

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: P857554

Luminaire Tested: **LX4C30D010 EX4C309035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857554
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 EX4C309035 4LBLWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

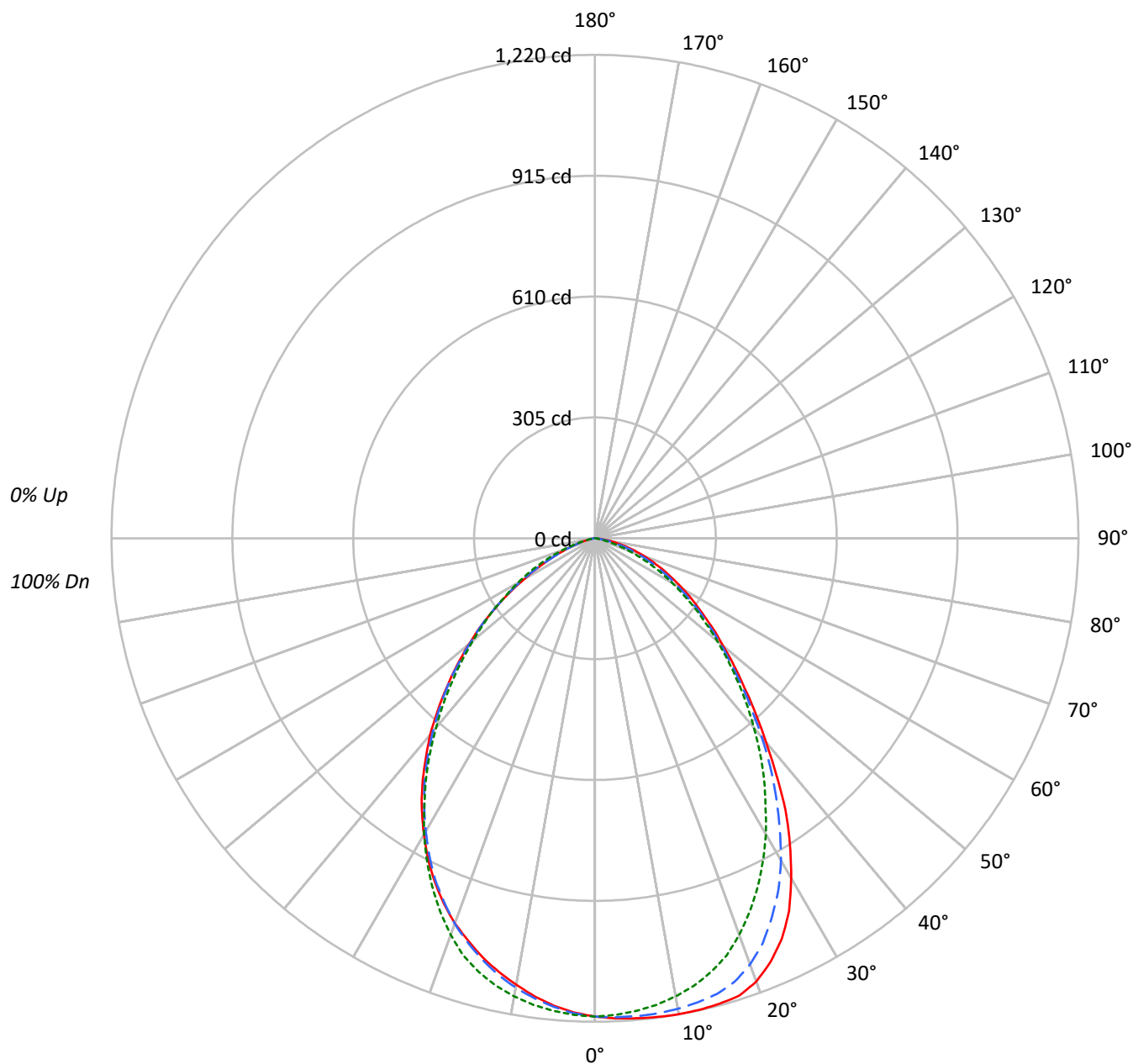
Lumens per Lamp: N/A
Luminaire Lumens: 2275.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	148309	148309	148309
5°	149960	147667	146063
10°	152156	146418	142712
15°	154660	144090	139308
20°	155644	139184	135183
25°	151170	131663	129657
30°	140483	122382	122438
35°	125755	111552	113922
40°	107675	99993	103650
45°	92691	88174	91475
50°	80579	76756	79069
55°	70896	66034	65435
60°	63098	55112	50763
65°	55349	44128	36715
70°	47522	31179	24857
75°	38591	18085	14525
80°	27592	7853	7216
85°	10431	3242	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	5.0
10°-20°	322.0	14.2
20°-30°	459.9	20.2
30°-40°	481.1	21.1
40°-50°	403.1	17.7
50°-60°	282.1	12.4
60°-70°	153.6	6.8
70°-80°	53.3	2.3
80°-90°	6.1	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°	895.7	39.4
0°-40°	1376.8	60.5
0°-60°	2061.9	90.6
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1207	1207	1207	1207	1207	
5°	1216	1210	1197	1187	1184	116
15°	1216	1190	1133	1100	1095	343
25°	1115	1056	971	952	956	509
35°	838	797	744	749	760	520
45°	534	521	508	524	526	415
55°	331	320	308	308	306	299
65°	190	174	152	128	126	190
75°	81	66	38	31	31	88
85°	7	4	2	2	2	13
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°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1212.7	1211.3	1211.8	1211.8	1211.8	1211.3	1211.8	1211.3	1211.3	1210.9	1210.0
5°	1216.0	1215.1	1215.1	1215.1	1214.6	1214.1	1214.1	1213.7	1212.7	1212.3	1210.4
7.5°	1218.3	1217.4	1217.4	1216.9	1216.5	1216.0	1215.5	1214.1	1212.7	1211.8	1209.5
10°	1219.7	1218.3	1218.3	1217.4	1216.5	1216.0	1215.1	1213.2	1211.3	1209.0	1205.8
12.5°	1218.8	1217.4	1216.9	1216.0	1214.1	1213.2	1212.3	1210.0	1206.7	1203.5	1199.3
15°	1216.0	1215.1	1214.1	1212.7	1210.4	1209.0	1208.1	1204.4	1200.2	1195.6	1190.5
17.5°	1210.4	1209.0	1207.2	1205.3	1202.1	1200.7	1198.3	1193.7	1187.7	1181.2	1173.3
