

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: **LD4C90D010 EX4C909050 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: LD4C90D010 EX4C909050 4LBSQLWWLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

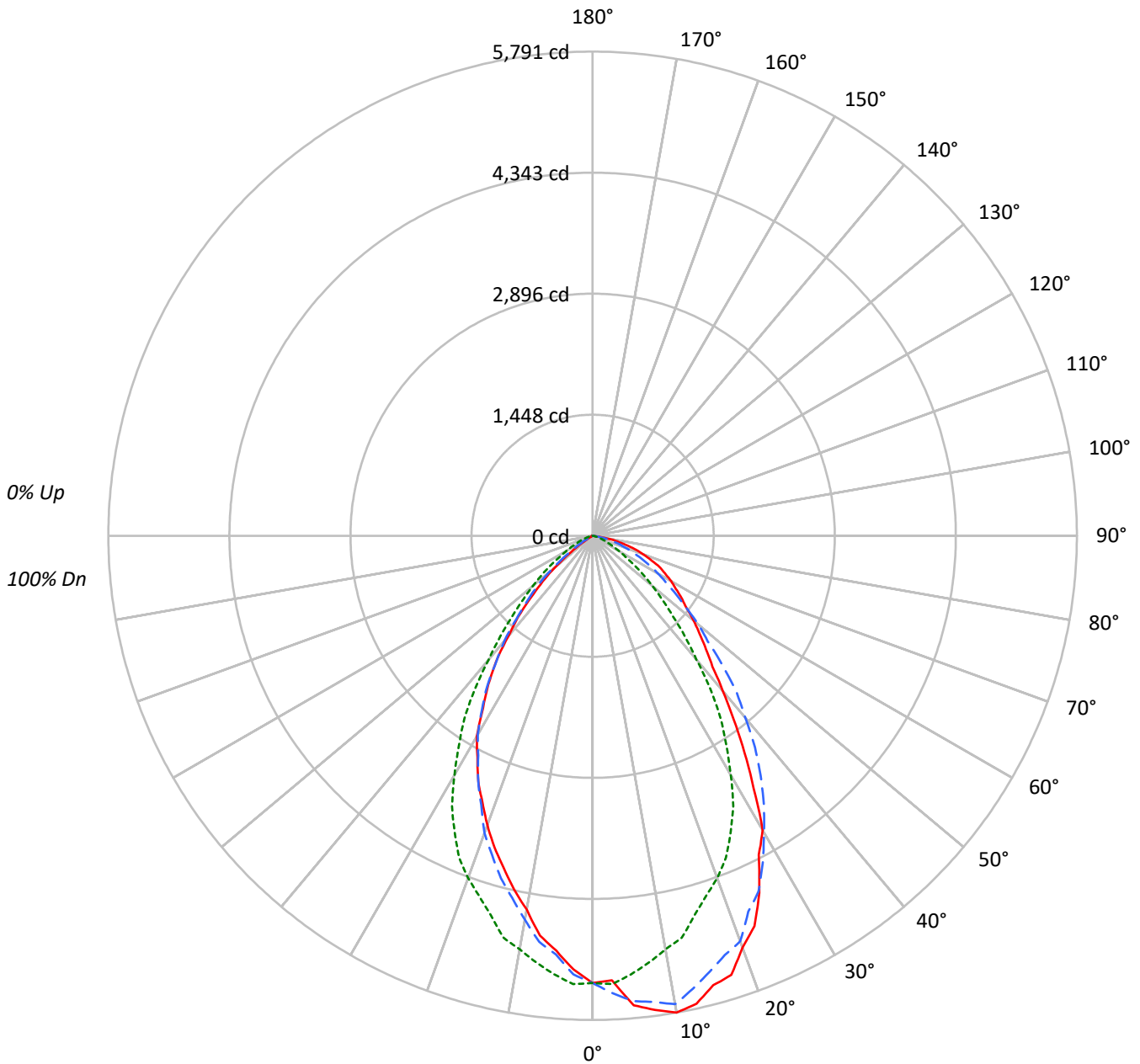
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7666.0 lumens
Efficiency: N/A
Efficacy: 78.9 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): 97.1
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°	516023	516023	516023
5°	545947	509935	482612
10°	567348	491954	444817
15°	556003	469525	410599
20°	537968	447085	377949
25°	501806	415762	344772
30°	452983	367939	308655
35°	373139	314985	256066
40°	304514	243123	197085
45°	261641	184638	141750
50°	236799	140548	89526
55°	217916	101388	32366
60°	209149	69279	4940
65°	202011	46872	1484
70°	180864	32528	1834
75°	148264	16776	0
80°	92684	7112	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.1	6.5
10°-20°	1350.0	17.6
20°-30°	1802.7	23.5
30°-40°	1711.2	22.3
40°-50°	1182.9	15.4
50°-60°	653.6	8.5
60°-70°	324.6	4.2
70°-80°	127.9	1.7
80°-90°	12.2	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°	3653.7	47.7
0°-40°	5364.9	70.0
0°-60°	7201.4	93.9
0°-90°	7666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7666.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5348	5348	5348	5348	5348	
5°	5637	5585	5265	5027	4983	540
15°	5566	5400	4700	4239	4110	1575
25°	4713	4694	3905	3238	3238	2149
35°	3168	3501	2674	2200	2174	1985
45°	1917	2200	1353	1109	1039	1496
55°	1295	1218	603	308	192	1166
65°	885	641	205	6	6	859
75°	398	244	45	0	0	424
85°	0	6	0	0	0	37
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°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5322.4	5469.8	5482.6	5469.8	5489.2	5482.6	5514.8	5482.6	5521.3	5463.5	5476.4
5°	5636.6	5578.9	5700.7	5636.6	5636.6	5630.4	5611.0	5604.5	5630.4	5547.0	5585.4
7.5°	5720.1	5803.5	5912.5	5777.8	5784.1	5784.1	5745.7	5732.9	5732.9	5578.9	5623.8
10°	5790.6	5739.1	5796.9	5745.7	5790.6	5784.1	5809.7	5726.3	5784.1	5694.4	5687.9
12.5°	5732.9	5713.5	5790.6	5707.2	5681.6	5687.9	5656.0	5636.6	5656.0	5553.2	5547.0
15°	5566.0	5585.4	5700.7	5611.0	5598.2	5585.4	5547.0	5482.6	5534.1	5392.9	5399.5
