

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: P684839

Luminaire Tested: **LX6C130D010 EX61309050 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684839
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: LX6C130D010 EX61309050 6LCSWLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

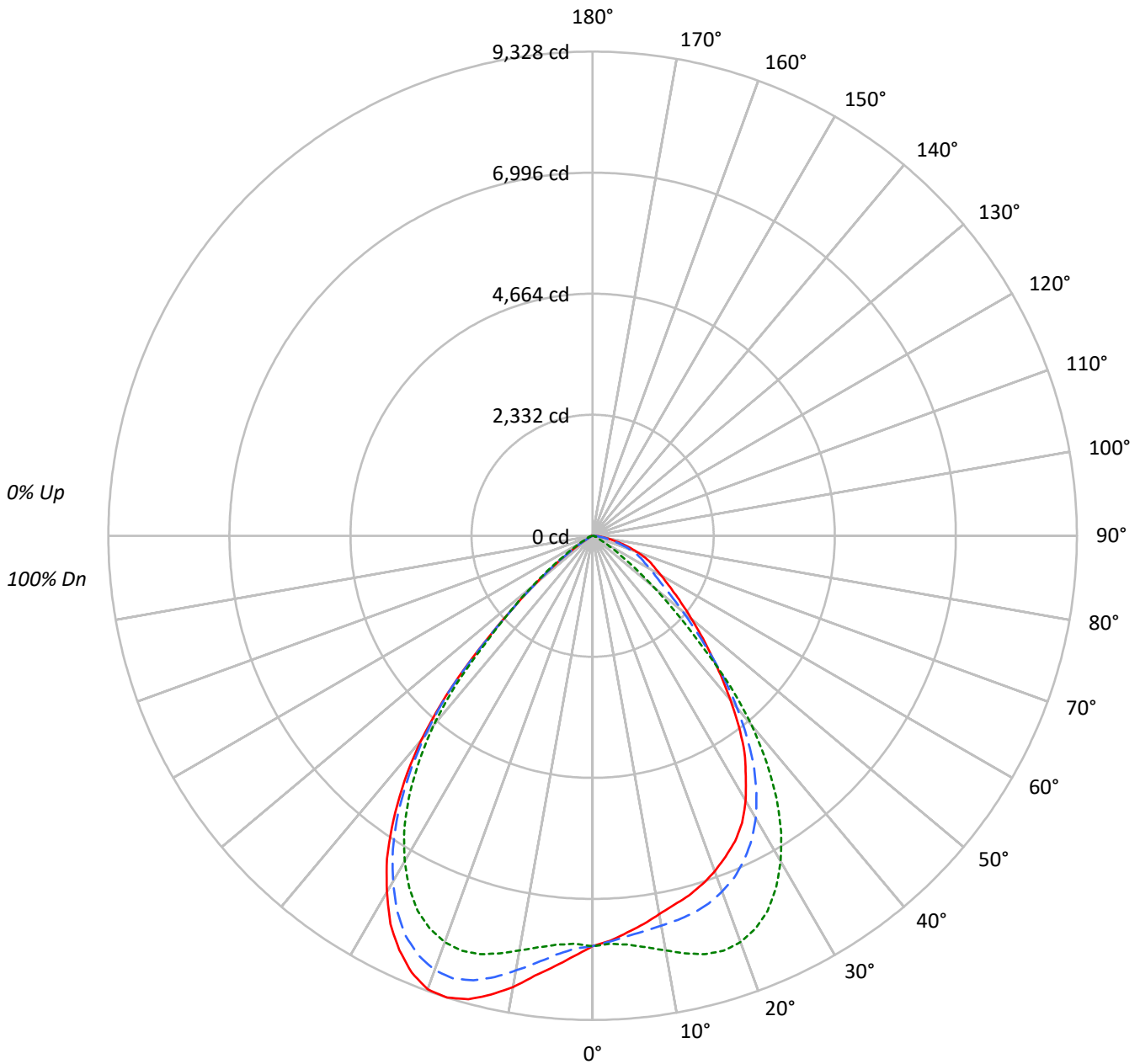
Lumens per Lamp: N/A
Luminaire Lumens: 14452.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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									
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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	433430	433430	433430
5°	422187	435086	457956
10°	411922	451472	491452
15°	407108	473601	524645
20°	401269	485941	542378
25°	392744	482344	532646
30°	373216	458381	501438
35°	341448	413277	447668
40°	295346	341311	367274
45°	249065	223868	240250
50°	211447	129574	121847
55°	183496	62124	46947
60°	165743	29000	11589
65°	160782	16655	3904
70°	144159	13336	3638
75°	118486	9637	1631
80°	88269	4767	0
85°	76108	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.7	5.3
10°-20°	2327.4	16.1
20°-30°	3556.1	24.6
30°-40°	3719.4	25.7
40°-50°	2412.8	16.7
50°-60°	958.0	6.6
60°-70°	454.4	3.1
70°-80°	216.1	1.5
80°-90°	44.1	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°	6647.2	46.0
0°-40°	10366.6	71.7
0°-60°	13737.3	95.1
0°-90°	14452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14452.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7906	7906	7906	7906	7906	
5°	7672	7740	7906	8103	8322	724
15°	7173	7521	8345	8866	9244	2021
25°	6493	6901	7974	8511	8806	2973
35°	5102	5412	6175	6538	6689	3155
45°	3213	3182	2888	3061	3099	2500
55°	1920	1633	650	506	491	1740
65°	1240	1028	128	30	30	1211
75°	559	453	46	15	8	603
85°	121	76	0	0	0	141
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°	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4
2.5°	7808.1	7823.2	7740.2	7717.5	7778.0	7800.4	7808.1	7785.4	7793.1	7823.2	7823.2
5°	7672.0	7687.1	7611.5	7588.8	7649.3	7664.6	7687.1	7679.7	7702.4	7747.6	7740.2
7.5°	7543.6	7566.3	7483.1	7453.0	7528.6	7566.3	7581.4	7581.4	7611.5	7672.0	7679.7
10°	7399.9	7430.3	7354.7	7339.4	7422.6	7460.4	7468.0	7483.1	7528.6	7611.5	7626.6
12.5°	7279.1	7309.2	7256.4	7233.7	7324.3	7362.1	7377.1	7407.5	7460.4	7566.3	7581.4
15°	7173.2	7195.9	7135.4	7120.3	7210.9	7256.4	7263.8	7309.2	7377.1	7498.2	7520.9
