

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: P684799

Luminaire Tested: **LX6C120D010 EX61209030 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C120D010 EX61209030 6LCSWLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

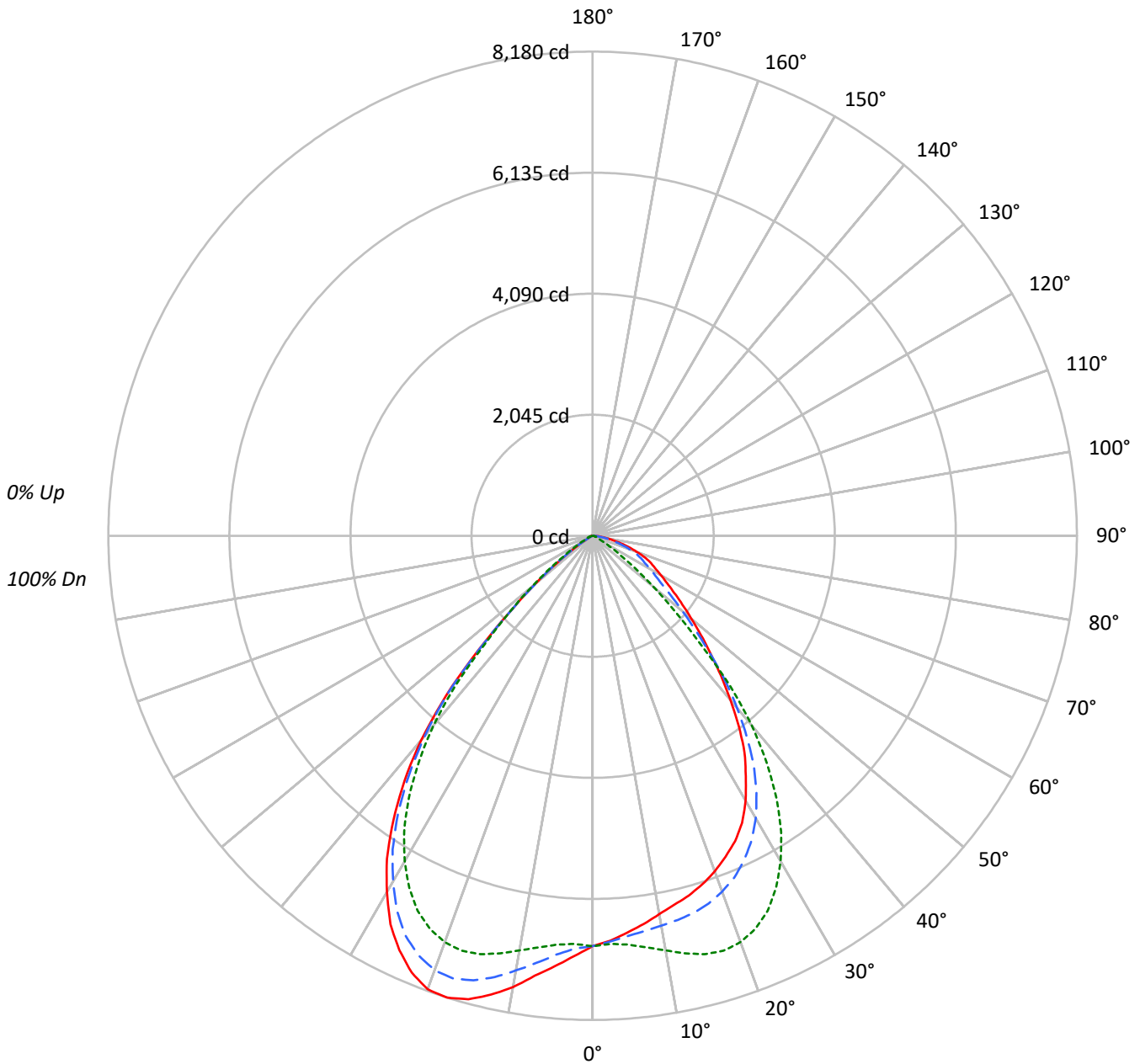
Lumens per Lamp: N/A
Luminaire Lumens: 12674.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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				20				
RC	80				70				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	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	380107	380107	380107
5°	370250	381559	401617
10°	361244	395929	430987
15°	357022	415332	460099
20°	351897	426156	475651
25°	344427	423000	467114
30°	327297	401992	439745
35°	299441	362435	392597
40°	259007	299318	322089
45°	218418	196323	210696
50°	185435	113634	106854
55°	160921	54478	41174
60°	145350	25437	10164
65°	141001	14606	3424
70°	126432	11701	3190
75°	103913	8451	1419
80°	77409	4167	0
85°	66736	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.7	5.3
10°-20°	2041.1	16.1
20°-30°	3118.6	24.6
30°-40°	3261.8	25.7
40°-50°	2115.9	16.7
50°-60°	840.1	6.6
60°-70°	398.5	3.1
70°-80°	189.5	1.5
80°-90°	38.7	0.3
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°	5829.4	46.0
0°-40°	9091.2	71.7
0°-60°	12047.3	95.1
0°-90°	12674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6934	6934	6934	6934	6934	
5°	6728	6788	6934	7106	7298	635
15°	6291	6596	7318	7776	8107	1773
25°	5694	6052	6993	7464	7722	2607
35°	4474	4746	5416	5734	5866	2767
45°	2817	2791	2532	2684	2718	2192
55°	1684	1432	570	444	431	1526
65°	1087	901	113	26	26	1062
75°	491	398	40	13	7	529
85°	106	66	0	0	0	124
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°	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7
2.5°	6847.5	6860.7	6787.9	6768.0	6821.1	6840.8	6847.5	6827.6	6834.3	6860.7	6860.7
5°	6728.2	6741.4	6675.1	6655.2	6708.2	6721.7	6741.4	6734.9	6754.8	6794.4	6787.9
7.5°	6615.5	6635.5	6562.5	6536.1	6602.3	6635.5	6648.7	6648.7	6675.1	6728.2	6734.9
10°	6489.5	6516.1	6449.9	6436.4	6509.4	6542.5	6549.3	6562.5	6602.3	6675.1	6688.3
12.5°	6383.6	6410.0	6363.7	6343.7	6423.2	6456.3	6469.5	6496.2	6542.5	6635.5	6648.7
15°	6290.7	6310.6	6257.5	6244.3	6323.8	6363.7	6370.1	6410.0	6469.5	6575.7	6595.6
17.5°	6171.3	6184.5	6144.9	6131.7	6211.2	6250.8	6257.5	6303.9	6376.9	6483.0	6516.1
