

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 EX4C909035 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 EX4C909035 4LBSQLWWLI
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

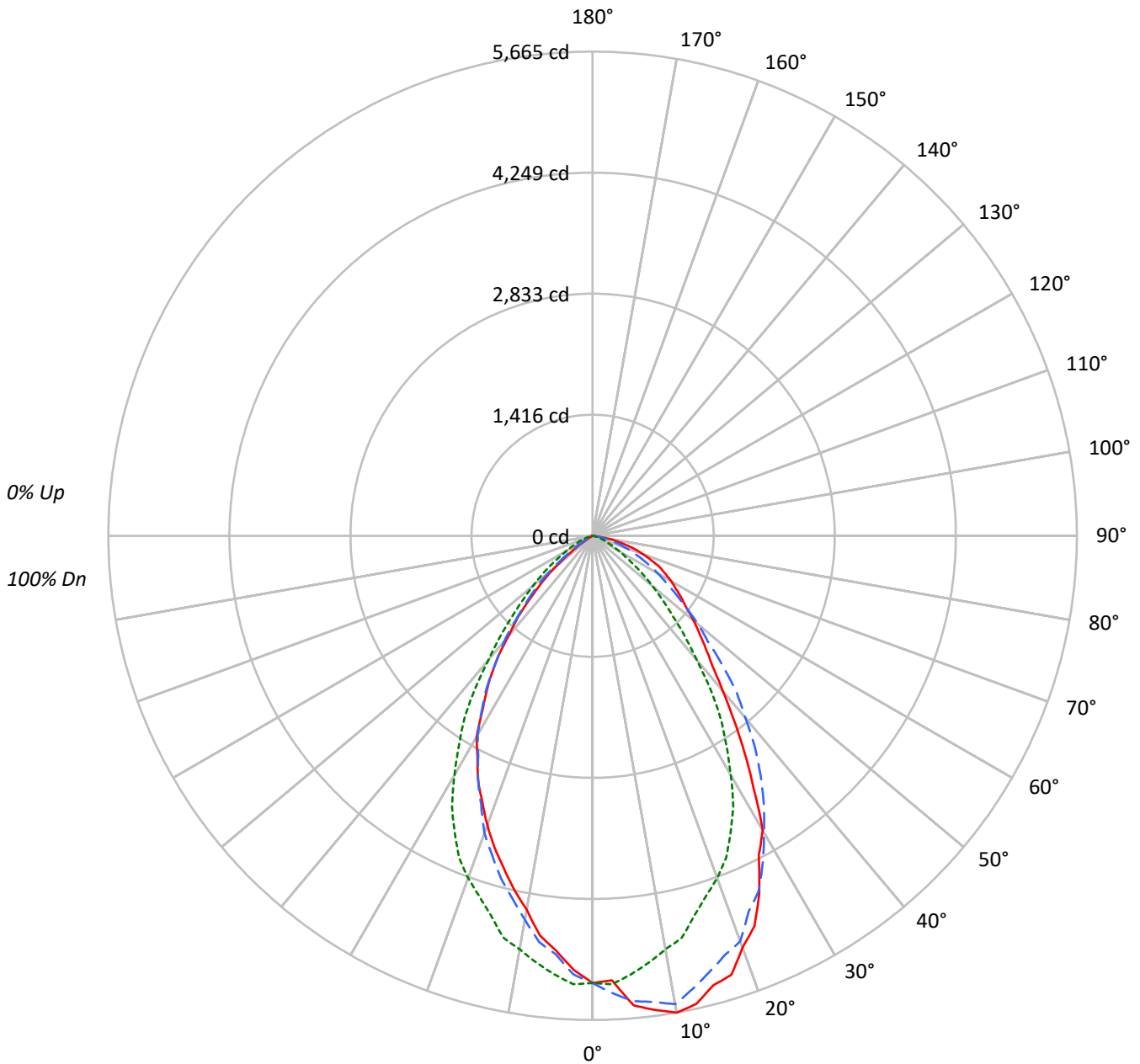
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7500.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWLI

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°	504849	504849	504849
5°	534130	498893	472161
10°	555071	481304	435186
15°	543965	459356	401708
20°	526314	437402	369766
25°	490936	406755	337309
30°	443167	359973	301970
35°	365058	308165	250518
40°	297927	237858	192815
45°	255978	180640	138680
50°	231665	137516	87589
55°	213189	99201	31676
60°	204614	67774	4844
65°	197650	45845	1461
70°	176971	31823	1806
75°	145058	16403	0
80°	90683	6946	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.2	6.5
10°-20°	1320.7	17.6
20°-30°	1763.6	23.5
30°-40°	1674.2	22.3
40°-50°	1157.3	15.4
50°-60°	639.4	8.5
60°-70°	317.5	4.2
70°-80°	125.1	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°	3574.6	47.7
0°-40°	5248.8	70.0
0°-60°	7045.5	93.9
0°-90°	7500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7500.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5232	5232	5232	5232	5232	
5°	5515	5464	5151	4918	4875	528
15°	5446	5283	4598	4147	4021	1540
25°	4611	4592	3821	3168	3168	2102
35°	3099	3425	2616	2152	2127	1942
45°	1876	2152	1324	1085	1016	1463
55°	1267	1192	590	301	188	1141
65°	866	627	201	6	6	840
75°	389	238	44	0	0	415
85°	0	6	0	0	0	36
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2
2.5°	5207.1	5351.4	5363.9	5351.4	5370.3	5363.9	5395.4	5363.9	5401.8	5345.2	5357.8
5°	5514.6	5458.1	5577.3	5514.6	5514.6	5508.4	5489.5	5483.1	5508.4	5426.8	5464.4
7.5°	5596.2	5677.8	5784.5	5652.7	5658.9	5658.9	5621.3	5608.7	5608.7	5458.1	5502.1
10°	5665.3	5614.9	5671.4	5621.3	5665.3	5658.9	5683.9	5602.3	5658.9	5571.1	5564.7
12.5°	5608.7	5589.8	5665.3	5583.7	5558.6	5564.7	5533.5	5514.6	5533.5	5433.0	5426.8
15°	5445.5	5464.4	5577.3	5489.5	5477.0	5464.4	5426.8	5363.9	5414.3	5276.2	5282.6
17.5°	5389.2	5357.8	5376.7	5301.2	5320.2	5307.6	5301.2	5245.0	5232.2	5144.4	5144.4
20°	5125.7	5194.6	5194.6	5144.4	5144.4	5138.3	5056.7	5106.8	5050.3	5025.2	5050.3
