

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 EX4C759035 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 EX4C759035 4LBSQLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

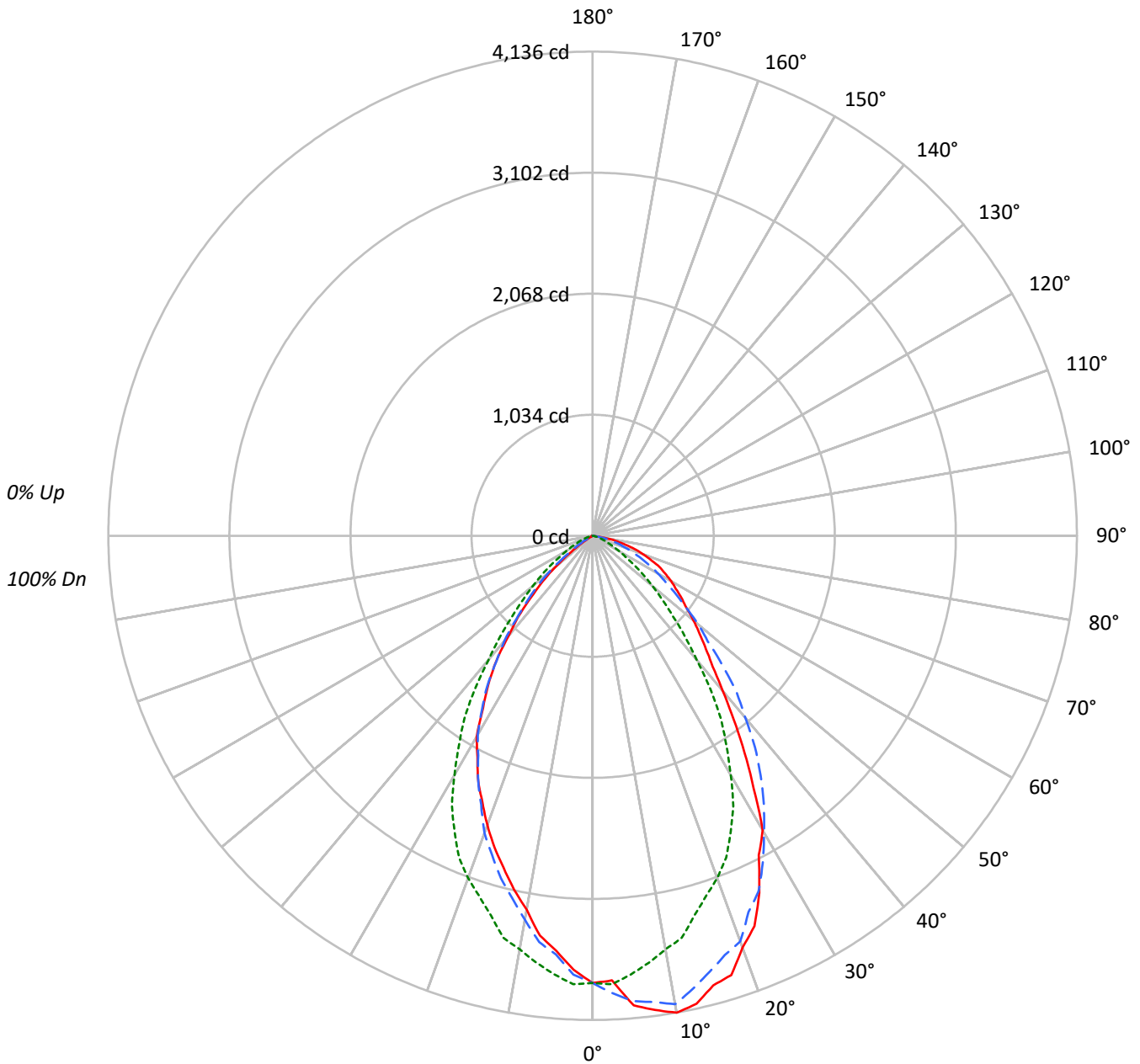
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5476.0 lumens
Efficiency: N/A
Efficacy: 67.2 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C75D010 EX4C759035 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°	368607	368607	368607
5°	389987	364262	344735
10°	405274	351416	317741
15°	397173	335390	293305
20°	384285	319359	269980
25°	358453	296981	246283
30°	323574	262830	220481
35°	266538	225005	182918
40°	217528	173670	140782
45°	186890	131898	101264
50°	169144	100409	63947
55°	155657	72420	23131
60°	149403	49480	3531
65°	144316	33471	1073
70°	129209	23246	1326
75°	105914	11967	0
80°	66234	5112	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759035 4LBSQLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	6.5
10°-20°	964.3	17.6
20°-30°	1287.7	23.5
30°-40°	1222.4	22.3
40°-50°	845.0	15.4
50°-60°	466.9	8.5
60°-70°	231.8	4.2
70°-80°	91.3	1.7
80°-90°	8.7	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°	2609.9	47.7
0°-40°	3832.3	70.0
0°-60°	5144.1	93.9
0°-90°	5476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3820	3820	3820	3820	3820	
5°	4026	3990	3761	3591	3559	385
15°	3976	3857	3358	3028	2936	1125
25°	3367	3353	2790	2313	2313	1535
35°	2263	2501	1910	1571	1553	1418
45°	1370	1571	967	792	742	1068
55°	925	870	430	220	138	833
65°	632	458	147	5	5	614
75°	284	174	32	0	0	303
85°	0	5	0	0	0	26
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759035 4LBSQLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3801.9	3907.2	3916.4	3907.2	3921.0	3916.4	3939.3	3916.4	3944.0	3902.7	3911.9
5°	4026.4	3985.1	4072.1	4026.4	4026.4	4021.9	4008.1	4003.4	4021.9	3962.3	3989.8
7.5°	4086.0	4145.5	4223.4	4127.2	4131.7	4131.7	4104.3	4095.1	4095.1	3985.1	4017.2
10°	4136.4	4099.6	4140.9	4104.3	4136.4	4131.7	4150.0	4090.5	4131.7	4067.7	4063.0
12.5°	4095.1	4081.3	4136.4	4076.8	4058.5	4063.0	4040.2	4026.4	4040.2	3966.8	3962.3
15°	3976.0	3989.8	4072.1	4008.1	3998.9	3989.8	3962.3	3916.4	3953.2	3852.3	3857.0
