

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: **LD4C100D010 EX4C1009050 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: LD4C100D010 EX4C1009050 4LBSQLWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

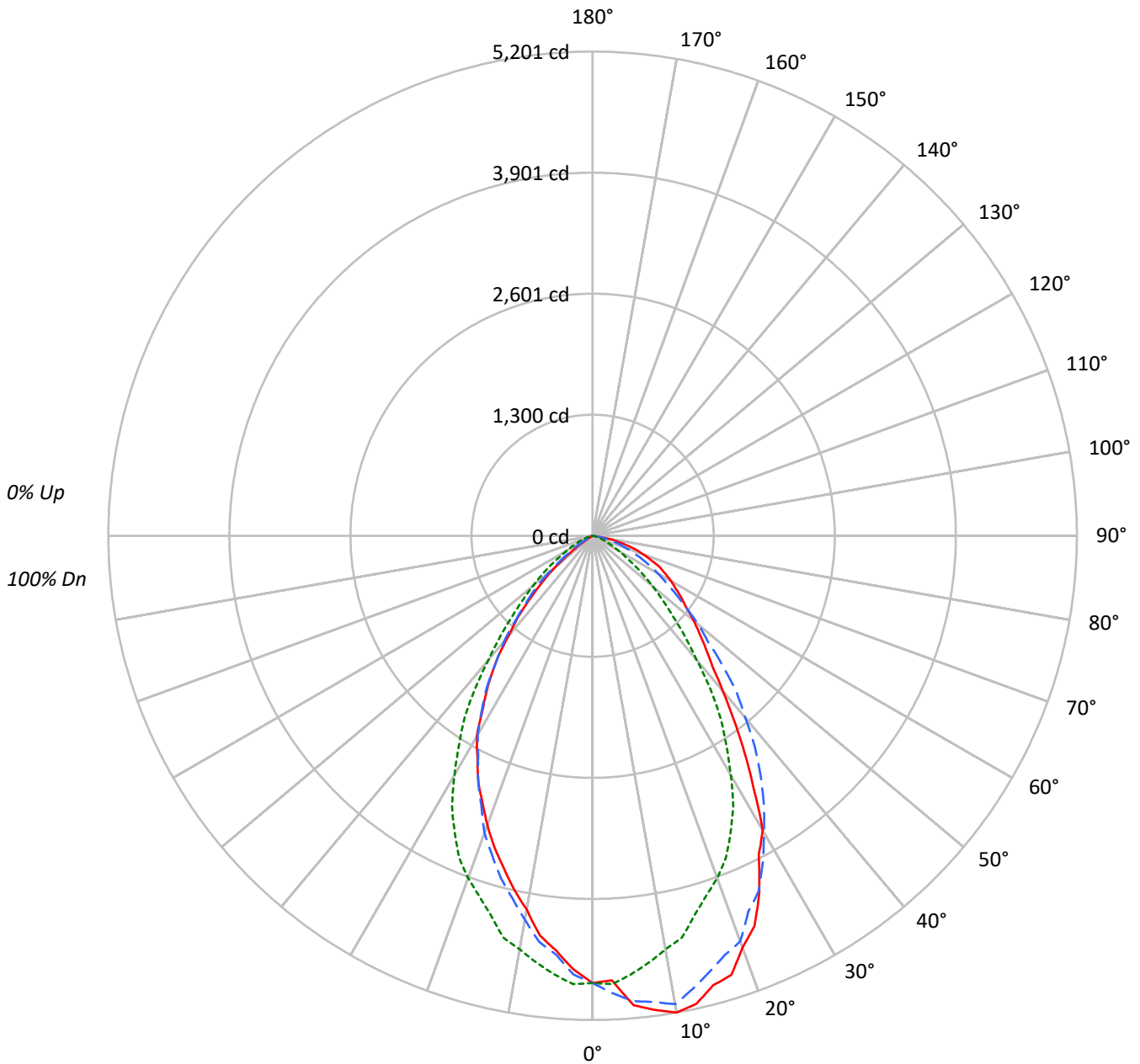
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6885.0 lumens
Efficiency: N/A
Efficacy: 60.2 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): 114.4
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°	463446	463446	463446
5°	490331	457981	433447
10°	509551	441839	399503
15°	499363	421687	368764
20°	483157	401535	339444
25°	450682	373400	309650
30°	406835	330459	277214
35°	335128	282899	229976
40°	273491	218360	177008
45°	234991	165835	127313
50°	212676	126228	80414
55°	195711	91059	29069
60°	187845	62216	4438
65°	181440	42078	1347
70°	162442	29227	1664
75°	133166	15061	0
80°	83237	6390	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	6.5
10°-20°	1212.4	17.6
20°-30°	1619.0	23.5
30°-40°	1536.9	22.3
40°-50°	1062.4	15.4
50°-60°	587.0	8.5
60°-70°	291.5	4.2
70°-80°	114.8	1.7
80°-90°	10.9	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°	3281.5	47.7
0°-40°	4818.4	70.0
0°-60°	6467.7	93.9
0°-90°	6885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6885.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4803	4803	4803	4803	4803	
5°	5062	5016	4728	4515	4475	485
15°	4999	4849	4221	3807	3692	1414
25°	4233	4216	3507	2908	2908	1930
35°	2845	3144	2402	1976	1952	1782
45°	1722	1976	1215	996	933	1343
55°	1163	1094	541	276	173	1047
65°	795	576	184	6	6	771
75°	357	219	40	0	0	381
85°	0	6	0	0	0	33
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°	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1
2.5°	4780.1	4912.6	4924.1	4912.6	4929.9	4924.1	4953.0	4924.1	4958.8	4906.9	4918.4
5°	5062.4	5010.5	5119.9	5062.4	5062.4	5056.7	5039.4	5033.5	5056.7	4981.8	5016.4
7.5°	5137.3	5212.2	5310.1	5189.2	5194.8	5194.8	5160.3	5148.8	5148.8	5010.5	5050.9
10°	5200.7	5154.5	5206.3	5160.3	5200.7	5194.8	5217.9	5142.9	5194.8	5114.3	5108.4
12.5°	5148.8	5131.4	5200.7	5125.8	5102.8	5108.4	5079.8	5062.4	5079.8	4987.5	4981.8
15°	4999.0	5016.4	5119.9	5039.4	5027.9	5016.4	4981.8	4924.1	4970.3	4843.5	4849.4
17.5°	4947.3	4918.4	4935.8	4866.5	4883.9	4872.4	4866.5	4814.9	4803.1	4722.6	4722.6
