

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: **LD4C75D010 EX4C759027 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: LD4C75D010 EX4C759027 4LBSQLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

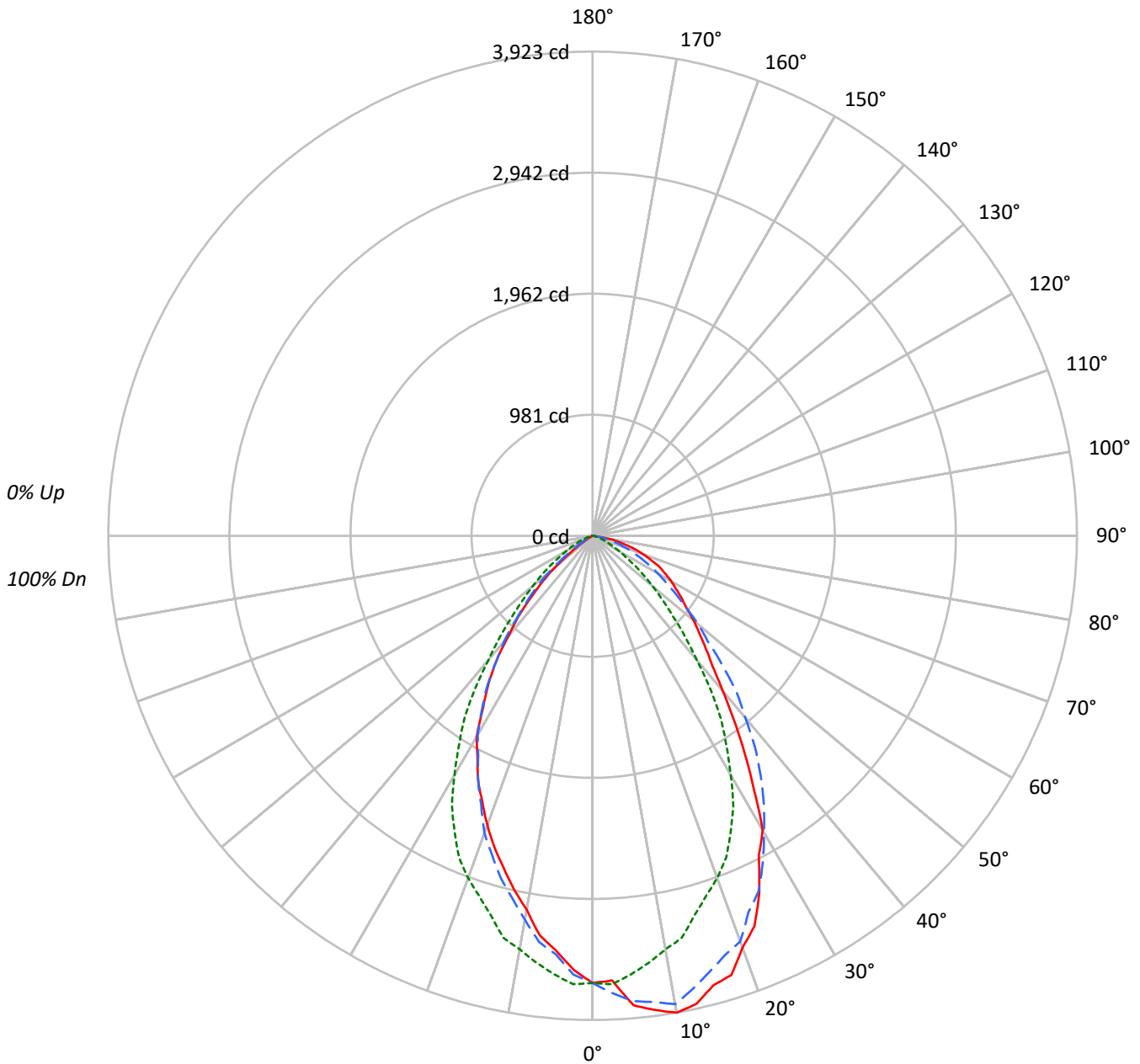
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 63.7 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): 81.5
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

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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°	349628	349628	349628
5°	369899	345500	326991
10°	384404	333319	301378
15°	376715	318118	278201
20°	364488	302920	256077
25°	339992	281692	233592
30°	306917	249293	209127
35°	252815	213414	173495
40°	206318	164727	133527
45°	177270	125103	96051
50°	160438	95230	60659
55°	147633	68702	21936
60°	141704	46932	3358
65°	136873	31758	1005
70°	122551	22033	1241
75°	100471	11371	0
80°	62789	4834	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	6.5
10°-20°	914.7	17.6
20°-30°	1221.4	23.5
30°-40°	1159.4	22.3
40°-50°	801.4	15.4
50°-60°	442.8	8.5
60°-70°	219.9	4.2
70°-80°	86.6	1.7
80°-90°	8.2	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°	2475.5	47.7
0°-40°	3635.0	70.0
0°-60°	4879.2	93.9
0°-90°	5194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3624	3624	3624	3624	3624	
5°	3819	3784	3567	3406	3376	366
15°	3771	3658	3185	2872	2785	1067
25°	3194	3180	2646	2194	2194	1456
35°	2146	2372	1812	1490	1473	1345
45°	1299	1490	917	752	704	1013
55°	878	826	408	208	130	790
65°	600	434	139	4	4	582
75°	270	165	30	0	0	287
85°	0	4	0	0	0	25
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°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3606.1	3706.0	3714.7	3706.0	3719.1	3714.7	3736.5	3714.7	3740.9	3701.8	3710.4
5°	3819.0	3779.9	3862.4	3819.0	3819.0	3814.8	3801.7	3797.2	3814.8	3758.3	3784.3
7.5°	3875.5	3932.1	4005.9	3914.7	3919.0	3919.0	3892.9	3884.2	3884.2	3779.9	3810.4
10°	3923.4	3888.5	3927.6	3892.9	3923.4	3919.0	3936.3	3879.8	3919.0	3858.2	3853.8
12.5°	3884.2	3871.1	3923.4	3866.9	3849.5	3853.8	3832.1	3819.0	3832.1	3762.5	3758.3
15°	3771.2	3784.3	3862.4	3801.7	3793.0	3784.3	3758.3	3714.7	3749.6	3653.9	3658.3
