

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: P857624

Luminaire Tested: **LX4C30D010 EX4C309827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857624
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: LX4C30D010 EX4C309827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

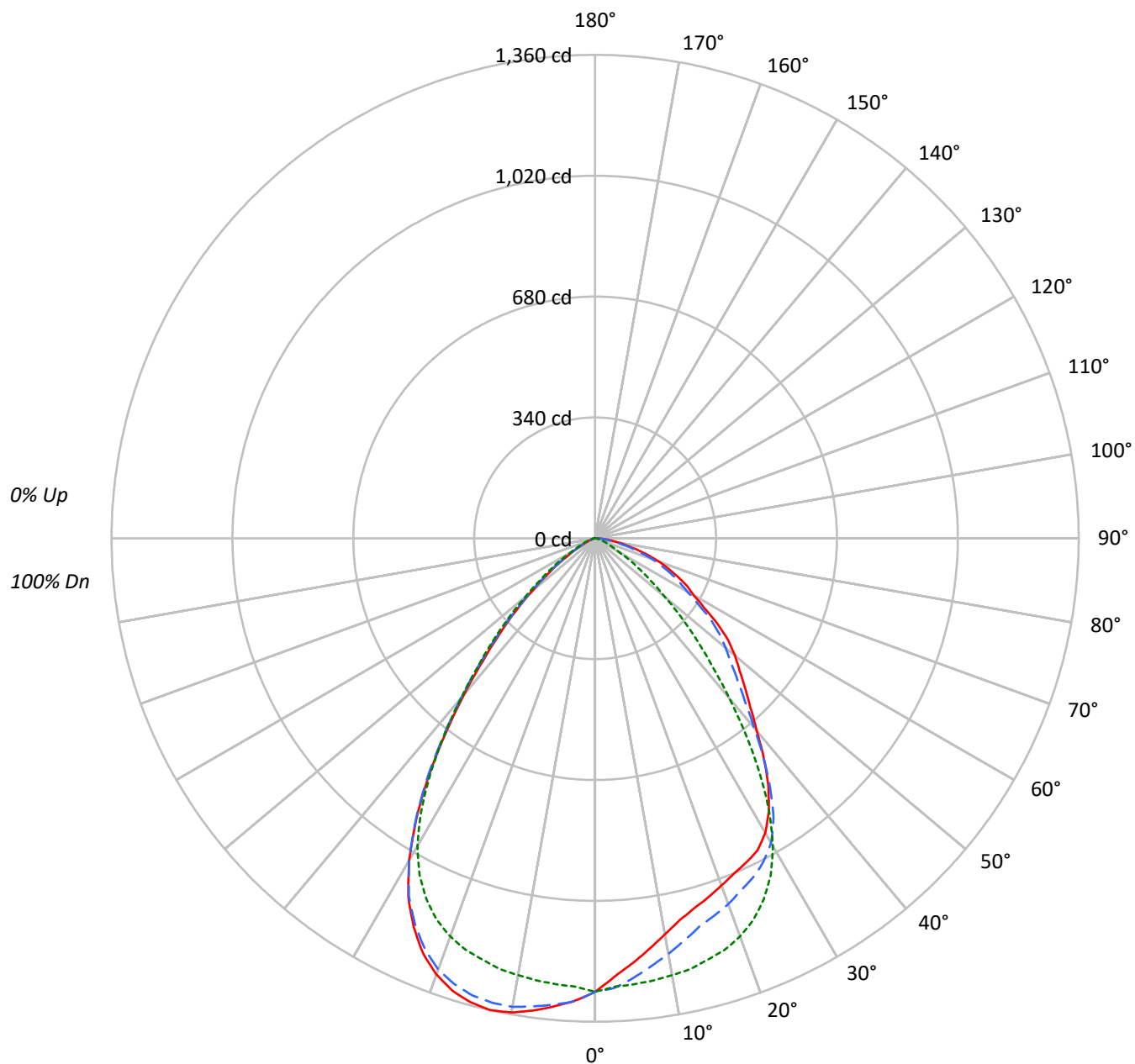
Lumens per Lamp: N/A
Luminaire Lumens: 2236.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	156749	156749	156749
5°	148012	155313	163020
10°	141116	155674	168997
15°	136981	156008	171894
20°	135850	155840	170678
25°	136394	152010	163586
30°	135745	141802	148342
35°	127240	121076	122306
40°	113384	93867	91766
45°	103689	69983	65691
50°	98029	49043	44322
55°	90152	33092	27802
60°	78774	19386	15332
65°	74593	12413	8605
70°	67925	8872	5316
75°	56201	6218	3940
80°	44147	3537	2335
85°	39468	2396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	5.4
10°-20°	345.8	15.5
20°-30°	512.7	22.9
30°-40°	513.4	23.0
40°-50°	358.8	16.0
50°-60°	213.5	9.5
60°-70°	111.4	5.0
70°-80°	49.5	2.2
80°-90°	10.8	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°	979.1	43.8
0°-40°	1492.4	66.7
0°-60°	2064.7	92.3
0°-90°	2236.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1276	1276	1276	1276	1276	
5°	1200	1241	1259	1317	1322	113
15°	1077	1131	1227	1332	1352	305
25°	1006	1052	1121	1199	1207	464
35°	848	858	807	822	816	526
45°	597	567	403	390	378	463
55°	421	395	154	135	130	373
65°	257	235	43	31	30	254
75°	118	104	13	8	8	128
85°	28	21	2	2	0	31
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°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1234.8	1249.6	1234.8	1239.7	1259.4	1241.3	1251.2	1251.2	1246.3	1257.8	1266.0
5°	1200.2	1215.0	1200.2	1206.8	1228.2	1210.1	1221.6	1218.3	1220.0	1229.9	1241.3
7.5°	1165.8	1177.2	1164.1	1172.3	1192.0	1177.2	1187.1	1187.1	1188.8	1203.5	1213.4
10°	1131.2	1141.1	1131.2	1137.8	1159.2	1146.0	1152.6	1154.2	1159.2	1172.3	1187.1
12.5°	1100.0	1108.2	1098.4	1108.2	1126.3	1113.1	1121.4	1123.0	1127.9	1142.8	1159.2
15°	1077.0	1085.2	1075.4	1083.5	1100.0	1090.1	1096.7	1100.0	1103.2	1116.4	1131.2
17.5°	1058.9	1065.5	1057.2	1067.1	1080.2	1068.8	1078.6	1078.6	1083.5	1096.7	1113.1
