

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 EX4C909040 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 EX4C909040 4LBSQLWWLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

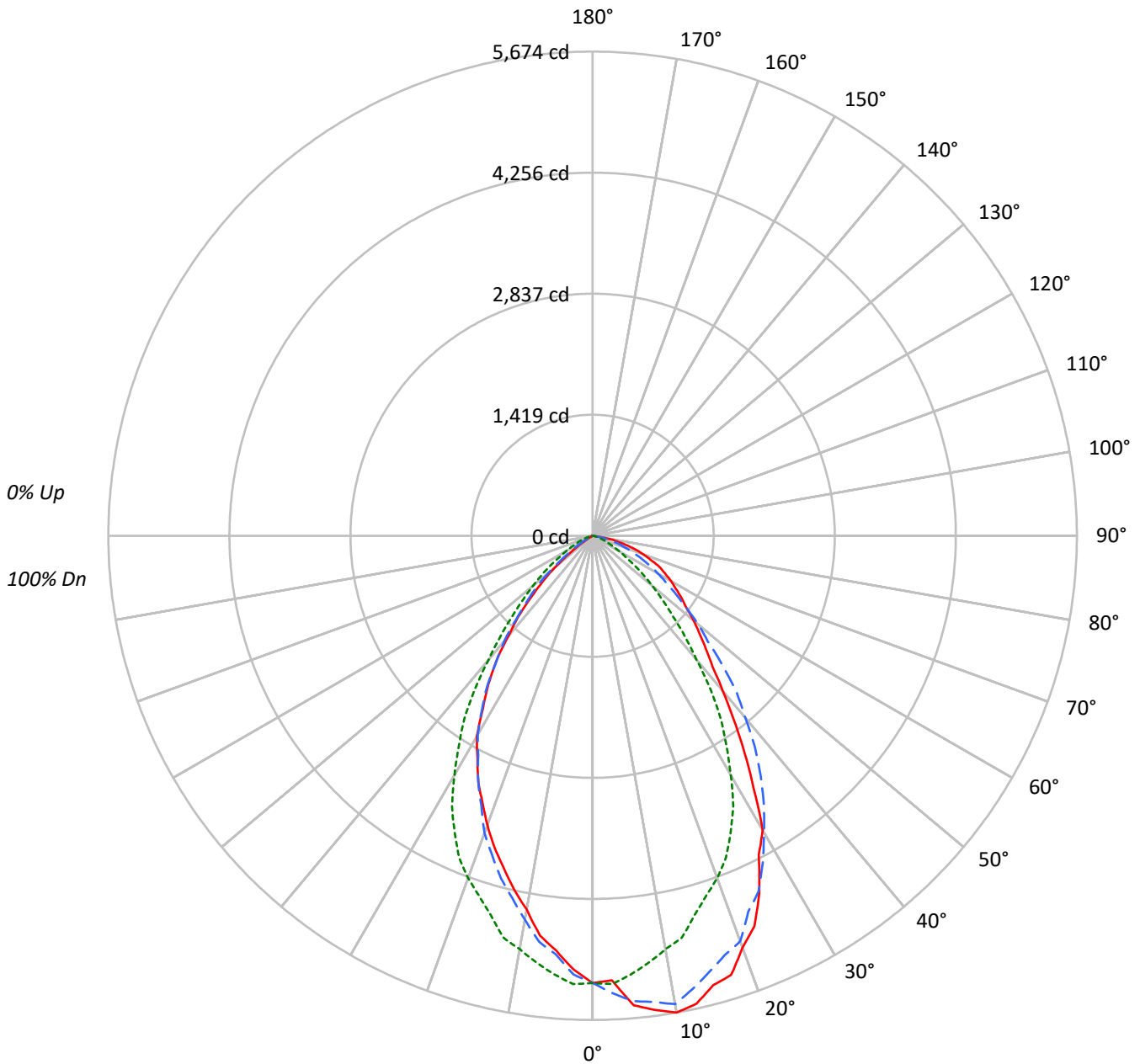
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7511.0 lumens
Efficiency: N/A
Efficacy: 77.4 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 (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°	505583	505583	505583
5°	534915	499630	472848
10°	555885	482010	435823
15°	544765	460036	402298
20°	527094	438049	370310
25°	491660	407351	337799
30°	443825	360508	302416
35°	365589	308613	250895
40°	298355	238210	193093
45°	256346	180913	138885
50°	232010	137711	87724
55°	213509	99336	31727
60°	204923	67890	4844
65°	197924	45914	1461
70°	177224	31879	1806
75°	145282	16441	0
80°	90794	7001	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	6.5
10°-20°	1322.7	17.6
20°-30°	1766.2	23.5
30°-40°	1676.6	22.3
40°-50°	1159.0	15.4
50°-60°	640.4	8.5
60°-70°	318.0	4.2
70°-80°	125.3	1.7
80°-90°	11.9	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°	3579.8	47.7
0°-40°	5256.5	70.0
0°-60°	7055.8	93.9
0°-90°	7511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5240	5240	5240	5240	5240	
5°	5523	5472	5158	4926	4882	529
15°	5454	5290	4605	4153	4027	1543
25°	4618	4599	3826	3173	3173	2105
35°	3104	3430	2620	2155	2130	1944
45°	1879	2155	1326	1087	1018	1465
55°	1269	1194	590	302	189	1142
65°	867	628	201	6	6	841
75°	390	239	44	0	0	415
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°	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8
2.5°	5214.7	5359.2	5371.8	5359.2	5378.2	5371.8	5403.3	5371.8	5409.7	5353.1	5365.6
5°	5522.7	5466.1	5585.4	5522.7	5522.7	5516.5	5497.6	5491.2	5516.5	5434.8	5472.5
7.5°	5604.4	5686.1	5792.9	5661.0	5667.2	5667.2	5629.5	5617.0	5617.0	5466.1	5510.1
10°	5673.6	5623.1	5679.7	5629.5	5673.6	5667.2	5692.3	5610.6	5667.2	5579.3	5572.9
12.5°	5617.0	5598.0	5673.6	5591.8	5566.7	5572.9	5541.6	5522.7	5541.6	5441.0	5434.8
15°	5453.5	5472.5	5585.4	5497.6	5485.0	5472.5	5434.8	5371.8	5422.2	5283.9	5290.3
17.5°	5397.1	5365.6	5384.6	5309.0	5328.0	5315.4	5309.0	5252.6	5239.8	5152.0	5152.0
20°	5133.3	5202.2	5202.2	5152.0	5152.0	5145.8	5064.1	5114.3	5057.7	5032.6	5057.7
