

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: P685210

Luminaire Tested: **LX6C75D010 EX6759050 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685210
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: LX6C75D010 EX6759050 6LCSWLI
Description: 6 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

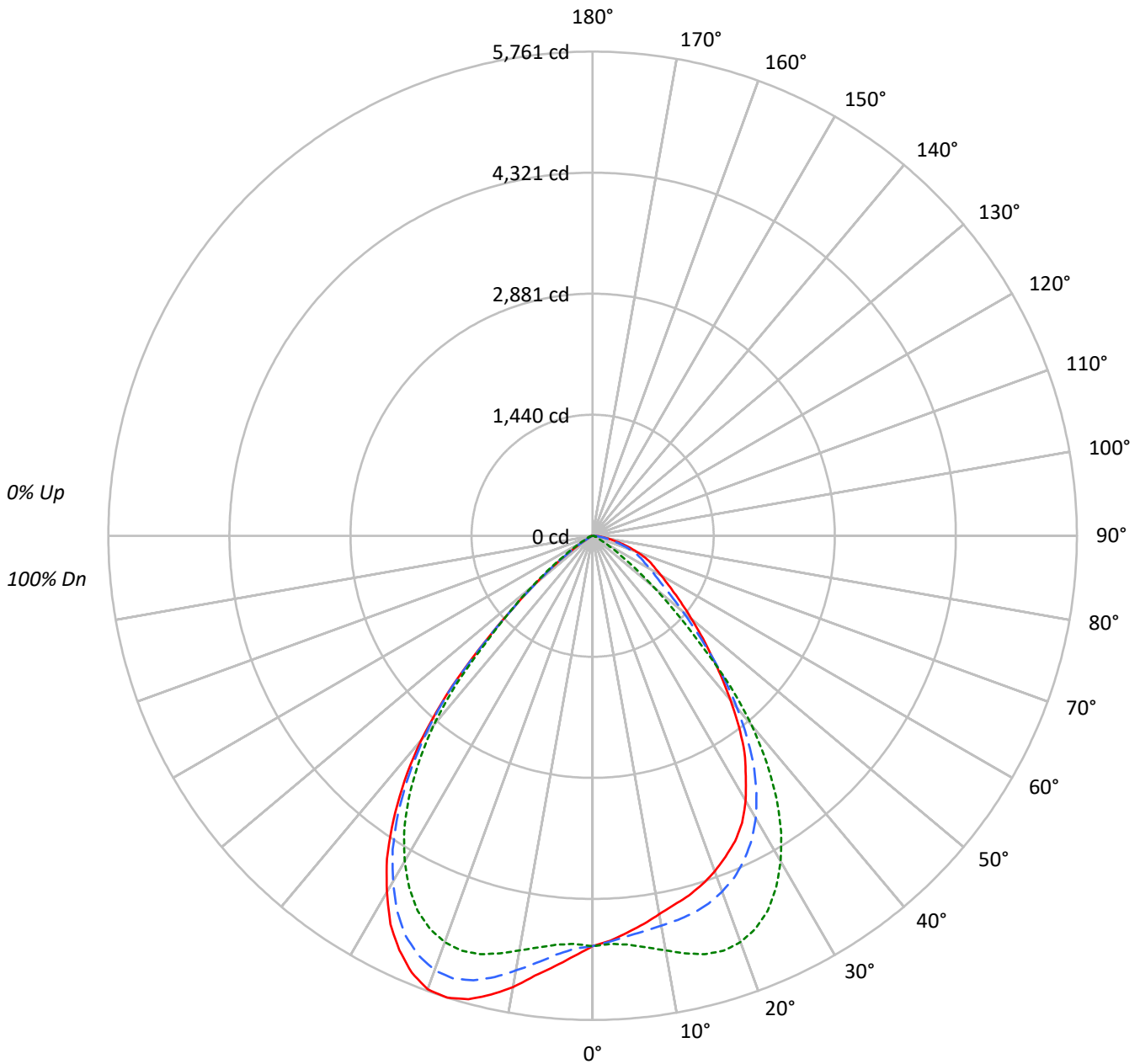
Lumens per Lamp: N/A
Luminaire Lumens: 8926.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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	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°	267698	267698	267698
5°	260758	268720	282847
10°	254415	278841	303535
15°	251443	292510	324037
20°	247833	300134	334991
25°	242572	297912	328979
30°	230510	283113	309700
35°	210888	255251	276493
40°	182413	210802	226839
45°	153830	138262	148387
50°	130597	80031	75256
55°	113334	38374	28998
60°	102371	17915	7160
65°	99310	10286	2413
70°	89037	8239	2244
75°	73180	5952	996
80°	54521	2936	0
85°	46986	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	5.3
10°-20°	1437.5	16.1
20°-30°	2196.4	24.6
30°-40°	2297.2	25.7
40°-50°	1490.2	16.7
50°-60°	591.7	6.6
60°-70°	280.7	3.1
70°-80°	133.5	1.5
80°-90°	27.2	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°	4105.5	46.0
0°-40°	6402.7	71.7
0°-60°	8484.6	95.1
0°-90°	8926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8926.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4883	4883	4883	4883	4883	
5°	4738	4781	4883	5005	5140	447
15°	4430	4645	5154	5476	5710	1249
25°	4010	4262	4925	5257	5439	1836
35°	3151	3343	3814	4038	4132	1949
45°	1984	1965	1783	1891	1914	1544
55°	1186	1008	402	313	303	1074
65°	766	635	79	19	19	748
75°	346	280	28	9	5	373
85°	75	47	0	0	0	87
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°	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2
2.5°	4822.5	4831.8	4780.6	4766.6	4803.9	4817.8	4822.5	4808.5	4813.2	4831.8	4831.8
5°	4738.5	4747.8	4701.1	4687.1	4724.4	4733.9	4747.8	4743.2	4757.3	4785.2	4780.6
7.5°	4659.2	4673.2	4621.8	4603.2	4649.9	4673.2	4682.5	4682.5	4701.1	4738.5	4743.2
10°	4570.4	4589.2	4542.5	4533.0	4584.4	4607.8	4612.5	4621.8	4649.9	4701.1	4710.4
12.5°	4495.8	4514.4	4481.8	4467.7	4523.7	4547.0	4556.3	4575.1	4607.8	4673.2	4682.5
15°	4430.4	4444.4	4407.0	4397.7	4453.7	4481.8	4486.3	4514.4	4556.3	4631.1	4645.1
