

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: **LD4C65D010 EX4C659050 4LBSQLWWLI**

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: LD4C65D010 EX4C659050 4LBSQLWWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

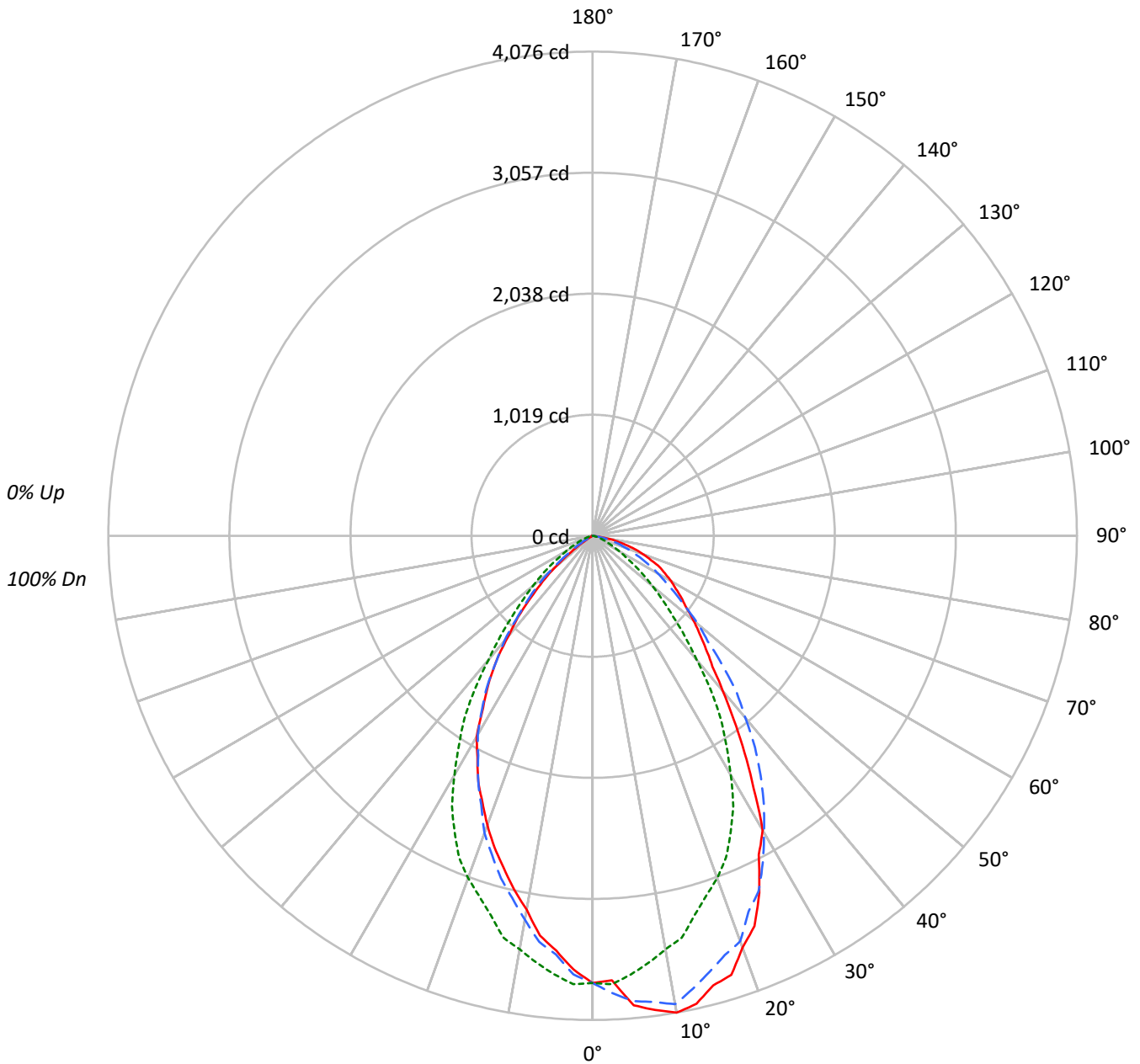
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5396.0 lumens  
Efficiency: N/A  
Efficacy: 74.5 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): 72.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	363223	363223	363223
5°	384292	358934	339699
10°	399356	346281	313106
15°	391369	330495	289019
20°	378668	314698	266037
25°	353215	292647	242684
30°	318850	258986	217261
35°	262651	221718	180244
40°	214342	171138	138729
45°	184161	129974	99777
50°	166682	98938	63016
55°	153386	71360	22794
60°	147223	48765	3474
65°	142193	32991	1050
70°	127318	22908	1298
75°	104348	11818	0
80°	65234	5001	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	6.5
10°-20°	950.2	17.6
20°-30°	1268.9	23.5
30°-40°	1204.5	22.3
40°-50°	832.6	15.4
50°-60°	460.0	8.5
60°-70°	228.5	4.2
70°-80°	90.0	1.7
80°-90°	8.6	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°	2571.8	47.7
0°-40°	3776.3	70.0
0°-60°	5069.0	93.9
0°-90°	5396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5396.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3764	3764	3764	3764	3764	
5°	3968	3932	3706	3539	3507	380
15°	3918	3801	3308	2984	2893	1108
25°	3318	3304	2749	2280	2280	1512
35°	2230	2464	1882	1548	1530	1397
45°	1350	1548	952	781	731	1053
55°	912	858	424	217	136	821
65°	623	451	144	5	5	605
75°	280	172	32	0	0	298
85°	0	5	0	0	0	26
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°	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4
2.5°	3746.3	3850.1	3859.2	3850.1	3863.8	3859.2	3881.8	3859.2	3886.4	3845.7	3854.7
5°	3967.6	3926.9	4012.7	3967.6	3967.6	3963.1	3949.5	3944.9	3963.1	3904.4	3931.5
7.5°	4026.3	4085.0	4161.7	4066.9	4071.4	4071.4	4044.3	4035.3	4035.3	3926.9	3958.5
10°	4076.0	4039.7	4080.4	4044.3	4076.0	4071.4	4089.4	4030.7	4071.4	4008.2	4003.6
12.5°	4035.3	4021.7	4076.0	4017.3	3999.2	4003.6	3981.2	3967.6	3981.2	3908.9	3904.4
15°	3917.9	3931.5	4012.7	3949.5	3940.5	3931.5	3904.4	3859.2	3895.4	3796.0	3800.6
