

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 EX4C1009040 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 EX4C1009040 4LBSQLWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

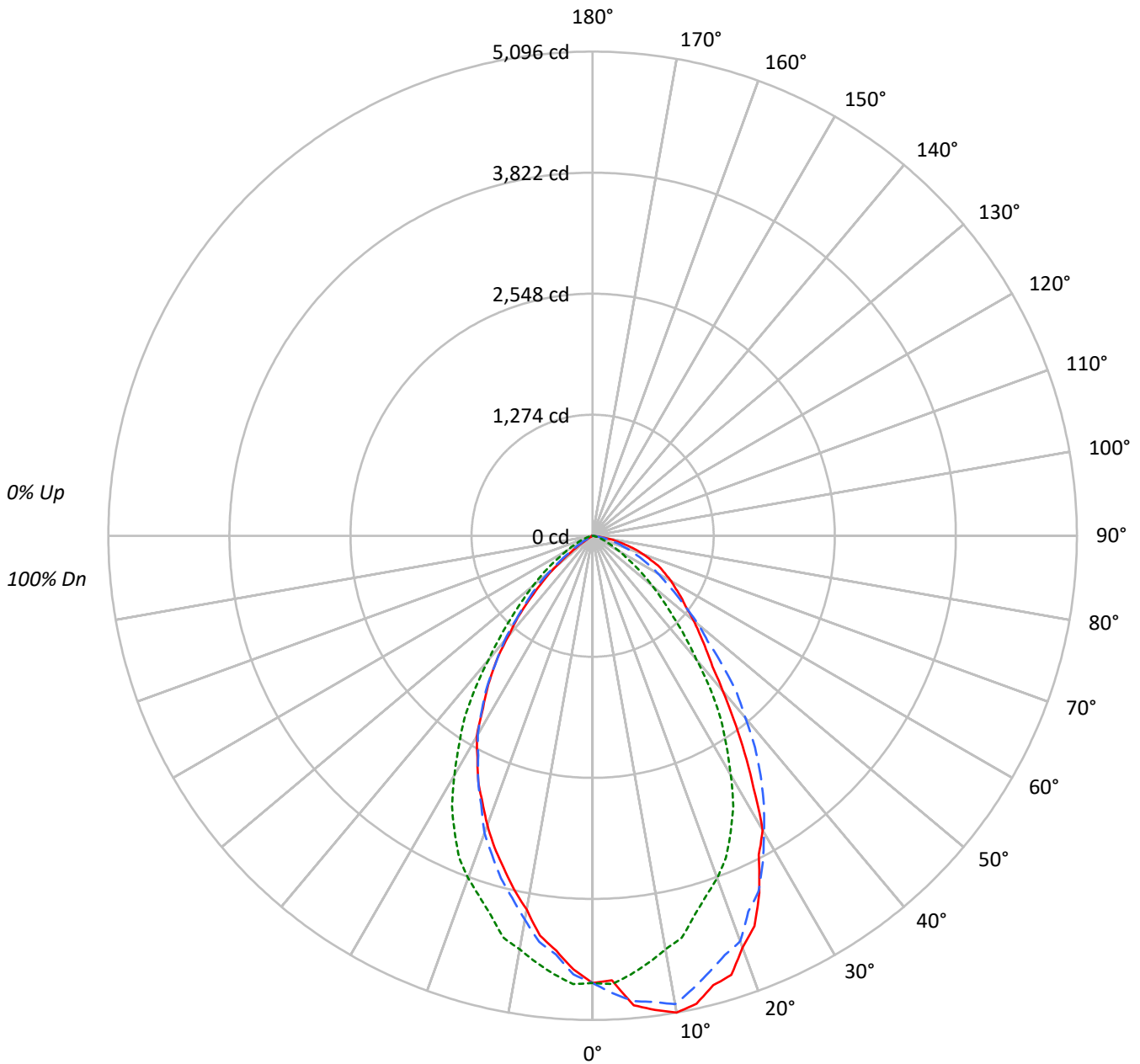
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746.0 lumens
Efficiency: N/A
Efficacy: 59.0 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): 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°	454096	454096	454096
5°	480432	448741	424691
10°	499263	432913	391439
15°	489284	413176	361322
20°	473402	393434	332595
25°	441580	365863	303390
30°	398623	323785	271621
35°	328355	277186	225335
40°	267974	213951	173431
45°	230242	162478	124748
50°	208383	123691	78778
55°	191758	89226	28480
60°	184043	60962	4361
65°	177764	41233	1301
70°	159169	28635	1608
75°	130482	14763	0
80°	81571	6279	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.9	6.5
10°-20°	1188.0	17.6
20°-30°	1586.3	23.5
30°-40°	1505.9	22.3
40°-50°	1040.9	15.4
50°-60°	575.1	8.5
60°-70°	285.6	4.2
70°-80°	112.5	1.7
80°-90°	10.7	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°	3215.2	47.7
0°-40°	4721.1	70.0
0°-60°	6337.1	93.9
0°-90°	6746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6746.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4706	4706	4706	4706	4706	
5°	4960	4915	4633	4424	4385	475
15°	4898	4752	4136	3730	3617	1386
25°	4148	4131	3436	2850	2850	1891
35°	2788	3081	2353	1936	1913	1746
45°	1687	1936	1191	976	914	1316
55°	1140	1072	530	271	169	1026
65°	779	564	181	6	6	756
75°	350	214	40	0	0	373
85°	0	6	0	0	0	32
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°	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2
2.5°	4683.6	4813.4	4824.7	4813.4	4830.4	4824.7	4853.0	4824.7	4858.7	4807.9	4819.1
5°	4960.2	4909.3	5016.6	4960.2	4960.2	4954.7	4937.6	4931.9	4954.7	4881.3	4915.1
7.5°	5033.6	5107.0	5202.9	5084.4	5090.0	5090.0	5056.1	5044.9	5044.9	4909.3	4948.9
10°	5095.7	5050.4	5101.2	5056.1	5095.7	5090.0	5112.5	5039.1	5090.0	5011.0	5005.3
12.5°	5044.9	5027.8	5095.7	5022.3	4999.8	5005.3	4977.2	4960.2	4977.2	4886.8	4881.3
15°	4898.1	4915.1	5016.6	4937.6	4926.4	4915.1	4881.3	4824.7	4870.0	4745.7	4751.5
17.5°	4847.4	4819.1	4836.2	4768.3	4785.3	4774.0	4768.3	4717.7	4706.2	4627.2	4627.2