22.5°	4943.6	4950.0	4950.0	4906.0	4912.4	4887.3	4843.3	4811.9	4843.3	4811.9	4761.7
25°	4611.3	4623.8	4699.0	4617.4	4604.9	4630.0	4592.4	4573.4	4567.3	4492.1	4592.4
27.5°	4209.7	4335.0	4328.9	4297.4	4335.0	4284.9	4266.2	4272.4	4291.3	4284.9	4310.0
30°	3977.6	3996.3	4015.3	3990.2	3996.3	3977.6	3977.6	3983.8	4033.9	4015.3	4008.9
32.5°	3507.0	3569.6	3620.0	3620.0	3626.2	3645.1	3638.7	3770.4	3801.9	3739.2	3726.7
35°	3099.2	3143.2	3186.9	3193.3	3274.9	3281.1	3287.5	3325.1	3412.8	3431.7	3425.4
37.5°	2710.3	2754.1	2766.6	2823.2	2867.2	2910.9	2961.3	3011.4	3086.7	3149.3	3118.1
40°	2365.3	2383.9	2415.4	2440.5	2528.2	2528.2	2553.3	2653.8	2735.4	2785.6	2779.2
42.5°	2076.7	2082.8	2107.9	2151.9	2233.5	2214.6	2233.5	2302.6	2421.5	2427.9	2497.0
45°	1875.9	1869.5	1888.4	1894.6	1945.0	1970.0	1982.6	2032.7	2133.0	2145.5	2151.9
47.5°	1694.0	1687.6	1719.1	1731.6	1750.3	1775.4	1775.4	1781.7	1819.4	1850.8	1825.7
50°	1543.3	1543.3	1543.3	1555.9	1587.3	1580.9	1587.3	1612.4	1631.1	1618.5	1612.4
52.5°	1380.1	1405.2	1424.1	1430.5	1436.7	1436.7	1443.0	1430.5	1424.1	1405.2	1367.6
55°	1267.3	1292.4	1292.4	1292.4	1292.4	1317.4	1286.2	1292.4	1292.4	1242.2	1192.1
57.5°	1154.5	1179.6	1198.2	1173.2	1198.2	1173.2	1160.6	1154.5	1141.7	1091.6	1016.3
60°	1060.3	1072.9	1066.5	1060.3	1072.9	1054.0	1041.4	1016.3	1003.8	934.7	884.6
62.5°	953.7	959.8	966.2	953.7	941.1	934.7	909.7	872.1	847.0	790.5	746.5
65°	865.7	847.0	840.6	834.5	821.9	803.0	784.3	740.3	721.4	671.3	627.3
67.5°	733.9	727.8	740.3	721.4	690.2	690.2	671.3	633.7	589.7	558.4	514.4
70°	627.3	621.1	608.6	589.7	583.5	558.4	558.4	514.4	501.9	445.4	407.8
72.5°	514.4	514.4	495.5	476.8	457.9	445.4	439.2	407.8	389.1	357.6	326.2
75°	389.1	389.1	382.7	363.8	351.2	338.7	332.6	307.5	288.6	257.3	238.4
77.5°	276.0	276.0	251.0	238.4	244.6	232.0	219.5	213.3	207.0	188.3	163.2
80°	163.2	156.8	138.1	144.3	138.1	138.1	131.7	125.4	112.8	100.3	87.7
82.5°	44.0	50.1	50.1	50.1	56.5	44.0	44.0	44.0	50.1	50.1	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	12.5	25.1	25.1	25.1	25.1	25.1	18.9	18.9	18.9	12.5
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 EX4C909035 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2
