

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: P857640

Luminaire Tested: **LX4C30D010 EX4C309835 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309835 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

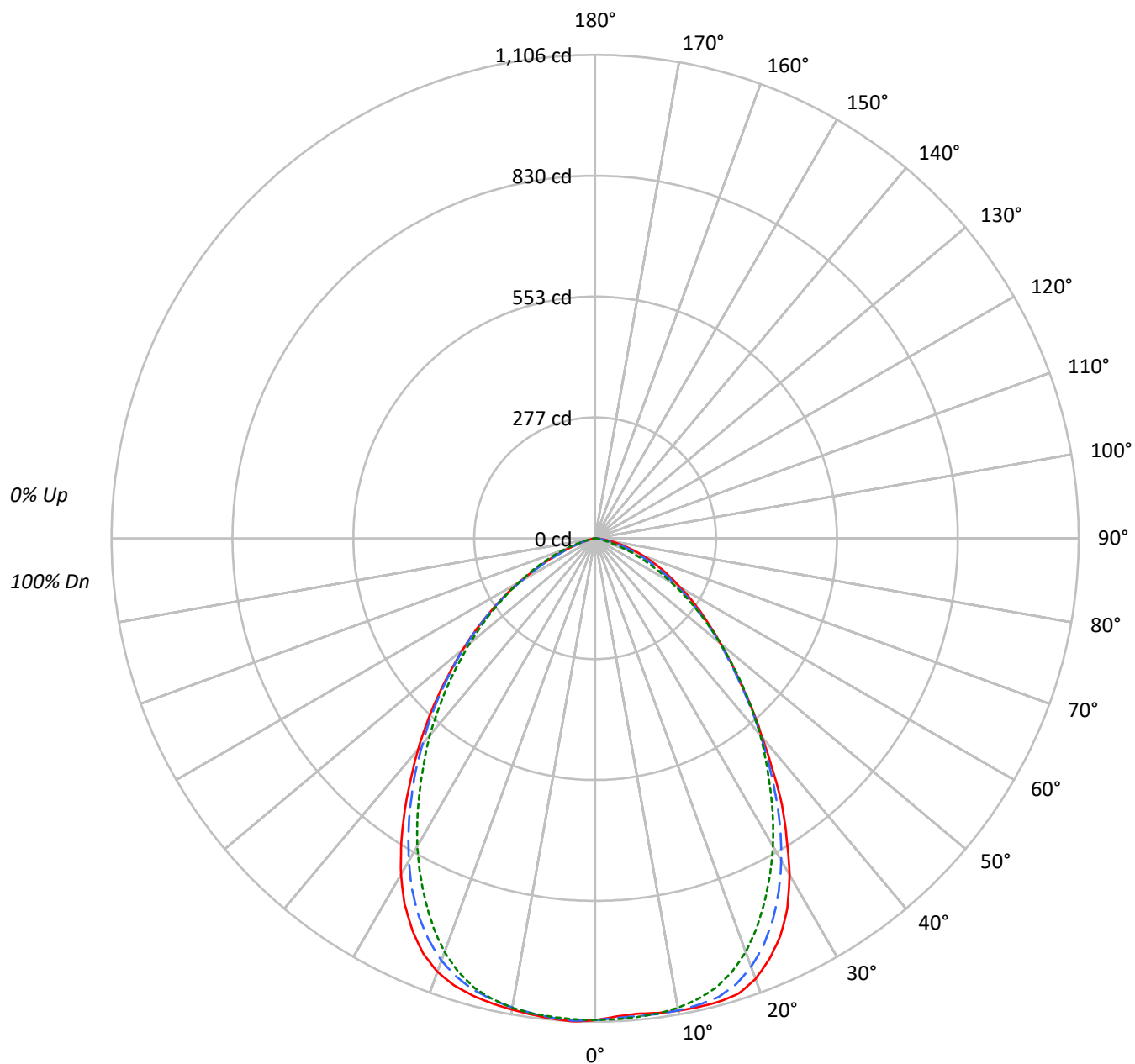
Lumens per Lamp: N/A
Luminaire Lumens: 2113.4 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	135434	135434	135434
5°	134668	135581	136099
10°	136899	136076	136587
15°	139575	135467	137731
20°	140269	131666	137955
25°	135960	124344	134117
30°	126198	115388	125957
35°	111747	104684	113862
40°	95262	94268	100987
45°	81849	82788	87948
50°	71443	71596	75399
55°	63121	60465	62522
60°	55333	49313	49117
65°	48982	38256	34070
70°	41775	26329	20223
75°	33796	14145	9209
80°	23135	3537	2335
85°	7048	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	5.0
10°-20°	303.3	14.4
20°-30°	438.2	20.7
30°-40°	453.0	21.4
40°-50°	374.3	17.7
50°-60°	258.3	12.2
60°-70°	135.3	6.4
70°-80°	42.6	2.0
80°-90°	3.6	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°	846.3	40.0
0°-40°	1299.3	61.5
0°-60°	1932.0	91.4
0°-90°	2113.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1102	1102	1102	1102	1102	
5°	1092	1097	1099	1102	1104	105
15°	1097	1087	1065	1070	1083	310
25°	1003	962	917	954	989	458
35°	745	720	698	734	759	462
45°	471	469	476	498	506	367
55°	295	286	282	290	292	265
65°	168	153	132	109	117	167
75°	71	56	30	20	19	76
85°	5	2	1	1	1	10
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°	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1095.3	1095.8	1095.8	1096.6	1096.6	1096.6	1097.0	1097.0	1097.4	1097.8	1098.2
5°	1092.0	1092.0	1092.8	1093.3	1094.1	1094.5	1095.3	1095.8	1096.6	1097.0	1097.4
7.5°	1095.3	1095.3	1095.8	1096.1	1096.1	1096.6	1096.6	1097.0	1097.4	1097.8	1097.8
10°	1097.4	1097.4	1097.4	1097.4	1097.8	1097.8	1097.8	1097.4	1097.4	1097.4	1097.0
12.5°	1098.2	1098.2	1097.8	1097.4	1097.8	1097.4	1097.4	1096.1	1095.3	1094.5	1093.3
15°	1097.4	1097.4	1097.0	1096.6	1096.1	1095.3	1094.9	1092.8	1091.2	1088.7	1087.0
17.5°	1092.0	1091.2	1090.3	1089.5	1087.8	1086.6	1085.8	1082.0	1079.2	1075.1	1070.4
20°	1072.9	1072.1	1070.9	1068.8	1066.8	1065.1	1062.6	1057.2	1054.3	1048.2	1043.6