20°	4705.4	4768.6	4768.6	4722.6	4722.6	4716.9	4642.0	4688.1	4636.2	4613.1	4636.2
22.5°	4538.2	4544.1	4544.1	4503.7	4509.6	4486.6	4446.2	4417.3	4446.2	4417.3	4371.3
25°	4233.2	4244.7	4313.7	4238.8	4227.3	4250.3	4215.8	4198.4	4192.8	4123.7	4215.8
27.5°	3864.5	3979.6	3973.9	3945.0	3979.6	3933.5	3916.4	3922.0	3939.4	3933.5	3956.5
30°	3651.5	3668.6	3686.0	3663.0	3668.6	3651.5	3651.5	3657.1	3703.2	3686.0	3680.1
32.5°	3219.4	3276.9	3323.2	3323.2	3328.8	3346.2	3340.3	3461.3	3490.2	3432.6	3421.1
35°	2845.1	2885.4	2925.6	2931.5	3006.4	3012.0	3017.9	3052.4	3133.0	3150.3	3144.5
37.5°	2488.1	2528.3	2539.8	2591.7	2632.1	2672.2	2718.5	2764.5	2833.5	2891.1	2862.4
40°	2171.3	2188.5	2217.3	2240.3	2320.9	2320.9	2343.9	2436.2	2511.1	2557.1	2551.3
42.5°	1906.4	1912.0	1935.1	1975.5	2050.4	2033.0	2050.4	2113.8	2223.0	2228.8	2292.2
45°	1722.1	1716.2	1733.6	1739.2	1785.5	1808.5	1820.0	1866.0	1958.1	1969.6	1975.5
47.5°	1555.1	1549.2	1578.1	1589.6	1606.8	1629.8	1629.8	1635.6	1670.2	1699.0	1676.0
50°	1416.8	1416.8	1416.8	1428.3	1457.2	1451.3	1457.2	1480.2	1497.3	1485.8	1480.2
52.5°	1267.0	1290.0	1307.3	1313.2	1318.8	1318.8	1324.7	1313.2	1307.3	1290.0	1255.4
55°	1163.4	1186.4	1186.4	1186.4	1186.4	1209.4	1180.8	1186.4	1186.4	1140.4	1094.3
57.5°	1059.8	1082.8	1100.0	1077.0	1100.0	1077.0	1065.5	1059.8	1048.1	1002.1	933.0
60°	973.4	984.9	979.0	973.4	984.9	967.5	956.0	933.0	921.5	858.1	812.1
62.5°	875.5	881.1	887.0	875.5	864.0	858.1	835.1	800.6	777.5	725.6	685.3
65°	794.7	777.5	771.7	766.0	754.5	737.2	720.0	679.6	662.2	616.2	575.8
67.5°	673.8	668.1	679.6	662.2	633.6	633.6	616.2	581.7	541.3	512.6	472.3
70°	575.8	570.2	558.7	541.3	535.7	512.6	512.6	472.3	460.8	408.9	374.3
72.5°	472.3	472.3	454.9	437.7	420.4	408.9	403.2	374.3	357.2	328.3	299.4
75°	357.2	357.2	351.3	333.9	322.4	310.9	305.3	282.3	264.9	236.2	218.9
77.5°	253.4	253.4	230.4	218.9	224.5	213.0	201.5	195.9	190.0	172.8	149.8
80°	149.8	144.0	126.8	132.4	126.8	126.8	120.9	115.1	103.6	92.1	80.6
82.5°	40.4	46.0	46.0	46.0	51.9	40.4	40.4	40.4	46.0	46.0	28.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9
87.5°	5.9	11.5	23.0	23.0	23.0	23.0	23.0	17.4	17.4	17.4	11.5
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°	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1