20°	1039.1	1045.7	1039.1	1047.4	1062.2	1052.3	1060.5	1060.5	1065.5	1080.2	1095.1
22.5°	1021.0	1024.3	1021.0	1027.6	1042.4	1034.2	1039.1	1040.8	1045.7	1058.9	1072.1
25°	1006.2	1012.8	1009.5	1016.1	1025.9	1017.7	1022.6	1024.3	1029.2	1040.8	1052.3
27.5°	989.7	993.0	989.7	998.0	1006.2	999.6	1004.6	1002.9	1006.2	1016.1	1025.9
30°	956.9	960.2	960.2	965.1	971.7	968.4	973.3	968.4	971.7	979.9	989.7
32.5°	909.2	910.9	912.5	917.4	922.3	917.4	920.7	920.7	920.7	927.3	933.9
35°	848.4	851.7	850.0	853.3	858.2	856.6	856.6	854.9	851.7	854.9	858.2
37.5°	779.4	774.4	774.4	779.4	782.6	776.1	779.4	776.1	776.1	777.7	777.7
40°	707.0	702.1	707.0	708.7	710.3	707.0	705.4	702.1	697.1	698.8	695.5
42.5°	646.2	642.9	644.6	644.6	646.2	642.9	644.6	638.0	633.0	629.7	624.8
45°	596.8	591.9	596.8	593.5	593.5	591.9	590.2	586.9	580.3	575.5	567.2
47.5°	550.8	550.8	552.4	552.4	552.4	549.1	549.1	542.5	535.9	529.4	517.9
50°	512.9	509.7	516.2	516.2	511.3	509.7	511.3	503.1	498.2	489.9	478.4
52.5°	471.8	471.8	473.5	473.5	471.8	468.5	470.2	463.7	458.7	450.5	439.0
55°	420.9	417.6	422.5	422.5	420.9	419.3	420.9	416.0	411.1	404.5	394.6
57.5°	363.4	361.7	365.0	366.7	363.4	363.4	365.0	360.1	358.4	351.9	342.0
60°	320.6	319.0	322.3	324.0	320.6	320.6	320.6	314.0	310.7	304.2	297.6
62.5°	291.0	289.4	292.7	291.0	289.4	287.7	289.4	282.8	279.6	273.0	266.4
65°	256.6	258.2	259.8	259.8	258.2	256.6	256.6	253.3	250.0	243.4	235.2
67.5°	223.6	223.6	225.3	226.9	225.3	225.3	225.3	220.3	217.0	212.1	202.2
70°	189.1	187.4	192.3	192.3	189.1	190.7	189.1	187.4	184.1	177.5	169.3
72.5°	152.8	152.8	154.5	154.5	152.8	152.8	152.8	151.2	146.3	143.0	134.8
75°	118.4	118.4	120.0	121.7	118.4	118.4	120.0	116.7	113.4	108.5	103.5
77.5°	88.8	87.1	88.8	88.8	87.1	87.1	87.1	85.5	83.8	78.9	74.0
80°	62.4	60.8	62.4	62.4	62.4	60.8	60.8	59.1	59.1	55.9	51.0
82.5°	42.7	41.1	42.7	42.7	42.7	41.1	41.1	41.1	39.4	37.8	34.5
85°	28.0	26.3	26.3	28.0	26.3	26.3	26.3	26.3	24.7	23.0	21.4
87.5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	11.5	11.5	11.5	9.9
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°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1259.4	1256.2	1266.0	1262.7	1264.3	1256.2	1269.3	1262.7	1270.9	1262.7	1279.2