17.5°	3877.4	3854.7	3868.4	3814.1	3827.7	3818.7	3814.1	3773.6	3764.4	3701.2	3701.2
20°	3687.8	3737.3	3737.3	3701.2	3701.2	3696.8	3638.1	3674.2	3633.5	3615.5	3633.5
22.5°	3556.8	3561.4	3561.4	3529.7	3534.3	3516.3	3484.6	3462.0	3484.6	3462.0	3425.9
25°	3317.7	3326.7	3380.8	3322.1	3313.1	3331.1	3304.1	3290.4	3286.0	3231.9	3304.1
27.5°	3028.7	3118.9	3114.5	3091.9	3118.9	3082.8	3069.4	3073.8	3087.4	3082.8	3100.9
30°	2861.8	2875.2	2888.8	2870.8	2875.2	2861.8	2861.8	2866.2	2902.3	2888.8	2884.2
32.5°	2523.1	2568.2	2604.5	2604.5	2608.9	2622.5	2617.9	2712.7	2735.3	2690.3	2681.2
35°	2229.8	2261.4	2292.9	2297.5	2356.2	2360.6	2365.2	2392.3	2455.4	2469.0	2464.4
37.5°	1950.0	1981.5	1990.5	2031.2	2062.8	2094.3	2130.6	2166.6	2220.7	2265.8	2243.4
40°	1701.7	1715.2	1737.8	1755.8	1819.0	1819.0	1837.0	1909.3	1968.0	2004.1	1999.5
42.5°	1494.1	1498.5	1516.6	1548.2	1606.9	1593.3	1606.9	1656.6	1742.2	1746.8	1796.5
45°	1349.6	1345.0	1358.7	1363.1	1399.3	1417.4	1426.4	1462.5	1534.6	1543.6	1548.2
47.5°	1218.8	1214.2	1236.8	1245.8	1259.3	1277.3	1277.3	1281.9	1309.0	1331.6	1313.6
50°	1110.4	1110.4	1110.4	1119.4	1142.0	1137.4	1142.0	1160.1	1173.5	1164.5	1160.1
52.5°	993.0	1011.0	1024.6	1029.2	1033.6	1033.6	1038.2	1029.2	1024.6	1011.0	983.9
55°	911.8	929.8	929.8	929.8	929.8	947.9	925.4	929.8	929.8	893.7	857.7
57.5°	830.6	848.7	862.1	844.1	862.1	844.1	835.0	830.6	821.4	785.3	731.2
60°	762.9	771.9	767.3	762.9	771.9	758.3	749.3	731.2	722.2	672.5	636.4
62.5°	686.1	690.6	695.2	686.1	677.1	672.5	654.5	627.4	609.4	568.7	537.1
65°	622.8	609.4	604.8	600.4	591.3	577.7	564.3	532.6	519.0	482.9	451.3
67.5°	528.0	523.6	532.6	519.0	496.6	496.6	482.9	455.9	424.2	401.8	370.1
70°	451.3	446.9	437.9	424.2	419.8	401.8	401.8	370.1	361.1	320.4	293.4
72.5°	370.1	370.1	356.5	343.1	329.5	320.4	316.0	293.4	279.9	257.3	234.7
75°	279.9	279.9	275.3	261.7	252.7	243.7	239.3	221.2	207.6	185.2	171.5
77.5°	198.6	198.6	180.6	171.5	176.0	166.9	157.9	153.5	148.9	135.5	117.4
80°	117.4	112.8	99.4	103.8	99.4	99.4	94.8	90.2	81.2	72.2	63.1
82.5°	31.7	36.1	36.1	36.1	40.7	31.7	31.7	31.7	36.1	36.1	22.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.6
87.5°	4.6	9.0	18.0	18.0	18.0	18.0	18.0	13.6	13.6	13.6	9.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4
