

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: **LD4C80D010 EX4C809040 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: LD4C80D010 EX4C809040 4LBSQLWWLI
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

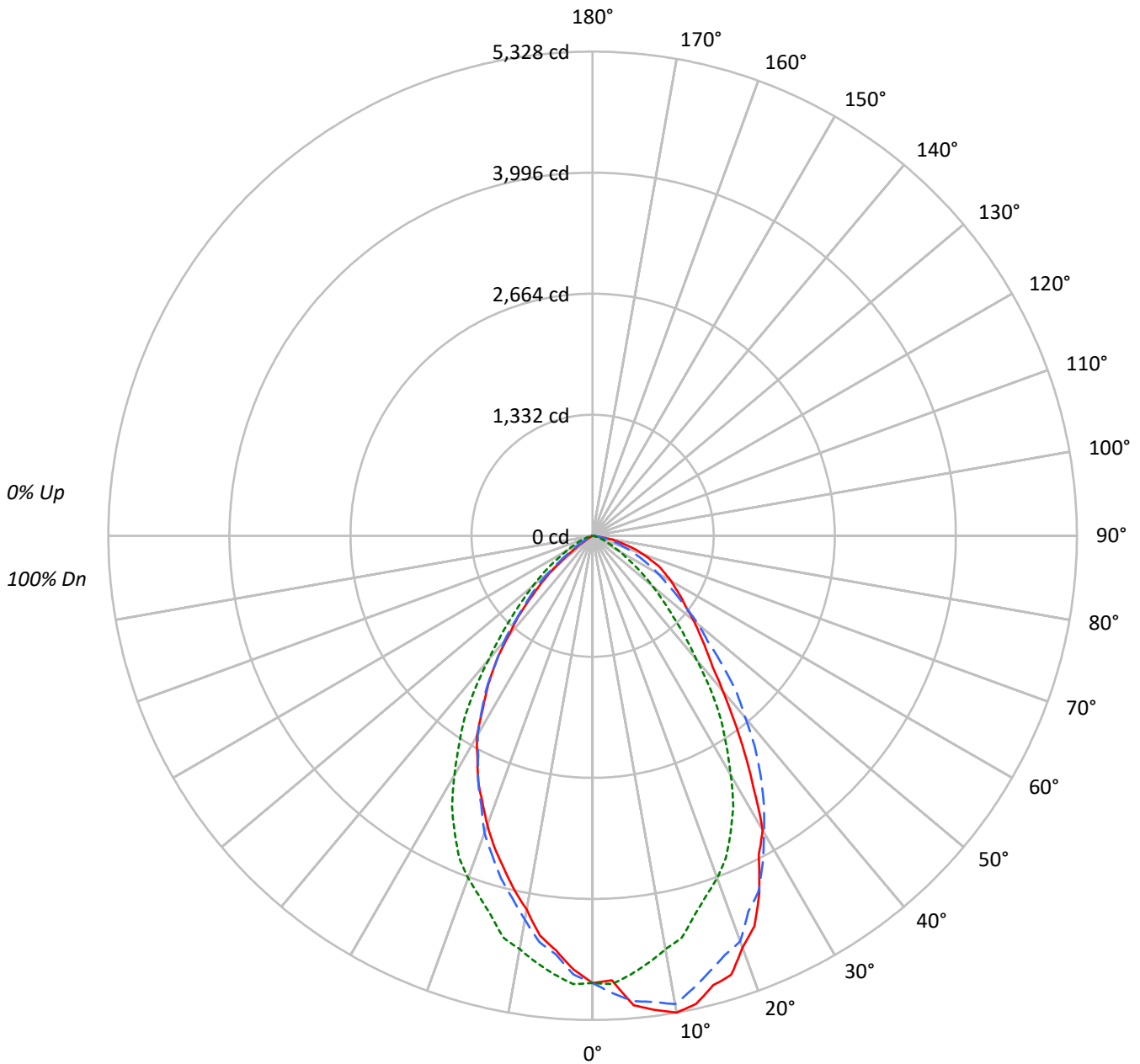
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7053.0 lumens
Efficiency: N/A
Efficacy: 78.8 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): 89.5
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

TEST NUMBER: P#
CATALOG NUMBER: LD4C80D010 EX4C809040 4LBSQLWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P#

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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			
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°	474754	474754	474754
5°	502293	469158	444024
10°	521984	452616	409252
15°	511550	431976	377764
20°	494945	411331	347730
25°	461680	382513	317198
30°	416762	338526	283977
35°	343302	289802	235594
40°	280167	223688	181328
45°	240722	169874	130425
50°	217855	129320	82365
55°	200488	93280	29792
60°	192418	63741	4554
65°	185869	43105	1370
70°	166419	29932	1693
75°	136409	15434	0
80°	85293	6557	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809040 4LBSQLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.0	6.5
10°-20°	1242.0	17.6
20°-30°	1658.5	23.5
30°-40°	1574.4	22.3
40°-50°	1088.3	15.4
50°-60°	601.3	8.5
60°-70°	298.6	4.2
70°-80°	117.6	1.7
80°-90°	11.2	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°	3361.5	47.7
0°-40°	4935.9	70.0
0°-60°	6625.6	93.9
0°-90°	7053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7053.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4920	4920	4920	4920	4920	
5°	5186	5139	4844	4625	4584	496
15°	5121	4968	4324	3900	3782	1449
25°	4336	4319	3593	2979	2979	1977
35°	2914	3221	2460	2024	2000	1826
45°	1764	2024	1245	1021	956	1376
55°	1192	1121	554	283	177	1073
65°	814	590	189	6	6	790
75°	366	224	41	0	0	390
85°	0	6	0	0	0	34
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809040 4LBSQLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3
2.5°	4896.8	5032.4	5044.2	5032.4	5050.2	5044.2	5073.8	5044.2	5079.8	5026.7	5038.4
5°	5185.9	5132.8	5244.9	5185.9	5185.9	5180.1	5162.3	5156.3	5180.1	5103.4	5138.8
7.5°	5262.7	5339.4	5439.7	5315.8	5321.6	5321.6	5286.2	5274.4	5274.4	5132.8	5174.1