22.5°	4950.9	4957.3	4957.3	4913.2	4919.6	4894.5	4850.4	4818.9	4850.4	4818.9	4768.7
25°	4618.1	4630.6	4705.9	4624.2	4611.7	4636.8	4599.1	4580.2	4574.0	4498.7	4599.1
27.5°	4215.9	4341.4	4335.2	4303.7	4341.4	4291.2	4272.5	4278.6	4297.6	4291.2	4316.3
30°	3983.5	4002.2	4021.1	3996.0	4002.2	3983.5	3983.5	3989.6	4039.9	4021.1	4014.7
32.5°	3512.1	3574.9	3625.3	3625.3	3631.5	3650.4	3644.0	3776.0	3807.5	3744.7	3732.2
35°	3103.7	3147.8	3191.6	3198.0	3279.7	3285.9	3292.3	3329.9	3417.8	3436.8	3430.4
37.5°	2714.3	2758.1	2770.7	2827.3	2871.4	2915.2	2965.6	3015.9	3091.2	3154.0	3122.7
40°	2368.7	2387.4	2418.9	2444.0	2531.9	2531.9	2557.0	2657.7	2739.4	2789.6	2783.2
42.5°	2079.7	2085.9	2111.0	2155.1	2236.8	2217.8	2236.8	2306.0	2425.1	2431.5	2500.7
45°	1878.6	1872.2	1891.2	1897.3	1947.8	1972.9	1985.5	2035.7	2136.1	2148.7	2155.1
47.5°	1696.5	1690.1	1721.6	1734.1	1752.9	1778.0	1778.0	1784.4	1822.0	1853.5	1828.4
50°	1545.6	1545.6	1545.6	1558.1	1589.7	1583.3	1589.7	1614.8	1633.5	1620.9	1614.8
52.5°	1382.1	1407.3	1426.2	1432.6	1438.8	1438.8	1445.2	1432.6	1426.2	1407.3	1369.6
55°	1269.2	1294.3	1294.3	1294.3	1294.3	1319.4	1288.1	1294.3	1294.3	1244.1	1193.8
57.5°	1156.2	1181.3	1200.0	1174.9	1200.0	1174.9	1162.3	1156.2	1143.4	1093.2	1017.8
60°	1061.9	1074.5	1068.1	1061.9	1074.5	1055.5	1042.9	1017.8	1005.3	936.1	885.9
62.5°	955.1	961.2	967.6	955.1	942.5	936.1	911.0	873.3	848.2	791.6	747.6
65°	866.9	848.2	841.8	835.7	823.1	804.2	785.5	741.4	722.5	672.2	628.2
67.5°	735.0	728.9	741.4	722.5	691.2	691.2	672.2	634.6	590.5	559.3	515.2
70°	628.2	622.0	609.5	590.5	584.4	559.3	559.3	515.2	502.6	446.0	408.4
72.5°	515.2	515.2	496.2	477.5	458.6	446.0	439.9	408.4	389.7	358.2	326.6
75°	389.7	389.7	383.3	364.3	351.8	339.2	333.0	307.9	289.0	257.7	238.8
77.5°	276.4	276.4	251.3	238.8	244.9	232.4	219.8	213.7	207.3	188.6	163.4
80°	163.4	157.0	138.3	144.5	138.3	138.3	131.9	125.5	113.0	100.4	87.9
82.5°	44.1	50.2	50.2	50.2	56.6	44.1	44.1	44.1	50.2	50.2	31.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	6.4	6.4
87.5°	6.4	12.6	25.1	25.1	25.1	25.1	25.1	19.0	19.0	19.0	12.6
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°	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8
2.5°	5302.9	5296.5	5302.9	5258.8	5359.2	5283.9	5271.4	5258.8	5302.9	5258.8	5196.0
