

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: P857595

Luminaire Tested: **LX4C30D010 EX4C309050 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857595
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: LX4C30D010 EX4C309050 4LBLWW*
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

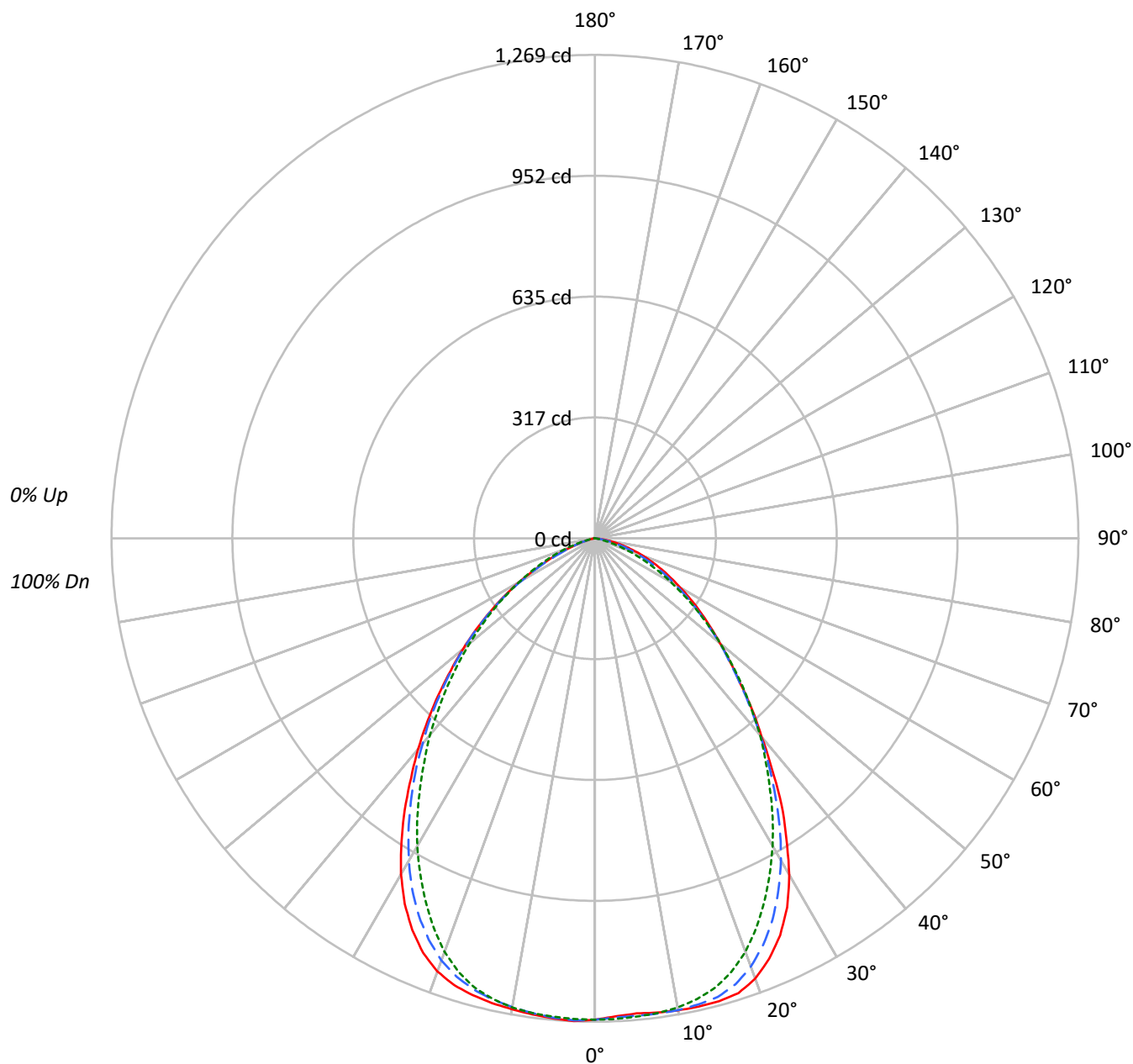
Lumens per Lamp: N/A
Luminaire Lumens: 2423.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155262	155262	155262
5°	154400	155448	156040
10°	156946	155998	156597
15°	160014	155308	157903
20°	160821	150963	158154
25°	155873	142562	153759
30°	144682	132298	144412
35°	128125	120011	130539
40°	109215	108076	115774
45°	93838	94915	100839
50°	81917	82089	86446
55°	72374	69333	71667
60°	63442	56562	56316
65°	56162	43866	39040
70°	47917	30173	23168
75°	38733	16234	10585
80°	26531	4033	2688
85°	8035	1269	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	5.0
10°-20°	347.7	14.4
20°-30°	502.4	20.7
30°-40°	519.4	21.4
40°-50°	429.2	17.7
50°-60°	296.2	12.2
60°-70°	155.1	6.4
70°-80°	48.8	2.0
80°-90°	4.1	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°	970.2	40.0
0°-40°	1489.6	61.5
0°-60°	2215.0	91.4
0°-90°	2423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2423.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1264	1264	1264	1264	1264	
5°	1252	1258	1260	1263	1265	120
15°	1258	1246	1221	1227	1242	355
25°	1150	1103	1052	1094	1134	525
35°	854	826	800	842	870	530
45°	540	538	546	571	580	421
55°	338	328	324	333	335	304
65°	193	175	151	125	134	191
75°	82	64	34	23	22	87
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°	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8
2.5°	1255.8	1256.2	1256.2	1257.2	1257.2	1257.2	1257.7	1257.7	1258.1	1258.6	1259.1
5°	1252.0	1252.0	1252.9	1253.4	1254.3	1254.8	1255.8	1256.2	1257.2	1257.7	1258.1
7.5°	1255.8	1255.8	1256.2	1256.7	1256.7	1257.2	1257.2	1257.7	1258.1	1258.6	1258.6
10°	1258.1	1258.1	1258.1	1258.1	1258.6	1258.6	1258.6	1258.1	1258.1	1258.1	1257.7
12.5°	1259.1	1259.1	1258.6	1258.1	1258.6	1258.1	1258.1	1256.7	1255.8	1254.8	1253.4
15°	1258.1	1258.1	1257.7	1257.2	1256.7	1255.8	1255.3	1252.9	1251.0	1248.2	1246.3
17.5°	1252.0	1251.0	1250.1	1249.1	1247.2	1245.8	1244.8	1240.6	1237.3	1232.5	1227.3
