

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: P857461

Luminaire Tested: **LX4C25D010 EX4C259830 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C25D010 EX4C259830 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

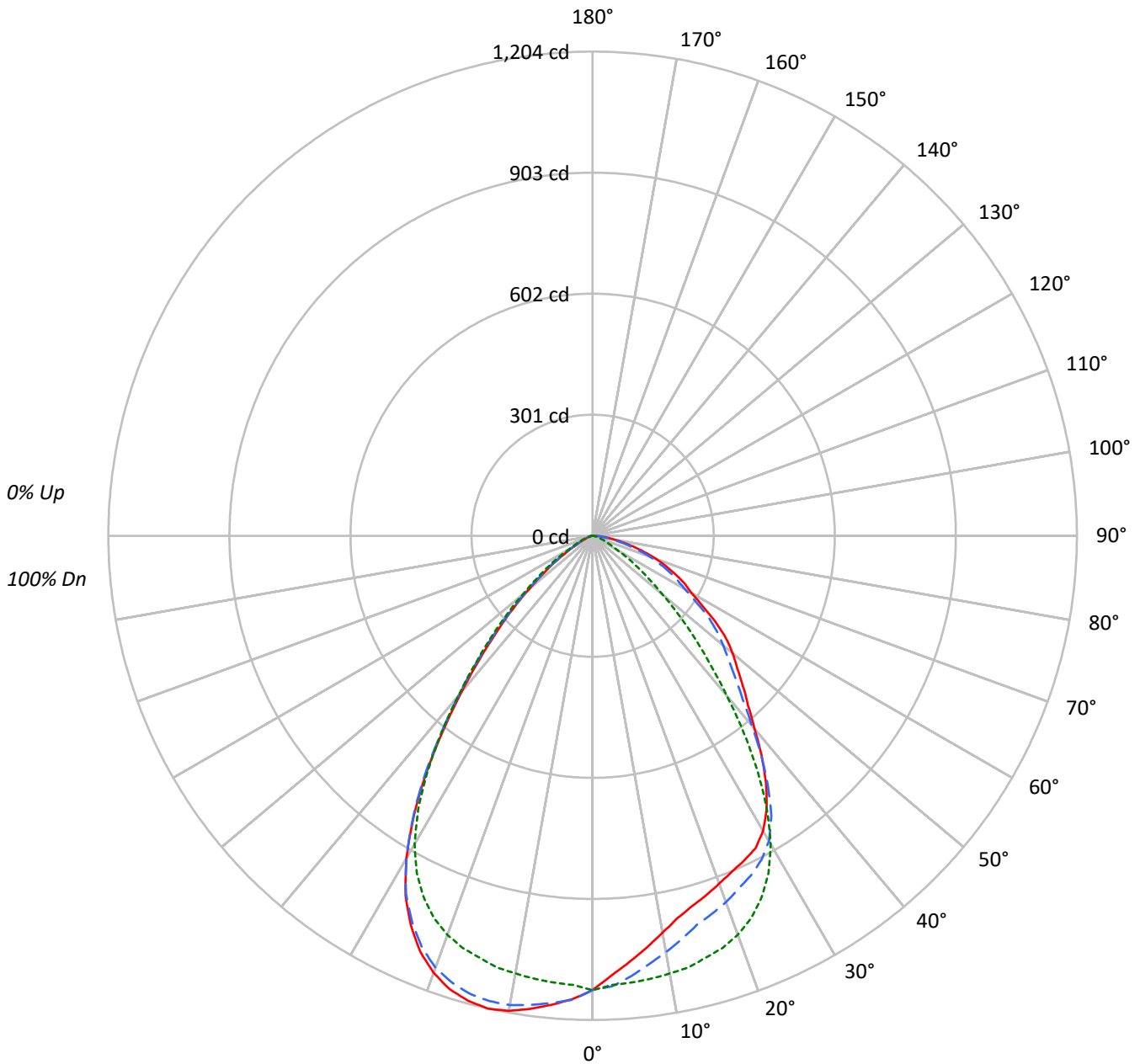
Lumens per Lamp: N/A
Luminaire Lumens: 1980.6 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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				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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	138800	138800	138800
5°	131080	137542	144362
10°	124973	137860	149661
15°	121299	138151	152218
20°	120305	138007	151146
25°	120778	134605	144866
30°	120211	125574	131361
35°	112677	107218	108313
40°	100410	83138	81261
45°	91822	61973	58169
50°	86829	43405	39238
55°	79828	29322	24632
60°	69756	17150	13588
65°	66017	10988	7616
70°	60166	7831	4706
75°	49793	5554	3465
80°	39124	3113	2052
85°	34958	2114	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	5.4
10°-20°	306.3	15.5
20°-30°	454.0	22.9
30°-40°	454.6	23.0
40°-50°	317.7	16.0
50°-60°	189.1	9.5
60°-70°	98.7	5.0
70°-80°	43.9	2.2
80°-90°	9.6	0.5
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°	867.0	43.8
0°-40°	1321.6	66.7
0°-60°	1828.4	92.3
0°-90°	1980.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1130	1130	1130	1130	1130	
5°	1063	1099	1115	1166	1171	100
15°	954	1002	1086	1179	1197	270
25°	891	932	993	1061	1069	411
35°	751	760	715	728	722	466
45°	528	502	357	345	335	410
55°	373	349	137	119	115	331
65°	227	208	38	28	26	225
75°	105	92	12	7	7	113
85°	25	19	2	2	0	28
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°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1093.5	1106.6	1093.5	1097.8	1115.3	1099.3	1108.0	1108.0	1103.7	1113.9	1121.2
5°	1062.9	1076.0	1062.9	1068.7	1087.7	1071.6	1081.9	1078.9	1080.4	1089.1	1099.3
7.5°	1032.4	1042.5	1030.9	1038.2	1055.6	1042.5	1051.2	1051.2	1052.7	1065.8	1074.5
10°	1001.8	1010.4	1001.8	1007.6	1026.5	1014.9	1020.7	1022.1	1026.5	1038.2	1051.2
12.5°	974.0	981.4	972.6	981.4	997.3	985.7	993.0	994.5	998.8	1011.9	1026.5
15°	953.7	961.0	952.3	959.5	974.0	965.3	971.1	974.0	977.0	988.6	1001.8
