

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: P857680

Luminaire Tested: **LX4C30D010 EX4C309030 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857680
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 EX4C309030 4LBLWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

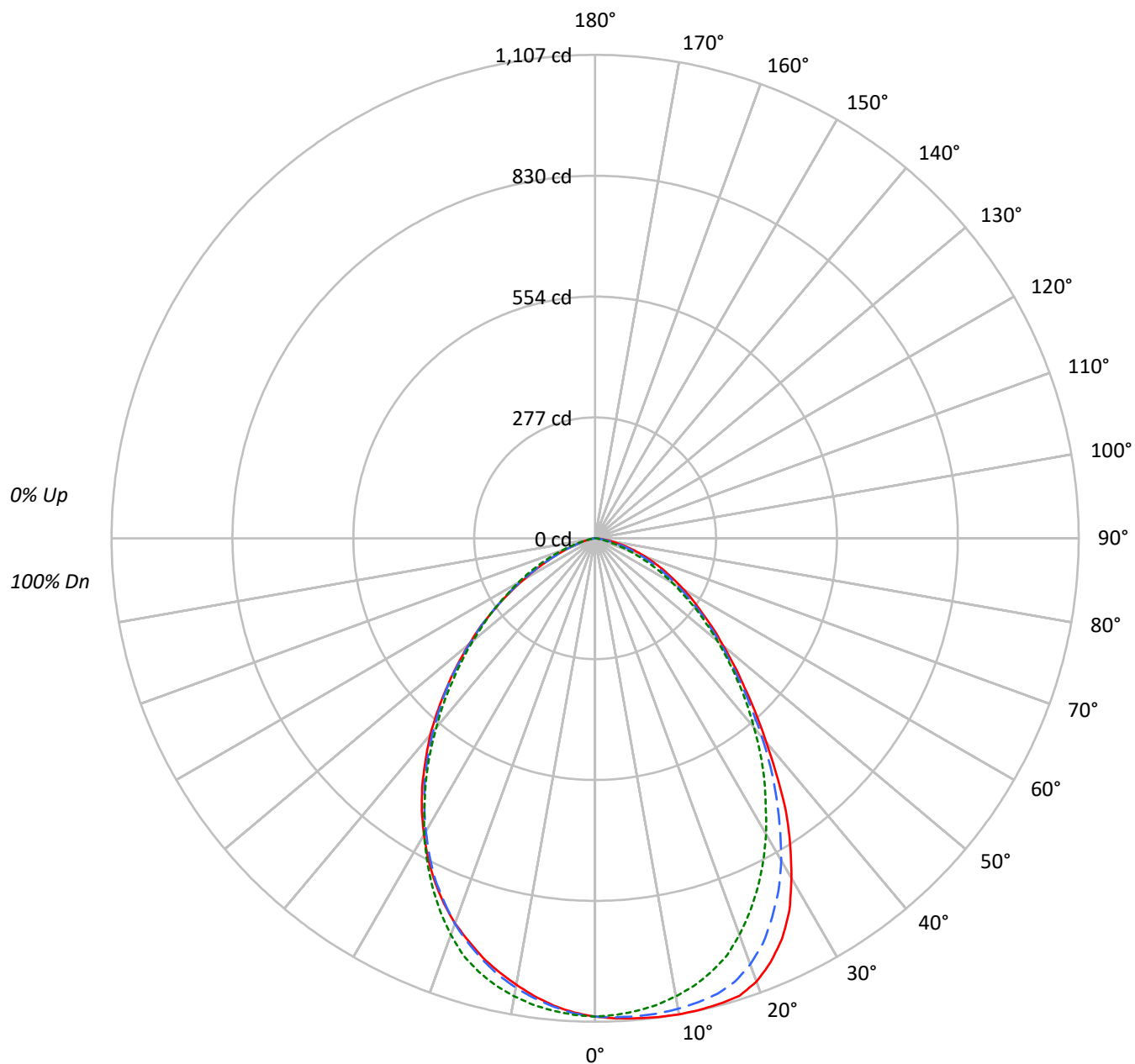
Lumens per Lamp: N/A
Luminaire Lumens: 2064.5 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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°	134574	134574	134574
5°	136074	134003	132547
10°	138084	132870	129502
15°	140338	130749	126424
20°	141236	126306	122671
25°	137180	119491	117647
30°	127489	111047	111118
35°	114117	101234	103379
40°	97700	90756	94059
45°	84108	80025	83013
50°	73106	69646	71768
55°	64342	59930	59373
60°	57250	50001	46070
65°	50232	40058	33314
70°	43140	28305	22522
75°	34983	16424	13196
80°	25045	7146	6580
85°	9444	2960	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	5.0
10°-20°	292.2	14.2
20°-30°	417.3	20.2
30°-40°	436.6	21.1
40°-50°	365.8	17.7
50°-60°	256.0	12.4
60°-70°	139.4	6.8
70°-80°	48.4	2.3
80°-90°	5.6	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°	812.8	39.4
0°-40°	1249.4	60.5
0°-60°	1871.1	90.6
0°-90°	2064.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1095	1095	1095	1095	1095	
5°	1103	1098	1087	1077	1075	105
15°	1103	1080	1028	999	994	312
25°	1012	958	882	864	868	462
35°	761	723	675	680	689	472
45°	484	473	461	476	478	376
55°	300	290	280	280	277	271
65°	173	158	138	116	115	172
75°	74	60	35	28	28	80
85°	7	4	2	2	2	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°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1100.5	1099.2	1099.7	1099.7	1099.7	1099.2	1099.7	1099.2	1099.2	1098.8	1098.0
5°	1103.4	1102.6	1102.6	1102.6	1102.2	1101.8	1101.8	1101.3	1100.5	1100.1	1098.4
7.5°	1105.6	1104.7	1104.7	1104.3	1103.9	1103.4	1103.1	1101.8	1100.5	1099.7	1097.6
10°	1106.9	1105.6	1105.6	1104.7	1103.9	1103.4	1102.6	1101.0	1099.2	1097.2	1094.2
12.5°	1106.0	1104.7	1104.3	1103.4	1101.8	1101.0	1100.1	1098.0	1095.1	1092.1	1088.3
15°	1103.4	1102.6	1101.8	1100.5	1098.4	1097.2	1096.3	1093.0	1089.2	1085.0	1080.3
17.5°	1098.4	1097.2	1095.4	1093.8	1090.8	1089.6	1087.4	1083.2	1077.8	1071.9	1064.7