17.5°	3934.9	3911.9	3925.7	3870.6	3884.4	3875.3	3870.6	3829.5	3820.2	3756.1	3756.1
20°	3742.5	3792.7	3792.7	3756.1	3756.1	3751.6	3692.0	3728.7	3687.4	3669.1	3687.4
22.5°	3609.5	3614.2	3614.2	3582.0	3586.7	3568.4	3536.3	3513.3	3536.3	3513.3	3476.7
25°	3366.9	3376.0	3430.9	3371.4	3362.2	3380.5	3353.0	3339.2	3334.7	3279.8	3353.0
27.5°	3073.6	3165.2	3160.7	3137.7	3165.2	3128.5	3114.9	3119.4	3133.2	3128.5	3146.8
30°	2904.2	2917.9	2931.7	2913.4	2917.9	2904.2	2904.2	2908.7	2945.3	2931.7	2927.0
32.5°	2560.5	2606.3	2643.1	2643.1	2647.6	2661.4	2656.7	2752.9	2775.9	2730.1	2721.0
35°	2262.8	2294.9	2326.9	2331.6	2391.1	2395.6	2400.3	2427.7	2491.8	2505.6	2501.0
37.5°	1978.9	2010.9	2020.0	2061.3	2093.4	2125.4	2162.1	2198.8	2253.7	2299.4	2276.6
40°	1727.0	1740.6	1763.6	1781.9	1845.9	1845.9	1864.2	1937.6	1997.2	2033.8	2029.2
42.5°	1516.3	1520.8	1539.1	1571.2	1630.8	1616.9	1630.8	1681.2	1768.0	1772.7	1823.1
45°	1369.6	1365.0	1378.8	1383.3	1420.1	1438.4	1447.5	1484.1	1557.4	1566.5	1571.2
47.5°	1236.8	1232.2	1255.1	1264.3	1277.9	1296.2	1296.2	1300.9	1328.4	1351.3	1333.0
50°	1126.8	1126.8	1126.8	1136.0	1159.0	1154.3	1159.0	1177.3	1190.9	1181.7	1177.3
52.5°	1007.7	1026.0	1039.8	1044.5	1048.9	1048.9	1053.6	1044.5	1039.8	1026.0	998.5
55°	925.3	943.6	943.6	943.6	943.6	961.9	939.1	943.6	943.6	907.0	870.4
57.5°	842.9	861.2	874.9	856.6	874.9	856.6	847.4	842.9	833.6	797.0	742.1
60°	774.2	783.3	778.7	774.2	783.3	769.5	760.4	742.1	732.9	682.5	645.9
62.5°	696.3	700.8	705.5	696.3	687.2	682.5	664.2	636.7	618.4	577.1	545.0
65°	632.1	618.4	613.8	609.3	600.1	586.3	572.7	540.5	526.7	490.1	458.0
67.5°	535.9	531.4	540.5	526.7	503.9	503.9	490.1	462.7	430.5	407.7	375.6
70°	458.0	453.5	444.3	430.5	426.0	407.7	407.7	375.6	366.5	325.2	297.7
72.5°	375.6	375.6	361.8	348.2	334.3	325.2	320.7	297.7	284.1	261.1	238.1
75°	284.1	284.1	279.4	265.6	256.4	247.3	242.8	224.5	210.7	187.9	174.1
77.5°	201.5	201.5	183.2	174.1	178.6	169.4	160.3	155.8	151.1	137.5	119.2
80°	119.2	114.5	100.9	105.3	100.9	100.9	96.2	91.5	82.4	73.2	64.1
82.5°	32.1	36.6	36.6	36.6	41.3	32.1	32.1	32.1	36.6	36.6	23.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
87.5°	4.7	9.2	18.3	18.3	18.3	18.3	18.3	13.8	13.8	13.8	9.2
