

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: P684784

Luminaire Tested: **LX6C100D010 EX61009040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684784
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: LX6C100D010 EX61009040 6LCSWLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

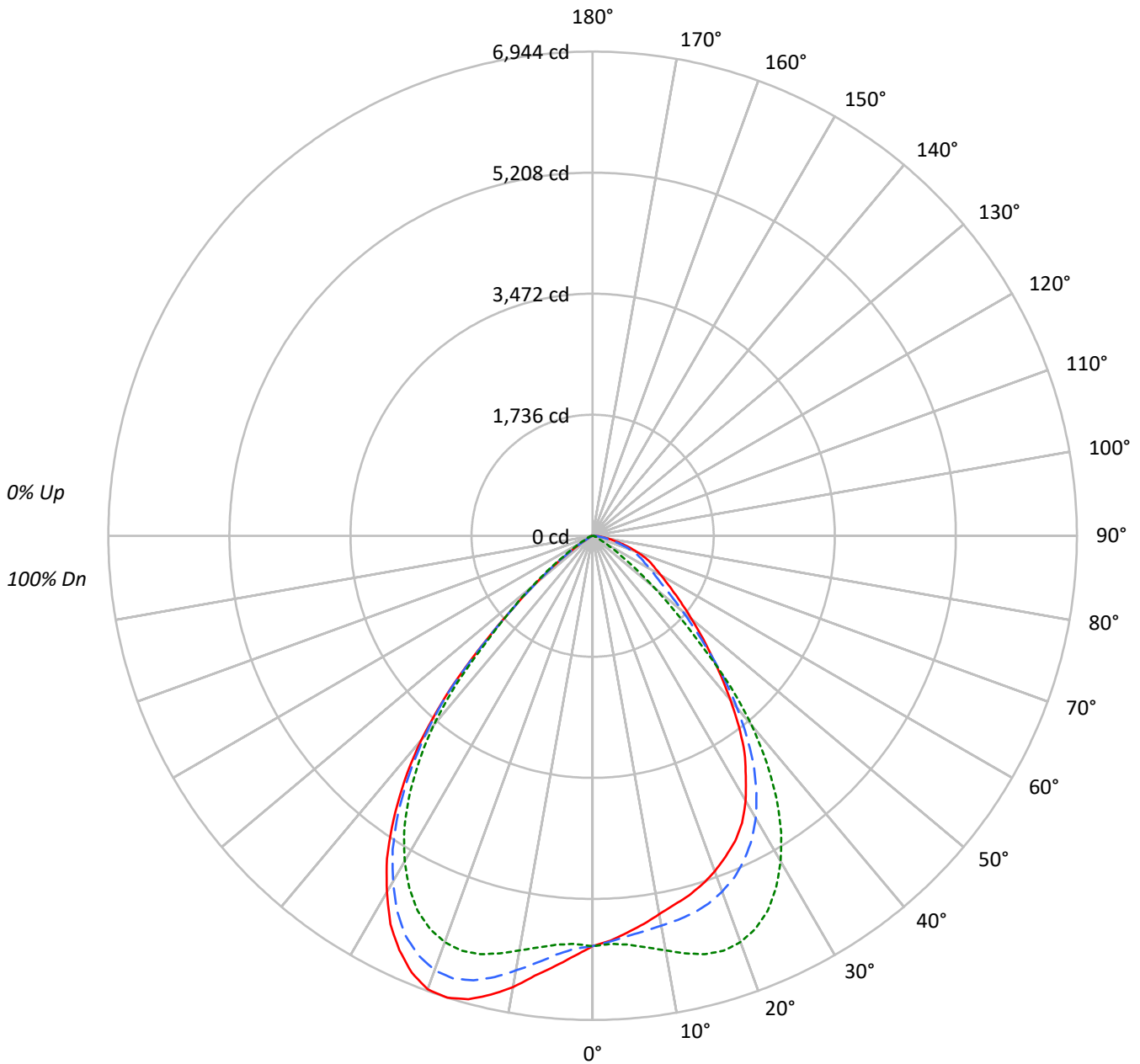
Lumens per Lamp: N/A
Luminaire Lumens: 10759.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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			
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°	322672	322672	322672
5°	314307	323904	340936
10°	306658	336105	365869
15°	303078	352579	390581
20°	298728	361768	403778
25°	292384	359089	396531
30°	277847	341249	373298
35°	254194	307672	333277
40°	219876	254097	273419
45°	185415	166661	178856
50°	157419	96466	90709
55°	136607	46249	34952
60°	123389	21588	8629
65°	119702	12401	2906
70°	107326	9938	2709
75°	88197	7159	1207
80°	65696	3536	0
85°	56672	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	5.3
10°-20°	1732.7	16.1
20°-30°	2647.4	24.6
30°-40°	2768.9	25.7
40°-50°	1796.2	16.7
50°-60°	713.2	6.6
60°-70°	338.3	3.1
70°-80°	160.9	1.5
80°-90°	32.8	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°	4948.6	46.0
0°-40°	7717.6	71.7
0°-60°	10227.0	95.1
0°-90°	10759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10759.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5886	5886	5886	5886	5886	
5°	5712	5762	5886	6032	6196	539
15°	5340	5599	6212	6601	6882	1505
25°	4834	5138	5937	6336	6556	2213
35°	3798	4029	4597	4868	4980	2349
45°	2392	2369	2150	2279	2307	1861
55°	1429	1216	484	377	366	1295
65°	923	765	96	22	22	901
75°	416	338	34	11	6	449
85°	90	56	0	0	0	105
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°	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5812.9	5824.1	5762.3	5745.4	5790.4	5807.1	5812.9	5795.9	5801.7	5824.1	5824.1
5°	5711.6	5722.8	5666.5	5649.6	5694.6	5706.1	5722.8	5717.3	5734.2	5767.8	5762.3
7.5°	5616.0	5632.9	5570.9	5548.5	5604.7	5632.9	5644.1	5644.1	5666.5	5711.6	5717.3
10°	5508.9	5531.6	5475.3	5463.9	5525.9	5554.0	5559.7	5570.9	5604.7	5666.5	5677.7
12.5°	5419.0	5441.5	5402.1	5385.2	5452.7	5480.8	5492.0	5514.6	5554.0	5632.9	5644.1
15°	5340.2	5357.1	5312.0	5300.8	5368.3	5402.1	5407.6	5441.5	5492.0	5582.1	5599.0
