

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: P857856

Luminaire Tested: **LX4C35D010 EX4C359840 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857856
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: LX4C35D010 EX4C359840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

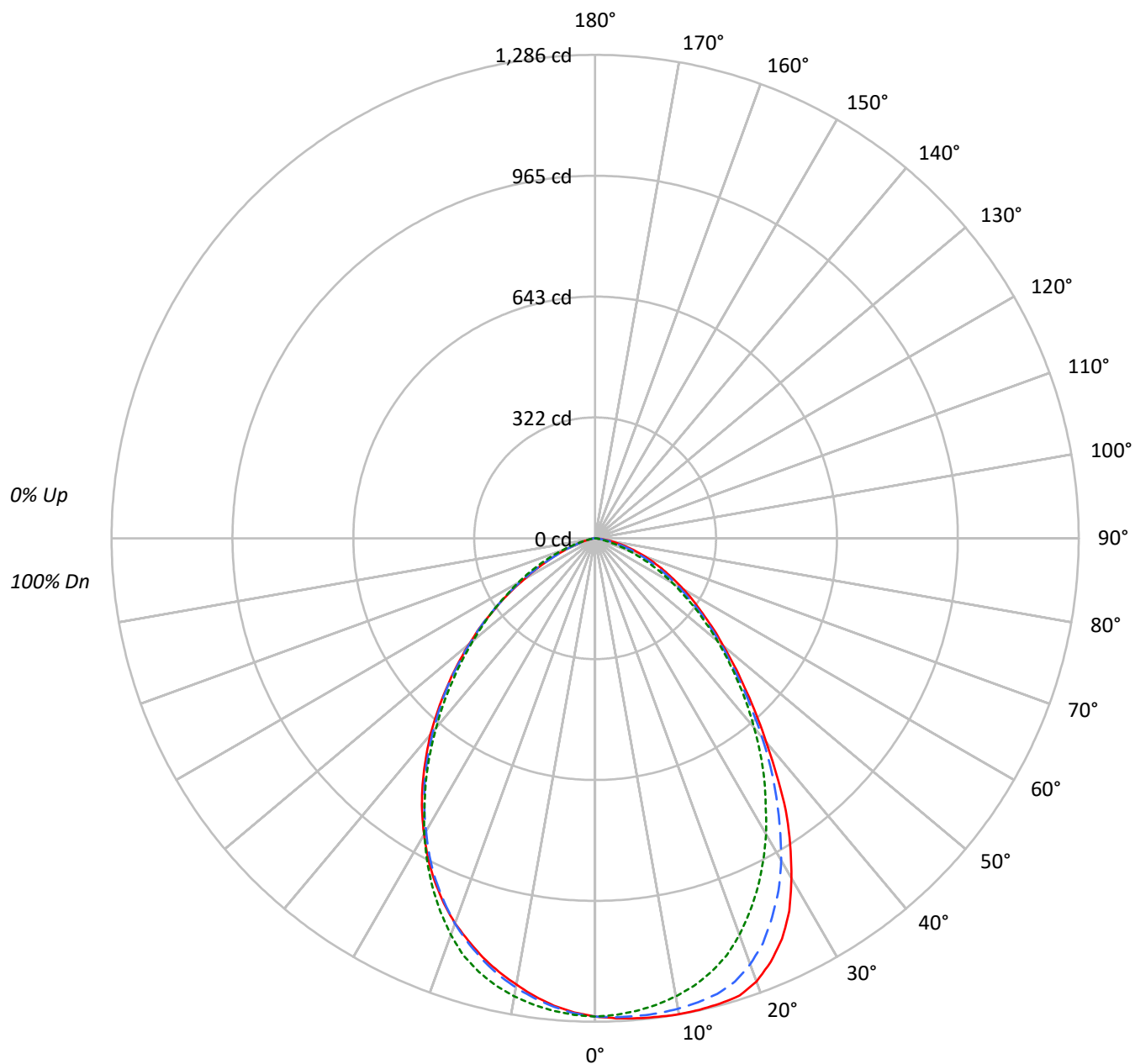
Lumens per Lamp: N/A
Luminaire Lumens: 2397.9 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	156306	156306	156306
5°	158063	155646	153956
10°	160377	154327	150422
15°	163016	151862	146825
20°	164050	146714	142491
25°	159344	138780	136652
30°	148087	128978	129063
35°	132549	117581	120071
40°	113481	105398	109247
45°	97695	92934	96409
50°	84936	80904	83350
55°	74730	69611	68969
60°	66488	58085	53515
65°	58314	46540	38692
70°	50108	32867	26186
75°	40632	19034	15332
80°	29078	8348	7641
85°	10995	3383	3383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	5.0
10°-20°	339.4	14.2
20°-30°	484.7	20.2
30°-40°	507.1	21.1
40°-50°	424.9	17.7
50°-60°	297.3	12.4
60°-70°	161.9	6.8
70°-80°	56.2	2.3
80°-90°	6.4	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°	944.1	39.4
0°-40°	1451.1	60.5
0°-60°	2173.3	90.6
0°-90°	2397.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1272	1272	1272	1272	1272	
5°	1282	1276	1262	1251	1248	122
15°	1282	1255	1194	1160	1154	362
25°	1176	1113	1024	1004	1008	537
35°	884	840	784	790	801	548
45°	562	550	535	552	555	437
55°	349	337	325	325	322	315
65°	201	183	160	135	133	200
75°	86	70	40	32	32	92
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°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1278.2	1276.8	1277.2	1277.2	1277.2	1276.8	1277.2	1276.8	1276.8	1276.3	1275.3
5°	1281.7	1280.7	1280.7	1280.7	1280.2	1279.7	1279.7	1279.2	1278.2	1277.8	1275.8
7.5°	1284.1	1283.1	1283.1	1282.7	1282.1	1281.7	1281.2	1279.7	1278.2	1277.2	1274.8
10°	1285.6	1284.1	1284.1	1283.1	1282.1	1281.7	1280.7	1278.8	1276.8	1274.3	1270.9
12.5°	1284.6	1283.1	1282.7	1281.7	1279.7	1278.8	1277.8	1275.3	1271.9	1268.5	1264.0
15°	1281.7	1280.7	1279.7	1278.2	1275.8	1274.3	1273.3	1269.5	1265.0	1260.1	1254.8
17.5°	1275.8	1274.3	1272.3	1270.5	1267.0	1265.6	1263.1	1258.2	1251.8	1245.0	1236.7
20°	1254.8	1253.8	1251.8	1248.4	1243.0	1241.0	1237.6	1231.3	1222.9	1214.6	1205.8