10°	5327.6	5280.2	5333.4	5286.2	5327.6	5321.6	5345.2	5268.4	5321.6	5239.1	5233.1
12.5°	5274.4	5256.6	5327.6	5250.9	5227.3	5233.1	5203.7	5185.9	5203.7	5109.2	5103.4
15°	5121.0	5138.8	5244.9	5162.3	5150.6	5138.8	5103.4	5044.2	5091.6	4961.7	4967.7
17.5°	5068.0	5038.4	5056.2	4985.3	5003.1	4991.3	4985.3	4932.4	4920.3	4837.8	4837.8
20°	4820.2	4885.0	4885.0	4837.8	4837.8	4832.0	4755.3	4802.5	4749.3	4725.7	4749.3
22.5°	4649.0	4655.0	4655.0	4613.6	4619.6	4596.0	4554.7	4525.1	4554.7	4525.1	4477.9
25°	4336.5	4348.3	4419.0	4342.2	4330.5	4354.0	4318.7	4300.9	4295.1	4224.4	4318.7
27.5°	3958.8	4076.7	4070.9	4041.3	4076.7	4029.5	4011.9	4017.7	4035.5	4029.5	4053.1
30°	3740.6	3758.1	3775.9	3752.4	3758.1	3740.6	3740.6	3746.4	3793.5	3775.9	3769.9
32.5°	3297.9	3356.9	3404.3	3404.3	3410.0	3427.8	3421.8	3545.7	3575.3	3516.4	3504.6
35°	2914.5	2955.9	2997.0	3003.0	3079.7	3085.5	3091.5	3126.9	3209.4	3227.2	3221.2
37.5°	2548.8	2590.0	2601.7	2654.9	2696.3	2737.4	2784.8	2832.0	2902.7	2961.6	2932.3
40°	2224.3	2241.9	2271.4	2295.0	2377.5	2377.5	2401.1	2495.6	2572.4	2619.5	2613.5
42.5°	1952.9	1958.7	1982.3	2023.7	2100.4	2082.6	2100.4	2165.3	2277.2	2283.2	2348.2
45°	1764.1	1758.1	1775.9	1781.6	1829.0	1852.6	1864.4	1911.5	2005.9	2017.6	2023.7
47.5°	1593.0	1587.0	1616.6	1628.4	1646.0	1669.5	1669.5	1675.6	1710.9	1740.5	1716.9
50°	1451.3	1451.3	1451.3	1463.1	1492.7	1486.7	1492.7	1516.3	1533.9	1522.1	1516.3
52.5°	1297.9	1321.4	1339.2	1345.3	1351.0	1351.0	1357.0	1345.3	1339.2	1321.4	1286.1
55°	1191.8	1215.3	1215.3	1215.3	1215.3	1238.9	1209.6	1215.3	1215.3	1168.2	1121.0
57.5°	1085.7	1109.3	1126.8	1103.2	1126.8	1103.2	1091.5	1085.7	1073.7	1026.5	955.8
60°	997.1	1008.9	1002.9	997.1	1008.9	991.1	979.4	955.8	944.0	879.0	831.9
62.5°	896.8	902.6	908.6	896.8	885.0	879.0	855.5	820.1	796.5	743.4	702.0
65°	814.1	796.5	790.5	784.7	772.9	755.1	737.6	696.2	678.4	631.3	589.9
67.5°	690.2	684.4	696.2	678.4	649.0	649.0	631.3	595.9	554.5	525.2	483.8
70°	589.9	584.1	572.3	554.5	548.7	525.2	525.2	483.8	472.0	418.8	383.5
72.5°	483.8	483.8	466.0	448.4	430.6	418.8	413.1	383.5	365.9	336.3	306.7
75°	365.9	365.9	359.9	342.1	330.3	318.5	312.7	289.2	271.4	242.0	224.2
77.5°	259.6	259.6	236.0	224.2	230.0	218.2	206.4	200.6	194.6	177.1	153.5
80°	153.5	147.5	129.9	135.7	129.9	129.9	123.9	117.9	106.1	94.3	82.5
82.5°	41.4	47.2	47.2	47.2	53.2	41.4	41.4	41.4	47.2	47.2	29.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	6.0
