

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: P685130

Luminaire Tested: **LX6C60D010 EX6609040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685130
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: LX6C60D010 EX6609040 6LCSWLI
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

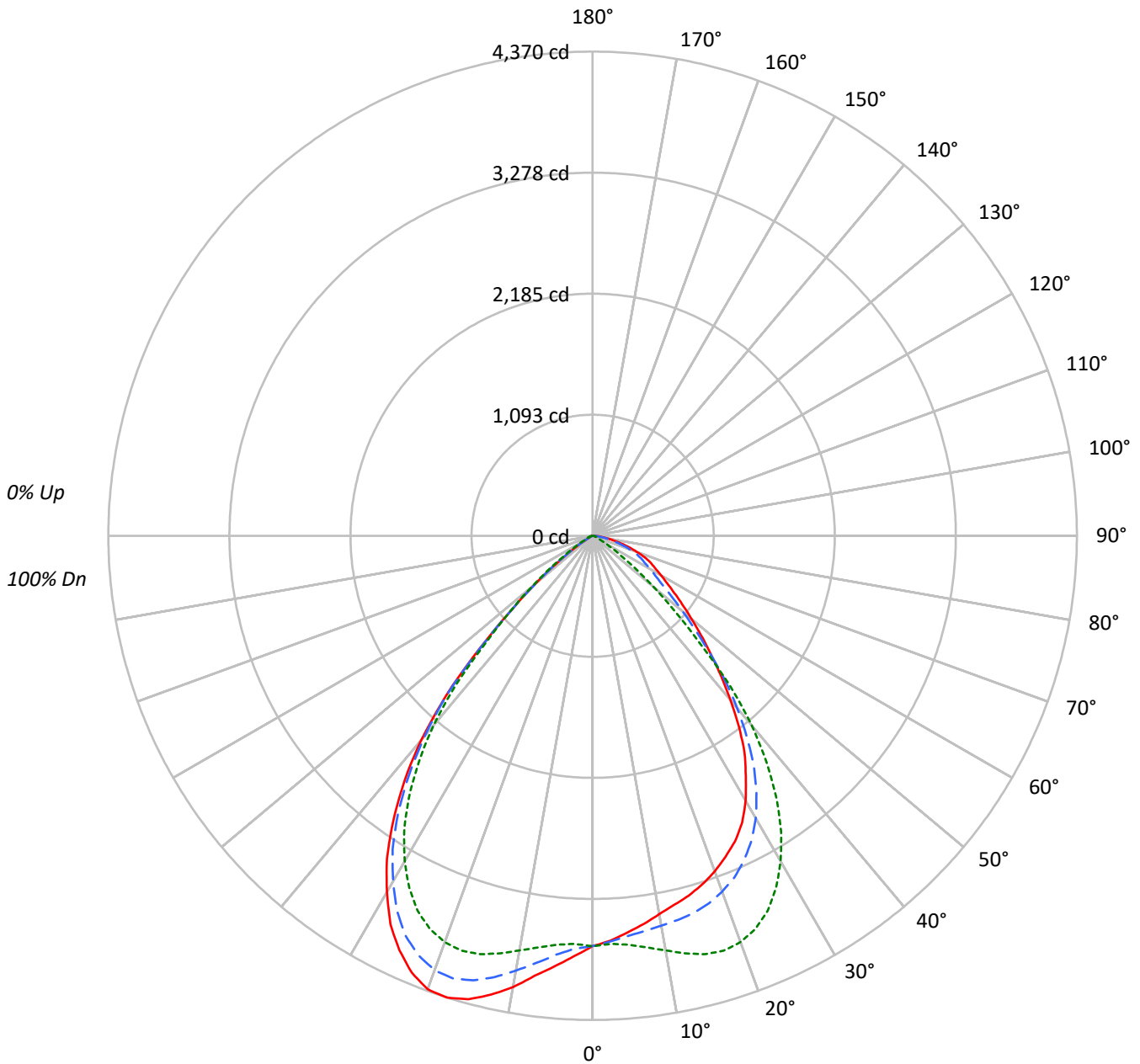
Lumens per Lamp: N/A
Luminaire Lumens: 6771.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	203070	203070	203070
5°	197804	203846	214560
10°	192994	211525	230251
15°	190733	221891	245807
20°	188001	227671	254110
25°	184009	225987	249553
30°	174856	214761	234929
35°	159973	193629	209744
40°	138374	159907	172072
45°	116687	104887	112562
50°	99067	60706	57090
55°	85971	29103	21992
60°	77647	13584	5427
65°	75326	7809	1829
70°	67543	6251	1699
75°	55515	4512	763
80°	41356	2241	0
85°	35664	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	5.3
10°-20°	1090.4	16.1
20°-30°	1666.1	24.6
30°-40°	1742.6	25.7
40°-50°	1130.4	16.7
50°-60°	448.8	6.6
60°-70°	212.9	3.1
70°-80°	101.3	1.5
80°-90°	20.7	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°	3114.3	46.0
0°-40°	4856.9	71.7
0°-60°	6436.2	95.1
0°-90°	6771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3704	3704	3704	3704	3704	
5°	3594	3626	3704	3796	3899	339
15°	3361	3524	3910	4154	4331	947
25°	3042	3233	3736	3988	4126	1393
35°	2390	2536	2893	3063	3134	1478
45°	1505	1491	1353	1434	1452	1171
55°	900	765	304	237	230	815
65°	581	482	60	14	14	567
75°	262	212	21	7	4	283
85°	57	35	0	0	0	66
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°	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3
2.5°	3658.2	3665.3	3626.4	3615.8	3644.1	3654.6	3658.2	3647.6	3651.2	3665.3	3665.3
5°	3594.5	3601.5	3566.1	3555.5	3583.8	3591.0	3601.5	3598.1	3608.7	3629.9	3626.4
7.5°	3534.3	3545.0	3506.0	3491.8	3527.3	3545.0	3552.0	3552.0	3566.1	3594.5	3598.1
10°	3467.0	3481.2	3445.8	3438.6	3477.6	3495.3	3498.9	3506.0	3527.3	3566.1	3573.2
12.5°	3410.4	3424.5	3399.7	3389.1	3431.6	3449.3	3456.3	3470.6	3495.3	3545.0	3552.0
15°	3360.7	3371.4	3343.0	3336.0	3378.4	3399.7	3403.2	3424.5	3456.3	3513.0	3523.7
17.5°	3297.0	3304.0	3282.9	3275.8	3318.3	3339.4	3343.0	3367.8	3406.8	3463.5	3481.2
20°	3222.6	3229.8	3208.5	3201.4	3243.9	3268.6	3272.2	3293.5	3339.4	3399.7	3417.4
