

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: P684028

Luminaire Tested: **LX6C130D010 EX6C1309727 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684028
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: LX6C130D010 EX6C1309727 6LCSWH
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

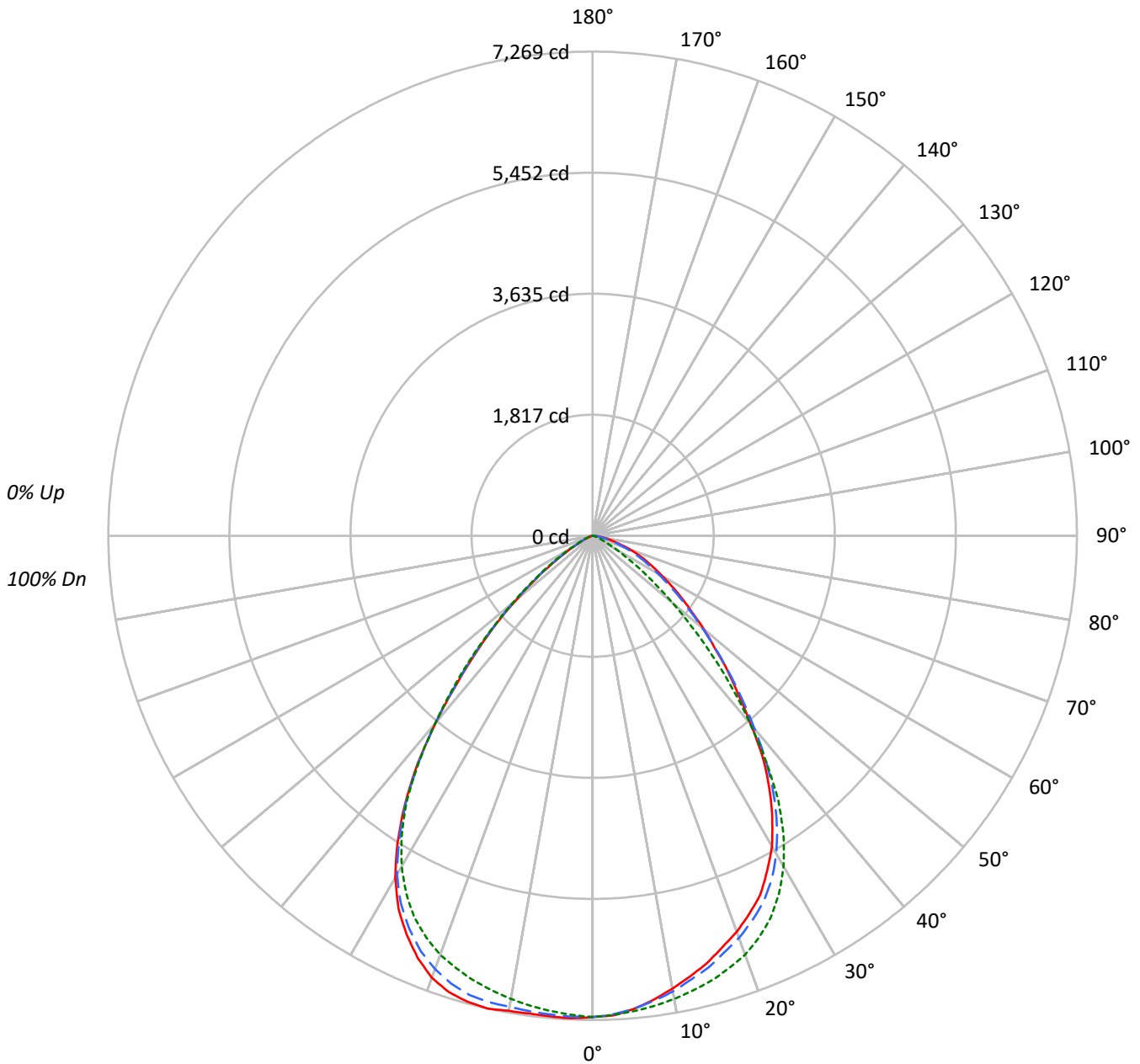
Lumens per Lamp: N/A
Luminaire Lumens: 12122.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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									
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	396109	396109	396109
5°	392328	394243	398579
10°	384245	392973	403188
15°	376892	392238	411069
20°	369078	390459	411840
25°	359984	382673	399561
30°	340831	362917	375064
35°	309519	325286	328204
40°	264166	262900	261655
45°	221891	196858	190779
50°	185324	133215	126529
55°	155971	81737	74234
60°	132040	43067	37311
65°	114331	22648	18095
70°	95096	13993	9777
75°	70278	9235	5571
80°	55121	5493	2810
85°	43966	5598	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.0	5.6
10°-20°	1949.8	16.1
20°-30°	2879.1	23.8
30°-40°	2967.2	24.5
40°-50°	2049.4	16.9
50°-60°	1010.2	8.3
60°-70°	409.3	3.4
70°-80°	145.9	1.2
80°-90°	30.2	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°	5509.9	45.5
0°-40°	8477.1	69.9
0°-60°	11536.6	95.2
0°-90°	12122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12122.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7226	7226	7226	7226	7226	
5°	7129	7129	7164	7217	7243	673
15°	6641	6711	6911	7138	7243	1870
25°	5951	6065	6326	6510	6606	2721
35°	4625	4738	4861	4887	4904	2866
45°	2862	2880	2539	2504	2461	2212
55°	1632	1571	855	803	777	1474
65°	881	794	175	140	140	875
75°	332	279	44	26	26	372
85°	70	52	9	0	0	85
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°	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6
2.5°	7207.9	7181.9	7199.3	7164.2	7207.9	7164.2	7173.1	7181.9	7173.1	7181.9	7190.5
5°	7129.4	7103.2	7129.4	7085.8	7129.4	7103.2	7103.2	7112.0	7112.0	7120.6	7129.4
7.5°	7024.8	6998.5	7024.8	6981.1	7033.3	7007.4	7007.4	7024.8	7015.9	7024.8	7042.2
10°	6902.7	6867.6	6893.8	6867.6	6920.1	6885.0	6902.7	6902.7	6902.7	6928.6	6946.3
12.5°	6771.8	6736.6	6771.8	6728.1	6780.3	6754.4	6762.9	6789.1	6797.7	6815.4	6823.9
15°	6640.8	6597.2	6614.6	6588.3	6640.8	6614.6	6623.4	6658.2	6658.2	6684.5	6710.7
17.5°	6475.1	6440.0	6475.1	6440.0	6483.6	6466.2	6483.6	6509.9	6509.9	6536.1	6562.1