2.5°	4860.9	4855.0	4860.9	4820.5	4912.6	4843.5	4832.0	4820.5	4860.9	4820.5	4763.0
5°	4964.5	4906.9	4889.6	4872.4	4924.1	4843.5	4826.4	4832.0	4803.1	4728.4	4734.1
7.5°	4999.0	4947.3	4895.4	4786.0	4832.0	4814.9	4768.6	4734.1	4688.1	4624.7	4613.1
10°	5010.5	4953.0	4878.0	4843.5	4774.5	4751.5	4734.1	4676.6	4619.0	4509.6	4480.7
12.5°	4976.0	4906.9	4814.9	4786.0	4734.1	4659.2	4619.0	4561.3	4509.6	4423.2	4359.8
15°	4826.4	4768.6	4740.0	4642.0	4619.0	4572.8	4492.2	4411.7	4336.7	4221.4	4186.9
17.5°	4653.5	4630.5	4601.6	4526.7	4521.1	4475.1	4400.1	4330.9	4233.2	4054.5	3996.9
20°	4475.1	4475.1	4382.8	4354.1	4411.7	4319.4	4261.8	4198.4	3996.9	3910.5	3806.9
22.5°	4342.6	4279.2	4227.3	4181.3	4186.9	4129.4	4048.8	3922.0	3847.1	3743.5	3622.6
25°	4083.4	4106.4	3991.3	3973.9	3991.3	3858.6	3818.5	3714.7	3605.2	3507.3	3415.2
27.5°	3922.0	3858.6	3783.9	3720.5	3720.5	3668.6	3553.6	3530.5	3363.3	3271.3	3156.0
30°	3680.1	3634.1	3570.7	3478.6	3467.1	3426.7	3334.7	3276.9	3104.3	2966.0	2902.6
32.5°	3374.9	3357.7	3305.8	3202.2	3167.7	3121.5	3006.4	2908.5	2827.9	2672.2	2597.5
35°	3156.0	3092.8	2983.4	2897.0	2868.1	2787.5	2695.2	2626.2	2539.8	2401.7	2303.8
37.5°	2827.9	2764.5	2660.7	2557.1	2557.1	2476.6	2349.8	2280.7	2159.8	2079.0	1998.5
40°	2539.8	2459.2	2355.6	2234.7	2217.3	2102.0	2050.4	1935.1	1860.2	1733.6	1722.1
42.5°	2217.3	2142.4	2050.4	1958.1	1889.0	1831.5	1699.0	1612.6	1532.1	1468.7	1451.3
45°	1923.6	1825.6	1745.1	1629.8	1560.7	1491.7	1405.3	1347.7	1284.3	1215.3	1174.9
47.5°	1670.2	1589.6	1474.3	1370.7	1301.7	1267.0	1169.0	1105.8	1054.0	1007.9	979.0
50°	1411.1	1313.2	1249.8	1134.5	1123.0	1042.4	961.9	910.0	881.1	840.9	800.6
52.5°	1215.3	1123.0	1036.6	950.4	904.1	875.5	800.6	748.7	708.5	679.6	656.6
55°	1025.1	944.5	875.5	789.1	760.2	720.0	633.6	622.1	581.7	541.3	512.6
57.5°	881.1	806.2	725.6	668.1	616.2	587.6	518.3	472.3	449.2	414.7	385.8
60°	748.7	668.1	604.7	535.7	512.6	472.3	420.4	380.2	351.3	322.4	293.8
62.5°	627.7	558.7	489.6	431.9	397.3	374.3	333.9	299.4	270.8	247.7	224.5
65°	518.3	454.9	397.3	339.8	322.4	293.8	264.9	236.2	213.0	184.3	161.3
67.5°	426.2	368.7	310.9	270.8	253.4	241.9	207.4	178.5	161.3	144.0	120.9
70°	333.9	293.8	247.7	213.0	195.9	178.5	155.5	138.3	115.1	103.6	86.4