20°	1190.5	1189.5	1187.7	1184.4	1179.3	1177.5	1174.2	1168.2	1160.3	1152.4	1144.0
22.5°	1157.5	1156.1	1153.3	1150.5	1145.9	1142.6	1139.8	1131.5	1122.7	1114.3	1106.4
25°	1115.2	1113.8	1110.1	1106.4	1101.8	1096.2	1093.4	1086.9	1078.1	1067.4	1055.8
27.5°	1060.9	1056.3	1054.9	1050.7	1043.7	1041.9	1037.7	1029.3	1021.0	1011.7	1002.0
30°	990.3	990.3	987.6	985.7	979.2	977.3	972.7	963.9	959.2	946.2	938.8
32.5°	915.6	914.7	912.3	910.9	907.2	904.0	899.3	894.7	884.5	878.0	867.8
35°	838.5	832.9	833.9	831.1	828.8	825.1	824.6	819.5	810.2	806.5	797.2
37.5°	750.8	748.4	751.7	747.5	745.2	745.7	741.9	738.7	735.0	728.5	726.6
40°	671.4	673.2	672.8	669.1	670.9	668.6	664.9	661.6	659.8	655.6	654.2
42.5°	600.3	597.5	596.6	596.6	597.1	597.1	595.2	592.9	592.9	588.7	584.5
45°	533.5	533.5	532.5	535.3	531.2	531.2	529.8	529.3	527.4	526.5	521.4
47.5°	475.9	475.4	475.0	474.5	474.0	474.0	471.3	468.9	468.5	465.7	462.9
50°	421.6	424.4	423.4	421.1	420.2	420.7	418.8	417.4	416.9	412.3	412.8
52.5°	376.1	375.6	376.5	375.2	372.8	373.3	371.4	369.6	367.7	365.4	363.5
55°	331.0	333.4	332.4	331.0	330.6	329.7	328.3	325.9	325.5	320.4	319.9
57.5°	293.4	293.0	292.0	289.7	289.3	287.9	287.9	286.0	283.2	280.4	278.1
60°	256.8	256.8	255.4	254.9	253.0	252.6	252.1	250.3	247.0	244.7	241.0
62.5°	221.5	222.4	221.5	220.1	218.7	216.8	215.9	214.5	211.7	209.4	206.1
65°	190.4	189.9	189.4	187.6	187.1	185.3	184.8	182.0	179.2	177.4	173.6
67.5°	160.6	159.3	159.3	158.3	157.4	156.0	155.1	152.3	149.0	147.2	143.5
70°	132.3	131.4	131.4	131.4	129.1	127.7	127.2	125.8	121.2	119.3	115.6
72.5°	106.3	105.9	105.4	104.0	102.6	102.6	100.8	98.0	95.6	93.3	90.5
75°	81.3	82.2	81.3	79.4	78.9	78.0	76.6	74.3	72.0	69.2	65.9
77.5°	59.4	58.5	57.6	57.6	56.6	54.8	54.3	52.5	49.7	47.8	44.6
80°	39.0	38.5	37.6	36.7	36.2	35.8	35.3	33.4	30.6	29.3	26.5
82.5°	21.4	20.9	20.9	20.4	19.0	19.0	18.6	16.7	15.3	14.4	13.0
85°	7.4	7.4	7.4	7.0	7.0	7.0	6.5	6.0	5.6	5.1	4.2
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°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1209.0	1208.1	1207.6	1207.2	1206.7	1206.2	1205.8	1204.8	1204.4	1203.9	1203.0
5°	1209.0	1207.2	1206.2	1204.8	1203.9	1203.0	1201.6	1200.2	1198.8	1197.4	1196.0
7.5°	1207.2	1204.4	1202.5	1199.7	1198.8	1197.4	1194.6	1192.8	1190.5	1187.7	1184.4
