

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: P683958

Luminaire Tested: **LX6C120D010 EX6C1209030 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C120D010 EX6C1209030 6LCSWH
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

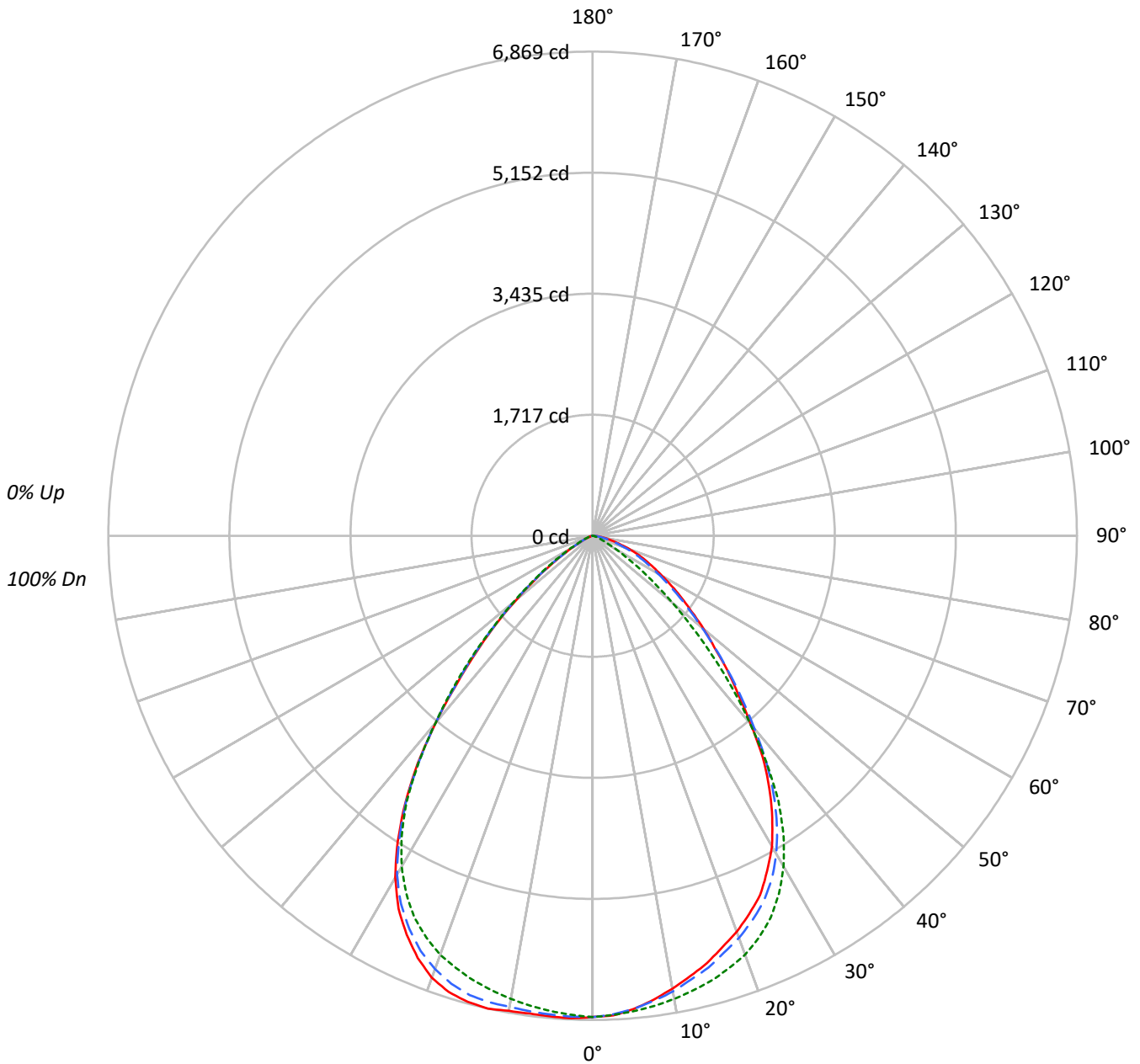
Lumens per Lamp: N/A
Luminaire Lumens: 11455.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	374312	374312	374312
5°	370745	372550	376644
10°	363103	371353	380999
15°	356154	370655	388447
20°	348764	368973	389181
25°	340175	361612	377574
30°	322081	342945	354428
35°	292487	307384	310148
40°	249632	248430	247256
45°	209688	186027	180282
50°	175133	125889	119561
55°	147388	77235	70153
60°	124782	40698	35260
65°	108040	21403	17097
70°	89871	13223	9248
75°	66402	8727	5253
80°	52090	5177	2652
85°	41576	5284	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.5	5.6
10°-20°	1842.5	16.1
20°-30°	2720.7	23.8
30°-40°	2803.9	24.5
40°-50°	1936.6	16.9
50°-60°	954.6	8.3
60°-70°	386.8	3.4
70°-80°	137.9	1.2
80°-90°	28.5	0.2
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°	5206.7	45.5
0°-40°	8010.6	69.9
0°-60°	10901.8	95.2
0°-90°	11455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11455.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6828	6828	6828	6828	6828	
5°	6737	6737	6770	6820	6844	636
15°	6275	6342	6531	6746	6844	1767
25°	5624	5731	5978	6152	6242	2571
35°	4370	4478	4593	4618	4634	2708
45°	2705	2721	2400	2367	2325	2091
55°	1542	1484	808	759	734	1393
65°	833	750	165	132	132	827
75°	314	264	41	25	25	352
85°	66	50	8	0	0	81
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°	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0
2.5°	6811.3	6786.8	6803.2	6770.0	6811.3	6770.0	6778.4	6786.8	6778.4	6786.8	6794.8
5°	6737.2	6712.3	6737.2	6695.9	6737.2	6712.3	6712.3	6720.7	6720.7	6728.8	6737.2
7.5°	6638.2	6613.4	6638.2	6597.0	6646.3	6621.8	6621.8	6638.2	6629.9	6638.2	6654.7
10°	6522.9	6489.7	6514.5	6489.7	6539.3	6506.1	6522.9	6522.9	6522.9	6547.4	6564.1
12.5°	6399.1	6366.0	6399.1	6357.9	6407.2	6382.7	6390.8	6415.6	6423.6	6440.4	6448.5
15°	6275.4	6234.2	6250.6	6225.8	6275.4	6250.6	6259.0	6291.9	6291.9	6316.7	6341.5
17.5°	6118.8	6085.6	6118.8	6085.6	6126.9	6110.4	6126.9	6151.7	6151.7	6176.5	6201.0
20°	5978.3	5945.5	5970.3	5945.5	5995.1	5970.3	5978.3	6011.5	6019.6	6044.4	6069.2
22.5°	5805.3	5780.5	5796.9	5772.4	5821.7	5805.3	5813.7	5846.6	5854.9	5871.4	5912.6