17.5°	4346.3	4355.6	4327.7	4318.4	4374.4	4402.3	4407.0	4439.7	4491.1	4565.8	4589.2
20°	4248.2	4257.7	4229.6	4220.3	4276.3	4308.9	4313.7	4341.8	4402.3	4481.8	4505.1
22.5°	4131.5	4150.3	4117.7	4108.2	4164.4	4192.3	4206.3	4229.6	4290.3	4369.6	4402.3
25°	4010.3	4010.3	3987.0	3982.2	4033.6	4066.3	4061.5	4094.2	4154.9	4234.4	4262.3
27.5°	3851.5	3846.8	3823.4	3818.9	3874.8	3902.9	3893.4	3926.2	3982.2	4061.5	4089.6
30°	3641.5	3650.8	3618.1	3608.6	3655.5	3702.2	3697.4	3730.1	3786.0	3860.8	3879.6
32.5°	3389.3	3398.6	3394.1	3380.0	3422.0	3445.3	3459.3	3482.7	3529.3	3608.6	3627.4
35°	3151.2	3137.2	3118.6	3118.6	3160.5	3197.9	3183.8	3211.9	3258.6	3337.9	3342.6
37.5°	2857.1	2852.4	2843.1	2833.8	2880.5	2889.8	2894.5	2913.1	2955.2	3020.5	3011.2
40°	2549.0	2553.6	2549.0	2530.2	2558.3	2595.7	2590.9	2600.4	2637.6	2684.3	2670.4
42.5°	2259.5	2259.5	2259.5	2240.9	2273.5	2292.3	2301.6	2296.9	2306.2	2348.3	2329.5
45°	1984.2	1988.7	1984.2	1979.4	1984.2	1993.5	1984.2	1979.4	1979.4	1993.5	1965.4
47.5°	1746.1	1746.1	1732.0	1718.0	1732.0	1736.6	1722.7	1708.7	1704.0	1699.4	1652.7
50°	1531.3	1526.6	1522.0	1498.7	1512.5	1517.3	1498.7	1489.2	1470.6	1447.3	1391.3
52.5°	1344.6	1339.9	1335.1	1311.8	1321.3	1325.8	1307.2	1288.5	1265.1	1246.5	1176.5
55°	1185.8	1181.1	1181.1	1167.2	1157.7	1167.2	1148.4	1134.4	1101.8	1078.4	1008.4
57.5°	1050.3	1050.3	1041.0	1027.0	1031.7	1031.7	1013.1	994.4	966.3	938.4	882.4
60°	933.7	933.7	933.7	919.6	919.6	919.6	910.3	891.7	868.4	840.3	784.3
62.5°	840.3	840.3	835.6	821.7	826.3	826.3	817.0	798.4	775.0	756.3	700.3
65°	765.6	765.6	765.6	751.7	751.7	756.3	747.0	728.4	709.6	686.3	634.8
67.5°	672.2	667.7	667.7	658.2	662.9	667.7	658.2	644.3	621.0	606.9	560.3
70°	555.5	560.3	564.8	551.0	555.5	555.5	551.0	536.9	522.9	508.9	466.9
72.5°	452.9	452.9	448.1	443.6	443.6	448.1	438.8	424.8	415.5	406.2	373.4
75°	345.5	340.8	345.5	336.2	336.2	336.2	326.7	322.2	317.4	303.4	280.0
77.5°	252.1	247.4	247.4	238.1	242.8	242.8	238.1	228.8	219.3	214.8	196.0
80°	172.7	172.7	172.7	168.1	168.1	163.4	163.4	158.8	149.3	144.8	135.5
82.5°	116.7	116.7	116.7	112.1	112.1	112.1	107.4	102.6	98.1	93.3	84.0
85°	74.7	74.7	74.7	70.0	70.0	70.0	65.3	65.3	60.7	56.0	46.7
87.5°	41.9	41.9	41.9	37.4	37.4	37.4	37.4	37.4	32.6	28.1	23.3
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°	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2