22.5°	3134.1	3148.3	3123.5	3116.4	3159.0	3180.1	3190.8	3208.5	3254.5	3314.7	3339.4
25°	3042.1	3042.1	3024.4	3020.8	3059.8	3084.6	3081.0	3105.7	3151.8	3212.1	3233.2
27.5°	2921.6	2918.0	2900.3	2896.9	2939.3	2960.6	2953.4	2978.3	3020.8	3081.0	3102.3
30°	2762.3	2769.4	2744.6	2737.4	2773.0	2808.4	2804.8	2829.5	2872.0	2928.7	2942.9
32.5°	2571.0	2578.1	2574.6	2564.0	2595.8	2613.5	2624.1	2641.8	2677.3	2737.4	2751.7
35°	2390.4	2379.8	2365.7	2365.7	2397.5	2425.8	2415.2	2436.5	2471.9	2532.0	2535.6
37.5°	2167.3	2163.7	2156.7	2149.6	2185.0	2192.1	2195.7	2209.8	2241.7	2291.3	2284.2
40°	1933.6	1937.1	1933.6	1919.4	1940.7	1969.0	1965.4	1972.6	2000.8	2036.2	2025.7
42.5°	1714.0	1714.0	1714.0	1699.9	1724.6	1738.9	1745.9	1742.3	1749.4	1781.3	1767.1
45°	1505.1	1508.6	1505.1	1501.5	1505.1	1512.2	1505.1	1501.5	1501.5	1512.2	1490.9
47.5°	1324.5	1324.5	1313.9	1303.2	1313.9	1317.3	1306.8	1296.2	1292.6	1289.1	1253.7
50°	1161.6	1158.0	1154.5	1136.8	1147.4	1150.9	1136.8	1129.7	1115.5	1097.8	1055.4
52.5°	1020.0	1016.4	1012.8	995.1	1002.3	1005.7	991.6	977.4	959.7	945.6	892.5
55°	899.5	895.9	895.9	885.4	878.2	885.4	871.2	860.5	835.8	818.1	764.9
57.5°	796.8	796.8	789.7	779.1	782.7	782.7	768.5	754.3	733.0	711.8	669.4
60°	708.2	708.2	708.2	697.6	697.6	697.6	690.5	676.4	658.7	637.4	595.0
62.5°	637.4	637.4	633.8	623.3	626.8	626.8	619.7	605.6	587.9	573.7	531.2
65°	580.7	580.7	580.7	570.2	570.2	573.7	566.6	552.5	538.3	520.6	481.6
67.5°	509.9	506.5	506.5	499.3	502.9	506.5	499.3	488.8	471.1	460.4	425.0
70°	421.4	425.0	428.5	417.9	421.4	421.4	417.9	407.3	396.6	386.0	354.2
72.5°	343.5	343.5	339.9	336.5	336.5	339.9	332.9	322.2	315.2	308.1	283.2
75°	262.1	258.5	262.1	255.0	255.0	255.0	247.8	244.4	240.8	230.1	212.4
77.5°	191.3	187.7	187.7	180.6	184.2	184.2	180.6	173.6	166.4	162.9	148.7
80°	131.0	131.0	131.0	127.5	127.5	123.9	123.9	120.5	113.3	109.8	102.8
82.5°	88.5	88.5	88.5	85.1	85.1	85.1	81.5	77.9	74.4	70.8	63.8
85°	56.7	56.7	56.7	53.1	53.1	53.1	49.5	49.5	46.1	42.5	35.4
87.5°	31.8	31.8	31.8	28.4	28.4	28.4	28.4	28.4	24.8	21.3	17.7
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°	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3
2.5°	3690.0	3640.5	3672.3	3672.3	3661.8	3690.0	3707.9	3722.0	3718.4	3686.6	3683.0
5°	3661.8	3619.2	3654.6	3658.2	3647.6	3686.6	3711.3	3729.0	3732.6	3704.3	3707.9