20°	1080.3	1079.4	1077.8	1074.8	1070.1	1068.5	1065.5	1060.1	1052.9	1045.8	1038.1
22.5°	1050.4	1049.1	1046.6	1044.0	1039.9	1036.9	1034.4	1026.8	1018.8	1011.2	1004.0
25°	1012.0	1010.8	1007.4	1004.0	999.9	994.8	992.2	986.3	978.3	968.7	958.1
27.5°	962.8	958.5	957.3	953.5	947.1	945.5	941.7	934.1	926.5	918.1	909.2
30°	898.7	898.7	896.2	894.5	888.6	886.9	882.6	874.6	870.5	858.6	851.9
32.5°	830.9	830.0	827.9	826.6	823.3	820.4	816.1	811.9	802.6	796.7	787.4
35°	760.9	755.9	756.7	754.2	752.1	748.7	748.3	743.6	735.3	731.9	723.4
37.5°	681.3	679.1	682.2	678.3	676.2	676.7	673.3	670.3	667.0	661.1	659.4
40°	609.2	611.0	610.5	607.1	608.9	606.7	603.3	600.4	598.7	595.0	593.7
42.5°	544.8	542.2	541.4	541.4	541.8	541.8	540.1	538.0	538.0	534.2	530.5
45°	484.1	484.1	483.3	485.8	482.0	482.0	480.7	480.3	478.7	477.8	473.2
47.5°	431.8	431.5	431.0	430.6	430.2	430.2	427.6	425.5	425.1	422.6	420.1
50°	382.5	385.1	384.3	382.2	381.3	381.7	380.1	378.8	378.4	374.2	374.5
52.5°	341.3	340.9	341.7	340.4	338.3	338.7	337.1	335.3	333.7	331.6	329.9
55°	300.4	302.5	301.7	300.4	300.0	299.2	297.9	295.8	295.3	290.7	290.3
57.5°	266.2	265.9	265.1	262.9	262.5	261.2	261.2	259.5	257.0	254.5	252.4
60°	233.0	233.0	231.7	231.3	229.6	229.2	228.8	227.1	224.1	222.1	218.7
62.5°	201.0	201.8	201.0	199.7	198.4	196.8	196.0	194.7	192.1	190.0	187.0
65°	172.8	172.3	171.9	170.2	169.8	168.1	167.7	165.1	162.7	160.9	157.6
67.5°	145.8	144.5	144.5	143.7	142.9	141.6	140.8	138.2	135.2	133.6	130.2
70°	120.1	119.2	119.2	119.2	117.1	115.8	115.5	114.2	109.9	108.3	104.9
72.5°	96.5	96.0	95.7	94.4	93.1	93.1	91.4	88.9	86.8	84.7	82.2
75°	73.7	74.6	73.7	72.0	71.7	70.7	69.6	67.4	65.3	62.7	59.8
77.5°	53.9	53.1	52.3	52.3	51.4	49.7	49.3	47.7	45.1	43.4	40.5
80°	35.4	35.0	34.1	33.3	32.8	32.5	32.0	30.4	27.8	26.6	24.0
82.5°	19.4	19.0	19.0	18.6	17.3	17.3	16.8	15.2	13.9	13.1	11.8
85°	6.7	6.7	6.7	6.3	6.3	6.3	5.9	5.5	5.1	4.6	3.8
87.5°	0.8	0.5	0.8	0.5	0.8	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°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1097.2	1096.3	1095.9	1095.4	1095.1	1094.6	1094.2	1093.3	1093.0	1092.5	1091.7
5°	1097.2	1095.4	1094.6	1093.3	1092.5	1091.7	1090.4	1089.2	1087.9	1086.6	1085.3