17.5°	937.7	943.6	936.2	945.0	956.6	946.4	955.1	955.1	959.5	971.1	985.7
20°	920.2	926.0	920.2	927.5	940.6	931.9	939.1	939.1	943.6	956.6	969.7
22.5°	904.2	907.1	904.2	910.0	923.1	915.8	920.2	921.7	926.0	937.7	949.3
25°	891.0	896.9	894.0	899.8	908.5	901.3	905.7	907.1	911.4	921.7	931.9
27.5°	876.5	879.4	876.5	883.8	891.0	885.2	889.6	888.2	891.0	899.8	908.5
30°	847.4	850.4	850.4	854.6	860.5	857.6	862.0	857.6	860.5	867.8	876.5
32.5°	805.2	806.7	808.1	812.5	816.8	812.5	815.4	815.4	815.4	821.2	827.0
35°	751.3	754.2	752.8	755.7	760.0	758.6	758.6	757.1	754.2	757.1	760.0
37.5°	690.2	685.7	685.7	690.2	693.1	687.3	690.2	687.3	687.3	688.7	688.7
40°	626.1	621.7	626.1	627.5	628.9	626.1	624.7	621.7	617.4	618.8	615.9
42.5°	572.2	569.3	570.8	570.8	572.2	569.3	570.8	564.9	560.5	557.6	553.3
45°	528.5	524.2	528.5	525.6	525.6	524.2	522.7	519.8	514.0	509.6	502.3
47.5°	487.8	487.8	489.2	489.2	489.2	486.3	486.3	480.5	474.7	468.8	458.6
50°	454.3	451.4	457.2	457.2	452.8	451.4	452.8	445.5	441.2	433.9	423.7
52.5°	417.9	417.9	419.3	419.3	417.9	414.9	416.4	410.6	406.2	399.0	388.7
55°	372.7	369.9	374.2	374.2	372.7	371.3	372.7	368.4	364.0	358.2	349.4
57.5°	321.8	320.3	323.3	324.7	321.8	321.8	323.3	318.9	317.4	311.6	302.8
60°	283.9	282.5	285.4	286.9	283.9	283.9	283.9	278.0	275.2	269.3	263.5
62.5°	257.7	256.3	259.1	257.7	256.3	254.8	256.3	250.5	247.5	241.8	235.9
65°	227.1	228.6	230.1	230.1	228.6	227.1	227.1	224.3	221.3	215.5	208.2
67.5°	198.0	198.0	199.5	200.9	199.5	199.5	199.5	195.1	192.2	187.8	179.1
70°	167.5	166.0	170.4	170.4	167.5	168.9	167.5	166.0	163.1	157.2	150.0
72.5°	135.4	135.4	136.9	136.9	135.4	135.4	135.4	133.9	129.6	126.6	119.4
75°	104.9	104.9	106.3	107.7	104.9	104.9	106.3	103.4	100.4	96.1	91.8
77.5°	78.7	77.1	78.7	78.7	77.1	77.1	77.1	75.7	74.3	69.8	65.5
80°	55.3	53.9	55.3	55.3	55.3	53.9	53.9	52.4	52.4	49.5	45.1
82.5°	37.8	36.4	37.8	37.8	37.8	36.4	36.4	36.4	35.0	33.5	30.6
85°	24.8	23.3	23.3	24.8	23.3	23.3	23.3	23.3	21.8	20.3	18.9
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.3	10.3	10.3	8.7
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°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1115.3	1112.4	1121.2	1118.2	1119.7	1112.4	1124.0	1118.2	1125.5	1118.2	1132.8