22.5°	1041.9	1041.1	1041.5	1037.8	1033.6	1031.1	1029.5	1025.0	1020.0	1012.1	1007.1
25°	1003.0	1000.5	1000.5	994.7	992.7	991.0	988.9	983.6	976.1	969.1	962.5
27.5°	952.5	949.2	947.6	946.7	941.8	938.0	935.1	931.0	924.7	918.6	909.5
30°	889.6	889.2	887.1	883.4	879.6	878.0	874.7	867.7	861.9	857.3	851.5
32.5°	815.5	815.1	815.1	815.1	812.6	812.2	807.2	803.5	798.9	791.9	788.2
35°	745.1	744.7	745.1	738.9	737.3	736.0	735.6	733.1	726.9	723.6	720.3
37.5°	665.6	666.8	666.0	664.4	666.5	662.7	665.6	660.2	657.7	656.9	653.2
40°	594.0	597.4	594.0	594.4	596.5	592.7	592.7	591.9	590.3	589.4	588.6
42.5°	532.7	528.6	531.1	529.1	531.1	529.9	527.8	529.1	529.4	527.8	527.4
45°	471.1	471.9	472.7	471.5	471.5	470.2	473.6	471.5	471.5	471.9	469.0
47.5°	421.0	419.7	420.5	419.7	420.2	419.3	420.2	420.5	419.7	419.7	417.2
50°	373.8	373.0	375.9	373.4	373.4	373.0	373.4	372.6	371.3	371.3	372.1
52.5°	332.8	331.2	330.7	332.8	329.9	329.9	330.3	329.5	327.9	327.0	325.0
55°	294.7	294.4	294.7	293.1	292.2	292.2	290.2	289.4	288.9	286.9	285.6
57.5°	259.1	257.9	258.3	257.9	256.2	255.8	254.1	254.1	252.5	250.8	248.8
60°	225.2	225.2	226.4	224.8	223.6	222.7	221.9	221.1	218.1	215.3	212.8
62.5°	194.9	195.4	194.9	193.7	192.9	192.1	191.3	188.8	186.3	184.6	181.7
65°	168.5	168.1	166.8	166.0	163.9	163.9	162.3	161.0	158.1	155.6	152.8
67.5°	141.2	140.4	140.4	140.4	137.9	137.4	136.6	134.1	131.6	128.3	125.8
70°	116.3	117.2	115.9	114.7	113.4	113.0	111.7	109.3	106.4	103.1	101.0
72.5°	92.7	93.5	92.3	91.9	89.4	88.5	88.2	86.1	82.8	80.7	77.4
75°	71.2	71.6	70.8	70.0	68.3	67.9	65.8	64.2	62.1	58.8	55.9
77.5°	51.4	50.5	50.5	48.9	47.2	47.2	46.8	44.3	41.4	38.9	36.5
80°	32.7	32.3	31.0	30.2	29.0	28.5	28.2	26.0	24.0	22.4	20.7
82.5°	16.6	16.1	15.7	15.3	14.4	13.6	14.1	12.4	11.6	9.9	8.6
85°	5.0	5.4	5.4	5.0	4.5	4.5	4.5	4.1	3.3	2.9	2.5
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1098.6	1099.1	1099.4	1099.9	1099.9	1100.3	1100.7	1101.1	1101.6	1101.6	1101.9
5°	1097.8	1098.6	1098.6	1099.1	1099.1	1099.1	1099.4	1099.4	1099.4	1099.4	1099.9
7.5°	1098.2	1098.2	1098.2	1097.8	1097.8	1097.4	1097.4	1097.4	1096.6	1096.6	1096.6
10°	1096.1	1095.8	1095.3	1094.5	1094.1	1093.6	1092.8	1092.0	1091.2	1090.8	1090.0
12.5°	1092.0	1090.3	1088.7	1087.0	1086.2	1085.8	1084.2	1082.9	1081.7	1080.4	1079.6
