

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: P857596

Luminaire Tested: **LX4C30D010 EX4C309050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309050 4LBLWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

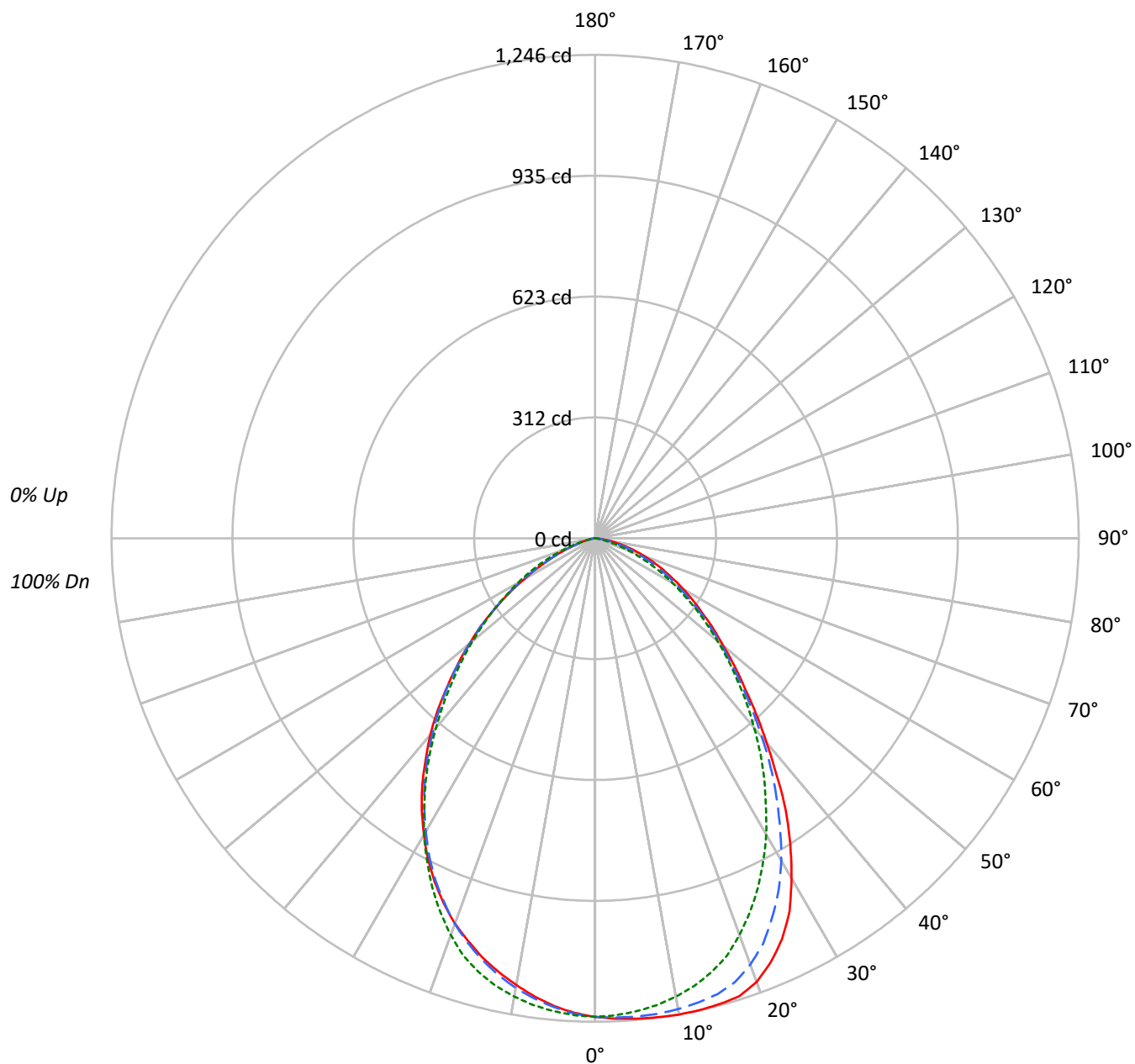
Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64	86	77	69	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57	80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	44
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	38	61	50	42	37		48	42	37		47	41	37		47	41	37
10	59	47	39	34	58	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	151564	151564	151564
5°	153253	150910	149282
10°	155499	149636	145856
15°	158056	147257	142361
20°	159056	142243	138151
25°	154504	134564	132504
30°	143575	125063	125134
35°	128515	114012	116427
40°	110032	102206	105927
45°	94724	90102	93490
50°	82337	78438	80808
55°	72460	67491	66870
60°	64474	56316	51893
65°	56540	45116	37529
70°	48564	31861	25395
75°	39398	18465	14857
80°	28229	8065	7358
85°	10713	3383	3383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	5.0
10°-20°	329.1	14.2
20°-30°	470.0	20.2
30°-40°	491.6	21.1
40°-50°	411.9	17.7
50°-60°	288.3	12.4
60°-70°	157.0	6.8
70°-80°	54.5	2.3
80°-90°	6.3	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°	915.4	39.4
0°-40°	1407.0	60.5
0°-60°	2107.3	90.6
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1234	1234	1234	1234	1234	
5°	1243	1237	1224	1213	1210	119
15°	1243	1217	1158	1125	1119	351
25°	1140	1079	993	973	978	520
35°	857	815	760	766	776	531
45°	545	533	519	536	538	424
55°	338	327	315	315	312	306
65°	194	178	155	130	129	194
75°	83	67	39	31	31	90
85°	8	4	2	2	2	14
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°	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1239.4	1238.0	1238.4	1238.4	1238.4	1238.0	1238.4	1238.0	1238.0	1237.5	1236.5
5°	1242.7	1241.8	1241.8	1241.8	1241.3	1240.8	1240.8	1240.3	1239.4	1238.9	1237.0
7.5°	1245.1	1244.1	1244.1	1243.7	1243.2	1242.7	1242.2	1240.8	1239.4	1238.4	1236.1
10°	1246.5	1245.1	1245.1	1244.1	1243.2	1242.7	1241.8	1239.9	1238.0	1235.6	1232.3
12.5°	1245.6	1244.1	1243.7	1242.7	1240.8	1239.9	1238.9	1236.5	1233.2	1229.9	1225.6
15°	1242.7	1241.8	1240.8	1239.4	1237.0	1235.6	1234.7	1230.9	1226.6	1221.8	1216.6
