3	2112.6	2138.0	2182.6	2265.4	2246.2	2265.4	2335.4	2456.1	2462.6	2532.6
45°	1902.6	1896.2	1915.4	1921.6	1972.7	1998.1	2010.8	2061.7	2163.4	2176.1	2182.6
47.5°	1718.2	1711.7	1743.6	1756.3	1775.3	1800.7	1800.7	1807.2	1845.3	1877.2	1851.8
50°	1565.3	1565.3	1565.3	1578.1	1610.0	1603.5	1610.0	1635.4	1654.3	1641.6	1635.4
52.5°	1399.8	1425.2	1444.4	1450.9	1457.1	1457.1	1463.6	1450.9	1444.4	1425.2	1387.1
55°	1285.4	1310.8	1310.8	1310.8	1310.8	1336.2	1304.6	1310.8	1310.8	1260.0	1209.1
57.5°	1171.0	1196.4	1215.3	1189.9	1215.3	1189.9	1177.2	1171.0	1158.0	1107.1	1030.8
60°	1075.5	1088.2	1081.7	1075.5	1088.2	1069.0	1056.3	1030.8	1018.1	948.1	897.2
62.5°	967.3	973.5	980.0	967.3	954.6	948.1	922.7	884.5	859.1	801.7	757.1
65°	878.0	859.1	852.6	846.4	833.7	814.5	795.5	750.9	731.7	680.8	636.2
67.5°	744.4	738.2	750.9	731.7	700.0	700.0	680.8	642.7	598.1	566.4	521.8
70°	636.2	630.0	617.3	598.1	591.8	566.4	566.4	521.8	509.1	451.7	413.6
72.5°	521.8	521.8	502.6	483.6	464.4	451.7	445.5	413.6	394.6	362.7	330.8
75°	394.6	394.6	388.2	369.0	356.2	343.5	337.3	311.9	292.7	261.0	241.8
77.5°	280.0	280.0	254.5	241.8	248.1	235.3	222.6	216.4	209.9	191.0	165.5
80°	165.5	159.1	140.1	146.3	140.1	140.1	133.6	127.1	114.4	101.7	89.0
82.5°	44.6	50.9	50.9	50.9	57.3	44.6	44.6	44.6	50.9	50.9	31.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	6.5
87.5°	6.5	12.7	25.4	25.4	25.4	25.4	25.4	19.2	19.2	19.2	12.7
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°	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8
2.5°	5370.6	5364.2	5370.6	5326.0	5427.7	5351.4	5338.7	5326.0	5370.6	5326.0	5262.4
5°	5485.1	5421.5	5402.3	5383.4	5440.4	5351.4	5332.5	5338.7	5306.8	5224.3	5230.5
7.5°	5523.2	5466.1	5408.8	5287.9	5338.7	5319.8	5268.7	5230.5	5179.7	5109.6	5096.9
10°	5535.9	5472.4	5389.6	5351.4	5275.2	5249.7	5230.5	5167.0	5103.4	4982.5	4950.6
12.5°	5497.8	5421.5	5319.8	5287.9	5230.5	5147.8	5103.4	5039.6	4982.5	4887.0	4816.9
15°	5332.5	5268.7	5237.0	5128.8	5103.4	5052.3	4963.3	4874.3	4791.5	4664.1	4626.0
17.5°	5141.5	5116.1	5084.2	5001.4	4995.2	4944.3	4861.6	4785.0	4677.1	4479.6	4416.1
20°	4944.3	4944.3	4842.4	4810.7	4874.3	4772.3	4708.8	4638.7	4416.1	4320.6	4206.2
22.5°	4798.0	4727.9	4670.6	4619.8	4626.0	4562.4	4473.4	4333.3	4250.5	4136.1	4002.5
25°	4511.6	4537.0	4409.8	4390.6	4409.8	4263.3	4218.9	4104.2	3983.3	3875.1	3773.4
27.5°	4333.3	4263.3	4180.7	4110.7	4110.7	4053.3	3926.2	3900.8	3716.0	3614.3	3486.9
30°	4066.1	4015.2	3945.1	3843.4	3830.7	3786.1	3684.4	3620.6	3429.8	3277.0	3207.0
32.5°	3728.8	3709.8	3652.5	3538.0	3499.9	3448.8	3321.7	3213.5	3124.5	2952.4	2869.9
35°	3486.9	3417.1	3296.2	3200.7	3168.8	3079.8	2977.9	2901.6	2806.1	2653.5	2545.3
37.5°	3124.5	3054.4	2939.7	2825.3	2825.3	2736.3	2596.2	2519.9	2386.3	2297.0	2208.0
