

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: P857512

Luminaire Tested: **LX4C30D010 EX4C309027 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857512
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 EX4C309027 4LBLWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

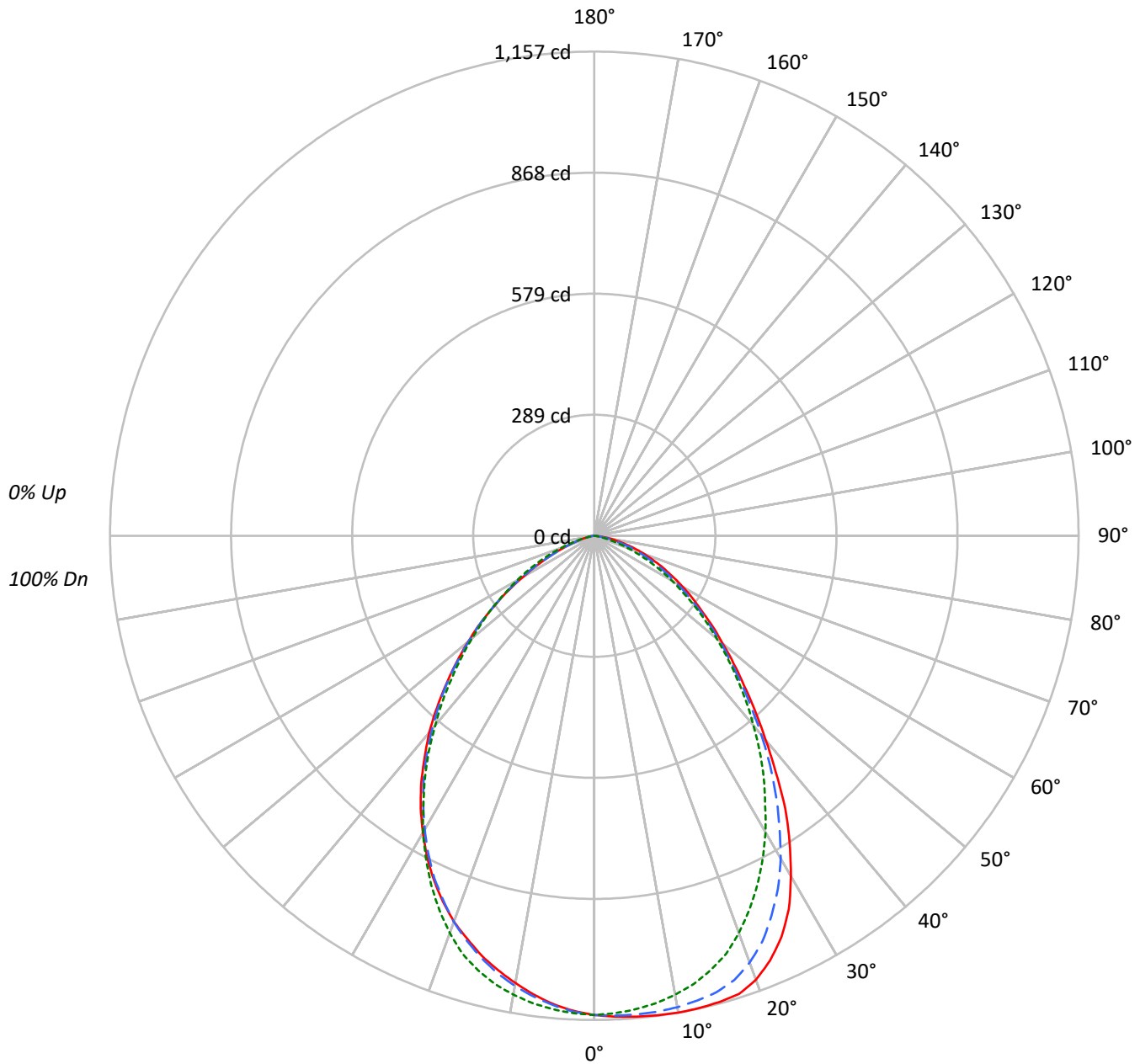
Lumens per Lamp: N/A
Luminaire Lumens: 2158.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		49	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	140680	140680	140680
5°	142253	140070	138553
10°	144334	138895	135377
15°	146711	136675	132135
20°	147629	132032	128228
25°	143402	124899	122988
30°	133262	116083	116140
35°	119291	105823	108058
40°	102126	94861	98325
45°	87913	83639	86766
50°	76431	72819	74998
55°	67255	62629	62072
60°	59854	52262	48159
65°	52500	41860	34825
70°	45080	29598	23563
75°	36597	17136	13813
80°	26177	7499	6863
85°	9867	3101	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	5.0
10°-20°	305.5	14.2
20°-30°	436.2	20.2
30°-40°	456.3	21.1
40°-50°	382.4	17.7
50°-60°	267.6	12.4
60°-70°	145.7	6.8
70°-80°	50.6	2.3
80°-90°	5.8	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°	849.6	39.4
0°-40°	1306.0	60.5
0°-60°	1955.9	90.6
0°-90°	2158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1145	1145	1145	1145	1145	
5°	1154	1148	1136	1126	1124	110
15°	1154	1129	1075	1044	1039	326
25°	1058	1002	921	903	907	483
35°	795	756	706	711	720	493
45°	506	495	481	497	499	393
55°	314	303	292	292	290	284
65°	181	165	144	121	120	180
75°	77	62	36	29	29	83
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°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1150.4	1149.1	1149.5	1149.5	1149.5	1149.1	1149.5	1149.1	1149.1	1148.6	1147.7
5°	1153.5	1152.6	1152.6	1152.6	1152.1	1151.7	1151.7	1151.3	1150.4	1149.9	1148.2
7.5°	1155.7	1154.8	1154.8	1154.3	1153.9	1153.5	1153.0	1151.7	1150.4	1149.5	1147.3
10°	1157.0	1155.7	1155.7	1154.8	1153.9	1153.5	1152.6	1150.8	1149.1	1146.8	1143.8
12.5°	1156.1	1154.8	1154.3	1153.5	1151.7	1150.8	1149.9	1147.7	1144.6	1141.6	1137.6
15°	1153.5	1152.6	1151.7	1150.4	1148.2	1146.8	1146.0	1142.4	1138.5	1134.1	1129.2
17.5°	1148.2	1146.8	1145.1	1143.3	1140.2	1138.9	1136.7	1132.3	1126.6	1120.4	1112.9
