

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: P684789

Luminaire Tested: **LX6C100D010 EX61009050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684789
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 EX61009050 6LCSWLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

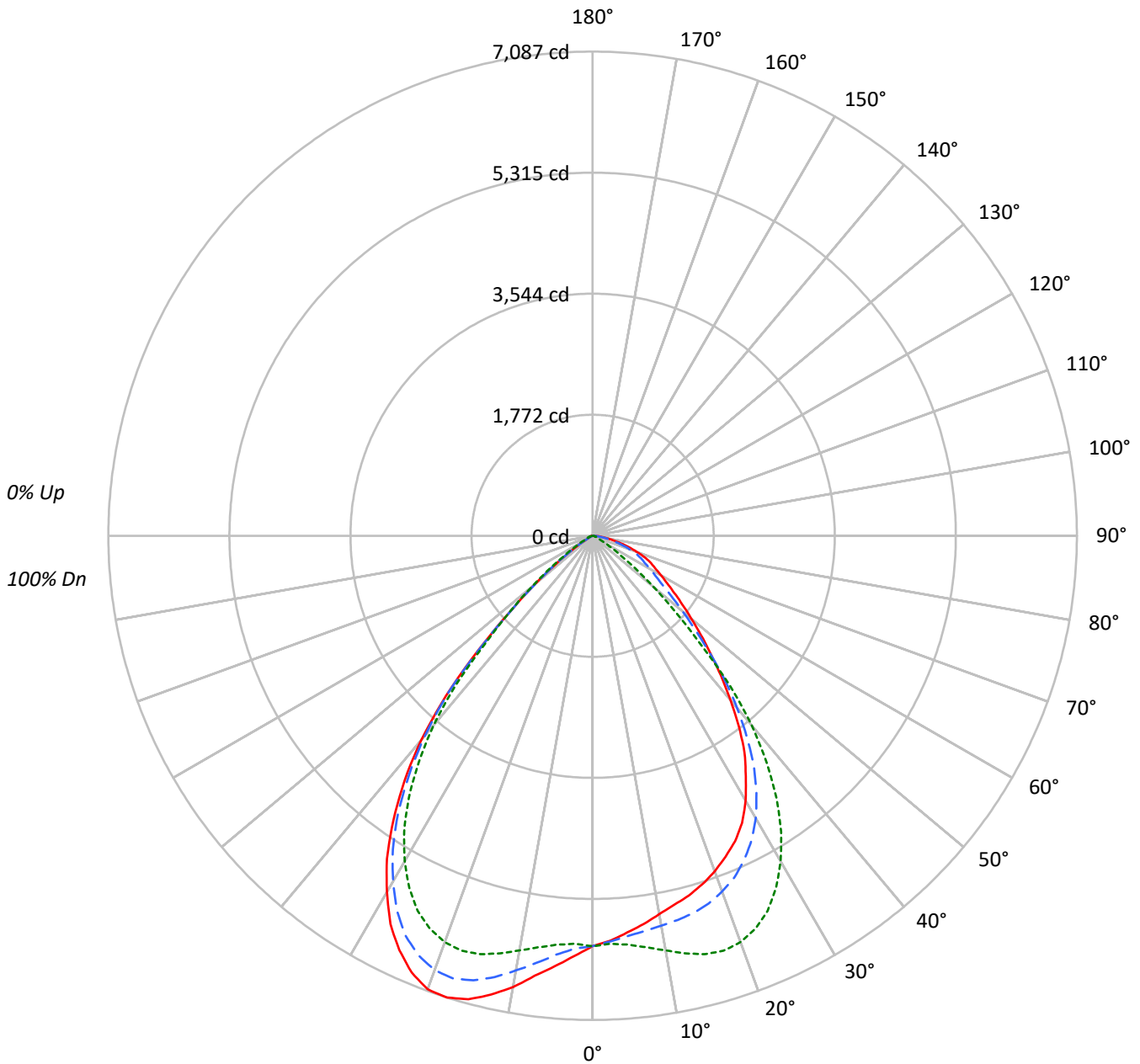
Lumens per Lamp: N/A
Luminaire Lumens: 10980.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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°	329299	329299	329299
5°	320762	330557	347935
10°	312959	343007	373384
15°	309304	359820	398606
20°	304865	369200	412073
25°	298390	366463	404679
30°	283550	348262	380970
35°	259414	313990	340123
40°	224392	259314	279037
45°	189229	170080	182531
50°	160651	98445	92577
55°	139417	47205	35669
60°	125922	22038	8804
65°	122153	12660	2970
70°	109538	10130	2773
75°	90019	7307	1228
80°	67054	3599	0
85°	57804	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.2	5.3
10°-20°	1768.3	16.1
20°-30°	2701.8	24.6
30°-40°	2825.8	25.7
40°-50°	1833.1	16.7
50°-60°	727.8	6.6
60°-70°	345.3	3.1
70°-80°	164.2	1.5
80°-90°	33.5	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°	5050.3	46.0
0°-40°	7876.1	71.7
0°-60°	10437.0	95.1
0°-90°	10980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10980.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6007	6007	6007	6007	6007	
5°	5829	5881	6007	6156	6323	550
15°	5450	5714	6340	6736	7023	1536
25°	4933	5243	6058	6466	6690	2259
35°	3876	4112	4692	4967	5082	2397
45°	2441	2418	2194	2326	2354	1899
55°	1459	1240	494	385	373	1322
65°	942	781	98	23	23	920
75°	425	344	34	11	6	458
85°	92	57	0	0	0	107
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°	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9
2.5°	5932.3	5943.7	5880.7	5863.4	5909.4	5926.4	5932.3	5915.0	5920.8	5943.7	5943.7
5°	5828.9	5840.3	5782.9	5765.6	5811.6	5823.3	5840.3	5834.7	5852.0	5886.3	5880.7
7.5°	5731.3	5748.6	5685.3	5662.5	5719.9	5748.6	5760.0	5760.0	5782.9	5828.9	5834.7
10°	5622.1	5645.2	5587.8	5576.1	5639.4	5668.1	5673.9	5685.3	5719.9	5782.9	5794.3
12.5°	5530.4	5553.2	5513.1	5495.8	5564.7	5593.4	5604.8	5627.9	5668.1	5748.6	5760.0
15°	5449.9	5467.1	5421.1	5409.7	5478.6	5513.1	5518.7	5553.2	5604.8	5696.8	5714.0
17.5°	5346.5	5357.9	5323.6	5312.1	5381.0	5415.3	5421.1	5461.3	5524.5	5616.5	5645.2