87.5°	6.0	11.8	23.6	23.6	23.6	23.6	23.6	17.8	17.8	17.8	11.8
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: LD4C80D010 EX4C809040 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3
2.5°	4979.5	4973.5	4979.5	4938.1	5032.4	4961.7	4949.9	4938.1	4979.5	4938.1	4879.2
5°	5085.6	5026.7	5008.9	4991.3	5044.2	4961.7	4944.1	4949.9	4920.3	4843.8	4849.6
7.5°	5121.0	5068.0	5014.9	4902.8	4949.9	4932.4	4885.0	4849.6	4802.5	4737.5	4725.7
10°	5132.8	5073.8	4997.1	4961.7	4891.0	4867.4	4849.6	4790.7	4731.7	4619.6	4590.0
12.5°	5097.4	5026.7	4932.4	4902.8	4849.6	4772.9	4731.7	4672.5	4619.6	4531.1	4466.1
15°	4944.1	4885.0	4855.6	4755.3	4731.7	4684.3	4601.8	4519.3	4442.6	4324.4	4289.1
17.5°	4767.1	4743.5	4713.9	4637.2	4631.4	4584.3	4507.5	4436.6	4336.5	4153.4	4094.5
20°	4584.3	4584.3	4489.7	4460.4	4519.3	4424.8	4365.8	4300.9	4094.5	4005.9	3899.8
22.5°	4448.6	4383.6	4330.5	4283.3	4289.1	4230.1	4147.6	4017.7	3941.0	3834.9	3711.0
25°	4183.0	4206.6	4088.7	4070.9	4088.7	3952.8	3911.6	3805.3	3693.2	3592.9	3498.6
27.5°	4017.7	3952.8	3876.3	3811.3	3811.3	3758.1	3640.3	3616.7	3445.4	3351.1	3233.0
30°	3769.9	3722.8	3657.8	3563.5	3551.7	3510.4	3416.1	3356.9	3180.1	3038.4	2973.4
32.5°	3457.2	3439.6	3386.5	3280.4	3245.0	3197.6	3079.7	2979.4	2896.9	2737.4	2660.9
35°	3233.0	3168.3	3056.2	2967.6	2938.1	2855.5	2761.0	2690.3	2601.7	2460.3	2360.0
37.5°	2896.9	2832.0	2725.6	2619.5	2619.5	2537.0	2407.1	2336.4	2212.5	2129.7	2047.2
40°	2601.7	2519.2	2413.1	2289.2	2271.4	2153.3	2100.4	1982.3	1905.5	1775.9	1764.1
42.5°	2271.4	2194.7	2100.4	2005.9	1935.1	1876.2	1740.5	1652.0	1569.5	1504.5	1486.7
45°	1970.5	1870.2	1787.7	1669.5	1598.8	1528.1	1439.6	1380.6	1315.7	1244.9	1203.6
47.5°	1710.9	1628.4	1510.3	1404.2	1333.5	1297.9	1197.6	1132.8	1079.7	1032.5	1002.9
50°	1445.6	1345.3	1280.3	1162.2	1150.4	1067.9	985.4	932.2	902.6	861.5	820.1
52.5°	1244.9	1150.4	1061.9	973.6	926.2	896.8	820.1	766.9	725.8	696.2	672.6
55°	1050.1	967.6	896.8	808.3	778.7	737.6	649.0	637.3	595.9	554.5	525.2
57.5°	902.6	825.9	743.4	684.4	631.3	601.9	530.9	483.8	460.2	424.8	395.3
60°	766.9	684.4	619.5	548.7	525.2	483.8	430.6	389.5	359.9	330.3	300.9
62.5°	643.0	572.3	501.6	442.4	407.0	383.5	342.1	306.7	277.4	253.8	230.0
65°	530.9	466.0	407.0	348.1	330.3	300.9	271.4	242.0	218.2	188.8	165.3
67.5°	436.6	377.7	318.5	277.4	259.6	247.8	212.4	182.8	165.3	147.5	123.9