20°	1230.1	1229.2	1227.8	1225.4	1223.0	1221.1	1218.3	1212.1	1208.8	1201.7	1196.4
22.5°	1194.5	1193.6	1194.1	1189.8	1185.1	1182.2	1180.3	1175.1	1169.4	1160.4	1154.7
25°	1149.9	1147.1	1147.1	1140.4	1138.1	1136.2	1133.8	1127.6	1119.1	1111.0	1103.4
27.5°	1092.0	1088.2	1086.3	1085.4	1079.7	1075.4	1072.1	1067.4	1060.2	1053.1	1042.7
30°	1019.9	1019.4	1017.0	1012.8	1008.5	1006.6	1002.8	994.7	988.1	982.9	976.2
32.5°	934.9	934.5	934.5	934.5	931.6	931.1	925.5	921.2	916.0	907.9	903.6
35°	854.3	853.8	854.3	847.1	845.2	843.8	843.3	840.5	833.4	829.6	825.8
37.5°	763.1	764.6	763.6	761.7	764.1	759.8	763.1	757.0	754.1	753.2	748.9
40°	681.0	684.8	681.0	681.5	683.9	679.6	679.6	678.7	676.8	675.8	674.9
42.5°	610.8	606.1	608.9	606.5	608.9	607.5	605.1	606.5	607.0	605.1	604.6
45°	540.1	541.0	542.0	540.6	540.6	539.1	542.9	540.6	540.6	541.0	537.7
47.5°	482.7	481.2	482.2	481.2	481.7	480.8	481.7	482.2	481.2	481.2	478.4
50°	428.6	427.6	430.9	428.1	428.1	427.6	428.1	427.1	425.7	425.7	426.7
52.5°	381.6	379.7	379.2	381.6	378.2	378.2	378.7	377.8	375.9	374.9	372.6
55°	337.9	337.4	337.9	336.0	335.1	335.1	332.7	331.7	331.3	328.9	327.5
57.5°	297.1	295.7	296.1	295.7	293.8	293.3	291.4	291.4	289.5	287.6	285.2
60°	258.2	258.2	259.6	257.7	256.3	255.3	254.4	253.4	250.1	246.8	243.9
62.5°	223.5	224.0	223.5	222.1	221.2	220.2	219.3	216.4	213.6	211.7	208.3
65°	193.2	192.7	191.3	190.3	187.9	187.9	186.0	184.6	181.3	178.4	175.1
67.5°	161.8	160.9	160.9	160.9	158.0	157.6	156.6	153.8	150.9	147.1	144.3
70°	133.4	134.3	132.9	131.5	130.0	129.6	128.1	125.3	122.0	118.2	115.8
72.5°	106.3	107.3	105.8	105.4	102.5	101.6	101.1	98.7	94.9	92.5	88.7
75°	81.6	82.1	81.2	80.2	78.3	77.8	75.5	73.6	71.2	67.4	64.1
77.5°	58.8	57.9	57.9	56.0	54.1	54.1	53.6	50.8	47.5	44.6	41.8
80°	37.5	37.0	35.6	34.6	33.2	32.7	32.3	29.9	27.5	25.6	23.7
82.5°	19.0	18.5	18.0	17.6	16.6	15.7	16.1	14.2	13.3	11.4	10.0
85°	5.7	6.2	6.2	5.7	5.2	5.2	5.2	4.7	3.8	3.3	2.8
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°	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8
2.5°	1259.6	1260.0	1260.5	1261.0	1261.0	1261.5	1261.9	1262.4	1262.9	1262.9	1263.4
5°	1258.6	1259.6	1259.6	1260.0	1260.0	1260.0	1260.5	1260.5	1260.5	1260.5	1261.0
7.5°	1259.1	1259.1	1259.1	1258.6	1258.6	1258.1	1258.1	1258.1	1257.2	1257.2	1257.2