25°	5623.9	5574.3	5599.1	5582.7	5632.3	5607.5	5623.9	5656.8	5673.5	5698.0	5731.2
27.5°	5360.0	5335.2	5351.6	5351.6	5392.9	5368.4	5376.4	5409.6	5434.1	5458.9	5500.2
30°	5088.1	5046.8	5063.3	5071.3	5104.5	5088.1	5104.5	5137.4	5145.7	5178.6	5211.5
32.5°	4741.7	4724.9	4758.1	4741.7	4758.1	4758.1	4766.2	4791.0	4807.4	4824.2	4865.4
35°	4370.5	4337.6	4370.5	4354.1	4395.3	4370.5	4395.3	4420.1	4420.1	4453.0	4477.8
37.5°	3966.4	3925.2	3941.6	3941.6	3958.1	3950.0	3950.0	3991.2	3999.3	4024.1	4048.9
40°	3488.3	3471.5	3504.7	3496.3	3504.7	3504.7	3512.8	3537.6	3554.0	3562.4	3570.8
42.5°	3059.4	3067.5	3075.8	3075.8	3075.8	3075.8	3075.8	3108.7	3100.7	3125.5	3133.5
45°	2704.7	2671.8	2688.2	2680.2	2704.7	2680.2	2704.7	2729.5	2713.0	2737.8	2721.1
47.5°	2341.8	2341.8	2341.8	2333.8	2350.2	2341.8	2358.3	2366.7	2366.7	2366.7	2358.3
50°	2053.5	2028.6	2036.7	2036.7	2045.1	2036.7	2053.5	2061.5	2061.5	2045.1	2012.2
52.5°	1772.8	1764.8	1764.8	1781.2	1781.2	1772.8	1772.8	1772.8	1772.8	1748.3	1731.6
55°	1542.1	1525.7	1533.7	1533.7	1533.7	1533.7	1542.1	1533.7	1533.7	1508.9	1484.4
57.5°	1335.9	1319.5	1319.5	1319.5	1327.5	1319.5	1319.5	1319.5	1311.1	1286.3	1253.4
60°	1138.1	1129.7	1138.1	1138.1	1146.1	1138.1	1138.1	1138.1	1121.6	1096.8	1063.6
62.5°	973.1	973.1	973.1	981.1	981.1	973.1	973.1	964.7	956.6	923.5	890.6
65°	832.9	824.5	832.9	832.9	841.0	841.0	832.9	824.5	816.5	783.3	750.4
67.5°	692.8	684.4	692.8	692.8	700.8	692.8	692.8	692.8	667.9	651.5	618.3
70°	560.7	552.6	552.6	552.6	560.7	544.2	552.6	552.6	536.2	511.3	478.2
72.5°	428.9	428.9	428.9	428.9	428.9	428.9	420.5	420.5	404.1	379.2	362.8
75°	313.5	313.5	321.6	321.6	313.5	313.5	313.5	305.1	296.8	280.3	263.9
77.5°	231.0	231.0	231.0	231.0	222.6	222.6	222.6	214.3	206.2	197.8	181.4
80°	165.0	165.0	165.0	156.6	165.0	156.6	156.6	156.6	140.2	131.8	123.7
82.5°	115.4	107.3	107.3	107.3	107.3	107.3	107.3	98.9	98.9	90.9	82.5
85°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	57.7	49.6	49.6
87.5°	32.9	41.2	41.2	41.2	41.2	41.2	41.2	32.9	32.9	32.9	24.8
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°	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0
2.5°	6794.8	6794.8	6811.3	6786.8	6828.0	6803.2	6794.8	6836.1	6811.3	6803.2	6819.6
5°	6737.2	6745.5	6753.6	6737.2	6778.4	6753.6	6753.6	6794.8	6778.4	6770.0	6794.8
7.5°	6663.0	6671.1	6687.5	6679.5	6712.3	6695.9	6704.3	6745.5	6728.8	6728.8	6753.6
