

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 EX4C1009027 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 EX4C1009027 4LBSQLWWH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

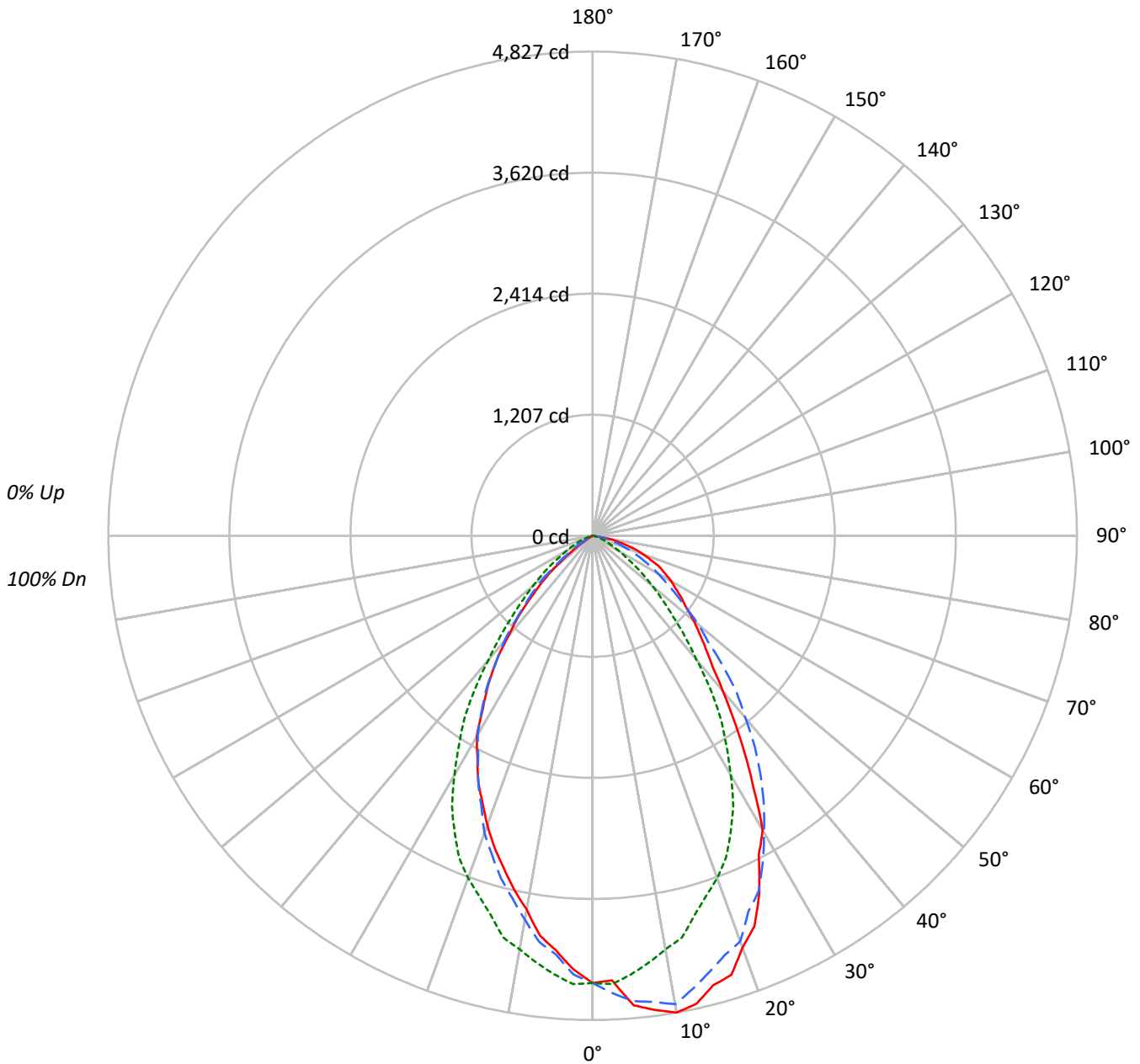
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6390.0 lumens  
Efficiency: N/A  
Efficacy: 55.9 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 (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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C100D010 EX4C1009027 4LBSQLWWH

### 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°	430128	430128	430128
5°	455075	425059	402278
10°	472917	410075	370776
15°	463462	391369	342252
20°	448420	372672	315037
25°	418275	346550	287388
30°	377588	306705	257281
35°	311028	262557	213449
40°	253829	202653	164274
45°	218097	153909	118157
50°	197380	117161	74635
55°	181631	84515	26983
60°	174336	57758	4130
65°	168403	39064	1233
70°	150762	27111	1523
75°	123585	13980	0
80°	77292	5946	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.7	6.5
10°-20°	1125.3	17.6
20°-30°	1502.6	23.5
30°-40°	1426.4	22.3
40°-50°	986.0	15.4
50°-60°	544.8	8.5
60°-70°	270.5	4.2
70°-80°	106.6	1.7
80°-90°	10.1	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°	3045.5	47.7
0°-40°	4472.0	70.0
0°-60°	6002.7	93.9
0°-90°	6390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4458	4458	4458	4458	4458	
5°	4698	4656	4388	4191	4153	450
15°	4640	4501	3918	3533	3426	1312
25°	3929	3913	3255	2699	2699	1791
35°	2640	2918	2229	1833	1812	1654
45°	1598	1833	1128	925	866	1247
55°	1080	1016	502	256	160	972
65°	738	534	171	5	5	716
75°	332	203	38	0	0	353
85°	0	5	0	0	0	31
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°	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8
2.5°	4436.4	4559.4	4570.1	4559.4	4575.5	4570.1	4596.9	4570.1	4602.3	4554.1	4564.8
5°	4698.4	4650.3	4751.8	4698.4	4698.4	4693.2	4677.1	4671.6	4693.2	4623.7	4655.7
7.5°	4768.0	4837.5	4928.4	4816.1	4821.4	4821.4	4789.3	4778.6	4778.6	4650.3	4687.7
10°	4826.8	4783.9	4832.0	4789.3	4826.8	4821.4	4842.7	4773.2	4821.4	4746.6	4741.1
12.5°	4778.6	4762.5	4826.8	4757.3	4735.9	4741.1	4714.6	4698.4	4714.6	4628.9	4623.7
15°	4639.6	4655.7	4751.8	4677.1	4666.4	4655.7	4623.7	4570.1	4613.0	4495.3	4500.7