2.5°	4864.5	4799.2	4841.1	4841.1	4827.3	4864.5	4888.0	4906.6	4901.8	4859.9	4855.2
5°	4827.3	4771.1	4817.8	4822.5	4808.5	4859.9	4892.5	4915.9	4920.6	4883.2	4888.0
7.5°	4799.2	4752.5	4813.2	4831.8	4827.3	4873.9	4911.3	4948.5	4967.3	4939.2	4944.0
10°	4785.2	4747.8	4813.2	4841.1	4845.9	4897.3	4953.3	5004.7	5028.0	5009.2	5023.3
12.5°	4766.6	4743.2	4817.8	4859.9	4878.5	4929.9	4999.9	5060.6	5098.0	5088.7	5116.6
15°	4747.8	4729.2	4817.8	4878.5	4901.8	4948.5	5028.0	5116.6	5158.7	5154.0	5191.4
17.5°	4701.1	4696.5	4789.9	4855.2	4888.0	4944.0	5018.5	5125.9	5168.0	5177.3	5224.0
20°	4626.5	4626.5	4729.2	4799.2	4836.6	4888.0	4981.3	5084.0	5135.4	5144.7	5196.1
22.5°	4523.7	4533.0	4631.1	4701.1	4757.3	4794.5	4892.5	4999.9	5046.6	5060.6	5116.6
25°	4388.4	4397.7	4491.1	4561.1	4621.8	4663.7	4757.3	4855.2	4911.3	4925.2	4967.3
27.5°	4211.0	4229.6	4318.4	4388.4	4439.7	4467.7	4565.8	4668.5	4710.4	4724.4	4766.6
30°	4005.6	4010.3	4098.9	4159.6	4211.0	4234.4	4318.4	4425.8	4458.4	4472.5	4533.0
32.5°	3753.4	3748.8	3832.9	3888.9	3930.8	3958.9	4047.5	4117.7	4150.3	4173.7	4206.3
35°	3450.0	3445.3	3506.0	3571.5	3604.1	3613.4	3702.2	3776.7	3795.5	3814.1	3856.2
37.5°	3109.3	3109.3	3160.5	3193.3	3230.5	3244.6	3286.7	3370.7	3403.4	3398.6	3431.3
40°	2749.7	2731.1	2768.3	2801.2	2810.5	2815.0	2857.1	2922.4	2945.7	2945.7	2969.1
42.5°	2371.6	2343.5	2348.3	2366.9	2376.2	2343.5	2371.6	2413.5	2399.5	2418.3	2423.0
45°	1970.1	1928.0	1909.4	1867.3	1876.8	1844.0	1825.4	1834.7	1830.1	1783.4	1792.7
47.5°	1643.2	1568.7	1535.9	1475.3	1461.3	1423.9	1400.6	1358.5	1321.3	1321.3	1297.8
50°	1367.9	1293.2	1227.7	1157.7	1134.4	1101.8	1050.3	994.4	966.3	938.4	915.1
52.5°	1148.4	1069.1	989.6	915.1	882.4	840.3	770.3	714.3	662.9	634.8	606.9
55°	971.0	882.4	798.4	718.9	677.0	634.8	564.8	499.6	438.8	401.5	378.1
57.5°	835.6	751.7	662.9	578.9	541.5	494.8	420.2	350.1	294.1	252.1	228.8
60°	737.7	653.6	574.3	485.5	448.1	401.5	322.2	256.7	200.7	163.4	135.5
62.5°	653.6	578.9	494.8	415.5	378.1	331.5	256.7	191.4	140.0	102.6	79.3
65°	592.9	518.2	448.1	368.8	336.2	289.5	219.3	158.8	112.1	79.3	56.0
67.5°	522.9	457.4	387.4	322.2	289.5	252.1	186.7	135.5	93.3	65.3	46.7
70°	438.8	387.4	326.7	266.2	242.8	210.0	154.1	112.1	74.7	51.4	37.4
72.5°	350.1	308.1	261.4	214.8	196.0	163.4	126.0	88.8	56.0	37.4	28.1
75°	266.2	233.4	196.0	163.4	144.8	126.0	93.3	65.3	41.9	28.1	18.6