7.5°	1095.4	1093.0	1091.2	1088.7	1087.9	1086.6	1084.1	1082.4	1080.3	1077.8	1074.8
10°	1091.2	1088.3	1085.0	1081.6	1080.3	1078.1	1074.8	1071.9	1068.5	1065.1	1062.1
12.5°	1084.5	1079.9	1075.7	1071.1	1068.5	1066.4	1061.8	1057.5	1053.3	1049.5	1044.5
15°	1074.4	1068.9	1063.4	1057.1	1054.1	1051.7	1044.9	1039.9	1033.1	1028.0	1023.0
17.5°	1058.0	1049.5	1042.8	1034.8	1030.6	1027.6	1021.8	1013.7	1007.4	1002.0	996.0
20°	1029.8	1021.8	1012.5	1003.6	998.9	995.2	986.8	978.3	972.0	966.1	959.8
22.5°	992.7	982.6	975.8	964.9	961.0	956.4	946.3	938.8	931.6	925.7	919.7
25°	947.6	938.8	929.5	919.4	914.8	909.2	900.8	892.8	888.2	881.5	874.3
27.5°	895.7	888.6	877.2	868.4	863.7	859.6	851.6	844.4	837.6	833.0	826.3
30°	841.0	832.5	822.5	813.2	810.6	805.6	798.5	792.9	785.8	782.8	779.9
32.5°	780.7	771.1	763.4	757.5	752.5	748.3	744.5	735.6	734.3	726.8	726.0
35°	715.0	710.8	703.6	698.6	694.3	691.4	685.1	680.9	676.2	675.0	672.1
37.5°	653.1	648.0	641.2	636.6	633.7	633.2	628.6	626.1	622.7	621.0	617.7
40°	588.2	586.0	580.2	579.3	574.7	574.3	571.8	568.8	565.9	565.9	566.3
42.5°	528.4	525.8	523.3	520.4	517.8	517.8	516.6	515.8	514.8	513.6	515.8
45°	472.3	468.9	467.3	464.3	465.6	463.0	462.2	462.2	460.9	460.6	463.5
47.5°	420.1	416.3	414.6	413.7	413.7	414.2	410.4	411.6	411.2	412.1	413.4
50°	372.4	369.1	366.5	366.5	367.0	365.3	363.6	364.9	363.6	364.4	367.4
52.5°	328.3	324.9	323.6	323.6	321.1	320.6	321.4	319.8	320.3	320.6	322.3
55°	287.3	285.2	283.2	281.1	281.4	280.6	278.9	278.5	279.3	279.8	281.9
57.5°	250.7	247.8	244.8	244.0	243.1	243.1	241.0	240.6	241.4	239.3	239.3
60°	215.7	214.0	210.2	209.0	209.0	206.9	205.2	206.0	204.0	203.5	204.0
62.5°	183.3	182.0	179.5	176.9	176.1	175.3	173.1	172.3	171.5	169.8	167.3
65°	155.0	152.1	149.1	147.5	146.2	144.1	142.9	141.1	138.6	137.8	135.2
67.5°	126.8	123.8	120.9	119.7	118.4	117.1	115.0	112.9	109.9	106.6	103.7
70°	101.9	98.2	96.5	93.1	92.3	90.6	87.7	85.6	82.6	78.8	75.8
72.5°	77.9	75.4	72.9	69.9	67.8	66.6	64.0	60.6	57.3	55.2	52.3
75°	56.0	54.7	51.4	48.0	47.2	45.5	42.6	40.5	37.9	34.6	32.0
77.5°	37.9	35.4	33.3	30.4	29.5	27.8	26.1	24.0	22.4	20.2	18.6
80°	22.4	20.2	19.0	16.8	16.0	15.2	13.9	12.2	10.9	10.1	9.7
82.5°	10.9	9.3	8.8	7.5	7.2	6.7	5.9	5.5	4.6	4.6	4.6