20°	5225.8	5237.5	5202.9	5191.5	5260.3	5300.5	5306.3	5340.8	5415.3	5513.1	5541.8
22.5°	5082.3	5105.4	5065.2	5053.6	5122.6	5156.9	5174.2	5202.9	5277.6	5375.2	5415.3
25°	4933.1	4933.1	4904.4	4898.6	4961.8	5002.0	4996.1	5036.3	5111.0	5208.8	5243.1
27.5°	4737.8	4732.0	4703.2	4697.6	4766.5	4801.0	4789.4	4829.7	4898.6	4996.1	5030.7
30°	4479.4	4490.9	4450.7	4439.1	4496.7	4554.1	4548.3	4588.4	4657.3	4749.2	4772.3
32.5°	4169.2	4180.7	4175.1	4157.8	4209.4	4238.1	4255.4	4284.1	4341.5	4439.1	4462.1
35°	3876.3	3859.1	3836.2	3836.2	3887.8	3933.8	3916.5	3951.0	4008.4	4106.0	4111.8
37.5°	3514.6	3508.8	3497.3	3485.9	3543.3	3554.7	3560.6	3583.4	3635.2	3715.5	3704.1
40°	3135.6	3141.2	3135.6	3112.5	3147.0	3193.0	3187.2	3198.8	3244.6	3302.0	3284.9
42.5°	2779.4	2779.4	2779.4	2756.5	2796.7	2819.8	2831.2	2825.4	2836.8	2888.6	2865.5
45°	2440.8	2446.4	2440.8	2434.9	2440.8	2452.2	2440.8	2434.9	2434.9	2452.2	2417.7
47.5°	2147.9	2147.9	2130.6	2113.3	2130.6	2136.2	2119.2	2101.9	2096.1	2090.5	2033.0
50°	1883.7	1877.8	1872.2	1843.5	1860.6	1866.4	1843.5	1831.9	1809.0	1780.3	1711.4
52.5°	1654.0	1648.2	1642.4	1613.7	1625.3	1630.9	1608.0	1584.9	1556.2	1533.4	1447.2
55°	1458.7	1452.8	1452.8	1435.8	1424.1	1435.8	1412.7	1395.4	1355.3	1326.6	1240.5
57.5°	1292.0	1292.0	1280.6	1263.3	1269.2	1269.2	1246.3	1223.2	1188.7	1154.3	1085.5
60°	1148.5	1148.5	1148.5	1131.2	1131.2	1131.2	1119.8	1096.9	1068.2	1033.7	964.8
62.5°	1033.7	1033.7	1027.9	1010.8	1016.4	1016.4	1005.0	982.1	953.4	930.3	861.4
65°	941.7	941.7	941.7	924.7	924.7	930.3	918.8	896.0	872.9	844.2	780.9
67.5°	826.9	821.3	821.3	809.6	815.5	821.3	809.6	792.6	763.9	746.6	689.2
70°	683.4	689.2	694.8	677.8	683.4	683.4	677.8	660.5	643.2	625.9	574.4
72.5°	557.1	557.1	551.3	545.7	545.7	551.3	539.8	522.6	511.1	499.7	459.3
75°	425.0	419.2	425.0	413.6	413.6	413.6	401.9	396.3	390.5	373.2	344.5
77.5°	310.2	304.3	304.3	292.9	298.7	298.7	292.9	281.5	269.8	264.2	241.1
80°	212.4	212.4	212.4	206.8	206.8	201.0	201.0	195.3	183.7	178.1	166.6
82.5°	143.5	143.5	143.5	137.9	137.9	137.9	132.1	126.3	120.7	114.8	103.4
85°	91.9	91.9	91.9	86.1	86.1	86.1	80.3	80.3	74.7	68.9	57.4
87.5°	51.6	51.6	51.6	46.0	46.0	46.0	46.0	46.0	40.1	34.5	28.7
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°	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9
2.5°	5983.8	5903.6	5955.1	5955.1	5938.1	5983.8	6012.8	6035.7	6029.8	5978.2	5972.4