77.5°	182.1	168.1	140.0	112.1	102.6	88.8	60.7	41.9	28.1	18.6	9.3
80°	126.0	112.1	93.3	74.7	65.3	56.0	37.4	28.1	14.0	9.3	4.7
82.5°	79.3	65.3	56.0	46.7	41.9	32.6	23.3	14.0	9.3	4.7	4.7
85°	41.9	37.4	32.6	23.3	23.3	18.6	14.0	9.3	4.7	0.0	0.0
87.5°	23.3	18.6	14.0	9.3	9.3	4.7	4.7	4.7	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°	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2
2.5°	4911.3	4911.3	4906.6	4962.6	4897.3	4962.6	4929.9	4962.6	4915.9	4911.3	4915.9
5°	4948.5	4962.6	4967.3	5018.5	4958.0	5037.3	5009.2	5037.3	5004.7	5014.0	5028.0
7.5°	5023.3	5046.6	5042.0	5107.3	5046.6	5135.4	5116.6	5158.7	5125.9	5135.4	5154.0
10°	5107.3	5135.4	5139.9	5205.4	5149.2	5256.6	5233.3	5280.0	5252.1	5266.1	5289.4
12.5°	5205.4	5238.0	5242.8	5317.3	5256.6	5368.8	5354.7	5401.4	5378.1	5392.1	5420.2
15°	5280.0	5326.6	5336.1	5410.7	5345.4	5462.1	5452.8	5513.5	5476.1	5499.5	5522.8
17.5°	5317.3	5359.5	5378.1	5448.1	5392.1	5508.8	5499.5	5550.9	5522.8	5546.2	5574.2
20°	5294.0	5345.4	5359.5	5429.5	5373.5	5490.2	5476.1	5527.6	5499.5	5518.1	5546.2
22.5°	5210.0	5261.4	5280.0	5345.4	5294.0	5401.4	5396.8	5443.5	5406.1	5429.5	5452.8
25°	5060.6	5116.6	5125.9	5186.6	5130.6	5242.8	5233.3	5284.7	5256.6	5270.7	5303.3
27.5°	4845.9	4911.3	4925.2	4976.6	4934.7	5028.0	5028.0	5069.9	5037.3	5037.3	5069.9
30°	4589.2	4654.4	4663.7	4705.8	4668.5	4752.5	4757.3	4799.2	4747.8	4775.9	4780.6
32.5°	4276.3	4318.4	4346.3	4383.7	4327.7	4435.1	4421.1	4453.7	4425.8	4425.8	4449.1
35°	3898.2	3949.6	3963.6	4010.3	3963.6	4047.5	4047.5	4066.3	4038.2	4038.2	4075.6
37.5°	3487.4	3524.8	3529.3	3576.0	3538.6	3608.6	3604.1	3618.1	3590.1	3608.6	3608.6
40°	3006.4	3034.5	3043.8	3067.2	3062.6	3113.8	3109.3	3118.6	3104.5	3109.3	3118.6
42.5°	2446.4	2483.6	2502.3	2520.9	2493.0	2563.0	2549.0	2563.0	2558.3	2563.0	2577.1
45°	1802.0	1830.1	1844.0	1848.7	1839.4	1881.4	1914.0	1886.1	1890.7	1881.4	1900.1
47.5°	1302.5	1307.2	1297.8	1325.8	1302.5	1321.3	1330.6	1335.1	1307.2	1302.5	1321.3
50°	891.7	915.1	882.4	896.3	891.7	910.3	901.0	905.8	877.7	891.7	882.4
52.5°	592.9	588.2	578.9	583.6	574.3	574.3	574.3	583.6	564.8	555.5	546.2
55°	359.5	350.1	331.5	326.7	326.7	331.5	322.2	312.9	312.9	308.1	308.1
57.5°	210.0	196.0	186.7	182.1	172.7	168.1	163.4	163.4	154.1	154.1	154.1
60°	116.7	102.6	93.3	84.0	84.0	79.3	74.7	70.0	70.0	70.0	65.3