17.5°	7037.1	7052.1	7007.0	6991.9	7082.5	7127.7	7135.4	7188.2	7271.5	7392.5	7430.3
20°	6878.3	6893.6	6848.1	6833.1	6923.7	6976.6	6984.2	7029.7	7127.7	7256.4	7294.2
22.5°	6689.3	6719.7	6666.9	6651.6	6742.5	6787.6	6810.4	6848.1	6946.4	7074.9	7127.7
25°	6493.0	6493.0	6455.2	6447.6	6530.8	6583.7	6576.0	6628.8	6727.1	6855.8	6901.0
27.5°	6235.9	6228.2	6190.5	6183.1	6273.7	6319.2	6303.8	6356.9	6447.6	6576.0	6621.4
30°	5895.9	5910.9	5858.1	5842.7	5918.6	5994.2	5986.5	6039.3	6130.0	6251.0	6281.4
32.5°	5487.6	5502.7	5495.3	5472.6	5540.5	5578.2	5601.0	5638.7	5714.3	5842.7	5873.1
35°	5102.1	5079.4	5049.2	5049.2	5117.1	5177.7	5154.9	5200.4	5276.0	5404.4	5412.0
37.5°	4625.9	4618.3	4603.2	4588.2	4663.7	4678.8	4686.5	4716.6	4784.8	4890.4	4875.4
40°	4127.1	4134.5	4127.1	4096.7	4142.1	4202.6	4195.0	4210.3	4270.5	4346.1	4323.7
42.5°	3658.3	3658.3	3658.3	3628.2	3681.0	3711.4	3726.5	3718.8	3733.9	3802.1	3771.7
45°	3212.6	3220.0	3212.6	3204.9	3212.6	3227.6	3212.6	3204.9	3204.9	3227.6	3182.2
47.5°	2827.0	2827.0	2804.3	2781.6	2804.3	2811.7	2789.3	2766.5	2758.9	2751.5	2675.9
50°	2479.3	2471.6	2464.3	2426.5	2448.9	2456.6	2426.5	2411.1	2381.0	2343.2	2252.6
52.5°	2177.0	2169.4	2161.7	2123.9	2139.2	2146.6	2116.5	2086.1	2048.3	2018.2	1904.9
55°	1919.9	1912.3	1912.3	1889.8	1874.5	1889.8	1859.4	1836.7	1783.8	1746.1	1632.7
57.5°	1700.6	1700.6	1685.5	1662.8	1670.5	1670.5	1640.4	1610.0	1564.5	1519.3	1428.7
60°	1511.7	1511.7	1511.7	1489.0	1489.0	1489.0	1473.9	1443.8	1406.0	1360.5	1269.9
62.5°	1360.5	1360.5	1352.9	1330.4	1337.8	1337.8	1322.8	1292.6	1254.9	1224.5	1133.8
65°	1239.5	1239.5	1239.5	1217.1	1217.1	1224.5	1209.4	1179.3	1148.9	1111.1	1027.9
67.5°	1088.4	1081.0	1081.0	1065.6	1073.3	1081.0	1065.6	1043.2	1005.4	982.7	907.1
70°	899.4	907.1	914.5	892.1	899.4	899.4	892.1	869.3	846.6	823.9	756.0
72.5°	733.3	733.3	725.6	718.2	718.2	725.6	710.5	687.8	672.7	657.7	604.6
75°	559.4	551.7	559.4	544.3	544.3	544.3	529.0	521.6	513.9	491.2	453.4
77.5°	408.2	400.6	400.6	385.5	393.2	393.2	385.5	370.5	355.1	347.7	317.3
80°	279.6	279.6	279.6	272.2	272.2	264.5	264.5	257.1	241.8	234.4	219.3
82.5°	188.9	188.9	188.9	181.5	181.5	181.5	173.9	166.2	158.8	151.1	136.1
85°	121.0	121.0	121.0	113.4	113.4	113.4	105.7	105.7	98.3	90.6	75.6
87.5°	67.9	67.9	67.9	60.5	60.5	60.5	60.5	60.5	52.8	45.5	37.8
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°	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4
