

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: P857829

Luminaire Tested: **LX4C35D010 EX4C359830 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857829
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: LX4C35D010 EX4C359830 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

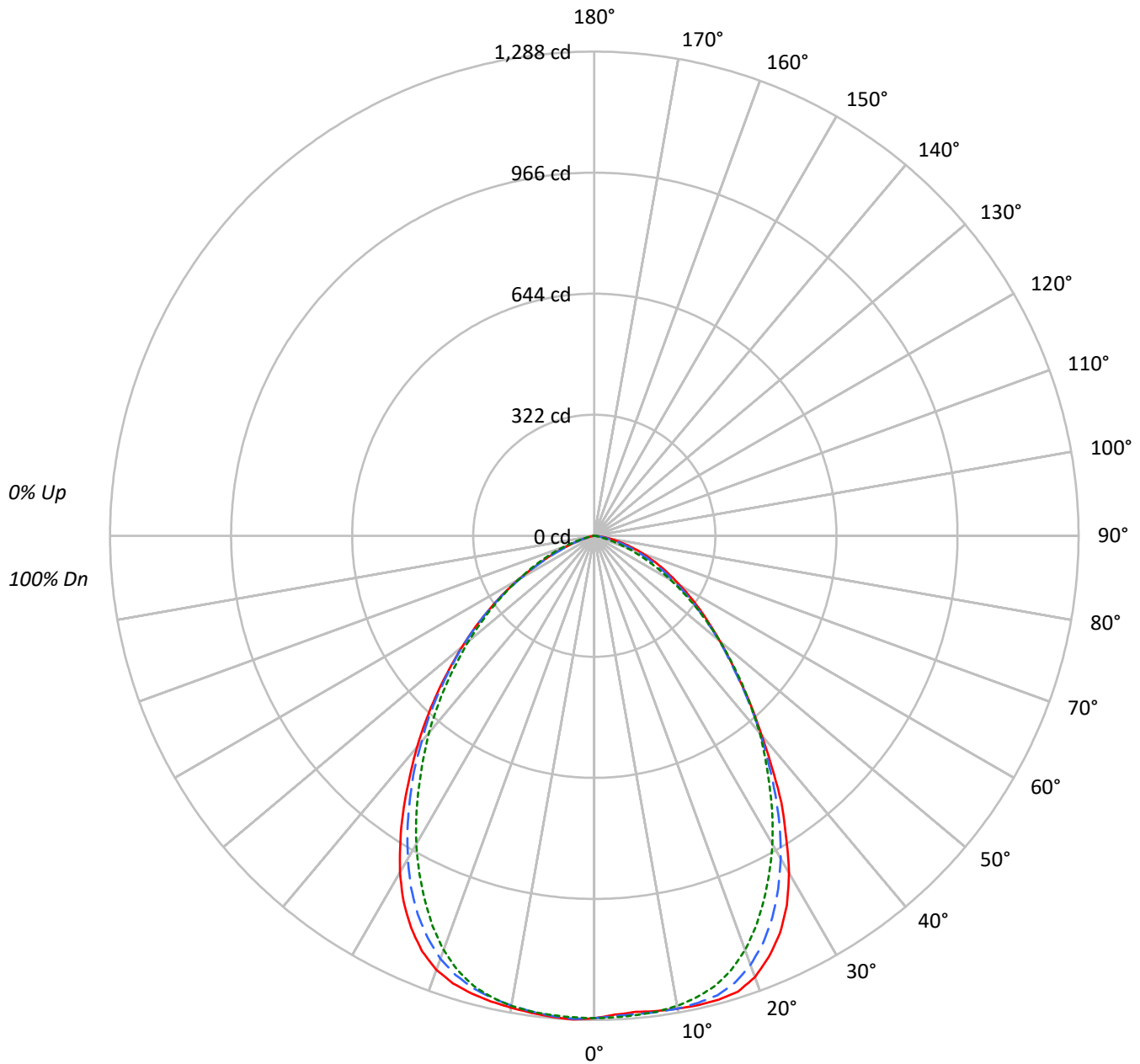
Lumens per Lamp: N/A
Luminaire Lumens: 2460.3 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77
4	88	78	71	65	86	77	70	65	75	69	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	61	57		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	51	46	70	59	51	46	57	50	46		56	50	45		54
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	157658	157658	157658
5°	156780	157841	158433
10°	159366	158406	159017
15°	162482	157712	160345
20°	163305	153290	160598
25°	158273	144758	156131
30°	146909	134326	146640
35°	130090	121856	132549
40°	110898	109744	117554
45°	95280	96374	102403
50°	83178	83369	87765
55°	73488	70404	72781
60°	64424	57422	57176
65°	57006	44535	39622
70°	48672	30640	23528
75°	39303	16471	10775
80°	26955	4103	2688
85°	8176	1410	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	5.0
10°-20°	353.1	14.4
20°-30°	510.2	20.7
30°-40°	527.4	21.4
40°-50°	435.8	17.7
50°-60°	300.7	12.2
60°-70°	157.5	6.4
70°-80°	49.6	2.0
80°-90°	4.2	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°	985.2	40.0
0°-40°	1512.6	61.5
0°-60°	2249.1	91.4
0°-90°	2460.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1283	1283	1283	1283	1283	
5°	1271	1278	1280	1282	1285	122
15°	1278	1266	1240	1246	1261	360
25°	1168	1120	1068	1111	1152	533
35°	867	838	812	855	884	538
45°	548	546	555	580	589	427
55°	343	332	329	338	340	308
65°	196	178	153	127	136	194
75°	83	65	35	24	23	89
85°	6	3	1	1	1	12
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°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1275.1	1275.5	1275.5	1276.5	1276.5	1276.5	1277.1	1277.1	1277.5	1278.0	1278.5
5°	1271.3	1271.3	1272.2	1272.7	1273.7	1274.1	1275.1	1275.5	1276.5	1277.1	1277.5
7.5°	1275.1	1275.1	1275.5	1276.1	1276.1	1276.5	1276.5	1277.1	1277.5	1278.0	1278.0
10°	1277.5	1277.5	1277.5	1277.5	1278.0	1278.0	1278.0	1277.5	1277.5	1277.5	1277.1
12.5°	1278.5	1278.5	1278.0	1277.5	1278.0	1277.5	1277.5	1276.1	1275.1	1274.1	1272.7