40°	2806.1	2717.1	2602.7	2469.1	2449.9	2322.5	2265.4	2138.0	2055.2	1915.4	1902.6
42.5°	2449.9	2367.1	2265.4	2163.4	2087.1	2023.6	1877.2	1781.7	1692.7	1622.7	1603.5
45°	2125.3	2017.1	1928.1	1800.7	1724.4	1648.1	1552.6	1489.1	1419.0	1342.7	1298.1
47.5°	1845.3	1756.3	1628.9	1514.5	1438.2	1399.8	1291.6	1221.8	1164.5	1113.6	1081.7
50°	1559.1	1450.9	1380.9	1253.5	1240.8	1151.8	1062.8	1005.4	973.5	929.1	884.5
52.5°	1342.7	1240.8	1145.3	1050.0	998.9	967.3	884.5	827.2	782.8	750.9	725.5
55°	1132.6	1043.6	967.3	871.8	839.9	795.5	700.0	687.3	642.7	598.1	566.4
57.5°	973.5	890.7	801.7	738.2	680.8	649.2	572.6	521.8	496.4	458.2	426.3
60°	827.2	738.2	668.1	591.8	566.4	521.8	464.4	420.1	388.2	356.2	324.6
62.5°	693.5	617.3	541.0	477.2	439.0	413.6	369.0	330.8	299.2	273.7	248.1
65°	572.6	502.6	439.0	375.4	356.2	324.6	292.7	261.0	235.3	203.7	178.2
67.5°	470.9	407.4	343.5	299.2	280.0	267.2	229.1	197.2	178.2	159.1	133.6
70°	369.0	324.6	273.7	235.3	216.4	197.2	171.8	152.8	127.1	114.4	95.5
72.5°	286.4	248.1	203.7	171.8	159.1	146.3	120.9	101.7	89.0	76.3	63.6
75°	203.7	171.8	146.3	114.4	108.2	101.7	82.8	70.1	57.3	44.6	38.1
77.5°	140.1	114.4	89.0	76.3	70.1	57.3	50.9	38.1	31.9	25.4	19.2
80°	76.3	57.3	44.6	38.1	31.9	25.4	25.4	19.2	12.7	12.7	6.5
82.5°	25.4	19.2	12.7	6.5	6.5	6.5	6.5	6.5	6.5	0.0	6.5
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°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	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°	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8
2.5°	5300.6	5230.5	5249.7	5249.7	5237.0	5237.0	5224.3	5205.1	5211.6	5173.2	5090.7
5°	5243.2	5154.2	5141.5	5154.2	5103.4	5090.7	5065.2	5103.4	4988.7	5033.3	4982.5
7.5°	5078.0	4995.2	4976.0	5020.6	4957.1	4918.7	4912.4	4963.3	4861.6	4810.7	4753.4
10°	4893.2	4861.6	4804.2	4772.3	4753.4	4759.6	4708.8	4645.2	4626.0	4613.3	4562.4
12.5°	4727.9	4657.9	4607.0	4568.9	4556.2	4556.2	4473.4	4460.7	4403.4	4390.6	4314.4
15°	4530.5	4448.0	4416.1	4365.2	4320.6	4346.0	4250.5	4225.1	4206.2	4123.4	4136.1
17.5°	4358.7	4269.7	4193.5	4161.5	4123.4	4085.3	3996.0	4015.2	3970.6	3970.6	3856.1
20°	4136.1	4040.6	3983.3	3919.7	3919.7	3868.9	3805.3	3811.5	3754.2	3697.1	3595.1
22.5°	3900.8	3798.8	3728.8	3703.3	3639.8	3627.0	3550.8	3531.6	3455.3	3461.5	3372.5
25°	3652.5	3550.8	3455.3	3461.5	3404.4	3379.0	3334.4	3245.4	3213.5	3175.3	3149.9
27.5°	3359.8	3289.7	3207.0	3200.7	3092.5	3098.8	3041.7	3016.3	2939.7	2958.9	2901.6
30°	3092.5	2990.8	2914.3	2895.4	2850.7	2838.0	2749.0	2710.6	2723.6	2672.5	2640.8
32.5°	2818.8	2666.2	2634.3	2596.2	2570.8	2538.9	2475.3	2500.7	2443.4	2456.1	2405.2
35°	2456.1	2392.5	2309.8	2309.8	2284.3	2258.9	2214.5	2239.9	2182.6	2157.2	2106.3
37.5°	2150.7	2093.6	2010.8	2036.3	1991.6	1953.5	1915.4	1921.6	1870.7	1864.5	1813.4