7.5°	3640.5	3605.1	3651.2	3665.3	3661.8	3697.2	3725.6	3753.8	3768.0	3746.7	3750.3
10°	3629.9	3601.5	3651.2	3672.3	3675.9	3714.9	3757.4	3796.4	3814.1	3799.9	3810.5
12.5°	3615.8	3598.1	3654.6	3686.6	3700.7	3739.7	3792.8	3838.9	3867.2	3860.1	3881.3
15°	3601.5	3587.4	3654.6	3700.7	3718.4	3753.8	3814.1	3881.3	3913.3	3909.7	3938.0
17.5°	3566.1	3562.7	3633.5	3683.0	3707.9	3750.3	3806.9	3888.4	3920.3	3927.4	3962.8
20°	3509.6	3509.6	3587.4	3640.5	3668.9	3707.9	3778.7	3856.6	3895.6	3902.6	3941.6
22.5°	3431.6	3438.6	3513.0	3566.1	3608.7	3636.9	3711.3	3792.8	3828.2	3838.9	3881.3
25°	3328.9	3336.0	3406.8	3459.9	3506.0	3537.8	3608.7	3683.0	3725.6	3736.1	3768.0
27.5°	3194.4	3208.5	3275.8	3328.9	3367.8	3389.1	3463.5	3541.4	3573.2	3583.8	3615.8
30°	3038.5	3042.1	3109.3	3155.4	3194.4	3212.1	3275.8	3357.3	3382.0	3392.7	3438.6
32.5°	2847.2	2843.8	2907.5	2950.0	2981.8	3003.1	3070.3	3123.5	3148.3	3166.0	3190.8
35°	2617.1	2613.5	2659.5	2709.2	2734.0	2741.0	2808.4	2864.9	2879.2	2893.3	2925.2
37.5°	2358.6	2358.6	2397.5	2422.4	2450.6	2461.2	2493.2	2556.9	2581.7	2578.1	2602.8
40°	2085.9	2071.8	2100.0	2124.9	2131.9	2135.4	2167.3	2216.8	2234.5	2234.5	2252.3
42.5°	1799.0	1777.7	1781.3	1795.4	1802.5	1777.7	1799.0	1830.8	1820.2	1834.4	1838.0
45°	1494.5	1462.5	1448.4	1416.5	1423.7	1398.8	1384.7	1391.7	1388.3	1352.9	1359.9
47.5°	1246.5	1189.9	1165.1	1119.1	1108.5	1080.1	1062.4	1030.5	1002.3	1002.3	984.4
50°	1037.7	981.0	931.3	878.2	860.5	835.8	796.8	754.3	733.0	711.8	694.1
52.5°	871.2	811.0	750.7	694.1	669.4	637.4	584.3	541.9	502.9	481.6	460.4
55°	736.6	669.4	605.6	545.3	513.5	481.6	428.5	378.9	332.9	304.5	286.8
57.5°	633.8	570.2	502.9	439.1	410.8	375.4	318.8	265.5	223.1	191.3	173.6
60°	559.6	495.8	435.6	368.3	339.9	304.5	244.4	194.7	152.3	123.9	102.8
62.5°	495.8	439.1	375.4	315.2	286.8	251.4	194.7	145.2	106.2	77.9	60.2
65°	449.8	393.1	339.9	279.8	255.0	219.6	166.4	120.5	85.1	60.2	42.5
67.5°	396.6	347.0	293.9	244.4	219.6	191.3	141.6	102.8	70.8	49.5	35.4
70°	332.9	293.9	247.8	201.9	184.2	159.3	116.9	85.1	56.7	39.0	28.4
72.5°	265.5	233.7	198.3	162.9	148.7	123.9	95.6	67.4	42.5	28.4	21.3
75°	201.9	177.0	148.7	123.9	109.8	95.6	70.8	49.5	31.8	21.3	14.1
77.5°	138.2	127.5	106.2	85.1	77.9	67.4	46.1	31.8	21.3	14.1	7.1