70°	342.1	300.9	253.8	218.2	200.6	182.8	159.3	141.7	117.9	106.1	88.5
72.5°	265.6	230.0	188.8	159.3	147.5	135.7	112.1	94.3	82.5	70.7	58.9
75°	188.8	159.3	135.7	106.1	100.3	94.3	76.7	65.0	53.2	41.4	35.4
77.5°	129.9	106.1	82.5	70.7	65.0	53.2	47.2	35.4	29.6	23.6	17.8
80°	70.7	53.2	41.4	35.4	29.6	23.6	23.6	17.8	11.8	11.8	6.0
82.5°	23.6	17.8	11.8	6.0	6.0	6.0	6.0	6.0	6.0	0.0	6.0
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°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	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: LD4C80D010 EX4C809040 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3
2.5°	4914.6	4849.6	4867.4	4867.4	4855.6	4855.6	4843.8	4826.0	4832.0	4796.4	4719.9
5°	4861.4	4778.9	4767.1	4778.9	4731.7	4719.9	4696.4	4731.7	4625.4	4666.8	4619.6
7.5°	4708.1	4631.4	4613.6	4655.0	4596.0	4560.4	4554.7	4601.8	4507.5	4460.4	4407.2
10°	4536.9	4507.5	4454.4	4424.8	4407.2	4413.0	4365.8	4306.9	4289.1	4277.3	4230.1
12.5°	4383.6	4318.7	4271.5	4236.2	4224.4	4224.4	4147.6	4135.8	4082.7	4070.9	4000.2
15°	4200.6	4124.0	4094.5	4047.3	4005.9	4029.5	3941.0	3917.4	3899.8	3823.1	3834.9
17.5°	4041.3	3958.8	3888.1	3858.5	3823.1	3787.7	3705.0	3722.8	3681.4	3681.4	3575.3
20°	3834.9	3746.4	3693.2	3634.3	3634.3	3587.1	3528.2	3533.9	3480.8	3427.8	3333.3
22.5°	3616.7	3522.2	3457.2	3433.6	3374.7	3362.9	3292.2	3274.4	3203.6	3209.4	3126.9
25°	3386.5	3292.2	3203.6	3209.4	3156.5	3132.9	3091.5	3009.0	2979.4	2944.1	2920.5
27.5°	3115.1	3050.2	2973.4	2967.6	2867.3	2873.1	2820.2	2796.6	2725.6	2743.4	2690.3
30°	2867.3	2773.0	2702.1	2684.5	2643.1	2631.3	2548.8	2513.2	2525.2	2477.8	2448.5
32.5°	2613.5	2472.1	2442.5	2407.1	2383.5	2354.0	2295.0	2318.6	2265.4	2277.2	2230.1
35°	2277.2	2218.3	2141.5	2141.5	2118.0	2094.4	2053.2	2076.8	2023.7	2000.1	1952.9
37.5°	1994.1	1941.1	1864.4	1888.0	1846.6	1811.2	1775.9	1781.6	1734.5	1728.7	1681.3
40°	1687.3	1657.8	1604.8	1604.8	1575.2	1575.2	1557.4	1539.9	1510.3	1474.9	1421.8
42.5°	1398.2	1374.6	1351.0	1357.0	1315.7	1351.0	1303.9	1333.5	1238.9	1233.1	1197.6
45°	1185.8	1132.8	1138.6	1115.0	1091.5	1103.2	1061.9	1073.7	1020.7	1008.9	973.6
47.5°	961.8	944.0	908.6	896.8	896.8	879.0	861.5	855.5	831.9	802.3	755.1
50°	790.5	725.8	713.8	696.2	684.4	684.4	660.8	625.5	631.3	601.9	554.5
52.5°	619.5	566.3	542.7	536.9	513.4	501.6	472.0	448.4	430.6	418.8	389.5