20°	6326.5	6291.7	6317.9	6291.7	6344.2	6317.9	6326.5	6361.6	6370.1	6396.3	6422.6
22.5°	6143.3	6117.1	6134.5	6108.6	6160.7	6143.3	6152.2	6187.0	6195.8	6213.2	6256.9
25°	5951.4	5898.9	5925.1	5907.7	5960.2	5934.0	5951.4	5986.2	6003.9	6029.8	6064.9
27.5°	5672.1	5645.9	5663.3	5663.3	5706.9	5681.0	5689.5	5724.6	5750.5	5776.8	5820.4
30°	5384.3	5340.7	5358.1	5366.6	5401.7	5384.3	5401.7	5436.5	5445.4	5480.1	5514.9
32.5°	5017.8	5000.1	5035.2	5017.8	5035.2	5035.2	5043.7	5070.0	5087.3	5105.1	5148.7
35°	4625.0	4590.2	4625.0	4607.6	4651.2	4625.0	4651.2	4677.5	4677.5	4712.3	4738.5
37.5°	4197.4	4153.8	4171.1	4171.1	4188.5	4180.0	4180.0	4223.7	4232.2	4258.4	4284.7
40°	3691.4	3673.7	3708.8	3699.9	3708.8	3708.8	3717.3	3743.6	3761.0	3769.8	3778.7
42.5°	3237.6	3246.1	3254.9	3254.9	3254.9	3254.9	3254.9	3289.7	3281.2	3307.4	3316.0
45°	2862.1	2827.4	2844.8	2836.2	2862.1	2836.2	2862.1	2888.4	2871.0	2897.3	2879.5
47.5°	2478.2	2478.2	2478.2	2469.7	2487.1	2478.2	2495.6	2504.5	2504.5	2504.5	2495.6
50°	2173.0	2146.8	2155.3	2155.3	2164.2	2155.3	2173.0	2181.6	2181.6	2164.2	2129.4
52.5°	1876.0	1867.5	1867.5	1884.9	1884.9	1876.0	1876.0	1876.0	1876.0	1850.1	1832.4
55°	1631.9	1614.5	1623.0	1623.0	1623.0	1623.0	1631.9	1623.0	1623.0	1596.8	1570.9
57.5°	1413.7	1396.3	1396.3	1396.3	1404.8	1396.3	1396.3	1396.3	1387.4	1361.2	1326.4
60°	1204.3	1195.5	1204.3	1204.3	1212.9	1204.3	1204.3	1204.3	1186.9	1160.7	1125.6
62.5°	1029.7	1029.7	1029.7	1038.3	1038.3	1029.7	1029.7	1020.9	1012.4	977.2	942.5
65°	881.4	872.6	881.4	881.4	889.9	889.9	881.4	872.6	864.0	828.9	794.1
67.5°	733.1	724.2	733.1	733.1	741.6	733.1	733.1	733.1	706.8	689.4	654.3
70°	593.3	584.8	584.8	584.8	593.3	575.9	584.8	584.8	567.4	541.1	506.0
72.5°	453.8	453.8	453.8	453.8	453.8	453.8	445.0	445.0	427.6	401.3	383.9
75°	331.8	331.8	340.3	340.3	331.8	331.8	331.8	322.9	314.0	296.6	279.3
77.5°	244.5	244.5	244.5	244.5	235.6	235.6	235.6	226.8	218.2	209.4	192.0
80°	174.6	174.6	174.6	165.7	174.6	165.7	165.7	165.7	148.3	139.5	130.9
82.5°	122.1	113.5	113.5	113.5	113.5	113.5	113.5	104.7	104.7	96.1	87.3
85°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	61.0	52.5	52.5
87.5°	34.8	43.6	43.6	43.6	43.6	43.6	43.6	34.8	34.8	34.8	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°	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6
2.5°	7190.5	7190.5	7207.9	7181.9	7225.6	7199.3	7190.5	7234.1	7207.9	7199.3	7216.7
5°	7129.4	7138.3	7146.8	7129.4	7173.1	7146.8	7146.8	7190.5	7173.1	7164.2	7190.5