22.5°	1220.0	1218.6	1215.6	1212.7	1207.8	1204.4	1201.4	1192.6	1183.3	1174.5	1166.2
25°	1175.5	1174.0	1170.1	1166.2	1161.3	1155.4	1152.5	1145.6	1136.3	1125.1	1112.8
27.5°	1118.2	1113.3	1111.8	1107.5	1100.1	1098.2	1093.7	1085.0	1076.2	1066.3	1056.1
30°	1043.9	1043.9	1040.9	1039.0	1032.1	1030.1	1025.2	1016.0	1011.1	997.3	989.5
32.5°	965.0	964.1	961.7	960.1	956.2	952.8	947.9	943.0	932.2	925.4	914.7
35°	883.8	877.9	878.9	876.0	873.6	869.6	869.1	863.7	853.9	850.0	840.3
37.5°	791.3	788.8	792.3	787.9	785.4	786.0	782.1	778.6	774.7	767.8	765.9
40°	707.6	709.6	709.1	705.2	707.2	704.7	700.8	697.3	695.4	691.0	689.5
42.5°	632.8	629.8	628.9	628.9	629.3	629.3	627.3	624.9	624.9	620.6	616.1
45°	562.3	562.3	561.4	564.3	559.8	559.8	558.4	557.9	555.9	554.9	549.6
47.5°	501.6	501.2	500.6	500.2	499.6	499.6	496.7	494.3	493.8	490.8	487.9
50°	444.4	447.3	446.3	443.9	442.9	443.4	441.4	440.0	439.5	434.5	435.1
52.5°	396.4	395.9	396.9	395.4	393.0	393.4	391.5	389.5	387.6	385.1	383.2
55°	348.9	351.3	350.4	348.9	348.4	347.4	346.0	343.5	343.1	337.7	337.2
57.5°	309.3	308.8	307.8	305.3	304.9	303.4	303.4	301.5	298.6	295.6	293.1
60°	270.6	270.6	269.1	268.7	266.7	266.2	265.7	263.8	260.4	257.9	254.0
62.5°	233.5	234.4	233.5	231.9	230.5	228.6	227.6	226.1	223.1	220.7	217.3
65°	200.6	200.2	199.7	197.7	197.3	195.3	194.8	191.8	188.9	186.9	183.0
67.5°	169.3	167.8	167.8	166.8	165.9	164.4	163.5	160.5	157.1	155.2	151.2
70°	139.5	138.5	138.5	138.5	136.1	134.6	134.1	132.6	127.7	125.7	121.8
72.5°	112.1	111.6	111.1	109.6	108.2	108.2	106.2	103.3	100.9	98.4	95.4
75°	85.6	86.6	85.6	83.6	83.2	82.2	80.8	78.3	75.9	72.9	69.5
77.5°	62.6	61.6	60.6	60.6	59.7	57.8	57.2	55.3	52.3	50.4	47.0
80°	41.1	40.6	39.7	38.7	38.2	37.7	37.2	35.2	32.3	30.9	27.9
82.5°	22.5	22.0	22.0	21.5	20.1	20.1	19.6	17.7	16.1	15.2	13.7
85°	7.8	7.8	7.8	7.3	7.3	7.3	6.9	6.3	5.9	5.4	4.4
87.5°	1.0	0.4	1.0	0.4	1.0	0.4	0.4	0.4	0.4	0.4	0.4
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°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1274.3	1273.3	1272.9	1272.3	1271.9	1271.4	1270.9	1269.9	1269.5	1268.9	1268.0
5°	1274.3	1272.3	1271.4	1269.9	1268.9	1268.0	1266.5	1265.0	1263.6	1262.1	1260.7
7.5°	1272.3	1269.5	1267.5	1264.6	1263.6	1262.1	1259.1	1257.2	1254.8	1251.8	1248.4
10°	1267.5	1264.0	1260.1	1256.2	1254.8	1252.3	1248.4	1245.0	1241.0	1237.1	1233.7
