

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: P857511

Luminaire Tested: **LX4C30D010 EX4C309027 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857511
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 EX4C309027 4LBLWW*
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

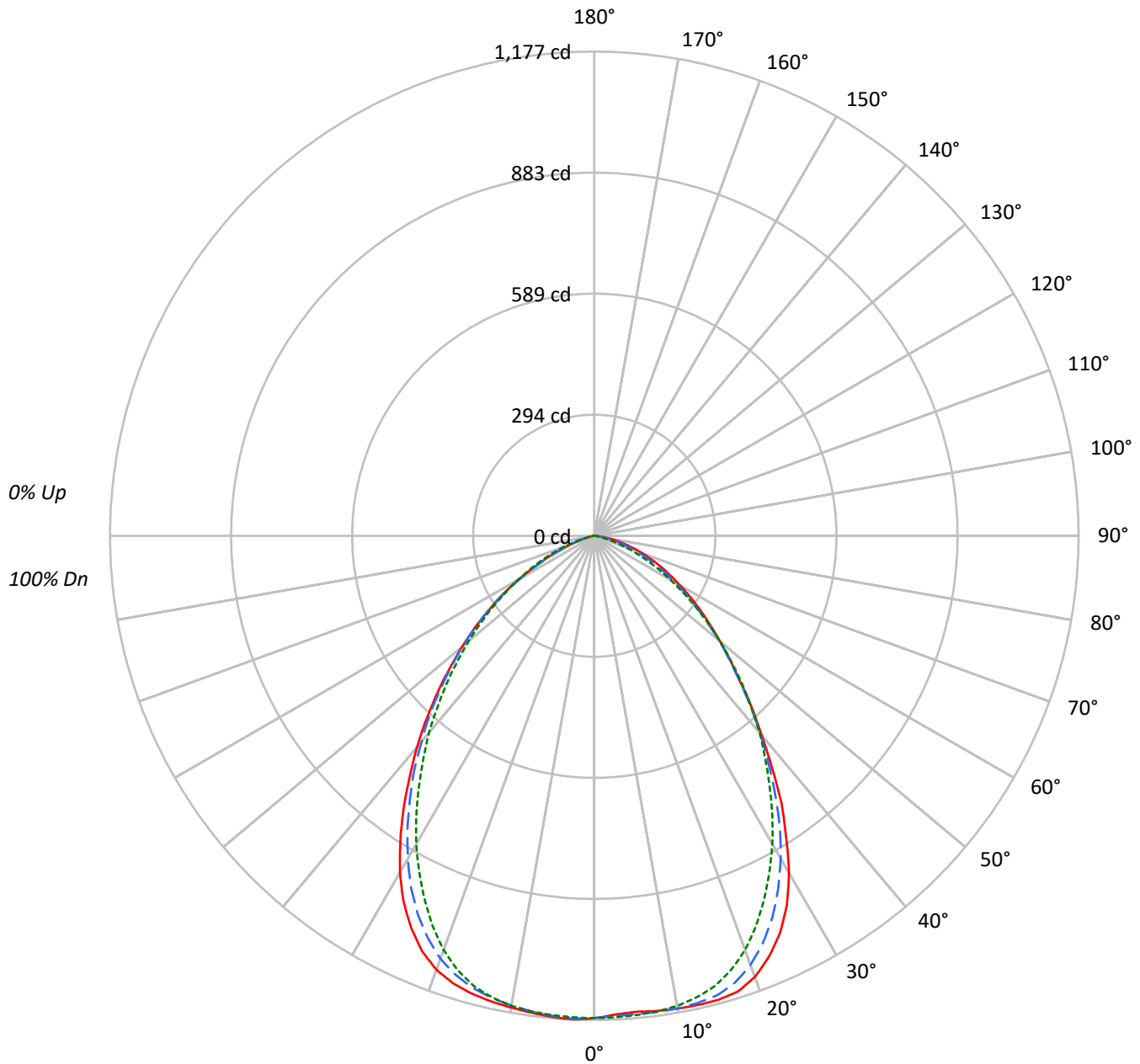
Lumens per Lamp: N/A
Luminaire Lumens: 2248.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74	93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65	86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57	80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51	75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46	70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42	65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38	61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35	58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	144058	144058	144058
5°	143239	144226	144769
10°	145619	144733	145282
15°	148466	144090	146507
20°	149211	140060	146740
25°	144622	132260	142643
30°	134227	122736	133986
35°	118871	111342	121106
40°	101324	100266	107402
45°	87062	88052	93560
50°	75992	76164	80197
55°	67148	64321	66484
60°	58847	52483	52262
65°	52093	40697	36221
70°	44433	27982	21516
75°	35932	15047	9826
80°	24620	3750	2476
85°	7471	1269	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	5.0
10°-20°	322.6	14.4
20°-30°	466.1	20.7
30°-40°	481.9	21.4
40°-50°	398.2	17.7
50°-60°	274.8	12.2
60°-70°	143.9	6.4
70°-80°	45.3	2.0
80°-90°	3.8	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°	900.2	40.0
0°-40°	1382.1	61.5
0°-60°	2055.0	91.4
0°-90°	2248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1173	1173	1173	1173	1173	
5°	1162	1167	1170	1172	1174	111
15°	1167	1156	1133	1138	1152	329
25°	1067	1024	976	1015	1052	487
35°	793	766	742	781	808	492
45°	501	499	507	530	538	391
55°	314	304	300	309	310	282
65°	179	162	140	116	125	178
75°	76	59	32	22	21	81
85°	5	3	1	1	1	11
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°	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6
2.5°	1165.1	1165.5	1165.5	1166.4	1166.4	1166.4	1166.8	1166.8	1167.3	1167.7	1168.2
5°	1161.5	1161.5	1162.4	1162.9	1163.7	1164.2	1165.1	1165.5	1166.4	1166.8	1167.3
7.5°	1165.1	1165.1	1165.5	1165.9	1165.9	1166.4	1166.4	1166.8	1167.3	1167.7	1167.7