20°	4610.4	4672.3	4672.3	4627.2	4627.2	4621.7	4548.3	4593.4	4542.6	4520.0	4542.6
22.5°	4446.6	4452.4	4452.4	4412.8	4418.5	4396.0	4356.4	4328.1	4356.4	4328.1	4283.0
25°	4147.7	4159.0	4226.6	4153.2	4142.0	4164.5	4130.7	4113.7	4108.1	4040.5	4130.7
27.5°	3786.5	3899.2	3893.7	3865.4	3899.2	3854.1	3837.3	3842.8	3859.9	3854.1	3876.7
30°	3577.8	3594.6	3611.6	3589.0	3594.6	3577.8	3577.8	3583.3	3628.4	3611.6	3605.8
32.5°	3154.4	3210.8	3256.1	3256.1	3261.6	3278.6	3272.9	3391.4	3419.7	3363.3	3352.0
35°	2787.6	2827.2	2866.5	2872.3	2945.7	2951.2	2957.0	2990.8	3069.7	3086.7	3081.0
37.5°	2437.9	2477.2	2488.5	2539.3	2578.9	2618.3	2663.6	2708.7	2776.3	2832.7	2804.6
40°	2127.5	2144.3	2172.6	2195.1	2274.0	2274.0	2296.6	2387.0	2460.4	2505.5	2499.8
42.5°	1867.9	1873.4	1896.0	1935.6	2009.0	1991.9	2009.0	2071.1	2178.1	2183.8	2246.0
45°	1687.3	1681.5	1698.6	1704.1	1749.4	1772.0	1783.2	1828.3	1918.5	1929.8	1935.6
47.5°	1523.7	1517.9	1546.2	1557.5	1574.3	1596.9	1596.9	1602.6	1636.4	1664.7	1642.2
50°	1388.2	1388.2	1388.2	1399.4	1427.7	1422.0	1427.7	1450.3	1467.1	1455.8	1450.3
52.5°	1241.4	1263.9	1280.9	1286.7	1292.2	1292.2	1298.0	1286.7	1280.9	1263.9	1230.1
55°	1139.9	1162.4	1162.4	1162.4	1162.4	1185.0	1156.9	1162.4	1162.4	1117.3	1072.2
57.5°	1038.4	1061.0	1077.8	1055.2	1077.8	1055.2	1043.9	1038.4	1026.9	981.8	914.2
60°	953.7	965.0	959.3	953.7	965.0	948.0	936.7	914.2	902.9	840.8	795.7
62.5°	857.8	863.3	869.1	857.8	846.5	840.8	818.2	784.4	761.8	711.0	671.4
65°	778.6	761.8	756.1	750.6	739.3	722.3	705.5	665.9	648.9	603.8	564.2
67.5°	660.1	654.6	665.9	648.9	620.8	620.8	603.8	569.9	530.4	502.3	462.7
70°	564.2	558.7	547.4	530.4	524.8	502.3	502.3	462.7	451.4	400.6	366.8
72.5°	462.7	462.7	445.7	428.9	411.9	400.6	395.1	366.8	350.0	321.7	293.4
75°	350.0	350.0	344.2	327.2	315.9	304.7	299.1	276.6	259.5	231.5	214.4
77.5°	248.3	248.3	225.7	214.4	220.0	208.7	197.4	191.9	186.2	169.3	146.8
80°	146.8	141.1	124.2	129.8	124.2	124.2	118.5	112.8	101.5	90.2	78.9
82.5°	39.6	45.1	45.1	45.1	50.8	39.6	39.6	39.6	45.1	45.1	28.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7
87.5°	5.7	11.3	22.6	22.6	22.6	22.6	22.6	17.0	17.0	17.0	11.3
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°	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2