17.5°	5508.5	5476.4	5495.7	5418.6	5437.9	5425.1	5418.6	5361.0	5348.0	5258.3	5258.3
20°	5239.2	5309.5	5309.5	5258.3	5258.3	5252.0	5168.6	5219.8	5162.1	5136.4	5162.1
22.5°	5053.0	5059.6	5059.6	5014.6	5021.1	4995.5	4950.5	4918.4	4950.5	4918.4	4867.1
25°	4713.4	4726.2	4803.1	4719.6	4706.8	4732.5	4694.0	4674.7	4668.4	4591.5	4694.0
27.5°	4302.9	4431.0	4424.7	4392.5	4431.0	4379.7	4360.6	4366.9	4386.3	4379.7	4405.4
30°	4065.7	4084.8	4104.1	4078.5	4084.8	4065.7	4065.7	4072.0	4123.2	4104.1	4097.6
32.5°	3584.6	3648.6	3700.1	3700.1	3706.4	3725.8	3719.2	3853.9	3886.1	3822.0	3809.2
35°	3167.8	3212.8	3257.5	3264.0	3347.4	3353.7	3360.2	3398.7	3488.4	3507.7	3501.2
37.5°	2770.3	2815.1	2827.9	2885.7	2930.6	2975.3	3026.8	3078.1	3155.0	3219.0	3187.1
40°	2417.6	2436.7	2468.9	2494.5	2584.2	2584.2	2609.8	2712.6	2796.0	2847.2	2840.7
42.5°	2122.7	2128.9	2154.6	2199.5	2282.9	2263.6	2282.9	2353.5	2475.1	2481.7	2552.3
45°	1917.4	1910.9	1930.2	1936.5	1988.0	2013.6	2026.4	2077.7	2180.2	2193.0	2199.5
47.5°	1731.5	1725.0	1757.1	1769.9	1789.0	1814.6	1814.6	1821.2	1859.6	1891.8	1866.2
50°	1577.5	1577.5	1577.5	1590.3	1622.5	1615.9	1622.5	1648.1	1667.2	1654.4	1648.1
52.5°	1410.7	1436.3	1455.6	1462.2	1468.5	1468.5	1475.0	1462.2	1455.6	1436.3	1397.9
55°	1295.4	1321.0	1321.0	1321.0	1321.0	1346.6	1314.7	1321.0	1321.0	1269.7	1218.5
57.5°	1180.0	1205.7	1224.8	1199.1	1224.8	1199.1	1186.3	1180.0	1167.0	1115.7	1038.8
60°	1083.8	1096.6	1090.1	1083.8	1096.6	1077.3	1064.5	1038.8	1026.0	955.4	904.2
62.5°	974.8	981.1	987.6	974.8	962.0	955.4	929.8	891.4	865.7	808.0	763.0
65°	884.8	865.7	859.2	852.9	840.1	820.8	801.7	756.7	737.4	686.1	641.1
67.5°	750.2	743.9	756.7	737.4	705.5	705.5	686.1	647.7	602.7	570.8	525.8
70°	641.1	634.9	622.1	602.7	596.4	570.8	570.8	525.8	513.0	455.2	416.8
72.5°	525.8	525.8	506.5	487.4	468.0	455.2	449.0	416.8	397.7	365.5	333.4
75°	397.7	397.7	391.2	371.8	359.0	346.2	339.9	314.3	294.9	263.0	243.7
77.5°	282.1	282.1	256.5	243.7	250.0	237.2	224.4	218.1	211.5	192.4	166.8
80°	166.8	160.3	141.2	147.5	141.2	141.2	134.7	128.1	115.3	102.5	89.7
82.5°	45.0	51.3	51.3	51.3	57.8	45.0	45.0	45.0	51.3	51.3	32.2
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	12.8	25.6	25.6	25.6	25.6	25.6	19.3	19.3	19.3	12.8
