

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 EX4C909030 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: LD4C90D010 EX4C909030 4LBSQLWWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

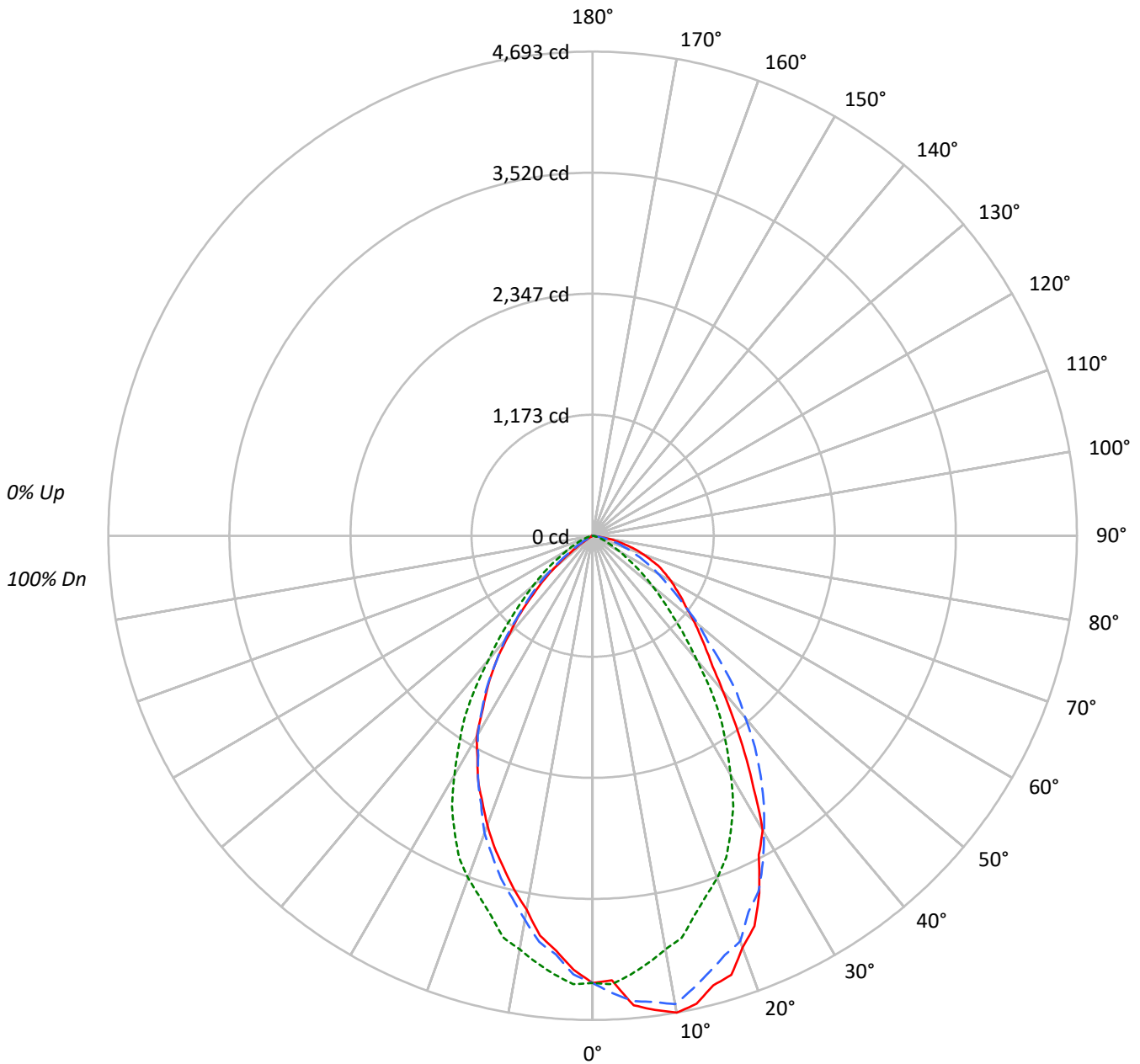
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6213.0 lumens
Efficiency: N/A
Efficacy: 64.0 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): 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°	418212	418212	418212
5°	442474	413281	391140
10°	459818	398709	360508
15°	450626	380531	332772
20°	436005	362342	306309
25°	406691	336958	279425
30°	367126	298204	250162
35°	302417	255289	207536
40°	246801	197048	159726
45°	212052	149651	114882
50°	191916	113919	72563
55°	176601	82177	26243
60°	169512	56157	4014
65°	163723	37991	1210
70°	146587	26378	1495
75°	120155	13570	0
80°	75125	5779	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	6.5
10°-20°	1094.1	17.6
20°-30°	1461.0	23.5
30°-40°	1386.9	22.3
40°-50°	958.7	15.4
50°-60°	529.7	8.5
60°-70°	263.0	4.2
70°-80°	103.6	1.7
80°-90°	9.9	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°	2961.2	47.7
0°-40°	4348.1	70.0
0°-60°	5836.5	93.9
0°-90°	6213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4334	4334	4334	4334	4334	
5°	4568	4527	4267	4074	4038	437
15°	4511	4376	3809	3435	3331	1276
25°	3820	3804	3165	2625	2625	1741
35°	2567	2838	2167	1783	1762	1608
45°	1554	1783	1097	899	842	1212
55°	1050	988	488	249	156	945
65°	717	520	166	5	5	696
75°	322	198	36	0	0	344
85°	0	5	0	0	0	30
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°	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3
2.5°	4313.6	4433.1	4443.5	4433.1	4448.8	4443.5	4469.5	4443.5	4474.8	4428.0	4438.4
5°	4568.3	4521.5	4620.2	4568.3	4568.3	4563.2	4547.5	4542.2	4563.2	4495.6	4526.7
7.5°	4635.9	4703.5	4791.9	4682.7	4687.8	4687.8	4656.7	4646.3	4646.3	4521.5	4557.9
10°	4693.1	4651.4	4698.2	4656.7	4693.1	4687.8	4708.6	4641.0	4687.8	4615.1	4609.8
12.5°	4646.3	4630.6	4693.1	4625.5	4604.7	4609.8	4584.0	4568.3	4584.0	4500.7	4495.6
15°	4511.1	4526.7	4620.2	4547.5	4537.1	4526.7	4495.6	4443.5	4485.2	4370.8	4376.1
17.5°	4464.4	4438.4	4454.1	4391.5	4407.2	4396.8	4391.5	4344.9	4334.3	4261.6	4261.6