20°	1129.2	1128.4	1126.6	1123.5	1118.7	1116.9	1113.8	1108.1	1100.6	1093.1	1085.2
22.5°	1098.0	1096.6	1094.0	1091.4	1087.0	1083.9	1081.2	1073.3	1064.9	1057.0	1049.5
25°	1057.9	1056.6	1053.0	1049.5	1045.1	1039.8	1037.2	1031.0	1022.7	1012.5	1001.5
27.5°	1006.4	1002.0	1000.6	996.7	990.1	988.3	984.3	976.4	968.5	959.7	950.4
30°	939.4	939.4	936.8	935.0	928.8	927.1	922.7	914.3	909.9	897.6	890.5
32.5°	868.5	867.6	865.4	864.1	860.6	857.5	853.1	848.7	839.0	832.8	823.1
35°	795.4	790.1	791.0	788.3	786.1	782.6	782.2	777.3	768.5	765.0	756.2
37.5°	712.2	710.0	713.0	709.1	706.9	707.3	703.8	700.7	697.2	691.0	689.3
40°	636.8	638.6	638.2	634.6	636.4	634.2	630.7	627.6	625.8	621.9	620.5
42.5°	569.5	566.8	565.9	565.9	566.4	566.4	564.6	562.4	562.4	558.5	554.5
45°	506.0	506.0	505.2	507.8	503.8	503.8	502.5	502.1	500.3	499.4	494.6
47.5°	451.4	451.0	450.5	450.1	449.7	449.7	447.0	444.8	444.4	441.7	439.1
50°	399.9	402.5	401.7	399.5	398.6	399.0	397.3	395.9	395.5	391.1	391.5
52.5°	356.7	356.3	357.2	355.9	353.7	354.1	352.3	350.6	348.8	346.6	344.8
55°	314.0	316.2	315.3	314.0	313.6	312.7	311.4	309.2	308.7	303.9	303.4
57.5°	278.3	277.9	277.0	274.8	274.4	273.1	273.1	271.3	268.7	266.0	263.8
60°	243.6	243.6	242.2	241.8	240.0	239.6	239.1	237.4	234.3	232.1	228.6
62.5°	210.1	211.0	210.1	208.8	207.4	205.7	204.8	203.5	200.8	198.6	195.5
65°	180.6	180.1	179.7	177.9	177.5	175.7	175.3	172.6	170.0	168.2	164.7
67.5°	152.4	151.1	151.1	150.2	149.3	148.0	147.1	144.5	141.4	139.6	136.1
70°	125.5	124.6	124.6	124.6	122.4	121.1	120.7	119.4	114.9	113.2	109.7
72.5°	100.9	100.4	100.0	98.7	97.3	97.3	95.6	92.9	90.7	88.5	85.9
75°	77.1	78.0	77.1	75.3	74.9	74.0	72.7	70.5	68.3	65.6	62.5
77.5°	56.4	55.5	54.6	54.6	53.7	52.0	51.5	49.8	47.1	45.4	42.3
80°	37.0	36.6	35.7	34.8	34.4	33.9	33.5	31.7	29.1	27.7	25.1
82.5°	20.3	19.8	19.8	19.4	18.1	18.1	17.6	15.9	14.5	13.7	12.3
85°	7.0	7.0	7.0	6.6	6.6	6.6	6.2	5.7	5.3	4.8	4.0
87.5°	0.9	0.4	0.9	0.4	0.9	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°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1146.8	1146.0	1145.5	1145.1	1144.6	1144.2	1143.8	1142.9	1142.4	1142.0	1141.1
5°	1146.8	1145.1	1144.2	1142.9	1142.0	1141.1	1139.8	1138.5	1137.2	1135.8	1134.5