2.5°	7876.0	7770.3	7838.2	7838.2	7815.8	7876.0	7914.1	7944.2	7936.5	7868.6	7861.0
5°	7815.8	7724.9	7800.4	7808.1	7785.4	7868.6	7921.5	7959.2	7966.9	7906.4	7914.1
7.5°	7770.3	7694.8	7793.1	7823.2	7815.8	7891.4	7951.9	8012.1	8042.5	7997.0	8004.7
10°	7747.6	7687.1	7793.1	7838.2	7845.9	7929.1	8019.8	8103.0	8140.8	8110.4	8133.1
12.5°	7717.5	7679.7	7800.4	7868.6	7898.7	7982.0	8095.3	8193.6	8254.1	8239.1	8284.3
15°	7687.1	7657.0	7800.4	7898.7	7936.5	8012.1	8140.8	8284.3	8352.4	8344.8	8405.3
17.5°	7611.5	7604.1	7755.3	7861.0	7914.1	8004.7	8125.4	8299.3	8367.5	8382.6	8458.1
20°	7490.8	7490.8	7657.0	7770.3	7830.8	7914.1	8065.2	8231.4	8314.7	8329.7	8413.0
22.5°	7324.3	7339.4	7498.2	7611.5	7702.4	7762.7	7921.5	8095.3	8170.9	8193.6	8284.3
25°	7105.3	7120.3	7271.5	7384.8	7483.1	7551.0	7702.4	7861.0	7951.9	7974.3	8042.5
27.5°	6818.0	6848.1	6991.9	7105.3	7188.2	7233.7	7392.5	7558.7	7626.6	7649.3	7717.5
30°	6485.4	6493.0	6636.5	6734.8	6818.0	6855.8	6991.9	7165.8	7218.6	7241.3	7339.4
32.5°	6077.1	6069.7	6205.8	6296.4	6364.3	6409.8	6553.3	6666.9	6719.7	6757.5	6810.4
35°	5585.9	5578.2	5676.5	5782.5	5835.3	5850.4	5994.2	6114.9	6145.3	6175.4	6243.6
37.5°	5034.2	5034.2	5117.1	5170.3	5230.5	5253.2	5321.4	5457.5	5510.3	5502.7	5555.5
40°	4452.1	4422.0	4482.2	4535.3	4550.4	4557.8	4625.9	4731.6	4769.4	4769.4	4807.2
42.5°	3839.8	3794.4	3802.1	3832.2	3847.2	3794.4	3839.8	3907.7	3885.0	3915.4	3923.1
45°	3189.8	3121.7	3091.5	3023.4	3038.7	2985.6	2955.5	2970.5	2963.1	2887.6	2902.6
47.5°	2660.6	2539.8	2486.7	2388.7	2366.0	2305.4	2267.7	2199.5	2139.2	2139.2	2101.2
50°	2214.8	2093.8	1987.8	1874.5	1836.7	1783.8	1700.6	1610.0	1564.5	1519.3	1481.6
52.5°	1859.4	1731.0	1602.3	1481.6	1428.7	1360.5	1247.2	1156.6	1073.3	1027.9	982.7
55°	1572.2	1428.7	1292.6	1163.9	1096.0	1027.9	914.5	808.8	710.5	650.0	612.2
57.5°	1352.9	1217.1	1073.3	937.2	876.7	801.2	680.4	566.8	476.1	408.2	370.5
60°	1194.3	1058.3	929.8	786.1	725.6	650.0	521.6	415.6	325.0	264.5	219.3
62.5°	1058.3	937.2	801.2	672.7	612.2	536.7	415.6	309.9	226.7	166.2	128.4
65°	960.0	838.9	725.6	597.2	544.3	468.8	355.1	257.1	181.5	128.4	90.6
67.5°	846.6	740.6	627.3	521.6	468.8	408.2	302.3	219.3	151.1	105.7	75.6
70°	710.5	627.3	529.0	431.0	393.2	340.1	249.4	181.5	121.0	83.2	60.5
72.5°	566.8	498.9	423.3	347.7	317.3	264.5	204.0	143.8	90.6	60.5	45.5