72.5°	259.3	224.5	184.3	155.5	144.0	132.4	109.4	92.1	80.6	69.0	57.5
75°	184.3	155.5	132.4	103.6	97.9	92.1	74.9	63.4	51.9	40.4	34.5
77.5°	126.8	103.6	80.6	69.0	63.4	51.9	46.0	34.5	28.9	23.0	17.4
80°	69.0	51.9	40.4	34.5	28.9	23.0	23.0	17.4	11.5	11.5	5.9
82.5°	23.0	17.4	11.5	5.9	5.9	5.9	5.9	5.9	5.9	0.0	5.9
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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	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°	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1
2.5°	4797.5	4734.1	4751.5	4751.5	4740.0	4740.0	4728.4	4711.1	4716.9	4682.2	4607.5
5°	4745.6	4665.0	4653.5	4665.0	4619.0	4607.5	4584.5	4619.0	4515.2	4555.6	4509.6
7.5°	4596.0	4521.1	4503.7	4544.1	4486.6	4451.8	4446.2	4492.2	4400.1	4354.1	4302.2
10°	4428.8	4400.1	4348.2	4319.4	4302.2	4307.9	4261.8	4204.3	4186.9	4175.4	4129.4
12.5°	4279.2	4215.8	4169.8	4135.2	4123.7	4123.7	4048.8	4037.3	3985.4	3973.9	3904.9
15°	4100.5	4025.8	3996.9	3950.9	3910.5	3933.5	3847.1	3824.1	3806.9	3732.0	3743.5
17.5°	3945.0	3864.5	3795.4	3766.6	3732.0	3697.5	3616.7	3634.1	3593.7	3593.7	3490.2
20°	3743.5	3657.1	3605.2	3547.7	3547.7	3501.7	3444.1	3449.8	3397.9	3346.2	3253.9
22.5°	3530.5	3438.3	3374.9	3351.8	3294.3	3282.8	3213.7	3196.4	3127.3	3133.0	3052.4
25°	3305.8	3213.7	3127.3	3133.0	3081.3	3058.3	3017.9	2937.3	2908.5	2873.9	2850.9
27.5°	3040.9	2977.5	2902.6	2897.0	2799.0	2804.7	2753.0	2730.0	2660.7	2678.1	2626.2
30°	2799.0	2707.0	2637.7	2620.5	2580.2	2568.7	2488.1	2453.4	2465.1	2418.8	2390.2
32.5°	2551.3	2413.2	2384.3	2349.8	2326.8	2297.9	2240.3	2263.4	2211.5	2223.0	2176.9
35°	2223.0	2165.4	2090.5	2090.5	2067.5	2044.5	2004.3	2027.3	1975.5	1952.4	1906.4
37.5°	1946.6	1894.9	1820.0	1843.0	1802.6	1768.1	1733.6	1739.2	1693.2	1687.5	1641.3
40°	1647.1	1618.3	1566.6	1566.6	1537.7	1537.7	1520.3	1503.2	1474.3	1439.8	1387.9
42.5°	1364.9	1341.9	1318.8	1324.7	1284.3	1318.8	1272.8	1301.7	1209.4	1203.8	1169.0
45°	1157.5	1105.8	1111.5	1088.5	1065.5	1077.0	1036.6	1048.1	996.4	984.9	950.4
47.5°	938.9	921.5	887.0	875.5	875.5	858.1	840.9	835.1	812.1	783.2	737.2
50°	771.7	708.5	696.8	679.6	668.1	668.1	645.1	610.6	616.2	587.6	541.3
52.5°	604.7	552.8	529.8	524.2	501.1	489.6	460.8	437.7	420.4	408.9	380.2
55°	466.4	420.4	391.7	391.7	357.2	357.2	316.8	299.4	276.4	253.4	236.2
