

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: P685280

Luminaire Tested: **LX6C90D010 EX6909040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685280
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: LX6C90D010 EX6909040 6LCSWLI
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

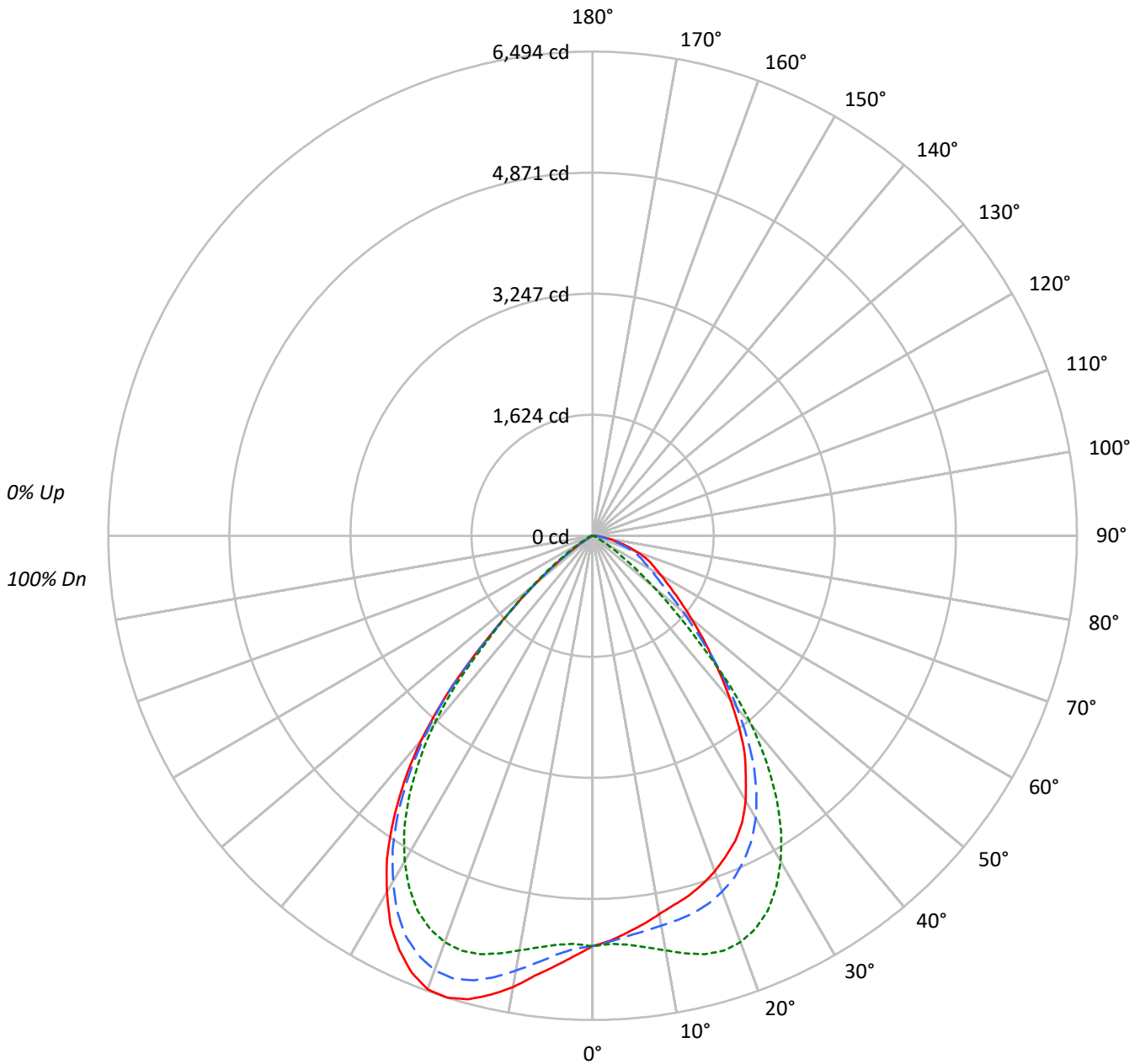
Lumens per Lamp: N/A
Luminaire Lumens: 10062.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	301769	301769	301769
5°	293940	302921	318847
10°	286791	314328	342167
15°	283441	329735	365280
20°	279377	338328	377619
25°	273445	335826	370848
30°	259844	319144	349117
35°	237731	287736	311688
40°	205628	237631	255708
45°	173406	155861	167273
50°	147219	90215	84833
55°	127757	43258	32687
60°	115396	20196	8070
65°	111945	11597	2724
70°	100369	9296	2532
75°	82500	6693	1123
80°	61435	3315	0
85°	53024	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.7	5.3
10°-20°	1620.4	16.1
20°-30°	2475.9	24.6
30°-40°	2589.6	25.7
40°-50°	1679.9	16.7
50°-60°	667.0	6.6
60°-70°	316.4	3.1
70°-80°	150.5	1.5
80°-90°	30.7	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°	4628.0	46.0
0°-40°	7217.6	71.7
0°-60°	9564.4	95.1
0°-90°	10062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10062.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5505	5505	5505	5505	5505	
5°	5342	5389	5505	5642	5794	504
15°	4994	5236	5810	6173	6436	1407
25°	4521	4805	5552	5926	6131	2070
35°	3552	3768	4300	4552	4657	2197
45°	2237	2216	2010	2131	2158	1740
55°	1337	1137	453	353	342	1211
65°	863	716	89	21	21	843
75°	390	316	32	10	5	420
85°	84	53	0	0	0	98
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°	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7
2.5°	5436.3	5446.8	5389.0	5373.2	5415.3	5430.9	5436.3	5420.5	5425.8	5446.8	5446.8
5°	5341.5	5352.0	5299.4	5283.6	5325.7	5336.4	5352.0	5346.9	5362.7	5394.2	5389.0
7.5°	5252.1	5268.0	5210.0	5189.0	5241.7	5268.0	5278.4	5278.4	5299.4	5341.5	5346.9
10°	5152.0	5173.2	5120.6	5109.9	5167.9	5194.2	5199.5	5210.0	5241.7	5299.4	5309.9
12.5°	5068.0	5089.0	5052.2	5036.3	5099.4	5125.7	5136.2	5157.4	5194.2	5268.0	5278.4
15°	4994.2	5010.0	4967.9	4957.4	5020.5	5052.2	5057.3	5089.0	5136.2	5220.5	5236.3
17.5°	4899.5	4909.9	4878.5	4868.0	4931.1	4962.6	4967.9	5004.7	5062.6	5146.9	5173.2
20°	4788.9	4799.6	4767.9	4757.4	4820.5	4857.3	4862.7	4894.3	4962.6	5052.2	5078.5
