

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 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: LD4C75D010 EX4C759035 4LBSQLWWLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

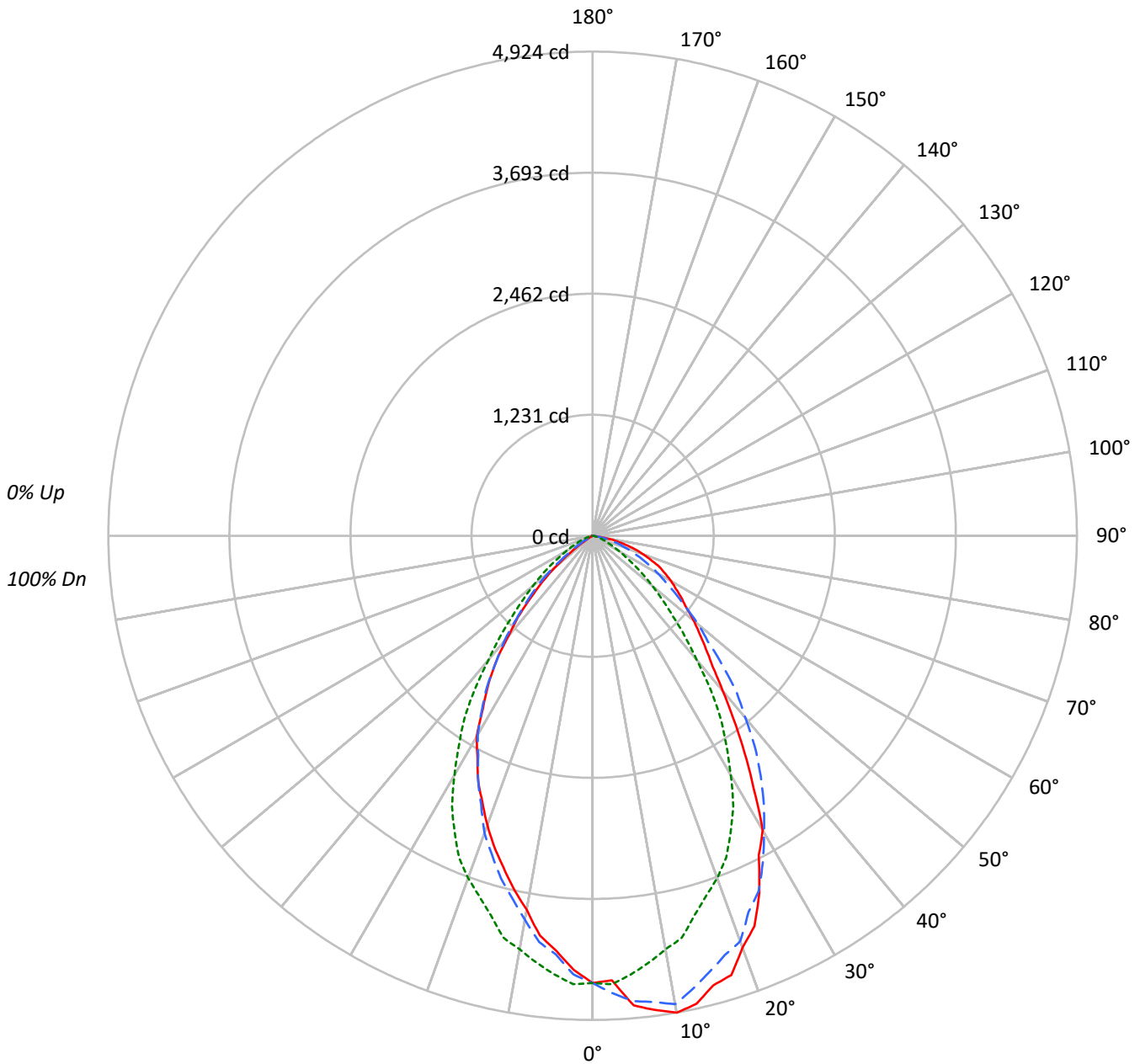
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6519.0 lumens
Efficiency: N/A
Efficacy: 80.0 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 (Ain): 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°	438812	438812	438812
5°	464267	433641	410404
10°	482460	418354	378261
15°	472812	399271	349165
20°	457476	380188	321403
25°	426717	353555	293180
30°	385209	312889	262473
35°	317306	267857	217749
40°	258956	206746	167599
45°	222491	157020	120545
50°	201373	119518	76136
55°	185298	86214	27521
60°	177868	58916	4207
65°	171782	39840	1279
70°	153809	27675	1580
75°	126082	14241	0
80°	78848	6057	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.1	6.5
10°-20°	1148.0	17.6
20°-30°	1532.9	23.5
30°-40°	1455.2	22.3
40°-50°	1005.9	15.4
50°-60°	555.8	8.5
60°-70°	276.0	4.2
70°-80°	108.7	1.7
80°-90°	10.4	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°	3107.0	47.7
0°-40°	4562.2	70.0
0°-60°	6123.9	93.9
0°-90°	6519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6519.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4548	4548	4548	4548	4548	
5°	4793	4750	4477	4275	4237	459
15°	4733	4592	3997	3605	3495	1339
25°	4008	3992	3321	2754	2754	1827
35°	2694	2977	2274	1870	1849	1688
45°	1630	1870	1151	943	883	1272
55°	1102	1036	512	262	164	991
65°	752	545	174	6	6	730
75°	338	207	38	0	0	360
85°	0	6	0	0	0	31
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°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4526.0	4651.4	4662.3	4651.4	4667.9	4662.3	4689.7	4662.3	4695.2	4646.1	4657.0
5°	4793.3	4744.1	4847.8	4793.3	4793.3	4787.9	4771.5	4765.9	4787.9	4717.0	4749.7
7.5°	4864.2	4935.1	5027.9	4913.3	4918.7	4918.7	4886.0	4875.1	4875.1	4744.1	4782.4
10°	4924.2	4880.4	4929.6	4886.0	4924.2	4918.7	4940.5	4869.5	4918.7	4842.4	4836.9
12.5°	4875.1	4858.7	4924.2	4853.3	4831.5	4836.9	4809.7	4793.3	4809.7	4722.3	4717.0
15°	4733.2	4749.7	4847.8	4771.5	4760.6	4749.7	4717.0	4662.3	4706.1	4586.0	4591.6