55°	477.8	430.6	401.3	401.3	365.9	365.9	324.5	306.7	283.1	259.6	242.0
57.5°	359.9	336.3	306.7	283.1	271.4	242.0	218.2	188.8	171.0	135.7	112.1
60°	271.4	247.8	218.2	200.6	188.8	159.3	129.9	106.1	65.0	53.2	47.2
62.5°	200.6	177.1	147.5	135.7	123.9	100.3	70.7	35.4	17.8	17.8	17.8
65°	147.5	117.9	94.3	82.5	70.7	53.2	23.6	11.8	6.0	6.0	6.0
67.5°	100.3	76.7	53.2	47.2	35.4	17.8	6.0	6.0	6.0	6.0	6.0
70°	65.0	47.2	23.6	17.8	11.8	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	41.4	23.6	11.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	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	6.0	6.0	6.0
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: LD4C80D010 EX4C809040 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3	4920.3
2.5°	4802.5	4761.1	4784.7	4731.7	4755.3	4796.4	4767.1	4778.9
5°	4637.2	4613.6	4584.3	4507.5	4566.5	4613.6	4590.0	4584.3
7.5°	4460.4	4377.6	4419.0	4395.4	4383.6	4430.8	4377.6	4436.6
10°	4277.3	4218.4	4212.6	4171.2	4171.2	4206.6	4212.6	4177.0
12.5°	4005.9	3976.6	3976.6	3970.6	3964.6	4000.2	4005.9	3988.4
15°	3811.3	3799.5	3769.9	3764.2	3728.8	3781.7	3787.7	3781.7
17.5°	3575.3	3581.1	3551.7	3551.7	3575.3	3592.9	3545.7	3592.9
20°	3416.1	3386.5	3374.7	3321.5	3351.1	3380.7	3380.7	3386.5
22.5°	3185.8	3138.7	3156.5	3126.9	3109.1	3150.5	3150.5	3168.3
25°	2926.3	2926.3	2938.1	2920.5	2932.3	2955.9	2938.1	2979.4
27.5°	2678.5	2702.1	2702.1	2678.5	2690.3	2761.0	2790.6	2743.4
30°	2448.5	2454.3	2472.1	2460.3	2495.6	2519.2	2513.2	2548.8
32.5°	2188.9	2218.3	2230.1	2212.5	2224.3	2277.2	2247.9	2241.9
35°	1988.3	1935.1	1929.3	1935.1	1958.7	1970.5	1958.7	2000.1
37.5°	1699.1	1681.3	1657.8	1663.8	1681.3	1705.1	1716.9	1746.3
40°	1421.8	1398.2	1398.2	1392.4	1374.6	1439.6	1439.6	1439.6
42.5°	1180.0	1174.0	1144.6	1144.6	1168.2	1185.8	1174.0	1215.3
45°	967.6	944.0	926.2	926.2	944.0	944.0	961.8	955.8
47.5°	761.2	737.6	743.4	725.8	743.4	766.9	737.6	743.4
50°	572.3	572.3	560.5	572.3	566.3	572.3	560.5	548.7
52.5°	389.5	442.4	448.4	424.8	371.7	324.5	294.9	318.5
55°	224.2	200.6	200.6	194.6	182.8	177.1	159.3	177.1
57.5°	112.1	100.3	100.3	100.3	94.3	88.5	76.7	76.7
60°	47.2	41.4	41.4	35.4	29.6	23.6	17.8	23.6
62.5°	17.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
65°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
67.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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)