17.5°	4591.6	4564.8	4580.9	4516.7	4532.8	4522.1	4516.7	4468.7	4457.8	4383.0	4383.0
20°	4367.1	4425.8	4425.8	4383.0	4383.0	4377.8	4308.3	4351.0	4302.8	4281.5	4302.8
22.5°	4212.0	4217.4	4217.4	4179.9	4185.4	4164.0	4126.5	4099.7	4126.5	4099.7	4057.0
25°	3928.8	3939.5	4003.6	3934.1	3923.4	3944.7	3912.7	3896.6	3891.3	3827.3	3912.7
27.5°	3586.6	3693.4	3688.2	3661.4	3693.4	3650.7	3634.8	3640.0	3656.2	3650.7	3672.1
30°	3389.0	3404.9	3421.0	3399.6	3404.9	3389.0	3389.0	3394.2	3436.9	3421.0	3415.6
32.5°	2987.9	3041.3	3084.3	3084.3	3089.5	3105.6	3100.2	3212.4	3239.2	3185.8	3175.1
35°	2640.5	2678.0	2715.3	2720.7	2790.2	2795.5	2800.9	2833.0	2907.7	2923.8	2918.4
37.5°	2309.2	2346.5	2357.2	2405.3	2442.8	2480.1	2523.0	2565.7	2629.8	2683.2	2656.6
40°	2015.2	2031.1	2057.9	2079.3	2154.0	2154.0	2175.4	2261.1	2330.6	2373.3	2367.9
42.5°	1769.3	1774.6	1795.9	1833.4	1903.0	1886.8	1903.0	1961.8	2063.2	2068.6	2127.4
45°	1598.3	1592.8	1608.9	1614.2	1657.1	1678.5	1689.1	1731.9	1817.3	1828.0	1833.4
47.5°	1443.3	1437.8	1464.6	1475.3	1491.2	1512.6	1512.6	1518.0	1550.1	1576.9	1555.5
50°	1314.9	1314.9	1314.9	1325.6	1352.4	1347.0	1352.4	1373.8	1389.7	1379.0	1373.8
52.5°	1175.9	1197.2	1213.3	1218.8	1224.0	1224.0	1229.5	1218.8	1213.3	1197.2	1165.2
55°	1079.7	1101.1	1101.1	1101.1	1101.1	1122.5	1095.9	1101.1	1101.1	1058.4	1015.7
57.5°	983.6	1005.0	1020.9	999.5	1020.9	999.5	988.9	983.6	972.7	930.0	865.9
60°	903.4	914.1	908.7	903.4	914.1	898.0	887.3	865.9	855.2	796.4	753.7
62.5°	812.5	817.8	823.2	812.5	801.8	796.4	775.0	743.0	721.6	673.5	636.0
65°	737.6	721.6	716.2	711.0	700.3	684.2	668.2	630.8	614.6	571.9	534.4
67.5°	625.3	620.1	630.8	614.6	588.0	588.0	571.9	539.9	502.4	475.8	438.3
70°	534.4	529.2	518.5	502.4	497.2	475.8	475.8	438.3	427.6	379.5	347.4
72.5°	438.3	438.3	422.2	406.3	390.1	379.5	374.2	347.4	331.5	304.7	277.9
75°	331.5	331.5	326.1	309.9	299.3	288.6	283.3	262.0	245.9	219.3	203.1
77.5°	235.2	235.2	213.8	203.1	208.4	197.7	187.0	181.8	176.3	160.4	139.1
80°	139.1	133.6	117.7	122.9	117.7	117.7	112.2	106.8	96.1	85.4	74.8
82.5°	37.5	42.7	42.7	42.7	48.2	37.5	37.5	37.5	42.7	42.7	26.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4	5.4
87.5°	5.4	10.7	21.4	21.4	21.4	21.4	21.4	16.1	16.1	16.1	10.7
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°	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8