10°	1202.5	1199.3	1195.6	1191.8	1190.5	1188.1	1184.4	1181.2	1177.5	1173.7	1170.5
12.5°	1195.1	1190.0	1185.3	1180.2	1177.5	1175.1	1170.0	1165.4	1160.7	1156.6	1151.0
15°	1184.0	1177.9	1171.9	1164.9	1161.7	1158.9	1151.5	1145.9	1138.5	1132.9	1127.3
17.5°	1165.8	1156.6	1149.1	1140.3	1135.7	1132.4	1125.9	1117.1	1110.1	1104.1	1097.6
20°	1134.7	1125.9	1115.7	1106.0	1100.8	1096.7	1087.4	1078.1	1071.1	1064.6	1057.7
22.5°	1093.9	1082.7	1075.3	1063.2	1059.1	1054.0	1042.8	1034.5	1026.6	1020.1	1013.6
25°	1044.2	1034.5	1024.2	1013.1	1008.0	1002.0	992.7	983.8	978.7	971.3	963.4
27.5°	987.1	979.2	966.7	956.9	951.8	947.2	938.3	930.4	923.0	917.9	910.5
30°	926.7	917.4	906.3	896.1	893.3	887.7	879.8	873.8	865.9	862.7	859.4
32.5°	860.3	849.7	841.3	834.8	829.2	824.6	820.4	810.7	809.3	800.9	800.0
35°	787.9	783.3	775.4	769.8	765.2	761.9	754.9	750.3	745.2	743.8	740.6
37.5°	719.7	714.1	706.7	701.6	698.3	697.8	692.7	689.9	686.2	684.4	680.7
40°	648.2	645.8	639.3	638.4	633.3	632.8	630.1	626.8	623.5	623.5	624.0
42.5°	582.2	579.4	576.7	573.4	570.6	570.6	569.2	568.3	567.4	566.0	568.3
45°	520.5	516.8	514.9	511.7	513.0	510.3	509.3	509.3	507.9	507.5	510.7
47.5°	462.9	458.7	456.9	455.9	455.9	456.4	452.2	453.6	453.2	454.1	455.5
50°	410.4	406.7	403.9	403.9	404.4	402.5	400.7	402.1	400.7	401.6	404.9
52.5°	361.7	358.0	356.6	356.6	353.8	353.3	354.3	352.4	352.9	353.3	355.2
55°	316.7	314.3	312.0	309.7	310.1	309.2	307.4	306.9	307.8	308.3	310.6
57.5°	276.3	273.0	269.8	268.8	267.9	267.9	265.6	265.1	266.0	263.7	263.7
60°	237.7	235.9	231.7	230.3	230.3	228.0	226.1	227.0	224.7	224.3	224.7
62.5°	202.0	200.6	197.8	195.0	194.1	193.1	190.8	189.9	189.0	187.1	184.3
65°	170.9	167.6	164.4	162.5	161.1	158.8	157.4	155.5	152.8	151.8	149.0
67.5°	139.8	136.5	133.3	131.9	130.5	129.1	126.8	124.4	121.2	117.5	114.2
70°	112.4	108.2	106.3	102.6	101.7	99.8	96.6	94.3	91.0	86.8	83.6
72.5°	85.9	83.1	80.3	77.1	74.8	73.4	70.6	66.9	63.1	60.8	57.6
75°	61.8	60.4	56.6	52.9	52.0	50.1	46.9	44.6	41.8	38.1	35.3
77.5°	41.8	39.0	36.7	33.4	32.5	30.6	28.8	26.5	24.6	22.3	20.4
80°	24.6	22.3	20.9	18.6	17.6	16.7	15.3	13.5	12.1	11.1	10.7
82.5°	12.1	10.2	9.8	8.4	7.9	7.4	6.5	6.0	5.1	5.1	5.1