2.5°	5295.1	5288.7	5295.1	5251.1	5351.4	5276.2	5263.6	5251.1	5295.1	5251.1	5188.4
5°	5407.9	5345.2	5326.3	5307.6	5363.9	5276.2	5257.5	5263.6	5232.2	5150.8	5157.0
7.5°	5445.5	5389.2	5332.7	5213.5	5263.6	5245.0	5194.6	5157.0	5106.8	5037.8	5025.2
10°	5458.1	5395.4	5313.8	5276.2	5201.0	5175.9	5157.0	5094.3	5031.6	4912.4	4880.9
12.5°	5420.4	5345.2	5245.0	5213.5	5157.0	5075.4	5031.6	4968.7	4912.4	4818.3	4749.2
15°	5257.5	5194.6	5163.3	5056.7	5031.6	4981.2	4893.5	4805.7	4724.1	4598.5	4560.9
17.5°	5069.2	5044.1	5012.7	4931.1	4924.9	4874.8	4793.2	4717.7	4611.3	4416.6	4354.0
20°	4874.8	4874.8	4774.3	4743.0	4805.7	4705.2	4642.5	4573.4	4354.0	4259.8	4147.0
22.5°	4730.5	4661.4	4604.9	4554.8	4560.9	4498.2	4410.5	4272.4	4190.8	4077.9	3946.2
25°	4448.1	4473.2	4347.8	4328.9	4347.8	4203.3	4159.5	4046.5	3927.3	3820.6	3720.3
27.5°	4272.4	4203.3	4121.9	4052.9	4052.9	3996.3	3871.0	3845.9	3663.8	3563.5	3437.9
30°	4008.9	3958.7	3889.7	3789.4	3776.8	3732.8	3632.6	3569.6	3381.6	3230.9	3161.9
32.5°	3676.3	3657.6	3601.1	3488.3	3450.7	3400.3	3274.9	3168.3	3080.5	2910.9	2829.6
35°	3437.9	3369.1	3249.9	3155.7	3124.3	3036.5	2936.0	2860.8	2766.6	2616.2	2509.5
37.5°	3080.5	3011.4	2898.4	2785.6	2785.6	2697.8	2559.7	2484.5	2352.7	2264.7	2177.0
40°	2766.6	2678.9	2566.1	2434.3	2415.4	2289.8	2233.5	2107.9	2026.3	1888.4	1875.9
42.5°	2415.4	2333.8	2233.5	2133.0	2057.8	1995.1	1850.8	1756.7	1668.9	1599.9	1580.9
45°	2095.4	1988.7	1901.0	1775.4	1700.1	1624.9	1530.8	1468.1	1399.0	1323.8	1279.8
47.5°	1819.4	1731.6	1606.0	1493.2	1418.0	1380.1	1273.4	1204.6	1148.1	1098.0	1066.5
50°	1537.2	1430.5	1361.4	1235.8	1223.3	1135.6	1047.8	991.3	959.8	916.1	872.1
52.5°	1323.8	1223.3	1129.2	1035.3	984.9	953.7	872.1	815.5	771.8	740.3	715.3
55°	1116.6	1028.9	953.7	859.5	828.1	784.3	690.2	677.6	633.7	589.7	558.4
57.5°	959.8	878.2	790.5	727.8	671.3	640.0	564.6	514.4	489.4	451.8	420.3
60°	815.5	727.8	658.7	583.5	558.4	514.4	457.9	414.2	382.7	351.2	320.0
62.5°	683.8	608.6	533.4	470.4	432.8	407.8	363.8	326.2	295.0	269.9	244.6
65°	564.6	495.5	432.8	370.2	351.2	320.0	288.6	257.3	232.0	200.8	175.7
67.5°	464.3	401.6	338.7	295.0	276.0	263.5	225.9	194.4	175.7	156.8	131.7
70°	363.8	320.0	269.9	232.0	213.3	194.4	169.4	150.7	125.4	112.8	94.1