22.5°	4657.4	4678.5	4641.7	4631.0	4694.3	4725.8	4741.6	4767.9	4836.4	4925.8	4962.6
25°	4520.7	4520.7	4494.4	4489.0	4547.0	4583.8	4578.4	4615.2	4683.7	4773.3	4804.7
27.5°	4341.7	4336.3	4310.0	4304.9	4368.0	4399.6	4388.9	4425.9	4489.0	4578.4	4610.1
30°	4104.9	4115.4	4078.6	4067.9	4120.7	4173.3	4168.0	4204.8	4267.9	4352.2	4373.3
32.5°	3820.7	3831.2	3826.0	3810.2	3857.5	3883.8	3899.6	3925.9	3978.5	4067.9	4089.1
35°	3552.3	3536.4	3515.5	3515.5	3562.7	3604.9	3589.0	3620.7	3673.3	3762.7	3768.1
37.5°	3220.7	3215.4	3204.9	3194.4	3247.1	3257.5	3262.9	3283.8	3331.3	3404.9	3394.4
40°	2873.4	2878.6	2873.4	2852.3	2883.9	2926.0	2920.7	2931.4	2973.3	3025.9	3010.3
42.5°	2547.0	2547.0	2547.0	2526.1	2562.9	2584.0	2594.5	2589.2	2599.7	2647.1	2626.0
45°	2236.7	2241.8	2236.7	2231.4	2236.7	2247.2	2236.7	2231.4	2231.4	2247.2	2215.5
47.5°	1968.3	1968.3	1952.5	1936.6	1952.5	1957.6	1942.0	1926.2	1920.8	1915.7	1863.1
50°	1726.2	1720.8	1715.7	1689.4	1705.0	1710.4	1689.4	1678.7	1657.7	1631.4	1568.3
52.5°	1515.7	1510.4	1505.0	1478.7	1489.4	1494.6	1473.6	1452.4	1426.1	1405.2	1326.2
55°	1336.7	1331.4	1331.4	1315.8	1305.1	1315.8	1294.6	1278.8	1242.0	1215.7	1136.7
57.5°	1184.0	1184.0	1173.5	1157.7	1163.1	1163.1	1142.1	1120.9	1089.3	1057.8	994.7
60°	1052.5	1052.5	1052.5	1036.7	1036.7	1036.7	1026.2	1005.2	978.9	947.3	884.2
62.5°	947.3	947.3	941.9	926.3	931.4	931.4	920.9	900.0	873.7	852.5	789.4
65°	863.0	863.0	863.0	847.4	847.4	852.5	842.0	821.1	799.9	773.6	715.6
67.5°	757.8	752.6	752.6	741.9	747.3	752.6	741.9	726.3	700.0	684.2	631.6
70°	626.2	631.6	636.7	621.1	626.2	626.2	621.1	605.3	589.4	573.6	526.3
72.5°	510.5	510.5	505.2	500.0	500.0	505.2	494.7	478.9	468.4	457.9	420.9
75°	389.5	384.1	389.5	379.0	379.0	379.0	368.3	363.2	357.8	342.0	315.7
77.5°	284.2	278.9	278.9	268.4	273.8	273.8	268.4	257.9	247.2	242.1	220.9
80°	194.6	194.6	194.6	189.5	189.5	184.2	184.2	179.0	168.3	163.2	152.7
82.5°	131.5	131.5	131.5	126.4	126.4	126.4	121.1	115.7	110.6	105.2	94.7
85°	84.3	84.3	84.3	78.9	78.9	78.9	73.6	73.6	68.4	63.1	52.6
87.5°	47.3	47.3	47.3	42.1	42.1	42.1	42.1	42.1	36.8	31.6	26.3
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°	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7
2.5°	5483.6	5410.0	5457.3	5457.3	5441.6	5483.6	5510.1	5531.0	5525.7	5478.4	5473.1