20°	6032.0	6045.5	6005.6	5992.4	6071.9	6118.2	6125.0	6164.8	6250.8	6363.7	6396.8
22.5°	5866.4	5893.0	5846.7	5833.2	5913.0	5952.6	5972.5	6005.6	6091.8	6204.5	6250.8
25°	5694.2	5694.2	5661.1	5654.3	5727.3	5773.7	5767.0	5813.3	5899.5	6012.4	6052.0
27.5°	5468.7	5462.0	5428.9	5422.4	5501.9	5541.7	5528.3	5574.9	5654.3	5767.0	5806.8
30°	5170.5	5183.7	5137.4	5123.9	5190.4	5256.7	5250.0	5296.3	5375.8	5481.9	5508.6
32.5°	4812.5	4825.7	4819.2	4799.3	4858.8	4892.0	4911.9	4945.0	5011.3	5123.9	5150.6
35°	4474.4	4454.5	4428.0	4428.0	4487.6	4540.7	4520.7	4560.6	4626.9	4739.5	4746.2
37.5°	4056.8	4050.1	4036.9	4023.7	4090.0	4103.2	4109.9	4136.3	4196.1	4288.8	4275.6
40°	3619.3	3625.8	3619.3	3592.7	3632.5	3685.6	3678.9	3692.3	3745.1	3811.4	3791.7
42.5°	3208.2	3208.2	3208.2	3181.8	3228.2	3254.8	3268.0	3261.3	3274.5	3334.3	3307.6
45°	2817.3	2823.8	2817.3	2810.6	2817.3	2830.5	2817.3	2810.6	2810.6	2830.5	2790.7
47.5°	2479.2	2479.2	2459.3	2439.4	2459.3	2465.8	2446.1	2426.2	2419.4	2413.0	2346.7
50°	2174.3	2167.6	2161.1	2127.9	2147.6	2154.4	2127.9	2114.5	2088.1	2054.9	1975.5
52.5°	1909.2	1902.5	1895.7	1862.6	1876.1	1882.5	1856.1	1829.5	1796.3	1769.9	1670.5
55°	1683.7	1677.0	1677.0	1657.3	1643.9	1657.3	1630.7	1610.7	1564.4	1531.2	1431.8
57.5°	1491.4	1491.4	1478.2	1458.2	1465.0	1465.0	1438.6	1411.9	1372.0	1332.4	1252.9
60°	1325.7	1325.7	1325.7	1305.8	1305.8	1305.8	1292.6	1266.2	1233.0	1193.2	1113.7
62.5°	1193.2	1193.2	1186.4	1166.7	1173.2	1173.2	1160.0	1133.6	1100.5	1073.8	994.3
65°	1087.0	1087.0	1087.0	1067.3	1067.3	1073.8	1060.6	1034.2	1007.5	974.4	901.4
67.5°	954.5	948.0	948.0	934.5	941.3	948.0	934.5	914.9	881.7	861.8	795.5
70°	788.8	795.5	802.0	782.3	788.8	788.8	782.3	762.4	742.5	722.5	663.0
72.5°	643.0	643.0	636.3	629.8	629.8	636.3	623.1	603.2	590.0	576.8	530.2
75°	490.6	483.8	490.6	477.4	477.4	477.4	463.9	457.4	450.7	430.8	397.6
77.5°	358.0	351.3	351.3	338.1	344.8	344.8	338.1	324.9	311.4	305.0	278.3
80°	245.2	245.2	245.2	238.7	238.7	232.0	232.0	225.5	212.0	205.5	192.3
82.5°	165.7	165.7	165.7	159.2	159.2	159.2	152.5	145.7	139.3	132.5	119.3
85°	106.1	106.1	106.1	99.4	99.4	99.4	92.7	92.7	86.2	79.5	66.3
87.5°	59.5	59.5	59.5	53.1	53.1	53.1	53.1	53.1	46.3	39.9	33.1
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°	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7
2.5°	6907.0	6814.4	6873.9	6873.9	6854.2	6907.0	6940.4	6966.8	6960.1	6900.6	6893.8