10°	6572.2	6588.6	6605.4	6605.4	6646.3	6629.9	6629.9	6679.5	6663.0	6671.1	6704.3
12.5°	6464.9	6489.7	6514.5	6522.9	6564.1	6539.3	6547.4	6605.4	6597.0	6605.4	6638.2
15°	6349.5	6382.7	6407.2	6407.2	6456.8	6432.0	6456.8	6514.5	6498.1	6530.9	6572.2
17.5°	6217.7	6250.6	6283.5	6291.9	6341.5	6324.7	6357.9	6415.6	6415.6	6432.0	6481.6
20°	6094.0	6135.3	6151.7	6176.5	6225.8	6217.7	6234.2	6300.2	6300.2	6324.7	6374.3
22.5°	5929.0	5970.3	6003.2	6028.0	6069.2	6069.2	6094.0	6151.7	6151.7	6168.1	6217.7
25°	5747.6	5796.9	5821.7	5846.6	5887.8	5879.4	5904.2	5953.8	5961.9	5978.3	6028.0
27.5°	5516.6	5557.9	5591.0	5607.5	5665.1	5632.3	5656.8	5714.8	5706.4	5722.8	5764.1
30°	5228.2	5269.5	5302.3	5302.3	5351.6	5351.6	5376.4	5401.3	5401.3	5417.7	5450.9
32.5°	4889.9	4939.5	4939.5	4964.3	4997.2	4964.3	4997.2	5030.1	5013.6	5038.4	5063.3
35°	4502.3	4527.1	4535.5	4535.5	4560.3	4551.9	4543.5	4568.3	4551.9	4593.1	4618.0
37.5°	4032.5	4065.4	4048.9	4065.4	4057.0	4032.5	4032.5	4073.7	4040.6	4048.9	4073.7
40°	3578.8	3578.8	3570.8	3529.5	3537.6	3512.8	3504.7	3512.8	3479.9	3471.5	3504.7
42.5°	3108.7	3100.7	3075.8	3018.2	3026.2	2985.0	2952.1	2952.1	2935.7	2927.3	2935.7
45°	2688.2	2663.4	2622.2	2556.4	2539.7	2506.8	2440.8	2424.3	2399.5	2399.5	2407.9
47.5°	2300.6	2267.7	2201.7	2127.6	2086.3	2045.1	1979.0	1954.2	1913.0	1896.5	1913.0
50°	1979.0	1921.4	1838.9	1731.6	1690.3	1641.0	1575.0	1533.7	1492.5	1476.1	1467.7
52.5°	1682.3	1599.8	1517.3	1385.5	1352.3	1303.0	1212.2	1170.9	1129.7	1096.8	1096.8
55°	1426.4	1352.3	1237.0	1113.2	1063.6	1014.3	923.5	865.8	824.5	808.1	791.7
57.5°	1195.7	1113.2	1006.0	874.2	824.5	775.2	684.4	626.7	585.5	560.7	544.2
60°	1006.0	915.4	808.1	692.8	635.1	585.5	494.9	436.9	395.7	371.2	354.4
62.5°	824.5	750.4	643.1	536.2	486.5	436.9	362.8	305.1	263.9	247.5	222.6
65°	692.8	618.3	519.4	428.9	387.6	338.0	272.3	222.6	189.8	165.0	148.5
67.5°	560.7	503.0	420.5	338.0	296.8	263.9	206.2	165.0	131.8	115.4	107.3
70°	445.3	387.6	321.6	255.5	231.0	197.8	156.6	115.4	98.9	82.5	74.1
72.5°	329.9	288.7	239.1	189.8	165.0	148.5	107.3	90.9	66.1	57.7	49.6
75°	239.1	206.2	173.0	131.8	115.4	107.3	82.5	57.7	49.6	41.2	32.9
77.5°	165.0	148.5	115.4	90.9	82.5	74.1	57.7	41.2	32.9	24.8	24.8
80°	107.3	90.9	74.1	57.7	57.7	49.6	32.9	24.8	24.8	16.4	16.4
82.5°	66.1	57.7	49.6	41.2	32.9	32.9	24.8	16.4	16.4	8.4	8.4
85°	41.2	32.9	24.8	24.8	16.4	16.4	16.4	8.4	8.4	8.4	8.4
