

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: P684769

Luminaire Tested: **LX6C100D010 EX61009027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684769
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 EX61009027 6LCSWLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

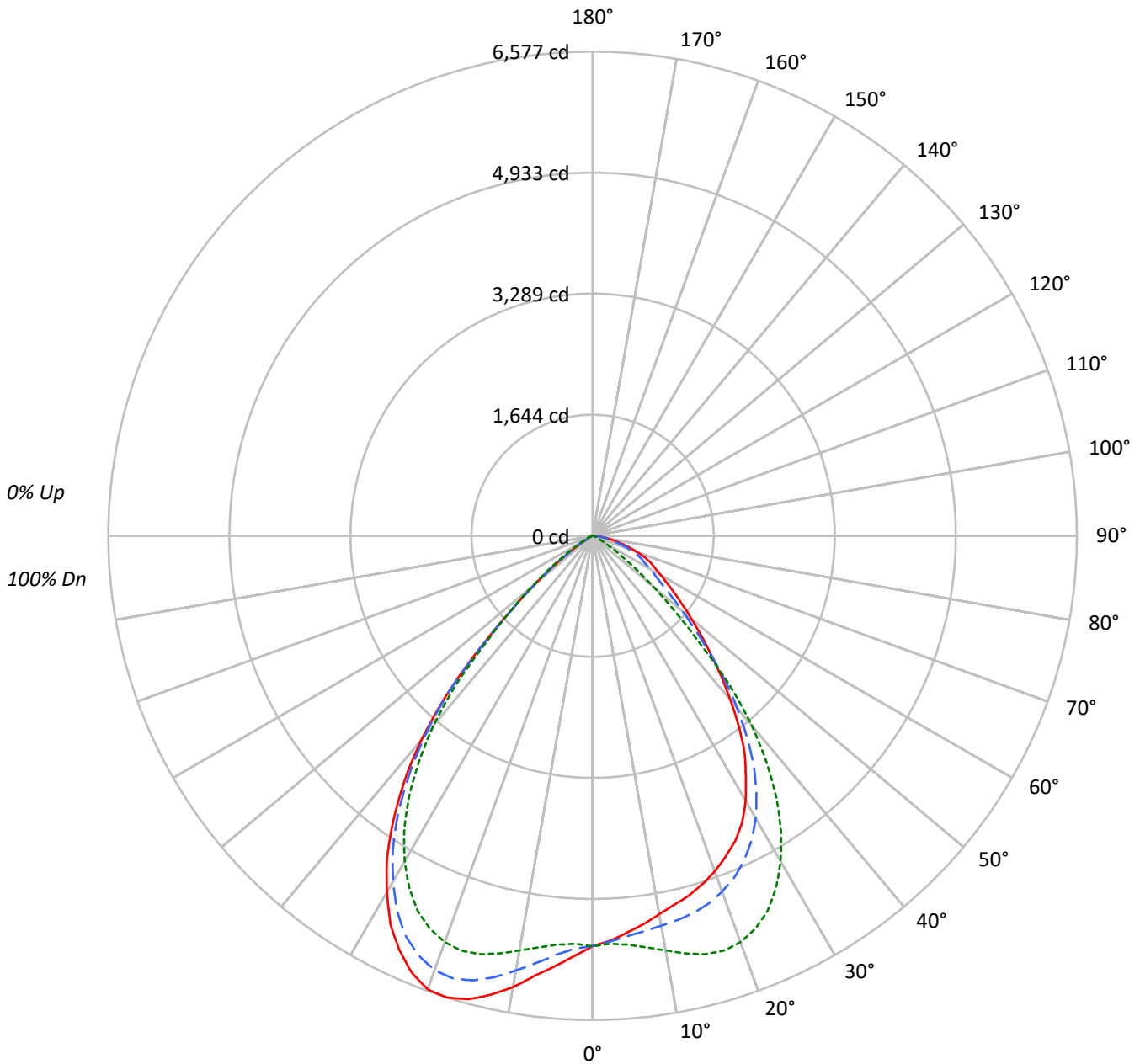
Lumens per Lamp: N/A
Luminaire Lumens: 10190.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	305611	305611	305611
5°	297682	306779	322903
10°	290442	318331	346520
15°	287045	333929	369923
20°	282930	342633	382426
25°	276923	340096	375560
30°	263148	323202	353561
35°	240749	291396	315649
40°	208247	240658	258964
45°	175615	157846	169397
50°	149087	91366	85916
55°	129381	43803	33098
60°	116866	20448	8168
65°	113371	11739	2750
70°	101652	9409	2565
75°	83537	6799	1144
80°	62224	3346	0
85°	53653	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.5	5.3
10°-20°	1641.1	16.1
20°-30°	2507.4	24.6
30°-40°	2622.5	25.7
40°-50°	1701.2	16.7
50°-60°	675.5	6.6
60°-70°	320.4	3.1
70°-80°	152.4	1.5
80°-90°	31.1	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°	4686.9	46.0
0°-40°	7309.4	71.7
0°-60°	9686.1	95.1
0°-90°	10190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5575	5575	5575	5575	5575	
5°	5410	5458	5575	5713	5868	511
15°	5058	5303	5884	6252	6518	1425
25°	4578	4866	5623	6001	6209	2096
35°	3597	3816	4354	4610	4717	2225
45°	2265	2244	2036	2158	2185	1762
55°	1354	1151	458	357	346	1227
65°	874	725	90	21	21	854
75°	394	320	32	11	5	425
85°	85	53	0	0	0	99
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°	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8
2.5°	5505.4	5516.1	5457.6	5441.5	5484.2	5500.0	5505.4	5489.4	5494.8	5516.1	5516.1
5°	5409.5	5420.1	5366.8	5350.8	5393.5	5404.3	5420.1	5414.9	5430.9	5462.8	5457.6
7.5°	5318.9	5335.0	5276.3	5255.0	5308.3	5335.0	5345.6	5345.6	5366.8	5409.5	5414.9
10°	5217.6	5239.0	5185.7	5174.9	5233.6	5260.3	5265.7	5276.3	5308.3	5366.8	5377.4
12.5°	5132.5	5153.7	5116.4	5100.4	5164.3	5190.9	5201.6	5223.0	5260.3	5335.0	5345.6
15°	5057.7	5073.8	5031.1	5020.5	5084.4	5116.4	5121.6	5153.7	5201.6	5286.9	5302.9
17.5°	4961.8	4972.4	4940.6	4929.9	4993.8	5025.7	5031.1	5068.4	5127.0	5212.4	5239.0
20°	4849.8	4860.6	4828.6	4818.0	4881.9	4919.1	4924.5	4956.6	5025.7	5116.4	5143.1