5°	6854.2	6774.5	6840.8	6847.5	6827.6	6900.6	6946.9	6980.0	6986.8	6933.7	6940.4
7.5°	6814.4	6748.1	6834.3	6860.7	6854.2	6920.5	6973.6	7026.4	7053.0	7013.2	7019.9
10°	6794.4	6741.4	6834.3	6873.9	6880.6	6953.6	7033.1	7106.1	7139.2	7112.6	7132.5
12.5°	6768.0	6734.9	6840.8	6900.6	6927.0	7000.0	7099.4	7185.6	7238.7	7225.4	7265.1
15°	6741.4	6714.9	6840.8	6927.0	6960.1	7026.4	7139.2	7265.1	7324.9	7318.1	7371.2
17.5°	6675.1	6668.6	6801.2	6893.8	6940.4	7019.9	7125.8	7278.3	7338.1	7351.3	7417.5
20°	6569.2	6569.2	6714.9	6814.4	6867.4	6940.4	7073.0	7218.7	7291.7	7304.9	7377.9
22.5°	6423.2	6436.4	6575.7	6675.1	6754.8	6807.6	6946.9	7099.4	7165.7	7185.6	7265.1
25°	6231.1	6244.3	6376.9	6476.3	6562.5	6622.0	6754.8	6893.8	6973.6	6993.2	7053.0
27.5°	5979.2	6005.6	6131.7	6231.1	6303.9	6343.7	6483.0	6628.7	6688.3	6708.2	6768.0
30°	5687.5	5694.2	5820.0	5906.2	5979.2	6012.4	6131.7	6284.2	6330.5	6350.5	6436.4
32.5°	5329.5	5323.0	5442.3	5521.8	5581.3	5621.2	5747.0	5846.7	5893.0	5926.2	5972.5
35°	4898.7	4892.0	4978.2	5071.1	5117.4	5130.6	5256.7	5362.6	5389.3	5415.7	5475.5
37.5°	4414.8	4414.8	4487.6	4534.2	4587.0	4606.9	4666.7	4786.1	4832.4	4825.7	4872.0
40°	3904.3	3877.9	3930.8	3977.3	3990.6	3997.0	4056.8	4149.5	4182.6	4182.6	4215.8
42.5°	3367.4	3327.6	3334.3	3360.7	3373.9	3327.6	3367.4	3427.0	3407.1	3433.7	3440.4
45°	2797.4	2737.6	2711.2	2651.4	2664.9	2618.3	2591.9	2605.1	2598.6	2532.3	2545.5
47.5°	2333.2	2227.4	2180.8	2094.8	2074.9	2021.8	1988.7	1928.9	1876.1	1876.1	1842.7
50°	1942.3	1836.2	1743.3	1643.9	1610.7	1564.4	1491.4	1411.9	1372.0	1332.4	1299.3
52.5°	1630.7	1518.0	1405.2	1299.3	1252.9	1193.2	1093.7	1014.3	941.3	901.4	861.8
55°	1378.8	1252.9	1133.6	1020.7	961.2	901.4	802.0	709.3	623.1	570.0	536.9
57.5°	1186.4	1067.3	941.3	821.9	768.9	702.6	596.7	497.0	417.6	358.0	324.9
60°	1047.4	928.1	815.5	689.4	636.3	570.0	457.4	364.5	285.0	232.0	192.3
62.5°	928.1	821.9	702.6	590.0	536.9	470.6	364.5	271.8	198.8	145.7	112.6
65°	841.9	735.7	636.3	523.7	477.4	411.1	311.4	225.5	159.2	112.6	79.5
67.5°	742.5	649.5	550.1	457.4	411.1	358.0	265.1	192.3	132.5	92.7	66.3
70°	623.1	550.1	463.9	378.0	344.8	298.2	218.7	159.2	106.1	73.0	53.1
72.5°	497.0	437.5	371.2	305.0	278.3	232.0	178.9	126.1	79.5	53.1	39.9
75°	378.0	331.4	278.3	232.0	205.5	178.9	132.5	92.7	59.5	39.9	26.4
77.5°	258.6	238.7	198.8	159.2	145.7	126.1	86.2	59.5	39.9	26.4	13.2
