

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 EX4C1009035 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 EX4C1009035 4LBSQLWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

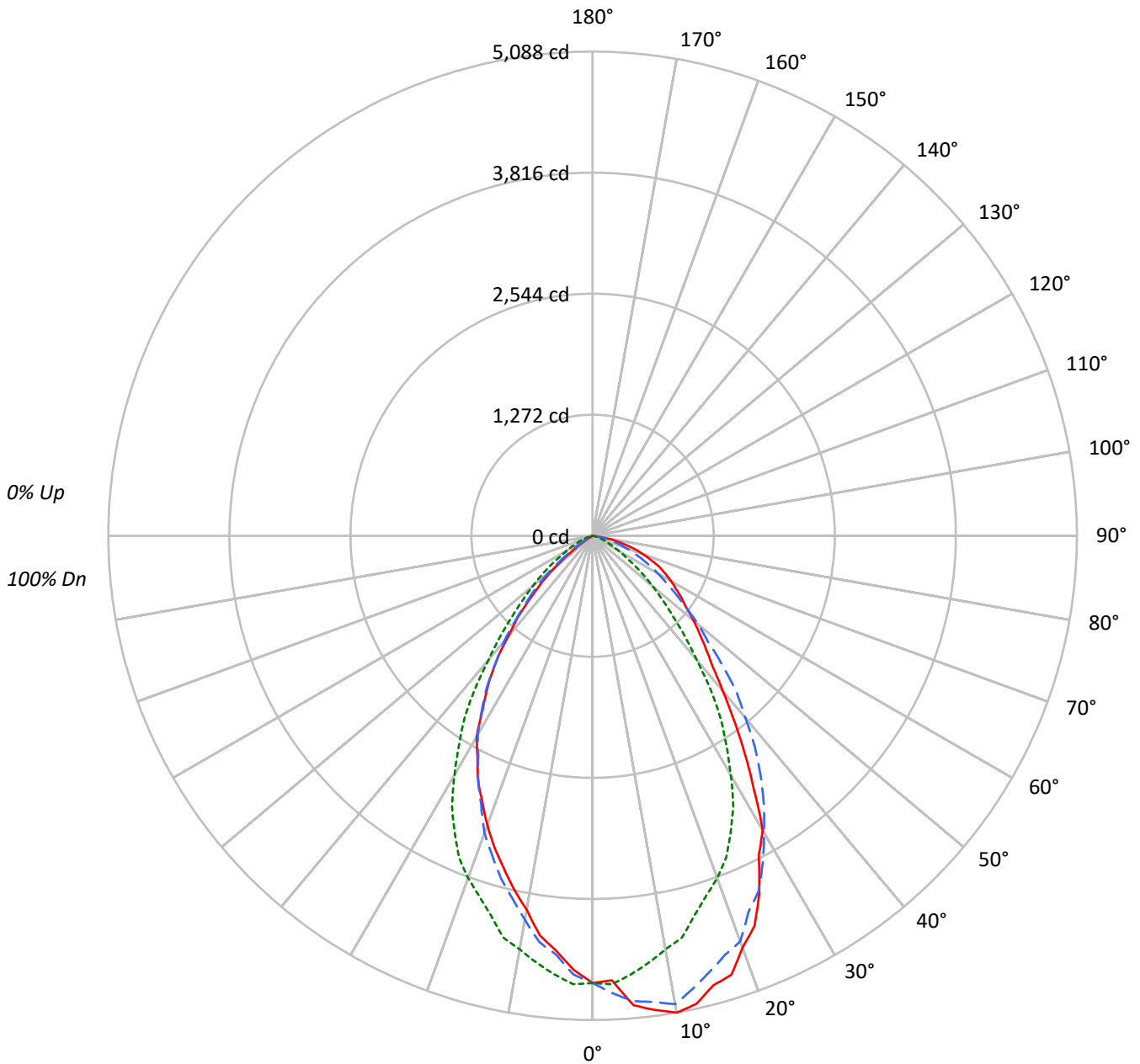
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736.0 lumens
Efficiency: N/A
Efficacy: 58.9 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°	453421	453421	453421
5°	479716	448072	424061
10°	498529	432276	390851
15°	488555	412567	360792
20°	472704	392849	332102
25°	440930	365320	302943
30°	398033	323306	271219
35°	327872	276774	225005
40°	267571	213636	173179
45°	229901	162246	124557
50°	208068	123496	78673
55°	191472	89091	28447
60°	183773	60884	4342
65°	177513	41188	1301
70°	158943	28578	1608
75°	130295	14726	0
80°	81459	6279	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	6.5
10°-20°	1186.2	17.6
20°-30°	1584.0	23.5
30°-40°	1503.6	22.3
40°-50°	1039.4	15.4
50°-60°	574.3	8.5
60°-70°	285.2	4.2
70°-80°	112.4	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°	3210.5	47.7
0°-40°	4714.1	70.0
0°-60°	6327.8	93.9
0°-90°	6736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6736.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4699	4699	4699	4699	4699	
5°	4953	4908	4626	4418	4378	474
15°	4891	4744	4130	3725	3612	1384
25°	4142	4125	3431	2846	2846	1888
35°	2784	3076	2350	1933	1910	1744
45°	1685	1933	1189	975	913	1314
55°	1138	1071	530	270	169	1024
65°	778	563	180	6	6	755
75°	350	214	40	0	0	372
85°	0	6	0	0	0	32
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°	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2
2.5°	4676.7	4806.3	4817.5	4806.3	4823.3	4817.5	4845.8	4817.5	4851.5	4800.7	4812.0
5°	4952.8	4902.1	5009.1	4952.8	4952.8	4947.3	4930.3	4924.6	4947.3	4874.0	4907.8
7.5°	5026.1	5099.4	5195.2	5076.9	5082.4	5082.4	5048.6	5037.4	5037.4	4902.1	4941.6
10°	5088.2	5042.9	5093.7	5048.6	5088.2	5082.4	5104.9	5031.6	5082.4	5003.6	4997.9
12.5°	5037.4	5020.4	5088.2	5014.9	4992.3	4997.9	4969.8	4952.8	4969.8	4879.5	4874.0
15°	4890.8	4907.8	5009.1	4930.3	4919.1	4907.8	4874.0	4817.5	4862.8	4738.7	4744.4
17.5°	4840.2	4812.0	4829.0	4761.2	4778.2	4767.0	4761.2	4710.7	4699.2	4620.4	4620.4