20°	4246.2	4303.2	4303.2	4261.6	4261.6	4256.6	4189.0	4230.5	4183.7	4162.9	4183.7
22.5°	4095.3	4100.6	4100.6	4064.1	4069.4	4048.7	4012.2	3986.2	4012.2	3986.2	3944.6
25°	3820.0	3830.4	3892.7	3825.1	3814.7	3835.5	3804.3	3788.6	3783.6	3721.2	3804.3
27.5°	3487.3	3591.1	3586.0	3560.0	3591.1	3549.6	3534.1	3539.2	3554.9	3549.6	3570.4
30°	3295.1	3310.6	3326.2	3305.5	3310.6	3295.1	3295.1	3300.2	3341.7	3326.2	3320.9
32.5°	2905.2	2957.1	2998.8	2998.8	3003.9	3019.6	3014.3	3123.4	3149.5	3097.6	3087.2
35°	2567.4	2603.8	2640.1	2645.4	2713.0	2718.0	2723.3	2754.5	2827.2	2842.9	2837.6
37.5°	2245.3	2281.5	2291.9	2338.7	2375.2	2411.4	2453.1	2494.7	2557.0	2608.9	2583.0
40°	1959.4	1974.9	2000.9	2021.7	2094.4	2094.4	2115.1	2198.4	2266.0	2307.6	2302.3
42.5°	1720.3	1725.4	1746.2	1782.6	1850.2	1834.6	1850.2	1907.5	2006.0	2011.3	2068.5
45°	1554.0	1548.7	1564.4	1569.5	1611.2	1632.0	1642.4	1683.9	1767.0	1777.3	1782.6
47.5°	1403.3	1398.0	1424.1	1434.5	1449.9	1470.7	1470.7	1476.0	1507.2	1533.2	1512.4
50°	1278.5	1278.5	1278.5	1288.9	1314.9	1309.6	1314.9	1335.7	1351.2	1340.8	1335.7
52.5°	1143.3	1164.1	1179.7	1185.0	1190.1	1190.1	1195.4	1185.0	1179.7	1164.1	1132.9
55°	1049.8	1070.6	1070.6	1070.6	1070.6	1091.4	1065.5	1070.6	1070.6	1029.1	987.5
57.5°	956.4	977.1	992.6	971.8	992.6	971.8	961.5	956.4	945.8	904.2	841.9
60°	878.4	888.8	883.5	878.4	888.8	873.1	862.7	841.9	831.6	774.3	732.8
62.5°	790.0	795.1	800.4	790.0	779.6	774.3	753.6	722.4	701.7	654.8	618.4
65°	717.1	701.7	696.4	691.3	680.9	665.2	649.7	613.3	597.6	556.1	519.6
67.5°	608.0	602.9	613.3	597.6	571.7	571.7	556.1	524.9	488.5	462.6	426.2
70°	519.6	514.5	504.1	488.5	483.4	462.6	462.6	426.2	415.8	368.9	337.8
72.5°	426.2	426.2	410.5	395.0	379.3	368.9	363.9	337.8	322.3	296.3	270.2
75°	322.3	322.3	317.0	301.3	291.0	280.6	275.5	254.7	239.0	213.2	197.5
77.5°	228.7	228.7	207.9	197.5	202.6	192.2	181.8	176.7	171.4	156.0	135.2
80°	135.2	129.9	114.4	119.5	114.4	114.4	109.1	103.8	93.5	83.1	72.7
82.5°	36.4	41.5	41.5	41.5	46.8	36.4	36.4	36.4	41.5	41.5	26.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	5.3
87.5°	5.3	10.4	20.8	20.8	20.8	20.8	20.8	15.7	15.7	15.7	10.4
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°	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3