2.5°	4511.4	4506.0	4511.4	4473.9	4559.4	4495.3	4484.6	4473.9	4511.4	4473.9	4420.5
5°	4607.5	4554.1	4538.0	4522.1	4570.1	4495.3	4479.4	4484.6	4457.8	4388.5	4393.7
7.5°	4639.6	4591.6	4543.5	4441.9	4484.6	4468.7	4425.8	4393.7	4351.0	4292.2	4281.5
10°	4650.3	4596.9	4527.3	4495.3	4431.2	4409.9	4393.7	4340.3	4286.9	4185.4	4158.6
12.5°	4618.2	4554.1	4468.7	4441.9	4393.7	4324.2	4286.9	4233.3	4185.4	4105.2	4046.3
15°	4479.4	4425.8	4399.2	4308.3	4286.9	4244.0	4169.2	4094.5	4025.0	3917.9	3885.9
17.5°	4319.0	4297.6	4270.8	4201.3	4196.0	4153.3	4083.8	4019.5	3928.8	3763.0	3709.6
20°	4153.3	4153.3	4067.7	4041.1	4094.5	4008.8	3955.4	3896.6	3709.6	3629.4	3533.2
22.5°	4030.4	3971.5	3923.4	3880.7	3885.9	3832.5	3757.7	3640.0	3570.5	3474.4	3362.2
25°	3789.8	3811.1	3704.3	3688.2	3704.3	3581.2	3543.9	3447.6	3346.0	3255.1	3169.7
27.5°	3640.0	3581.2	3511.9	3453.0	3453.0	3404.9	3298.1	3276.7	3121.5	3036.1	2929.1
30°	3415.6	3372.8	3314.0	3228.5	3217.9	3180.4	3094.9	3041.3	2881.1	2752.8	2693.9
32.5°	3132.2	3116.3	3068.1	2972.0	2940.0	2897.0	2790.2	2699.4	2624.6	2480.1	2410.8
35°	2929.1	2870.4	2768.9	2688.7	2661.9	2587.1	2501.5	2437.4	2357.2	2229.0	2138.1
37.5°	2624.6	2565.7	2469.4	2373.3	2373.3	2298.5	2180.8	2116.8	2004.5	1929.5	1854.8
40°	2357.2	2282.4	2186.3	2074.0	2057.9	1950.9	1903.0	1795.9	1726.4	1608.9	1598.3
42.5°	2057.9	1988.4	1903.0	1817.3	1753.2	1699.8	1576.9	1496.7	1421.9	1363.1	1347.0
45°	1785.3	1694.4	1619.6	1512.6	1448.5	1384.4	1304.2	1250.8	1192.0	1127.9	1090.4
47.5°	1550.1	1475.3	1368.3	1272.2	1208.1	1175.9	1085.0	1026.3	978.2	935.5	908.7
50°	1309.7	1218.8	1159.9	1052.9	1042.3	967.5	892.7	844.6	817.8	780.5	743.0
52.5°	1127.9	1042.3	962.1	882.1	839.1	812.5	743.0	694.8	657.6	630.8	609.4
55°	951.4	876.6	812.5	732.3	705.5	668.2	588.0	577.4	539.9	502.4	475.8
57.5°	817.8	748.2	673.5	620.1	571.9	545.3	481.0	438.3	416.9	384.9	358.1
60°	694.8	620.1	561.2	497.2	475.8	438.3	390.1	352.9	326.1	299.3	272.7
62.5°	582.6	518.5	454.4	400.8	368.8	347.4	309.9	277.9	251.3	229.9	208.4
65°	481.0	422.2	368.8	315.4	299.3	272.7	245.9	219.3	197.7	171.1	149.7
67.5°	395.6	342.2	288.6	251.3	235.2	224.5	192.5	165.6	149.7	133.6	112.2
70°	309.9	272.7	229.9	197.7	181.8	165.6	144.3	128.4	106.8	96.1	80.2
72.5°	240.6	208.4	171.1	144.3	133.6	122.9	101.6	85.4	74.8	64.1	53.4