15°	1277.5	1277.5	1277.1	1276.5	1276.1	1275.1	1274.7	1272.2	1270.3	1267.4	1265.5
17.5°	1271.3	1270.3	1269.3	1268.3	1266.5	1265.0	1264.0	1259.7	1256.3	1251.5	1246.2
20°	1249.1	1248.1	1246.7	1244.2	1241.8	1240.0	1237.0	1230.8	1227.4	1220.2	1214.9
22.5°	1212.9	1212.0	1212.5	1208.1	1203.3	1200.4	1198.5	1193.2	1187.4	1178.3	1172.5
25°	1167.6	1164.8	1164.8	1158.0	1155.6	1153.6	1151.2	1145.0	1136.3	1128.1	1120.4
27.5°	1108.9	1105.0	1103.1	1102.1	1096.3	1092.0	1088.6	1083.8	1076.6	1069.4	1058.8
30°	1035.6	1035.1	1032.7	1028.4	1024.1	1022.1	1018.3	1010.1	1003.3	998.0	991.3
32.5°	949.3	948.9	948.9	948.9	946.0	945.5	939.7	935.3	930.1	921.9	917.5
35°	867.4	867.0	867.4	860.2	858.3	856.8	856.3	853.5	846.2	842.3	838.5
37.5°	774.9	776.4	775.4	773.4	775.8	771.5	774.9	768.6	765.7	764.8	760.5
40°	691.5	695.4	691.5	692.0	694.4	690.1	690.1	689.1	687.2	686.2	685.3
42.5°	620.2	615.4	618.2	615.8	618.2	616.8	614.4	615.8	616.4	614.4	614.0
45°	548.4	549.4	550.3	548.9	548.9	547.4	551.3	548.9	548.9	549.4	546.0
47.5°	490.1	488.7	489.6	488.7	489.1	488.1	489.1	489.6	488.7	488.7	485.7
50°	435.2	434.2	437.6	434.6	434.6	434.2	434.6	433.7	432.2	432.2	433.2
52.5°	387.5	385.5	385.1	387.5	384.1	384.1	384.5	383.6	381.7	380.7	378.3
55°	343.1	342.6	343.1	341.2	340.2	340.2	337.8	336.8	336.4	334.0	332.5
57.5°	301.7	300.2	300.7	300.2	298.3	297.8	295.9	295.9	293.9	292.0	289.6
60°	262.2	262.2	263.6	261.6	260.2	259.2	258.3	257.4	254.0	250.6	247.7
62.5°	226.9	227.5	226.9	225.5	224.5	223.6	222.7	219.7	216.9	214.9	211.5
65°	196.1	195.6	194.2	193.2	190.8	190.8	188.9	187.4	184.1	181.2	177.8
67.5°	164.3	163.4	163.4	163.4	160.5	160.0	159.0	156.1	153.2	149.4	146.5
70°	135.5	136.3	134.9	133.5	132.1	131.5	130.1	127.3	123.9	120.0	117.6
72.5°	108.0	108.9	107.5	107.0	104.1	103.1	102.6	100.2	96.4	94.0	90.2
75°	82.8	83.4	82.4	81.4	79.5	79.0	76.6	74.7	72.3	68.4	65.1
77.5°	59.7	58.8	58.8	56.9	54.9	54.9	54.5	51.5	48.2	45.3	42.4
80°	38.1	37.6	36.1	35.1	33.7	33.3	32.7	30.3	27.9	26.0	24.1
82.5°	19.3	18.8	18.3	17.8	16.9	15.9	16.4	14.4	13.5	11.6	10.1
85°	5.8	6.2	6.2	5.8	5.3	5.3	5.3	4.8	3.8	3.4	2.9
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°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1278.9	1279.5	1279.9	1280.4	1280.4	1280.9	1281.3	1281.9	1282.3	1282.3	1282.8