80°	95.6	85.1	70.8	56.7	49.5	42.5	28.4	21.3	10.6	7.1	3.6
82.5°	60.2	49.5	42.5	35.4	31.8	24.8	17.7	10.6	7.1	3.6	3.6
85°	31.8	28.4	24.8	17.7	17.7	14.1	10.6	7.1	3.6	0.0	0.0
87.5°	17.7	14.1	10.6	7.1	7.1	3.6	3.6	3.6	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°	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3
2.5°	3725.6	3725.6	3722.0	3764.4	3714.9	3764.4	3739.7	3764.4	3729.0	3725.6	3729.0
5°	3753.8	3764.4	3768.0	3806.9	3761.0	3821.1	3799.9	3821.1	3796.4	3803.4	3814.1
7.5°	3810.5	3828.2	3824.7	3874.3	3828.2	3895.6	3881.3	3913.3	3888.4	3895.6	3909.7
10°	3874.3	3895.6	3899.0	3948.7	3906.1	3987.5	3969.8	4005.2	3984.1	3994.7	4012.4
12.5°	3948.7	3973.4	3977.0	4033.6	3987.5	4072.6	4061.9	4097.3	4079.6	4090.3	4111.6
15°	4005.2	4040.6	4047.8	4104.4	4054.9	4143.4	4136.3	4182.4	4154.0	4171.7	4189.4
17.5°	4033.6	4065.5	4079.6	4132.7	4090.3	4178.8	4171.7	4210.7	4189.4	4207.1	4228.4
20°	4015.9	4054.9	4065.5	4118.6	4076.2	4164.7	4154.0	4193.0	4171.7	4185.9	4207.1
22.5°	3952.1	3991.1	4005.2	4054.9	4015.9	4097.3	4093.9	4129.3	4100.9	4118.6	4136.3
25°	3838.9	3881.3	3888.4	3934.4	3892.0	3977.0	3969.8	4008.8	3987.5	3998.2	4022.9
27.5°	3675.9	3725.6	3736.1	3775.1	3743.3	3814.1	3814.1	3845.9	3821.1	3821.1	3845.9
30°	3481.2	3530.7	3537.8	3569.7	3541.4	3605.1	3608.7	3640.5	3601.5	3622.8	3626.4
32.5°	3243.9	3275.8	3297.0	3325.3	3282.9	3364.3	3353.7	3378.4	3357.3	3357.3	3375.0
35°	2957.0	2996.0	3006.7	3042.1	3006.7	3070.3	3070.3	3084.6	3063.3	3063.3	3091.6
37.5°	2645.4	2673.8	2677.3	2712.7	2684.3	2737.4	2734.0	2744.6	2723.3	2737.4	2737.4
40°	2280.6	2301.9	2309.0	2326.7	2323.2	2362.1	2358.6	2365.7	2355.0	2358.6	2365.7
42.5°	1855.7	1884.0	1898.2	1912.3	1891.1	1944.2	1933.6	1944.2	1940.7	1944.2	1954.9
45°	1367.0	1388.3	1398.8	1402.4	1395.3	1427.1	1451.9	1430.7	1434.2	1427.1	1441.4
47.5°	988.0	991.6	984.4	1005.7	988.0	1002.3	1009.3	1012.8	991.6	988.0	1002.3
50°	676.4	694.1	669.4	679.9	676.4	690.5	683.5	687.1	665.8	676.4	669.4
52.5°	449.8	446.2	439.1	442.7	435.6	435.6	435.6	442.7	428.5	421.4	414.4
55°	272.7	265.5	251.4	247.8	247.8	251.4	244.4	237.3	237.3	233.7	233.7
57.5°	159.3	148.7	141.6	138.2	131.0	127.5	123.9	123.9	116.9	116.9	116.9
60°	88.5	77.9	70.8	63.8	63.8	60.2	56.7	53.1	53.1	53.1	49.5
62.5°	46.1	39.0	31.8	28.4	28.4	24.8	21.3	21.3	21.3	21.3	17.7