87.5°	16.4	16.4	16.4	8.4	8.4	8.4	8.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0
2.5°	6819.6	6819.6	6836.1	6811.3	6828.0	6828.0	6844.4	6811.3	6828.0	6836.1	6852.5
5°	6786.8	6794.8	6811.3	6803.2	6811.3	6811.3	6828.0	6786.8	6819.6	6819.6	6844.4
7.5°	6753.6	6753.6	6770.0	6762.0	6778.4	6786.8	6803.2	6770.0	6803.2	6803.2	6828.0
10°	6712.3	6712.3	6737.2	6728.8	6753.6	6762.0	6786.8	6753.6	6786.8	6794.8	6819.6
12.5°	6654.7	6663.0	6687.5	6687.5	6712.3	6728.8	6753.6	6737.2	6778.4	6786.8	6819.6
15°	6588.6	6605.4	6638.2	6629.9	6654.7	6679.5	6712.3	6687.5	6745.5	6762.0	6794.8
17.5°	6506.1	6522.9	6547.4	6547.4	6572.2	6588.6	6629.9	6613.4	6663.0	6671.1	6712.3
20°	6382.7	6407.2	6440.4	6432.0	6456.8	6473.3	6506.1	6489.7	6539.3	6555.7	6597.0
22.5°	6234.2	6250.6	6275.4	6275.4	6300.2	6316.7	6349.5	6324.7	6374.3	6382.7	6415.6
25°	6036.3	6052.8	6069.2	6077.6	6102.1	6110.4	6126.9	6110.4	6151.7	6160.1	6201.0
27.5°	5780.5	5788.9	5813.7	5813.7	5830.1	5838.2	5863.0	5830.1	5887.8	5887.8	5912.6
30°	5475.4	5467.3	5500.2	5483.7	5500.2	5500.2	5525.0	5508.6	5549.8	5533.4	5557.9
32.5°	5071.3	5088.1	5088.1	5071.3	5104.5	5096.1	5096.1	5079.7	5104.5	5112.6	5129.0
35°	4601.5	4626.0	4626.0	4634.4	4642.8	4618.0	4626.0	4576.7	4618.0	4626.0	4634.4
37.5°	4090.2	4065.4	4081.8	4057.0	4098.2	4048.9	4048.9	4016.1	4048.9	4048.9	4057.0
40°	3504.7	3496.3	3512.8	3496.3	3488.3	3479.9	3463.5	3438.7	3471.5	3455.1	3479.9
42.5°	2952.1	2943.7	2943.7	2927.3	2919.2	2919.2	2902.8	2886.1	2878.0	2878.0	2919.2
45°	2383.1	2399.5	2383.1	2375.0	2391.5	2375.0	2383.1	2350.2	2366.7	2350.2	2366.7
47.5°	1904.9	1913.0	1896.5	1880.1	1904.9	1880.1	1880.1	1855.3	1888.5	1888.5	1871.7
50°	1476.1	1467.7	1451.3	1467.7	1459.6	1459.6	1459.6	1434.8	1451.3	1426.4	1443.2
52.5°	1088.4	1080.4	1080.4	1072.0	1080.4	1072.0	1072.0	1063.6	1063.6	1055.6	1063.6
55°	791.7	783.3	766.9	766.9	766.9	775.2	766.9	758.8	758.8	750.4	758.8
57.5°	536.2	519.4	519.4	519.4	519.4	511.3	511.3	503.0	511.3	503.0	511.3
60°	346.4	346.4	329.9	329.9	329.9	329.9	329.9	321.6	329.9	329.9	329.9
62.5°	214.3	214.3	206.2	197.8	206.2	197.8	197.8	197.8	206.2	197.8	206.2
65°	140.2	131.8	131.8	131.8	131.8	131.8	131.8	131.8	131.8	131.8	131.8
67.5°	98.9	90.9	90.9	90.9	90.9	90.9	90.9	82.5	90.9	90.9	90.9
70°	66.1	66.1	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
72.5°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