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 EX4C759035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3866.1	3861.5	3866.1	3834.0	3907.2	3852.3	3843.2	3834.0	3866.1	3834.0	3788.2
5°	3948.5	3902.7	3888.9	3875.3	3916.4	3852.3	3838.7	3843.2	3820.2	3760.8	3765.3
7.5°	3976.0	3934.9	3893.6	3806.5	3843.2	3829.5	3792.7	3765.3	3728.7	3678.2	3669.1
10°	3985.1	3939.3	3879.8	3852.3	3797.4	3779.1	3765.3	3719.5	3673.7	3586.7	3563.7
12.5°	3957.6	3902.7	3829.5	3806.5	3765.3	3705.7	3673.7	3627.8	3586.7	3518.0	3467.5
15°	3838.7	3792.7	3769.9	3692.0	3673.7	3637.0	3572.9	3508.8	3449.2	3357.5	3330.1
17.5°	3701.2	3682.9	3659.9	3600.3	3595.9	3559.2	3499.7	3444.6	3366.9	3224.7	3179.0
20°	3559.2	3559.2	3485.8	3463.1	3508.8	3435.4	3389.7	3339.2	3179.0	3110.2	3027.9
22.5°	3453.9	3403.5	3362.2	3325.6	3330.1	3284.3	3220.2	3119.4	3059.8	2977.4	2881.2
25°	3247.7	3266.0	3174.5	3160.7	3174.5	3069.0	3037.0	2954.5	2867.4	2789.5	2716.3
27.5°	3119.4	3069.0	3009.6	2959.1	2959.1	2917.9	2826.3	2808.0	2675.0	2601.8	2510.1
30°	2927.0	2890.4	2840.0	2766.7	2757.6	2725.5	2652.3	2606.3	2469.0	2359.0	2308.6
32.5°	2684.2	2670.6	2629.3	2546.9	2519.5	2482.7	2391.1	2313.3	2249.2	2125.4	2066.0
35°	2510.1	2459.9	2372.8	2304.1	2281.1	2217.1	2143.7	2088.7	2020.0	1910.2	1832.3
37.5°	2249.2	2198.8	2116.2	2033.8	2033.8	1969.8	1868.9	1814.0	1717.8	1653.6	1589.5
40°	2020.0	1955.9	1873.6	1777.4	1763.6	1671.9	1630.8	1539.1	1479.5	1378.8	1369.6
42.5°	1763.6	1704.0	1630.8	1557.4	1502.4	1456.7	1351.3	1282.6	1218.5	1168.1	1154.3
45°	1529.9	1452.0	1388.0	1296.2	1241.3	1186.4	1117.7	1071.9	1021.5	966.6	934.5
47.5°	1328.4	1264.3	1172.6	1090.2	1035.3	1007.7	929.8	879.5	838.3	801.7	778.7
50°	1122.3	1044.5	994.0	902.3	893.2	829.1	765.0	723.8	700.8	668.9	636.7
52.5°	966.6	893.2	824.4	755.9	719.1	696.3	636.7	595.5	563.5	540.5	522.2
55°	815.3	751.2	696.3	627.6	604.6	572.7	503.9	494.8	462.7	430.5	407.7
57.5°	700.8	641.2	577.1	531.4	490.1	467.3	412.2	375.6	357.3	329.8	306.9
60°	595.5	531.4	481.0	426.0	407.7	375.6	334.3	302.4	279.4	256.4	233.7
62.5°	499.3	444.3	389.4	343.5	316.0	297.7	265.6	238.1	215.4	197.0	178.6
65°	412.2	361.8	316.0	270.3	256.4	233.7	210.7	187.9	169.4	146.6	128.3
67.5°	339.0	293.2	247.3	215.4	201.5	192.4	164.9	142.0	128.3	114.5	96.2