5°	1278.0	1278.9	1278.9	1279.5	1279.5	1279.5	1279.9	1279.9	1279.9	1279.9	1280.4
7.5°	1278.5	1278.5	1278.5	1278.0	1278.0	1277.5	1277.5	1277.5	1276.5	1276.5	1276.5
10°	1276.1	1275.5	1275.1	1274.1	1273.7	1273.1	1272.2	1271.3	1270.3	1269.8	1268.9
12.5°	1271.3	1269.3	1267.4	1265.5	1264.5	1264.0	1262.1	1260.7	1259.2	1257.7	1256.8
15°	1261.6	1258.7	1255.3	1251.5	1250.5	1249.6	1246.2	1243.3	1241.4	1240.0	1237.6
17.5°	1242.4	1236.6	1232.7	1226.9	1224.5	1223.6	1218.2	1215.4	1212.0	1211.0	1209.1
20°	1208.1	1202.8	1195.6	1190.3	1187.4	1184.5	1180.1	1176.3	1172.5	1172.5	1170.1
22.5°	1165.2	1158.5	1149.4	1142.6	1142.1	1136.3	1132.4	1128.1	1126.7	1123.8	1123.8
25°	1111.3	1105.5	1095.3	1089.5	1086.7	1085.2	1079.0	1073.2	1070.3	1067.9	1069.8
27.5°	1051.5	1042.8	1035.1	1027.9	1025.5	1022.6	1016.8	1014.4	1009.1	1008.6	1008.1
30°	983.1	974.4	966.6	963.3	958.5	956.1	951.8	948.9	946.9	946.9	946.0
32.5°	911.3	903.6	899.7	892.5	890.0	886.7	883.8	881.0	881.8	881.0	881.4
35°	833.7	831.7	824.5	820.2	820.2	819.7	814.9	813.0	812.0	812.5	814.9
37.5°	759.9	754.1	749.3	746.5	748.9	745.9	745.5	745.5	748.3	746.5	750.3
40°	681.4	680.9	679.0	680.0	680.4	677.1	678.0	678.5	680.4	684.3	684.8
42.5°	613.0	612.5	612.5	612.5	611.6	609.6	611.6	614.9	614.4	617.4	619.8
45°	547.0	546.0	547.9	546.5	549.4	550.3	548.9	549.8	552.7	554.7	558.5
47.5°	486.7	486.7	487.2	488.1	485.3	487.7	488.7	490.5	492.1	493.0	494.9
50°	430.8	430.8	429.8	429.8	429.8	431.3	429.4	431.8	432.2	436.2	438.6
52.5°	379.3	376.9	378.3	377.3	375.4	374.4	375.4	375.9	378.8	379.7	382.6
55°	330.1	330.1	326.3	325.3	326.7	326.3	325.8	325.8	327.2	328.7	331.1
57.5°	286.7	283.8	281.0	280.5	279.0	279.5	279.5	279.0	278.0	278.6	279.0
60°	245.8	243.8	239.5	239.5	239.0	238.5	236.1	235.7	233.3	233.7	231.8
62.5°	208.2	207.2	201.4	199.5	199.5	198.1	195.6	195.2	191.8	191.8	189.9
65°	174.4	171.6	168.2	164.8	164.8	162.9	161.4	157.1	154.7	153.2	150.3
67.5°	143.6	139.3	135.9	133.0	131.1	130.6	127.3	124.3	120.5	118.1	113.7
70°	113.7	110.4	107.0	104.1	102.2	100.2	96.8	92.6	89.6	85.3	82.4
72.5°	85.8	82.8	80.0	76.2	73.7	72.3	68.9	65.1	60.3	57.3	53.5
75°	61.7	58.3	54.5	51.1	49.7	48.2	44.3	41.5	38.1	34.7	30.9
77.5°	40.0	36.1	33.3	29.4	28.9	27.9	24.1	21.2	18.8	16.9	14.4