22.5°	4716.6	4738.0	4700.8	4690.0	4754.1	4785.9	4801.9	4828.6	4897.9	4988.4	5025.7
25°	4578.2	4578.2	4551.5	4546.1	4604.8	4642.1	4636.7	4673.9	4743.2	4834.0	4865.8
27.5°	4396.9	4391.5	4364.9	4359.6	4423.5	4455.6	4444.8	4482.2	4546.1	4636.7	4668.7
30°	4157.1	4167.7	4130.5	4119.7	4173.2	4226.4	4221.0	4258.3	4322.2	4407.5	4429.0
32.5°	3869.3	3879.9	3874.7	3858.7	3906.5	3933.2	3949.2	3975.8	4029.1	4119.7	4141.1
35°	3597.4	3581.4	3560.2	3560.2	3608.1	3650.7	3634.7	3666.8	3720.0	3810.6	3816.0
37.5°	3261.7	3256.3	3245.7	3235.1	3288.4	3299.0	3304.4	3325.6	3373.7	3448.2	3437.6
40°	2910.0	2915.2	2910.0	2888.5	2920.6	2963.3	2957.8	2968.7	3011.1	3064.4	3048.6
42.5°	2579.4	2579.4	2579.4	2558.2	2595.5	2616.9	2627.5	2622.1	2632.7	2680.8	2659.4
45°	2265.2	2270.4	2265.2	2259.7	2265.2	2275.8	2265.2	2259.7	2259.7	2275.8	2243.7
47.5°	1993.3	1993.3	1977.3	1961.3	1977.3	1982.5	1966.7	1950.7	1945.3	1940.0	1886.8
50°	1748.1	1742.7	1737.5	1710.9	1726.7	1732.1	1710.9	1700.1	1678.8	1652.2	1588.3
52.5°	1535.0	1529.6	1524.2	1497.6	1508.4	1513.6	1492.3	1470.9	1444.3	1423.0	1343.1
55°	1353.7	1348.3	1348.3	1332.5	1321.7	1332.5	1311.1	1295.0	1257.8	1231.1	1151.2
57.5°	1199.1	1199.1	1188.5	1172.4	1177.8	1177.8	1156.6	1135.2	1103.1	1071.3	1007.4
60°	1065.9	1065.9	1065.9	1049.8	1049.8	1049.8	1039.2	1018.0	991.4	959.3	895.4
62.5°	959.3	959.3	953.9	938.1	943.3	943.3	932.7	911.4	884.8	863.4	799.5
65°	874.0	874.0	874.0	858.1	858.1	863.4	852.7	831.5	810.1	783.4	724.7
67.5°	767.4	762.2	762.2	751.4	756.8	762.2	751.4	735.6	708.9	692.9	639.6
70°	634.2	639.6	644.8	629.0	634.2	634.2	629.0	613.0	596.9	580.9	533.0
72.5°	517.0	517.0	511.6	506.4	506.4	511.6	501.0	485.0	474.3	463.7	426.3
75°	394.4	389.0	394.4	383.8	383.8	383.8	373.0	367.8	362.4	346.3	319.7
77.5°	287.9	282.4	282.4	271.8	277.2	277.2	271.8	261.2	250.4	245.2	223.8
80°	197.1	197.1	197.1	191.9	191.9	186.5	186.5	181.3	170.5	165.3	154.6
82.5°	133.2	133.2	133.2	128.0	128.0	128.0	122.6	117.2	112.0	106.6	96.0
85°	85.3	85.3	85.3	79.9	79.9	79.9	74.5	74.5	69.3	63.9	53.3
87.5°	47.9	47.9	47.9	42.7	42.7	42.7	42.7	42.7	37.3	32.1	26.6
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°	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8
2.5°	5553.3	5478.8	5526.7	5526.7	5510.9	5553.3	5580.2	5601.4	5596.0	5548.1	5542.7
5°	5510.9	5446.7	5500.0	5505.4	5489.4	5548.1	5585.4	5612.0	5617.4	5574.8	5580.2