75°	431.0	377.8	317.3	264.5	234.4	204.0	151.1	105.7	67.9	45.5	30.1
77.5°	294.9	272.2	226.7	181.5	166.2	143.8	98.3	67.9	45.5	30.1	15.1
80°	204.0	181.5	151.1	121.0	105.7	90.6	60.5	45.5	22.7	15.1	7.7
82.5°	128.4	105.7	90.6	75.6	67.9	52.8	37.8	22.7	15.1	7.7	7.7
85°	67.9	60.5	52.8	37.8	37.8	30.1	22.7	15.1	7.7	0.0	0.0
87.5°	37.8	30.1	22.7	15.1	15.1	7.7	7.7	7.7	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°	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4
2.5°	7951.9	7951.9	7944.2	8034.8	7929.1	8034.8	7982.0	8034.8	7959.2	7951.9	7959.2
5°	8012.1	8034.8	8042.5	8125.4	8027.4	8155.8	8110.4	8155.8	8103.0	8118.1	8140.8
7.5°	8133.1	8170.9	8163.5	8269.2	8170.9	8314.7	8284.3	8352.4	8299.3	8314.7	8344.8
10°	8269.2	8314.7	8322.0	8428.0	8337.1	8511.0	8473.2	8548.7	8503.6	8526.3	8564.1
12.5°	8428.0	8480.9	8488.5	8609.3	8511.0	8692.5	8669.8	8745.3	8707.6	8730.3	8775.7
15°	8548.7	8624.3	8639.7	8760.4	8654.7	8843.6	8828.6	8926.9	8866.4	8904.2	8941.9
17.5°	8609.3	8677.4	8707.6	8820.9	8730.3	8919.2	8904.2	8987.4	8941.9	8979.7	9025.2
20°	8571.5	8654.7	8677.4	8790.8	8700.2	8889.1	8866.4	8949.6	8904.2	8934.3	8979.7
22.5°	8435.4	8518.6	8548.7	8654.7	8571.5	8745.3	8738.0	8813.5	8753.0	8790.8	8828.6
25°	8193.6	8284.3	8299.3	8397.6	8307.0	8488.5	8473.2	8556.4	8511.0	8533.7	8586.5
27.5°	7845.9	7951.9	7974.3	8057.5	7989.6	8140.8	8140.8	8208.7	8155.8	8155.8	8208.7
30°	7430.3	7535.9	7551.0	7619.2	7558.7	7694.8	7702.4	7770.3	7687.1	7732.5	7740.2
32.5°	6923.7	6991.9	7037.1	7097.6	7007.0	7180.8	7158.1	7210.9	7165.8	7165.8	7203.6
35°	6311.5	6394.7	6417.5	6493.0	6417.5	6553.3	6553.3	6583.7	6538.2	6538.2	6598.7
37.5°	5646.4	5706.9	5714.3	5789.9	5729.4	5842.7	5835.3	5858.1	5812.6	5842.7	5842.7
40°	4867.7	4913.2	4928.2	4966.0	4958.6	5041.6	5034.2	5049.2	5026.5	5034.2	5049.2
42.5°	3960.9	4021.1	4051.5	4081.6	4036.4	4149.8	4127.1	4149.8	4142.1	4149.8	4172.5
45°	2917.7	2963.1	2985.6	2993.2	2978.2	3046.1	3098.9	3053.8	3061.1	3046.1	3076.5
47.5°	2108.8	2116.5	2101.2	2146.6	2108.8	2139.2	2154.3	2161.7	2116.5	2108.8	2139.2
50°	1443.8	1481.6	1428.7	1451.2	1443.8	1473.9	1458.8	1466.5	1421.1	1443.8	1428.7
52.5°	960.0	952.3	937.2	944.9	929.8	929.8	929.8	944.9	914.5	899.4	884.4
55°	582.1	566.8	536.7	529.0	529.0	536.7	521.6	506.5	506.5	498.9	498.9
57.5°	340.1	317.3	302.3	294.9	279.6	272.2	264.5	264.5	249.4	249.4	249.4
60°	188.9	166.2	151.1	136.1	136.1	128.4	121.0	113.4	113.4	113.4	105.7
