

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 EX4C759050 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 EX4C759050 4LBSQLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

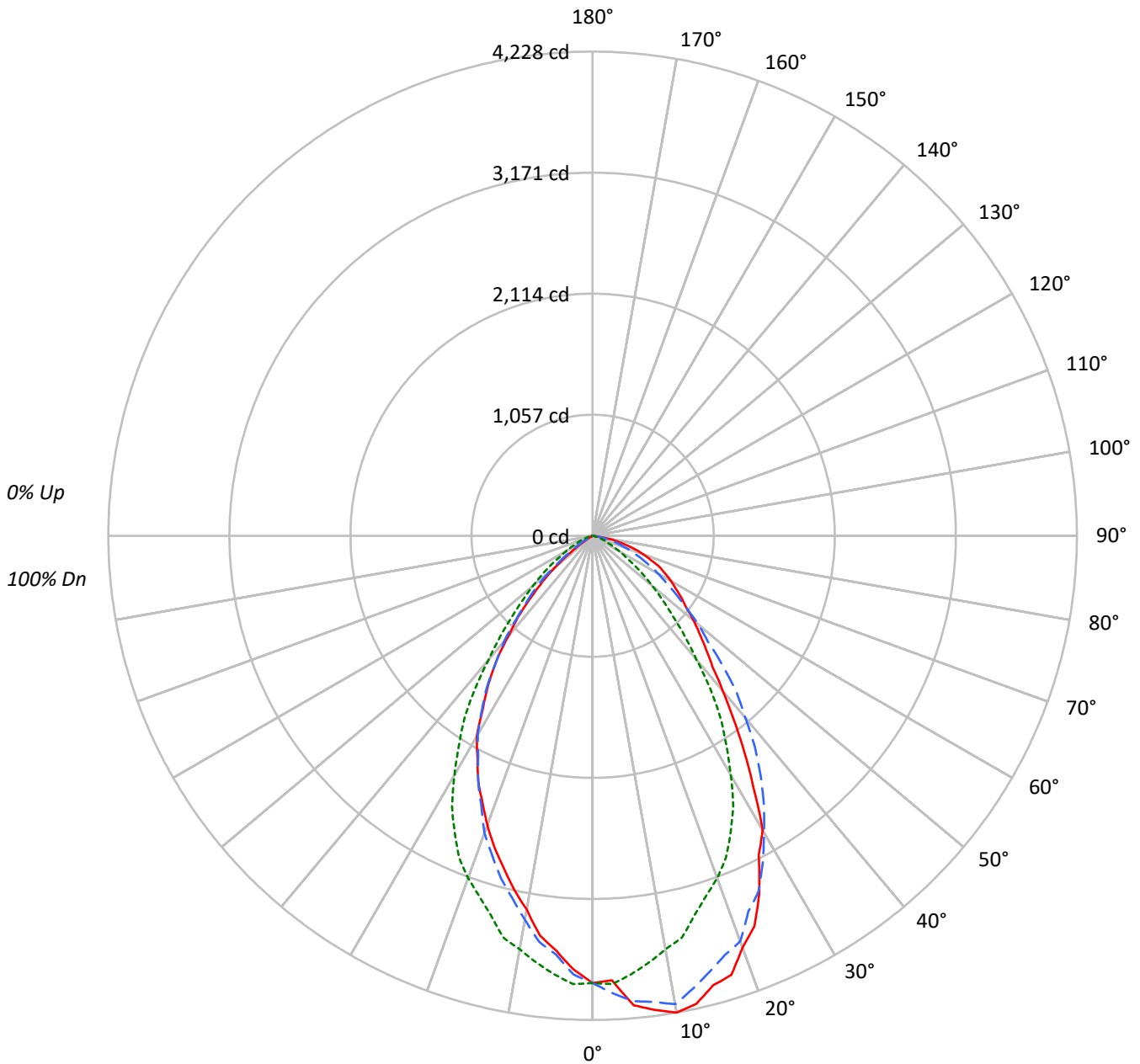
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5597.0 lumens
Efficiency: N/A
Efficacy: 68.7 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 (A_{in}): 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				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	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°	376751	376751	376751
5°	398607	372310	352358
10°	414229	359185	324766
15°	405944	342802	299778
20°	392777	326424	275946
25°	366374	303549	251723
30°	330727	268635	225350
35°	272427	229976	186958
40°	222327	177512	143894
45°	191025	134805	103502
50°	172882	102615	65373
55°	159089	74018	23635
60°	152703	50579	3609
65°	147490	34224	1096
70°	132058	23754	1354
75°	108262	12228	0
80°	67679	5223	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	6.5
10°-20°	985.6	17.6
20°-30°	1316.1	23.5
30°-40°	1249.4	22.3
40°-50°	863.6	15.4
50°-60°	477.2	8.5
60°-70°	237.0	4.2
70°-80°	93.4	1.7
80°-90°	8.9	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°	2667.6	47.7
0°-40°	3917.0	70.0
0°-60°	5257.8	93.9
0°-90°	5597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3905	3905	3905	3905	3905	
5°	4115	4078	3844	3670	3638	394
15°	4064	3942	3432	3095	3001	1150
25°	3441	3427	2851	2364	2364	1569
35°	2313	2556	1952	1606	1587	1449
45°	1400	1606	988	810	758	1092
55°	946	890	440	225	140	851
65°	646	468	150	5	5	627
75°	290	178	33	0	0	309
85°	0	5	0	0	0	27
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°	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6
2.5°	3885.9	3993.6	4002.9	3993.6	4007.7	4002.9	4026.4	4002.9	4031.2	3989.0	3998.3
5°	4115.4	4073.2	4162.1	4115.4	4115.4	4110.8	4096.6	4091.9	4110.8	4049.9	4077.9
7.5°	4176.2	4237.1	4316.8	4218.4	4223.0	4223.0	4195.0	4185.6	4185.6	4073.2	4106.0
10°	4227.8	4190.2	4232.4	4195.0	4227.8	4223.0	4241.7	4180.8	4223.0	4157.5	4152.8
12.5°	4185.6	4171.5	4227.8	4166.9	4148.2	4152.8	4129.5	4115.4	4129.5	4054.5	4049.9
15°	4063.8	4077.9	4162.1	4096.6	4087.3	4077.9	4049.9	4002.9	4040.5	3937.4	3942.2