80°	178.9	159.2	132.5	106.1	92.7	79.5	53.1	39.9	19.9	13.2	6.7
82.5°	112.6	92.7	79.5	66.3	59.5	46.3	33.1	19.9	13.2	6.7	6.7
85°	59.5	53.1	46.3	33.1	33.1	26.4	19.9	13.2	6.7	0.0	0.0
87.5°	33.1	26.4	19.9	13.2	13.2	6.7	6.7	6.7	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°	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7
2.5°	6973.6	6973.6	6966.8	7046.3	6953.6	7046.3	7000.0	7046.3	6980.0	6973.6	6980.0
5°	7026.4	7046.3	7053.0	7125.8	7039.8	7152.4	7112.6	7152.4	7106.1	7119.3	7139.2
7.5°	7132.5	7165.7	7159.2	7251.9	7165.7	7291.7	7265.1	7324.9	7278.3	7291.7	7318.1
10°	7251.9	7291.7	7298.2	7391.1	7311.4	7463.9	7430.7	7497.0	7457.4	7477.3	7510.5
12.5°	7391.1	7437.5	7444.2	7550.1	7463.9	7623.1	7603.2	7669.4	7636.3	7656.2	7696.1
15°	7497.0	7563.3	7576.7	7682.6	7589.9	7755.6	7742.4	7828.6	7775.6	7808.7	7841.8
17.5°	7550.1	7609.9	7636.3	7735.7	7656.2	7821.9	7808.7	7881.7	7841.8	7875.0	7914.8
20°	7516.9	7589.9	7609.9	7709.3	7629.8	7795.5	7775.6	7848.6	7808.7	7835.1	7875.0
22.5°	7397.6	7470.6	7497.0	7589.9	7516.9	7669.4	7662.9	7729.2	7676.1	7709.3	7742.4
25°	7185.6	7265.1	7278.3	7364.5	7285.0	7444.2	7430.7	7503.7	7463.9	7483.8	7530.2
27.5°	6880.6	6973.6	6993.2	7066.2	7006.7	7139.2	7139.2	7198.8	7152.4	7152.4	7198.8
30°	6516.1	6608.8	6622.0	6681.8	6628.7	6748.1	6754.8	6814.4	6741.4	6781.2	6787.9
32.5°	6071.9	6131.7	6171.3	6224.4	6144.9	6297.4	6277.5	6323.8	6284.2	6284.2	6317.3
35°	5535.0	5608.0	5627.9	5694.2	5627.9	5747.0	5747.0	5773.7	5733.8	5733.8	5786.9
37.5°	4951.8	5004.8	5011.3	5077.6	5024.5	5123.9	5117.4	5137.4	5097.5	5123.9	5123.9
40°	4268.8	4308.7	4321.9	4355.1	4348.6	4421.3	4414.8	4428.0	4408.1	4414.8	4428.0
42.5°	3473.6	3526.4	3553.1	3579.5	3539.8	3639.3	3619.3	3639.3	3632.5	3639.3	3659.2
45°	2558.7	2598.6	2618.3	2625.0	2611.8	2671.3	2717.7	2678.1	2684.5	2671.3	2698.0
47.5°	1849.4	1856.1	1842.7	1882.5	1849.4	1876.1	1889.3	1895.7	1856.1	1849.4	1876.1
50°	1266.2	1299.3	1252.9	1272.6	1266.2	1292.6	1279.4	1286.1	1246.2	1266.2	1252.9
52.5°	841.9	835.1	821.9	828.7	815.5	815.5	815.5	828.7	802.0	788.8	775.6
55°	510.5	497.0	470.6	463.9	463.9	470.6	457.4	444.2	444.2	437.5	437.5
57.5°	298.2	278.3	265.1	258.6	245.2	238.7	232.0	232.0	218.7	218.7	218.7
60°	165.7	145.7	132.5	119.3	119.3	112.6	106.1	99.4	99.4	99.4	92.7
62.5°	86.2	73.0	59.5	53.1	53.1	46.3	39.9	39.9	39.9	39.9	33.1
65°	59.5	46.3	39.9	33.1	33.1	26.4	26.4	26.4	26.4	26.4	26.4