2.5°	4386.5	4381.2	4386.5	4350.0	4433.1	4370.8	4360.4	4350.0	4386.5	4350.0	4298.1
5°	4479.9	4428.0	4412.3	4396.8	4443.5	4370.8	4355.3	4360.4	4334.3	4266.9	4272.0
7.5°	4511.1	4464.4	4417.6	4318.9	4360.4	4344.9	4303.2	4272.0	4230.5	4173.3	4162.9
10°	4521.5	4469.5	4401.9	4370.8	4308.5	4287.7	4272.0	4220.1	4168.2	4069.4	4043.4
12.5°	4490.3	4428.0	4344.9	4318.9	4272.0	4204.4	4168.2	4116.1	4069.4	3991.4	3934.2
15°	4355.3	4303.2	4277.3	4189.0	4168.2	4126.4	4053.8	3981.1	3913.5	3809.4	3778.3
17.5°	4199.3	4178.6	4152.5	4084.9	4079.8	4038.3	3970.7	3908.2	3820.0	3658.7	3606.8
20°	4038.3	4038.3	3955.0	3929.1	3981.1	3897.8	3845.9	3788.6	3606.8	3528.8	3435.4
22.5°	3918.8	3861.5	3814.7	3773.2	3778.3	3726.3	3653.6	3539.2	3471.6	3378.2	3269.0
25°	3684.8	3705.6	3601.7	3586.0	3601.7	3482.0	3445.8	3352.1	3253.3	3165.0	3081.9
27.5°	3539.2	3482.0	3414.6	3357.4	3357.4	3310.6	3206.7	3185.9	3035.1	2952.0	2847.9
30°	3320.9	3279.4	3222.2	3139.1	3128.7	3092.3	3009.2	2957.1	2801.3	2676.5	2619.3
32.5°	3045.5	3030.0	2983.1	2889.7	2858.5	2816.8	2713.0	2624.6	2551.9	2411.4	2344.0
35°	2847.9	2790.9	2692.2	2614.2	2588.1	2515.4	2432.2	2369.9	2291.9	2167.3	2078.9
37.5°	2551.9	2494.7	2401.0	2307.6	2307.6	2234.9	2120.4	2058.1	1949.0	1876.1	1803.4
40°	2291.9	2219.2	2125.7	2016.6	2000.9	1896.9	1850.2	1746.2	1678.6	1564.4	1554.0
42.5°	2000.9	1933.3	1850.2	1767.0	1704.7	1652.7	1533.2	1455.2	1382.5	1325.3	1309.6
45°	1735.8	1647.4	1574.8	1470.7	1408.4	1346.1	1268.1	1216.2	1159.0	1096.7	1060.2
47.5°	1507.2	1434.5	1330.4	1237.0	1174.6	1143.3	1054.9	997.9	951.1	909.5	883.5
50°	1273.4	1185.0	1127.8	1023.8	1013.4	940.7	868.0	821.2	795.1	758.9	722.4
52.5°	1096.7	1013.4	935.4	857.6	815.9	790.0	722.4	675.6	639.3	613.3	592.5
55°	925.0	852.3	790.0	712.0	686.0	649.7	571.7	561.4	524.9	488.5	462.6
57.5°	795.1	727.5	654.8	602.9	556.1	530.2	467.7	426.2	405.4	374.2	348.2
60°	675.6	602.9	545.7	483.4	462.6	426.2	379.3	343.1	317.0	291.0	265.1
62.5°	566.5	504.1	441.8	389.7	358.6	337.8	301.3	270.2	244.3	223.6	202.6
65°	467.7	410.5	358.6	306.6	291.0	265.1	239.0	213.2	192.2	166.4	145.6
67.5°	384.6	332.7	280.6	244.3	228.7	218.3	187.1	161.1	145.6	129.9	109.1
70°	301.3	265.1	223.6	192.2	176.7	161.1	140.3	124.8	103.8	93.5	78.0