5°	1238.1	1234.8	1249.6	1247.9	1249.6	1243.0	1257.8	1256.2	1266.0	1259.4	1277.5
7.5°	1215.0	1211.8	1228.2	1229.9	1233.2	1226.6	1246.3	1246.3	1256.2	1254.5	1274.2
10°	1188.8	1190.4	1206.8	1210.1	1216.7	1213.4	1231.5	1236.4	1249.6	1247.9	1272.6
12.5°	1164.1	1164.1	1185.5	1192.0	1196.9	1195.3	1216.7	1223.3	1238.1	1241.3	1264.3
15°	1139.5	1141.1	1160.8	1170.7	1177.2	1175.6	1198.6	1206.8	1224.9	1226.6	1254.5
17.5°	1119.7	1118.1	1139.5	1147.6	1157.5	1155.9	1180.5	1190.4	1208.5	1213.4	1239.7
20°	1103.2	1101.6	1121.4	1131.2	1137.8	1136.2	1160.8	1172.3	1188.8	1192.0	1218.3
22.5°	1083.5	1080.2	1100.0	1108.2	1114.8	1113.1	1134.5	1142.8	1159.2	1162.5	1187.1
25°	1060.5	1057.2	1075.4	1080.2	1085.2	1081.9	1100.0	1104.9	1118.1	1121.4	1146.0
27.5°	1034.2	1025.9	1040.8	1040.8	1044.1	1039.1	1052.3	1057.2	1068.8	1068.8	1091.8
30°	993.0	981.6	989.7	988.1	989.7	983.2	991.4	993.0	1001.3	999.6	1016.1
32.5°	935.5	919.1	924.0	919.1	914.2	904.3	914.2	910.9	917.4	910.9	925.6
35°	856.6	840.2	838.5	831.9	827.0	818.8	818.8	810.6	812.2	807.3	817.2
37.5°	771.1	749.8	746.5	733.4	725.1	715.2	715.2	708.7	700.4	697.1	705.4
40°	687.3	664.3	656.1	634.7	626.4	616.6	610.0	601.7	598.5	585.3	591.9
42.5°	614.9	590.2	572.2	549.1	540.9	526.1	516.2	506.4	501.5	486.7	493.2
45°	554.1	524.5	504.8	475.1	463.7	447.2	432.4	420.9	409.4	402.8	399.5
47.5°	503.1	471.8	445.5	412.7	394.6	379.8	360.1	348.6	333.8	325.6	320.6
50°	460.4	425.8	396.3	358.4	340.4	324.0	300.9	282.8	269.7	256.6	253.3
52.5°	422.5	386.4	353.5	310.7	289.4	269.7	245.0	225.3	213.8	198.9	197.3
55°	378.1	347.0	310.7	266.4	245.0	225.3	198.9	179.2	164.4	154.5	151.2
57.5°	330.5	300.9	266.4	222.0	200.6	179.2	154.5	136.4	123.3	115.1	113.4
60°	286.1	258.2	225.3	180.8	159.4	141.4	115.1	97.0	85.5	78.9	75.6
62.5°	253.3	226.9	195.6	154.5	134.8	116.7	92.1	75.6	65.7	59.1	55.9
65°	222.0	195.6	167.7	129.8	113.4	97.0	74.0	59.1	49.3	42.7	39.4
67.5°	189.1	166.1	139.7	108.5	92.1	78.9	59.1	46.0	37.8	32.9	29.6
70°	156.1	134.8	113.4	87.1	75.6	62.4	46.0	36.1	28.0	24.7	21.4
72.5°	123.3	106.8	88.8	67.4	57.5	49.3	36.1	26.3	21.4	18.1	14.8
75°	92.1	80.5	65.7	51.0	42.7	36.1	26.3	19.7	16.4	13.1	11.5
77.5°	65.7	55.9	46.0	34.5	31.3	26.3	18.1	14.8	11.5	8.3	6.6