10°	1167.3	1167.3	1167.3	1167.3	1167.7	1167.7	1167.7	1167.3	1167.3	1167.3	1166.8
12.5°	1168.2	1168.2	1167.7	1167.3	1167.7	1167.3	1167.3	1165.9	1165.1	1164.2	1162.9
15°	1167.3	1167.3	1166.8	1166.4	1165.9	1165.1	1164.6	1162.4	1160.7	1158.0	1156.3
17.5°	1161.5	1160.7	1159.8	1158.9	1157.1	1155.8	1154.9	1151.0	1147.9	1143.5	1138.6
20°	1141.3	1140.4	1139.1	1136.9	1134.7	1132.9	1130.3	1124.6	1121.5	1114.9	1110.0
22.5°	1108.3	1107.4	1107.8	1103.9	1099.5	1096.8	1095.1	1090.2	1084.9	1076.6	1071.3
25°	1066.9	1064.2	1064.2	1058.1	1055.9	1054.1	1051.9	1046.2	1038.3	1030.8	1023.7
27.5°	1013.2	1009.6	1007.9	1007.0	1001.7	997.7	994.7	990.3	983.7	977.1	967.4
30°	946.2	945.8	943.6	939.6	935.7	933.9	930.4	922.9	916.7	911.9	905.7
32.5°	867.4	867.0	867.0	867.0	864.3	863.9	858.6	854.6	849.8	842.3	838.4
35°	792.6	792.1	792.6	786.0	784.2	782.9	782.4	779.8	773.2	769.7	766.1
37.5°	708.0	709.3	708.5	706.7	708.9	704.9	708.0	702.3	699.7	698.8	694.8
40°	631.8	635.4	631.8	632.3	634.5	630.5	630.5	629.6	627.9	627.0	626.1
42.5°	566.7	562.3	564.9	562.7	564.9	563.6	561.4	562.7	563.2	561.4	561.0
45°	501.1	502.0	502.8	501.5	501.5	500.2	503.7	501.5	501.5	502.0	498.9
47.5°	447.8	446.5	447.4	446.5	446.9	446.0	446.9	447.4	446.5	446.5	443.8
50°	397.6	396.7	399.8	397.2	397.2	396.7	397.2	396.3	395.0	395.0	395.8
52.5°	354.0	352.3	351.8	354.0	350.9	350.9	351.4	350.5	348.7	347.8	345.6
55°	313.5	313.1	313.5	311.7	310.9	310.9	308.7	307.8	307.3	305.1	303.8
57.5°	275.6	274.3	274.8	274.3	272.6	272.1	270.4	270.4	268.6	266.8	264.6
60°	239.5	239.5	240.9	239.1	237.8	236.9	236.0	235.1	232.0	229.0	226.3
62.5°	207.4	207.8	207.4	206.1	205.2	204.3	203.4	200.8	198.1	196.4	193.3
65°	179.2	178.8	177.4	176.6	174.4	174.4	172.6	171.3	168.2	165.6	162.5
67.5°	150.1	149.3	149.3	149.3	146.6	146.2	145.3	142.7	140.0	136.5	133.9
70°	123.7	124.6	123.3	122.0	120.6	120.2	118.9	116.2	113.2	109.6	107.4
72.5°	98.6	99.5	98.2	97.7	95.1	94.2	93.8	91.6	88.1	85.9	82.3
75°	75.7	76.2	75.3	74.4	72.7	72.2	70.0	68.2	66.0	62.5	59.4
77.5°	54.6	53.7	53.7	52.0	50.2	50.2	49.8	47.1	44.0	41.4	38.7
80°	34.8	34.3	33.0	32.1	30.8	30.4	29.9	27.7	25.5	23.8	22.0
82.5°	17.6	17.2	16.7	16.3	15.4	14.5	15.0	13.2	12.3	10.6	9.2
85°	5.3	5.7	5.7	5.3	4.8	4.8	4.8	4.4	3.5	3.1	2.6
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°	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6