57.5°	351.3	328.3	299.4	276.4	264.9	236.2	213.0	184.3	167.0	132.4	109.4
60°	264.9	241.9	213.0	195.9	184.3	155.5	126.8	103.6	63.4	51.9	46.0
62.5°	195.9	172.8	144.0	132.4	120.9	97.9	69.0	34.5	17.4	17.4	17.4
65°	144.0	115.1	92.1	80.6	69.0	51.9	23.0	11.5	5.9	5.9	5.9
67.5°	97.9	74.9	51.9	46.0	34.5	17.4	5.9	5.9	5.9	5.9	5.9
70°	63.4	46.0	23.0	17.4	11.5	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	40.4	23.0	11.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.9	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	5.9	5.9	5.9
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: LD4C100D010 EX4C1009050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1	4803.1
2.5°	4688.1	4647.7	4670.7	4619.0	4642.0	4682.2	4653.5	4665.0
5°	4526.7	4503.7	4475.1	4400.1	4457.7	4503.7	4480.7	4475.1
7.5°	4354.1	4273.3	4313.7	4290.7	4279.2	4325.2	4273.3	4330.9
10°	4175.4	4117.9	4112.2	4071.8	4071.8	4106.4	4112.2	4077.5
12.5°	3910.5	3881.9	3881.9	3876.0	3870.1	3904.9	3910.5	3893.4
15°	3720.5	3709.0	3680.1	3674.5	3640.0	3691.6	3697.5	3691.6
17.5°	3490.2	3495.8	3467.1	3467.1	3490.2	3507.3	3461.3	3507.3
20°	3334.7	3305.8	3294.3	3242.4	3271.3	3300.2	3300.2	3305.8
22.5°	3110.0	3063.9	3081.3	3052.4	3035.0	3075.4	3075.4	3092.8
25°	2856.6	2856.6	2868.1	2850.9	2862.4	2885.4	2868.1	2908.5
27.5°	2614.7	2637.7	2637.7	2614.7	2626.2	2695.2	2724.1	2678.1
30°	2390.2	2395.8	2413.2	2401.7	2436.2	2459.2	2453.4	2488.1
32.5°	2136.8	2165.4	2176.9	2159.8	2171.3	2223.0	2194.3	2188.5
35°	1940.9	1889.0	1883.4	1889.0	1912.0	1923.6	1912.0	1952.4
37.5°	1658.7	1641.3	1618.3	1624.1	1641.3	1664.5	1676.0	1704.7
40°	1387.9	1364.9	1364.9	1359.2	1341.9	1405.3	1405.3	1405.3
42.5°	1151.9	1146.0	1117.4	1117.4	1140.4	1157.5	1146.0	1186.4
45°	944.5	921.5	904.1	904.1	921.5	921.5	938.9	933.0
47.5°	743.0	720.0	725.6	708.5	725.6	748.7	720.0	725.6
50°	558.7	558.7	547.2	558.7	552.8	558.7	547.2	535.7
52.5°	380.2	431.9	437.7	414.7	362.8	316.8	287.9	310.9
55°	218.9	195.9	195.9	190.0	178.5	172.8	155.5	172.8
57.5°	109.4	97.9	97.9	97.9	92.1	86.4	74.9	74.9
60°	46.0	40.4	40.4	34.5	28.9	23.0	17.4	23.0
62.5°	17.4	11.5	11.5	11.5	11.5	11.5	11.5	11.5
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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)