85°	4.2	3.3	3.3	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1202.5	1202.1	1201.6	1201.1	1201.1	1200.7	1200.7	1200.2	1200.2	1199.7	1199.7
5°	1194.2	1192.8	1191.8	1190.9	1190.9	1189.5	1188.6	1187.7	1187.2	1187.2	1186.3
7.5°	1182.6	1180.7	1178.8	1177.5	1177.0	1174.7	1172.8	1172.8	1171.0	1170.0	1169.1
10°	1167.2	1164.0	1161.2	1159.8	1158.0	1156.6	1154.2	1152.8	1151.5	1149.1	1148.7
12.5°	1146.3	1144.0	1139.8	1138.0	1137.1	1134.3	1130.6	1128.7	1128.2	1126.4	1125.0
15°	1122.7	1117.6	1113.8	1111.5	1111.5	1106.9	1105.0	1102.2	1100.4	1099.0	1098.5
17.5°	1092.0	1086.9	1083.2	1080.0	1079.0	1075.3	1072.5	1071.6	1069.3	1070.2	1067.9
20°	1052.6	1048.4	1045.6	1041.4	1041.4	1039.1	1038.2	1035.8	1034.9	1034.0	1034.9
22.5°	1010.3	1005.2	1000.6	1000.1	1000.1	996.8	996.4	995.9	994.1	995.5	995.0
25°	960.6	956.9	954.1	953.7	953.7	951.8	950.0	950.9	952.3	951.8	953.2
27.5°	909.1	905.4	904.4	904.0	903.1	902.6	903.5	903.5	904.9	906.8	908.6
30°	853.4	852.4	851.1	850.6	849.7	852.0	852.9	854.3	853.8	856.6	858.5
32.5°	797.7	795.8	795.3	796.3	797.7	797.2	800.0	800.9	801.8	805.1	806.5
35°	741.5	741.0	740.1	740.1	740.6	744.3	744.3	747.5	749.4	750.3	754.0
37.5°	681.1	683.0	683.9	685.3	685.8	687.2	688.1	691.3	693.2	695.1	696.9
40°	625.9	624.9	629.1	626.3	627.3	631.4	633.3	632.8	635.6	638.4	640.3
42.5°	566.9	568.3	569.2	570.2	572.5	572.9	575.3	578.5	579.4	582.7	583.6
45°	509.8	510.3	512.1	514.0	515.4	519.1	520.0	521.4	524.2	524.2	525.6
47.5°	455.9	457.8	457.8	460.6	462.9	462.4	465.7	466.6	466.2	468.5	469.4
50°	404.4	407.2	406.7	408.6	409.5	410.0	412.8	413.7	411.8	414.2	414.6
52.5°	355.2	356.6	358.4	358.9	358.0	360.3	359.4	361.2	360.8	362.6	360.8
55°	310.1	309.7	309.7	310.6	309.7	310.6	311.5	309.7	308.3	310.1	309.7
57.5°	265.1	265.1	264.2	265.6	264.2	262.8	262.3	260.9	259.5	259.5	259.1
60°	222.9	221.9	220.1	219.6	219.6	217.3	216.4	214.5	214.5	212.6	210.8
62.5°	183.4	181.1	179.7	179.7	178.8	176.4	172.3	169.5	168.5	165.8	165.3
65°	146.3	143.9	142.5	139.8	137.4	136.5	132.3	129.1	127.7	124.9	125.4
67.5°	112.4	108.6	104.5	102.6	101.2	98.0	96.6	94.3	92.9	92.9	92.9
70°	80.8	77.5	73.4	72.0	71.0	68.3	66.9	66.4	67.8	67.3	67.8
72.5°	54.3	51.1	49.2	48.3	47.4	46.0	46.9	47.4	46.4	46.9	47.4