72.5°	234.0	202.6	166.4	140.3	129.9	119.5	98.8	83.1	72.7	62.3	51.9
75°	166.4	140.3	119.5	93.5	88.4	83.1	67.6	57.2	46.8	36.4	31.2
77.5°	114.4	93.5	72.7	62.3	57.2	46.8	41.5	31.2	26.1	20.8	15.7
80°	62.3	46.8	36.4	31.2	26.1	20.8	20.8	15.7	10.4	10.4	5.3
82.5°	20.8	15.7	10.4	5.3	5.3	5.3	5.3	5.3	5.3	0.0	5.3
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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	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°	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3
2.5°	4329.2	4272.0	4287.7	4287.7	4277.3	4277.3	4266.9	4251.3	4256.6	4225.2	4157.8
5°	4282.4	4209.7	4199.3	4209.7	4168.2	4157.8	4137.0	4168.2	4074.5	4111.0	4069.4
7.5°	4147.4	4079.8	4064.1	4100.6	4048.7	4017.3	4012.2	4053.8	3970.7	3929.1	3882.3
10°	3996.5	3970.7	3923.8	3897.8	3882.3	3887.4	3845.9	3793.9	3778.3	3767.9	3726.3
12.5°	3861.5	3804.3	3762.8	3731.6	3721.2	3721.2	3653.6	3643.3	3596.4	3586.0	3523.7
15°	3700.3	3632.9	3606.8	3565.3	3528.8	3549.6	3471.6	3450.8	3435.4	3367.8	3378.2
17.5°	3560.0	3487.3	3425.0	3398.9	3367.8	3336.6	3263.7	3279.4	3243.0	3243.0	3149.5
20°	3378.2	3300.2	3253.3	3201.4	3201.4	3159.9	3108.0	3113.1	3066.2	3019.6	2936.3
22.5°	3185.9	3102.7	3045.5	3024.7	2972.8	2962.4	2900.1	2884.4	2822.1	2827.2	2754.5
25°	2983.1	2900.1	2822.1	2827.2	2780.6	2759.8	2723.3	2650.6	2624.6	2593.4	2572.7
27.5°	2744.1	2686.9	2619.3	2614.2	2525.8	2530.9	2484.3	2463.5	2401.0	2416.7	2369.9
30°	2525.8	2442.8	2380.2	2364.8	2328.3	2317.9	2245.3	2213.9	2224.5	2182.7	2156.9
32.5°	2302.3	2177.7	2151.6	2120.4	2099.7	2073.6	2021.7	2042.5	1995.6	2006.0	1964.5
35°	2006.0	1954.1	1886.5	1886.5	1865.7	1844.9	1808.7	1829.5	1782.6	1761.9	1720.3
37.5°	1756.6	1710.0	1642.4	1663.1	1626.7	1595.5	1564.4	1569.5	1527.9	1522.8	1481.1
40°	1486.4	1460.3	1413.7	1413.7	1387.6	1387.6	1372.0	1356.5	1330.4	1299.3	1252.4
42.5°	1231.7	1210.9	1190.1	1195.4	1159.0	1190.1	1148.6	1174.6	1091.4	1086.3	1054.9
45°	1044.5	997.9	1003.0	982.2	961.5	971.8	935.4	945.8	899.2	888.8	857.6
47.5°	847.2	831.6	800.4	790.0	790.0	774.3	758.9	753.6	732.8	706.7	665.2
50°	696.4	639.3	628.8	613.3	602.9	602.9	582.1	551.0	556.1	530.2	488.5
52.5°	545.7	498.9	478.1	473.0	452.2	441.8	415.8	395.0	379.3	368.9	343.1
55°	420.9	379.3	353.5	353.5	322.3	322.3	285.9	270.2	249.4	228.7	213.2