85°	3.8	2.9	2.9	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	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°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1091.2	1090.8	1090.4	1090.0	1090.0	1089.6	1089.6	1089.2	1089.2	1088.7	1088.7
5°	1083.7	1082.4	1081.6	1080.7	1080.7	1079.4	1078.6	1077.8	1077.3	1077.3	1076.5
7.5°	1073.1	1071.4	1069.8	1068.5	1068.1	1066.0	1064.3	1064.3	1062.6	1061.8	1060.9
10°	1059.2	1056.3	1053.8	1052.5	1050.8	1049.5	1047.4	1046.1	1044.9	1042.8	1042.4
12.5°	1040.2	1038.1	1034.4	1032.7	1031.9	1029.3	1026.0	1024.2	1023.9	1022.1	1020.9
15°	1018.8	1014.1	1010.8	1008.7	1008.7	1004.5	1002.8	1000.2	998.6	997.3	996.9
17.5°	990.9	986.3	982.9	980.0	979.2	975.8	973.3	972.4	970.3	971.2	969.0
20°	955.1	951.4	948.8	945.0	945.0	942.9	942.1	940.0	939.1	938.3	939.1
22.5°	916.8	912.2	907.9	907.6	907.6	904.6	904.2	903.7	902.1	903.3	902.9
25°	871.7	868.4	865.8	865.4	865.4	863.7	862.0	862.9	864.2	863.7	865.0
27.5°	825.0	821.6	820.7	820.4	819.5	819.1	819.9	819.9	821.2	822.8	824.5
30°	774.4	773.5	772.3	771.9	771.1	773.2	774.0	775.3	774.8	777.4	779.1
32.5°	723.9	722.2	721.7	722.6	723.9	723.4	726.0	726.8	727.6	730.6	731.9
35°	672.9	672.4	671.6	671.6	672.1	675.4	675.4	678.3	680.1	680.9	684.2
37.5°	618.1	619.8	620.6	621.9	622.3	623.6	624.4	627.3	629.0	630.8	632.4
40°	567.9	567.1	570.9	568.4	569.2	573.0	574.7	574.3	576.8	579.3	581.0
42.5°	514.5	515.8	516.6	517.4	519.5	519.9	522.0	525.0	525.8	528.8	529.6
45°	462.7	463.0	464.7	466.4	467.6	471.0	471.9	473.2	475.6	475.6	476.9
47.5°	413.7	415.5	415.5	418.0	420.1	419.6	422.6	423.5	423.0	425.1	426.0
50°	367.0	369.5	369.1	370.8	371.6	372.0	374.5	375.5	373.7	375.8	376.3
52.5°	322.3	323.6	325.3	325.7	324.9	327.0	326.1	327.8	327.3	329.1	327.3
55°	281.4	281.1	281.1	281.9	281.1	281.9	282.7	281.1	279.8	281.4	281.1
57.5°	240.6	240.6	239.8	241.0	239.8	238.5	238.1	236.8	235.5	235.5	235.1
60°	202.2	201.4	199.7	199.3	199.3	197.2	196.3	194.7	194.7	193.0	191.3
62.5°	166.4	164.3	163.0	163.0	162.2	160.1	156.3	153.8	152.9	150.4	150.0
65°	132.8	130.6	129.4	126.8	124.8	123.8	120.1	117.1	115.8	113.3	113.8
67.5°	101.9	98.6	94.8	93.1	91.8	88.9	87.7	85.6	84.3	84.3	84.3
70°	73.3	70.4	66.6	65.3	64.5	61.9	60.6	60.3	61.5	61.1	61.5
72.5°	49.3	46.4	44.6	43.8	43.0	41.7	42.6	43.0	42.1	42.6	43.0
