

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: P684809

Luminaire Tested: **LX6C120D010 EX61209040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684809
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 EX61209040 6LCSWLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

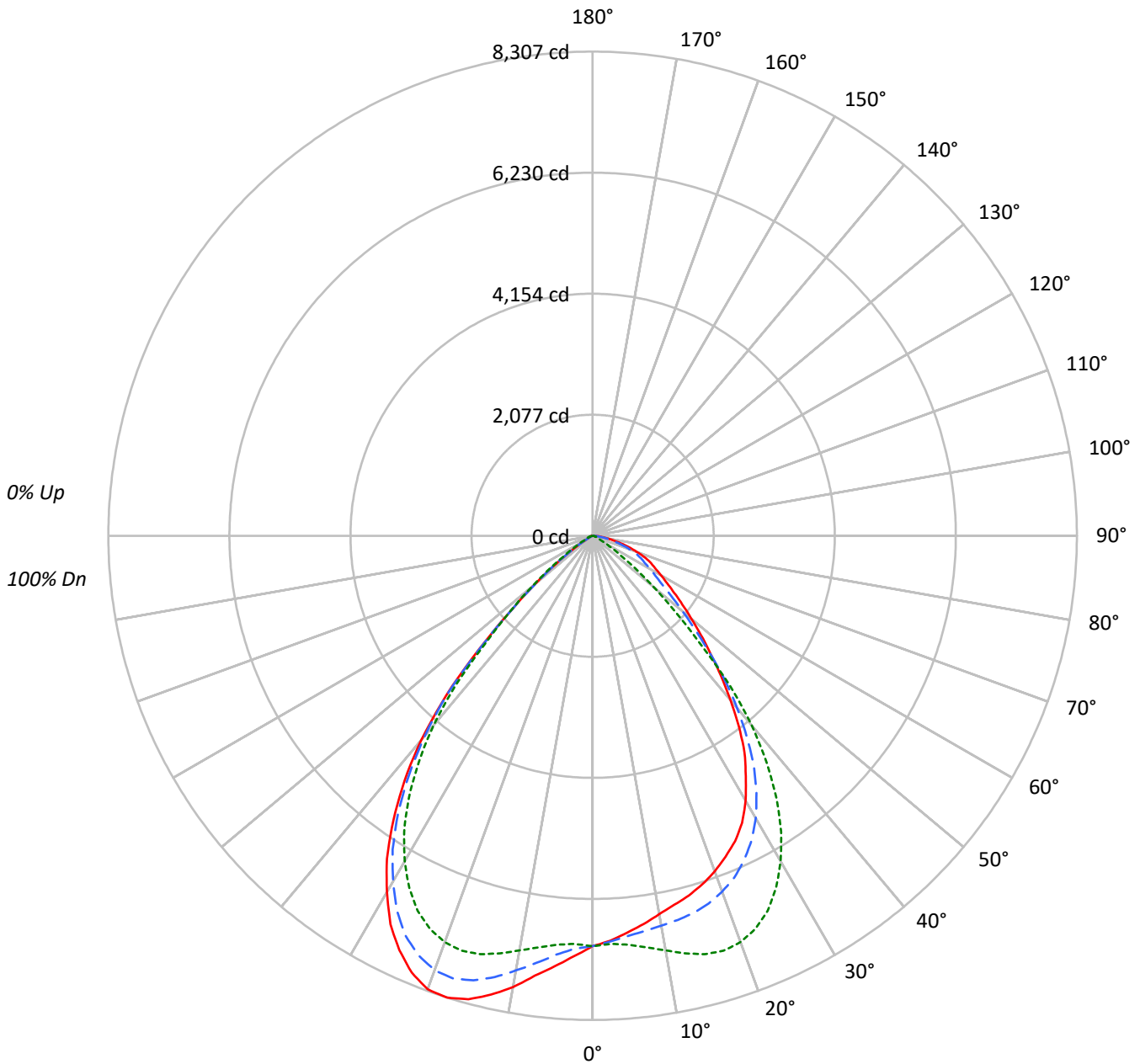
Lumens per Lamp: N/A
Luminaire Lumens: 12871.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
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°	386016	386016	386016
5°	376001	387491	407857
10°	366855	402080	437690
15°	362567	421790	467250
20°	357369	432783	483042
25°	349780	429575	474372
30°	332387	408240	446581
35°	304092	368063	398694
40°	263036	303977	327099
45°	221814	199377	213968
50°	188318	115399	108517
55°	163425	55329	41815
60°	147609	25831	10317
65°	143193	14839	3476
70°	128403	11877	3238
75°	105523	8578	1440
80°	78608	4230	0
85°	67805	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.1	5.3
10°-20°	2072.8	16.1
20°-30°	3167.1	24.6
30°-40°	3312.5	25.7
40°-50°	2148.8	16.7
50°-60°	853.2	6.6
60°-70°	404.7	3.1
70°-80°	192.5	1.5
80°-90°	39.3	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°	5920.0	46.0
0°-40°	9232.5	71.7
0°-60°	12234.5	95.1
0°-90°	12871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12871.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7042	7042	7042	7042	7042	
5°	6833	6894	7042	7217	7412	645
15°	6388	6698	7432	7896	8233	1800
25°	5783	6146	7102	7580	7842	2648
35°	4544	4820	5500	5823	5958	2810
45°	2861	2834	2572	2726	2760	2226
55°	1710	1454	579	451	438	1549
65°	1104	915	114	27	27	1078
75°	498	404	40	13	7	537
85°	108	67	0	0	0	125
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°	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5
2.5°	6953.9	6967.3	6893.5	6873.2	6927.1	6947.1	6953.9	6933.7	6940.5	6967.3	6967.3
5°	6832.7	6846.1	6778.8	6758.6	6812.5	6826.2	6846.1	6839.6	6859.8	6900.0	6893.5
7.5°	6718.4	6738.6	6664.5	6637.7	6705.0	6738.6	6752.0	6752.0	6778.8	6832.7	6839.6
10°	6590.3	6617.4	6550.1	6536.5	6610.6	6644.2	6651.1	6664.5	6705.0	6778.8	6792.3
12.5°	6482.8	6509.6	6462.6	6442.3	6523.0	6556.7	6570.1	6597.2	6644.2	6738.6	6752.0
15°	6388.4	6408.7	6354.8	6341.4	6422.1	6462.6	6469.1	6509.6	6570.1	6677.9	6698.1
17.5°	6267.2	6280.6	6240.4	6227.0	6307.7	6348.0	6354.8	6401.8	6476.0	6583.8	6617.4