75°	171.1	144.3	122.9	96.1	90.9	85.4	69.5	58.8	48.2	37.5	32.0
77.5°	117.7	96.1	74.8	64.1	58.8	48.2	42.7	32.0	26.8	21.4	16.1
80°	64.1	48.2	37.5	32.0	26.8	21.4	21.4	16.1	10.7	10.7	5.4
82.5°	21.4	16.1	10.7	5.4	5.4	5.4	5.4	5.4	5.4	0.0	5.4
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°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	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°	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8
2.5°	4452.6	4393.7	4409.9	4409.9	4399.2	4399.2	4388.5	4372.4	4377.8	4345.6	4276.2
5°	4404.4	4329.6	4319.0	4329.6	4286.9	4276.2	4254.9	4286.9	4190.6	4228.1	4185.4
7.5°	4265.6	4196.0	4179.9	4217.4	4164.0	4131.8	4126.5	4169.2	4083.8	4041.1	3992.9
10°	4110.4	4083.8	4035.6	4008.8	3992.9	3998.1	3955.4	3902.0	3885.9	3875.2	3832.5
12.5°	3971.5	3912.7	3870.0	3837.9	3827.3	3827.3	3757.7	3747.1	3698.9	3688.2	3624.1
15°	3805.7	3736.4	3709.6	3666.9	3629.4	3650.7	3570.5	3549.2	3533.2	3463.7	3474.4
17.5°	3661.4	3586.6	3522.6	3495.8	3463.7	3431.7	3356.7	3372.8	3335.3	3335.3	3239.2
20°	3474.4	3394.2	3346.0	3292.6	3292.6	3249.9	3196.5	3201.7	3153.6	3105.6	3020.0
22.5°	3276.7	3191.1	3132.2	3110.9	3057.5	3046.8	2982.7	2966.6	2902.5	2907.7	2833.0
25°	3068.1	2982.7	2902.5	2907.7	2859.8	2838.4	2800.9	2726.2	2699.4	2667.3	2646.0
27.5°	2822.3	2763.4	2693.9	2688.7	2597.8	2603.0	2555.1	2533.7	2469.4	2485.5	2437.4
30°	2597.8	2512.3	2448.1	2432.1	2394.7	2384.0	2309.2	2277.0	2287.9	2244.9	2218.3
32.5°	2367.9	2239.7	2212.9	2180.8	2159.5	2132.7	2079.3	2100.6	2052.5	2063.2	2020.4
35°	2063.2	2009.8	1940.2	1940.2	1918.9	1897.5	1860.2	1881.6	1833.4	1812.1	1769.3
37.5°	1806.6	1758.7	1689.1	1710.5	1673.0	1641.0	1608.9	1614.2	1571.4	1566.2	1523.3
40°	1528.7	1501.9	1454.0	1454.0	1427.2	1427.2	1411.0	1395.1	1368.3	1336.3	1288.1
42.5°	1266.7	1245.4	1224.0	1229.5	1192.0	1224.0	1181.3	1208.1	1122.5	1117.2	1085.0
45°	1074.3	1026.3	1031.6	1010.2	988.9	999.5	962.1	972.7	924.8	914.1	882.1
47.5°	871.4	855.2	823.2	812.5	812.5	796.4	780.5	775.0	753.7	726.9	684.2
50°	716.2	657.6	646.7	630.8	620.1	620.1	598.7	566.7	571.9	545.3	502.4
52.5°	561.2	513.1	491.7	486.5	465.1	454.4	427.6	406.3	390.1	379.5	352.9
55°	432.9	390.1	363.5	363.5	331.5	331.5	294.0	277.9	256.5	235.2	219.3
57.5°	326.1	304.7	277.9	256.5	245.9	219.3	197.7	171.1	155.0	122.9	101.6