72.5°	282.4	244.6	200.8	169.4	156.8	144.3	119.2	100.3	87.7	75.2	62.7
75°	200.8	169.4	144.3	112.8	106.7	100.3	81.6	69.1	56.5	44.0	37.6
77.5°	138.1	112.8	87.7	75.2	69.1	56.5	50.1	37.6	31.5	25.1	18.9
80°	75.2	56.5	44.0	37.6	31.5	25.1	25.1	18.9	12.5	12.5	6.4
82.5°	25.1	18.9	12.5	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



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909035 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2
2.5°	5226.0	5157.0	5175.9	5175.9	5163.3	5163.3	5150.8	5131.9	5138.3	5100.4	5019.1
5°	5169.5	5081.7	5069.2	5081.7	5031.6	5019.1	4994.0	5031.6	4918.5	4962.5	4912.4
7.5°	5006.5	4924.9	4906.0	4950.0	4887.3	4849.5	4843.3	4893.5	4793.2	4743.0	4686.5
10°	4824.4	4793.2	4736.7	4705.2	4686.5	4692.7	4642.5	4579.8	4560.9	4548.4	4498.2
12.5°	4661.4	4592.4	4542.2	4504.6	4492.1	4492.1	4410.5	4398.0	4341.4	4328.9	4253.7
15°	4466.8	4385.4	4354.0	4303.8	4259.8	4284.9	4190.8	4165.7	4147.0	4065.4	4077.9
17.5°	4297.4	4209.7	4134.5	4103.0	4065.4	4027.8	3939.8	3958.7	3914.7	3914.7	3801.9
20°	4077.9	3983.8	3927.3	3864.6	3864.6	3814.4	3751.8	3757.9	3701.4	3645.1	3544.6
22.5°	3845.9	3745.4	3676.3	3651.2	3588.6	3576.0	3500.8	3481.9	3406.7	3412.8	3325.1
25°	3601.1	3500.8	3406.7	3412.8	3356.5	3331.5	3287.5	3199.7	3168.3	3130.7	3105.6
27.5°	3312.5	3243.5	3161.9	3155.7	3049.0	3055.2	2998.9	2973.8	2898.4	2917.3	2860.8
30°	3049.0	2948.8	2873.3	2854.6	2810.6	2798.1	2710.3	2672.5	2685.3	2634.9	2603.7
32.5°	2779.2	2628.7	2597.3	2559.7	2534.6	2503.1	2440.5	2465.5	2409.0	2421.5	2371.4
35°	2421.5	2358.9	2277.3	2277.3	2252.2	2227.1	2183.4	2208.4	2151.9	2126.8	2076.7
37.5°	2120.4	2064.2	1982.6	2007.6	1963.6	1926.0	1888.4	1894.6	1844.4	1838.3	1787.9
40°	1794.3	1762.8	1706.5	1706.5	1675.1	1675.1	1656.1	1637.5	1606.0	1568.4	1511.9
42.5°	1486.8	1461.7	1436.7	1443.0	1399.0	1436.7	1386.5	1418.0	1317.4	1311.3	1273.4
45°	1260.9	1204.6	1210.8	1185.7	1160.6	1173.2	1129.2	1141.7	1085.4	1072.9	1035.3
47.5°	1022.7	1003.8	966.2	953.7	953.7	934.7	916.1	909.7	884.6	853.1	803.0
50°	840.6	771.8	759.0	740.3	727.8	727.8	702.7	665.1	671.3	640.0	589.7
52.5°	658.7	602.2	577.1	571.0	545.9	533.4	501.9	476.8	457.9	445.4	414.2
55°	508.1	457.9	426.7	426.7	389.1	389.1	345.1	326.2	301.1	276.0	257.3