20°	6125.8	6139.5	6099.0	6085.6	6166.3	6213.3	6220.2	6260.7	6348.0	6462.6	6496.2
22.5°	5957.5	5984.6	5937.6	5923.9	6004.9	6045.1	6065.3	6099.0	6186.5	6300.9	6348.0
25°	5782.7	5782.7	5749.1	5742.2	5816.4	5863.4	5856.6	5903.7	5991.2	6105.8	6146.0
27.5°	5553.7	5546.9	5513.2	5506.7	5587.4	5627.9	5614.2	5661.5	5742.2	5856.6	5897.1
30°	5250.9	5264.3	5217.2	5203.6	5271.1	5338.4	5331.6	5378.6	5459.4	5567.1	5594.2
32.5°	4887.3	4900.7	4894.1	4873.9	4934.3	4968.0	4988.2	5021.9	5089.2	5203.6	5230.6
35°	4543.9	4523.7	4496.9	4496.9	4557.3	4611.2	4591.0	4631.5	4698.8	4813.1	4820.0
37.5°	4119.9	4113.1	4099.6	4086.2	4153.5	4166.9	4173.8	4200.6	4261.3	4355.4	4342.0
40°	3675.6	3682.2	3675.6	3648.5	3689.0	3742.9	3736.1	3749.7	3803.4	3870.7	3850.7
42.5°	3258.1	3258.1	3258.1	3231.3	3278.3	3305.4	3318.8	3312.0	3325.4	3386.1	3359.1
45°	2861.1	2867.7	2861.1	2854.3	2861.1	2874.5	2861.1	2854.3	2854.3	2874.5	2834.0
47.5°	2517.8	2517.8	2497.5	2477.3	2497.5	2504.1	2484.1	2463.9	2457.1	2450.5	2383.2
50°	2208.1	2201.3	2194.7	2161.0	2181.0	2187.8	2161.0	2147.4	2120.5	2086.9	2006.2
52.5°	1938.9	1932.0	1925.2	1891.6	1905.2	1911.8	1885.0	1857.9	1824.3	1797.4	1696.5
55°	1709.9	1703.1	1703.1	1683.1	1669.4	1683.1	1656.0	1635.8	1588.7	1555.0	1454.1
57.5°	1514.6	1514.6	1501.2	1480.9	1487.7	1487.7	1460.9	1433.8	1393.4	1353.1	1272.4
60°	1346.3	1346.3	1346.3	1326.1	1326.1	1326.1	1312.7	1285.8	1252.2	1211.7	1131.0
62.5°	1211.7	1211.7	1204.9	1184.9	1191.5	1191.5	1178.0	1151.2	1117.6	1090.5	1009.8
65°	1103.9	1103.9	1103.9	1083.9	1083.9	1090.5	1077.1	1050.3	1023.2	989.6	915.4
67.5°	969.3	962.7	962.7	949.1	955.9	962.7	949.1	929.1	895.4	875.2	807.9
70°	801.1	807.9	814.5	794.5	801.1	801.1	794.5	774.2	754.0	733.8	673.3
72.5°	653.0	653.0	646.2	639.6	639.6	646.2	632.8	612.6	599.1	585.7	538.4
75°	498.2	491.4	498.2	484.8	484.8	484.8	471.1	464.5	457.7	437.5	403.8
77.5°	363.6	356.8	356.8	343.3	350.2	350.2	343.3	329.9	316.3	309.7	282.6
80°	249.0	249.0	249.0	242.4	242.4	235.6	235.6	229.0	215.3	208.7	195.3
82.5°	168.3	168.3	168.3	161.7	161.7	161.7	154.8	148.0	141.4	134.6	121.2
85°	107.8	107.8	107.8	101.0	101.0	101.0	94.1	94.1	87.5	80.7	67.3
87.5°	60.5	60.5	60.5	53.9	53.9	53.9	53.9	53.9	47.1	40.5	33.7
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°	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5
2.5°	7014.4	6920.3	6980.7	6980.7	6960.8	7014.4	7048.3	7075.1	7068.3	7007.8	7001.0