17.5°	5238.8	5250.1	5216.4	5205.2	5272.7	5306.3	5312.0	5351.4	5413.3	5503.4	5531.6
20°	5120.6	5132.0	5098.2	5087.0	5154.5	5193.8	5199.5	5233.4	5306.3	5402.1	5430.3
22.5°	4980.0	5002.6	4963.3	4951.8	5019.5	5053.2	5070.1	5098.2	5171.4	5267.0	5306.3
25°	4833.8	4833.8	4805.7	4800.0	4862.0	4901.3	4895.6	4934.9	5008.1	5103.9	5137.5
27.5°	4642.4	4636.7	4608.6	4603.1	4670.5	4704.4	4693.0	4732.5	4800.0	4895.6	4929.4
30°	4389.3	4400.5	4361.1	4349.7	4406.2	4462.4	4456.7	4496.1	4563.5	4653.6	4676.3
32.5°	4085.3	4096.5	4091.0	4074.1	4124.7	4152.8	4169.7	4197.8	4254.1	4349.7	4372.3
35°	3798.3	3781.4	3759.0	3759.0	3809.5	3854.6	3837.7	3871.5	3927.8	4023.4	4029.1
37.5°	3443.9	3438.1	3426.9	3415.7	3472.0	3483.2	3488.9	3511.3	3562.1	3640.8	3629.5
40°	3072.5	3078.0	3072.5	3049.8	3083.7	3128.7	3123.0	3134.4	3179.3	3235.5	3218.8
42.5°	2723.5	2723.5	2723.5	2701.1	2740.4	2763.0	2774.2	2768.5	2779.7	2830.5	2807.9
45°	2391.6	2397.1	2391.6	2385.9	2391.6	2402.8	2391.6	2385.9	2385.9	2402.8	2369.0
47.5°	2104.6	2104.6	2087.7	2070.8	2087.7	2093.2	2076.5	2059.6	2053.9	2048.4	1992.1
50°	1845.8	1840.0	1834.5	1806.4	1823.1	1828.8	1806.4	1795.0	1772.6	1744.5	1677.0
52.5°	1620.7	1615.0	1609.3	1581.2	1592.6	1598.1	1575.7	1553.0	1524.9	1502.5	1418.1
55°	1429.3	1423.6	1423.6	1406.9	1395.5	1406.9	1384.3	1367.3	1328.0	1299.9	1215.5
57.5°	1266.0	1266.0	1254.8	1237.9	1243.6	1243.6	1221.2	1198.6	1164.7	1131.1	1063.6
60°	1125.4	1125.4	1125.4	1108.5	1108.5	1108.5	1097.3	1074.8	1046.7	1012.9	945.4
62.5°	1012.9	1012.9	1007.2	990.5	996.0	996.0	984.7	962.3	934.2	911.6	844.1
65°	922.8	922.8	922.8	906.1	906.1	911.6	900.4	877.9	855.3	827.2	765.2
67.5°	810.3	804.8	804.8	793.3	799.0	804.8	793.3	776.6	748.5	731.6	675.3
70°	669.6	675.3	680.8	664.1	669.6	669.6	664.1	647.2	630.3	613.3	562.8
72.5°	545.9	545.9	540.2	534.7	534.7	540.2	529.0	512.0	500.8	489.6	450.1
75°	416.4	410.7	416.4	405.2	405.2	405.2	393.8	388.3	382.6	365.7	337.6
77.5°	303.9	298.2	298.2	287.0	292.7	292.7	287.0	275.8	264.4	258.9	236.2
80°	208.1	208.1	208.1	202.6	202.6	196.9	196.9	191.4	180.0	174.5	163.3
82.5°	140.6	140.6	140.6	135.1	135.1	135.1	129.4	123.7	118.2	112.5	101.3
85°	90.1	90.1	90.1	84.4	84.4	84.4	78.7	78.7	73.2	67.5	56.3
87.5°	50.5	50.5	50.5	45.0	45.0	45.0	45.0	45.0	39.3	33.8	28.1
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°	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5863.4	5784.7	5835.3	5835.3	5818.6	5863.4	5891.7	5914.2	5908.5	5857.9	5852.2