60°	245.9	224.5	197.7	181.8	171.1	144.3	117.7	96.1	58.8	48.2	42.7
62.5°	181.8	160.4	133.6	122.9	112.2	90.9	64.1	32.0	16.1	16.1	16.1
65°	133.6	106.8	85.4	74.8	64.1	48.2	21.4	10.7	5.4	5.4	5.4
67.5°	90.9	69.5	48.2	42.7	32.0	16.1	5.4	5.4	5.4	5.4	5.4
70°	58.8	42.7	21.4	16.1	10.7	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	37.5	21.4	10.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.4	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.4	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	5.4	5.4	5.4
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: LD4C100D010 EX4C1009027 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8
2.5°	4351.0	4313.5	4334.9	4286.9	4308.3	4345.6	4319.0	4329.6
5°	4201.3	4179.9	4153.3	4083.8	4137.2	4179.9	4158.6	4153.3
7.5°	4041.1	3966.1	4003.6	3982.2	3971.5	4014.3	3966.1	4019.5
10°	3875.2	3821.8	3816.6	3779.1	3779.1	3811.1	3816.6	3784.3
12.5°	3629.4	3602.8	3602.8	3597.3	3591.9	3624.1	3629.4	3613.5
15°	3453.0	3442.4	3415.6	3410.3	3378.3	3426.2	3431.7	3426.2
17.5°	3239.2	3244.5	3217.9	3217.9	3239.2	3255.1	3212.4	3255.1
20°	3094.9	3068.1	3057.5	3009.3	3036.1	3062.9	3062.9	3068.1
22.5°	2886.4	2843.6	2859.8	2833.0	2816.8	2854.3	2854.3	2870.4
25°	2651.2	2651.2	2661.9	2646.0	2656.6	2678.0	2661.9	2699.4
27.5°	2426.7	2448.1	2448.1	2426.7	2437.4	2501.5	2528.3	2485.5
30°	2218.3	2223.6	2239.7	2229.0	2261.1	2282.4	2277.0	2309.2
32.5°	1983.2	2009.8	2020.4	2004.5	2015.2	2063.2	2036.6	2031.1
35°	1801.4	1753.2	1748.0	1753.2	1774.6	1785.3	1774.6	1812.1
37.5°	1539.4	1523.3	1501.9	1507.4	1523.3	1544.9	1555.5	1582.1
40°	1288.1	1266.7	1266.7	1261.5	1245.4	1304.2	1304.2	1304.2
42.5°	1069.1	1063.6	1037.0	1037.0	1058.4	1074.3	1063.6	1101.1
45°	876.6	855.2	839.1	839.1	855.2	855.2	871.4	865.9
47.5°	689.6	668.2	673.5	657.6	673.5	694.8	668.2	673.5
50°	518.5	518.5	507.8	518.5	513.1	518.5	507.8	497.2
52.5°	352.9	400.8	406.3	384.9	336.7	294.0	267.2	288.6
55°	203.1	181.8	181.8	176.3	165.6	160.4	144.3	160.4
57.5°	101.6	90.9	90.9	90.9	85.4	80.2	69.5	69.5
60°	42.7	37.5	37.5	32.0	26.8	21.4	16.1	21.4
62.5°	16.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7
65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
67.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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)