17.5°	4684.3	4657.0	4673.4	4607.8	4624.3	4613.4	4607.8	4558.9	4547.8	4471.5	4471.5
20°	4455.3	4515.1	4515.1	4471.5	4471.5	4466.2	4395.3	4438.8	4389.7	4367.9	4389.7
22.5°	4297.0	4302.5	4302.5	4264.3	4269.9	4248.1	4209.8	4182.5	4209.8	4182.5	4138.9
25°	4008.1	4019.0	4084.4	4013.5	4002.6	4024.4	3991.7	3975.2	3969.9	3904.5	3991.7
27.5°	3659.1	3768.0	3762.7	3735.3	3768.0	3724.4	3708.2	3713.5	3730.0	3724.4	3746.2
30°	3457.4	3473.6	3490.1	3468.3	3473.6	3457.4	3457.4	3462.7	3506.3	3490.1	3484.5
32.5°	3048.2	3102.7	3146.5	3146.5	3151.9	3168.3	3162.8	3277.3	3304.6	3250.1	3239.2
35°	2693.8	2732.1	2770.1	2775.6	2846.6	2851.9	2857.5	2890.2	2966.4	2982.9	2977.3
37.5°	2355.8	2393.9	2404.8	2453.9	2492.1	2530.2	2574.0	2617.5	2682.9	2737.4	2710.3
40°	2055.9	2072.1	2099.5	2121.3	2197.5	2197.5	2219.3	2306.7	2377.6	2421.2	2415.7
42.5°	1805.1	1810.4	1832.2	1870.4	1941.4	1924.9	1941.4	2001.4	2104.8	2110.4	2170.4
45°	1630.5	1625.0	1641.4	1646.8	1690.6	1712.3	1723.2	1766.8	1854.0	1864.9	1870.4
47.5°	1472.4	1466.9	1494.2	1505.1	1521.3	1543.1	1543.1	1548.7	1581.4	1608.7	1586.9
50°	1341.5	1341.5	1341.5	1352.4	1379.7	1374.1	1379.7	1401.5	1417.7	1406.8	1401.5
52.5°	1199.6	1221.4	1237.8	1243.4	1248.7	1248.7	1254.3	1243.4	1237.8	1221.4	1188.7
55°	1101.5	1123.3	1123.3	1123.3	1123.3	1145.1	1118.0	1123.3	1123.3	1079.7	1036.2
57.5°	1003.5	1025.3	1041.5	1019.7	1041.5	1019.7	1008.8	1003.5	992.4	948.8	883.4
60°	921.7	932.5	927.0	921.7	932.5	916.1	905.2	883.4	872.5	812.5	768.9
62.5°	828.9	834.3	839.8	828.9	818.0	812.5	790.7	758.0	736.2	687.1	648.8
65°	752.4	736.2	730.7	725.3	714.4	698.0	681.7	643.5	627.0	583.5	545.2
67.5°	637.9	632.6	643.5	627.0	599.9	599.9	583.5	550.8	512.5	485.4	447.2
70°	545.2	539.9	529.0	512.5	507.2	485.4	485.4	447.2	436.3	387.1	354.4
72.5°	447.2	447.2	430.7	414.5	398.0	387.1	381.8	354.4	338.2	310.8	283.5
75°	338.2	338.2	332.6	316.2	305.3	294.4	289.1	267.3	250.8	223.7	207.2
77.5°	239.9	239.9	218.1	207.2	212.6	201.7	190.8	185.4	179.9	163.6	141.9
80°	141.9	136.3	120.1	125.4	120.1	120.1	114.5	109.0	98.1	87.2	76.3
82.5°	38.2	43.6	43.6	43.6	49.1	38.2	38.2	38.2	43.6	43.6	27.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6
87.5°	5.6	10.9	21.8	21.8	21.8	21.8	21.8	16.5	16.5	16.5	10.9