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°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5412.3	5405.8	5412.3	5367.3	5469.8	5392.9	5380.1	5367.3	5412.3	5367.3	5303.3
5°	5527.6	5463.5	5444.2	5425.1	5482.6	5392.9	5373.9	5380.1	5348.0	5264.8	5271.1
7.5°	5566.0	5508.5	5450.7	5328.9	5380.1	5361.0	5309.5	5271.1	5219.8	5149.3	5136.4
10°	5578.9	5514.8	5431.4	5392.9	5316.1	5290.4	5271.1	5207.0	5143.0	5021.1	4989.0
12.5°	5540.4	5463.5	5361.0	5328.9	5271.1	5187.7	5143.0	5078.7	5021.1	4924.9	4854.3
15°	5373.9	5309.5	5277.6	5168.6	5143.0	5091.5	5001.8	4912.1	4828.7	4700.3	4661.9
17.5°	5181.4	5155.8	5123.6	5040.2	5033.9	4982.7	4899.3	4822.1	4713.4	4514.4	4450.3
20°	4982.7	4982.7	4879.9	4848.0	4912.1	4809.3	4745.3	4674.7	4450.3	4354.1	4238.8
22.5°	4835.2	4764.6	4706.8	4655.6	4661.9	4597.8	4508.1	4366.9	4283.5	4168.2	4033.5
25°	4546.5	4572.2	4444.0	4424.7	4444.0	4296.3	4251.6	4136.0	4014.2	3905.2	3802.6
27.5°	4366.9	4296.3	4213.2	4142.6	4142.6	4084.8	3956.7	3931.0	3744.9	3642.4	3514.0
30°	4097.6	4046.3	3975.7	3873.2	3860.4	3815.5	3713.0	3648.6	3456.5	3302.4	3231.8
32.5°	3757.7	3738.6	3680.8	3565.5	3527.0	3475.5	3347.4	3238.4	3148.7	2975.3	2892.2
35°	3514.0	3443.6	3321.8	3225.6	3193.4	3103.7	3001.0	2924.1	2827.9	2674.1	2565.1
37.5°	3148.7	3078.1	2962.5	2847.2	2847.2	2757.5	2616.3	2539.5	2404.8	2314.9	2225.2
40°	2827.9	2738.2	2622.9	2488.2	2468.9	2340.5	2282.9	2154.6	2071.2	1930.2	1917.4
42.5°	2468.9	2385.4	2282.9	2180.2	2103.3	2039.3	1891.8	1795.6	1705.9	1635.3	1615.9
45°	2141.8	2032.7	1943.0	1814.6	1737.8	1660.9	1564.7	1500.6	1430.0	1353.1	1308.2
47.5°	1859.6	1769.9	1641.6	1526.2	1449.4	1410.7	1301.6	1231.3	1173.5	1122.3	1090.1
50°	1571.2	1462.2	1391.6	1263.2	1250.4	1160.7	1071.0	1013.2	981.1	936.3	891.4
52.5°	1353.1	1250.4	1154.2	1058.2	1006.7	974.8	891.4	833.6	788.9	756.7	731.1
55°	1141.3	1051.7	974.8	878.6	846.4	801.7	705.5	692.6	647.7	602.7	570.8
57.5°	981.1	897.7	808.0	743.9	686.1	654.2	577.1	525.8	500.2	461.8	429.6
60°	833.6	743.9	673.3	596.4	570.8	525.8	468.0	423.3	391.2	359.0	327.1
62.5°	698.9	622.1	545.2	480.9	442.4	416.8	371.8	333.4	301.5	275.9	250.0
65°	577.1	506.5	442.4	378.4	359.0	327.1	294.9	263.0	237.2	205.3	179.6