5°	5415.8	5353.1	5334.1	5315.4	5371.8	5283.9	5265.2	5271.4	5239.8	5158.4	5164.5
7.5°	5453.5	5397.1	5340.5	5221.1	5271.4	5252.6	5202.2	5164.5	5114.3	5045.1	5032.6
10°	5466.1	5403.3	5321.6	5283.9	5208.6	5183.5	5164.5	5101.8	5039.0	4919.6	4888.1
12.5°	5428.4	5353.1	5252.6	5221.1	5164.5	5082.8	5039.0	4976.0	4919.6	4825.3	4756.2
15°	5265.2	5202.2	5170.9	5064.1	5039.0	4988.5	4900.6	4812.8	4731.0	4605.3	4567.6
17.5°	5076.6	5051.5	5020.0	4938.3	4932.2	4881.9	4800.2	4724.6	4618.1	4423.1	4360.3
20°	4881.9	4881.9	4781.3	4750.0	4812.8	4712.1	4649.3	4580.2	4360.3	4266.1	4153.1
22.5°	4737.4	4668.3	4611.7	4561.4	4567.6	4504.8	4417.0	4278.6	4196.9	4083.9	3952.0
25°	4454.6	4479.7	4354.2	4335.2	4354.2	4209.5	4165.6	4052.4	3933.0	3826.2	3725.8
27.5°	4278.6	4209.5	4128.0	4058.8	4058.8	4002.2	3876.7	3851.5	3669.1	3568.7	3442.9
30°	4014.7	3964.5	3895.4	3794.9	3782.4	3738.3	3637.9	3574.9	3386.6	3235.7	3166.5
32.5°	3681.7	3663.0	3606.4	3493.4	3455.7	3405.3	3279.7	3172.9	3085.0	2915.2	2833.7
35°	3442.9	3374.0	3254.6	3160.4	3128.8	3041.0	2940.3	2865.0	2770.7	2620.0	2513.2
37.5°	3085.0	3015.9	2902.6	2789.6	2789.6	2701.8	2563.4	2488.1	2356.2	2268.0	2180.2
40°	2770.7	2682.8	2569.8	2437.9	2418.9	2293.2	2236.8	2111.0	2029.3	1891.2	1878.6
42.5°	2418.9	2337.2	2236.8	2136.1	2060.8	1998.0	1853.5	1759.3	1671.4	1602.2	1583.3
45°	2098.4	1991.6	1903.7	1778.0	1702.6	1627.3	1533.0	1470.3	1401.1	1325.8	1281.7
47.5°	1822.0	1734.1	1608.4	1495.4	1420.1	1382.1	1275.3	1206.4	1149.8	1099.6	1068.1
50°	1539.4	1432.6	1363.4	1237.7	1225.1	1137.2	1049.3	992.7	961.2	917.4	873.3
52.5°	1325.8	1225.1	1130.8	1036.8	986.3	955.1	873.3	816.7	772.9	741.4	716.3
55°	1118.3	1030.4	955.1	860.8	829.3	785.5	691.2	678.6	634.6	590.5	559.3
57.5°	961.2	879.5	791.6	728.9	672.2	641.0	565.4	515.2	490.1	452.4	420.9
60°	816.7	728.9	659.7	584.4	559.3	515.2	458.6	414.8	383.3	351.8	320.5
62.5°	684.8	609.5	534.2	471.1	433.5	408.4	364.3	326.6	295.4	270.3	244.9
65°	565.4	496.2	433.5	370.7	351.8	320.5	289.0	257.7	232.4	201.1	176.0
67.5°	465.0	402.2	339.2	295.4	276.4	263.9	226.2	194.7	176.0	157.0	131.9
70°	364.3	320.5	270.3	232.4	213.7	194.7	169.6	150.9	125.5	113.0	94.3
72.5°	282.8	244.9	201.1	169.6	157.0	144.5	119.4	100.4	87.9	75.3	62.8