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°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4602.5	4596.9	4602.5	4564.3	4651.4	4586.0	4575.1	4564.3	4602.5	4564.3	4509.8
5°	4700.6	4646.1	4629.6	4613.4	4662.3	4586.0	4569.8	4575.1	4547.8	4477.1	4482.4
7.5°	4733.2	4684.3	4635.2	4531.6	4575.1	4558.9	4515.1	4482.4	4438.8	4378.8	4367.9
10°	4744.1	4689.7	4618.7	4586.0	4520.7	4498.9	4482.4	4428.0	4373.5	4269.9	4242.5
12.5°	4711.5	4646.1	4558.9	4531.6	4482.4	4411.5	4373.5	4318.8	4269.9	4188.0	4128.0
15°	4569.8	4515.1	4488.0	4395.3	4373.5	4329.7	4253.4	4177.1	4106.2	3997.0	3964.3
17.5°	4406.2	4384.4	4357.0	4286.1	4280.8	4237.2	4166.2	4100.7	4008.1	3838.9	3784.5
20°	4237.2	4237.2	4149.8	4122.7	4177.1	4089.8	4035.3	3975.2	3784.5	3702.6	3604.6
22.5°	4111.8	4051.7	4002.6	3959.0	3964.3	3909.9	3833.6	3713.5	3642.6	3544.5	3430.0
25°	3866.3	3888.1	3779.1	3762.7	3779.1	3653.5	3615.5	3517.2	3413.6	3320.9	3233.7
27.5°	3713.5	3653.5	3582.8	3522.7	3522.7	3473.6	3364.7	3342.9	3184.6	3097.4	2988.2
30°	3484.5	3440.9	3380.9	3293.7	3282.8	3244.6	3157.4	3102.7	2939.3	2808.3	2748.3
32.5°	3195.4	3179.2	3130.1	3032.0	2999.3	2955.5	2846.6	2753.8	2677.6	2530.2	2459.5
35°	2988.2	2928.4	2824.8	2743.0	2715.6	2639.3	2552.0	2486.6	2404.8	2274.0	2181.3
37.5°	2677.6	2617.5	2519.3	2421.2	2421.2	2344.9	2224.9	2159.5	2045.0	1968.5	1892.2
40°	2404.8	2328.5	2230.4	2115.9	2099.5	1990.3	1941.4	1832.2	1761.3	1641.4	1630.5
42.5°	2099.5	2028.5	1941.4	1854.0	1788.6	1734.1	1608.7	1526.9	1450.6	1390.6	1374.1
45°	1821.3	1728.6	1652.3	1543.1	1477.8	1412.4	1330.6	1276.1	1216.1	1150.7	1112.4
47.5°	1581.4	1505.1	1395.9	1297.9	1232.5	1199.6	1106.9	1047.1	997.9	954.3	927.0
50°	1336.1	1243.4	1183.4	1074.2	1063.3	987.0	910.8	861.6	834.3	796.2	758.0
52.5°	1150.7	1063.3	981.5	899.9	856.1	828.9	758.0	708.9	670.8	643.5	621.7
55°	970.6	894.3	828.9	747.1	719.8	681.7	599.9	589.0	550.8	512.5	485.4
57.5°	834.3	763.3	687.1	632.6	583.5	556.3	490.7	447.2	425.4	392.7	365.3
60°	708.9	632.6	572.6	507.2	485.4	447.2	398.0	360.0	332.6	305.3	278.2
62.5°	594.4	529.0	463.6	408.9	376.2	354.4	316.2	283.5	256.4	234.6	212.6
65°	490.7	430.7	376.2	321.7	305.3	278.2	250.8	223.7	201.7	174.5	152.8