67.5°	474.6	410.5	346.2	301.5	282.1	269.3	230.9	198.7	179.6	160.3	134.7
70°	371.8	327.1	275.9	237.2	218.1	198.7	173.1	154.0	128.1	115.3	96.2
72.5°	288.7	250.0	205.3	173.1	160.3	147.5	121.8	102.5	89.7	76.9	64.1
75°	205.3	173.1	147.5	115.3	109.0	102.5	83.4	70.6	57.8	45.0	38.4
77.5°	141.2	115.3	89.7	76.9	70.6	57.8	51.3	38.4	32.2	25.6	19.3
80°	76.9	57.8	45.0	38.4	32.2	25.6	25.6	19.3	12.8	12.8	6.5
82.5°	25.6	19.3	12.8	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°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5341.7	5271.1	5290.4	5290.4	5277.6	5277.6	5264.8	5245.5	5252.0	5213.3	5130.2
5°	5283.9	5194.2	5181.4	5194.2	5143.0	5130.2	5104.5	5143.0	5027.4	5072.4	5021.1
7.5°	5117.3	5033.9	5014.6	5059.6	4995.5	4956.8	4950.5	5001.8	4899.3	4848.0	4790.2
10°	4931.2	4899.3	4841.5	4809.3	4790.2	4796.5	4745.3	4681.2	4661.9	4649.0	4597.8
12.5°	4764.6	4694.0	4642.8	4604.3	4591.5	4591.5	4508.1	4495.3	4437.5	4424.7	4347.8
15°	4565.6	4482.5	4450.3	4399.1	4354.1	4379.7	4283.5	4257.9	4238.8	4155.4	4168.2
17.5°	4392.5	4302.9	4226.0	4193.8	4155.4	4116.9	4027.0	4046.3	4001.4	4001.4	3886.1
20°	4168.2	4072.0	4014.2	3950.1	3950.1	3898.9	3834.8	3841.1	3783.3	3725.8	3623.0
22.5°	3931.0	3828.3	3757.7	3732.1	3668.0	3655.2	3578.3	3559.0	3482.1	3488.4	3398.7
25°	3680.8	3578.3	3482.1	3488.4	3430.8	3405.2	3360.2	3270.5	3238.4	3199.9	3174.3
27.5°	3385.9	3315.3	3231.8	3225.6	3116.5	3122.8	3065.3	3039.7	2962.5	2981.9	2924.1
30°	3116.5	3014.0	2936.9	2917.8	2872.8	2860.0	2770.3	2731.6	2744.7	2693.2	2661.3
32.5°	2840.7	2686.9	2654.8	2616.3	2590.7	2558.5	2494.5	2520.1	2462.3	2475.1	2423.9
35°	2475.1	2411.1	2327.7	2327.7	2302.0	2276.4	2231.7	2257.3	2199.5	2173.9	2122.7
37.5°	2167.4	2109.8	2026.4	2052.1	2007.1	1968.7	1930.2	1936.5	1885.2	1879.0	1827.5
40°	1834.0	1801.8	1744.3	1744.3	1712.1	1712.1	1692.8	1673.7	1641.6	1603.1	1545.3
42.5°	1519.7	1494.1	1468.5	1475.0	1430.0	1468.5	1417.2	1449.4	1346.6	1340.3	1301.6
45°	1288.8	1231.3	1237.6	1211.9	1186.3	1199.1	1154.2	1167.0	1109.4	1096.6	1058.2
47.5°	1045.4	1026.0	987.6	974.8	974.8	955.4	936.3	929.8	904.2	872.0	820.8
50°	859.2	788.9	775.8	756.7	743.9	743.9	718.3	679.8	686.1	654.2	602.7
52.5°	673.3	615.5	589.9	583.6	558.0	545.2	513.0	487.4	468.0	455.2	423.3