5°	5938.1	5869.0	5926.4	5932.3	5915.0	5978.2	6018.4	6047.1	6052.9	6006.9	6012.8
7.5°	5903.6	5846.1	5920.8	5943.7	5938.1	5995.5	6041.5	6087.2	6110.3	6075.8	6081.6
10°	5886.3	5840.3	5920.8	5955.1	5961.0	6024.2	6093.1	6156.3	6185.0	6161.9	6179.2
12.5°	5863.4	5834.7	5926.4	5978.2	6001.1	6064.4	6150.5	6225.2	6271.1	6259.7	6294.0
15°	5840.3	5817.4	5926.4	6001.1	6029.8	6087.2	6185.0	6294.0	6345.8	6340.0	6386.0
17.5°	5782.9	5777.3	5892.1	5972.4	6012.8	6081.6	6173.4	6305.5	6357.3	6368.7	6426.1
20°	5691.2	5691.2	5817.4	5903.6	5949.5	6012.8	6127.6	6253.9	6317.1	6328.6	6391.8
22.5°	5564.7	5576.1	5696.8	5782.9	5852.0	5897.7	6018.4	6150.5	6207.9	6225.2	6294.0
25°	5398.3	5409.7	5524.5	5610.7	5685.3	5736.9	5852.0	5972.4	6041.5	6058.5	6110.3
27.5°	5180.0	5202.9	5312.1	5398.3	5461.3	5495.8	5616.5	5742.8	5794.3	5811.6	5863.4
30°	4927.3	4933.1	5042.1	5116.8	5180.0	5208.8	5312.1	5444.2	5484.4	5501.7	5576.1
32.5°	4617.1	4611.5	4714.9	4783.8	4835.3	4869.9	4978.9	5065.2	5105.4	5134.1	5174.2
35°	4243.9	4238.1	4312.8	4393.3	4433.4	4444.9	4554.1	4645.8	4668.9	4691.8	4743.6
37.5°	3824.8	3824.8	3887.8	3928.1	3973.9	3991.2	4043.0	4146.4	4186.5	4180.7	4220.8
40°	3382.5	3359.6	3405.4	3445.7	3457.2	3462.8	3514.6	3594.9	3623.6	3623.6	3652.3
42.5°	2917.4	2882.8	2888.6	2911.5	2923.0	2882.8	2917.4	2968.9	2951.7	2974.8	2980.6
45°	2423.5	2371.7	2348.8	2297.0	2308.7	2268.3	2245.4	2256.9	2251.3	2193.8	2205.3
47.5°	2021.4	1929.6	1889.3	1814.8	1797.6	1751.6	1722.9	1671.1	1625.3	1625.3	1596.4
50°	1682.7	1590.8	1510.3	1424.1	1395.4	1355.3	1292.0	1223.2	1188.7	1154.3	1125.6
52.5°	1412.7	1315.1	1217.4	1125.6	1085.5	1033.7	947.6	878.7	815.5	780.9	746.6
55°	1194.5	1085.5	982.1	884.3	832.7	780.9	694.8	614.5	539.8	493.9	465.1
57.5°	1027.9	924.7	815.5	712.1	666.1	608.7	516.9	430.6	361.8	310.2	281.5
60°	907.4	804.0	706.5	597.2	551.3	493.9	396.3	315.8	246.9	201.0	166.6
62.5°	804.0	712.1	608.7	511.1	465.1	407.7	315.8	235.5	172.2	126.3	97.6
65°	729.3	637.4	551.3	453.7	413.6	356.1	269.8	195.3	137.9	97.6	68.9
67.5°	643.2	562.7	476.6	396.3	356.1	310.2	229.7	166.6	114.8	80.3	57.4
70°	539.8	476.6	401.9	327.4	298.7	258.4	189.5	137.9	91.9	63.2	46.0
72.5°	430.6	379.0	321.6	264.2	241.1	201.0	155.0	109.2	68.9	46.0	34.5
75°	327.4	287.1	241.1	201.0	178.1	155.0	114.8	80.3	51.6	34.5	22.9
77.5°	224.0	206.8	172.2	137.9	126.3	109.2	74.7	51.6	34.5	22.9	11.4