5°	5441.6	5378.3	5430.9	5436.3	5420.5	5478.4	5515.2	5541.5	5546.9	5504.7	5510.1
7.5°	5410.0	5357.4	5425.8	5446.8	5441.6	5494.2	5536.4	5578.3	5599.5	5567.8	5573.2
10°	5394.2	5352.0	5425.8	5457.3	5462.6	5520.5	5583.6	5641.6	5667.9	5646.7	5662.6
12.5°	5373.2	5346.9	5430.9	5478.4	5499.4	5557.3	5636.3	5704.7	5746.8	5736.3	5767.8
15°	5352.0	5331.1	5430.9	5499.4	5525.7	5578.3	5667.9	5767.8	5815.3	5809.9	5852.1
17.5°	5299.4	5294.3	5399.5	5473.1	5510.1	5573.2	5657.2	5778.3	5825.8	5836.2	5888.8
20°	5215.3	5215.3	5331.1	5410.0	5452.1	5510.1	5615.3	5731.0	5789.0	5799.4	5857.4
22.5°	5099.4	5109.9	5220.5	5299.4	5362.7	5404.6	5515.2	5636.3	5688.9	5704.7	5767.8
25°	4946.9	4957.4	5062.6	5141.6	5210.0	5257.3	5362.7	5473.1	5536.4	5552.0	5599.5
27.5°	4747.0	4767.9	4868.0	4946.9	5004.7	5036.3	5146.9	5262.6	5309.9	5325.7	5373.2
30°	4515.3	4520.7	4620.6	4689.0	4747.0	4773.3	4868.0	4989.1	5025.9	5041.7	5109.9
32.5°	4231.1	4226.0	4320.7	4383.8	4431.1	4462.7	4562.6	4641.7	4678.5	4704.8	4741.6
35°	3889.1	3883.8	3952.2	4026.0	4062.8	4073.3	4173.3	4257.4	4278.6	4299.5	4347.0
37.5°	3505.0	3505.0	3562.7	3599.7	3641.7	3657.5	3705.0	3799.7	3836.5	3831.2	3867.9
40°	3099.7	3078.7	3120.7	3157.7	3168.1	3173.3	3220.7	3294.3	3320.6	3320.6	3346.9
42.5°	2673.4	2641.8	2647.1	2668.1	2678.6	2641.8	2673.4	2720.7	2704.9	2726.1	2731.4
45°	2220.9	2173.4	2152.4	2105.0	2115.6	2078.7	2057.7	2068.2	2063.0	2010.4	2020.9
47.5°	1852.4	1768.3	1731.3	1663.1	1647.3	1605.1	1578.8	1531.4	1489.4	1489.4	1462.9
50°	1542.0	1457.8	1384.0	1305.1	1278.8	1242.0	1184.0	1120.9	1089.3	1057.8	1031.5
52.5°	1294.6	1205.2	1115.6	1031.5	994.7	947.3	868.3	805.2	747.3	715.6	684.2
55°	1094.6	994.7	900.0	810.4	763.1	715.6	636.7	563.1	494.7	452.6	426.3
57.5°	941.9	847.4	747.3	652.5	610.4	557.8	473.7	394.6	331.5	284.2	257.9
60°	831.5	736.8	647.4	547.3	505.2	452.6	363.2	289.4	226.3	184.2	152.7
62.5°	736.8	652.5	557.8	468.4	426.3	373.6	289.4	215.8	157.8	115.7	89.4
65°	668.4	584.1	505.2	415.8	379.0	326.4	247.2	179.0	126.4	89.4	63.1
67.5°	589.4	515.7	436.7	363.2	326.4	284.2	210.5	152.7	105.2	73.6	52.6
70°	494.7	436.7	368.3	300.1	273.8	236.8	173.7	126.4	84.3	58.0	42.1
72.5°	394.6	347.3	294.7	242.1	220.9	184.2	142.0	100.1	63.1	42.1	31.6
75°	300.1	263.1	220.9	184.2	163.2	142.0	105.2	73.6	47.3	31.6	21.0
77.5°	205.3	189.5	157.8	126.4	115.7	100.1	68.4	47.3	31.6	21.0	10.5