55°	519.3	468.0	436.1	436.1	397.7	397.7	352.7	333.4	307.8	282.1	263.0
57.5°	391.2	365.5	333.4	307.8	294.9	263.0	237.2	205.3	185.9	147.5	121.8
60°	294.9	269.3	237.2	218.1	205.3	173.1	141.2	115.3	70.6	57.8	51.3
62.5°	218.1	192.4	160.3	147.5	134.7	109.0	76.9	38.4	19.3	19.3	19.3
65°	160.3	128.1	102.5	89.7	76.9	57.8	25.6	12.8	6.5	6.5	6.5
67.5°	109.0	83.4	57.8	51.3	38.4	19.3	6.5	6.5	6.5	6.5	6.5
70°	70.6	51.3	25.6	19.3	12.8	6.5	6.5	6.5	6.5	6.5	6.5
72.5°	45.0	25.6	12.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.8	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: LD4C90D010 EX4C909050 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0	5348.0
2.5°	5219.8	5174.9	5200.5	5143.0	5168.6	5213.3	5181.4	5194.2
5°	5040.2	5014.6	4982.7	4899.3	4963.3	5014.6	4989.0	4982.7
7.5°	4848.0	4758.1	4803.1	4777.4	4764.6	4815.9	4758.1	4822.1
10°	4649.0	4585.0	4578.7	4533.7	4533.7	4572.2	4578.7	4540.0
12.5°	4354.1	4322.2	4322.2	4315.7	4309.1	4347.8	4354.1	4335.0
15°	4142.6	4129.8	4097.6	4091.3	4052.9	4110.4	4116.9	4110.4
17.5°	3886.1	3892.3	3860.4	3860.4	3886.1	3905.2	3853.9	3905.2
20°	3713.0	3680.8	3668.0	3610.2	3642.4	3674.5	3674.5	3680.8
22.5°	3462.7	3411.5	3430.8	3398.7	3379.3	3424.3	3424.3	3443.6
25°	3180.6	3180.6	3193.4	3174.3	3187.1	3212.8	3193.4	3238.4
27.5°	2911.3	2936.9	2936.9	2911.3	2924.1	3001.0	3033.1	2981.9
30°	2661.3	2667.6	2686.9	2674.1	2712.6	2738.2	2731.6	2770.3
32.5°	2379.2	2411.1	2423.9	2404.8	2417.6	2475.1	2443.2	2436.7
35°	2161.1	2103.3	2097.0	2103.3	2128.9	2141.8	2128.9	2173.9
37.5°	1846.8	1827.5	1801.8	1808.4	1827.5	1853.3	1866.2	1898.1
40°	1545.3	1519.7	1519.7	1513.4	1494.1	1564.7	1564.7	1564.7
42.5°	1282.5	1276.0	1244.1	1244.1	1269.7	1288.8	1276.0	1321.0
45°	1051.7	1026.0	1006.7	1006.7	1026.0	1026.0	1045.4	1038.8
47.5°	827.3	801.7	808.0	788.9	808.0	833.6	801.7	808.0
50°	622.1	622.1	609.2	622.1	615.5	622.1	609.2	596.4
52.5°	423.3	480.9	487.4	461.8	404.0	352.7	320.6	346.2
55°	243.7	218.1	218.1	211.5	198.7	192.4	173.1	192.4
57.5°	121.8	109.0	109.0	109.0	102.5	96.2	83.4	83.4
60°	51.3	45.0	45.0	38.4	32.2	25.6	19.3	25.6
62.5°	19.3	12.8	12.8	12.8	12.8	12.8	12.8	12.8
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)