17.5°	3732.2	3710.4	3723.5	3671.3	3684.4	3675.7	3671.3	3632.3	3623.5	3562.7	3562.7
20°	3549.7	3597.4	3597.4	3562.7	3562.7	3558.4	3501.9	3536.6	3497.5	3480.1	3497.5
22.5°	3423.6	3428.0	3428.0	3397.6	3402.0	3384.6	3354.2	3332.4	3354.2	3332.4	3297.7
25°	3193.5	3202.2	3254.2	3197.7	3189.1	3206.4	3180.4	3167.3	3163.0	3110.9	3180.4
27.5°	2915.3	3002.2	2997.9	2976.1	3002.2	2967.4	2954.5	2958.7	2971.9	2967.4	2984.8
30°	2754.7	2767.6	2780.7	2763.3	2767.6	2754.7	2754.7	2758.9	2793.6	2780.7	2776.3
32.5°	2428.7	2472.1	2507.0	2507.0	2511.2	2524.3	2519.9	2611.2	2632.9	2589.5	2580.9
35°	2146.3	2176.8	2207.1	2211.5	2268.0	2272.3	2276.7	2302.7	2363.5	2376.6	2372.2
37.5°	1877.0	1907.3	1916.0	1955.1	1985.6	2015.9	2050.8	2085.5	2137.6	2181.0	2159.4
40°	1638.0	1651.0	1672.7	1690.1	1750.9	1750.9	1768.2	1837.9	1894.4	1929.1	1924.7
42.5°	1438.2	1442.4	1459.8	1490.3	1546.8	1533.7	1546.8	1594.6	1677.0	1681.4	1729.3
45°	1299.1	1294.7	1307.8	1312.0	1346.9	1364.3	1373.0	1407.7	1477.2	1485.8	1490.3
47.5°	1173.1	1168.7	1190.5	1199.2	1212.1	1229.5	1229.5	1233.9	1260.0	1281.7	1264.4
50°	1068.8	1068.8	1068.8	1077.5	1099.3	1094.8	1099.3	1116.6	1129.6	1120.9	1116.6
52.5°	955.8	973.1	986.2	990.7	994.9	994.9	999.4	990.7	986.2	973.1	947.1
55°	877.6	895.0	895.0	895.0	895.0	912.4	890.8	895.0	895.0	860.3	825.6
57.5°	799.5	816.9	829.8	812.5	829.8	812.5	803.8	799.5	790.7	755.9	703.9
60°	734.3	743.0	738.6	734.3	743.0	729.9	721.2	703.9	695.2	647.3	612.6
62.5°	660.4	664.7	669.1	660.4	651.8	647.3	630.0	603.9	586.6	547.4	517.0
65°	599.5	586.6	582.1	577.9	569.2	556.1	543.2	512.7	499.6	464.9	434.4
67.5°	508.3	504.0	512.7	499.6	478.0	478.0	464.9	438.8	408.4	386.7	356.3
70°	434.4	430.1	421.5	408.4	404.1	386.7	386.7	356.3	347.6	308.4	282.4
72.5°	356.3	356.3	343.2	330.2	317.1	308.4	304.2	282.4	269.5	247.7	225.9
75°	269.5	269.5	265.0	251.9	243.2	234.6	230.3	212.9	199.8	178.2	165.1
77.5°	191.2	191.2	173.8	165.1	169.4	160.7	152.0	147.8	143.3	130.4	113.0
80°	113.0	108.6	95.7	99.9	95.7	95.7	91.2	86.8	78.1	69.4	60.8
82.5°	30.5	34.7	34.7	34.7	39.2	30.5	30.5	30.5	34.7	34.7	21.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4
87.5°	4.4	8.7	17.4	17.4	17.4	17.4	17.4	13.1	13.1	13.1	8.7