17.5°	4021.8	3998.3	4012.4	3956.1	3970.3	3960.9	3956.1	3914.1	3904.6	3839.1	3839.1
20°	3825.2	3876.5	3876.5	3839.1	3839.1	3834.5	3773.6	3811.0	3768.9	3750.2	3768.9
22.5°	3689.3	3694.0	3694.0	3661.2	3666.0	3647.2	3614.4	3590.9	3614.4	3590.9	3553.5
25°	3441.3	3450.6	3506.7	3445.8	3436.5	3455.2	3427.1	3413.0	3408.4	3352.3	3427.1
27.5°	3141.5	3235.1	3230.5	3207.0	3235.1	3197.7	3183.7	3188.3	3202.4	3197.7	3216.4
30°	2968.4	2982.3	2996.5	2977.7	2982.3	2968.4	2968.4	2973.0	3010.4	2996.5	2991.7
32.5°	2617.1	2663.9	2701.5	2701.5	2706.1	2720.2	2715.4	2813.8	2837.2	2790.5	2781.1
35°	2312.8	2345.7	2378.3	2383.1	2444.0	2448.6	2453.3	2481.4	2546.9	2561.0	2556.2
37.5°	2022.6	2055.3	2064.6	2106.8	2139.7	2172.3	2209.9	2247.3	2303.5	2350.2	2326.9
40°	1765.1	1779.1	1802.5	1821.2	1886.7	1886.7	1905.4	1980.5	2041.4	2078.8	2074.0
42.5°	1549.8	1554.4	1573.1	1605.9	1666.8	1652.7	1666.8	1718.3	1807.1	1811.9	1863.4
45°	1399.9	1395.1	1409.3	1413.8	1451.5	1470.2	1479.5	1516.9	1591.8	1601.1	1605.9
47.5°	1264.2	1259.4	1282.9	1292.2	1306.2	1324.9	1324.9	1329.7	1357.7	1381.2	1362.5
50°	1151.7	1151.7	1151.7	1161.1	1184.6	1179.8	1184.6	1203.3	1217.2	1207.9	1203.3
52.5°	1029.9	1048.6	1062.8	1067.5	1072.1	1072.1	1076.9	1067.5	1062.8	1048.6	1020.6
55°	945.7	964.5	964.5	964.5	964.5	983.2	959.9	964.5	964.5	927.0	889.6
57.5°	861.6	880.3	894.2	875.5	894.2	875.5	866.1	861.6	852.0	814.6	758.5
60°	791.3	800.7	795.9	791.3	800.7	786.5	777.2	758.5	749.1	697.6	660.2
62.5°	711.7	716.3	721.0	711.7	702.3	697.6	678.9	650.8	632.1	589.9	557.1
65°	646.0	632.1	627.3	622.7	613.4	599.3	585.3	552.5	538.4	500.9	468.1
67.5°	547.7	543.1	552.5	538.4	515.1	515.1	500.9	472.9	440.0	416.7	383.9
70°	468.1	463.5	454.2	440.0	435.5	416.7	416.7	383.9	374.6	332.4	304.3
72.5°	383.9	383.9	369.8	355.8	341.7	332.4	327.8	304.3	290.4	266.9	243.4
75°	290.4	290.4	285.6	271.5	262.1	252.8	248.2	229.5	215.3	192.0	177.9
77.5°	206.0	206.0	187.3	177.9	182.5	173.2	163.8	159.2	154.4	140.5	121.8
80°	121.8	117.0	103.1	107.7	103.1	103.1	98.3	93.5	84.2	74.8	65.5
82.5°	32.8	37.4	37.4	37.4	42.2	32.8	32.8	32.8	37.4	37.4	23.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	4.8
87.5°	4.8	9.4	18.7	18.7	18.7	18.7	18.7	14.1	14.1	14.1	9.4
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°	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6