7.5°	5478.8	5425.5	5494.8	5516.1	5510.9	5564.1	5606.8	5649.3	5670.7	5638.7	5644.1
10°	5462.8	5420.1	5494.8	5526.7	5532.1	5590.8	5654.7	5713.4	5740.0	5718.6	5734.6
12.5°	5441.5	5414.9	5500.0	5548.1	5569.3	5628.0	5708.0	5777.3	5819.9	5809.3	5841.2
15°	5420.1	5398.9	5500.0	5569.3	5596.0	5649.3	5740.0	5841.2	5889.2	5883.8	5926.5
17.5°	5366.8	5361.6	5468.2	5542.7	5580.2	5644.1	5729.2	5851.8	5899.9	5910.5	5963.8
20°	5281.7	5281.7	5398.9	5478.8	5521.5	5580.2	5686.7	5803.9	5862.6	5873.2	5931.9
22.5°	5164.3	5174.9	5286.9	5366.8	5430.9	5473.4	5585.4	5708.0	5761.2	5777.3	5841.2
25°	5009.9	5020.5	5127.0	5207.0	5276.3	5324.2	5430.9	5542.7	5606.8	5622.6	5670.7
27.5°	4807.3	4828.6	4929.9	5009.9	5068.4	5100.4	5212.4	5329.6	5377.4	5393.5	5441.5
30°	4572.8	4578.2	4679.3	4748.7	4807.3	4834.0	4929.9	5052.5	5089.8	5105.8	5174.9
32.5°	4284.9	4279.7	4375.7	4439.6	4487.4	4519.5	4620.7	4700.8	4738.0	4764.7	4801.9
35°	3938.6	3933.2	4002.5	4077.2	4114.5	4125.1	4226.4	4311.6	4333.0	4354.2	4402.3
37.5°	3549.6	3549.6	3608.1	3645.5	3688.0	3704.0	3752.1	3848.0	3885.3	3879.9	3917.1
40°	3139.1	3117.9	3160.4	3197.8	3208.4	3213.6	3261.7	3336.2	3362.9	3362.9	3389.5
42.5°	2707.4	2675.4	2680.8	2702.0	2712.7	2675.4	2707.4	2755.3	2739.3	2760.7	2766.1
45°	2249.1	2201.1	2179.8	2131.7	2142.6	2105.1	2083.9	2094.5	2089.3	2036.0	2046.6
47.5°	1875.9	1790.8	1753.4	1684.2	1668.2	1625.6	1598.9	1550.8	1508.4	1508.4	1481.5
50°	1561.7	1476.3	1401.6	1321.7	1295.0	1257.8	1199.1	1135.2	1103.1	1071.3	1044.6
52.5°	1311.1	1220.5	1129.8	1044.6	1007.4	959.3	879.4	815.5	756.8	724.7	692.9
55°	1108.5	1007.4	911.4	820.7	772.8	724.7	644.8	570.3	501.0	458.3	431.7
57.5°	953.9	858.1	756.8	660.8	618.2	564.9	479.8	399.6	335.7	287.9	261.2
60°	842.1	746.2	655.6	554.3	511.6	458.3	367.8	293.1	229.2	186.5	154.6
62.5°	746.2	660.8	564.9	474.3	431.7	378.4	293.1	218.5	159.9	117.2	90.5
65°	676.9	591.5	511.6	421.1	383.8	330.5	250.4	181.3	128.0	90.5	63.9
67.5°	596.9	522.2	442.3	367.8	330.5	287.9	213.1	154.6	106.6	74.5	53.3
70°	501.0	442.3	373.0	303.9	277.2	239.8	175.9	128.0	85.3	58.7	42.7
72.5°	399.6	351.8	298.5	245.2	223.8	186.5	143.8	101.4	63.9	42.7	32.1
75°	303.9	266.4	223.8	186.5	165.3	143.8	106.6	74.5	47.9	32.1	21.2
77.5°	207.9	191.9	159.9	128.0	117.2	101.4	69.3	47.9	32.1	21.2	10.6