57.5°	317.0	296.3	270.2	249.4	239.0	213.2	192.2	166.4	150.7	119.5	98.8
60°	239.0	218.3	192.2	176.7	166.4	140.3	114.4	93.5	57.2	46.8	41.5
62.5°	176.7	156.0	129.9	119.5	109.1	88.4	62.3	31.2	15.7	15.7	15.7
65°	129.9	103.8	83.1	72.7	62.3	46.8	20.8	10.4	5.3	5.3	5.3
67.5°	88.4	67.6	46.8	41.5	31.2	15.7	5.3	5.3	5.3	5.3	5.3
70°	57.2	41.5	20.8	15.7	10.4	5.3	5.3	5.3	5.3	5.3	5.3
72.5°	36.4	20.8	10.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.3	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	5.3	5.3	5.3
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 EX4C909030 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3	4334.3
2.5°	4230.5	4194.0	4214.8	4168.2	4189.0	4225.2	4199.3	4209.7
5°	4084.9	4064.1	4038.3	3970.7	4022.6	4064.1	4043.4	4038.3
7.5°	3929.1	3856.2	3892.7	3871.9	3861.5	3903.1	3856.2	3908.2
10°	3767.9	3716.0	3710.9	3674.4	3674.4	3705.6	3710.9	3679.5
12.5°	3528.8	3503.0	3503.0	3497.7	3492.4	3523.7	3528.8	3513.4
15°	3357.4	3347.0	3320.9	3315.9	3284.7	3331.3	3336.6	3331.3
17.5°	3149.5	3154.6	3128.7	3128.7	3149.5	3165.0	3123.4	3165.0
20°	3009.2	2983.1	2972.8	2925.9	2952.0	2978.1	2978.1	2983.1
22.5°	2806.4	2764.9	2780.6	2754.5	2738.8	2775.3	2775.3	2790.9
25°	2577.8	2577.8	2588.1	2572.7	2583.0	2603.8	2588.1	2624.6
27.5°	2359.5	2380.2	2380.2	2359.5	2369.9	2432.2	2458.2	2416.7
30°	2156.9	2162.0	2177.7	2167.3	2198.4	2219.2	2213.9	2245.3
32.5°	1928.2	1954.1	1964.5	1949.0	1959.4	2006.0	1980.1	1974.9
35°	1751.5	1704.7	1699.6	1704.7	1725.4	1735.8	1725.4	1761.9
37.5°	1496.8	1481.1	1460.3	1465.6	1481.1	1502.1	1512.4	1538.3
40°	1252.4	1231.7	1231.7	1226.6	1210.9	1268.1	1268.1	1268.1
42.5°	1039.4	1034.2	1008.3	1008.3	1029.1	1044.5	1034.2	1070.6
45°	852.3	831.6	815.9	815.9	831.6	831.6	847.2	841.9
47.5°	670.5	649.7	654.8	639.3	654.8	675.6	649.7	654.8
50°	504.1	504.1	493.8	504.1	498.9	504.1	493.8	483.4
52.5°	343.1	389.7	395.0	374.2	327.4	285.9	259.8	280.6
55°	197.5	176.7	176.7	171.4	161.1	156.0	140.3	156.0
57.5°	98.8	88.4	88.4	88.4	83.1	78.0	67.6	67.6
60°	41.5	36.4	36.4	31.2	26.1	20.8	15.7	20.8
62.5°	15.7	10.4	10.4	10.4	10.4	10.4	10.4	10.4
65°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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)