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°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3667.0	3662.6	3667.0	3636.6	3706.0	3653.9	3645.2	3636.6	3667.0	3636.6	3593.2
5°	3745.2	3701.8	3688.6	3675.7	3714.7	3653.9	3641.0	3645.2	3623.5	3567.1	3571.4
7.5°	3771.2	3732.2	3693.1	3610.5	3645.2	3632.3	3597.4	3571.4	3536.6	3488.8	3480.1
10°	3779.9	3736.5	3680.0	3653.9	3601.8	3584.5	3571.4	3528.0	3484.6	3402.0	3380.2
12.5°	3753.8	3701.8	3632.3	3610.5	3571.4	3514.9	3484.6	3441.0	3402.0	3336.8	3289.0
15°	3641.0	3597.4	3575.8	3501.9	3484.6	3449.7	3388.9	3328.1	3271.6	3184.6	3158.6
17.5°	3510.6	3493.2	3471.4	3414.9	3410.7	3376.0	3319.4	3267.2	3193.5	3058.7	3015.3
20°	3376.0	3376.0	3306.3	3284.7	3328.1	3258.5	3215.1	3167.3	3015.3	2950.1	2871.9
22.5°	3276.0	3228.2	3189.1	3154.3	3158.6	3115.2	3054.4	2958.7	2902.2	2824.1	2732.9
25°	3080.5	3097.8	3011.0	2997.9	3011.0	2910.9	2880.6	2802.3	2719.8	2645.9	2576.4
27.5°	2958.7	2910.9	2854.6	2806.7	2806.7	2767.6	2680.8	2663.4	2537.3	2467.8	2380.9
30°	2776.3	2741.5	2693.7	2624.3	2615.6	2585.1	2515.7	2472.1	2341.9	2237.5	2189.7
32.5°	2546.0	2533.0	2493.9	2415.7	2389.7	2354.8	2268.0	2194.1	2133.4	2015.9	1959.6
35°	2380.9	2333.2	2250.6	2185.4	2163.7	2102.9	2033.3	1981.2	1916.0	1811.8	1737.9
37.5°	2133.4	2085.5	2007.2	1929.1	1929.1	1868.3	1772.7	1720.6	1629.3	1568.4	1507.6
40°	1916.0	1855.2	1777.1	1685.8	1672.7	1585.8	1546.8	1459.8	1403.3	1307.8	1299.1
42.5°	1672.7	1616.2	1546.8	1477.2	1425.1	1381.7	1281.7	1216.6	1155.8	1108.0	1094.8
45°	1451.1	1377.2	1316.5	1229.5	1177.4	1125.3	1060.1	1016.7	968.9	916.8	886.3
47.5°	1260.0	1199.2	1112.2	1034.1	982.0	955.8	881.9	834.2	795.1	760.4	738.6
50°	1064.6	990.7	942.8	855.9	847.2	786.4	725.6	686.5	664.7	634.4	603.9
52.5°	916.8	847.2	782.0	717.0	682.1	660.4	603.9	564.8	534.5	512.7	495.3
55°	773.3	712.5	660.4	595.3	573.5	543.2	478.0	469.3	438.8	408.4	386.7
57.5°	664.7	608.2	547.4	504.0	464.9	443.3	391.0	356.3	338.9	312.9	291.1
60°	564.8	504.0	456.2	404.1	386.7	356.3	317.1	286.8	265.0	243.2	221.6
62.5°	473.5	421.5	369.4	325.8	299.8	282.4	251.9	225.9	204.3	186.9	169.4
65°	391.0	343.2	299.8	256.3	243.2	221.6	199.8	178.2	160.7	139.1	121.7
67.5°	321.5	278.1	234.6	204.3	191.2	182.5	156.4	134.6	121.7	108.6	91.2