12.5°	1259.7	1254.2	1249.4	1244.0	1241.0	1238.6	1233.2	1228.4	1223.5	1219.0	1213.1
15°	1247.9	1241.6	1235.2	1227.8	1224.5	1221.5	1213.7	1207.8	1199.9	1194.0	1188.2
17.5°	1228.8	1219.0	1211.3	1201.9	1197.0	1193.6	1186.7	1177.5	1170.1	1163.7	1156.9
20°	1196.0	1186.7	1175.9	1165.7	1160.3	1155.9	1146.2	1136.3	1129.0	1122.2	1114.8
22.5°	1152.9	1141.3	1133.4	1120.7	1116.3	1110.8	1099.2	1090.3	1082.0	1075.2	1068.3
25°	1100.6	1090.3	1079.5	1067.9	1062.4	1056.1	1046.3	1037.0	1031.6	1023.8	1015.4
27.5°	1040.4	1032.1	1018.9	1008.6	1003.2	998.3	989.0	980.7	972.9	967.5	959.7
30°	976.8	967.0	955.2	944.5	941.6	935.7	927.4	921.0	912.7	909.2	905.8
32.5°	906.8	895.6	886.7	879.9	874.0	869.1	864.7	854.5	853.0	844.2	843.2
35°	830.5	825.6	817.3	811.4	806.5	803.1	795.7	790.8	785.4	784.0	780.5
37.5°	758.5	752.6	744.9	739.4	736.0	735.5	730.2	727.2	723.3	721.3	717.4
40°	683.2	680.8	673.9	672.9	667.5	667.0	664.1	660.7	657.2	657.2	657.7
42.5°	613.7	610.8	607.8	604.4	601.5	601.5	600.0	599.0	598.0	596.6	599.0
45°	548.6	544.7	542.7	539.3	540.8	537.8	536.8	536.8	535.4	534.9	538.3
47.5°	487.9	483.5	481.5	480.6	480.6	481.1	476.6	478.2	477.6	478.6	480.1
50°	432.6	428.7	425.7	425.7	426.3	424.3	422.3	423.8	422.3	423.3	426.7
52.5°	381.2	377.3	375.9	375.9	372.9	372.4	373.4	371.4	371.9	372.4	374.4
55°	333.8	331.3	328.9	326.4	326.9	325.9	324.0	323.4	324.4	325.0	327.4
57.5°	291.2	287.8	284.3	283.3	282.4	282.4	279.9	279.5	280.5	278.0	278.0
60°	250.6	248.6	244.2	242.7	242.7	240.3	238.4	239.3	236.8	236.4	236.8
62.5°	212.9	211.4	208.5	205.5	204.6	203.6	201.2	200.2	199.2	197.3	194.3
65°	180.1	176.7	173.3	171.3	169.8	167.4	165.9	163.9	161.0	160.1	157.1
67.5°	147.3	143.8	140.4	139.0	137.5	136.1	133.6	131.2	127.7	123.8	120.4
70°	118.4	114.1	112.1	108.2	107.2	105.2	101.7	99.3	96.0	91.5	88.1
72.5°	90.5	87.6	84.6	81.2	78.8	77.3	74.4	70.4	66.5	64.1	60.6
75°	65.1	63.6	59.7	55.8	54.8	52.9	49.4	47.0	44.1	40.1	37.2
77.5°	44.1	41.1	38.7	35.2	34.2	32.3	30.3	27.9	25.9	23.5	21.5
80°	25.9	23.5	22.0	19.6	18.6	17.7	16.1	14.2	12.8	11.8	11.2
82.5°	12.8	10.8	10.3	8.8	8.3	7.8	6.9	6.3	5.4	5.4	5.4
85°	4.4	3.4	3.4	2.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.0	0.4
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: P857856