10°	1256.7	1256.2	1255.8	1254.8	1254.3	1253.9	1252.9	1252.0	1251.0	1250.5	1249.6
12.5°	1252.0	1250.1	1248.2	1246.3	1245.3	1244.8	1243.0	1241.5	1240.1	1238.7	1237.7
15°	1242.5	1239.6	1236.3	1232.5	1231.6	1230.6	1227.3	1224.4	1222.5	1221.1	1218.7
17.5°	1223.5	1217.8	1214.0	1208.3	1205.9	1205.0	1199.8	1196.9	1193.6	1192.6	1190.7
20°	1189.8	1184.6	1177.5	1172.2	1169.4	1166.5	1162.3	1158.5	1154.7	1154.7	1152.3
22.5°	1147.6	1140.9	1131.9	1125.3	1124.8	1119.1	1115.3	1111.0	1109.6	1106.7	1106.7
25°	1094.4	1088.7	1078.7	1073.0	1070.2	1068.8	1062.6	1056.9	1054.1	1051.7	1053.6
27.5°	1035.6	1027.0	1019.4	1012.3	1009.9	1007.1	1001.4	999.0	993.8	993.3	992.8
30°	968.2	959.6	952.0	948.7	944.0	941.6	937.3	934.5	932.6	932.6	931.6
32.5°	897.4	889.9	886.1	878.9	876.6	873.2	870.4	867.6	868.5	867.6	868.0
35°	821.0	819.1	812.0	807.8	807.8	807.3	802.5	800.6	799.7	800.2	802.5
37.5°	748.4	742.7	738.0	735.1	737.5	734.7	734.2	734.2	737.0	735.1	738.9
40°	671.1	670.6	668.7	669.6	670.1	666.8	667.7	668.2	670.1	673.9	674.4
42.5°	603.7	603.2	603.2	603.2	602.3	600.4	602.3	605.6	605.1	607.9	610.3
45°	538.7	537.7	539.6	538.2	541.0	542.0	540.6	541.5	544.4	546.3	550.0
47.5°	479.3	479.3	479.8	480.8	477.9	480.3	481.2	483.1	484.6	485.5	487.4
50°	424.3	424.3	423.3	423.3	423.3	424.8	422.9	425.2	425.7	429.5	431.9
52.5°	373.5	371.1	372.6	371.6	369.7	368.8	369.7	370.2	373.0	374.0	376.8
55°	325.1	325.1	321.3	320.3	321.8	321.3	320.8	320.8	322.2	323.7	326.0
57.5°	282.4	279.5	276.7	276.2	274.8	275.3	275.3	274.8	273.8	274.3	274.8
60°	242.0	240.1	235.9	235.9	235.4	234.9	232.5	232.1	229.7	230.2	228.3
62.5°	205.0	204.1	198.4	196.5	196.5	195.1	192.7	192.2	188.9	188.9	187.0
65°	171.8	169.0	165.6	162.3	162.3	160.4	159.0	154.7	152.3	150.9	148.1
67.5°	141.4	137.2	133.8	131.0	129.1	128.6	125.3	122.4	118.6	116.3	112.0
70°	112.0	108.7	105.4	102.5	100.6	98.7	95.4	91.1	88.3	84.0	81.2
72.5°	84.5	81.6	78.8	75.0	72.6	71.2	67.9	64.1	59.3	56.5	52.7
75°	60.7	57.4	53.6	50.3	48.9	47.5	43.7	40.8	37.5	34.2	30.4
77.5°	39.4	35.6	32.7	28.9	28.5	27.5	23.7	20.9	18.5	16.6	14.2
80°	20.9	19.0	16.6	14.2	13.3	11.9	10.0	8.5	7.1	5.7	4.7
82.5°	9.0	7.6	6.2	5.2	4.7	4.3	3.3	2.8	2.4	2.4	1.9
85°	2.4	1.9	1.9	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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°	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8