70°	251.9	221.6	186.9	160.7	147.8	134.6	117.3	104.3	86.8	78.1	65.2
72.5°	195.6	169.4	139.1	117.3	108.6	99.9	82.6	69.4	60.8	52.1	43.4
75°	139.1	117.3	99.9	78.1	73.9	69.4	56.5	47.8	39.2	30.5	26.0
77.5°	95.7	78.1	60.8	52.1	47.8	39.2	34.7	26.0	21.8	17.4	13.1
80°	52.1	39.2	30.5	26.0	21.8	17.4	17.4	13.1	8.7	8.7	4.4
82.5°	17.4	13.1	8.7	4.4	4.4	4.4	4.4	4.4	4.4	0.0	4.4
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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3619.2	3571.4	3584.5	3584.5	3575.8	3575.8	3567.1	3554.0	3558.4	3532.2	3475.9
5°	3580.0	3519.3	3510.6	3519.3	3484.6	3475.9	3458.5	3484.6	3406.3	3436.7	3402.0
7.5°	3467.2	3410.7	3397.6	3428.0	3384.6	3358.4	3354.2	3388.9	3319.4	3284.7	3245.6
10°	3341.1	3319.4	3280.3	3258.5	3245.6	3249.8	3215.1	3171.7	3158.6	3149.9	3115.2
12.5°	3228.2	3180.4	3145.6	3119.6	3110.9	3110.9	3054.4	3045.7	3006.6	2997.9	2945.8
15°	3093.4	3037.0	3015.3	2980.5	2950.1	2967.4	2902.2	2884.9	2871.9	2815.4	2824.1
17.5°	2976.1	2915.3	2863.3	2841.5	2815.4	2789.4	2728.4	2741.5	2711.1	2711.1	2632.9
20°	2824.1	2758.9	2719.8	2676.4	2676.4	2641.6	2598.2	2602.5	2563.3	2524.3	2454.7
22.5°	2663.4	2593.8	2546.0	2528.6	2485.2	2476.5	2424.4	2411.3	2359.2	2363.5	2302.7
25°	2493.9	2424.4	2359.2	2363.5	2324.5	2307.1	2276.7	2215.9	2194.1	2168.1	2150.7
27.5°	2294.0	2246.2	2189.7	2185.4	2111.6	2115.8	2076.8	2059.5	2007.2	2020.3	1981.2
30°	2111.6	2042.1	1989.9	1976.9	1946.5	1937.8	1877.0	1850.8	1859.6	1824.7	1803.1
32.5°	1924.7	1820.5	1798.7	1772.7	1755.3	1733.5	1690.1	1707.5	1668.3	1677.0	1642.3
35°	1677.0	1633.6	1577.1	1577.1	1559.7	1542.4	1512.1	1529.4	1490.3	1472.9	1438.2
37.5°	1468.5	1429.5	1373.0	1390.3	1359.9	1333.8	1307.8	1312.0	1277.3	1273.1	1238.2
40°	1242.6	1220.8	1181.8	1181.8	1160.0	1160.0	1146.9	1134.0	1112.2	1086.2	1047.0
42.5°	1029.7	1012.3	994.9	999.4	968.9	994.9	960.2	982.0	912.4	908.1	881.9
45°	873.2	834.2	838.5	821.1	803.8	812.5	782.0	790.7	751.7	743.0	717.0
47.5°	708.3	695.2	669.1	660.4	660.4	647.3	634.4	630.0	612.6	590.8	556.1
50°	582.1	534.5	525.6	512.7	504.0	504.0	486.7	460.6	464.9	443.3	408.4
52.5°	456.2	417.0	399.7	395.4	378.1	369.4	347.6	330.2	317.1	308.4	286.8