57.5°	382.7	357.6	326.2	301.1	288.6	257.3	232.0	200.8	181.9	144.3	119.2
60°	288.6	263.5	232.0	213.3	200.8	169.4	138.1	112.8	69.1	56.5	50.1
62.5°	213.3	188.3	156.8	144.3	131.7	106.7	75.2	37.6	18.9	18.9	18.9
65°	156.8	125.4	100.3	87.7	75.2	56.5	25.1	12.5	6.4	6.4	6.4
67.5°	106.7	81.6	56.5	50.1	37.6	18.9	6.4	6.4	6.4	6.4	6.4
70°	69.1	50.1	25.1	18.9	12.5	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	44.0	25.1	12.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.1	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.5	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 EX4C909035 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2	5232.2
2.5°	5106.8	5062.8	5087.9	5031.6	5056.7	5100.4	5069.2	5081.7
5°	4931.1	4906.0	4874.8	4793.2	4855.9	4906.0	4880.9	4874.8
7.5°	4743.0	4655.1	4699.0	4674.0	4661.4	4711.6	4655.1	4717.7
10°	4548.4	4485.7	4479.6	4435.6	4435.6	4473.2	4479.6	4441.7
12.5°	4259.8	4228.6	4228.6	4222.2	4215.8	4253.7	4259.8	4241.1
15°	4052.9	4040.3	4008.9	4002.7	3965.1	4021.4	4027.8	4021.4
17.5°	3801.9	3808.1	3776.8	3776.8	3801.9	3820.6	3770.4	3820.6
20°	3632.6	3601.1	3588.6	3532.0	3563.5	3595.0	3595.0	3601.1
22.5°	3387.7	3337.6	3356.5	3325.1	3306.1	3350.1	3350.1	3369.1
25°	3111.7	3111.7	3124.3	3105.6	3118.1	3143.2	3124.3	3168.3
27.5°	2848.2	2873.3	2873.3	2848.2	2860.8	2936.0	2967.4	2917.3
30°	2603.7	2609.8	2628.7	2616.2	2653.8	2678.9	2672.5	2710.3
32.5°	2327.6	2358.9	2371.4	2352.7	2365.3	2421.5	2390.3	2383.9
35°	2114.3	2057.8	2051.6	2057.8	2082.8	2095.4	2082.8	2126.8
37.5°	1806.8	1787.9	1762.8	1769.2	1787.9	1813.2	1825.7	1857.0
40°	1511.9	1486.8	1486.8	1480.7	1461.7	1530.8	1530.8	1530.8
42.5°	1254.8	1248.4	1217.2	1217.2	1242.2	1260.9	1248.4	1292.4
45°	1028.9	1003.8	984.9	984.9	1003.8	1003.8	1022.7	1016.3
47.5°	809.4	784.3	790.5	771.8	790.5	815.5	784.3	790.5
50°	608.6	608.6	596.0	608.6	602.2	608.6	596.0	583.5
52.5°	414.2	470.4	476.8	451.8	395.2	345.1	313.6	338.7
55°	238.4	213.3	213.3	207.0	194.4	188.3	169.4	188.3
57.5°	119.2	106.7	106.7	106.7	100.3	94.1	81.6	81.6
60°	50.1	44.0	44.0	37.6	31.5	25.1	18.9	25.1
62.5°	18.9	12.5	12.5	12.5	12.5	12.5	12.5	12.5
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)