80°	142.0	126.4	105.2	84.3	73.6	63.1	42.1	31.6	15.8	10.5	5.3
82.5°	89.4	73.6	63.1	52.6	47.3	36.8	26.3	15.8	10.5	5.3	5.3
85°	47.3	42.1	36.8	26.3	26.3	21.0	15.8	10.5	5.3	0.0	0.0
87.5°	26.3	21.0	15.8	10.5	10.5	5.3	5.3	5.3	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°	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7
2.5°	5536.4	5536.4	5531.0	5594.1	5520.5	5594.1	5557.3	5594.1	5541.5	5536.4	5541.5
5°	5578.3	5594.1	5599.5	5657.2	5589.0	5678.4	5646.7	5678.4	5641.6	5652.1	5667.9
7.5°	5662.6	5688.9	5683.7	5757.3	5688.9	5789.0	5767.8	5815.3	5778.3	5789.0	5809.9
10°	5757.3	5789.0	5794.1	5867.9	5804.6	5925.6	5899.3	5951.9	5920.5	5936.3	5962.6
12.5°	5867.9	5904.7	5910.0	5994.1	5925.6	6052.0	6036.2	6088.8	6062.5	6078.3	6110.0
15°	5951.9	6004.6	6015.2	6099.3	6025.7	6157.3	6146.8	6215.2	6173.1	6199.4	6225.7
17.5°	5994.1	6041.5	6062.5	6141.4	6078.3	6209.9	6199.4	6257.3	6225.7	6252.0	6283.7
20°	5967.8	6025.7	6041.5	6120.5	6057.4	6188.9	6173.1	6231.0	6199.4	6220.4	6252.0
22.5°	5873.0	5931.0	5951.9	6025.7	5967.8	6088.8	6083.7	6136.3	6094.2	6120.5	6146.8
25°	5704.7	5767.8	5778.3	5846.7	5783.6	5910.0	5899.3	5957.3	5925.6	5941.5	5978.3
27.5°	5462.6	5536.4	5552.0	5610.0	5562.7	5667.9	5667.9	5715.2	5678.4	5678.4	5715.2
30°	5173.2	5246.8	5257.3	5304.8	5262.6	5357.4	5362.7	5410.0	5352.0	5383.7	5389.0
32.5°	4820.5	4868.0	4899.5	4941.6	4878.5	4999.5	4983.7	5020.5	4989.1	4989.1	5015.4
35°	4394.3	4452.2	4468.1	4520.7	4468.1	4562.6	4562.6	4583.8	4552.1	4552.1	4594.3
37.5°	3931.2	3973.4	3978.5	4031.1	3989.0	4067.9	4062.8	4078.6	4047.0	4067.9	4067.9
40°	3389.1	3420.7	3431.2	3457.5	3452.4	3510.1	3505.0	3515.5	3499.6	3505.0	3515.5
42.5°	2757.7	2799.6	2820.8	2841.8	2810.3	2889.2	2873.4	2889.2	2883.9	2889.2	2905.1
45°	2031.4	2063.0	2078.7	2084.0	2073.5	2120.8	2157.6	2126.1	2131.3	2120.8	2142.0
47.5°	1468.3	1473.6	1462.9	1494.6	1468.3	1489.4	1499.9	1505.0	1473.6	1468.3	1489.4
50°	1005.2	1031.5	994.7	1010.4	1005.2	1026.2	1015.7	1021.0	989.4	1005.2	994.7
52.5°	668.4	663.0	652.5	657.9	647.4	647.4	647.4	657.9	636.7	626.2	615.7
55°	405.3	394.6	373.6	368.3	368.3	373.6	363.2	352.7	352.7	347.3	347.3
57.5°	236.8	220.9	210.5	205.3	194.6	189.5	184.2	184.2	173.7	173.7	173.7
60°	131.5	115.7	105.2	94.7	94.7	89.4	84.3	78.9	78.9	78.9	73.6
62.5°	68.4	58.0	47.3	42.1	42.1	36.8	31.6	31.6	31.6	31.6	26.3