65°	31.8	24.8	21.3	17.7	17.7	14.1	14.1	14.1	14.1	14.1	14.1
67.5°	24.8	21.3	17.7	14.1	14.1	14.1	10.6	10.6	10.6	10.6	10.6
70°	21.3	14.1	14.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
72.5°	14.1	14.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	10.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0
80°	3.6	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: P685130

CATALOG NUMBER: LX6C60D010 EX6609040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3	3704.3
2.5°	3761.0	3757.4	3761.0	3768.0	3753.8	3796.4	3775.1	3796.4
5°	3842.4	3845.9	3849.5	3860.1	3842.4	3895.6	3867.2	3899.0
7.5°	3948.7	3952.1	3955.7	3966.4	3955.7	4008.8	3977.0	4005.2
10°	4058.5	4065.5	4065.5	4083.2	4072.6	4122.1	4100.9	4136.3
12.5°	4161.1	4168.1	4175.3	4185.9	4178.8	4231.9	4214.2	4242.6
15°	4242.6	4256.7	4260.3	4274.4	4267.3	4324.0	4302.7	4331.1
17.5°	4281.6	4295.7	4295.7	4313.4	4306.3	4366.5	4338.1	4370.1
20°	4260.3	4270.9	4274.4	4292.2	4285.0	4345.3	4317.0	4355.8
22.5°	4193.0	4196.5	4200.1	4217.8	4214.2	4267.3	4242.6	4267.3
25°	4069.0	4079.6	4076.2	4090.3	4090.3	4132.7	4104.4	4125.7
27.5°	3892.0	3902.6	3902.6	3920.3	3906.1	3948.7	3920.3	3952.1
30°	3675.9	3686.6	3679.5	3693.6	3679.5	3722.0	3700.7	3711.3
32.5°	3417.4	3417.4	3420.9	3424.5	3417.4	3456.3	3435.1	3456.3
35°	3109.3	3116.4	3120.0	3123.5	3116.4	3144.7	3120.0	3134.1
37.5°	2762.3	2780.0	2776.4	2780.0	2769.4	2804.8	2783.5	2790.7
40°	2390.4	2390.4	2386.8	2394.0	2383.4	2411.7	2397.5	2404.5
42.5°	1958.4	1969.0	1954.9	1972.6	1944.2	1983.1	1969.0	1958.4
45°	1469.7	1455.5	1451.9	1455.5	1444.8	1448.4	1459.1	1451.9
47.5°	1002.3	1002.3	995.1	984.4	998.7	1002.3	988.0	988.0
50°	672.8	672.8	665.8	662.2	669.4	665.8	658.7	669.4
52.5°	428.5	414.4	414.4	421.4	414.4	407.3	417.9	410.8
55°	233.7	226.7	226.7	233.7	226.7	226.7	223.1	230.1
57.5°	113.3	116.9	113.3	113.3	113.3	113.3	109.8	113.3
60°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
62.5°	21.3	21.3	17.7	17.7	17.7	17.7	17.7	17.7
65°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
67.5°	10.6	10.6	10.6	10.6	10.6	14.1	10.6	10.6
70°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
72.5°	10.6	10.6	14.1	14.1	14.1	14.1	14.1	14.1
75°	7.1	7.1	7.1	3.6	3.6	3.6	3.6	3.6
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)