

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: P859606

Luminaire Tested: **LX4C75D010 EX4C759050 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C75D010 EX4C759050 4LBSWNH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

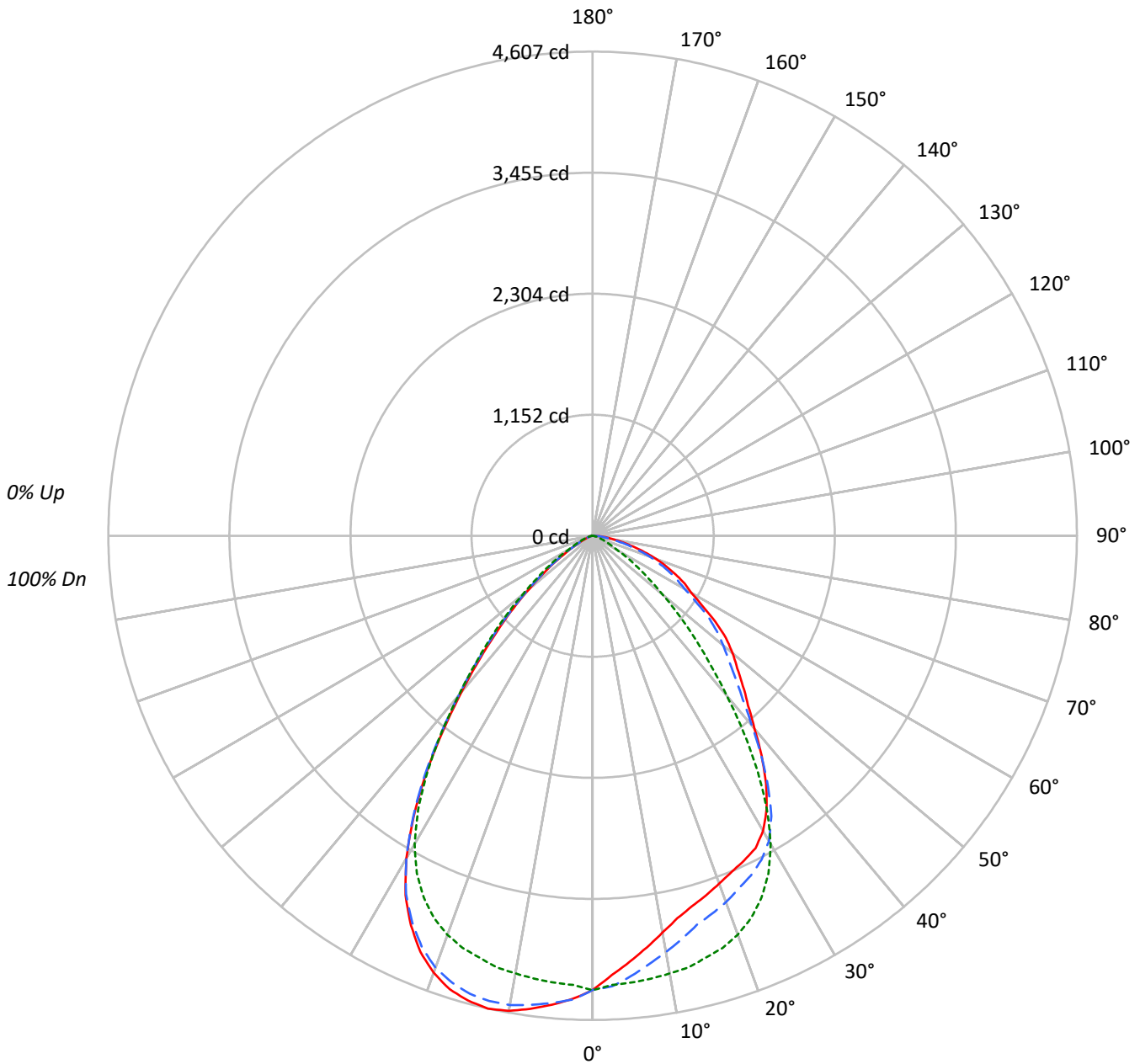
Lumens per Lamp: N/A
Luminaire Lumens: 7578.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	531108	531108	531108
5°	501529	526268	552375
10°	478149	527487	572646
15°	464106	528603	582429
20°	460302	528051	578306
25°	462157	515037	554280
30°	459964	480491	502621
35°	431122	410260	414415
40°	384175	318085	310933
45°	351339	237139	222614
50°	332196	166127	150130
55°	305497	112171	94243
60°	266887	65677	51992
65°	252673	42093	29128
70°	230139	30029	18032
75°	190437	21170	13291
80°	149704	11886	7853
85°	133629	8035	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.4	5.4
10°-20°	1171.8	15.5
20°-30°	1737.1	22.9
30°-40°	1739.5	23.0
40°-50°	1215.7	16.0
50°-60°	723.4	9.5
60°-70°	377.5	5.0
70°-80°	167.9	2.2
80°-90°	36.6	0.5
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°	3317.4	43.8
0°-40°	5056.9	66.7
0°-60°	6996.0	92.3
0°-90°	7578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4323	4323	4323	4323	4323	
5°	4067	4206	4267	4462	4479	381
15°	3649	3833	4156	4512	4579	1033
25°	3409	3566	3800	4061	4089	1571
35°	2875	2908	2736	2786	2763	1782
45°	2022	1922	1365	1320	1281	1570
55°	1426	1337	524	457	440	1266
65°	869	797	145	106	100	860
75°	401	351	45	28	28	434
85°	95	72	6	6	0	106
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°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	4183.8	4234.0	4183.8	4200.6	4267.4	4206.1	4239.5	4239.5	4222.9	4261.8	4289.7
5°	4066.8	4117.0	4066.8	4089.0	4161.5	4100.2	4139.3	4128.1	4133.8	4167.2	4206.1
7.5°	3949.9	3988.8	3944.2	3972.2	4039.0	3988.8	4022.2	4022.2	4027.9	4077.9	4111.5
10°	3832.9	3866.3	3832.9	3855.1	3927.6	3883.1	3905.4	3910.8	3927.6	3972.2	4022.2
12.5°	3726.9	3754.9	3721.5	3754.9	3816.0	3771.5	3799.5	3804.9	3821.7	3872.0	3927.6
15°	3649.0	3676.9	3643.5	3671.3	3726.9	3693.5	3715.8	3726.9	3738.1	3782.6	3832.9
17.5°	3587.8	3610.1	3582.2	3615.6	3660.1	3621.2	3654.7	3654.7	3671.3	3715.8	3771.5
20°	3520.8	3543.1	3520.8	3548.7	3599.0	3565.6	3593.3	3593.3	3610.1	3660.1	3710.4
22.5°	3459.6	3470.8	3459.6	3481.9	3531.9	3504.2	3520.8	3526.5	3543.1	3587.8	3632.4