62.5°	60.7	51.4	41.9	37.4	37.4	32.6	28.1	28.1	28.1	28.1	23.3
65°	41.9	32.6	28.1	23.3	23.3	18.6	18.6	18.6	18.6	18.6	18.6
67.5°	32.6	28.1	23.3	18.6	18.6	18.6	14.0	14.0	14.0	14.0	14.0
70°	28.1	18.6	18.6	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
72.5°	18.6	18.6	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
75°	14.0	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0
80°	4.7	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: P685210

CATALOG NUMBER: LX6C75D010 EX6759050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2	4883.2
2.5°	4958.0	4953.3	4958.0	4967.3	4948.5	5004.7	4976.6	5004.7
5°	5065.4	5069.9	5074.7	5088.7	5065.4	5135.4	5098.0	5139.9
7.5°	5205.4	5210.0	5214.7	5228.7	5214.7	5284.7	5242.8	5280.0
10°	5350.2	5359.5	5359.5	5382.8	5368.8	5434.0	5406.1	5452.8
12.5°	5485.4	5494.7	5504.2	5518.1	5508.8	5578.8	5555.5	5592.8
15°	5592.8	5611.4	5616.2	5634.8	5625.5	5700.2	5672.1	5709.5
17.5°	5644.2	5662.8	5662.8	5686.2	5676.9	5756.2	5718.8	5760.9
20°	5616.2	5630.2	5634.8	5658.3	5648.8	5728.3	5690.9	5742.2
22.5°	5527.6	5532.1	5536.9	5560.2	5555.5	5625.5	5592.8	5625.5
25°	5364.0	5378.1	5373.5	5392.1	5392.1	5448.1	5410.7	5438.8
27.5°	5130.6	5144.7	5144.7	5168.0	5149.2	5205.4	5168.0	5210.0
30°	4845.9	4859.9	4850.6	4869.2	4850.6	4906.6	4878.5	4892.5
32.5°	4505.1	4505.1	4509.7	4514.4	4505.1	4556.3	4528.4	4556.3
35°	4098.9	4108.2	4112.9	4117.7	4108.2	4145.6	4112.9	4131.5
37.5°	3641.5	3664.8	3660.1	3664.8	3650.8	3697.4	3669.4	3678.8
40°	3151.2	3151.2	3146.5	3155.9	3141.9	3179.3	3160.5	3169.8
42.5°	2581.6	2595.7	2577.1	2600.4	2563.0	2614.3	2595.7	2581.6
45°	1937.5	1918.7	1914.0	1918.7	1904.7	1909.4	1923.5	1914.0
47.5°	1321.3	1321.3	1311.8	1297.8	1316.5	1321.3	1302.5	1302.5
50°	887.0	887.0	877.7	872.9	882.4	877.7	868.4	882.4
52.5°	564.8	546.2	546.2	555.5	546.2	536.9	551.0	541.5
55°	308.1	298.8	298.8	308.1	298.8	298.8	294.1	303.4
57.5°	149.3	154.1	149.3	149.3	149.3	149.3	144.8	149.3
60°	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
62.5°	28.1	28.1	23.3	23.3	23.3	23.3	23.3	23.3
65°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
67.5°	14.0	14.0	14.0	14.0	14.0	18.6	14.0	14.0
70°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
72.5°	14.0	14.0	18.6	18.6	18.6	18.6	18.6	18.6
75°	9.3	9.3	9.3	4.7	4.7	4.7	4.7	4.7
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)