75°	201.1	169.6	144.5	113.0	106.8	100.4	81.7	69.2	56.6	44.1	37.7
77.5°	138.3	113.0	87.9	75.3	69.2	56.6	50.2	37.7	31.5	25.1	19.0
80°	75.3	56.6	44.1	37.7	31.5	25.1	25.1	19.0	12.6	12.6	6.4
82.5°	25.1	19.0	12.6	6.4	6.4	6.4	6.4	6.4	6.4	0.0	6.4
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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	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°	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8
2.5°	5233.7	5164.5	5183.5	5183.5	5170.9	5170.9	5158.4	5139.4	5145.8	5107.9	5026.4
5°	5177.1	5089.2	5076.6	5089.2	5039.0	5026.4	5001.3	5039.0	4925.8	4969.8	4919.6
7.5°	5013.9	4932.2	4913.2	4957.3	4894.5	4856.6	4850.4	4900.6	4800.2	4750.0	4693.4
10°	4831.5	4800.2	4743.6	4712.1	4693.4	4699.5	4649.3	4586.6	4567.6	4555.0	4504.8
12.5°	4668.3	4599.1	4548.9	4511.2	4498.7	4498.7	4417.0	4404.4	4347.8	4335.2	4259.9
15°	4473.3	4391.9	4360.3	4310.1	4266.1	4291.2	4196.9	4171.8	4153.1	4071.4	4083.9
17.5°	4303.7	4215.9	4140.5	4109.0	4071.4	4033.7	3945.6	3964.5	3920.5	3920.5	3807.5
20°	4083.9	3989.6	3933.0	3870.3	3870.3	3820.0	3757.3	3763.4	3706.8	3650.4	3549.8
22.5°	3851.5	3750.9	3681.7	3656.6	3593.8	3581.3	3505.9	3487.0	3411.7	3417.8	3329.9
25°	3606.4	3505.9	3411.7	3417.8	3361.5	3336.3	3292.3	3204.4	3172.9	3135.2	3110.1
27.5°	3317.4	3248.2	3166.5	3160.4	3053.5	3059.7	3003.3	2978.2	2902.6	2921.6	2865.0
30°	3053.5	2953.1	2877.5	2858.8	2814.8	2802.2	2714.3	2676.4	2689.2	2638.8	2607.5
32.5°	2783.2	2632.6	2601.1	2563.4	2538.3	2506.8	2444.0	2469.2	2412.5	2425.1	2374.9
35°	2425.1	2362.3	2280.6	2280.6	2255.5	2230.4	2186.6	2211.7	2155.1	2130.0	2079.7
37.5°	2123.6	2067.2	1985.5	2010.6	1966.5	1928.8	1891.2	1897.3	1847.1	1841.0	1790.5
40°	1796.9	1765.4	1709.0	1709.0	1677.5	1677.5	1658.6	1639.9	1608.4	1570.7	1514.1
42.5°	1489.0	1463.9	1438.8	1445.2	1401.1	1438.8	1388.5	1420.1	1319.4	1313.2	1275.3
45°	1262.8	1206.4	1212.5	1187.4	1162.3	1174.9	1130.8	1143.4	1087.0	1074.5	1036.8
47.5°	1024.2	1005.3	967.6	955.1	955.1	936.1	917.4	911.0	885.9	854.4	804.2
50°	841.8	772.9	760.1	741.4	728.9	728.9	703.7	666.1	672.2	641.0	590.5
52.5°	659.7	603.1	578.0	571.8	546.7	534.2	502.6	477.5	458.6	446.0	414.8
55°	508.8	458.6	427.3	427.3	389.7	389.7	345.6	326.6	301.5	276.4	257.7
57.5°	383.3	358.2	326.6	301.5	289.0	257.7	232.4	201.1	182.2	144.5	119.4