25°	3409.4	3431.7	3420.6	3442.8	3476.2	3448.5	3465.1	3470.8	3487.4	3526.5	3565.6
27.5°	3353.7	3364.9	3353.7	3381.7	3409.4	3387.1	3404.0	3398.3	3409.4	3442.8	3476.2
30°	3242.4	3253.5	3253.5	3270.1	3292.6	3281.4	3298.0	3281.4	3292.6	3320.3	3353.7
32.5°	3080.7	3086.4	3091.9	3108.7	3125.3	3108.7	3119.8	3119.8	3119.8	3142.1	3164.4
35°	2874.6	2885.7	2880.3	2891.4	2908.0	2902.5	2902.5	2896.9	2885.7	2896.9	2908.0
37.5°	2640.7	2623.9	2623.9	2640.7	2651.8	2629.6	2640.7	2629.6	2629.6	2635.0	2635.0
40°	2395.5	2378.9	2395.5	2401.1	2406.6	2395.5	2390.0	2378.9	2362.0	2367.7	2356.6
42.5°	2189.5	2178.2	2183.8	2183.8	2189.5	2178.2	2183.8	2161.6	2144.8	2133.6	2117.0
45°	2022.2	2005.6	2022.2	2011.1	2011.1	2005.6	2000.0	1988.8	1966.6	1950.0	1922.0
47.5°	1866.3	1866.3	1871.8	1871.8	1871.8	1860.6	1860.6	1838.4	1816.1	1793.8	1754.9
50°	1738.1	1727.0	1749.3	1749.3	1732.7	1727.0	1732.7	1704.7	1688.1	1660.2	1621.1
52.5°	1598.8	1598.8	1604.5	1604.5	1598.8	1587.7	1593.3	1571.1	1554.2	1526.5	1487.4
55°	1426.3	1415.1	1431.7	1431.7	1426.3	1420.6	1426.3	1409.5	1392.9	1370.6	1336.9
57.5°	1231.3	1225.6	1236.7	1242.4	1231.3	1231.3	1236.7	1220.1	1214.4	1192.2	1158.7
60°	1086.2	1080.8	1091.9	1097.6	1086.2	1086.2	1086.2	1064.0	1052.8	1030.6	1008.3
62.5°	986.0	980.5	991.7	986.0	980.5	974.9	980.5	958.3	947.1	924.9	902.6
65°	869.2	874.6	880.3	880.3	874.6	869.2	869.2	858.0	846.9	824.6	796.7
67.5°	757.6	757.6	763.3	768.7	763.3	763.3	763.3	746.4	735.3	718.7	685.3
70°	640.7	635.1	651.9	651.9	640.7	646.2	640.7	635.1	623.9	601.6	573.9
72.5°	518.0	518.0	523.7	523.7	518.0	518.0	518.0	512.5	495.7	484.6	456.9
75°	401.2	401.2	406.6	412.3	401.2	401.2	406.6	395.5	384.4	367.8	350.9
77.5°	300.9	295.3	300.9	300.9	295.3	295.3	295.3	289.8	284.1	267.3	250.7
80°	211.6	206.2	211.6	211.6	211.6	206.2	206.2	200.5	200.5	189.3	172.7
82.5°	144.8	139.3	144.8	144.8	144.8	139.3	139.3	139.3	133.7	128.2	117.1
85°	94.8	89.1	89.1	94.8	89.1	89.1	89.1	89.1	83.6	78.0	72.5
87.5°	44.6	44.6	44.6	44.6	44.6	44.6	44.6	39.1	39.1	39.1	33.4
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°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	4267.4	4256.3	4289.7	4278.6	4284.0	4256.3	4300.9	4278.6	4306.3	4278.6	4334.3
5°	4194.9	4183.8	4234.0	4228.4	4234.0	4211.8	4261.8	4256.3	4289.7	4267.4	4328.6
7.5°	4117.0	4105.8	4161.5	4167.2	4178.3	4156.1	4222.9	4222.9	4256.3	4250.6	4317.5
10°	4027.9	4033.3	4089.0	4100.2	4122.7	4111.5	4172.7	4189.5	4234.0	4228.4	4312.0