2.5°	3951.6	3946.8	3951.6	3918.7	3993.6	3937.4	3928.1	3918.7	3951.6	3918.7	3871.9
5°	4035.7	3989.0	3974.8	3960.9	4002.9	3937.4	3923.5	3928.1	3904.6	3843.9	3848.5
7.5°	4063.8	4021.8	3979.6	3890.7	3928.1	3914.1	3876.5	3848.5	3811.0	3759.5	3750.2
10°	4073.2	4026.4	3965.5	3937.4	3881.3	3862.6	3848.5	3801.7	3754.9	3666.0	3642.5
12.5°	4045.1	3989.0	3914.1	3890.7	3848.5	3787.6	3754.9	3708.0	3666.0	3595.7	3544.2
15°	3923.5	3876.5	3853.2	3773.6	3754.9	3717.3	3651.8	3586.4	3525.5	3431.7	3403.7
17.5°	3783.0	3764.3	3740.8	3679.9	3675.3	3637.9	3577.0	3520.7	3441.3	3296.0	3249.2
20°	3637.9	3637.9	3562.9	3539.6	3586.4	3511.3	3464.6	3413.0	3249.2	3179.0	3094.8
22.5°	3530.2	3478.7	3436.5	3399.1	3403.7	3356.9	3291.4	3188.3	3127.4	3043.2	2944.9
25°	3319.5	3338.2	3244.6	3230.5	3244.6	3136.8	3104.1	3019.7	2930.8	2851.2	2776.3
27.5°	3188.3	3136.8	3076.1	3024.5	3024.5	2982.3	2888.8	2870.1	2734.2	2659.3	2565.6
30°	2991.7	2954.3	2902.7	2827.9	2818.5	2785.7	2710.9	2663.9	2523.6	2411.1	2359.6
32.5°	2743.5	2729.6	2687.4	2603.2	2575.1	2537.5	2444.0	2364.4	2298.9	2172.3	2111.6
35°	2565.6	2514.2	2425.3	2355.0	2331.5	2266.0	2191.0	2134.9	2064.6	1952.4	1872.8
37.5°	2298.9	2247.3	2163.0	2078.8	2078.8	2013.3	1910.2	1854.1	1755.8	1690.1	1624.6
40°	2064.6	1999.2	1915.0	1816.7	1802.5	1708.8	1666.8	1573.1	1512.2	1409.3	1399.9
42.5°	1802.5	1741.6	1666.8	1591.8	1535.6	1488.9	1381.2	1310.9	1245.5	1193.9	1179.8
45°	1563.7	1484.1	1418.6	1324.9	1268.8	1212.6	1142.4	1095.6	1044.1	987.9	955.1
47.5°	1357.7	1292.2	1198.5	1114.3	1058.2	1029.9	950.3	899.0	856.8	819.4	795.9
50°	1147.1	1067.5	1016.0	922.3	912.9	847.4	781.9	739.8	716.3	683.6	650.8
52.5°	987.9	912.9	842.7	772.6	735.0	711.7	650.8	608.6	576.0	552.5	533.8
55°	833.3	767.8	711.7	641.4	618.0	585.3	515.1	505.7	472.9	440.0	416.7
57.5°	716.3	655.4	589.9	543.1	500.9	477.6	421.3	383.9	365.2	337.1	313.7
60°	608.6	543.1	491.6	435.5	416.7	383.9	341.7	309.1	285.6	262.1	238.8
62.5°	510.3	454.2	398.0	351.1	323.0	304.3	271.5	243.4	220.1	201.4	182.5
65°	421.3	369.8	323.0	276.2	262.1	238.8	215.3	192.0	173.2	149.9	131.1
67.5°	346.5	299.7	252.8	220.1	206.0	196.6	168.6	145.1	131.1	117.0	98.3
70°	271.5	238.8	201.4	173.2	159.2	145.1	126.4	112.4	93.5	84.2	70.3
72.5°	210.8	182.5	149.9	126.4	117.0	107.7	89.0	74.8	65.5	56.1	46.8