5°	1096.4	1093.5	1106.6	1105.1	1106.6	1100.8	1113.9	1112.4	1121.2	1115.3	1131.3
7.5°	1076.0	1073.1	1087.7	1089.1	1092.0	1086.2	1103.7	1103.7	1112.4	1110.9	1128.4
10°	1052.7	1054.1	1068.7	1071.6	1077.5	1074.5	1090.5	1095.0	1106.6	1105.1	1127.0
12.5°	1030.9	1030.9	1049.8	1055.6	1059.9	1058.5	1077.5	1083.3	1096.4	1099.3	1119.7
15°	1009.0	1010.4	1027.9	1036.6	1042.5	1041.1	1061.4	1068.7	1084.7	1086.2	1110.9
17.5°	991.5	990.1	1009.0	1016.3	1025.1	1023.6	1045.4	1054.1	1070.2	1074.5	1097.8
20°	977.0	975.6	993.0	1001.8	1007.6	1006.2	1027.9	1038.2	1052.7	1055.6	1078.9
22.5°	959.5	956.6	974.0	981.4	987.2	985.7	1004.6	1011.9	1026.5	1029.4	1051.2
25°	939.1	936.2	952.3	956.6	961.0	958.1	974.0	978.4	990.1	993.0	1014.9
27.5°	915.8	908.5	921.7	921.7	924.6	920.2	931.9	936.2	946.4	946.4	966.8
30°	879.4	869.3	876.5	875.1	876.5	870.7	878.0	879.4	886.7	885.2	899.8
32.5°	828.4	813.9	818.3	813.9	809.6	800.9	809.6	806.7	812.5	806.7	819.7
35°	758.6	744.1	742.6	736.8	732.4	725.1	725.1	717.9	719.3	714.9	723.6
37.5°	682.9	664.0	661.0	649.5	642.1	633.4	633.4	627.5	620.2	617.4	624.7
40°	608.6	588.2	581.0	562.1	554.8	546.0	540.1	532.9	530.1	518.4	524.2
42.5°	544.6	522.7	506.7	486.3	479.0	465.9	457.2	448.5	444.1	431.0	436.8
45°	490.7	464.5	447.0	420.7	410.6	396.0	382.9	372.7	362.6	356.7	353.8
47.5°	445.5	417.9	394.6	365.4	349.4	336.4	318.9	308.6	295.6	288.3	283.9
50°	407.7	377.1	350.9	317.4	301.4	286.9	266.5	250.5	238.8	227.1	224.3
52.5°	374.2	342.2	313.1	275.2	256.3	238.8	217.0	199.5	189.2	176.2	174.7
55°	334.8	307.2	275.2	235.9	217.0	199.5	176.2	158.7	145.6	136.9	133.9
57.5°	292.7	266.5	235.9	196.5	177.6	158.7	136.9	120.8	109.1	101.9	100.4
60°	253.3	228.6	199.5	160.2	141.2	125.2	101.9	85.9	75.7	69.8	67.0
62.5°	224.3	200.9	173.3	136.9	119.4	103.4	81.6	67.0	58.2	52.4	49.5
65°	196.5	173.3	148.5	115.0	100.4	85.9	65.5	52.4	43.7	37.8	35.0
67.5°	167.5	147.0	123.8	96.1	81.6	69.8	52.4	40.8	33.5	29.1	26.2
70°	138.3	119.4	100.4	77.1	67.0	55.3	40.8	32.0	24.8	21.8	18.9
72.5°	109.1	94.6	78.7	59.7	51.0	43.7	32.0	23.3	18.9	16.1	13.1
75°	81.6	71.3	58.2	45.1	37.8	32.0	23.3	17.5	14.5	11.7	10.3
77.5°	58.2	49.5	40.8	30.6	27.6	23.3	16.1	13.1	10.3	7.3	5.8
80°	39.3	35.0	27.6	21.8	17.5	16.1	11.7	8.7	5.8	4.4	4.4