80°	143.8	128.0	106.6	85.3	74.5	63.9	42.7	32.1	16.0	10.6	5.4
82.5°	90.5	74.5	63.9	53.3	47.9	37.3	26.6	16.0	10.6	5.4	5.4
85°	47.9	42.7	37.3	26.6	26.6	21.2	16.0	10.6	5.4	0.0	0.0
87.5°	26.6	21.2	16.0	10.6	10.6	5.4	5.4	5.4	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°	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8
2.5°	5606.8	5606.8	5601.4	5665.3	5590.8	5665.3	5628.0	5665.3	5612.0	5606.8	5612.0
5°	5649.3	5665.3	5670.7	5729.2	5660.1	5750.6	5718.6	5750.6	5713.4	5724.0	5740.0
7.5°	5734.6	5761.2	5756.0	5830.6	5761.2	5862.6	5841.2	5889.2	5851.8	5862.6	5883.8
10°	5830.6	5862.6	5867.8	5942.5	5878.4	6001.0	5974.4	6027.7	5995.8	6011.8	6038.5
12.5°	5942.5	5979.8	5985.2	6070.3	6001.0	6129.0	6113.0	6166.3	6139.6	6155.7	6187.7
15°	6027.7	6080.9	6091.8	6176.9	6102.4	6235.6	6225.0	6294.3	6251.6	6278.3	6304.9
17.5°	6070.3	6118.4	6139.6	6219.6	6155.7	6288.9	6278.3	6336.9	6304.9	6331.5	6363.6
20°	6043.7	6102.4	6118.4	6198.3	6134.4	6267.6	6251.6	6310.3	6278.3	6299.5	6331.5
22.5°	5947.7	6006.4	6027.7	6102.4	6043.7	6166.3	6161.1	6214.4	6171.7	6198.3	6225.0
25°	5777.3	5841.2	5851.8	5921.1	5857.2	5985.2	5974.4	6033.1	6001.0	6017.0	6054.3
27.5°	5532.1	5606.8	5622.6	5681.3	5633.4	5740.0	5740.0	5787.9	5750.6	5750.6	5787.9
30°	5239.0	5313.5	5324.2	5372.2	5329.6	5425.5	5430.9	5478.8	5420.1	5452.2	5457.6
32.5°	4881.9	4929.9	4961.8	5004.5	4940.6	5063.1	5047.1	5084.4	5052.5	5052.5	5079.2
35°	4450.2	4508.9	4524.9	4578.2	4524.9	4620.7	4620.7	4642.1	4610.0	4610.0	4652.7
37.5°	3981.2	4023.9	4029.1	4082.4	4039.7	4119.7	4114.5	4130.5	4098.4	4119.7	4119.7
40°	3432.2	3464.2	3474.9	3501.5	3496.3	3554.8	3549.6	3560.2	3544.2	3549.6	3560.2
42.5°	2792.8	2835.3	2856.7	2877.9	2846.1	2926.0	2910.0	2926.0	2920.6	2926.0	2942.0
45°	2057.2	2089.3	2105.1	2110.5	2099.9	2147.8	2185.0	2153.2	2158.4	2147.8	2169.2
47.5°	1486.9	1492.3	1481.5	1513.6	1486.9	1508.4	1519.0	1524.2	1492.3	1486.9	1508.4
50°	1018.0	1044.6	1007.4	1023.2	1018.0	1039.2	1028.6	1034.0	1002.0	1018.0	1007.4
52.5°	676.9	671.5	660.8	666.2	655.6	655.6	655.6	666.2	644.8	634.2	623.6
55°	410.4	399.6	378.4	373.0	373.0	378.4	367.8	357.2	357.2	351.8	351.8
57.5°	239.8	223.8	213.1	207.9	197.1	191.9	186.5	186.5	175.9	175.9	175.9
60°	133.2	117.2	106.6	96.0	96.0	90.5	85.3	79.9	79.9	79.9	74.5
62.5°	69.3	58.7	47.9	42.7	42.7	37.3	32.1	32.1	32.1	32.1	26.6