62.5°	98.3	83.2	67.9	60.5	60.5	52.8	45.5	45.5	45.5	45.5	37.8
65°	67.9	52.8	45.5	37.8	37.8	30.1	30.1	30.1	30.1	30.1	30.1
67.5°	52.8	45.5	37.8	30.1	30.1	30.1	22.7	22.7	22.7	22.7	22.7
70°	45.5	30.1	30.1	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
72.5°	30.1	30.1	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
75°	22.7	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	0.0	0.0	0.0	0.0	0.0
80°	7.7	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: P684839

CATALOG NUMBER: LX6C130D010 EX61309050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4	7906.4
2.5°	8027.4	8019.8	8027.4	8042.5	8012.1	8103.0	8057.5	8103.0
5°	8201.3	8208.7	8216.4	8239.1	8201.3	8314.7	8254.1	8322.0
7.5°	8428.0	8435.4	8443.1	8465.8	8443.1	8556.4	8488.5	8548.7
10°	8662.4	8677.4	8677.4	8715.2	8692.5	8798.2	8753.0	8828.6
12.5°	8881.4	8896.5	8911.8	8934.3	8919.2	9032.6	8994.8	9055.3
15°	9055.3	9085.4	9093.1	9123.2	9108.1	9229.2	9183.7	9244.2
17.5°	9138.5	9168.6	9168.6	9206.4	9191.4	9319.8	9259.3	9327.5
20°	9093.1	9115.8	9123.2	9161.3	9145.9	9274.6	9214.1	9297.1
22.5°	8949.6	8957.0	8964.7	9002.5	8994.8	9108.1	9055.3	9108.1
25°	8684.8	8707.6	8700.2	8730.3	8730.3	8820.9	8760.4	8805.9
27.5°	8307.0	8329.7	8329.7	8367.5	8337.1	8428.0	8367.5	8435.4
30°	7845.9	7868.6	7853.6	7883.7	7853.6	7944.2	7898.7	7921.5
32.5°	7294.2	7294.2	7301.6	7309.2	7294.2	7377.1	7332.0	7377.1
35°	6636.5	6651.6	6659.2	6666.9	6651.6	6712.1	6659.2	6689.3
37.5°	5895.9	5933.6	5926.0	5933.6	5910.9	5986.5	5941.0	5956.4
40°	5102.1	5102.1	5094.4	5109.8	5087.0	5147.5	5117.1	5132.2
42.5°	4179.9	4202.6	4172.5	4210.3	4149.8	4232.8	4202.6	4179.9
45°	3137.0	3106.6	3098.9	3106.6	3083.9	3091.5	3114.3	3098.9
47.5°	2139.2	2139.2	2123.9	2101.2	2131.6	2139.2	2108.8	2108.8
50°	1436.1	1436.1	1421.1	1413.4	1428.7	1421.1	1406.0	1428.7
52.5°	914.5	884.4	884.4	899.4	884.4	869.3	892.1	876.7
55°	498.9	483.8	483.8	498.9	483.8	483.8	476.1	491.2
57.5°	241.8	249.4	241.8	241.8	241.8	241.8	234.4	241.8
60°	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
62.5°	45.5	45.5	37.8	37.8	37.8	37.8	37.8	37.8
65°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
67.5°	22.7	22.7	22.7	22.7	22.7	30.1	22.7	22.7
70°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
72.5°	22.7	22.7	30.1	30.1	30.1	30.1	30.1	30.1
75°	15.1	15.1	15.1	7.7	7.7	7.7	7.7	7.7
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)