70°	265.6	233.7	197.0	169.4	155.8	142.0	123.6	110.0	91.5	82.4	68.7
72.5°	206.2	178.6	146.6	123.6	114.5	105.3	87.0	73.2	64.1	54.9	45.8
75°	146.6	123.6	105.3	82.4	77.9	73.2	59.6	50.4	41.3	32.1	27.5
77.5°	100.9	82.4	64.1	54.9	50.4	41.3	36.6	27.5	23.0	18.3	13.8
80°	54.9	41.3	32.1	27.5	23.0	18.3	18.3	13.8	9.2	9.2	4.7
82.5°	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7	0.0	4.7
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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 EX4C759035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3815.7	3765.3	3779.1	3779.1	3769.9	3769.9	3760.8	3747.0	3751.6	3724.0	3664.6
5°	3774.4	3710.4	3701.2	3710.4	3673.7	3664.6	3646.3	3673.7	3591.2	3623.3	3586.7
7.5°	3655.4	3595.9	3582.0	3614.2	3568.4	3540.8	3536.3	3572.9	3499.7	3463.1	3421.8
10°	3522.5	3499.7	3458.4	3435.4	3421.8	3426.3	3389.7	3343.9	3330.1	3320.9	3284.3
12.5°	3403.5	3353.0	3316.4	3289.0	3279.8	3279.8	3220.2	3211.1	3169.8	3160.7	3105.7
15°	3261.3	3201.9	3179.0	3142.4	3110.2	3128.5	3059.8	3041.5	3027.9	2968.3	2977.4
17.5°	3137.7	3073.6	3018.7	2995.7	2968.3	2940.8	2876.6	2890.4	2858.3	2858.3	2775.9
20°	2977.4	2908.7	2867.4	2821.7	2821.7	2785.1	2739.3	2743.8	2702.5	2661.4	2588.0
22.5°	2808.0	2734.6	2684.2	2665.9	2620.1	2611.0	2556.1	2542.2	2487.3	2491.8	2427.7
25°	2629.3	2556.1	2487.3	2491.8	2450.7	2432.4	2400.3	2336.2	2313.3	2285.8	2267.5
27.5°	2418.6	2368.2	2308.6	2304.1	2226.2	2230.7	2189.6	2171.3	2116.2	2130.0	2088.7
30°	2226.2	2153.0	2097.9	2084.3	2052.1	2043.0	1978.9	1951.3	1960.6	1923.8	1901.0
32.5°	2029.2	1919.3	1896.4	1868.9	1850.6	1827.6	1781.9	1800.2	1758.9	1768.0	1731.4
35°	1768.0	1722.3	1662.7	1662.7	1644.4	1626.1	1594.2	1612.5	1571.2	1552.9	1516.3
37.5°	1548.2	1507.1	1447.5	1465.8	1433.7	1406.3	1378.8	1383.3	1346.7	1342.2	1305.4
40°	1310.1	1287.1	1246.0	1246.0	1223.0	1223.0	1209.2	1195.6	1172.6	1145.1	1103.9
42.5°	1085.6	1067.3	1048.9	1053.6	1021.5	1048.9	1012.3	1035.3	961.9	957.4	929.8
45°	920.6	879.5	884.0	865.7	847.4	856.6	824.4	833.6	792.5	783.3	755.9
47.5°	746.7	732.9	705.5	696.3	696.3	682.5	668.9	664.2	645.9	622.9	586.3
50°	613.8	563.5	554.2	540.5	531.4	531.4	513.1	485.6	490.1	467.3	430.5
52.5°	481.0	439.7	421.4	416.9	398.6	389.4	366.5	348.2	334.3	325.2	302.4