15°	1083.7	1081.2	1078.4	1075.1	1074.2	1073.4	1070.4	1068.0	1066.3	1065.1	1063.0
17.5°	1067.1	1062.2	1058.9	1053.9	1051.9	1051.0	1046.5	1044.0	1041.1	1040.3	1038.6
20°	1037.8	1033.3	1027.0	1022.5	1020.0	1017.5	1013.7	1010.4	1007.1	1007.1	1005.1
22.5°	1001.0	995.2	987.2	981.5	981.1	976.1	972.8	969.1	967.8	965.3	965.3
25°	954.6	949.6	940.9	936.0	933.5	932.2	926.9	921.9	919.4	917.3	918.9
27.5°	903.2	895.8	889.2	883.0	880.9	878.5	873.5	871.4	866.9	866.4	866.0
30°	844.5	837.0	830.4	827.5	823.3	821.3	817.5	815.1	813.4	813.4	812.6
32.5°	782.8	776.2	772.9	766.6	764.6	761.6	759.2	756.7	757.5	756.7	757.1
35°	716.2	714.5	708.3	704.6	704.6	704.1	700.0	698.3	697.5	698.0	700.0
37.5°	652.8	647.9	643.7	641.3	643.3	640.8	640.4	640.4	642.9	641.3	644.6
40°	585.3	584.9	583.3	584.1	584.5	581.6	582.4	582.8	584.5	587.8	588.2
42.5°	526.6	526.1	526.1	526.1	525.3	523.6	525.3	528.2	527.8	530.3	532.4
45°	469.9	469.0	470.7	469.4	471.9	472.7	471.5	472.4	474.8	476.5	479.8
47.5°	418.1	418.1	418.5	419.3	416.9	418.9	419.7	421.4	422.7	423.5	425.1
50°	370.1	370.1	369.3	369.3	369.3	370.5	368.8	370.9	371.3	374.6	376.7
52.5°	325.8	323.7	325.0	324.1	322.5	321.7	322.5	322.9	325.4	326.2	328.7
55°	283.6	283.6	280.3	279.4	280.6	280.3	279.8	279.8	281.1	282.3	284.4
57.5°	246.3	243.8	241.3	240.9	239.7	240.1	240.1	239.7	238.8	239.3	239.7
60°	211.1	209.5	205.7	205.7	205.3	204.9	202.9	202.4	200.4	200.7	199.1
62.5°	178.8	178.0	173.0	171.4	171.4	170.1	168.1	167.6	164.8	164.8	163.1
65°	149.8	147.4	144.5	141.6	141.6	139.9	138.7	134.9	132.9	131.6	129.1
67.5°	123.3	119.7	116.7	114.2	112.6	112.2	109.3	106.8	103.5	101.4	97.7
70°	97.7	94.8	91.9	89.4	87.7	86.1	83.2	79.5	77.0	73.3	70.8
72.5°	73.7	71.2	68.8	65.4	63.3	62.1	59.2	55.9	51.7	49.2	45.9
75°	53.0	50.1	46.8	43.9	42.6	41.4	38.1	35.6	32.7	29.8	26.5
77.5°	34.3	31.0	28.5	25.2	24.9	24.0	20.7	18.2	16.1	14.4	12.4
80°	18.2	16.6	14.4	12.4	11.6	10.3	8.6	7.5	6.2	5.0	4.1
82.5°	7.8	6.6	5.4	4.5	4.1	3.7	2.9	2.5	2.1	2.1	1.7
85°	2.1	1.7	1.7	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	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°	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1102.4	1102.8	1103.2	1103.2	1103.6	1104.0	1104.0	1104.4	1104.9	1105.2	1105.2