67.5°	403.6	349.1	294.4	256.4	239.9	229.0	196.3	169.0	152.8	136.3	114.5
70°	316.2	278.2	234.6	201.7	185.4	169.0	147.2	131.0	109.0	98.1	81.8
72.5°	245.5	212.6	174.5	147.2	136.3	125.4	103.6	87.2	76.3	65.4	54.5
75°	174.5	147.2	125.4	98.1	92.7	87.2	70.9	60.0	49.1	38.2	32.7
77.5°	120.1	98.1	76.3	65.4	60.0	49.1	43.6	32.7	27.3	21.8	16.5
80°	65.4	49.1	38.2	32.7	27.3	21.8	21.8	16.5	10.9	10.9	5.6
82.5°	21.8	16.5	10.9	5.6	5.6	5.6	5.6	5.6	5.6	0.0	5.6
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4542.5	4482.4	4498.9	4498.9	4488.0	4488.0	4477.1	4460.6	4466.2	4433.3	4362.6
5°	4493.3	4417.1	4406.2	4417.1	4373.5	4362.6	4340.8	4373.5	4275.2	4313.4	4269.9
7.5°	4351.7	4280.8	4264.3	4302.5	4248.1	4215.2	4209.8	4253.4	4166.2	4122.7	4073.5
10°	4193.4	4166.2	4117.1	4089.8	4073.5	4078.9	4035.3	3980.8	3964.3	3953.5	3909.9
12.5°	4051.7	3991.7	3948.1	3915.4	3904.5	3904.5	3833.6	3822.7	3773.6	3762.7	3697.3
15°	3882.5	3811.8	3784.5	3740.9	3702.6	3724.4	3642.6	3620.8	3604.6	3533.6	3544.5
17.5°	3735.3	3659.1	3593.7	3566.3	3533.6	3501.0	3424.5	3440.9	3402.7	3402.7	3304.6
20°	3544.5	3462.7	3413.6	3359.1	3359.1	3315.5	3261.0	3266.4	3217.2	3168.3	3080.9
22.5°	3342.9	3255.5	3195.4	3173.7	3119.2	3108.3	3042.9	3026.5	2961.1	2966.4	2890.2
25°	3130.1	3042.9	2961.1	2966.4	2917.5	2895.7	2857.5	2781.2	2753.8	2721.2	2699.4
27.5°	2879.3	2819.2	2748.3	2743.0	2650.2	2655.6	2606.6	2584.9	2519.3	2535.7	2486.6
30°	2650.2	2563.1	2497.5	2481.2	2443.0	2432.1	2355.8	2322.9	2334.0	2290.2	2263.1
32.5°	2415.7	2284.9	2257.6	2224.9	2203.1	2175.7	2121.3	2143.0	2093.9	2104.8	2061.2
35°	2104.8	2050.3	1979.4	1979.4	1957.6	1935.8	1897.8	1919.6	1870.4	1848.6	1805.1
37.5°	1843.1	1794.2	1723.2	1745.0	1706.8	1674.1	1641.4	1646.8	1603.2	1597.8	1554.0
40°	1559.6	1532.2	1483.3	1483.3	1456.0	1456.0	1439.5	1423.3	1395.9	1363.3	1314.1
42.5°	1292.3	1270.5	1248.7	1254.3	1216.1	1248.7	1205.2	1232.5	1145.1	1139.8	1106.9
45°	1096.0	1047.1	1052.4	1030.6	1008.8	1019.7	981.5	992.4	943.4	932.5	899.9
47.5°	889.0	872.5	839.8	828.9	828.9	812.5	796.2	790.7	768.9	741.6	698.0
50°	730.7	670.8	659.7	643.5	632.6	632.6	610.8	578.1	583.5	556.3	512.5
52.5°	572.6	523.4	501.6	496.3	474.5	463.6	436.3	414.5	398.0	387.1	360.0