67.5°	46.3	39.9	33.1	26.4	26.4	26.4	19.9	19.9	19.9	19.9	19.9
70°	39.9	26.4	26.4	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
72.5°	26.4	26.4	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
75°	19.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
77.5°	6.7	6.7	6.7	6.7	6.7	6.7	0.0	0.0	0.0	0.0	0.0
80°	6.7	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	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: P684799

CATALOG NUMBER: LX6C120D010 EX61209030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7	6933.7
2.5°	7039.8	7033.1	7039.8	7053.0	7026.4	7106.1	7066.2	7106.1
5°	7192.3	7198.8	7205.5	7225.4	7192.3	7291.7	7238.7	7298.2
7.5°	7391.1	7397.6	7404.3	7424.3	7404.3	7503.7	7444.2	7497.0
10°	7596.7	7609.9	7609.9	7643.0	7623.1	7715.8	7676.1	7742.4
12.5°	7788.8	7802.0	7815.4	7835.1	7821.9	7921.3	7888.2	7941.2
15°	7941.2	7967.6	7974.4	8000.8	7987.6	8093.7	8053.9	8106.9
17.5°	8014.2	8040.6	8040.6	8073.8	8060.6	8173.2	8120.1	8179.9
20°	7974.4	7994.3	8000.8	8034.2	8020.7	8133.6	8080.5	8153.3
22.5°	7848.6	7855.0	7861.8	7894.9	7888.2	7987.6	7941.2	7987.6
25°	7616.4	7636.3	7629.8	7656.2	7656.2	7735.7	7682.6	7722.5
27.5°	7285.0	7304.9	7304.9	7338.1	7311.4	7391.1	7338.1	7397.6
30°	6880.6	6900.6	6887.4	6913.8	6887.4	6966.8	6927.0	6946.9
32.5°	6396.8	6396.8	6403.3	6410.0	6396.8	6469.5	6429.9	6469.5
35°	5820.0	5833.2	5840.0	5846.7	5833.2	5886.3	5840.0	5866.4
37.5°	5170.5	5203.6	5196.9	5203.6	5183.7	5250.0	5210.1	5223.6
40°	4474.4	4474.4	4467.7	4481.1	4461.2	4514.3	4487.6	4500.8
42.5°	3665.7	3685.6	3659.2	3692.3	3639.3	3712.0	3685.6	3665.7
45°	2751.1	2724.4	2717.7	2724.4	2704.5	2711.2	2731.1	2717.7
47.5°	1876.1	1876.1	1862.6	1842.7	1869.3	1876.1	1849.4	1849.4
50°	1259.4	1259.4	1246.2	1239.5	1252.9	1246.2	1233.0	1252.9
52.5°	802.0	775.6	775.6	788.8	775.6	762.4	782.3	768.9
55°	437.5	424.3	424.3	437.5	424.3	424.3	417.6	430.8
57.5°	212.0	218.7	212.0	212.0	212.0	212.0	205.5	212.0
60°	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
62.5°	39.9	39.9	33.1	33.1	33.1	33.1	33.1	33.1
65°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
67.5°	19.9	19.9	19.9	19.9	19.9	26.4	19.9	19.9
70°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
72.5°	19.9	19.9	26.4	26.4	26.4	26.4	26.4	26.4
75°	13.2	13.2	13.2	6.7	6.7	6.7	6.7	6.7
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)