5°	1100.3	1100.3	1100.3	1100.7	1100.7	1100.7	1100.7	1101.6	1101.6	1101.9	1102.4
7.5°	1096.1	1096.1	1096.1	1096.1	1095.8	1096.1	1095.8	1095.8	1096.6	1097.0	1097.4
10°	1089.5	1089.1	1089.1	1088.7	1088.7	1088.7	1089.1	1089.5	1090.0	1090.3	1091.6
12.5°	1079.2	1078.7	1078.7	1078.4	1078.4	1078.7	1079.2	1080.0	1081.7	1082.5	1084.2
15°	1062.6	1062.2	1062.6	1063.0	1063.8	1065.1	1066.3	1067.6	1070.1	1072.1	1074.2
17.5°	1038.6	1039.1	1039.4	1040.3	1041.5	1043.2	1046.5	1049.8	1052.7	1056.0	1059.3
20°	1005.5	1007.1	1007.6	1010.4	1011.3	1015.0	1018.7	1023.7	1028.3	1032.4	1036.9
22.5°	965.8	967.0	968.6	972.0	974.0	979.0	983.6	989.4	994.3	999.7	1006.3
25°	920.6	921.1	926.0	926.0	931.0	935.1	940.5	946.7	954.2	961.2	965.8
27.5°	869.3	871.4	875.1	876.8	880.5	887.1	891.7	899.1	906.5	912.8	917.8
30°	815.5	817.1	823.3	824.1	827.1	832.9	839.1	846.1	851.9	858.9	863.5
32.5°	758.8	763.3	767.1	769.9	770.8	779.5	782.8	787.8	794.4	801.4	806.0
35°	703.8	705.8	711.2	712.9	715.4	720.3	726.9	731.0	734.3	738.9	744.2
37.5°	645.4	651.6	652.8	657.7	658.6	663.2	666.5	671.4	675.6	679.7	680.6
40°	591.1	593.2	597.7	599.0	599.8	606.0	610.1	611.4	613.5	617.2	622.2
42.5°	536.1	538.2	543.1	541.8	545.6	548.5	550.6	555.6	557.6	558.9	558.9
45°	481.8	482.7	486.0	487.6	489.7	491.3	495.1	497.6	498.4	502.1	503.4
47.5°	430.1	430.9	433.4	436.3	435.4	437.6	441.7	442.9	443.4	445.9	447.0
50°	379.2	381.2	384.6	383.7	386.2	387.5	391.2	392.0	392.0	392.5	392.8
52.5°	331.5	333.2	334.0	334.8	336.1	338.2	339.8	339.0	340.6	342.3	341.1
55°	284.4	285.6	287.7	288.6	288.6	288.9	288.1	291.9	290.2	289.7	290.2
57.5°	241.3	239.7	239.3	241.3	242.2	241.8	240.5	242.2	242.2	241.3	240.1
60°	199.5	198.3	197.9	198.3	196.6	195.4	196.2	195.4	193.3	192.5	192.9
62.5°	161.4	160.2	156.9	156.9	156.1	155.6	152.3	152.8	151.1	148.7	149.5
65°	126.3	123.0	121.3	120.8	118.0	115.5	114.7	111.7	109.3	108.9	109.3
67.5°	94.8	91.0	88.2	86.9	85.3	83.2	80.3	77.8	78.7	78.2	79.9
70°	65.8	63.3	60.5	58.4	59.2	56.7	55.0	55.0	55.5	55.9	56.7
72.5°	43.9	40.6	39.3	38.1	37.3	35.6	36.5	36.5	36.0	36.5	35.6
75°	24.9	23.2	21.9	21.5	20.7	20.7	20.7	20.7	20.2	19.9	19.9
77.5°	11.1	10.3	9.9	9.5	9.5	9.5	9.1	8.6	8.6	8.6	8.3