5°	5818.6	5750.9	5807.1	5812.9	5795.9	5857.9	5897.2	5925.4	5931.1	5886.0	5891.7
7.5°	5784.7	5728.5	5801.7	5824.1	5818.6	5874.8	5919.9	5964.7	5987.3	5953.5	5959.2
10°	5767.8	5722.8	5801.7	5835.3	5841.0	5903.0	5970.4	6032.4	6060.5	6037.9	6054.8
12.5°	5745.4	5717.3	5807.1	5857.9	5880.3	5942.3	6026.7	6099.9	6144.9	6133.7	6167.3
15°	5722.8	5700.3	5807.1	5880.3	5908.5	5964.7	6060.5	6167.3	6218.1	6212.4	6257.4
17.5°	5666.5	5661.0	5773.5	5852.2	5891.7	5959.2	6049.1	6178.5	6229.3	6240.5	6296.8
20°	5576.6	5576.6	5700.3	5784.7	5829.8	5891.7	6004.3	6128.0	6190.0	6201.2	6263.1
22.5°	5452.7	5463.9	5582.1	5666.5	5734.2	5779.0	5897.2	6026.7	6082.9	6099.9	6167.3
25°	5289.6	5300.8	5413.3	5497.7	5570.9	5621.5	5734.2	5852.2	5919.9	5936.6	5987.3
27.5°	5075.8	5098.2	5205.2	5289.6	5351.4	5385.2	5503.4	5627.2	5677.7	5694.6	5745.4
30°	4828.1	4833.8	4940.6	5013.8	5075.8	5103.9	5205.2	5334.7	5374.0	5390.9	5463.9
32.5°	4524.2	4518.7	4620.0	4687.5	4738.0	4771.9	4878.7	4963.3	5002.6	5030.7	5070.1
35°	4158.5	4152.8	4226.0	4304.9	4344.2	4355.4	4462.4	4552.3	4575.0	4597.4	4648.1
37.5°	3747.8	3747.8	3809.5	3849.1	3893.9	3910.8	3961.6	4062.9	4102.2	4096.5	4135.9
40°	3314.4	3292.0	3336.8	3376.4	3387.6	3393.1	3443.9	3522.5	3550.7	3550.7	3578.8
42.5°	2858.6	2824.8	2830.5	2852.9	2864.1	2824.8	2858.6	2909.2	2892.3	2914.9	2920.6
45°	2374.7	2324.0	2301.5	2250.8	2262.2	2222.7	2200.2	2211.4	2205.9	2149.7	2160.9
47.5°	1980.7	1890.8	1851.3	1778.3	1761.4	1716.3	1688.2	1637.4	1592.6	1592.6	1564.3
50°	1648.9	1558.8	1479.9	1395.5	1367.3	1328.0	1266.0	1198.6	1164.7	1131.1	1103.0
52.5°	1384.3	1288.7	1192.9	1103.0	1063.6	1012.9	928.5	861.0	799.0	765.2	731.6
55°	1170.4	1063.6	962.3	866.5	816.0	765.2	680.8	602.1	529.0	483.9	455.8
57.5°	1007.2	906.1	799.0	697.7	652.7	596.4	506.5	421.9	354.5	303.9	275.8
60°	889.1	787.8	692.2	585.2	540.2	483.9	388.3	309.4	242.0	196.9	163.3
62.5°	787.8	697.7	596.4	500.8	455.8	399.5	309.4	230.7	168.8	123.7	95.6
65°	714.7	624.6	540.2	444.6	405.2	349.0	264.4	191.4	135.1	95.6	67.5
67.5°	630.3	551.4	467.0	388.3	349.0	303.9	225.0	163.3	112.5	78.7	56.3
70°	529.0	467.0	393.8	320.8	292.7	253.2	185.7	135.1	90.1	62.0	45.0
72.5°	421.9	371.4	315.1	258.9	236.2	196.9	151.9	107.0	67.5	45.0	33.8
75°	320.8	281.3	236.2	196.9	174.5	151.9	112.5	78.7	50.5	33.8	22.4