75°	33.0	32.0	30.6	30.2	30.2	30.6	30.2	30.2	30.6	30.6	31.1
77.5°	19.0	18.1	18.1	17.6	18.6	18.1	18.1	18.1	18.6	18.6	18.6
80°	10.2	10.2	10.2	10.2	10.7	10.2	10.7	10.7	10.7	10.7	10.7
82.5°	5.1	5.1	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.1
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: P857554

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1198.8	1198.8	1198.8	1197.9	1198.3	1198.3	1197.9	1197.9
5°	1185.8	1185.3	1184.4	1184.4	1183.5	1184.4	1184.0	1184.4
7.5°	1168.2	1168.2	1166.8	1166.8	1166.3	1165.8	1165.4	1165.8
10°	1147.3	1147.3	1146.3	1145.9	1146.3	1144.5	1144.5	1144.0
12.5°	1124.1	1123.1	1122.2	1122.7	1122.2	1120.8	1120.3	1120.8
15°	1097.1	1095.7	1096.2	1094.8	1094.8	1094.3	1095.3	1095.3
17.5°	1067.4	1066.5	1065.6	1066.0	1065.1	1065.6	1065.1	1064.6
20°	1034.5	1034.0	1034.0	1032.1	1032.6	1032.1	1032.6	1034.0
22.5°	996.4	995.9	996.4	995.0	995.9	995.9	997.3	997.3
25°	954.6	954.1	955.1	955.5	956.0	957.4	956.0	956.5
27.5°	908.2	909.6	910.9	911.4	913.3	911.9	910.9	912.3
30°	861.3	861.3	860.8	862.7	864.1	865.4	863.1	863.1
32.5°	807.4	809.7	809.7	810.2	811.6	811.6	811.6	813.4
35°	755.9	757.3	757.7	755.9	756.8	756.3	759.6	759.6
37.5°	698.3	698.3	698.8	702.0	702.0	700.6	701.6	701.6
40°	643.5	644.0	642.1	643.1	645.4	644.4	645.4	646.3
42.5°	583.6	586.9	585.0	585.9	585.5	585.9	586.4	586.4
45°	526.5	527.4	527.4	527.9	528.8	529.8	527.0	526.5
47.5°	470.8	471.3	472.7	470.3	473.1	470.3	473.1	469.9
50°	414.6	416.5	415.1	416.0	414.6	414.6	414.2	413.7
52.5°	361.2	360.8	360.8	360.3	360.3	361.2	360.3	361.7
55°	307.8	308.3	307.4	306.9	306.4	307.8	306.4	305.5
57.5°	257.2	258.1	256.3	257.2	254.0	255.4	255.8	256.3
60°	210.3	208.9	208.9	207.1	207.1	208.5	206.6	206.6
62.5°	163.0	163.9	162.5	164.4	164.4	166.2	165.3	166.2
65°	124.9	125.4	125.8	125.8	125.8	128.6	127.7	126.3
67.5°	94.3	94.7	95.2	94.7	96.1	95.2	95.2	95.6
70°	68.3	68.7	69.2	69.2	68.7	69.2	69.2	69.2
72.5°	47.4	47.8	47.4	47.8	48.3	47.8	47.8	48.3
75°	31.1	31.1	30.6	30.6	30.6	30.6	31.1	30.6
77.5°	18.1	18.6	18.1	18.6	18.6	18.6	18.6	18.6
80°	10.7	10.7	10.7	10.2	10.7	10.7	10.7	10.2
82.5°	5.6	5.6	5.1	5.1	5.6	5.6	5.6	5.6
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)