80°	155.0	137.9	114.8	91.9	80.3	68.9	46.0	34.5	17.3	11.4	5.8
82.5°	97.6	80.3	68.9	57.4	51.6	40.1	28.7	17.3	11.4	5.8	5.8
85°	51.6	46.0	40.1	28.7	28.7	22.9	17.3	11.4	5.8	0.0	0.0
87.5°	28.7	22.9	17.3	11.4	11.4	5.8	5.8	5.8	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°	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9
2.5°	6041.5	6041.5	6035.7	6104.5	6024.2	6104.5	6064.4	6104.5	6047.1	6041.5	6047.1
5°	6087.2	6104.5	6110.3	6173.4	6098.9	6196.5	6161.9	6196.5	6156.3	6167.7	6185.0
7.5°	6179.2	6207.9	6202.3	6282.6	6207.9	6317.1	6294.0	6345.8	6305.5	6317.1	6340.0
10°	6282.6	6317.1	6322.7	6403.2	6334.2	6466.3	6437.6	6495.0	6460.6	6477.9	6506.6
12.5°	6403.2	6443.4	6449.2	6540.9	6466.3	6604.2	6586.9	6644.3	6615.6	6632.9	6667.4
15°	6495.0	6552.4	6564.0	6655.8	6575.5	6719.0	6707.6	6782.3	6736.3	6765.0	6793.7
17.5°	6540.9	6592.7	6615.6	6701.7	6632.9	6776.4	6765.0	6828.2	6793.7	6822.4	6856.9
20°	6512.2	6575.5	6592.7	6678.9	6610.0	6753.5	6736.3	6799.5	6765.0	6787.9	6822.4
22.5°	6408.8	6472.1	6495.0	6575.5	6512.2	6644.3	6638.7	6696.1	6650.2	6678.9	6707.6
25°	6225.2	6294.0	6305.5	6380.1	6311.3	6449.2	6437.6	6500.8	6466.3	6483.5	6523.7
27.5°	5961.0	6041.5	6058.5	6121.8	6070.2	6185.0	6185.0	6236.6	6196.5	6196.5	6236.6
30°	5645.2	5725.5	5736.9	5788.7	5742.8	5846.1	5852.0	5903.6	5840.3	5874.8	5880.7
32.5°	5260.3	5312.1	5346.5	5392.4	5323.6	5455.7	5438.4	5478.6	5444.2	5444.2	5472.9
35°	4795.2	4858.4	4875.7	4933.1	4875.7	4978.9	4978.9	5002.0	4967.4	4967.4	5013.4
37.5°	4289.9	4335.9	4341.5	4398.9	4352.9	4439.1	4433.4	4450.7	4416.2	4439.1	4439.1
40°	3698.3	3732.8	3744.2	3773.0	3767.3	3830.4	3824.8	3836.2	3818.9	3824.8	3836.2
42.5°	3009.3	3055.1	3078.2	3101.0	3066.7	3152.8	3135.6	3152.8	3147.0	3152.8	3170.1
45°	2216.7	2251.3	2268.3	2274.1	2262.7	2314.3	2354.4	2320.1	2325.7	2314.3	2337.4
47.5°	1602.2	1608.0	1596.4	1630.9	1602.2	1625.3	1636.7	1642.4	1608.0	1602.2	1625.3
50°	1096.9	1125.6	1085.5	1102.5	1096.9	1119.8	1108.4	1114.2	1079.7	1096.9	1085.5
52.5°	729.3	723.5	712.1	717.9	706.5	706.5	706.5	717.9	694.8	683.4	671.9
55°	442.3	430.6	407.7	401.9	401.9	407.7	396.3	384.9	384.9	379.0	379.0
57.5°	258.4	241.1	229.7	224.0	212.4	206.8	201.0	201.0	189.5	189.5	189.5
60°	143.5	126.3	114.8	103.4	103.4	97.6	91.9	86.1	86.1	86.1	80.3
62.5°	74.7	63.2	51.6	46.0	46.0	40.1	34.5	34.5	34.5	34.5	28.7