17.5°	1237.0	1235.6	1233.7	1231.8	1228.5	1227.1	1224.7	1219.9	1213.8	1207.1	1199.1
20°	1216.6	1215.7	1213.8	1210.5	1205.2	1203.3	1200.0	1193.8	1185.8	1177.7	1169.2
22.5°	1182.9	1181.5	1178.7	1175.8	1171.1	1167.7	1164.9	1156.4	1147.3	1138.8	1130.7
25°	1139.8	1138.3	1134.5	1130.7	1126.0	1120.3	1117.4	1110.8	1101.8	1090.9	1079.0
27.5°	1084.2	1079.5	1078.1	1073.8	1066.7	1064.8	1060.5	1052.0	1043.4	1033.9	1024.0
30°	1012.1	1012.1	1009.3	1007.4	1000.7	998.8	994.1	985.1	980.3	967.0	959.4
32.5°	935.7	934.8	932.4	931.0	927.2	923.9	919.1	914.4	903.9	897.3	886.8
35°	856.9	851.3	852.2	849.4	847.0	843.2	842.7	837.5	828.0	824.2	814.7
37.5°	767.3	764.9	768.2	763.9	761.6	762.0	758.3	754.9	751.1	744.5	742.6
40°	686.1	688.0	687.6	683.8	685.7	683.3	679.5	676.2	674.3	670.0	668.6
42.5°	613.5	610.7	609.7	609.7	610.2	610.2	608.3	605.9	605.9	601.7	597.4
45°	545.2	545.2	544.3	547.1	542.8	542.8	541.4	540.9	539.0	538.1	532.9
47.5°	486.4	485.9	485.4	484.9	484.5	484.5	481.6	479.2	478.8	475.9	473.1
50°	430.8	433.7	432.7	430.4	429.4	429.9	428.0	426.6	426.1	421.4	421.8
52.5°	384.3	383.9	384.8	383.4	381.0	381.5	379.6	377.7	375.8	373.4	371.5
55°	338.3	340.7	339.7	338.3	337.8	336.9	335.5	333.1	332.6	327.4	326.9
57.5°	299.9	299.4	298.5	296.1	295.6	294.2	294.2	292.3	289.4	286.6	284.2
60°	262.4	262.4	261.0	260.5	258.6	258.1	257.7	255.8	252.4	250.1	246.3
62.5°	226.3	227.3	226.3	224.9	223.5	221.6	220.6	219.2	216.4	214.0	210.7
65°	194.5	194.1	193.6	191.7	191.2	189.3	188.9	186.0	183.2	181.3	177.5
67.5°	164.2	162.8	162.8	161.8	160.9	159.4	158.5	155.6	152.3	150.4	146.6
70°	135.2	134.3	134.3	134.3	131.9	130.5	130.0	128.6	123.8	121.9	118.2
72.5°	108.7	108.2	107.7	106.3	104.9	104.9	103.0	100.1	97.7	95.4	92.5
75°	83.0	84.0	83.0	81.1	80.7	79.7	78.3	75.9	73.5	70.7	67.4
77.5°	60.7	59.8	58.8	58.8	57.9	56.0	55.5	53.6	50.8	48.9	45.6
80°	39.9	39.4	38.4	37.5	37.0	36.5	36.1	34.2	31.3	29.9	27.0
82.5°	21.8	21.4	21.4	20.9	19.5	19.5	19.0	17.1	15.7	14.7	13.3
85°	7.6	7.6	7.6	7.1	7.1	7.1	6.6	6.2	5.7	5.2	4.3
87.5°	0.9	0.5	0.9	0.5	0.9	0.5	0.5	0.5	0.5	0.5	0.5
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°	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1235.6	1234.7	1234.2	1233.7	1233.2	1232.8	1232.3	1231.3	1230.9	1230.4	1229.4
5°	1235.6	1233.7	1232.8	1231.3	1230.4	1229.4	1228.0	1226.6	1225.2	1223.7	1222.3