2.5°	1168.6	1169.0	1169.5	1169.9	1169.9	1170.4	1170.8	1171.2	1171.7	1171.7	1172.1
5°	1167.7	1168.6	1168.6	1169.0	1169.0	1169.0	1169.5	1169.5	1169.5	1169.5	1169.9
7.5°	1168.2	1168.2	1168.2	1167.7	1167.7	1167.3	1167.3	1167.3	1166.4	1166.4	1166.4
10°	1165.9	1165.5	1165.1	1164.2	1163.7	1163.3	1162.4	1161.5	1160.7	1160.2	1159.3
12.5°	1161.5	1159.8	1158.0	1156.3	1155.4	1154.9	1153.2	1151.9	1150.5	1149.2	1148.3
15°	1152.7	1150.1	1147.0	1143.5	1142.6	1141.7	1138.6	1136.0	1134.2	1132.9	1130.7
17.5°	1135.1	1129.8	1126.3	1121.0	1118.8	1118.0	1113.1	1110.5	1107.4	1106.5	1104.7
20°	1103.9	1099.0	1092.4	1087.6	1084.9	1082.3	1078.3	1074.8	1071.3	1071.3	1069.1
22.5°	1064.7	1058.5	1050.1	1044.0	1043.5	1038.3	1034.7	1030.8	1029.5	1026.8	1026.8
25°	1015.4	1010.1	1000.8	995.5	992.9	991.6	985.9	980.6	977.9	975.7	977.5
27.5°	960.8	952.8	945.8	939.2	937.0	934.3	929.1	926.9	922.0	921.6	921.1
30°	898.2	890.3	883.3	880.2	875.8	873.6	869.6	867.0	865.2	865.2	864.3
32.5°	832.6	825.6	822.1	815.5	813.3	810.2	807.5	804.9	805.8	804.9	805.3
35°	761.7	760.0	753.4	749.4	749.4	749.0	744.6	742.8	741.9	742.4	744.6
37.5°	694.4	689.1	684.7	682.0	684.2	681.6	681.2	681.2	683.8	682.0	685.6
40°	622.6	622.2	620.4	621.3	621.7	618.6	619.5	620.0	621.7	625.2	625.7
42.5°	560.1	559.6	559.6	559.6	558.8	557.0	558.8	561.8	561.4	564.0	566.2
45°	499.8	498.9	500.6	499.3	502.0	502.8	501.5	502.4	505.0	506.8	510.3
47.5°	444.7	444.7	445.2	446.0	443.4	445.6	446.5	448.2	449.6	450.4	452.2
50°	393.6	393.6	392.8	392.8	392.8	394.1	392.3	394.5	395.0	398.5	400.7
52.5°	346.5	344.3	345.6	344.8	343.0	342.1	343.0	343.4	346.1	347.0	349.6
55°	301.6	301.6	298.1	297.2	298.5	298.1	297.7	297.7	299.0	300.3	302.5
57.5°	262.0	259.3	256.7	256.3	254.9	255.4	255.4	254.9	254.1	254.5	254.9
60°	224.6	222.8	218.8	218.8	218.4	218.0	215.8	215.3	213.1	213.6	211.8
62.5°	190.2	189.3	184.1	182.3	182.3	181.0	178.8	178.3	175.2	175.2	173.5
65°	159.4	156.8	153.7	150.6	150.6	148.8	147.5	143.5	141.3	140.0	137.4
67.5°	131.2	127.3	124.2	121.5	119.8	119.3	116.2	113.6	110.1	107.9	103.9
70°	103.9	100.8	97.7	95.1	93.3	91.6	88.5	84.5	81.9	77.9	75.3
72.5°	78.4	75.7	73.1	69.6	67.4	66.0	63.0	59.4	55.0	52.4	48.9
75°	56.4	53.3	49.8	46.7	45.4	44.0	40.5	37.9	34.8	31.7	28.2
77.5°	36.5	33.0	30.4	26.9	26.4	25.5	22.0	19.4	17.2	15.4	13.2
80°	19.4	17.6	15.4	13.2	12.3	11.0	9.2	7.9	6.6	5.3	4.4