12.5°	3944.2	3944.2	4016.7	4039.0	4055.6	4050.2	4122.7	4144.9	4194.9	4206.1	4284.0
15°	3860.8	3866.3	3933.1	3966.5	3988.8	3983.3	4061.3	4089.0	4150.4	4156.1	4250.6
17.5°	3793.8	3788.3	3860.8	3888.6	3922.0	3916.5	3999.9	4033.3	4094.7	4111.5	4200.6
20°	3738.1	3732.6	3799.5	3832.9	3855.1	3849.7	3933.1	3972.2	4027.9	4039.0	4128.1
22.5°	3671.3	3660.1	3726.9	3754.9	3777.2	3771.5	3844.0	3872.0	3927.6	3938.8	4022.2
25°	3593.3	3582.2	3643.5	3660.1	3676.9	3665.8	3726.9	3743.8	3788.3	3799.5	3883.1
27.5°	3504.2	3476.2	3526.5	3526.5	3537.6	3520.8	3565.6	3582.2	3621.2	3621.2	3699.2
30°	3364.9	3326.0	3353.7	3348.3	3353.7	3331.5	3359.4	3364.9	3392.8	3387.1	3442.8
32.5°	3169.8	3114.2	3131.0	3114.2	3097.6	3064.2	3097.6	3086.4	3108.7	3086.4	3136.4
35°	2902.5	2846.9	2841.2	2818.9	2802.3	2774.4	2774.4	2746.6	2752.1	2735.5	2768.9
37.5°	2612.8	2540.5	2529.3	2484.8	2456.8	2423.4	2423.4	2401.1	2373.2	2362.0	2390.0
40°	2328.6	2250.7	2222.9	2150.4	2122.5	2089.1	2066.8	2039.1	2027.9	1983.4	2005.6
42.5°	2083.6	2000.0	1938.8	1860.6	1832.9	1782.7	1749.3	1715.8	1699.2	1649.0	1671.3
45°	1877.5	1777.2	1710.4	1609.9	1571.1	1515.4	1465.1	1426.3	1387.2	1364.9	1353.8
47.5°	1704.7	1598.8	1509.7	1398.3	1336.9	1286.9	1220.1	1181.0	1131.0	1103.1	1086.2
50°	1559.9	1442.9	1342.6	1214.4	1153.3	1097.6	1019.4	958.3	913.7	869.2	858.0
52.5°	1431.7	1309.2	1197.8	1052.8	980.5	913.7	830.1	763.3	724.2	674.2	668.5
55°	1281.3	1175.6	1052.8	902.6	830.1	763.3	674.2	607.3	557.1	523.7	512.5
57.5°	1119.9	1019.4	902.6	752.1	679.6	607.3	523.7	462.3	417.8	390.0	384.4
60°	969.4	874.6	763.3	612.8	540.3	479.1	390.0	328.7	289.8	267.3	256.2
62.5°	858.0	768.7	663.0	523.7	456.9	395.5	312.1	256.2	222.8	200.5	189.3
65°	752.1	663.0	568.2	440.0	384.4	328.7	250.7	200.5	167.1	144.8	133.7
67.5°	640.7	562.8	473.5	367.8	312.1	267.3	200.5	155.9	128.2	111.4	100.2
70°	529.1	456.9	384.4	295.3	256.2	211.6	155.9	122.5	94.8	83.6	72.5
72.5°	417.8	362.1	300.9	228.4	195.0	167.1	122.5	89.1	72.5	61.4	50.2
75°	312.1	273.0	222.8	172.7	144.8	122.5	89.1	66.8	55.7	44.6	39.1
77.5°	222.8	189.3	155.9	117.1	105.9	89.1	61.4	50.2	39.1	28.0	22.3
80°	150.5	133.7	105.9	83.6	66.8	61.4	44.6	33.4	22.3	16.8	16.8
82.5°	100.2	83.6	66.8	50.2	44.6	39.1	28.0	22.3	16.8	11.1	11.1
85°	61.4	50.2	39.1	28.0	28.0	22.3	16.8	11.1	5.7	5.7	5.7