2.5°	4762.8	4757.0	4762.8	4723.2	4813.4	4745.7	4734.5	4723.2	4762.8	4723.2	4666.8
5°	4864.2	4807.9	4790.8	4774.0	4824.7	4745.7	4728.9	4734.5	4706.2	4633.0	4638.5
7.5°	4898.1	4847.4	4796.6	4689.4	4734.5	4717.7	4672.3	4638.5	4593.4	4531.3	4520.0
10°	4909.3	4853.0	4779.6	4745.7	4678.1	4655.5	4638.5	4582.1	4525.8	4418.5	4390.2
12.5°	4875.5	4807.9	4717.7	4689.4	4638.5	4565.1	4525.8	4469.2	4418.5	4333.9	4271.7
15°	4728.9	4672.3	4644.3	4548.3	4525.8	4480.4	4401.5	4322.6	4249.2	4136.2	4102.4
17.5°	4559.6	4537.0	4508.7	4435.3	4429.8	4384.7	4311.3	4243.4	4147.7	3972.6	3916.2
20°	4384.7	4384.7	4294.3	4266.2	4322.6	4232.2	4175.8	4113.7	3916.2	3831.6	3730.1
22.5°	4254.9	4192.8	4142.0	4096.9	4102.4	4046.0	3967.1	3842.8	3769.4	3668.0	3549.5
25°	4000.9	4023.5	3910.7	3893.7	3910.7	3780.7	3741.4	3639.7	3532.4	3436.5	3346.3
27.5°	3842.8	3780.7	3707.5	3645.4	3645.4	3594.6	3481.8	3459.3	3295.4	3205.2	3092.3
30°	3605.8	3560.7	3498.6	3408.4	3397.1	3357.6	3267.4	3210.8	3041.6	2906.1	2844.0
32.5°	3306.7	3289.9	3239.1	3137.6	3103.8	3058.4	2945.7	2849.7	2770.8	2618.3	2545.1
35°	3092.3	3030.4	2923.1	2838.5	2810.2	2731.2	2640.8	2573.2	2488.5	2353.2	2257.2
37.5°	2770.8	2708.7	2607.0	2505.5	2505.5	2426.6	2302.3	2234.7	2116.2	2037.0	1958.1
40°	2488.5	2409.6	2308.1	2189.6	2172.6	2059.6	2009.0	1896.0	1822.6	1698.6	1687.3
42.5°	2172.6	2099.2	2009.0	1918.5	1850.9	1794.5	1664.7	1580.1	1501.1	1439.0	1422.0
45°	1884.7	1788.8	1709.8	1596.9	1529.2	1461.6	1376.9	1320.5	1258.4	1190.7	1151.2
47.5°	1636.4	1557.5	1444.5	1343.1	1275.4	1241.4	1145.4	1083.5	1032.7	987.6	959.3
50°	1382.6	1286.7	1224.6	1111.6	1100.3	1021.4	942.5	891.6	863.3	824.0	784.4
52.5°	1190.7	1100.3	1015.6	931.2	885.9	857.8	784.4	733.5	694.2	665.9	643.3
55°	1004.4	925.4	857.8	773.1	744.8	705.5	620.8	609.5	569.9	530.4	502.3
57.5°	863.3	789.9	711.0	654.6	603.8	575.7	507.8	462.7	440.2	406.3	378.0
60°	733.5	654.6	592.5	524.8	502.3	462.7	411.9	372.5	344.2	315.9	287.8
62.5°	615.0	547.4	479.7	423.2	389.3	366.8	327.2	293.4	265.3	242.7	220.0
65°	507.8	445.7	389.3	332.9	315.9	287.8	259.5	231.5	208.7	180.6	158.1
67.5°	417.6	361.2	304.7	265.3	248.3	237.0	203.2	174.9	158.1	141.1	118.5
70°	327.2	287.8	242.7	208.7	191.9	174.9	152.3	135.5	112.8	101.5	84.7
72.5°	254.0	220.0	180.6	152.3	141.1	129.8	107.2	90.2	78.9	67.7	56.4