80°	21.2	19.3	16.9	14.4	13.5	12.0	10.1	8.6	7.2	5.8	4.8
82.5°	9.2	7.7	6.2	5.3	4.8	4.4	3.4	2.9	2.4	2.4	2.0
85°	2.4	2.0	2.0	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1283.3	1283.8	1284.3	1284.3	1284.7	1285.3	1285.3	1285.7	1286.2	1286.7	1286.7
5°	1280.9	1280.9	1280.9	1281.3	1281.3	1281.3	1281.3	1282.3	1282.3	1282.8	1283.3
7.5°	1276.1	1276.1	1276.1	1276.1	1275.5	1276.1	1275.5	1275.5	1276.5	1277.1	1277.5
10°	1268.3	1267.9	1267.9	1267.4	1267.4	1267.4	1267.9	1268.3	1268.9	1269.3	1270.7
12.5°	1256.3	1255.8	1255.8	1255.3	1255.3	1255.8	1256.3	1257.3	1259.2	1260.2	1262.1
15°	1237.0	1236.6	1237.0	1237.6	1238.5	1240.0	1241.4	1242.8	1245.7	1248.1	1250.5
17.5°	1209.1	1209.6	1210.0	1211.0	1212.5	1214.4	1218.2	1222.1	1225.4	1229.4	1233.2
20°	1170.5	1172.5	1172.9	1176.3	1177.3	1181.6	1185.9	1191.7	1197.1	1201.9	1207.2
22.5°	1124.3	1125.7	1127.6	1131.5	1133.9	1139.7	1145.0	1151.8	1157.5	1163.8	1171.5
25°	1071.8	1072.2	1078.0	1078.0	1083.8	1088.6	1094.9	1102.1	1110.8	1119.0	1124.3
27.5°	1011.9	1014.4	1018.7	1020.7	1025.0	1032.7	1038.0	1046.7	1055.4	1062.6	1068.4
30°	949.3	951.3	958.5	959.4	962.8	969.6	976.8	985.0	991.7	999.9	1005.3
32.5°	883.4	888.6	893.0	896.3	897.3	907.4	911.3	917.1	924.7	932.9	938.3
35°	819.2	821.7	827.9	829.9	832.7	838.5	846.2	851.0	854.9	860.2	866.4
37.5°	751.3	758.5	759.9	765.7	766.7	772.0	775.8	781.6	786.4	791.2	792.2
40°	688.2	690.6	695.8	697.3	698.2	705.5	710.4	711.8	714.2	718.5	724.3
42.5°	624.0	626.4	632.2	630.8	635.1	638.5	640.9	646.7	649.1	650.5	650.5
45°	560.9	561.9	565.7	567.7	570.1	572.1	576.3	579.3	580.2	584.5	586.0
47.5°	500.7	501.7	504.5	507.9	507.0	509.4	514.2	515.6	516.1	519.0	520.4
50°	441.4	443.8	447.7	446.8	449.6	451.0	455.4	456.4	456.4	456.8	457.3
52.5°	386.0	387.9	388.9	389.9	391.3	393.7	395.7	394.7	396.6	398.5	397.1
55°	331.1	332.5	334.9	335.9	335.9	336.4	335.4	339.8	337.8	337.3	337.8
57.5°	281.0	279.0	278.6	281.0	281.9	281.4	280.0	281.9	281.9	281.0	279.5
60°	232.3	230.9	230.3	230.9	228.9	227.5	228.5	227.5	225.1	224.1	224.5
62.5°	188.0	186.5	182.6	182.6	181.6	181.2	177.4	177.8	175.9	173.0	174.0
65°	147.0	143.1	141.2	140.7	137.3	134.5	133.5	130.1	127.3	126.7	127.3
67.5°	110.4	106.0	102.6	101.2	99.3	96.8	93.5	90.6	91.6	91.0	93.0