7.5°	1233.7	1230.9	1229.0	1226.1	1225.2	1223.7	1220.9	1219.0	1216.6	1213.8	1210.5
10°	1229.0	1225.6	1221.8	1218.0	1216.6	1214.2	1210.5	1207.1	1203.3	1199.5	1196.2
12.5°	1221.4	1216.1	1211.4	1206.2	1203.3	1201.0	1195.7	1191.0	1186.3	1182.0	1176.3
15°	1210.0	1203.8	1197.6	1190.5	1187.2	1184.4	1176.8	1171.1	1163.5	1157.8	1152.1
17.5°	1191.5	1182.0	1174.4	1165.4	1160.6	1157.3	1150.7	1141.6	1134.5	1128.4	1121.7
20°	1159.7	1150.7	1140.2	1130.3	1125.0	1120.8	1111.3	1101.8	1094.7	1088.0	1080.9
22.5°	1117.9	1106.5	1098.9	1086.6	1082.3	1077.1	1065.7	1057.2	1049.1	1042.5	1035.8
25°	1067.2	1057.2	1046.7	1035.4	1030.1	1024.0	1014.5	1005.5	1000.2	992.7	984.6
27.5°	1008.8	1000.7	987.9	977.9	972.7	968.0	959.0	950.9	943.3	938.1	930.5
30°	947.1	937.6	926.2	915.8	912.9	907.2	899.2	893.0	884.9	881.6	878.3
32.5°	879.2	868.3	859.8	853.2	847.5	842.7	838.4	828.5	827.1	818.5	817.6
35°	805.2	800.5	792.4	786.7	782.0	778.7	771.5	766.8	761.6	760.2	756.8
37.5°	735.5	729.8	722.2	717.0	713.6	713.2	708.0	705.1	701.3	699.4	695.6
40°	662.4	660.0	653.4	652.4	647.2	646.7	643.9	640.6	637.3	637.3	637.7
42.5°	595.0	592.2	589.3	586.0	583.2	583.2	581.7	580.8	579.8	578.4	580.8
45°	531.9	528.1	526.2	522.9	524.3	521.5	520.5	520.5	519.1	518.6	522.0
47.5°	473.1	468.8	466.9	466.0	466.0	466.4	462.2	463.6	463.1	464.1	465.5
50°	419.5	415.7	412.8	412.8	413.3	411.4	409.5	410.9	409.5	410.4	413.8
52.5°	369.6	365.8	364.4	364.4	361.6	361.1	362.0	360.1	360.6	361.1	363.0
55°	323.6	321.2	318.9	316.5	317.0	316.0	314.1	313.6	314.6	315.1	317.4
57.5°	282.3	279.0	275.7	274.7	273.8	273.8	271.4	270.9	271.9	269.5	269.5
60°	242.9	241.0	236.8	235.4	235.4	233.0	231.1	232.0	229.7	229.2	229.7
62.5°	206.4	205.0	202.1	199.3	198.3	197.4	195.0	194.1	193.1	191.2	188.4
65°	174.6	171.3	168.0	166.1	164.7	162.3	160.9	159.0	156.1	155.2	152.3
67.5°	142.8	139.5	136.2	134.8	133.3	131.9	129.5	127.2	123.8	120.0	116.7
70°	114.8	110.6	108.7	104.9	103.9	102.0	98.7	96.3	93.0	88.7	85.4
72.5°	87.8	84.9	82.1	78.8	76.4	75.0	72.1	68.3	64.5	62.2	58.8
75°	63.1	61.7	57.9	54.1	53.1	51.2	47.9	45.6	42.7	38.9	36.1
77.5°	42.7	39.9	37.5	34.2	33.2	31.3	29.4	27.0	25.1	22.8	20.9
80°	25.1	22.8	21.4	19.0	18.0	17.1	15.7	13.8	12.3	11.4	10.9
82.5°	12.3	10.4	10.0	8.5	8.1	7.6	6.6	6.2	5.2	5.2	5.2