20°	4603.6	4665.4	4665.4	4620.4	4620.4	4614.9	4541.6	4586.6	4535.8	4513.3	4535.8
22.5°	4440.0	4445.8	4445.8	4406.2	4412.0	4389.5	4350.0	4321.7	4350.0	4321.7	4276.7
25°	4141.6	4152.8	4220.4	4147.1	4135.8	4158.3	4124.6	4107.6	4102.0	4034.5	4124.6
27.5°	3780.9	3893.4	3887.9	3859.7	3893.4	3848.4	3831.6	3837.1	3854.1	3848.4	3870.9
30°	3572.5	3589.2	3606.2	3583.7	3589.2	3572.5	3572.5	3578.0	3623.0	3606.2	3600.5
32.5°	3149.7	3206.0	3251.3	3251.3	3256.8	3273.8	3268.0	3386.4	3414.6	3358.3	3347.1
35°	2783.5	2823.0	2862.3	2868.0	2941.3	2946.8	2952.6	2986.4	3065.2	3082.2	3076.4
37.5°	2434.3	2473.5	2484.8	2535.6	2575.1	2614.4	2659.6	2704.7	2772.2	2828.5	2800.5
40°	2124.3	2141.1	2169.3	2191.9	2270.7	2270.7	2293.2	2383.5	2456.8	2501.8	2496.1
42.5°	1865.1	1870.7	1893.2	1932.7	2006.0	1989.0	2006.0	2068.0	2174.9	2180.6	2242.6
45°	1684.8	1679.1	1696.1	1701.6	1746.8	1769.3	1780.6	1825.6	1915.7	1927.0	1932.7
47.5°	1521.4	1515.7	1544.0	1555.2	1572.0	1594.5	1594.5	1600.2	1634.0	1662.3	1639.8
50°	1386.1	1386.1	1386.1	1397.4	1425.6	1419.9	1425.6	1448.1	1464.9	1453.7	1448.1
52.5°	1239.5	1262.0	1279.0	1284.8	1290.3	1290.3	1296.0	1284.8	1279.0	1262.0	1228.3
55°	1138.2	1160.7	1160.7	1160.7	1160.7	1183.2	1155.2	1160.7	1160.7	1115.7	1070.7
57.5°	1036.9	1059.4	1076.2	1053.7	1076.2	1053.7	1042.4	1036.9	1025.4	980.4	912.8
60°	952.3	963.6	957.9	952.3	963.6	946.6	935.3	912.8	901.6	839.5	794.5
62.5°	856.5	862.0	867.8	856.5	845.3	839.5	817.0	783.2	760.7	709.9	670.4
65°	777.5	760.7	755.0	749.5	738.2	721.2	704.4	664.9	647.9	602.9	563.4
67.5°	659.2	653.7	664.9	647.9	619.9	619.9	602.9	569.1	529.6	501.6	462.0
70°	563.4	557.8	546.6	529.6	524.1	501.6	501.6	462.0	450.8	400.0	366.2
72.5°	462.0	462.0	445.0	428.3	411.3	400.0	394.5	366.2	349.5	321.2	292.9
75°	349.5	349.5	343.7	326.7	315.5	304.2	298.7	276.2	259.2	231.1	214.1
77.5°	247.9	247.9	225.4	214.1	219.7	208.4	197.1	191.6	185.9	169.1	146.6
80°	146.6	140.8	124.1	129.6	124.1	124.1	118.3	112.6	101.3	90.1	78.8
82.5°	39.5	45.0	45.0	45.0	50.8	39.5	39.5	39.5	45.0	45.0	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	22.5	22.5	22.5	22.5	22.5	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°	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2