2.5°	1263.8	1264.3	1264.8	1264.8	1265.3	1265.7	1265.7	1266.2	1266.7	1267.2	1267.2
5°	1261.5	1261.5	1261.5	1261.9	1261.9	1261.9	1261.9	1262.9	1262.9	1263.4	1263.8
7.5°	1256.7	1256.7	1256.7	1256.7	1256.2	1256.7	1256.2	1256.2	1257.2	1257.7	1258.1
10°	1249.1	1248.6	1248.6	1248.2	1248.2	1248.2	1248.6	1249.1	1249.6	1250.1	1251.5
12.5°	1237.3	1236.8	1236.8	1236.3	1236.3	1236.8	1237.3	1238.2	1240.1	1241.1	1243.0
15°	1218.3	1217.8	1218.3	1218.7	1219.7	1221.1	1222.5	1224.0	1226.8	1229.2	1231.6
17.5°	1190.7	1191.2	1191.7	1192.6	1194.1	1196.0	1199.8	1203.6	1206.9	1210.7	1214.5
20°	1152.8	1154.7	1155.2	1158.5	1159.4	1163.7	1168.0	1173.7	1178.9	1183.6	1188.8
22.5°	1107.2	1108.6	1110.5	1114.3	1116.7	1122.4	1127.6	1134.3	1140.0	1146.1	1153.7
25°	1055.5	1056.0	1061.7	1061.7	1067.4	1072.1	1078.3	1085.4	1093.9	1102.0	1107.2
27.5°	996.6	999.0	1003.3	1005.2	1009.5	1017.0	1022.3	1030.8	1039.4	1046.5	1052.2
30°	934.9	936.8	944.0	944.9	948.2	954.9	962.0	970.1	976.7	984.8	990.0
32.5°	869.9	875.1	879.4	882.7	883.7	893.7	897.4	903.1	910.7	918.8	924.0
35°	806.8	809.2	815.3	817.2	820.1	825.8	833.4	838.1	841.9	847.1	853.3
37.5°	739.9	747.0	748.4	754.1	755.1	760.3	764.1	769.8	774.5	779.3	780.2
40°	677.7	680.1	685.3	686.7	687.7	694.8	699.5	701.0	703.3	707.6	713.3
42.5°	614.6	617.0	622.7	621.2	625.5	628.8	631.2	636.9	639.3	640.7	640.7
45°	552.4	553.4	557.2	559.1	561.4	563.3	567.6	570.5	571.4	575.7	577.1
47.5°	493.1	494.0	496.9	500.2	499.3	501.6	506.4	507.8	508.3	511.1	512.6
50°	434.7	437.1	440.9	439.9	442.8	444.2	448.5	449.4	449.4	449.9	450.4
52.5°	380.1	382.0	383.0	383.9	385.4	387.7	389.6	388.7	390.6	392.5	391.1
55°	326.0	327.5	329.8	330.8	330.8	331.3	330.3	334.6	332.7	332.2	332.7
57.5°	276.7	274.8	274.3	276.7	277.6	277.2	275.7	277.6	277.6	276.7	275.3
60°	228.8	227.3	226.9	227.3	225.4	224.0	225.0	224.0	221.6	220.7	221.2
62.5°	185.1	183.7	179.9	179.9	178.9	178.4	174.6	175.1	173.2	170.4	171.3
65°	144.7	141.0	139.1	138.6	135.3	132.4	131.5	128.1	125.3	124.8	125.3
67.5°	108.7	104.4	101.1	99.7	97.8	95.4	92.1	89.2	90.2	89.7	91.6
70°	75.5	72.6	69.3	66.9	67.9	65.0	63.1	63.1	63.6	64.1	65.0
72.5°	50.3	46.5	45.1	43.7	42.7	40.8	41.8	41.8	41.3	41.8	40.8
