

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

**Test Information**

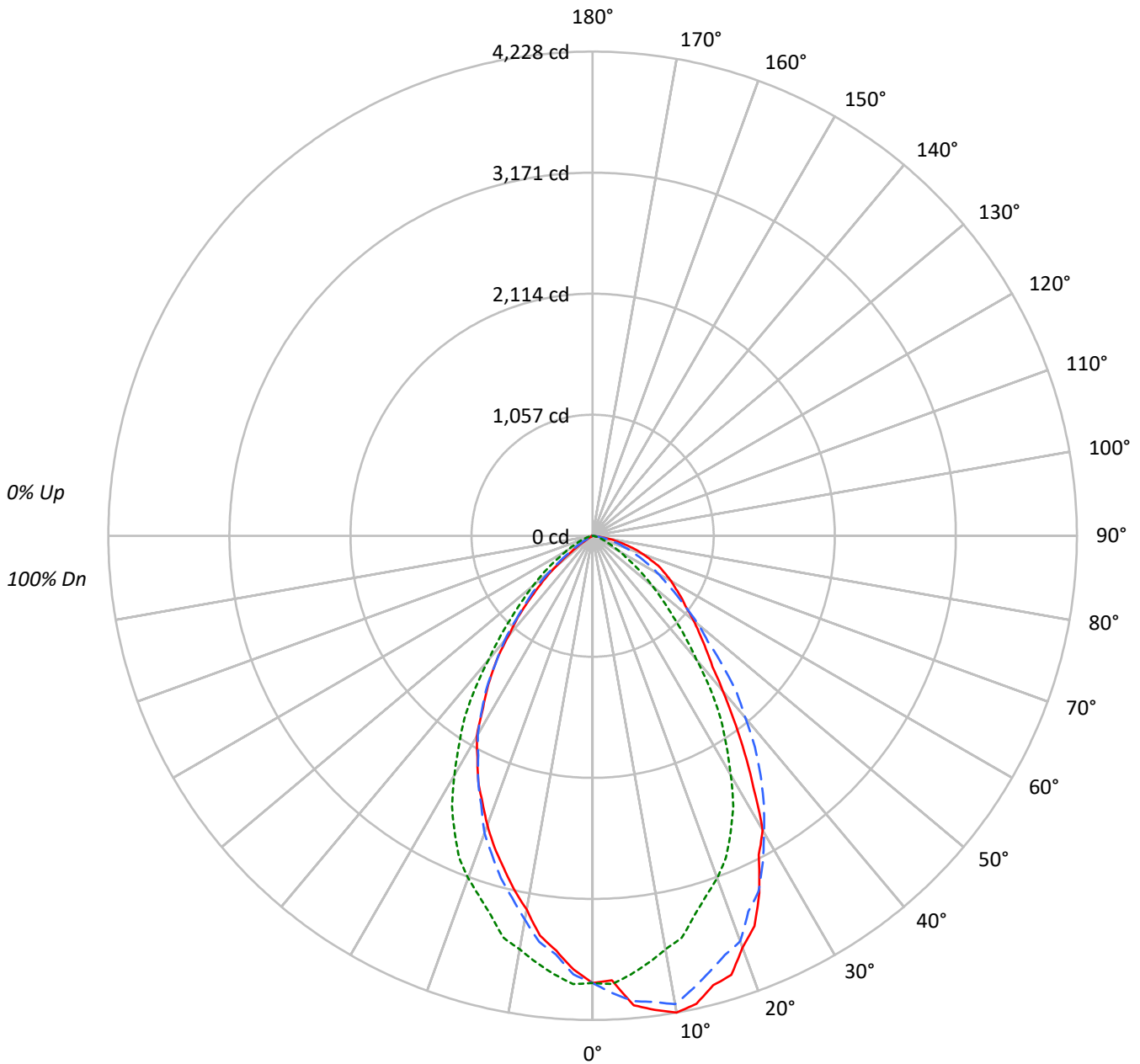
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C75D010 EX4C759050 4LBSQLWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**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<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: LD4C75D010 EX4C759050 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°	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	



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWH

**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



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWH

**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)