2.5°	4755.7	4750.0	4755.7	4716.2	4806.3	4738.7	4727.4	4716.2	4755.7	4716.2	4659.9
5°	4857.0	4800.7	4783.7	4767.0	4817.5	4738.7	4721.9	4727.4	4699.2	4626.1	4631.6
7.5°	4890.8	4840.2	4789.5	4682.4	4727.4	4710.7	4665.4	4631.6	4586.6	4524.6	4513.3
10°	4902.1	4845.8	4772.5	4738.7	4671.2	4648.6	4631.6	4575.3	4519.1	4412.0	4383.7
12.5°	4868.3	4800.7	4710.7	4682.4	4631.6	4558.3	4519.1	4462.5	4412.0	4327.4	4265.4
15°	4721.9	4665.4	4637.4	4541.6	4519.1	4473.8	4395.0	4316.2	4242.9	4130.1	4096.3
17.5°	4552.8	4530.3	4502.1	4428.8	4423.2	4378.2	4304.9	4237.1	4141.6	3966.7	3910.4
20°	4378.2	4378.2	4287.9	4259.9	4316.2	4225.9	4169.6	4107.6	3910.4	3825.9	3724.6
22.5°	4248.6	4186.6	4135.8	4090.8	4096.3	4040.0	3961.2	3837.1	3763.9	3662.5	3544.2
25°	3995.0	4017.5	3904.9	3887.9	3904.9	3775.1	3735.8	3634.3	3527.2	3431.4	3341.3
27.5°	3837.1	3775.1	3702.0	3640.0	3640.0	3589.2	3476.7	3454.1	3290.6	3200.5	3087.7
30°	3600.5	3555.5	3493.4	3403.4	3392.1	3352.6	3262.5	3206.0	3037.1	2901.8	2839.8
32.5°	3301.8	3285.0	3234.3	3132.9	3099.2	3053.9	2941.3	2845.5	2766.7	2614.4	2541.3
35°	3087.7	3025.9	2918.8	2834.3	2806.0	2727.2	2636.9	2569.4	2484.8	2349.7	2253.9
37.5°	2766.7	2704.7	2603.1	2501.8	2501.8	2423.0	2298.9	2231.4	2113.1	2034.0	1955.2
40°	2484.8	2406.0	2304.7	2186.3	2169.3	2056.5	2006.0	1893.2	1819.9	1696.1	1684.8
42.5°	2169.3	2096.1	2006.0	1915.7	1848.2	1791.9	1662.3	1577.7	1498.9	1436.9	1419.9
45°	1881.9	1786.1	1707.3	1594.5	1527.0	1459.4	1374.9	1318.6	1256.5	1189.0	1149.5
47.5°	1634.0	1555.2	1442.4	1341.1	1273.5	1239.5	1143.7	1081.9	1031.1	986.1	957.9
50°	1380.6	1284.8	1222.8	1110.0	1098.7	1019.9	941.1	890.3	862.0	822.7	783.2
52.5°	1189.0	1098.7	1014.1	929.8	884.6	856.5	783.2	732.5	693.2	664.9	642.4
55°	1002.9	924.1	856.5	772.0	743.7	704.4	619.9	608.6	569.1	529.6	501.6
57.5°	862.0	788.8	709.9	653.7	602.9	574.8	507.1	462.0	439.5	405.7	377.5
60°	732.5	653.7	591.6	524.1	501.6	462.0	411.3	372.0	343.7	315.5	287.4
62.5°	614.1	546.6	479.0	422.5	388.7	366.2	326.7	292.9	264.9	242.4	219.7
65°	507.1	445.0	388.7	332.5	315.5	287.4	259.2	231.1	208.4	180.4	157.8