7.5°	1145.1	1142.4	1140.7	1138.0	1137.2	1135.8	1133.2	1131.4	1129.2	1126.6	1123.5
10°	1140.7	1137.6	1134.1	1130.6	1129.2	1127.0	1123.5	1120.4	1116.9	1113.4	1110.3
12.5°	1133.6	1128.8	1124.4	1119.5	1116.9	1114.7	1109.9	1105.4	1101.0	1097.1	1091.8
15°	1123.1	1117.3	1111.6	1105.0	1101.9	1099.3	1092.2	1087.0	1079.9	1074.6	1069.3
17.5°	1105.9	1097.1	1090.0	1081.7	1077.3	1074.2	1068.0	1059.6	1053.0	1047.3	1041.1
20°	1076.4	1068.0	1058.3	1049.1	1044.2	1040.3	1031.5	1022.7	1016.0	1009.9	1003.3
22.5°	1037.6	1027.1	1020.0	1008.6	1004.6	999.7	989.2	981.3	973.8	967.6	961.4
25°	990.5	981.3	971.6	961.0	956.1	950.4	941.6	933.2	928.4	921.4	913.9
27.5°	936.3	928.8	917.0	907.7	902.9	898.5	890.1	882.6	875.6	870.7	863.7
30°	879.1	870.3	859.7	850.0	847.4	842.1	834.6	828.9	821.4	818.3	815.2
32.5°	816.1	806.0	798.0	791.9	786.6	782.2	778.2	769.0	767.6	759.7	758.8
35°	747.4	743.0	735.5	730.2	725.8	722.7	716.1	711.7	706.9	705.6	702.5
37.5°	682.6	677.4	670.3	665.5	662.4	661.9	657.1	654.5	650.9	649.2	645.7
40°	614.8	612.6	606.5	605.6	600.7	600.3	597.6	594.6	591.5	591.5	591.9
42.5°	552.3	549.6	547.0	543.9	541.3	541.3	540.0	539.1	538.2	536.9	539.1
45°	493.7	490.2	488.4	485.3	486.7	484.0	483.1	483.1	481.8	481.4	484.5
47.5°	439.1	435.1	433.4	432.5	432.5	432.9	429.0	430.3	429.8	430.7	432.1
50°	389.3	385.8	383.2	383.2	383.6	381.8	380.1	381.4	380.1	381.0	384.0
52.5°	343.1	339.6	338.2	338.2	335.6	335.2	336.0	334.3	334.7	335.2	336.9
55°	300.4	298.2	296.0	293.8	294.2	293.3	291.6	291.1	292.0	292.4	294.6
57.5°	262.0	259.0	255.9	255.0	254.1	254.1	251.9	251.5	252.4	250.2	250.2
60°	225.5	223.7	219.8	218.4	218.4	216.2	214.5	215.4	213.2	212.7	213.2
62.5°	191.6	190.3	187.6	185.0	184.1	183.2	181.0	180.1	179.3	177.5	174.8
65°	162.1	159.0	155.9	154.1	152.8	150.6	149.3	147.5	144.9	144.0	141.4
67.5°	132.6	129.5	126.4	125.1	123.8	122.4	120.2	118.0	114.9	111.4	108.3
70°	106.6	102.6	100.9	97.3	96.5	94.7	91.6	89.4	86.3	82.4	79.3
72.5°	81.5	78.8	76.2	73.1	70.9	69.6	66.9	63.4	59.9	57.7	54.6
75°	58.6	57.3	53.7	50.2	49.3	47.6	44.5	42.3	39.6	36.1	33.5
77.5°	39.6	37.0	34.8	31.7	30.8	29.1	27.3	25.1	23.3	21.1	19.4
80°	23.3	21.1	19.8	17.6	16.7	15.9	14.5	12.8	11.5	10.6	10.1
82.5°	11.5	9.7	9.2	7.9	7.5	7.0	6.2	5.7	4.8	4.8	4.8