55°	441.6	398.0	370.9	370.9	338.2	338.2	300.0	283.5	261.7	239.9	223.7
57.5°	332.6	310.8	283.5	261.7	250.8	223.7	201.7	174.5	158.1	125.4	103.6
60°	250.8	229.0	201.7	185.4	174.5	147.2	120.1	98.1	60.0	49.1	43.6
62.5°	185.4	163.6	136.3	125.4	114.5	92.7	65.4	32.7	16.5	16.5	16.5
65°	136.3	109.0	87.2	76.3	65.4	49.1	21.8	10.9	5.6	5.6	5.6
67.5°	92.7	70.9	49.1	43.6	32.7	16.5	5.6	5.6	5.6	5.6	5.6
70°	60.0	43.6	21.8	16.5	10.9	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	38.2	21.8	10.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	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	5.6	5.6	5.6
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: LD4C75D010 EX4C759035 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8	4547.8
2.5°	4438.8	4400.6	4422.4	4373.5	4395.3	4433.3	4406.2	4417.1
5°	4286.1	4264.3	4237.2	4166.2	4220.7	4264.3	4242.5	4237.2
7.5°	4122.7	4046.2	4084.4	4062.6	4051.7	4095.3	4046.2	4100.7
10°	3953.5	3899.0	3893.6	3855.4	3855.4	3888.1	3893.6	3860.7
12.5°	3702.6	3675.5	3675.5	3669.9	3664.4	3697.3	3702.6	3686.4
15°	3522.7	3511.9	3484.5	3479.2	3446.5	3495.4	3501.0	3495.4
17.5°	3304.6	3310.0	3282.8	3282.8	3304.6	3320.9	3277.3	3320.9
20°	3157.4	3130.1	3119.2	3070.0	3097.4	3124.7	3124.7	3130.1
22.5°	2944.6	2901.0	2917.5	2890.2	2873.7	2911.9	2911.9	2928.4
25°	2704.7	2704.7	2715.6	2699.4	2710.3	2732.1	2715.6	2753.8
27.5°	2475.7	2497.5	2497.5	2475.7	2486.6	2552.0	2579.3	2535.7
30°	2263.1	2268.5	2284.9	2274.0	2306.7	2328.5	2322.9	2355.8
32.5°	2023.2	2050.3	2061.2	2045.0	2055.9	2104.8	2077.7	2072.1
35°	1837.8	1788.6	1783.3	1788.6	1810.4	1821.3	1810.4	1848.6
37.5°	1570.5	1554.0	1532.2	1537.8	1554.0	1576.0	1586.9	1614.1
40°	1314.1	1292.3	1292.3	1287.0	1270.5	1330.6	1330.6	1330.6
42.5°	1090.6	1085.1	1058.0	1058.0	1079.7	1096.0	1085.1	1123.3
45°	894.3	872.5	856.1	856.1	872.5	872.5	889.0	883.4
47.5°	703.5	681.7	687.1	670.8	687.1	708.9	681.7	687.1
50°	529.0	529.0	518.1	529.0	523.4	529.0	518.1	507.2
52.5°	360.0	408.9	414.5	392.7	343.5	300.0	272.6	294.4
55°	207.2	185.4	185.4	179.9	169.0	163.6	147.2	163.6
57.5°	103.6	92.7	92.7	92.7	87.2	81.8	70.9	70.9
60°	43.6	38.2	38.2	32.7	27.3	21.8	16.5	21.8
62.5°	16.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)