77.5°	219.5	202.6	168.8	135.1	123.7	107.0	73.2	50.5	33.8	22.4	11.2
80°	151.9	135.1	112.5	90.1	78.7	67.5	45.0	33.8	16.9	11.2	5.7
82.5°	95.6	78.7	67.5	56.3	50.5	39.3	28.1	16.9	11.2	5.7	5.7
85°	50.5	45.0	39.3	28.1	28.1	22.4	16.9	11.2	5.7	0.0	0.0
87.5°	28.1	22.4	16.9	11.2	11.2	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°	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5919.9	5919.9	5914.2	5981.6	5903.0	5981.6	5942.3	5981.6	5925.4	5919.9	5925.4
5°	5964.7	5981.6	5987.3	6049.1	5976.1	6071.7	6037.9	6071.7	6032.4	6043.6	6060.5
7.5°	6054.8	6082.9	6077.4	6156.1	6082.9	6190.0	6167.3	6218.1	6178.5	6190.0	6212.4
10°	6156.1	6190.0	6195.5	6274.4	6206.7	6336.1	6308.0	6364.2	6330.6	6347.5	6375.7
12.5°	6274.4	6313.7	6319.4	6409.3	6336.1	6471.3	6454.3	6510.6	6482.5	6499.4	6533.2
15°	6364.2	6420.5	6431.9	6521.8	6443.1	6583.8	6572.6	6645.7	6600.7	6628.8	6657.0
17.5°	6409.3	6460.0	6482.5	6566.9	6499.4	6640.0	6628.8	6690.8	6657.0	6685.1	6718.9
20°	6381.2	6443.1	6460.0	6544.4	6477.0	6617.6	6600.7	6662.7	6628.8	6651.2	6685.1
22.5°	6279.9	6341.8	6364.2	6443.1	6381.2	6510.6	6505.1	6561.4	6516.3	6544.4	6572.6
25°	6099.9	6167.3	6178.5	6251.7	6184.3	6319.4	6308.0	6370.0	6336.1	6353.0	6392.4
27.5°	5841.0	5919.9	5936.6	5998.6	5948.0	6060.5	6060.5	6111.1	6071.7	6071.7	6111.1
30°	5531.6	5610.2	5621.5	5672.2	5627.2	5728.5	5734.2	5784.7	5722.8	5756.6	5762.3
32.5°	5154.5	5205.2	5238.8	5283.9	5216.4	5345.9	5328.9	5368.3	5334.7	5334.7	5362.8
35°	4698.7	4760.6	4777.6	4833.8	4777.6	4878.7	4878.7	4901.3	4867.5	4867.5	4912.5
37.5°	4203.6	4248.6	4254.1	4310.4	4265.3	4349.7	4344.2	4361.1	4327.3	4349.7	4349.7
40°	3623.8	3657.7	3668.9	3697.0	3691.5	3753.3	3747.8	3759.0	3742.1	3747.8	3759.0
42.5°	2948.7	2993.6	3016.2	3038.6	3005.0	3089.4	3072.5	3089.4	3083.7	3089.4	3106.3
45°	2172.1	2205.9	2222.7	2228.4	2217.2	2267.7	2307.0	2273.4	2278.9	2267.7	2290.3
47.5°	1570.0	1575.7	1564.3	1598.1	1570.0	1592.6	1603.8	1609.3	1575.7	1570.0	1592.6
50°	1074.8	1103.0	1063.6	1080.3	1074.8	1097.3	1086.1	1091.8	1057.9	1074.8	1063.6
52.5°	714.7	708.9	697.7	703.4	692.2	692.2	692.2	703.4	680.8	669.6	658.4
55°	433.4	421.9	399.5	393.8	393.8	399.5	388.3	377.1	377.1	371.4	371.4
57.5°	253.2	236.2	225.0	219.5	208.1	202.6	196.9	196.9	185.7	185.7	185.7
60°	140.6	123.7	112.5	101.3	101.3	95.6	90.1	84.4	84.4	84.4	78.7