85°	4.3	3.3	3.3	2.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5
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°	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1229.0	1228.5	1228.0	1227.5	1227.5	1227.1	1227.1	1226.6	1226.6	1226.1	1226.1
5°	1220.4	1219.0	1218.0	1217.1	1217.1	1215.7	1214.7	1213.8	1213.3	1213.3	1212.3
7.5°	1208.6	1206.7	1204.8	1203.3	1202.9	1200.5	1198.6	1198.6	1196.7	1195.7	1194.8
10°	1192.9	1189.6	1186.7	1185.3	1183.4	1182.0	1179.6	1178.2	1176.8	1174.4	1173.9
12.5°	1171.5	1169.2	1164.9	1163.0	1162.1	1159.2	1155.4	1153.5	1153.0	1151.1	1149.7
15°	1147.3	1142.1	1138.3	1136.0	1136.0	1131.2	1129.3	1126.5	1124.6	1123.1	1122.7
17.5°	1116.0	1110.8	1107.0	1103.7	1102.7	1098.9	1096.1	1095.1	1092.8	1093.7	1091.4
20°	1075.7	1071.4	1068.6	1064.3	1064.3	1061.9	1061.0	1058.6	1057.7	1056.7	1057.7
22.5°	1032.5	1027.3	1022.5	1022.1	1022.1	1018.8	1018.3	1017.8	1015.9	1017.3	1016.9
25°	981.7	977.9	975.1	974.6	974.6	972.7	970.8	971.8	973.2	972.7	974.1
27.5°	929.1	925.3	924.3	923.9	922.9	922.4	923.4	923.4	924.8	926.7	928.6
30°	872.1	871.2	869.8	869.3	868.3	870.7	871.7	873.1	872.6	875.5	877.4
32.5°	815.2	813.3	812.8	813.8	815.2	814.7	817.6	818.5	819.5	822.8	824.2
35°	757.8	757.3	756.4	756.4	756.8	760.6	760.6	763.9	765.8	766.8	770.6
37.5°	696.1	698.0	698.9	700.4	700.8	702.3	703.2	706.5	708.4	710.3	712.2
40°	639.6	638.7	642.9	640.1	641.1	645.3	647.2	646.7	649.6	652.4	654.3
42.5°	579.4	580.8	581.7	582.7	585.1	585.5	587.9	591.2	592.2	595.5	596.4
45°	521.0	521.5	523.4	525.3	526.7	530.5	531.4	532.9	535.7	535.7	537.1
47.5°	466.0	467.9	467.9	470.7	473.1	472.6	475.9	476.9	476.4	478.8	479.7
50°	413.3	416.1	415.7	417.6	418.5	419.0	421.8	422.8	420.9	423.3	423.7
52.5°	363.0	364.4	366.3	366.8	365.8	368.2	367.3	369.2	368.7	370.6	368.7
55°	317.0	316.5	316.5	317.4	316.5	317.4	318.4	316.5	315.1	317.0	316.5
57.5°	270.9	270.9	270.0	271.4	270.0	268.6	268.1	266.7	265.2	265.2	264.8
60°	227.8	226.8	224.9	224.4	224.4	222.1	221.1	219.2	219.2	217.3	215.4
62.5°	187.4	185.1	183.6	183.6	182.7	180.3	176.0	173.2	172.2	169.4	168.9
65°	149.5	147.1	145.7	142.8	140.5	139.5	135.2	131.9	130.5	127.6	128.1
67.5°	114.8	111.0	106.8	104.9	103.4	100.1	98.7	96.3	94.9	94.9	94.9
70°	82.6	79.2	75.0	73.5	72.6	69.8	68.3	67.9	69.3	68.8	69.3
72.5°	55.5	52.2	50.3	49.3	48.4	47.0	47.9	48.4	47.5	47.9	48.4