5°	6960.8	6879.8	6947.1	6953.9	6933.7	7007.8	7054.9	7088.5	7095.4	7041.5	7048.3
7.5°	6920.3	6853.0	6940.5	6967.3	6960.8	7028.1	7082.0	7135.6	7162.7	7122.2	7129.0
10°	6900.0	6846.1	6940.5	6980.7	6987.6	7061.7	7142.4	7216.6	7250.2	7223.1	7243.4
12.5°	6873.2	6839.6	6947.1	7007.8	7034.6	7108.8	7209.7	7297.3	7351.2	7337.8	7378.0
15°	6846.1	6819.3	6947.1	7034.6	7068.3	7135.6	7250.2	7378.0	7438.7	7431.9	7485.8
17.5°	6778.8	6772.3	6906.9	7001.0	7048.3	7129.0	7236.5	7391.4	7452.1	7465.5	7532.8
20°	6671.3	6671.3	6819.3	6920.3	6974.2	7048.3	7182.9	7330.9	7405.1	7418.5	7492.6
22.5°	6523.0	6536.5	6677.9	6778.8	6859.8	6913.4	7054.9	7209.7	7277.0	7297.3	7378.0
25°	6328.0	6341.4	6476.0	6576.9	6664.5	6724.9	6859.8	7001.0	7082.0	7101.9	7162.7
27.5°	6072.2	6099.0	6227.0	6328.0	6401.8	6442.3	6583.8	6731.8	6792.3	6812.5	6873.2
30°	5775.9	5782.7	5910.5	5998.0	6072.2	6105.8	6227.0	6381.9	6428.9	6449.2	6536.5
32.5°	5412.3	5405.7	5526.9	5607.6	5668.1	5708.6	5836.4	5937.6	5984.6	6018.3	6065.3
35°	4974.8	4968.0	5055.5	5149.9	5197.0	5210.4	5338.4	5445.9	5473.0	5499.8	5560.6
37.5°	4483.5	4483.5	4557.3	4604.7	4658.3	4678.5	4739.3	4860.5	4907.5	4900.7	4947.8
40°	3965.0	3938.2	3991.9	4039.2	4052.6	4059.2	4119.9	4214.0	4247.7	4247.7	4281.3
42.5°	3419.8	3379.3	3386.1	3413.0	3426.4	3379.3	3419.8	3480.3	3460.0	3487.1	3493.9
45°	2840.9	2780.2	2753.3	2692.6	2706.3	2659.0	2632.1	2645.5	2639.0	2571.7	2585.1
47.5°	2369.5	2262.0	2214.7	2127.4	2107.1	2053.2	2019.6	1958.9	1905.2	1905.2	1871.3
50°	1972.5	1864.7	1770.4	1669.4	1635.8	1588.7	1514.6	1433.8	1393.4	1353.1	1319.5
52.5°	1656.0	1541.6	1427.0	1319.5	1272.4	1211.7	1110.7	1030.0	955.9	915.4	875.2
55°	1400.2	1272.4	1151.2	1036.6	976.1	915.4	814.5	720.3	632.8	578.9	545.3
57.5°	1204.9	1083.9	955.9	834.7	780.8	713.5	606.0	504.8	424.1	363.6	329.9
60°	1063.7	942.5	828.1	700.1	646.2	578.9	464.5	370.2	289.5	235.6	195.3
62.5°	942.5	834.7	713.5	599.1	545.3	477.9	370.2	276.0	201.9	148.0	114.4
65°	854.9	747.2	646.2	531.8	484.8	417.5	316.3	229.0	161.7	114.4	80.7
67.5°	754.0	659.6	558.7	464.5	417.5	363.6	269.2	195.3	134.6	94.1	67.3
70°	632.8	558.7	471.1	383.8	350.2	302.9	222.1	161.7	107.8	74.1	53.9
72.5°	504.8	444.3	377.0	309.7	282.6	235.6	181.7	128.0	80.7	53.9	40.5
75°	383.8	336.5	282.6	235.6	208.7	181.7	134.6	94.1	60.5	40.5	26.8