85°	4.0	3.1	3.1	2.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1140.7	1140.2	1139.8	1139.4	1139.4	1138.9	1138.9	1138.5	1138.5	1138.0	1138.0
5°	1132.8	1131.4	1130.6	1129.7	1129.7	1128.4	1127.5	1126.6	1126.1	1126.1	1125.3
7.5°	1121.7	1120.0	1118.2	1116.9	1116.5	1114.3	1112.5	1112.5	1110.7	1109.9	1109.0
10°	1107.2	1104.1	1101.5	1100.2	1098.4	1097.1	1094.9	1093.6	1092.2	1090.0	1089.6
12.5°	1087.4	1085.2	1081.2	1079.5	1078.6	1075.9	1072.4	1070.7	1070.2	1068.5	1067.1
15°	1064.9	1060.1	1056.6	1054.4	1054.4	1050.0	1048.2	1045.6	1043.8	1042.5	1042.0
17.5°	1035.9	1031.0	1027.5	1024.4	1023.5	1020.0	1017.4	1016.5	1014.3	1015.2	1013.0
20°	998.4	994.5	991.8	987.9	987.9	985.7	984.8	982.6	981.7	980.8	981.7
22.5°	958.4	953.5	949.1	948.7	948.7	945.6	945.1	944.7	942.9	944.3	943.8
25°	911.2	907.7	905.1	904.6	904.6	902.9	901.1	902.0	903.3	902.9	904.2
27.5°	862.3	858.8	857.9	857.5	856.6	856.2	857.1	857.1	858.4	860.1	861.9
30°	809.5	808.6	807.3	806.8	806.0	808.2	809.0	810.4	809.9	812.6	814.3
32.5°	756.6	754.9	754.4	755.3	756.6	756.2	758.8	759.7	760.6	763.7	765.0
35°	703.3	702.9	702.0	702.0	702.5	706.0	706.0	709.1	710.8	711.7	715.2
37.5°	646.1	647.9	648.7	650.1	650.5	651.8	652.7	655.8	657.5	659.3	661.1
40°	593.7	592.8	596.8	594.1	595.0	599.0	600.7	600.3	602.9	605.6	607.3
42.5°	537.8	539.1	540.0	540.8	543.0	543.5	545.7	548.8	549.6	552.7	553.6
45°	483.6	484.0	485.8	487.5	488.9	492.4	493.3	494.6	497.2	497.2	498.6
47.5°	432.5	434.3	434.3	436.9	439.1	438.7	441.7	442.6	442.2	444.4	445.3
50°	383.6	386.2	385.8	387.6	388.4	388.9	391.5	392.4	390.7	392.9	393.3
52.5°	336.9	338.2	340.0	340.4	339.6	341.8	340.9	342.6	342.2	344.0	342.2
55°	294.2	293.8	293.8	294.6	293.8	294.6	295.5	293.8	292.4	294.2	293.8
57.5°	251.5	251.5	250.6	251.9	250.6	249.3	248.8	247.5	246.2	246.2	245.8
60°	211.4	210.5	208.8	208.3	208.3	206.1	205.2	203.5	203.5	201.7	199.9
62.5°	174.0	171.8	170.4	170.4	169.6	167.4	163.4	160.8	159.9	157.2	156.8
65°	138.7	136.5	135.2	132.6	130.4	129.5	125.5	122.4	121.1	118.5	118.9
67.5°	106.6	103.1	99.1	97.3	96.0	92.9	91.6	89.4	88.1	88.1	88.1
70°	76.6	73.5	69.6	68.3	67.4	64.7	63.4	63.0	64.3	63.9	64.3
72.5°	51.5	48.4	46.7	45.8	44.9	43.6	44.5	44.9	44.0	44.5	44.9
75°	31.3	30.4	29.1	28.6	28.6	29.1	28.6	28.6	29.1	29.1	29.5