75°	28.5	26.6	25.2	24.7	23.7	23.7	23.7	23.7	23.3	22.8	22.8
77.5°	12.8	11.9	11.4	10.9	10.9	10.9	10.4	10.0	10.0	10.0	9.5
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
82.5°	1.9	1.9	2.4	2.4	2.4	1.9	2.4	2.4	1.9	1.9	2.4
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857595

CATALOG NUMBER: LX4C30D010 EX4C309050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8	1263.8
2.5°	1267.6	1268.1	1268.1	1268.1	1268.6	1268.6	1268.6	1268.6
5°	1264.3	1264.8	1264.8	1264.8	1265.3	1265.3	1265.3	1265.3
7.5°	1258.6	1259.1	1259.1	1259.6	1259.6	1260.0	1260.0	1260.5
10°	1252.0	1252.9	1253.4	1253.9	1254.3	1254.8	1254.8	1255.3
12.5°	1244.8	1245.8	1246.3	1247.2	1248.2	1248.6	1249.1	1249.6
15°	1234.4	1236.3	1237.3	1237.7	1239.6	1240.6	1241.1	1241.5
17.5°	1217.8	1221.6	1223.0	1224.0	1225.9	1227.8	1229.2	1229.7
20°	1194.1	1198.3	1200.2	1202.6	1205.5	1207.8	1208.8	1209.7
22.5°	1160.8	1165.6	1168.4	1171.3	1173.7	1176.0	1179.8	1178.4
25°	1113.4	1121.5	1124.8	1126.2	1131.4	1134.3	1136.2	1134.3
27.5°	1060.2	1065.0	1067.8	1071.1	1074.9	1077.8	1078.7	1081.6
30°	996.2	1004.2	1003.8	1007.1	1011.8	1014.7	1015.6	1018.0
32.5°	929.7	933.5	936.4	935.9	937.8	943.0	941.1	945.4
35°	859.0	859.5	864.2	863.8	867.6	867.6	867.6	870.4
37.5°	783.5	789.2	786.9	792.6	790.7	792.1	792.1	793.0
40°	714.7	716.6	716.6	718.5	720.0	718.5	719.5	721.9
42.5°	643.5	645.4	645.9	645.0	646.4	650.7	647.3	650.2
45°	577.1	578.5	580.4	579.0	581.4	579.9	581.4	580.4
47.5°	514.5	514.0	513.5	517.3	514.0	514.5	516.4	513.0
50°	450.4	453.2	451.3	452.8	453.7	453.7	452.3	452.3
52.5°	393.4	393.0	391.5	393.0	392.0	392.5	393.4	392.5
55°	334.6	336.5	335.5	335.1	335.5	335.5	338.4	334.6
57.5°	276.7	275.7	277.2	280.5	277.2	279.5	281.0	281.4
60°	221.6	221.6	224.5	223.1	225.9	228.3	230.2	229.2
62.5°	169.0	171.3	172.3	172.8	175.6	177.5	177.5	177.0
65°	125.3	128.6	128.6	130.5	131.5	131.5	132.4	134.3
67.5°	92.5	92.5	93.0	94.0	93.5	93.5	94.4	94.9
70°	64.5	63.6	65.0	64.5	64.5	64.1	64.5	64.5
72.5°	40.8	40.8	41.3	40.8	39.9	40.3	40.3	41.3
75°	21.8	22.8	21.8	21.8	22.3	21.4	21.8	22.3
77.5°	9.0	9.0	9.0	9.0	9.0	8.5	8.5	8.5
80°	4.3	4.3	4.3	4.3	4.3	4.3	3.8	3.8
82.5°	1.9	2.4	1.9	2.4	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	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)