65°	51.6	40.1	34.5	28.7	28.7	22.9	22.9	22.9	22.9	22.9	22.9
67.5°	40.1	34.5	28.7	22.9	22.9	22.9	17.3	17.3	17.3	17.3	17.3
70°	34.5	22.9	22.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
72.5°	22.9	22.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
75°	17.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
77.5°	5.8	5.8	5.8	5.8	5.8	5.8	0.0	0.0	0.0	0.0	0.0
80°	5.8	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: P684789

CATALOG NUMBER: LX6C100D010 EX61009050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9	6006.9
2.5°	6098.9	6093.1	6098.9	6110.3	6087.2	6156.3	6121.8	6156.3
5°	6231.0	6236.6	6242.4	6259.7	6231.0	6317.1	6271.1	6322.7
7.5°	6403.2	6408.8	6414.7	6431.9	6414.7	6500.8	6449.2	6495.0
10°	6581.3	6592.7	6592.7	6621.5	6604.2	6684.5	6650.2	6707.6
12.5°	6747.7	6759.2	6770.8	6787.9	6776.4	6862.6	6833.8	6879.8
15°	6879.8	6902.7	6908.5	6931.4	6920.0	7011.9	6977.4	7023.4
17.5°	6943.1	6965.9	6965.9	6994.6	6983.2	7080.8	7034.8	7086.6
20°	6908.5	6925.8	6931.4	6960.3	6948.7	7046.4	7000.5	7063.5
22.5°	6799.5	6805.1	6811.0	6839.7	6833.8	6920.0	6879.8	6920.0
25°	6598.4	6615.6	6610.0	6632.9	6632.9	6701.7	6655.8	6690.3
27.5°	6311.3	6328.6	6328.6	6357.3	6334.2	6403.2	6357.3	6408.8
30°	5961.0	5978.2	5966.8	5989.7	5966.8	6035.7	6001.1	6018.4
32.5°	5541.8	5541.8	5547.4	5553.2	5541.8	5604.8	5570.5	5604.8
35°	5042.1	5053.6	5059.4	5065.2	5053.6	5099.5	5059.4	5082.3
37.5°	4479.4	4508.1	4502.3	4508.1	4490.9	4548.3	4513.7	4525.4
40°	3876.3	3876.3	3870.5	3882.2	3864.9	3910.9	3887.8	3899.2
42.5°	3175.7	3193.0	3170.1	3198.8	3152.8	3215.9	3193.0	3175.7
45°	2383.4	2360.3	2354.4	2360.3	2343.0	2348.8	2366.1	2354.4
47.5°	1625.3	1625.3	1613.7	1596.4	1619.5	1625.3	1602.2	1602.2
50°	1091.1	1091.1	1079.7	1073.8	1085.5	1079.7	1068.2	1085.5
52.5°	694.8	671.9	671.9	683.4	671.9	660.5	677.8	666.1
55°	379.0	367.6	367.6	379.0	367.6	367.6	361.8	373.2
57.5°	183.7	189.5	183.7	183.7	183.7	183.7	178.1	183.7
60°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
62.5°	34.5	34.5	28.7	28.7	28.7	28.7	28.7	28.7
65°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
67.5°	17.3	17.3	17.3	17.3	17.3	22.9	17.3	17.3
70°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
72.5°	17.3	17.3	22.9	22.9	22.9	22.9	22.9	22.9
75°	11.4	11.4	11.4	5.8	5.8	5.8	5.8	5.8
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)