55°	351.8	317.1	295.5	295.5	269.5	269.5	239.0	225.9	208.5	191.2	178.2
57.5°	265.0	247.7	225.9	208.5	199.8	178.2	160.7	139.1	126.0	99.9	82.6
60°	199.8	182.5	160.7	147.8	139.1	117.3	95.7	78.1	47.8	39.2	34.7
62.5°	147.8	130.4	108.6	99.9	91.2	73.9	52.1	26.0	13.1	13.1	13.1
65°	108.6	86.8	69.4	60.8	52.1	39.2	17.4	8.7	4.4	4.4	4.4
67.5°	73.9	56.5	39.2	34.7	26.0	13.1	4.4	4.4	4.4	4.4	4.4
70°	47.8	34.7	17.4	13.1	8.7	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	30.5	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.4	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	4.4	4.4	4.4
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: LD4C75D010 EX4C759027 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3536.6	3506.2	3523.5	3484.6	3501.9	3532.2	3510.6	3519.3
5°	3414.9	3397.6	3376.0	3319.4	3362.8	3397.6	3380.2	3376.0
7.5°	3284.7	3223.8	3254.2	3236.9	3228.2	3262.9	3223.8	3267.2
10°	3149.9	3106.5	3102.2	3071.8	3071.8	3097.8	3102.2	3076.0
12.5°	2950.1	2928.4	2928.4	2924.0	2919.6	2945.8	2950.1	2937.1
15°	2806.7	2798.1	2776.3	2772.0	2746.0	2785.0	2789.4	2785.0
17.5°	2632.9	2637.2	2615.6	2615.6	2632.9	2645.9	2611.2	2645.9
20°	2515.7	2493.9	2485.2	2446.0	2467.8	2489.6	2489.6	2493.9
22.5°	2346.1	2311.4	2324.5	2302.7	2289.6	2320.1	2320.1	2333.2
25°	2155.0	2155.0	2163.7	2150.7	2159.4	2176.8	2163.7	2194.1
27.5°	1972.5	1989.9	1989.9	1972.5	1981.2	2033.3	2055.1	2020.3
30°	1803.1	1807.4	1820.5	1811.8	1837.9	1855.2	1850.8	1877.0
32.5°	1612.0	1633.6	1642.3	1629.3	1638.0	1677.0	1655.4	1651.0
35°	1464.2	1425.1	1420.8	1425.1	1442.4	1451.1	1442.4	1472.9
37.5°	1251.3	1238.2	1220.8	1225.2	1238.2	1255.7	1264.4	1286.0
40°	1047.0	1029.7	1029.7	1025.4	1012.3	1060.1	1060.1	1060.1
42.5°	869.0	864.5	842.9	842.9	860.3	873.2	864.5	895.0
45°	712.5	695.2	682.1	682.1	695.2	695.2	708.3	703.9
47.5°	560.5	543.2	547.4	534.5	547.4	564.8	543.2	547.4
50°	421.5	421.5	412.8	421.5	417.0	421.5	412.8	404.1
52.5°	286.8	325.8	330.2	312.9	273.7	239.0	217.2	234.6
55°	165.1	147.8	147.8	143.3	134.6	130.4	117.3	130.4
57.5°	82.6	73.9	73.9	73.9	69.4	65.2	56.5	56.5
60°	34.7	30.5	30.5	26.0	21.8	17.4	13.1	17.4
62.5°	13.1	8.7	8.7	8.7	8.7	8.7	8.7	8.7
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)