80°	44.4	39.4	31.3	24.7	19.7	18.1	13.1	9.9	6.6	5.0	5.0
82.5°	29.6	24.7	19.7	14.8	13.1	11.5	8.3	6.6	5.0	3.3	3.3
85°	18.1	14.8	11.5	8.3	8.3	6.6	5.0	3.3	1.7	1.7	1.7
87.5°	8.3	6.6	5.0	3.3	3.3	1.7	1.7	1.7	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°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1292.3	1282.4	1275.9	1284.1	1287.3	1282.4	1287.3	1295.6	1303.8	1305.5	1282.4
5°	1294.0	1284.1	1280.8	1290.6	1292.3	1290.6	1295.6	1307.1	1317.0	1320.3	1297.3
7.5°	1294.0	1287.3	1285.7	1297.3	1298.9	1297.3	1305.5	1318.6	1328.5	1335.0	1312.0
10°	1290.6	1287.3	1289.0	1298.9	1302.2	1302.2	1313.7	1328.5	1338.3	1344.9	1321.9
12.5°	1285.7	1285.7	1285.7	1297.3	1300.6	1302.2	1312.0	1331.7	1338.3	1348.2	1325.2
15°	1277.5	1277.5	1277.5	1289.0	1294.0	1294.0	1305.5	1323.6	1331.7	1341.6	1318.6
17.5°	1262.7	1262.7	1264.3	1274.2	1279.2	1279.2	1290.6	1310.4	1315.3	1326.8	1303.8
20°	1241.3	1241.3	1243.0	1252.9	1257.8	1254.5	1269.3	1285.7	1290.6	1300.6	1277.5
22.5°	1210.1	1210.1	1210.1	1220.0	1223.3	1221.6	1236.4	1251.2	1251.2	1264.3	1239.7
25°	1164.1	1167.4	1164.1	1173.9	1177.2	1175.6	1188.8	1201.9	1198.6	1213.4	1188.8
27.5°	1108.2	1106.5	1106.5	1114.8	1114.8	1113.1	1123.0	1137.8	1134.5	1144.4	1121.4
30°	1030.9	1035.8	1027.6	1039.1	1034.2	1030.9	1037.5	1050.7	1045.7	1053.9	1035.8
32.5°	942.1	935.5	935.5	935.5	938.8	930.6	937.2	943.7	938.8	947.0	927.3
35°	825.4	827.0	822.1	823.8	825.4	815.5	822.1	828.7	822.1	827.0	808.9
37.5°	708.7	710.3	698.8	705.4	698.8	695.5	702.1	705.4	698.8	703.7	684.0
40°	591.9	588.6	586.9	586.9	588.6	580.3	585.3	590.2	585.3	588.6	570.5
42.5°	489.9	488.3	485.0	486.7	481.7	480.1	481.7	486.7	481.7	485.0	471.8
45°	401.1	397.9	393.0	394.6	394.6	386.4	391.3	394.6	389.7	391.3	379.8
47.5°	319.0	314.0	314.0	312.4	312.4	309.1	314.0	312.4	307.5	310.7	299.3
50°	248.3	245.0	245.0	245.0	245.0	240.1	241.7	245.0	240.1	240.1	233.5
52.5°	194.0	189.1	185.8	185.8	185.8	184.1	184.1	185.8	180.8	180.8	179.2
55°	146.3	144.7	139.7	139.7	139.7	134.8	136.4	136.4	134.8	134.8	129.8
57.5°	108.5	103.5	100.3	100.3	97.0	97.0	95.4	97.0	93.7	93.7	90.4
60°	72.3	69.0	67.4	65.7	65.7	64.1	65.7	64.1	64.1	62.4	60.8
62.5°	52.6	49.3	46.0	46.0	46.0	44.4	44.4	44.4	44.4	44.4	42.7