7.5°	7051.0	7059.5	7076.9	7068.4	7103.2	7085.8	7094.7	7138.3	7120.6	7120.6	7146.8
10°	6954.9	6972.3	6990.0	6990.0	7033.3	7015.9	7015.9	7068.4	7051.0	7059.5	7094.7
12.5°	6841.3	6867.6	6893.8	6902.7	6946.3	6920.1	6928.6	6990.0	6981.1	6990.0	7024.8
15°	6719.3	6754.4	6780.3	6780.3	6832.8	6806.5	6832.8	6893.8	6876.4	6911.2	6954.9
17.5°	6579.8	6614.6	6649.4	6658.2	6710.7	6693.0	6728.1	6789.1	6789.1	6806.5	6859.0
20°	6448.9	6492.5	6509.9	6536.1	6588.3	6579.8	6597.2	6667.1	6667.1	6693.0	6745.5
22.5°	6274.3	6317.9	6352.7	6379.0	6422.6	6422.6	6448.9	6509.9	6509.9	6527.3	6579.8
25°	6082.3	6134.5	6160.7	6187.0	6230.6	6221.8	6248.0	6300.5	6309.1	6326.5	6379.0
27.5°	5837.8	5881.5	5916.6	5934.0	5995.0	5960.2	5986.2	6047.5	6038.7	6056.1	6099.7
30°	5532.7	5576.3	5611.1	5611.1	5663.3	5663.3	5689.5	5715.8	5715.8	5733.2	5768.3
32.5°	5174.6	5227.1	5227.1	5253.4	5288.2	5253.4	5288.2	5323.0	5305.6	5331.8	5358.1
35°	4764.4	4790.7	4799.6	4799.6	4825.8	4817.0	4808.1	4834.3	4817.0	4860.6	4886.8
37.5°	4267.3	4302.1	4284.7	4302.1	4293.2	4267.3	4267.3	4310.9	4275.8	4284.7	4310.9
40°	3787.2	3787.2	3778.7	3735.0	3743.6	3717.3	3708.8	3717.3	3682.5	3673.7	3708.8
42.5°	3289.7	3281.2	3254.9	3193.9	3202.4	3158.8	3124.0	3124.0	3106.6	3097.8	3106.6
45°	2844.8	2818.5	2774.9	2705.3	2687.6	2652.8	2582.9	2565.5	2539.2	2539.2	2548.1
47.5°	2434.6	2399.8	2329.9	2251.5	2207.8	2164.2	2094.3	2068.0	2024.4	2007.0	2024.4
50°	2094.3	2033.2	1945.9	1832.4	1788.8	1736.6	1666.7	1623.0	1579.4	1562.0	1553.1
52.5°	1780.2	1692.9	1605.7	1466.2	1431.1	1378.9	1282.7	1239.1	1195.5	1160.7	1160.7
55°	1509.5	1431.1	1309.0	1178.1	1125.6	1073.4	977.2	916.2	872.6	855.2	837.8
57.5°	1265.4	1178.1	1064.5	925.1	872.6	820.4	724.2	663.2	619.6	593.3	575.9
60°	1064.5	968.7	855.2	733.1	672.1	619.6	523.7	462.4	418.7	392.8	375.1
62.5°	872.6	794.1	680.6	567.4	514.9	462.4	383.9	322.9	279.3	261.9	235.6
65°	733.1	654.3	549.7	453.8	410.2	357.7	288.1	235.6	200.8	174.6	157.2
67.5°	593.3	532.3	445.0	357.7	314.0	279.3	218.2	174.6	139.5	122.1	113.5
70°	471.2	410.2	340.3	270.4	244.5	209.4	165.7	122.1	104.7	87.3	78.4
72.5°	349.2	305.5	253.0	200.8	174.6	157.2	113.5	96.1	69.9	61.0	52.5
75°	253.0	218.2	183.1	139.5	122.1	113.5	87.3	61.0	52.5	43.6	34.8
77.5°	174.6	157.2	122.1	96.1	87.3	78.4	61.0	43.6	34.8	26.3	26.3
80°	113.5	96.1	78.4	61.0	61.0	52.5	34.8	26.3	26.3	17.4	17.4
82.5°	69.9	61.0	52.5	43.6	34.8	34.8	26.3	17.4	17.4	8.9	8.9
85°	43.6	34.8	26.3	26.3	17.4	17.4	17.4	8.9	8.9	8.9	8.9