40°	1819.9	1788.0	1730.9	1730.9	1699.0	1699.0	1679.8	1660.8	1628.9	1590.8	1533.4
42.5°	1508.0	1482.6	1457.1	1463.6	1419.0	1457.1	1406.3	1438.2	1336.2	1330.0	1291.6
45°	1278.9	1221.8	1228.0	1202.6	1177.2	1189.9	1145.3	1158.0	1100.9	1088.2	1050.0
47.5°	1037.3	1018.1	980.0	967.3	967.3	948.1	929.1	922.7	897.2	865.3	814.5
50°	852.6	782.8	769.8	750.9	738.2	738.2	712.7	674.6	680.8	649.2	598.1
52.5°	668.1	610.8	585.4	579.1	553.7	541.0	509.1	483.6	464.4	451.7	420.1
55°	515.3	464.4	432.8	432.8	394.6	394.6	350.0	330.8	305.4	280.0	261.0
57.5°	388.2	362.7	330.8	305.4	292.7	261.0	235.3	203.7	184.5	146.3	120.9
60°	292.7	267.2	235.3	216.4	203.7	171.8	140.1	114.4	70.1	57.3	50.9
62.5°	216.4	191.0	159.1	146.3	133.6	108.2	76.3	38.1	19.2	19.2	19.2
65°	159.1	127.1	101.7	89.0	76.3	57.3	25.4	12.7	6.5	6.5	6.5
67.5°	108.2	82.8	57.3	50.9	38.1	19.2	6.5	6.5	6.5	6.5	6.5
70°	70.1	50.9	25.4	19.2	12.7	6.5	6.5	6.5	6.5	6.5	6.5
72.5°	44.6	25.4	12.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.5	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	6.5	6.5	6.5
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: LD4C100D010 EX4C1009027 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8	5306.8
2.5°	5179.7	5135.1	5160.5	5103.4	5128.8	5173.2	5141.5	5154.2
5°	5001.4	4976.0	4944.3	4861.6	4925.1	4976.0	4950.6	4944.3
7.5°	4810.7	4721.5	4766.1	4740.7	4727.9	4778.8	4721.5	4785.0
10°	4613.3	4549.7	4543.5	4498.8	4498.8	4537.0	4543.5	4505.1
12.5°	4320.6	4288.9	4288.9	4282.4	4276.0	4314.4	4320.6	4301.6
15°	4110.7	4098.0	4066.1	4059.8	4021.7	4078.8	4085.3	4078.8
17.5°	3856.1	3862.4	3830.7	3830.7	3856.1	3875.1	3824.2	3875.1
20°	3684.4	3652.5	3639.8	3582.4	3614.3	3646.2	3646.2	3652.5
22.5°	3436.1	3385.2	3404.4	3372.5	3353.3	3397.9	3397.9	3417.1
25°	3156.1	3156.1	3168.8	3149.9	3162.6	3188.0	3168.8	3213.5
27.5°	2888.9	2914.3	2914.3	2888.9	2901.6	2977.9	3009.8	2958.9
30°	2640.8	2647.1	2666.2	2653.5	2691.7	2717.1	2710.6	2749.0
32.5°	2360.9	2392.5	2405.2	2386.3	2399.0	2456.1	2424.4	2417.9
35°	2144.5	2087.1	2080.9	2087.1	2112.6	2125.3	2112.6	2157.2
37.5°	1832.6	1813.4	1788.0	1794.5	1813.4	1839.1	1851.8	1883.5
40°	1533.4	1508.0	1508.0	1501.8	1482.6	1552.6	1552.6	1552.6
42.5°	1272.7	1266.2	1234.5	1234.5	1260.0	1278.9	1266.2	1310.8
45°	1043.6	1018.1	998.9	998.9	1018.1	1018.1	1037.3	1030.8
47.5°	820.9	795.5	801.7	782.8	801.7	827.2	795.5	801.7
50°	617.3	617.3	604.5	617.3	610.8	617.3	604.5	591.8
52.5°	420.1	477.2	483.6	458.2	400.9	350.0	318.1	343.5
55°	241.8	216.4	216.4	209.9	197.2	191.0	171.8	191.0
57.5°	120.9	108.2	108.2	108.2	101.7	95.5	82.8	82.8
60°	50.9	44.6	44.6	38.1	31.9	25.4	19.2	25.4
62.5°	19.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7
65°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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)