70°	76.6	73.7	70.4	68.0	68.9	66.0	64.1	64.1	64.6	65.1	66.0
72.5°	51.1	47.3	45.7	44.3	43.3	41.5	42.4	42.4	41.9	42.4	41.5
75°	28.9	27.0	25.5	25.1	24.1	24.1	24.1	24.1	23.6	23.1	23.1
77.5°	13.0	12.0	11.6	11.1	11.1	11.1	10.6	10.1	10.1	10.1	9.6
80°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
82.5°	2.0	2.0	2.4	2.4	2.4	2.0	2.4	2.4	2.0	2.0	2.4
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P857829

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1287.1	1287.7	1287.7	1287.7	1288.1	1288.1	1288.1	1288.1
5°	1283.8	1284.3	1284.3	1284.3	1284.7	1284.7	1284.7	1284.7
7.5°	1278.0	1278.5	1278.5	1278.9	1278.9	1279.5	1279.5	1279.9
10°	1271.3	1272.2	1272.7	1273.1	1273.7	1274.1	1274.1	1274.7
12.5°	1264.0	1265.0	1265.5	1266.5	1267.4	1267.9	1268.3	1268.9
15°	1253.4	1255.3	1256.3	1256.8	1258.7	1259.7	1260.2	1260.7
17.5°	1236.6	1240.4	1241.8	1242.8	1244.8	1246.7	1248.1	1248.6
20°	1212.5	1216.8	1218.7	1221.2	1224.0	1226.4	1227.4	1228.4
22.5°	1178.7	1183.5	1186.5	1189.3	1191.7	1194.1	1198.0	1196.5
25°	1130.6	1138.8	1142.1	1143.6	1148.8	1151.8	1153.6	1151.8
27.5°	1076.6	1081.4	1084.3	1087.7	1091.5	1094.4	1095.3	1098.3
30°	1011.5	1019.7	1019.2	1022.6	1027.4	1030.3	1031.3	1033.7
32.5°	944.0	947.9	950.8	950.3	952.2	957.6	955.6	960.0
35°	872.2	872.7	877.6	877.0	881.0	881.0	881.0	883.8
37.5°	795.6	801.4	799.0	804.8	802.8	804.3	804.3	805.2
40°	725.7	727.7	727.7	729.6	731.0	729.6	730.5	733.0
42.5°	653.5	655.3	655.9	654.9	656.3	660.7	657.3	660.2
45°	586.0	587.4	589.4	587.9	590.3	588.9	590.3	589.4
47.5°	522.4	521.9	521.4	525.2	521.9	522.4	524.3	521.0
50°	457.3	460.2	458.3	459.7	460.7	460.7	459.2	459.2
52.5°	399.5	399.1	397.5	399.1	398.1	398.5	399.5	398.5
55°	339.8	341.6	340.7	340.2	340.7	340.7	343.6	339.8
57.5°	281.0	280.0	281.4	284.8	281.4	283.8	285.3	285.8
60°	225.1	225.1	227.9	226.5	229.4	231.8	233.7	232.7
62.5°	171.6	174.0	175.0	175.4	178.3	180.2	180.2	179.8
65°	127.3	130.6	130.6	132.5	133.5	133.5	134.5	136.3
67.5°	94.0	94.0	94.4	95.4	95.0	95.0	95.9	96.4
70°	65.5	64.6	66.0	65.5	65.5	65.1	65.5	65.5
72.5°	41.5	41.5	41.9	41.5	40.5	40.9	40.9	41.9
75°	22.2	23.1	22.2	22.2	22.7	21.7	22.2	22.7
77.5°	9.2	9.2	9.2	9.2	9.2	8.6	8.6	8.6
80°	4.4	4.4	4.4	4.4	4.4	4.4	3.8	3.8
82.5°	2.0	2.4	2.0	2.4	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)