77.5°	262.6	242.4	201.9	161.7	148.0	128.0	87.5	60.5	40.5	26.8	13.4
80°	181.7	161.7	134.6	107.8	94.1	80.7	53.9	40.5	20.2	13.4	6.8
82.5°	114.4	94.1	80.7	67.3	60.5	47.1	33.7	20.2	13.4	6.8	6.8
85°	60.5	53.9	47.1	33.7	33.7	26.8	20.2	13.4	6.8	0.0	0.0
87.5°	33.7	26.8	20.2	13.4	13.4	6.8	6.8	6.8	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°	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5
2.5°	7082.0	7082.0	7075.1	7155.8	7061.7	7155.8	7108.8	7155.8	7088.5	7082.0	7088.5
5°	7135.6	7155.8	7162.7	7236.5	7149.3	7263.6	7223.1	7263.6	7216.6	7230.0	7250.2
7.5°	7243.4	7277.0	7270.5	7364.6	7277.0	7405.1	7378.0	7438.7	7391.4	7405.1	7431.9
10°	7364.6	7405.1	7411.6	7506.0	7425.0	7579.9	7546.2	7613.5	7573.3	7593.6	7627.2
12.5°	7506.0	7553.1	7559.9	7667.4	7579.9	7741.6	7721.3	7788.6	7755.0	7775.2	7815.7
15°	7613.5	7680.8	7694.5	7802.0	7707.9	7876.2	7862.8	7950.3	7896.4	7930.1	7963.7
17.5°	7667.4	7728.2	7755.0	7855.9	7775.2	7943.5	7930.1	8004.2	7963.7	7997.4	8037.9
20°	7633.8	7707.9	7728.2	7829.1	7748.4	7916.7	7896.4	7970.6	7930.1	7956.9	7997.4
22.5°	7512.6	7586.7	7613.5	7707.9	7633.8	7788.6	7782.1	7849.4	7795.5	7829.1	7862.8
25°	7297.3	7378.0	7391.4	7478.9	7398.2	7559.9	7546.2	7620.4	7579.9	7600.1	7647.2
27.5°	6987.6	7082.0	7101.9	7176.1	7115.6	7250.2	7250.2	7310.7	7263.6	7263.6	7310.7
30°	6617.4	6711.5	6724.9	6785.7	6731.8	6853.0	6859.8	6920.3	6846.1	6886.6	6893.5
32.5°	6166.3	6227.0	6267.2	6321.1	6240.4	6395.3	6375.0	6422.1	6381.9	6381.9	6415.5
35°	5621.0	5695.2	5715.4	5782.7	5715.4	5836.4	5836.4	5863.4	5822.9	5822.9	5876.8
37.5°	5028.7	5082.6	5089.2	5156.5	5102.6	5203.6	5197.0	5217.2	5176.7	5203.6	5203.6
40°	4335.2	4375.7	4389.1	4422.7	4416.2	4490.0	4483.5	4496.9	4476.6	4483.5	4496.9
42.5°	3527.6	3581.2	3608.3	3635.1	3594.9	3695.8	3675.6	3695.8	3689.0	3695.8	3716.1
45°	2598.5	2639.0	2659.0	2665.8	2652.4	2712.9	2759.9	2719.7	2726.3	2712.9	2739.9
47.5°	1878.1	1885.0	1871.3	1911.8	1878.1	1905.2	1918.6	1925.2	1885.0	1878.1	1905.2
50°	1285.8	1319.5	1272.4	1292.4	1285.8	1312.7	1299.2	1306.1	1265.6	1285.8	1272.4
52.5°	854.9	848.1	834.7	841.5	828.1	828.1	828.1	841.5	814.5	801.1	787.6
55°	518.4	504.8	477.9	471.1	471.1	477.9	464.5	451.1	451.1	444.3	444.3
57.5°	302.9	282.6	269.2	262.6	249.0	242.4	235.6	235.6	222.1	222.1	222.1
60°	168.3	148.0	134.6	121.2	121.2	114.4	107.8	101.0	101.0	101.0	94.1
62.5°	87.5	74.1	60.5	53.9	53.9	47.1	40.5	40.5	40.5	40.5	33.7