75°	32.9	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
77.5°	24.8	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
80°	16.4	16.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	8.4	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	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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: P683958

CATALOG NUMBER: LX6C120D010 EX6C1209030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0	6828.0
2.5°	6828.0	6836.1	6819.6	6828.0	6811.3	6828.0	6836.1	6852.5
5°	6811.3	6819.6	6803.2	6819.6	6803.2	6819.6	6828.0	6844.4
7.5°	6794.8	6811.3	6794.8	6811.3	6794.8	6811.3	6819.6	6836.1
10°	6794.8	6819.6	6803.2	6828.0	6803.2	6819.6	6836.1	6844.4
12.5°	6794.8	6819.6	6811.3	6828.0	6819.6	6836.1	6852.5	6868.9
15°	6778.4	6803.2	6786.8	6811.3	6803.2	6811.3	6844.4	6844.4
17.5°	6687.5	6712.3	6712.3	6728.8	6728.8	6753.6	6770.0	6786.8
20°	6572.2	6597.0	6588.6	6613.4	6613.4	6638.2	6654.7	6671.1
22.5°	6399.1	6432.0	6423.6	6448.5	6440.4	6456.8	6489.7	6481.6
25°	6176.5	6217.7	6209.4	6225.8	6217.7	6217.7	6234.2	6242.2
27.5°	5904.2	5929.0	5920.7	5937.4	5920.7	5937.4	5953.8	5961.9
30°	5549.8	5566.2	5557.9	5566.2	5557.9	5574.3	5582.7	5599.1
32.5°	5120.9	5145.7	5120.9	5137.4	5129.0	5129.0	5162.2	5145.7
35°	4609.6	4618.0	4626.0	4626.0	4609.6	4618.0	4634.4	4634.4
37.5°	4040.6	4081.8	4032.5	4057.0	4048.9	4048.9	4048.9	4073.7
40°	3447.0	3455.1	3438.7	3438.7	3438.7	3430.3	3463.5	3455.1
42.5°	2886.1	2894.4	2886.1	2861.6	2869.6	2869.6	2894.4	2861.6
45°	2341.8	2358.3	2350.2	2350.2	2333.8	2333.8	2341.8	2325.4
47.5°	1855.3	1871.7	1847.2	1855.3	1838.9	1855.3	1847.2	1863.7
50°	1410.0	1426.4	1418.4	1426.4	1426.4	1410.0	1434.8	1401.9
52.5°	1055.6	1063.6	1055.6	1047.2	1039.1	1039.1	1055.6	1047.2
55°	750.4	742.1	742.1	742.1	750.4	750.4	742.1	734.0
57.5°	503.0	503.0	494.9	494.9	503.0	486.5	494.9	486.5
60°	321.6	321.6	321.6	321.6	313.5	321.6	321.6	321.6
62.5°	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8
65°	131.8	131.8	131.8	131.8	131.8	131.8	131.8	131.8
67.5°	82.5	90.9	90.9	90.9	82.5	82.5	82.5	82.5
70°	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
72.5°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
75°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
77.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	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)