82.5°	26.2	21.8	17.5	13.1	11.7	10.3	7.3	5.8	4.4	2.9	2.9
85°	16.1	13.1	10.3	7.3	7.3	5.8	4.4	2.9	1.5	1.5	1.5
87.5°	7.3	5.8	4.4	2.9	2.9	1.5	1.5	1.5	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°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1144.5	1135.7	1129.8	1137.1	1140.0	1135.7	1140.0	1147.3	1154.6	1156.1	1135.7
5°	1145.9	1137.1	1134.2	1142.9	1144.5	1142.9	1147.3	1157.6	1166.3	1169.2	1148.8
7.5°	1145.9	1140.0	1138.6	1148.8	1150.3	1148.8	1156.1	1167.7	1176.5	1182.3	1161.9
10°	1142.9	1140.0	1141.5	1150.3	1153.2	1153.2	1163.4	1176.5	1185.2	1191.0	1170.6
12.5°	1138.6	1138.6	1138.6	1148.8	1151.8	1153.2	1161.9	1179.3	1185.2	1194.0	1173.5
15°	1131.3	1131.3	1131.3	1141.5	1145.9	1145.9	1156.1	1172.1	1179.3	1188.1	1167.7
17.5°	1118.2	1118.2	1119.7	1128.4	1132.8	1132.8	1142.9	1160.5	1164.8	1175.0	1154.6
20°	1099.3	1099.3	1100.8	1109.5	1113.9	1110.9	1124.0	1138.6	1142.9	1151.8	1131.3
22.5°	1071.6	1071.6	1071.6	1080.4	1083.3	1081.9	1095.0	1108.0	1108.0	1119.7	1097.8
25°	1030.9	1033.8	1030.9	1039.6	1042.5	1041.1	1052.7	1064.4	1061.4	1074.5	1052.7
27.5°	981.4	979.8	979.8	987.2	987.2	985.7	994.5	1007.6	1004.6	1013.4	993.0
30°	913.0	917.2	910.0	920.2	915.8	913.0	918.8	930.4	926.0	933.3	917.2
32.5°	834.3	828.4	828.4	828.4	831.4	824.1	829.9	835.7	831.4	838.7	821.2
35°	731.0	732.4	728.0	729.5	731.0	722.2	728.0	733.8	728.0	732.4	716.3
37.5°	627.5	628.9	618.8	624.7	618.8	615.9	621.7	624.7	618.8	623.1	605.7
40°	524.2	521.3	519.8	519.8	521.3	514.0	518.4	522.7	518.4	521.3	505.3
42.5°	433.9	432.5	429.6	431.0	426.6	425.2	426.6	431.0	426.6	429.6	417.9
45°	355.3	352.3	348.0	349.4	349.4	342.2	346.5	349.4	345.1	346.5	336.4
47.5°	282.5	278.0	278.0	276.6	276.6	273.8	278.0	276.6	272.2	275.2	265.0
50°	219.8	217.0	217.0	217.0	217.0	212.6	214.0	217.0	212.6	212.6	206.7
52.5°	171.8	167.5	164.5	164.5	164.5	163.1	163.1	164.5	160.2	160.2	158.7
55°	129.6	128.1	123.8	123.8	123.8	119.4	120.8	120.8	119.4	119.4	115.0
57.5°	96.1	91.8	88.8	88.8	85.9	85.9	84.4	85.9	83.0	83.0	80.1
60°	64.0	61.1	59.7	58.2	58.2	56.8	58.2	56.8	56.8	55.3	53.9
62.5°	46.5	43.7	40.8	40.8	40.8	39.3	39.3	39.3	39.3	39.3	37.8
65°	33.5	30.6	30.6	29.1	29.1	27.6	27.6	27.6	27.6	27.6	26.2
67.5°	23.3	21.8	20.3	20.3	20.3	20.3	20.3	20.3	18.9	18.9	18.9