2.5°	3809.6	3805.0	3809.6	3778.0	3850.1	3796.0	3787.0	3778.0	3809.6	3778.0	3732.9
5°	3890.8	3845.7	3832.1	3818.7	3859.2	3796.0	3782.6	3787.0	3764.4	3705.8	3710.3
7.5°	3917.9	3877.4	3836.7	3750.9	3787.0	3773.6	3737.3	3710.3	3674.2	3624.5	3615.5
10°	3926.9	3881.8	3823.1	3796.0	3741.9	3723.9	3710.3	3665.2	3620.1	3534.3	3511.7
12.5°	3899.8	3845.7	3773.6	3750.9	3710.3	3651.5	3620.1	3574.8	3534.3	3466.6	3416.9
15°	3782.6	3737.3	3714.9	3638.1	3620.1	3583.8	3520.7	3457.6	3398.8	3308.5	3281.4
17.5°	3647.1	3629.1	3606.5	3547.7	3543.3	3507.2	3448.5	3394.2	3317.7	3177.6	3132.5
20°	3507.2	3507.2	3434.9	3412.5	3457.6	3385.2	3340.1	3290.4	3132.5	3064.8	2983.6
22.5°	3403.4	3353.8	3313.1	3277.0	3281.4	3236.3	3173.2	3073.8	3015.1	2933.9	2839.2
25°	3200.3	3218.3	3128.1	3114.5	3128.1	3024.1	2992.6	2911.3	2825.5	2748.8	2676.6
27.5°	3073.8	3024.1	2965.6	2915.9	2915.9	2875.2	2785.0	2767.0	2636.0	2563.8	2473.4
30°	2884.2	2848.2	2798.5	2726.3	2717.3	2685.7	2613.5	2568.2	2433.0	2324.5	2274.9
32.5°	2645.0	2631.5	2590.9	2509.7	2482.6	2446.4	2356.2	2279.5	2216.3	2094.3	2035.8
35°	2473.4	2423.9	2338.2	2270.4	2247.8	2184.7	2112.3	2058.2	1990.5	1882.3	1805.5
37.5°	2216.3	2166.6	2085.3	2004.1	2004.1	1941.0	1841.6	1787.5	1692.7	1629.4	1566.3
40°	1990.5	1927.4	1846.2	1751.4	1737.8	1647.4	1606.9	1516.6	1457.9	1358.7	1349.6
42.5°	1737.8	1679.1	1606.9	1534.6	1480.5	1435.4	1331.6	1263.9	1200.7	1151.0	1137.4
45°	1507.6	1430.8	1367.7	1277.3	1223.2	1169.1	1101.4	1056.3	1006.6	952.5	920.8
47.5°	1309.0	1245.8	1155.5	1074.3	1020.2	993.0	916.2	866.7	826.0	789.9	767.3
50°	1106.0	1029.2	979.5	889.1	880.1	817.0	753.9	713.2	690.6	659.1	627.4
52.5°	952.5	880.1	812.4	744.8	708.6	686.1	627.4	586.8	555.3	532.6	514.6
55°	803.4	740.2	686.1	618.4	595.8	564.3	496.6	487.5	455.9	424.2	401.8
57.5°	690.6	631.8	568.7	523.6	482.9	460.5	406.2	370.1	352.1	325.0	302.4
60°	586.8	523.6	473.9	419.8	401.8	370.1	329.5	298.0	275.3	252.7	230.2
62.5°	492.0	437.9	383.7	338.5	311.4	293.4	261.7	234.7	212.2	194.2	176.0
65°	406.2	356.5	311.4	266.3	252.7	230.2	207.6	185.2	166.9	144.5	126.4
67.5°	334.0	289.0	243.7	212.2	198.6	189.6	162.5	139.9	126.4	112.8	94.8
70°	261.7	230.2	194.2	166.9	153.5	139.9	121.8	108.4	90.2	81.2	67.7