87.5°	28.0	22.3	16.8	11.1	11.1	5.7	5.7	5.7	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	4378.8	4345.4	4323.1	4350.9	4362.0	4345.4	4362.0	4390.0	4417.9	4423.4	4345.4
5°	4384.5	4350.9	4339.7	4373.1	4378.8	4373.1	4390.0	4429.1	4462.5	4473.6	4395.6
7.5°	4384.5	4362.0	4356.6	4395.6	4401.1	4395.6	4423.4	4467.9	4501.3	4523.6	4445.7
10°	4373.1	4362.0	4367.7	4401.1	4412.2	4412.2	4451.3	4501.3	4534.8	4557.0	4479.1
12.5°	4356.6	4356.6	4356.6	4395.6	4406.8	4412.2	4445.7	4512.5	4534.8	4568.2	4490.2
15°	4328.6	4328.6	4328.6	4367.7	4384.5	4384.5	4423.4	4484.7	4512.5	4545.9	4467.9
17.5°	4278.6	4278.6	4284.0	4317.5	4334.3	4334.3	4373.1	4440.2	4456.8	4495.9	4417.9
20°	4206.1	4206.1	4211.8	4245.2	4261.8	4250.6	4300.9	4356.6	4373.1	4406.8	4328.6
22.5°	4100.2	4100.2	4100.2	4133.8	4144.9	4139.3	4189.5	4239.5	4239.5	4284.0	4200.6
25°	3944.2	3955.4	3944.2	3977.7	3988.8	3983.3	4027.9	4072.4	4061.3	4111.5	4027.9
27.5°	3754.9	3749.2	3749.2	3777.2	3777.2	3771.5	3804.9	3855.1	3844.0	3877.4	3799.5
30°	3493.1	3509.7	3481.9	3520.8	3504.2	3493.1	3515.3	3559.9	3543.1	3571.0	3509.7
32.5°	3192.1	3169.8	3169.8	3169.8	3181.0	3153.3	3175.5	3197.8	3181.0	3208.9	3142.1
35°	2796.6	2802.3	2785.5	2791.2	2796.6	2763.2	2785.5	2807.8	2785.5	2802.3	2740.9
37.5°	2401.1	2406.6	2367.7	2390.0	2367.7	2356.6	2378.9	2390.0	2367.7	2384.3	2317.5
40°	2005.6	1994.5	1988.8	1988.8	1994.5	1966.6	1983.4	2000.0	1983.4	1994.5	1933.1
42.5°	1660.2	1654.7	1643.6	1649.0	1632.2	1626.7	1632.2	1649.0	1632.2	1643.6	1598.8
45°	1359.2	1348.1	1331.5	1336.9	1336.9	1309.2	1325.8	1336.9	1320.4	1325.8	1286.9
47.5°	1080.8	1064.0	1064.0	1058.5	1058.5	1047.4	1064.0	1058.5	1041.7	1052.8	1014.0
50°	841.2	830.1	830.1	830.1	830.1	813.3	818.9	830.1	813.3	813.3	791.0
52.5°	657.3	640.7	629.6	629.6	629.6	623.9	623.9	629.6	612.8	612.8	607.3
55°	495.7	490.3	473.5	473.5	473.5	456.9	462.3	462.3	456.9	456.9	440.0
57.5°	367.8	350.9	339.8	339.8	328.7	328.7	323.2	328.7	317.5	317.5	306.4
60°	245.0	233.9	228.4	222.8	222.8	217.3	222.8	217.3	217.3	211.6	206.2
62.5°	178.2	167.1	155.9	155.9	155.9	150.5	150.5	150.5	150.5	150.5	144.8
65°	128.2	117.1	117.1	111.4	111.4	105.9	105.9	105.9	105.9	105.9	100.2
67.5°	89.1	83.6	78.0	78.0	78.0	78.0	78.0	78.0	72.5	72.5	72.5
70°	66.8	61.4	55.7	55.7	55.7	55.7	55.7	50.2	55.7	55.7	50.2
72.5°	44.6	44.6	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
75°	33.4	33.4	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