62.5°	73.2	62.0	50.5	45.0	45.0	39.3	33.8	33.8	33.8	33.8	28.1
65°	50.5	39.3	33.8	28.1	28.1	22.4	22.4	22.4	22.4	22.4	22.4
67.5°	39.3	33.8	28.1	22.4	22.4	22.4	16.9	16.9	16.9	16.9	16.9
70°	33.8	22.4	22.4	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
72.5°	22.4	22.4	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
75°	16.9	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0
80°	5.7	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: P684784

CATALOG NUMBER: LX6C100D010 EX61009040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5976.1	5970.4	5976.1	5987.3	5964.7	6032.4	5998.6	6032.4
5°	6105.6	6111.1	6116.8	6133.7	6105.6	6190.0	6144.9	6195.5
7.5°	6274.4	6279.9	6285.6	6302.5	6285.6	6370.0	6319.4	6364.2
10°	6448.8	6460.0	6460.0	6488.2	6471.3	6549.9	6516.3	6572.6
12.5°	6611.9	6623.1	6634.5	6651.2	6640.0	6724.4	6696.3	6741.3
15°	6741.3	6763.8	6769.5	6791.9	6780.7	6870.8	6836.9	6882.0
17.5°	6803.3	6825.7	6825.7	6853.9	6842.7	6938.3	6893.2	6944.0
20°	6769.5	6786.4	6791.9	6820.2	6808.8	6904.6	6859.6	6921.3
22.5°	6662.7	6668.2	6673.9	6702.0	6696.3	6780.7	6741.3	6780.7
25°	6465.5	6482.5	6477.0	6499.4	6499.4	6566.9	6521.8	6555.6
27.5°	6184.3	6201.2	6201.2	6229.3	6206.7	6274.4	6229.3	6279.9
30°	5841.0	5857.9	5846.7	5869.1	5846.7	5914.2	5880.3	5897.2
32.5°	5430.3	5430.3	5435.8	5441.5	5430.3	5492.0	5458.4	5492.0
35°	4940.6	4951.8	4957.6	4963.3	4951.8	4996.9	4957.6	4980.0
37.5°	4389.3	4417.4	4411.7	4417.4	4400.5	4456.7	4422.9	4434.3
40°	3798.3	3798.3	3792.6	3804.0	3787.1	3832.2	3809.5	3820.7
42.5°	3111.8	3128.7	3106.3	3134.4	3089.4	3151.1	3128.7	3111.8
45°	2335.4	2312.8	2307.0	2312.8	2295.8	2301.5	2318.5	2307.0
47.5°	1592.6	1592.6	1581.2	1564.3	1586.9	1592.6	1570.0	1570.0
50°	1069.1	1069.1	1057.9	1052.2	1063.6	1057.9	1046.7	1063.6
52.5°	680.8	658.4	658.4	669.6	658.4	647.2	664.1	652.7
55°	371.4	360.2	360.2	371.4	360.2	360.2	354.5	365.7
57.5°	180.0	185.7	180.0	180.0	180.0	180.0	174.5	180.0
60°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
62.5°	33.8	33.8	28.1	28.1	28.1	28.1	28.1	28.1
65°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
67.5°	16.9	16.9	16.9	16.9	16.9	22.4	16.9	16.9
70°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
72.5°	16.9	16.9	22.4	22.4	22.4	22.4	22.4	22.4
75°	11.2	11.2	11.2	5.7	5.7	5.7	5.7	5.7
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)