60°	289.0	263.9	232.4	213.7	201.1	169.6	138.3	113.0	69.2	56.6	50.2
62.5°	213.7	188.6	157.0	144.5	131.9	106.8	75.3	37.7	19.0	19.0	19.0
65°	157.0	125.5	100.4	87.9	75.3	56.6	25.1	12.6	6.4	6.4	6.4
67.5°	106.8	81.7	56.6	50.2	37.7	19.0	6.4	6.4	6.4	6.4	6.4
70°	69.2	50.2	25.1	19.0	12.6	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	44.1	25.1	12.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.1	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.4	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	6.4	6.4	6.4
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 EX4C909040 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8	5239.8
2.5°	5114.3	5070.2	5095.4	5039.0	5064.1	5107.9	5076.6	5089.2
5°	4938.3	4913.2	4881.9	4800.2	4863.0	4913.2	4888.1	4881.9
7.5°	4750.0	4661.9	4705.9	4680.8	4668.3	4718.5	4661.9	4724.6
10°	4555.0	4492.3	4486.1	4442.1	4442.1	4479.7	4486.1	4448.2
12.5°	4266.1	4234.8	4234.8	4228.4	4222.0	4259.9	4266.1	4247.4
15°	4058.8	4046.3	4014.7	4008.6	3970.9	4027.3	4033.7	4027.3
17.5°	3807.5	3813.6	3782.4	3782.4	3807.5	3826.2	3776.0	3826.2
20°	3637.9	3606.4	3593.8	3537.2	3568.7	3600.2	3600.2	3606.4
22.5°	3392.7	3342.5	3361.5	3329.9	3311.0	3355.1	3355.1	3374.0
25°	3116.3	3116.3	3128.8	3110.1	3122.7	3147.8	3128.8	3172.9
27.5°	2852.4	2877.5	2877.5	2852.4	2865.0	2940.3	2971.8	2921.6
30°	2607.5	2613.6	2632.6	2620.0	2657.7	2682.8	2676.4	2714.3
32.5°	2331.1	2362.3	2374.9	2356.2	2368.7	2425.1	2393.8	2387.4
35°	2117.4	2060.8	2054.6	2060.8	2085.9	2098.4	2085.9	2130.0
37.5°	1809.5	1790.5	1765.4	1771.8	1790.5	1815.9	1828.4	1859.7
40°	1514.1	1489.0	1489.0	1482.8	1463.9	1533.0	1533.0	1533.0
42.5°	1256.6	1250.2	1218.9	1218.9	1244.1	1262.8	1250.2	1294.3
45°	1030.4	1005.3	986.3	986.3	1005.3	1005.3	1024.2	1017.8
47.5°	810.6	785.5	791.6	772.9	791.6	816.7	785.5	791.6
50°	609.5	609.5	596.9	609.5	603.1	609.5	596.9	584.4
52.5°	414.8	471.1	477.5	452.4	395.8	345.6	314.1	339.2
55°	238.8	213.7	213.7	207.3	194.7	188.6	169.6	188.6
57.5°	119.4	106.8	106.8	106.8	100.4	94.3	81.7	81.7
60°	50.2	44.1	44.1	37.7	31.5	25.1	19.0	25.1
62.5°	19.0	12.6	12.6	12.6	12.6	12.6	12.6	12.6
65°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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)