67.5°	417.0	360.7	304.2	264.9	247.9	236.6	202.9	174.6	157.8	140.8	118.3
70°	326.7	287.4	242.4	208.4	191.6	174.6	152.1	135.3	112.6	101.3	84.5
72.5°	253.6	219.7	180.4	152.1	140.8	129.6	107.1	90.1	78.8	67.6	56.3
75°	180.4	152.1	129.6	101.3	95.8	90.1	73.3	62.0	50.8	39.5	33.8
77.5°	124.1	101.3	78.8	67.6	62.0	50.8	45.0	33.8	28.3	22.5	17.0
80°	67.6	50.8	39.5	33.8	28.3	22.5	22.5	17.0	11.3	11.3	5.7
82.5°	22.5	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°	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2
2.5°	4693.7	4631.6	4648.6	4648.6	4637.4	4637.4	4626.1	4609.1	4614.9	4580.9	4507.8
5°	4642.9	4564.1	4552.8	4564.1	4519.1	4507.8	4485.3	4519.1	4417.5	4457.0	4412.0
7.5°	4496.5	4423.2	4406.2	4445.8	4389.5	4355.5	4350.0	4395.0	4304.9	4259.9	4209.1
10°	4333.0	4304.9	4254.1	4225.9	4209.1	4214.6	4169.6	4113.3	4096.3	4085.1	4040.0
12.5°	4186.6	4124.6	4079.5	4045.8	4034.5	4034.5	3961.2	3949.9	3899.2	3887.9	3820.4
15°	4011.8	3938.7	3910.4	3865.4	3825.9	3848.4	3763.9	3741.3	3724.6	3651.3	3662.5
17.5°	3859.7	3780.9	3713.3	3685.0	3651.3	3617.5	3538.5	3555.5	3515.9	3515.9	3414.6
20°	3662.5	3578.0	3527.2	3470.9	3470.9	3425.9	3369.6	3375.1	3324.3	3273.8	3183.5
22.5°	3454.1	3363.8	3301.8	3279.3	3223.0	3211.7	3144.2	3127.2	3059.6	3065.2	2986.4
25°	3234.3	3144.2	3059.6	3065.2	3014.6	2992.1	2952.6	2873.8	2845.5	2811.7	2789.2
27.5°	2975.1	2913.1	2839.8	2834.3	2738.5	2744.0	2693.4	2670.9	2603.1	2620.1	2569.4
30°	2738.5	2648.4	2580.6	2563.8	2524.3	2513.1	2434.3	2400.3	2411.7	2366.5	2338.4
32.5°	2496.1	2361.0	2332.7	2298.9	2276.4	2248.2	2191.9	2214.4	2163.6	2174.9	2129.8
35°	2174.9	2118.6	2045.3	2045.3	2022.8	2000.3	1961.0	1983.5	1932.7	1910.2	1865.1
37.5°	1904.4	1853.9	1780.6	1803.1	1763.6	1729.8	1696.1	1701.6	1656.5	1651.0	1605.8
40°	1611.5	1583.2	1532.7	1532.7	1504.4	1504.4	1487.4	1470.7	1442.4	1408.6	1357.9
42.5°	1335.3	1312.8	1290.3	1296.0	1256.5	1290.3	1245.3	1273.5	1183.2	1177.7	1143.7
45°	1132.5	1081.9	1087.4	1064.9	1042.4	1053.7	1014.1	1025.4	974.8	963.6	929.8
47.5°	918.6	901.6	867.8	856.5	856.5	839.5	822.7	817.0	794.5	766.2	721.2
50°	755.0	693.2	681.7	664.9	653.7	653.7	631.1	597.4	602.9	574.8	529.6
52.5°	591.6	540.8	518.3	512.8	490.3	479.0	450.8	428.3	411.3	400.0	372.0