75°	33.7	32.7	31.3	30.8	30.8	31.3	30.8	30.8	31.3	31.3	31.8
77.5°	19.5	18.5	18.5	18.0	19.0	18.5	18.5	18.5	19.0	19.0	19.0
80°	10.4	10.4	10.4	10.4	10.9	10.4	10.9	10.9	10.9	10.9	10.9
82.5°	5.2	5.2	5.2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.2
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5
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: P857596

CATALOG NUMBER: LX4C30D010 EX4C309050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1225.2	1225.2	1225.2	1224.2	1224.7	1224.7	1224.2	1224.2
5°	1211.9	1211.4	1210.5	1210.5	1209.5	1210.5	1210.0	1210.5
7.5°	1193.8	1193.8	1192.4	1192.4	1191.9	1191.5	1191.0	1191.5
10°	1172.5	1172.5	1171.5	1171.1	1171.5	1169.6	1169.6	1169.2
12.5°	1148.8	1147.8	1146.9	1147.3	1146.9	1145.4	1145.0	1145.4
15°	1121.2	1119.8	1120.3	1118.9	1118.9	1118.4	1119.3	1119.3
17.5°	1090.9	1089.9	1089.0	1089.5	1088.5	1089.0	1088.5	1088.0
20°	1057.2	1056.7	1056.7	1054.8	1055.3	1054.8	1055.3	1056.7
22.5°	1018.3	1017.8	1018.3	1016.9	1017.8	1017.8	1019.2	1019.2
25°	975.6	975.1	976.0	976.5	977.0	978.4	977.0	977.5
27.5°	928.1	929.5	931.0	931.4	933.3	931.9	931.0	932.4
30°	880.2	880.2	879.7	881.6	883.0	884.5	882.1	882.1
32.5°	825.2	827.5	827.5	828.0	829.4	829.4	829.4	831.3
35°	772.5	773.9	774.4	772.5	773.4	773.0	776.3	776.3
37.5°	713.6	713.6	714.1	717.4	717.4	716.0	717.0	717.0
40°	657.7	658.1	656.2	657.2	659.6	658.6	659.6	660.5
42.5°	596.4	599.8	597.9	598.8	598.3	598.8	599.3	599.3
45°	538.1	539.0	539.0	539.5	540.5	541.4	538.6	538.1
47.5°	481.1	481.6	483.0	480.7	483.5	480.7	483.5	480.2
50°	423.7	425.6	424.2	425.2	423.7	423.7	423.3	422.8
52.5°	369.2	368.7	368.7	368.2	368.2	369.2	368.2	369.6
55°	314.6	315.1	314.1	313.6	313.2	314.6	313.2	312.2
57.5°	262.9	263.8	261.9	262.9	259.6	261.0	261.4	261.9
60°	214.9	213.5	213.5	211.6	211.6	213.1	211.2	211.2
62.5°	166.5	167.5	166.1	168.0	168.0	169.9	168.9	169.9
65°	127.6	128.1	128.6	128.6	128.6	131.4	130.5	129.1
67.5°	96.3	96.8	97.3	96.8	98.2	97.3	97.3	97.7
70°	69.8	70.2	70.7	70.7	70.2	70.7	70.7	70.7
72.5°	48.4	48.9	48.4	48.9	49.3	48.9	48.9	49.3
75°	31.8	31.8	31.3	31.3	31.3	31.3	31.8	31.3
77.5°	18.5	19.0	18.5	19.0	19.0	19.0	19.0	19.0
80°	10.9	10.9	10.9	10.4	10.9	10.9	10.9	10.4
82.5°	5.7	5.7	5.2	5.2	5.7	5.7	5.7	5.7
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)