72.5°	203.2	176.0	144.5	121.8	112.8	103.8	85.8	72.2	63.1	54.1	45.1
75°	144.5	121.8	103.8	81.2	76.7	72.2	58.7	49.7	40.7	31.7	27.1
77.5°	99.4	81.2	63.1	54.1	49.7	40.7	36.1	27.1	22.6	18.0	13.6
80°	54.1	40.7	31.7	27.1	22.6	18.0	18.0	13.6	9.0	9.0	4.6
82.5°	18.0	13.6	9.0	4.6	4.6	4.6	4.6	4.6	4.6	0.0	4.6
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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	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°	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4
2.5°	3760.0	3710.3	3723.9	3723.9	3714.9	3714.9	3705.8	3692.2	3696.8	3669.6	3611.1
5°	3719.3	3656.1	3647.1	3656.1	3620.1	3611.1	3593.0	3620.1	3538.7	3570.4	3534.3
7.5°	3602.0	3543.3	3529.7	3561.4	3516.3	3489.0	3484.6	3520.7	3448.5	3412.5	3371.8
10°	3471.0	3448.5	3407.9	3385.2	3371.8	3376.2	3340.1	3295.0	3281.4	3272.4	3236.3
12.5°	3353.8	3304.1	3268.0	3240.9	3231.9	3231.9	3173.2	3164.2	3123.5	3114.5	3060.4
15°	3213.7	3155.2	3132.5	3096.5	3064.8	3082.8	3015.1	2997.1	2983.6	2924.9	2933.9
17.5°	3091.9	3028.7	2974.6	2952.0	2924.9	2897.9	2834.6	2848.2	2816.5	2816.5	2735.3
20°	2933.9	2866.2	2825.5	2780.4	2780.4	2744.4	2699.3	2703.7	2663.0	2622.5	2550.2
22.5°	2767.0	2694.7	2645.0	2626.9	2581.9	2572.8	2518.7	2505.1	2451.0	2455.4	2392.3
25°	2590.9	2518.7	2451.0	2455.4	2414.9	2396.9	2365.2	2302.1	2279.5	2252.4	2234.4
27.5°	2383.3	2333.6	2274.9	2270.4	2193.7	2198.1	2157.6	2139.6	2085.3	2098.9	2058.2
30°	2193.7	2121.5	2067.2	2053.8	2022.2	2013.1	1950.0	1922.8	1932.0	1895.7	1873.3
32.5°	1999.5	1891.3	1868.7	1841.6	1823.6	1800.9	1755.8	1773.9	1733.2	1742.2	1706.1
35°	1742.2	1697.1	1638.4	1638.4	1620.4	1602.3	1570.9	1588.9	1548.2	1530.2	1494.1
37.5°	1525.6	1485.1	1426.4	1444.4	1412.8	1385.7	1358.7	1363.1	1327.0	1322.6	1286.3
40°	1290.9	1268.3	1227.8	1227.8	1205.2	1205.2	1191.5	1178.1	1155.5	1128.4	1087.7
42.5°	1069.7	1051.7	1033.6	1038.2	1006.6	1033.6	997.5	1020.2	947.9	943.4	916.2
45°	907.2	866.7	871.1	853.1	835.0	844.1	812.4	821.4	780.9	771.9	744.8
47.5°	735.8	722.2	695.2	686.1	686.1	672.5	659.1	654.5	636.4	613.8	577.7
50°	604.8	555.3	546.1	532.6	523.6	523.6	505.6	478.5	482.9	460.5	424.2
52.5°	473.9	433.3	415.2	410.8	392.8	383.7	361.1	343.1	329.5	320.4	298.0