75°	149.9	126.4	107.7	84.2	79.6	74.8	60.9	51.5	42.2	32.8	28.1
77.5°	103.1	84.2	65.5	56.1	51.5	42.2	37.4	28.1	23.5	18.7	14.1
80°	56.1	42.2	32.8	28.1	23.5	18.7	18.7	14.1	9.4	9.4	4.8
82.5°	18.7	14.1	9.4	4.8	4.8	4.8	4.8	4.8	4.8	0.0	4.8
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°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	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°	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6
2.5°	3900.0	3848.5	3862.6	3862.6	3853.2	3853.2	3843.9	3829.8	3834.5	3806.3	3745.6
5°	3857.8	3792.3	3783.0	3792.3	3754.9	3745.6	3726.9	3754.9	3670.5	3703.4	3666.0
7.5°	3736.2	3675.3	3661.2	3694.0	3647.2	3619.0	3614.4	3651.8	3577.0	3539.6	3497.4
10°	3600.3	3577.0	3534.8	3511.3	3497.4	3502.0	3464.6	3417.8	3403.7	3394.3	3356.9
12.5°	3478.7	3427.1	3389.7	3361.7	3352.3	3352.3	3291.4	3282.0	3239.9	3230.5	3174.4
15°	3333.4	3272.7	3249.2	3211.8	3179.0	3197.7	3127.4	3108.7	3094.8	3033.9	3043.2
17.5°	3207.0	3141.5	3085.4	3061.9	3033.9	3005.8	2940.1	2954.3	2921.4	2921.4	2837.2
20°	3043.2	2973.0	2930.8	2884.0	2884.0	2846.6	2799.8	2804.4	2762.2	2720.2	2645.2
22.5°	2870.1	2795.0	2743.5	2724.8	2678.0	2668.7	2612.5	2598.4	2542.3	2546.9	2481.4
25°	2687.4	2612.5	2542.3	2546.9	2504.9	2486.2	2453.3	2387.8	2364.4	2336.3	2317.6
27.5°	2472.0	2420.5	2359.6	2355.0	2275.4	2280.0	2238.0	2219.3	2163.0	2177.1	2134.9
30°	2275.4	2200.6	2144.3	2130.3	2097.5	2088.1	2022.6	1994.4	2003.9	1966.3	1943.0
32.5°	2074.0	1961.7	1938.3	1910.2	1891.5	1868.0	1821.2	1839.9	1797.8	1807.1	1769.7
35°	1807.1	1760.3	1699.4	1699.4	1680.7	1662.0	1629.4	1648.1	1605.9	1587.2	1549.8
37.5°	1582.4	1540.4	1479.5	1498.2	1465.4	1437.3	1409.3	1413.8	1376.4	1371.8	1334.2
40°	1339.0	1315.5	1273.5	1273.5	1250.1	1250.1	1235.9	1222.0	1198.5	1170.4	1128.3
42.5°	1109.5	1090.8	1072.1	1076.9	1044.1	1072.1	1034.7	1058.2	983.2	978.6	950.3
45°	941.0	899.0	903.6	884.8	866.1	875.5	842.7	852.0	810.0	800.7	772.6
47.5°	763.2	749.1	721.0	711.7	711.7	697.6	683.6	678.9	660.2	636.7	599.3
50°	627.3	576.0	566.4	552.5	543.1	543.1	524.4	496.4	500.9	477.6	440.0
52.5°	491.6	449.4	430.7	426.1	407.4	398.0	374.6	355.8	341.7	332.4	309.1
55°	379.1	341.7	318.4	318.4	290.4	290.4	257.5	243.4	224.7	206.0	192.0