75°	180.6	152.3	129.8	101.5	95.9	90.2	73.4	62.1	50.8	39.6	33.8
77.5°	124.2	101.5	78.9	67.7	62.1	50.8	45.1	33.8	28.3	22.6	17.0
80°	67.7	50.8	39.6	33.8	28.3	22.6	22.6	17.0	11.3	11.3	5.7
82.5°	22.6	17.0	11.3	5.7	5.7	5.7	5.7	5.7	5.7	0.0	5.7
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°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	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°	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2
2.5°	4700.6	4638.5	4655.5	4655.5	4644.3	4644.3	4633.0	4616.0	4621.7	4587.7	4514.5
5°	4649.8	4570.9	4559.6	4570.9	4525.8	4514.5	4491.9	4525.8	4424.1	4463.6	4418.5
7.5°	4503.2	4429.8	4412.8	4452.4	4396.0	4361.9	4356.4	4401.5	4311.3	4266.2	4215.4
10°	4339.4	4311.3	4260.5	4232.2	4215.4	4220.9	4175.8	4119.4	4102.4	4091.1	4046.0
12.5°	4192.8	4130.7	4085.6	4051.8	4040.5	4040.5	3967.1	3955.8	3905.0	3893.7	3826.0
15°	4017.7	3944.5	3916.2	3871.1	3831.6	3854.1	3769.4	3746.9	3730.1	3656.7	3668.0
17.5°	3865.4	3786.5	3718.8	3690.5	3656.7	3622.9	3543.7	3560.7	3521.2	3521.2	3419.7
20°	3668.0	3583.3	3532.4	3476.1	3476.1	3431.0	3374.6	3380.1	3329.3	3278.6	3188.2
22.5°	3459.3	3368.8	3306.7	3284.2	3227.8	3216.5	3148.9	3131.8	3064.2	3069.7	2990.8
25°	3239.1	3148.9	3064.2	3069.7	3019.1	2996.5	2957.0	2878.0	2849.7	2815.9	2793.4
27.5°	2979.5	2917.4	2844.0	2838.5	2742.5	2748.0	2697.4	2674.9	2607.0	2624.0	2573.2
30°	2742.5	2652.3	2584.4	2567.6	2528.1	2516.8	2437.9	2403.8	2415.3	2370.0	2341.9
32.5°	2499.8	2364.5	2336.2	2302.3	2279.8	2251.5	2195.1	2217.7	2166.8	2178.1	2133.0
35°	2178.1	2121.7	2048.3	2048.3	2025.8	2003.2	1963.9	1986.4	1935.6	1913.0	1867.9
37.5°	1907.3	1856.6	1783.2	1805.8	1766.2	1732.4	1698.6	1704.1	1659.0	1653.5	1608.1
40°	1613.9	1585.6	1535.0	1535.0	1506.7	1506.7	1489.6	1472.8	1444.5	1410.7	1359.9
42.5°	1337.3	1314.8	1292.2	1298.0	1258.4	1292.2	1247.1	1275.4	1185.0	1179.5	1145.4
45°	1134.1	1083.5	1089.0	1066.5	1043.9	1055.2	1015.6	1026.9	976.3	965.0	931.2
47.5°	919.9	902.9	869.1	857.8	857.8	840.8	824.0	818.2	795.7	767.4	722.3
50°	756.1	694.2	682.7	665.9	654.6	654.6	632.1	598.2	603.8	575.7	530.4
52.5°	592.5	541.6	519.1	513.6	491.0	479.7	451.4	428.9	411.9	400.6	372.5
55°	457.0	411.9	383.8	383.8	350.0	350.0	310.4	293.4	270.8	248.3	231.5