87.5°	17.4	17.4	17.4	8.9	8.9	8.9	8.9	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°	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6
2.5°	7216.7	7216.7	7234.1	7207.9	7225.6	7225.6	7243.0	7207.9	7225.6	7234.1	7251.5
5°	7181.9	7190.5	7207.9	7199.3	7207.9	7207.9	7225.6	7181.9	7216.7	7216.7	7243.0
7.5°	7146.8	7146.8	7164.2	7155.7	7173.1	7181.9	7199.3	7164.2	7199.3	7199.3	7225.6
10°	7103.2	7103.2	7129.4	7120.6	7146.8	7155.7	7181.9	7146.8	7181.9	7190.5	7216.7
12.5°	7042.2	7051.0	7076.9	7076.9	7103.2	7120.6	7146.8	7129.4	7173.1	7181.9	7216.7
15°	6972.3	6990.0	7024.8	7015.9	7042.2	7068.4	7103.2	7076.9	7138.3	7155.7	7190.5
17.5°	6885.0	6902.7	6928.6	6928.6	6954.9	6972.3	7015.9	6998.5	7051.0	7059.5	7103.2
20°	6754.4	6780.3	6815.4	6806.5	6832.8	6850.2	6885.0	6867.6	6920.1	6937.5	6981.1
22.5°	6597.2	6614.6	6640.8	6640.8	6667.1	6684.5	6719.3	6693.0	6745.5	6754.4	6789.1
25°	6387.8	6405.2	6422.6	6431.5	6457.4	6466.2	6483.6	6466.2	6509.9	6518.7	6562.1
27.5°	6117.1	6126.0	6152.2	6152.2	6169.6	6178.1	6204.4	6169.6	6230.6	6230.6	6256.9
30°	5794.2	5785.7	5820.4	5803.0	5820.4	5820.4	5846.7	5829.3	5872.9	5855.6	5881.5
32.5°	5366.6	5384.3	5384.3	5366.6	5401.7	5392.9	5392.9	5375.5	5401.7	5410.3	5427.6
35°	4869.5	4895.4	4895.4	4904.2	4913.1	4886.8	4895.4	4843.2	4886.8	4895.4	4904.2
37.5°	4328.3	4302.1	4319.5	4293.2	4336.9	4284.7	4284.7	4249.9	4284.7	4284.7	4293.2
40°	3708.8	3699.9	3717.3	3699.9	3691.4	3682.5	3665.1	3638.9	3673.7	3656.3	3682.5
42.5°	3124.0	3115.2	3115.2	3097.8	3089.2	3089.2	3071.8	3054.1	3045.6	3045.6	3089.2
45°	2521.9	2539.2	2521.9	2513.3	2530.7	2513.3	2521.9	2487.1	2504.5	2487.1	2504.5
47.5°	2015.8	2024.4	2007.0	1989.6	2015.8	1989.6	1989.6	1963.3	1998.4	1998.4	1980.7
50°	1562.0	1553.1	1535.8	1553.1	1544.6	1544.6	1544.6	1518.4	1535.8	1509.5	1527.2
52.5°	1151.8	1143.3	1143.3	1134.4	1143.3	1134.4	1134.4	1125.6	1125.6	1117.0	1125.6
55°	837.8	828.9	811.5	811.5	811.5	820.4	811.5	803.0	803.0	794.1	803.0
57.5°	567.4	549.7	549.7	549.7	549.7	541.1	541.1	532.3	541.1	532.3	541.1
60°	366.5	366.5	349.2	349.2	349.2	349.2	349.2	340.3	349.2	349.2	349.2
62.5°	226.8	226.8	218.2	209.4	218.2	209.4	209.4	209.4	218.2	209.4	218.2
65°	148.3	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
67.5°	104.7	96.1	96.1	96.1	96.1	96.1	96.1	87.3	96.1	96.1	96.1
70°	69.9	69.9	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
72.5°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
75°	34.8	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