82.5°	8.4	7.0	5.7	4.8	4.4	4.0	3.1	2.6	2.2	2.2	1.8
85°	2.2	1.8	1.8	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.4	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°	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6
2.5°	1172.6	1173.0	1173.4	1173.4	1173.9	1174.3	1174.3	1174.8	1175.2	1175.6	1175.6
5°	1170.4	1170.4	1170.4	1170.8	1170.8	1170.8	1170.8	1171.7	1171.7	1172.1	1172.6
7.5°	1165.9	1165.9	1165.9	1165.9	1165.5	1165.9	1165.5	1165.5	1166.4	1166.8	1167.3
10°	1158.9	1158.5	1158.5	1158.0	1158.0	1158.0	1158.5	1158.9	1159.3	1159.8	1161.1
12.5°	1147.9	1147.5	1147.5	1147.0	1147.0	1147.5	1147.9	1148.8	1150.5	1151.4	1153.2
15°	1130.3	1129.8	1130.3	1130.7	1131.6	1132.9	1134.2	1135.6	1138.2	1140.4	1142.6
17.5°	1104.7	1105.2	1105.6	1106.5	1107.8	1109.6	1113.1	1116.6	1119.7	1123.2	1126.8
20°	1069.5	1071.3	1071.7	1074.8	1075.7	1079.6	1083.6	1088.9	1093.7	1098.1	1103.0
22.5°	1027.3	1028.6	1030.3	1033.9	1036.1	1041.3	1046.2	1052.3	1057.6	1063.4	1070.4
25°	979.3	979.7	985.0	985.0	990.3	994.7	1000.4	1007.0	1014.9	1022.4	1027.3
27.5°	924.7	926.9	930.8	932.6	936.5	943.6	948.4	956.4	964.3	970.9	976.2
30°	867.4	869.2	875.8	876.7	879.7	885.9	892.5	900.0	906.2	913.6	918.5
32.5°	807.1	811.9	815.9	819.0	819.9	829.1	832.6	837.9	845.0	852.4	857.3
35°	748.5	750.7	756.5	758.2	760.9	766.1	773.2	777.6	781.1	786.0	791.7
37.5°	686.4	693.1	694.4	699.7	700.5	705.4	708.9	714.2	718.6	723.0	723.9
40°	628.8	631.0	635.8	637.1	638.0	644.6	649.0	650.3	652.5	656.5	661.8
42.5°	570.2	572.4	577.7	576.4	580.3	583.4	585.6	590.9	593.1	594.4	594.4
45°	512.5	513.4	516.9	518.7	520.9	522.7	526.6	529.3	530.1	534.1	535.4
47.5°	457.5	458.4	461.0	464.1	463.2	465.4	469.8	471.1	471.6	474.2	475.5
50°	403.3	405.5	409.1	408.2	410.8	412.1	416.1	417.0	417.0	417.4	417.9
52.5°	352.7	354.5	355.3	356.2	357.5	359.7	361.5	360.6	362.4	364.1	362.8
55°	302.5	303.8	306.0	306.9	306.9	307.3	306.5	310.4	308.7	308.2	308.7
57.5°	256.7	254.9	254.5	256.7	257.6	257.1	255.8	257.6	257.6	256.7	255.4
60°	212.2	210.9	210.5	210.9	209.1	207.8	208.7	207.8	205.6	204.7	205.2
62.5°	171.7	170.4	166.9	166.9	166.0	165.6	162.0	162.5	160.7	158.1	159.0
65°	134.3	130.8	129.0	128.6	125.5	122.8	122.0	118.9	116.2	115.8	116.2
67.5°	100.8	96.9	93.8	92.5	90.7	88.5	85.4	82.8	83.7	83.2	85.0
70°	70.0	67.4	64.3	62.1	63.0	60.3	58.6	58.6	59.0	59.4	60.3