70°	17.5	16.1	14.5	14.5	14.5	14.5	14.5	13.1	14.5	14.5	13.1
72.5°	11.7	11.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
75°	8.7	8.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
77.5°	5.8	5.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	4.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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: P857461

CATALOG NUMBER: LX4C25D010 EX4C259830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1157.6	1156.1	1153.2	1157.6	1145.9	1141.5	1140.0	1153.2
5°	1173.5	1170.6	1170.6	1175.0	1161.9	1159.0	1156.1	1170.6
7.5°	1188.1	1185.2	1185.2	1189.6	1177.9	1175.0	1172.1	1186.6
10°	1196.8	1196.8	1196.8	1199.7	1189.6	1186.6	1185.2	1199.7
12.5°	1201.3	1201.3	1199.7	1205.5	1192.5	1192.5	1189.6	1204.1
15°	1195.4	1195.4	1195.4	1199.7	1188.1	1185.2	1185.2	1196.8
17.5°	1180.8	1180.8	1179.3	1183.8	1170.6	1170.6	1169.2	1182.3
20°	1159.0	1159.0	1156.1	1161.9	1148.8	1144.5	1142.9	1156.1
22.5°	1124.0	1122.6	1121.2	1124.0	1112.4	1109.5	1108.0	1119.7
25°	1078.9	1077.5	1074.5	1077.5	1064.4	1059.9	1059.9	1068.7
27.5°	1014.9	1014.9	1010.4	1014.9	1000.3	998.8	997.3	1007.6
30°	936.2	930.4	927.5	933.3	918.8	918.8	915.8	926.0
32.5°	838.7	832.9	831.4	834.3	821.2	816.8	822.6	828.4
35°	726.6	728.0	722.2	722.2	710.5	712.0	713.5	722.2
37.5°	618.8	615.9	614.4	615.9	607.2	604.2	601.4	610.1
40°	518.4	511.1	509.6	509.6	502.3	500.9	502.3	506.7
42.5°	423.7	422.2	416.4	419.3	412.1	414.9	413.5	413.5
45°	342.2	343.6	337.8	342.2	336.4	332.0	332.0	334.8
47.5°	270.8	270.8	269.3	269.3	265.0	266.5	263.5	267.9
50°	209.6	209.6	206.7	208.2	205.3	205.3	203.9	205.3
52.5°	160.2	158.7	158.7	157.2	154.4	155.8	157.2	154.4
55°	116.5	117.9	115.0	116.5	113.6	115.0	113.6	115.0
57.5°	80.1	81.6	78.7	81.6	78.7	80.1	78.7	78.7
60°	55.3	55.3	53.9	55.3	53.9	53.9	52.4	55.3
62.5°	37.8	37.8	37.8	37.8	37.8	36.4	37.8	37.8
65°	27.6	26.2	26.2	26.2	26.2	26.2	26.2	26.2
67.5°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
70°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
72.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
75°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	0.0	1.5	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)