65°	47.9	37.3	32.1	26.6	26.6	21.2	21.2	21.2	21.2	21.2	21.2
67.5°	37.3	32.1	26.6	21.2	21.2	21.2	16.0	16.0	16.0	16.0	16.0
70°	32.1	21.2	21.2	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
72.5°	21.2	21.2	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
75°	16.0	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	0.0	0.0	0.0	0.0	0.0
80°	5.4	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: P684769

CATALOG NUMBER: LX6C100D010 EX61009027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8	5574.8
2.5°	5660.1	5654.7	5660.1	5670.7	5649.3	5713.4	5681.3	5713.4
5°	5782.7	5787.9	5793.3	5809.3	5782.7	5862.6	5819.9	5867.8
7.5°	5942.5	5947.7	5953.1	5969.2	5953.1	6033.1	5985.2	6027.7
10°	6107.8	6118.4	6118.4	6145.0	6129.0	6203.5	6171.7	6225.0
12.5°	6262.2	6272.8	6283.7	6299.5	6288.9	6368.8	6342.2	6384.8
15°	6384.8	6406.1	6411.5	6432.7	6422.1	6507.4	6475.4	6518.0
17.5°	6443.5	6464.7	6464.7	6491.4	6480.8	6571.3	6528.6	6576.7
20°	6411.5	6427.5	6432.7	6459.5	6448.7	6539.5	6496.8	6555.3
22.5°	6310.3	6315.5	6320.9	6347.6	6342.2	6422.1	6384.8	6422.1
25°	6123.6	6139.6	6134.4	6155.7	6155.7	6219.6	6176.9	6208.9
27.5°	5857.2	5873.2	5873.2	5899.9	5878.4	5942.5	5899.9	5947.7
30°	5532.1	5548.1	5537.5	5558.7	5537.5	5601.4	5569.3	5585.4
32.5°	5143.1	5143.1	5148.3	5153.7	5143.1	5201.6	5169.7	5201.6
35°	4679.3	4690.0	4695.4	4700.8	4690.0	4732.6	4695.4	4716.6
37.5°	4157.1	4183.8	4178.4	4183.8	4167.7	4221.0	4189.0	4199.8
40°	3597.4	3597.4	3592.0	3602.9	3586.8	3629.5	3608.1	3618.7
42.5°	2947.2	2963.3	2942.0	2968.7	2926.0	2984.5	2963.3	2947.2
45°	2211.9	2190.4	2185.0	2190.4	2174.4	2179.8	2195.8	2185.0
47.5°	1508.4	1508.4	1497.6	1481.5	1503.0	1508.4	1486.9	1486.9
50°	1012.6	1012.6	1002.0	996.6	1007.4	1002.0	991.4	1007.4
52.5°	644.8	623.6	623.6	634.2	623.6	613.0	629.0	618.2
55°	351.8	341.1	341.1	351.8	341.1	341.1	335.7	346.3
57.5°	170.5	175.9	170.5	170.5	170.5	170.5	165.3	170.5
60°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
62.5°	32.1	32.1	26.6	26.6	26.6	26.6	26.6	26.6
65°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
67.5°	16.0	16.0	16.0	16.0	16.0	21.2	16.0	16.0
70°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
72.5°	16.0	16.0	21.2	21.2	21.2	21.2	21.2	21.2
75°	10.6	10.6	10.6	5.4	5.4	5.4	5.4	5.4
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)