72.5°	46.7	43.2	41.8	40.5	39.6	37.9	38.7	38.7	38.3	38.7	37.9
75°	26.4	24.7	23.3	22.9	22.0	22.0	22.0	22.0	21.6	21.1	21.1
77.5°	11.9	11.0	10.6	10.1	10.1	10.1	9.7	9.2	9.2	9.2	8.8
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	1.8	1.8	2.2	2.2	2.2	1.8	2.2	2.2	1.8	1.8	2.2
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°	0.4	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: P857511

CATALOG NUMBER: LX4C30D010 EX4C309027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6	1172.6
2.5°	1176.1	1176.5	1176.5	1176.5	1177.0	1177.0	1177.0	1177.0
5°	1173.0	1173.4	1173.4	1173.4	1173.9	1173.9	1173.9	1173.9
7.5°	1167.7	1168.2	1168.2	1168.6	1168.6	1169.0	1169.0	1169.5
10°	1161.5	1162.4	1162.9	1163.3	1163.7	1164.2	1164.2	1164.6
12.5°	1154.9	1155.8	1156.3	1157.1	1158.0	1158.5	1158.9	1159.3
15°	1145.3	1147.0	1147.9	1148.3	1150.1	1151.0	1151.4	1151.9
17.5°	1129.8	1133.4	1134.7	1135.6	1137.3	1139.1	1140.4	1140.9
20°	1107.8	1111.8	1113.6	1115.8	1118.4	1120.6	1121.5	1122.4
22.5°	1077.0	1081.4	1084.1	1086.7	1088.9	1091.1	1094.6	1093.3
25°	1033.0	1040.5	1043.5	1044.9	1049.7	1052.3	1054.1	1052.3
27.5°	983.7	988.1	990.7	993.8	997.3	1000.0	1000.8	1003.5
30°	924.2	931.7	931.3	934.3	938.7	941.4	942.3	944.5
32.5°	862.6	866.1	868.7	868.3	870.1	874.9	873.1	877.1
35°	797.0	797.4	801.8	801.4	804.9	804.9	804.9	807.5
37.5°	727.0	732.2	730.0	735.3	733.6	734.9	734.9	735.8
40°	663.1	664.9	664.9	666.6	668.0	666.6	667.5	669.7
42.5°	597.1	598.8	599.3	598.4	599.7	603.7	600.6	603.2
45°	535.4	536.7	538.5	537.2	539.4	538.1	539.4	538.5
47.5°	477.3	476.9	476.4	479.9	476.9	477.3	479.1	476.0
50°	417.9	420.5	418.7	420.1	420.9	420.9	419.6	419.6
52.5°	365.0	364.6	363.3	364.6	363.7	364.1	365.0	364.1
55°	310.4	312.2	311.3	310.9	311.3	311.3	313.9	310.4
57.5°	256.7	255.8	257.1	260.2	257.1	259.3	260.7	261.1
60°	205.6	205.6	208.3	206.9	209.6	211.8	213.6	212.7
62.5°	156.8	159.0	159.8	160.3	162.9	164.7	164.7	164.2
65°	116.2	119.3	119.3	121.1	122.0	122.0	122.8	124.6
67.5°	85.9	85.9	86.3	87.2	86.7	86.7	87.6	88.1
70°	59.9	59.0	60.3	59.9	59.9	59.4	59.9	59.9
72.5°	37.9	37.9	38.3	37.9	37.0	37.4	37.4	38.3
75°	20.3	21.1	20.3	20.3	20.7	19.8	20.3	20.7
77.5°	8.4	8.4	8.4	8.4	8.4	7.9	7.9	7.9
80°	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5
82.5°	1.8	2.2	1.8	2.2	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)