77.5°	26.3	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
80°	17.4	17.4	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
85°	8.9	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	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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: P684028

CATALOG NUMBER: LX6C130D010 EX6C1309727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6	7225.6
2.5°	7225.6	7234.1	7216.7	7225.6	7207.9	7225.6	7234.1	7251.5
5°	7207.9	7216.7	7199.3	7216.7	7199.3	7216.7	7225.6	7243.0
7.5°	7190.5	7207.9	7190.5	7207.9	7190.5	7207.9	7216.7	7234.1
10°	7190.5	7216.7	7199.3	7225.6	7199.3	7216.7	7234.1	7243.0
12.5°	7190.5	7216.7	7207.9	7225.6	7216.7	7234.1	7251.5	7268.9
15°	7173.1	7199.3	7181.9	7207.9	7199.3	7207.9	7243.0	7243.0
17.5°	7076.9	7103.2	7103.2	7120.6	7120.6	7146.8	7164.2	7181.9
20°	6954.9	6981.1	6972.3	6998.5	6998.5	7024.8	7042.2	7059.5
22.5°	6771.8	6806.5	6797.7	6823.9	6815.4	6832.8	6867.6	6859.0
25°	6536.1	6579.8	6570.9	6588.3	6579.8	6579.8	6597.2	6605.7
27.5°	6248.0	6274.3	6265.4	6283.1	6265.4	6283.1	6300.5	6309.1
30°	5872.9	5890.3	5881.5	5890.3	5881.5	5898.9	5907.7	5925.1
32.5°	5419.1	5445.4	5419.1	5436.5	5427.6	5427.6	5462.8	5445.4
35°	4878.0	4886.8	4895.4	4895.4	4878.0	4886.8	4904.2	4904.2
37.5°	4275.8	4319.5	4267.3	4293.2	4284.7	4284.7	4284.7	4310.9
40°	3647.7	3656.3	3638.9	3638.9	3638.9	3630.0	3665.1	3656.3
42.5°	3054.1	3063.0	3054.1	3028.2	3036.7	3036.7	3063.0	3028.2
45°	2478.2	2495.6	2487.1	2487.1	2469.7	2469.7	2478.2	2460.8
47.5°	1963.3	1980.7	1954.8	1963.3	1945.9	1963.3	1954.8	1972.2
50°	1492.1	1509.5	1501.0	1509.5	1509.5	1492.1	1518.4	1483.6
52.5°	1117.0	1125.6	1117.0	1108.2	1099.6	1099.6	1117.0	1108.2
55°	794.1	785.3	785.3	785.3	794.1	794.1	785.3	776.7
57.5°	532.3	532.3	523.7	523.7	532.3	514.9	523.7	514.9
60°	340.3	340.3	340.3	340.3	331.8	340.3	340.3	340.3
62.5°	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4
65°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
67.5°	87.3	96.1	96.1	96.1	87.3	87.3	87.3	87.3
70°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
72.5°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
75°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
77.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
80°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
82.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	8.9	8.9	8.9	8.9	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)