65°	37.8	34.5	34.5	32.9	32.9	31.3	31.3	31.3	31.3	31.3	29.6
67.5°	26.3	24.7	23.0	23.0	23.0	23.0	23.0	23.0	21.4	21.4	21.4
70°	19.7	18.1	16.4	16.4	16.4	16.4	16.4	14.8	16.4	16.4	14.8
72.5°	13.1	13.1	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
75°	9.9	9.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	6.6	6.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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: P857624

CATALOG NUMBER: LX4C30D010 EX4C309827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1307.1	1305.5	1302.2	1307.1	1294.0	1289.0	1287.3	1302.2
5°	1325.2	1321.9	1321.9	1326.8	1312.0	1308.7	1305.5	1321.9
7.5°	1341.6	1338.3	1338.3	1343.3	1330.1	1326.8	1323.6	1340.0
10°	1351.5	1351.5	1351.5	1354.7	1343.3	1340.0	1338.3	1354.7
12.5°	1356.4	1356.4	1354.7	1361.3	1346.6	1346.6	1343.3	1359.7
15°	1349.8	1349.8	1349.8	1354.7	1341.6	1338.3	1338.3	1351.5
17.5°	1333.4	1333.4	1331.7	1336.7	1321.9	1321.9	1320.3	1335.0
20°	1308.7	1308.7	1305.5	1312.0	1297.3	1292.3	1290.6	1305.5
22.5°	1269.3	1267.6	1266.0	1269.3	1256.2	1252.9	1251.2	1264.3
25°	1218.3	1216.7	1213.4	1216.7	1201.9	1196.9	1196.9	1206.8
27.5°	1146.0	1146.0	1141.1	1146.0	1129.5	1127.9	1126.3	1137.8
30°	1057.2	1050.7	1047.4	1053.9	1037.5	1037.5	1034.2	1045.7
32.5°	947.0	940.5	938.8	942.1	927.3	922.3	928.9	935.5
35°	820.5	822.1	815.5	815.5	802.4	804.0	805.7	815.5
37.5°	698.8	695.5	693.9	695.5	685.7	682.4	679.1	689.0
40°	585.3	577.1	575.5	575.5	567.2	565.6	567.2	572.2
42.5°	478.4	476.8	470.2	473.5	465.3	468.5	466.9	466.9
45°	386.4	388.0	381.4	386.4	379.8	374.9	374.9	378.1
47.5°	305.8	305.8	304.2	304.2	299.3	300.9	297.6	302.6
50°	236.8	236.8	233.5	235.2	231.9	231.9	230.2	231.9
52.5°	180.8	179.2	179.2	177.5	174.2	175.9	177.5	174.2
55°	131.5	133.1	129.8	131.5	128.2	129.8	128.2	129.8
57.5°	90.4	92.1	88.8	92.1	88.8	90.4	88.8	88.8
60°	62.4	62.4	60.8	62.4	60.8	60.8	59.1	62.4
62.5°	42.7	42.7	42.7	42.7	42.7	41.1	42.7	42.7
65°	31.3	29.6	29.6	29.6	29.6	29.6	29.6	29.6
67.5°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
70°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
72.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	0.0	1.7	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)