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	1.7	1.7	2.1	2.1	2.1	1.7	2.1	2.1	1.7	1.7	2.1
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	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: P857640

CATALOG NUMBER: LX4C30D010 EX4C309835 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1105.7	1106.1	1106.1	1106.1	1106.5	1106.5	1106.5	1106.5
5°	1102.8	1103.2	1103.2	1103.2	1103.6	1103.6	1103.6	1103.6
7.5°	1097.8	1098.2	1098.2	1098.6	1098.6	1099.1	1099.1	1099.4
10°	1092.0	1092.8	1093.3	1093.6	1094.1	1094.5	1094.5	1094.9
12.5°	1085.8	1086.6	1087.0	1087.8	1088.7	1089.1	1089.5	1090.0
15°	1076.7	1078.4	1079.2	1079.6	1081.2	1082.0	1082.5	1082.9
17.5°	1062.2	1065.5	1066.8	1067.6	1069.3	1070.9	1072.1	1072.6
20°	1041.5	1045.2	1046.9	1049.0	1051.5	1053.5	1054.3	1055.2
22.5°	1012.6	1016.7	1019.2	1021.7	1023.7	1025.8	1029.1	1027.8
25°	971.1	978.2	981.1	982.3	986.9	989.4	991.0	989.4
27.5°	924.7	928.9	931.4	934.3	937.6	940.1	940.9	943.4
30°	868.9	876.0	875.5	878.5	882.6	885.1	885.9	887.9
32.5°	811.0	814.2	816.7	816.3	818.0	822.5	820.8	824.6
35°	749.2	749.7	753.8	753.4	756.7	756.7	756.7	759.2
37.5°	683.4	688.4	686.4	691.3	689.7	690.9	690.9	691.7
40°	623.4	625.1	625.1	626.7	628.0	626.7	627.5	629.7
42.5°	561.4	563.0	563.4	562.6	563.8	567.5	564.7	567.1
45°	503.4	504.6	506.2	505.0	507.1	505.9	507.1	506.2
47.5°	448.7	448.3	447.9	451.2	448.3	448.7	450.4	447.5
50°	392.8	395.3	393.7	395.0	395.8	395.8	394.5	394.5
52.5°	343.1	342.8	341.5	342.8	341.9	342.3	343.1	342.3
55°	291.9	293.5	292.7	292.2	292.7	292.7	295.2	291.9
57.5°	241.3	240.5	241.8	244.6	241.8	243.8	245.1	245.5
60°	193.3	193.3	195.8	194.6	197.1	199.1	200.7	199.9
62.5°	147.4	149.5	150.3	150.7	153.2	154.8	154.8	154.4
65°	109.3	112.2	112.2	113.9	114.7	114.7	115.5	117.2
67.5°	80.7	80.7	81.1	82.0	81.5	81.5	82.4	82.8
70°	56.3	55.5	56.7	56.3	56.3	55.9	56.3	56.3
72.5°	35.6	35.6	36.0	35.6	34.8	35.2	35.2	36.0
75°	19.1	19.9	19.1	19.1	19.4	18.6	19.1	19.4
77.5°	7.8	7.8	7.8	7.8	7.8	7.5	7.5	7.5
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.3	3.3
82.5°	1.7	2.1	1.7	2.1	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4
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)