55°	365.5	329.5	307.0	307.0	279.9	279.9	248.3	234.7	216.6	198.6	185.2
57.5°	275.3	257.3	234.7	216.6	207.6	185.2	166.9	144.5	130.9	103.8	85.8
60°	207.6	189.6	166.9	153.5	144.5	121.8	99.4	81.2	49.7	40.7	36.1
62.5°	153.5	135.5	112.8	103.8	94.8	76.7	54.1	27.1	13.6	13.6	13.6
65°	112.8	90.2	72.2	63.1	54.1	40.7	18.0	9.0	4.6	4.6	4.6
67.5°	76.7	58.7	40.7	36.1	27.1	13.6	4.6	4.6	4.6	4.6	4.6
70°	49.7	36.1	18.0	13.6	9.0	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	31.7	18.0	9.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.6	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	4.6	4.6	4.6
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: LD4C65D010 EX4C659050 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4	3764.4
2.5°	3674.2	3642.5	3660.6	3620.1	3638.1	3669.6	3647.1	3656.1
5°	3547.7	3529.7	3507.2	3448.5	3493.6	3529.7	3511.7	3507.2
7.5°	3412.5	3349.2	3380.8	3362.8	3353.8	3389.8	3349.2	3394.2
10°	3272.4	3227.3	3222.9	3191.2	3191.2	3218.3	3222.9	3195.7
12.5°	3064.8	3042.3	3042.3	3037.7	3033.1	3060.4	3064.8	3051.4
15°	2915.9	2906.9	2884.2	2879.8	2852.8	2893.3	2897.9	2893.3
17.5°	2735.3	2739.8	2717.3	2717.3	2735.3	2748.8	2712.7	2748.8
20°	2613.5	2590.9	2581.9	2541.2	2563.8	2586.4	2586.4	2590.9
22.5°	2437.4	2401.3	2414.9	2392.3	2378.7	2410.3	2410.3	2423.9
25°	2238.8	2238.8	2247.8	2234.4	2243.4	2261.4	2247.8	2279.5
27.5°	2049.2	2067.2	2067.2	2049.2	2058.2	2112.3	2135.0	2098.9
30°	1873.3	1877.7	1891.3	1882.3	1909.3	1927.4	1922.8	1950.0
32.5°	1674.7	1697.1	1706.1	1692.7	1701.7	1742.2	1719.8	1715.2
35°	1521.2	1480.5	1476.1	1480.5	1498.5	1507.6	1498.5	1530.2
37.5°	1299.9	1286.3	1268.3	1272.9	1286.3	1304.5	1313.6	1336.0
40°	1087.7	1069.7	1069.7	1065.3	1051.7	1101.4	1101.4	1101.4
42.5°	902.8	898.2	875.7	875.7	893.7	907.2	898.2	929.8
45°	740.2	722.2	708.6	708.6	722.2	722.2	735.8	731.2
47.5°	582.3	564.3	568.7	555.3	568.7	586.8	564.3	568.7
50°	437.9	437.9	428.8	437.9	433.3	437.9	428.8	419.8
52.5°	298.0	338.5	343.1	325.0	284.4	248.3	225.6	243.7
55°	171.5	153.5	153.5	148.9	139.9	135.5	121.8	135.5
57.5°	85.8	76.7	76.7	76.7	72.2	67.7	58.7	58.7
60°	36.1	31.7	31.7	27.1	22.6	18.0	13.6	18.0
62.5°	13.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)