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1267.5	1267.0	1266.5	1266.0	1266.0	1265.6	1265.6	1265.0	1265.0	1264.6	1264.6
5°	1258.7	1257.2	1256.2	1255.2	1255.2	1253.8	1252.8	1251.8	1251.4	1251.4	1250.4
7.5°	1246.5	1244.5	1242.6	1241.0	1240.6	1238.1	1236.1	1236.1	1234.2	1233.2	1232.2
10°	1230.3	1226.9	1223.9	1222.5	1220.5	1219.0	1216.6	1215.1	1213.7	1211.3	1210.7
12.5°	1208.3	1205.8	1201.4	1199.5	1198.5	1195.6	1191.6	1189.7	1189.2	1187.3	1185.7
15°	1183.3	1177.9	1174.0	1171.6	1171.6	1166.7	1164.7	1161.8	1159.8	1158.4	1157.8
17.5°	1151.0	1145.6	1141.7	1138.3	1137.3	1133.4	1130.5	1129.5	1127.1	1128.1	1125.6
20°	1109.4	1105.0	1102.1	1097.6	1097.6	1095.2	1094.3	1091.8	1090.8	1089.9	1090.8
22.5°	1064.9	1059.5	1054.6	1054.1	1054.1	1050.7	1050.2	1049.8	1047.8	1049.2	1048.8
25°	1012.5	1008.6	1005.7	1005.2	1005.2	1003.2	1001.2	1002.2	1003.7	1003.2	1004.7
27.5°	958.2	954.3	953.3	952.8	951.8	951.3	952.3	952.3	953.8	955.8	957.7
30°	899.5	898.5	897.0	896.6	895.6	898.0	899.0	900.5	899.9	902.9	904.9
32.5°	840.7	838.8	838.3	839.3	840.7	840.3	843.2	844.2	845.2	848.6	850.0
35°	781.5	781.1	780.1	780.1	780.5	784.5	784.5	787.9	789.8	790.8	794.7
37.5°	717.9	719.9	720.9	722.3	722.8	724.3	725.3	728.6	730.6	732.6	734.5
40°	659.7	658.7	663.1	660.2	661.1	665.6	667.5	667.0	670.0	672.9	674.9
42.5°	597.6	599.0	600.0	600.9	603.4	603.9	606.3	609.8	610.8	614.1	615.1
45°	537.4	537.8	539.8	541.7	543.2	547.1	548.1	549.6	552.5	552.5	554.0
47.5°	480.6	482.5	482.5	485.5	487.9	487.4	490.8	491.8	491.3	493.8	494.7
50°	426.3	429.2	428.7	430.6	431.6	432.1	435.1	436.1	434.1	436.5	437.0
52.5°	374.4	375.9	377.8	378.3	377.3	379.8	378.8	380.8	380.2	382.2	380.2
55°	326.9	326.4	326.4	327.4	326.4	327.4	328.3	326.4	325.0	326.9	326.4
57.5°	279.5	279.5	278.5	279.9	278.5	277.0	276.5	275.0	273.6	273.6	273.1
60°	234.9	233.9	231.9	231.5	231.5	229.0	228.0	226.1	226.1	224.1	222.1
62.5°	193.3	190.8	189.4	189.4	188.4	185.9	181.6	178.6	177.6	174.7	174.2
65°	154.2	151.7	150.3	147.3	144.8	143.8	139.5	136.1	134.6	131.6	132.2
67.5°	118.4	114.5	110.1	108.2	106.7	103.3	101.7	99.3	97.9	97.9	97.9
70°	85.2	81.7	77.3	75.9	74.9	72.0	70.4	70.0	71.4	71.0	71.4
72.5°	57.2	53.9	51.9	50.9	49.9	48.4	49.4	49.9	49.0	49.4	49.9
75°	34.8	33.8	32.3	31.8	31.8	32.3	31.8	31.8	32.3	32.3	32.8