57.5°	285.6	266.9	243.4	224.7	215.3	192.0	173.2	149.9	135.7	107.7	89.0
60°	215.3	196.6	173.2	159.2	149.9	126.4	103.1	84.2	51.5	42.2	37.4
62.5°	159.2	140.5	117.0	107.7	98.3	79.6	56.1	28.1	14.1	14.1	14.1
65°	117.0	93.5	74.8	65.5	56.1	42.2	18.7	9.4	4.8	4.8	4.8
67.5°	79.6	60.9	42.2	37.4	28.1	14.1	4.8	4.8	4.8	4.8	4.8
70°	51.5	37.4	18.7	14.1	9.4	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	32.8	18.7	9.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.7	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.8	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	4.8	4.8	4.8
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: LD4C75D010 EX4C759050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6	3904.6
2.5°	3811.0	3778.2	3796.9	3754.9	3773.6	3806.3	3783.0	3792.3
5°	3679.9	3661.2	3637.9	3577.0	3623.8	3661.2	3642.5	3637.9
7.5°	3539.6	3473.9	3506.7	3488.0	3478.7	3516.1	3473.9	3520.7
10°	3394.3	3347.5	3342.9	3310.1	3310.1	3338.2	3342.9	3314.7
12.5°	3179.0	3155.7	3155.7	3150.9	3146.1	3174.4	3179.0	3165.0
15°	3024.5	3015.2	2991.7	2987.1	2959.0	3001.0	3005.8	3001.0
17.5°	2837.2	2841.8	2818.5	2818.5	2837.2	2851.2	2813.8	2851.2
20°	2710.9	2687.4	2678.0	2635.8	2659.3	2682.8	2682.8	2687.4
22.5°	2528.2	2490.7	2504.9	2481.4	2467.3	2500.1	2500.1	2514.2
25°	2322.2	2322.2	2331.5	2317.6	2326.9	2345.7	2331.5	2364.4
27.5°	2125.5	2144.3	2144.3	2125.5	2134.9	2191.0	2214.5	2177.1
30°	1943.0	1947.6	1961.7	1952.4	1980.5	1999.2	1994.4	2022.6
32.5°	1737.0	1760.3	1769.7	1755.8	1765.1	1807.1	1783.8	1779.1
35°	1577.8	1535.6	1531.1	1535.6	1554.4	1563.7	1554.4	1587.2
37.5°	1348.4	1334.2	1315.5	1320.3	1334.2	1353.1	1362.5	1385.8
40°	1128.3	1109.5	1109.5	1105.0	1090.8	1142.4	1142.4	1142.4
42.5°	936.4	931.6	908.3	908.3	927.0	941.0	931.6	964.5
45°	767.8	749.1	735.0	735.0	749.1	749.1	763.2	758.5
47.5°	604.0	585.3	589.9	576.0	589.9	608.6	585.3	589.9
50°	454.2	454.2	444.8	454.2	449.4	454.2	444.8	435.5
52.5°	309.1	351.1	355.8	337.1	294.9	257.5	234.1	252.8
55°	177.9	159.2	159.2	154.4	145.1	140.5	126.4	140.5
57.5°	89.0	79.6	79.6	79.6	74.8	70.3	60.9	60.9
60°	37.4	32.8	32.8	28.1	23.5	18.7	14.1	18.7
62.5°	14.1	9.4	9.4	9.4	9.4	9.4	9.4	9.4
65°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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)