75°	29.9	29.1	27.8	27.4	27.4	27.8	27.4	27.4	27.8	27.8	28.2
77.5°	17.3	16.5	16.5	16.0	16.8	16.5	16.5	16.5	16.8	16.8	16.8
80°	9.3	9.3	9.3	9.3	9.7	9.3	9.7	9.7	9.7	9.7	9.7
82.5°	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.6
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.5	0.8	0.8	0.8	0.8	0.8	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: P857680

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1087.9	1087.9	1087.9	1087.1	1087.4	1087.4	1087.1	1087.1
5°	1076.1	1075.7	1074.8	1074.8	1074.0	1074.8	1074.4	1074.8
7.5°	1060.1	1060.1	1058.8	1058.8	1058.4	1058.0	1057.5	1058.0
10°	1041.1	1041.1	1040.2	1039.9	1040.2	1038.6	1038.6	1038.1
12.5°	1020.0	1019.2	1018.3	1018.8	1018.3	1017.1	1016.7	1017.1
15°	995.6	994.3	994.8	993.5	993.5	993.0	994.0	994.0
17.5°	968.7	967.8	966.9	967.4	966.6	966.9	966.6	966.1
20°	938.8	938.3	938.3	936.7	937.0	936.7	937.0	938.3
22.5°	904.2	903.7	904.2	902.9	903.7	903.7	905.0	905.0
25°	866.3	865.8	866.6	867.1	867.6	868.8	867.6	867.9
27.5°	824.1	825.4	826.6	827.1	828.7	827.5	826.6	827.9
30°	781.5	781.5	781.2	782.8	784.1	785.4	783.3	783.3
32.5°	732.7	734.8	734.8	735.3	736.5	736.5	736.5	738.2
35°	686.0	687.1	687.6	686.0	686.8	686.3	689.3	689.3
37.5°	633.7	633.7	634.1	637.1	637.1	635.8	636.6	636.6
40°	583.9	584.4	582.7	583.6	585.7	584.8	585.7	586.5
42.5°	529.6	532.6	530.8	531.8	531.3	531.8	532.1	532.1
45°	477.8	478.7	478.7	479.0	479.9	480.7	478.2	477.8
47.5°	427.2	427.6	428.9	426.8	429.4	426.8	429.4	426.4
50°	376.3	377.9	376.6	377.5	376.3	376.3	375.8	375.5
52.5°	327.8	327.3	327.3	327.0	327.0	327.8	327.0	328.3
55°	279.3	279.8	278.9	278.5	278.1	279.3	278.1	277.2
57.5°	233.4	234.2	232.6	233.4	230.5	231.7	232.1	232.6
60°	190.9	189.6	189.6	188.0	188.0	189.2	187.5	187.5
62.5°	147.8	148.8	147.5	149.1	149.1	150.9	150.0	150.9
65°	113.3	113.8	114.2	114.2	114.2	116.7	115.8	114.6
67.5°	85.6	85.9	86.4	85.9	87.2	86.4	86.4	86.8
70°	61.9	62.4	62.7	62.7	62.4	62.7	62.7	62.7
72.5°	43.0	43.4	43.0	43.4	43.8	43.4	43.4	43.8
75°	28.2	28.2	27.8	27.8	27.8	27.8	28.2	27.8
77.5°	16.5	16.8	16.5	16.8	16.8	16.8	16.8	16.8
80°	9.7	9.7	9.7	9.3	9.7	9.7	9.7	9.3
82.5°	5.1	5.1	4.6	4.6	5.1	5.1	5.1	5.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)