77.5°	20.1	19.1	19.1	18.6	19.6	19.1	19.1	19.1	19.6	19.6	19.6
80°	10.8	10.8	10.8	10.8	11.2	10.8	11.2	11.2	11.2	11.2	11.2
82.5°	5.4	5.4	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.4
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°	0.4	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4
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: P857856

CATALOG NUMBER: LX4C35D010 EX4C359840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1263.6	1263.6	1263.6	1262.6	1263.1	1263.1	1262.6	1262.6
5°	1249.9	1249.4	1248.4	1248.4	1247.5	1248.4	1247.9	1248.4
7.5°	1231.3	1231.3	1229.8	1229.8	1229.4	1228.8	1228.4	1228.8
10°	1209.3	1209.3	1208.3	1207.8	1208.3	1206.3	1206.3	1205.8
12.5°	1184.8	1183.8	1182.8	1183.3	1182.8	1181.4	1180.8	1181.4
15°	1156.4	1154.9	1155.4	1153.9	1153.9	1153.5	1154.4	1154.4
17.5°	1125.1	1124.1	1123.1	1123.6	1122.6	1123.1	1122.6	1122.2
20°	1090.3	1089.9	1089.9	1087.9	1088.4	1087.9	1088.4	1089.9
22.5°	1050.2	1049.8	1050.2	1048.8	1049.8	1049.8	1051.2	1051.2
25°	1006.2	1005.7	1006.7	1007.1	1007.7	1009.1	1007.7	1008.1
27.5°	957.2	958.7	960.1	960.7	962.6	961.1	960.1	961.7
30°	907.8	907.8	907.3	909.2	910.7	912.2	909.8	909.8
32.5°	851.0	853.5	853.5	853.9	855.4	855.4	855.4	857.4
35°	796.7	798.2	798.6	796.7	797.7	797.2	800.6	800.6
37.5°	736.0	736.0	736.5	740.0	740.0	738.5	739.4	739.4
40°	678.3	678.8	676.8	677.8	680.2	679.2	680.2	681.2
42.5°	615.1	618.6	616.6	617.6	617.1	617.6	618.1	618.1
45°	554.9	555.9	555.9	556.4	557.4	558.4	555.5	554.9
47.5°	496.3	496.7	498.2	495.7	498.7	495.7	498.7	495.3
50°	437.0	439.0	437.5	438.5	437.0	437.0	436.5	436.1
52.5°	380.8	380.2	380.2	379.8	379.8	380.8	379.8	381.2
55°	324.4	325.0	324.0	323.4	323.0	324.4	323.0	322.0
57.5°	271.1	272.1	270.1	271.1	267.7	269.1	269.7	270.1
60°	221.7	220.3	220.3	218.3	218.3	219.7	217.8	217.8
62.5°	171.7	172.7	171.3	173.3	173.3	175.2	174.2	175.2
65°	131.6	132.2	132.6	132.6	132.6	135.5	134.6	133.1
67.5°	99.3	99.9	100.3	99.9	101.3	100.3	100.3	100.9
70°	72.0	72.4	72.9	72.9	72.4	72.9	72.9	72.9
72.5°	49.9	50.4	49.9	50.4	50.9	50.4	50.4	50.9
75°	32.8	32.8	32.3	32.3	32.3	32.3	32.8	32.3
77.5°	19.1	19.6	19.1	19.6	19.6	19.6	19.6	19.6
80°	11.2	11.2	11.2	10.8	11.2	11.2	11.2	10.8
82.5°	5.9	5.9	5.4	5.4	5.9	5.9	5.9	5.9
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)