77.5°	22.3	22.3	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
80°	16.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	11.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	0.0
87.5°	0.0	0.0	0.0	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	0.0	0.0	0.0



TEST NUMBER: P859606

CATALOG NUMBER: LX4C75D010 EX4C759050 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	4429.1	4423.4	4412.2	4429.1	4384.5	4367.7	4362.0	4412.2
5°	4490.2	4479.1	4479.1	4495.9	4445.7	4434.5	4423.4	4479.1
7.5°	4545.9	4534.8	4534.8	4551.6	4507.0	4495.9	4484.7	4540.4
10°	4579.3	4579.3	4579.3	4590.4	4551.6	4540.4	4534.8	4590.4
12.5°	4596.1	4596.1	4590.4	4612.7	4562.7	4562.7	4551.6	4607.3
15°	4573.8	4573.8	4573.8	4590.4	4545.9	4534.8	4534.8	4579.3
17.5°	4518.2	4518.2	4512.5	4529.3	4479.1	4479.1	4473.6	4523.6
20°	4434.5	4434.5	4423.4	4445.7	4395.6	4378.8	4373.1	4423.4
22.5°	4300.9	4295.2	4289.7	4300.9	4256.3	4245.2	4239.5	4284.0
25°	4128.1	4122.7	4111.5	4122.7	4072.4	4055.6	4055.6	4089.0
27.5°	3883.1	3883.1	3866.3	3883.1	3827.2	3821.7	3816.0	3855.1
30°	3582.2	3559.9	3548.7	3571.0	3515.3	3515.3	3504.2	3543.1
32.5°	3208.9	3186.7	3181.0	3192.1	3142.1	3125.3	3147.6	3169.8
35°	2780.0	2785.5	2763.2	2763.2	2718.7	2724.1	2729.8	2763.2
37.5°	2367.7	2356.6	2350.9	2356.6	2323.2	2312.0	2300.9	2334.3
40°	1983.4	1955.4	1950.0	1950.0	1922.0	1916.5	1922.0	1938.8
42.5°	1621.1	1615.6	1593.3	1604.5	1576.5	1587.7	1582.2	1582.2
45°	1309.2	1314.7	1292.4	1309.2	1286.9	1270.1	1270.1	1281.3
47.5°	1036.2	1036.2	1030.6	1030.6	1014.0	1019.4	1008.3	1025.1
50°	802.1	802.1	791.0	796.7	785.5	785.5	779.9	785.5
52.5°	612.8	607.3	607.3	601.6	590.5	596.2	601.6	590.5
55°	445.7	451.2	440.0	445.7	434.6	440.0	434.6	440.0
57.5°	306.4	312.1	300.9	312.1	300.9	306.4	300.9	300.9
60°	211.6	211.6	206.2	211.6	206.2	206.2	200.5	211.6
62.5°	144.8	144.8	144.8	144.8	144.8	139.3	144.8	144.8
65°	105.9	100.2	100.2	100.2	100.2	100.2	100.2	100.2
67.5°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
70°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
72.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
75°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
77.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
80°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
82.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
85°	5.7	5.7	5.7	0.0	5.7	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)