65°	47.3	36.8	31.6	26.3	26.3	21.0	21.0	21.0	21.0	21.0	21.0
67.5°	36.8	31.6	26.3	21.0	21.0	21.0	15.8	15.8	15.8	15.8	15.8
70°	31.6	21.0	21.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
72.5°	21.0	21.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	15.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	0.0	0.0	0.0	0.0	0.0
80°	5.3	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: P685280

CATALOG NUMBER: LX6C90D010 EX6909040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7	5504.7
2.5°	5589.0	5583.6	5589.0	5599.5	5578.3	5641.6	5610.0	5641.6
5°	5710.0	5715.2	5720.5	5736.3	5710.0	5789.0	5746.8	5794.1
7.5°	5867.9	5873.0	5878.4	5894.2	5878.4	5957.3	5910.0	5951.9
10°	6031.1	6041.5	6041.5	6067.9	6052.0	6125.6	6094.2	6146.8
12.5°	6183.6	6194.1	6204.7	6220.4	6209.9	6288.8	6262.5	6304.6
15°	6304.6	6325.6	6330.9	6351.9	6341.4	6425.7	6394.0	6436.2
17.5°	6362.6	6383.5	6383.5	6409.8	6399.4	6488.8	6446.6	6494.1
20°	6330.9	6346.8	6351.9	6378.4	6367.7	6457.3	6415.2	6472.9
22.5°	6231.0	6236.2	6241.5	6267.8	6262.5	6341.4	6304.6	6341.4
25°	6046.7	6062.5	6057.4	6078.3	6078.3	6141.4	6099.3	6131.0
27.5°	5783.6	5799.4	5799.4	5825.8	5804.6	5867.9	5825.8	5873.0
30°	5462.6	5478.4	5467.9	5488.9	5467.9	5531.0	5499.4	5515.2
32.5°	5078.5	5078.5	5083.6	5089.0	5078.5	5136.2	5104.8	5136.2
35°	4620.6	4631.0	4636.4	4641.7	4631.0	4673.2	4636.4	4657.4
37.5°	4104.9	4131.2	4125.9	4131.2	4115.4	4168.0	4136.4	4147.0
40°	3552.3	3552.3	3546.9	3557.6	3541.8	3583.9	3562.7	3573.2
42.5°	2910.2	2926.0	2905.1	2931.4	2889.2	2947.0	2926.0	2910.2
45°	2184.1	2162.9	2157.6	2162.9	2147.1	2152.4	2168.3	2157.6
47.5°	1489.4	1489.4	1478.7	1462.9	1484.1	1489.4	1468.3	1468.3
50°	999.9	999.9	989.4	984.0	994.7	989.4	978.9	994.7
52.5°	636.7	615.7	615.7	626.2	615.7	605.3	621.1	610.4
55°	347.3	336.9	336.9	347.3	336.9	336.9	331.5	342.0
57.5°	168.3	173.7	168.3	168.3	168.3	168.3	163.2	168.3
60°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
62.5°	31.6	31.6	26.3	26.3	26.3	26.3	26.3	26.3
65°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
67.5°	15.8	15.8	15.8	15.8	15.8	21.0	15.8	15.8
70°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
72.5°	15.8	15.8	21.0	21.0	21.0	21.0	21.0	21.0
75°	10.5	10.5	10.5	5.3	5.3	5.3	5.3	5.3
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)