57.5°	344.2	321.7	293.4	270.8	259.5	231.5	208.7	180.6	163.6	129.8	107.2
60°	259.5	237.0	208.7	191.9	180.6	152.3	124.2	101.5	62.1	50.8	45.1
62.5°	191.9	169.3	141.1	129.8	118.5	95.9	67.7	33.8	17.0	17.0	17.0
65°	141.1	112.8	90.2	78.9	67.7	50.8	22.6	11.3	5.7	5.7	5.7
67.5°	95.9	73.4	50.8	45.1	33.8	17.0	5.7	5.7	5.7	5.7	5.7
70°	62.1	45.1	22.6	17.0	11.3	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	39.6	22.6	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.6	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	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	5.7	5.7	5.7
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 EX4C1009040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2	4706.2
2.5°	4593.4	4553.8	4576.4	4525.8	4548.3	4587.7	4559.6	4570.9
5°	4435.3	4412.8	4384.7	4311.3	4367.7	4412.8	4390.2	4384.7
7.5°	4266.2	4187.1	4226.6	4204.1	4192.8	4237.9	4187.1	4243.4
10°	4091.1	4034.7	4029.2	3989.6	3989.6	4023.5	4029.2	3995.2
12.5°	3831.6	3803.5	3803.5	3797.7	3792.0	3826.0	3831.6	3814.8
15°	3645.4	3634.1	3605.8	3600.3	3566.5	3617.1	3622.9	3617.1
17.5°	3419.7	3425.2	3397.1	3397.1	3419.7	3436.5	3391.4	3436.5
20°	3267.4	3239.1	3227.8	3176.9	3205.2	3233.5	3233.5	3239.1
22.5°	3047.2	3002.1	3019.1	2990.8	2973.8	3013.3	3013.3	3030.4
25°	2798.9	2798.9	2810.2	2793.4	2804.6	2827.2	2810.2	2849.7
27.5°	2561.9	2584.4	2584.4	2561.9	2573.2	2640.8	2669.1	2624.0
30°	2341.9	2347.4	2364.5	2353.2	2387.0	2409.6	2403.8	2437.9
32.5°	2093.6	2121.7	2133.0	2116.2	2127.5	2178.1	2150.0	2144.3
35°	1901.7	1850.9	1845.4	1850.9	1873.4	1884.7	1873.4	1913.0
37.5°	1625.2	1608.1	1585.6	1591.3	1608.1	1630.9	1642.2	1670.3
40°	1359.9	1337.3	1337.3	1331.8	1314.8	1376.9	1376.9	1376.9
42.5°	1128.6	1122.9	1094.8	1094.8	1117.3	1134.1	1122.9	1162.4
45°	925.4	902.9	885.9	885.9	902.9	902.9	919.9	914.2
47.5°	728.0	705.5	711.0	694.2	711.0	733.5	705.5	711.0
50°	547.4	547.4	536.1	547.4	541.6	547.4	536.1	524.8
52.5°	372.5	423.2	428.9	406.3	355.5	310.4	282.1	304.7
55°	214.4	191.9	191.9	186.2	174.9	169.3	152.3	169.3
57.5°	107.2	95.9	95.9	95.9	90.2	84.7	73.4	73.4
60°	45.1	39.6	39.6	33.8	28.3	22.6	17.0	22.6
62.5°	17.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3
65°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
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)