77.5°	18.1	17.2	17.2	16.7	17.6	17.2	17.2	17.2	17.6	17.6	17.6
80°	9.7	9.7	9.7	9.7	10.1	9.7	10.1	10.1	10.1	10.1	10.1
82.5°	4.8	4.8	4.8	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.8
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	0.4	0.9	0.9	0.9	0.9	0.9	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: P857512

CATALOG NUMBER: LX4C30D010 EX4C309027 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1137.2	1137.2	1137.2	1136.3	1136.7	1136.7	1136.3	1136.3
5°	1124.8	1124.4	1123.5	1123.5	1122.6	1123.5	1123.1	1123.5
7.5°	1108.1	1108.1	1106.8	1106.8	1106.3	1105.9	1105.4	1105.9
10°	1088.3	1088.3	1087.4	1087.0	1087.4	1085.6	1085.6	1085.2
12.5°	1066.3	1065.4	1064.5	1064.9	1064.5	1063.2	1062.7	1063.2
15°	1040.7	1039.4	1039.8	1038.5	1038.5	1038.1	1038.9	1038.9
17.5°	1012.5	1011.6	1010.8	1011.2	1010.3	1010.8	1010.3	1009.9
20°	981.3	980.8	980.8	979.0	979.5	979.0	979.5	980.8
22.5°	945.1	944.7	945.1	943.8	944.7	944.7	946.0	946.0
25°	905.5	905.1	905.9	906.4	906.8	908.1	906.8	907.3
27.5°	861.5	862.8	864.1	864.5	866.3	865.0	864.1	865.4
30°	817.0	817.0	816.5	818.3	819.6	820.9	818.7	818.7
32.5°	765.9	768.1	768.1	768.5	769.9	769.9	769.9	771.6
35°	717.0	718.3	718.8	717.0	717.9	717.4	720.5	720.5
37.5°	662.4	662.4	662.8	665.9	665.9	664.6	665.5	665.5
40°	610.4	610.9	609.1	610.0	612.2	611.3	612.2	613.1
42.5°	553.6	556.7	554.9	555.8	555.4	555.8	556.2	556.2
45°	499.4	500.3	500.3	500.8	501.6	502.5	499.9	499.4
47.5°	446.6	447.0	448.3	446.1	448.8	446.1	448.8	445.7
50°	393.3	395.1	393.7	394.6	393.3	393.3	392.9	392.4
52.5°	342.6	342.2	342.2	341.8	341.8	342.6	341.8	343.1
55°	292.0	292.4	291.6	291.1	290.7	292.0	290.7	289.8
57.5°	244.0	244.9	243.1	244.0	240.9	242.2	242.7	243.1
60°	199.5	198.2	198.2	196.4	196.4	197.7	196.0	196.0
62.5°	154.6	155.5	154.1	155.9	155.9	157.7	156.8	157.7
65°	118.5	118.9	119.4	119.4	119.4	122.0	121.1	119.8
67.5°	89.4	89.8	90.3	89.8	91.2	90.3	90.3	90.7
70°	64.7	65.2	65.6	65.6	65.2	65.6	65.6	65.6
72.5°	44.9	45.4	44.9	45.4	45.8	45.4	45.4	45.8
75°	29.5	29.5	29.1	29.1	29.1	29.1	29.5	29.1
77.5°	17.2	17.6	17.2	17.6	17.6	17.6	17.6	17.6
80°	10.1	10.1	10.1	9.7	10.1	10.1	10.1	9.7
82.5°	5.3	5.3	4.8	4.8	5.3	5.3	5.3	5.3
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)