55°	370.9	334.3	311.5	311.5	284.1	284.1	252.0	238.1	219.8	201.5	187.9
57.5°	279.4	261.1	238.1	219.8	210.7	187.9	169.4	146.6	132.8	105.3	87.0
60°	210.7	192.4	169.4	155.8	146.6	123.6	100.9	82.4	50.4	41.3	36.6
62.5°	155.8	137.5	114.5	105.3	96.2	77.9	54.9	27.5	13.8	13.8	13.8
65°	114.5	91.5	73.2	64.1	54.9	41.3	18.3	9.2	4.7	4.7	4.7
67.5°	77.9	59.6	41.3	36.6	27.5	13.8	4.7	4.7	4.7	4.7	4.7
70°	50.4	36.6	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	32.1	18.3	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	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	4.7	4.7	4.7
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 EX4C759035 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3728.7	3696.5	3714.8	3673.7	3692.0	3724.0	3701.2	3710.4
5°	3600.3	3582.0	3559.2	3499.7	3545.4	3582.0	3563.7	3559.2
7.5°	3463.1	3398.8	3430.9	3412.6	3403.5	3440.1	3398.8	3444.6
10°	3320.9	3275.2	3270.7	3238.6	3238.6	3266.0	3270.7	3243.0
12.5°	3110.2	3087.4	3087.4	3082.8	3078.1	3105.7	3110.2	3096.6
15°	2959.1	2950.0	2927.0	2922.5	2895.1	2936.2	2940.8	2936.2
17.5°	2775.9	2780.4	2757.6	2757.6	2775.9	2789.5	2752.9	2789.5
20°	2652.3	2629.3	2620.1	2578.9	2601.8	2624.8	2624.8	2629.3
22.5°	2473.5	2436.9	2450.7	2427.7	2413.9	2446.1	2446.1	2459.9
25°	2272.0	2272.0	2281.1	2267.5	2276.6	2294.9	2281.1	2313.3
27.5°	2079.6	2097.9	2097.9	2079.6	2088.7	2143.7	2166.6	2130.0
30°	1901.0	1905.5	1919.3	1910.2	1937.6	1955.9	1951.3	1978.9
32.5°	1699.5	1722.3	1731.4	1717.8	1727.0	1768.0	1745.3	1740.6
35°	1543.7	1502.4	1498.0	1502.4	1520.8	1529.9	1520.8	1552.9
37.5°	1319.2	1305.4	1287.1	1291.8	1305.4	1323.9	1333.0	1355.8
40°	1103.9	1085.6	1085.6	1081.1	1067.3	1117.7	1117.7	1117.7
42.5°	916.1	911.5	888.7	888.7	907.0	920.6	911.5	943.6
45°	751.2	732.9	719.1	719.1	732.9	732.9	746.7	742.1
47.5°	591.0	572.7	577.1	563.5	577.1	595.5	572.7	577.1
50°	444.3	444.3	435.2	444.3	439.7	444.3	435.2	426.0
52.5°	302.4	343.5	348.2	329.8	288.6	252.0	229.0	247.3
55°	174.1	155.8	155.8	151.1	142.0	137.5	123.6	137.5
57.5°	87.0	77.9	77.9	77.9	73.2	68.7	59.6	59.6
60°	36.6	32.1	32.1	27.5	23.0	18.3	13.8	18.3
62.5°	13.8	9.2	9.2	9.2	9.2	9.2	9.2	9.2
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)