55°	456.3	411.3	383.2	383.2	349.5	349.5	309.9	292.9	270.4	247.9	231.1
57.5°	343.7	321.2	292.9	270.4	259.2	231.1	208.4	180.4	163.4	129.6	107.1
60°	259.2	236.6	208.4	191.6	180.4	152.1	124.1	101.3	62.0	50.8	45.0
62.5°	191.6	169.1	140.8	129.6	118.3	95.8	67.6	33.8	17.0	17.0	17.0
65°	140.8	112.6	90.1	78.8	67.6	50.8	22.5	11.3	5.7	5.7	5.7
67.5°	95.8	73.3	50.8	45.0	33.8	17.0	5.7	5.7	5.7	5.7	5.7
70°	62.0	45.0	22.5	17.0	11.3	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	39.5	22.5	11.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.5	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 EX4C1009035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2	4699.2
2.5°	4586.6	4547.1	4569.6	4519.1	4541.6	4580.9	4552.8	4564.1
5°	4428.8	4406.2	4378.2	4304.9	4361.2	4406.2	4383.7	4378.2
7.5°	4259.9	4180.9	4220.4	4197.9	4186.6	4231.6	4180.9	4237.1
10°	4085.1	4028.8	4023.2	3983.7	3983.7	4017.5	4023.2	3989.2
12.5°	3825.9	3797.8	3797.8	3792.1	3786.4	3820.4	3825.9	3809.1
15°	3640.0	3628.8	3600.5	3595.0	3561.2	3611.8	3617.5	3611.8
17.5°	3414.6	3420.1	3392.1	3392.1	3414.6	3431.4	3386.4	3431.4
20°	3262.5	3234.3	3223.0	3172.2	3200.5	3228.7	3228.7	3234.3
22.5°	3042.7	2997.6	3014.6	2986.4	2969.4	3008.9	3008.9	3025.9
25°	2794.7	2794.7	2806.0	2789.2	2800.5	2823.0	2806.0	2845.5
27.5°	2558.1	2580.6	2580.6	2558.1	2569.4	2636.9	2665.2	2620.1
30°	2338.4	2344.0	2361.0	2349.7	2383.5	2406.0	2400.3	2434.3
32.5°	2090.5	2118.6	2129.8	2113.1	2124.3	2174.9	2146.8	2141.1
35°	1898.9	1848.2	1842.6	1848.2	1870.7	1881.9	1870.7	1910.2
37.5°	1622.8	1605.8	1583.2	1589.0	1605.8	1628.5	1639.8	1667.8
40°	1357.9	1335.3	1335.3	1329.8	1312.8	1374.9	1374.9	1374.9
42.5°	1126.9	1121.2	1093.2	1093.2	1115.7	1132.5	1121.2	1160.7
45°	924.1	901.6	884.6	884.6	901.6	901.6	918.6	912.8
47.5°	726.9	704.4	709.9	693.2	709.9	732.5	704.4	709.9
50°	546.6	546.6	535.3	546.6	540.8	546.6	535.3	524.1
52.5°	372.0	422.5	428.3	405.7	355.0	309.9	281.7	304.2
55°	214.1	191.6	191.6	185.9	174.6	169.1	152.1	169.1
57.5°	107.1	95.8	95.8	95.8	90.1	84.5	73.3	73.3
60°	45.0	39.5	39.5	33.8	28.3	22.5	17.0	22.5
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)