65°	60.5	47.1	40.5	33.7	33.7	26.8	26.8	26.8	26.8	26.8	26.8
67.5°	47.1	40.5	33.7	26.8	26.8	26.8	20.2	20.2	20.2	20.2	20.2
70°	40.5	26.8	26.8	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
72.5°	26.8	26.8	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
75°	20.2	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	0.0	0.0	0.0	0.0	0.0
80°	6.8	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: P684809

CATALOG NUMBER: LX6C120D010 EX61209040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5	7041.5
2.5°	7149.3	7142.4	7149.3	7162.7	7135.6	7216.6	7176.1	7216.6
5°	7304.1	7310.7	7317.5	7337.8	7304.1	7405.1	7351.2	7411.6
7.5°	7506.0	7512.6	7519.4	7539.7	7519.4	7620.4	7559.9	7613.5
10°	7714.8	7728.2	7728.2	7761.8	7741.6	7835.7	7795.5	7862.8
12.5°	7909.8	7923.2	7936.9	7956.9	7943.5	8044.4	8010.8	8064.7
15°	8064.7	8091.5	8098.3	8125.1	8111.7	8219.5	8179.0	8232.9
17.5°	8138.8	8165.6	8165.6	8199.3	8185.9	8300.2	8246.3	8307.1
20°	8098.3	8118.6	8125.1	8159.1	8145.4	8260.0	8206.1	8280.0
22.5°	7970.6	7977.1	7984.0	8017.6	8010.8	8111.7	8064.7	8111.7
25°	7734.7	7755.0	7748.4	7775.2	7775.2	7855.9	7802.0	7842.5
27.5°	7398.2	7418.5	7418.5	7452.1	7425.0	7506.0	7452.1	7512.6
30°	6987.6	7007.8	6994.4	7021.2	6994.4	7075.1	7034.6	7054.9
32.5°	6496.2	6496.2	6502.8	6509.6	6496.2	6570.1	6529.9	6570.1
35°	5910.5	5923.9	5930.7	5937.6	5923.9	5977.8	5930.7	5957.5
37.5°	5250.9	5284.5	5277.7	5284.5	5264.3	5331.6	5291.1	5304.8
40°	4543.9	4543.9	4537.1	4550.8	4530.5	4584.4	4557.3	4570.8
42.5°	3722.6	3742.9	3716.1	3749.7	3695.8	3769.7	3742.9	3722.6
45°	2793.8	2766.7	2759.9	2766.7	2746.5	2753.3	2773.6	2759.9
47.5°	1905.2	1905.2	1891.6	1871.3	1898.4	1905.2	1878.1	1878.1
50°	1279.0	1279.0	1265.6	1258.8	1272.4	1265.6	1252.2	1272.4
52.5°	814.5	787.6	787.6	801.1	787.6	774.2	794.5	780.8
55°	444.3	430.9	430.9	444.3	430.9	430.9	424.1	437.5
57.5°	215.3	222.1	215.3	215.3	215.3	215.3	208.7	215.3
60°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
62.5°	40.5	40.5	33.7	33.7	33.7	33.7	33.7	33.7
65°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
67.5°	20.2	20.2	20.2	20.2	20.2	26.8	20.2	20.2
70°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
72.5°	20.2	20.2	26.8	26.8	26.8	26.8	26.8	26.8
75°	13.4	13.4	13.4	6.8	6.8	6.8	6.8	6.8
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)