

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: P857693

Luminaire Tested: **LX4C30D010 EX4C309030 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857693
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

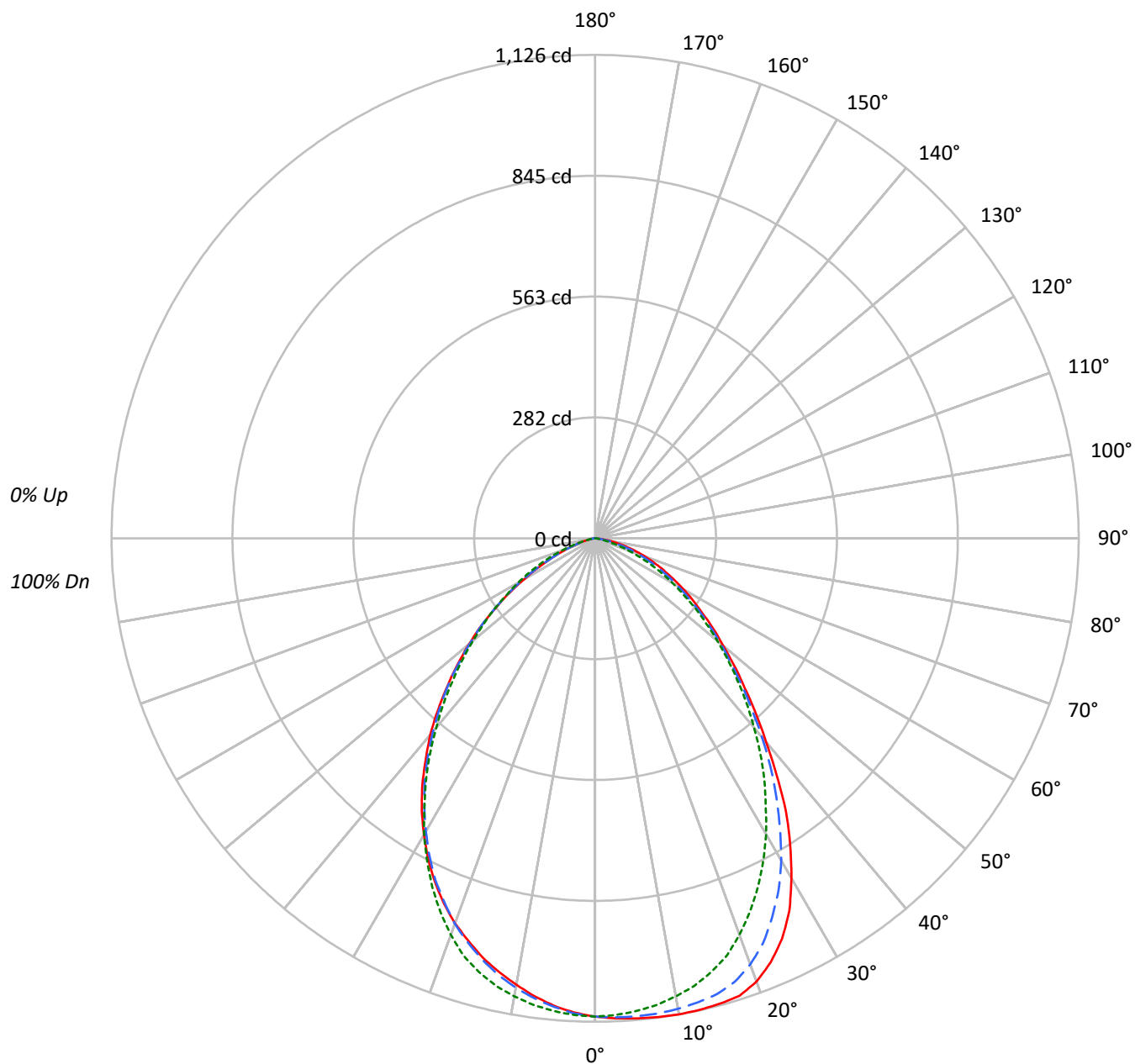
Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	136883	136883	136883
5°	138417	136309	134829
10°	140455	135153	131735
15°	142755	133000	128599
20°	143668	128476	124776
25°	139539	121551	119667
30°	129687	112962	113033
35°	116082	102974	105163
40°	99384	92311	95679
45°	85550	81398	84438
50°	74367	70850	73010
55°	65456	60958	60401
60°	58233	50861	46856
65°	51104	40756	33895
70°	43894	28808	22917
75°	35600	16708	13433
80°	25469	7287	6721
85°	9585	2960	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	5.0
10°-20°	297.3	14.2
20°-30°	424.5	20.2
30°-40°	444.1	21.1
40°-50°	372.1	17.7
50°-60°	260.4	12.4
60°-70°	141.8	6.8
70°-80°	49.2	2.3
80°-90°	5.7	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°	826.8	39.4
0°-40°	1270.8	60.5
0°-60°	1903.3	90.6
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1114	1114	1114	1114	1114	
5°	1122	1117	1105	1096	1093	107
15°	1122	1099	1046	1016	1011	317
25°	1029	975	897	879	883	470
35°	774	736	687	692	701	480
45°	492	481	468	484	486	383
55°	306	295	285	285	282	276
65°	176	160	140	118	117	175
75°	75	61	35	28	28	81
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°	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1119.4	1118.1	1118.6	1118.6	1118.6	1118.1	1118.6	1118.1	1118.1	1117.7	1116.9
5°	1122.4	1121.6	1121.6	1121.6	1121.2	1120.8	1120.8	1120.2	1119.4	1119.0	1117.3
7.5°	1124.6	1123.7	1123.7	1123.3	1122.9	1122.4	1122.1	1120.8	1119.4	1118.6	1116.5
10°	1125.9	1124.6	1124.6	1123.7	1122.9	1122.4	1121.6	1119.9	1118.1	1116.1	1113.0
12.5°	1125.0	1123.7	1123.3	1122.4	1120.8	1119.9	1119.0	1116.9	1113.9	1110.9	1107.0
15°	1122.4	1121.6	1120.8	1119.4	1117.3	1116.1	1115.2	1111.8	1107.9	1103.7	1098.9
17.5°	1117.3	1116.1	1114.2	1112.6	1109.6	1108.3	1106.1	1101.8	1096.3	1090.3	1083.0
20°	1098.9	1098.0	1096.3	1093.3	1088.5	1086.9	1083.8	1078.3	1071.0	1063.8	1056.0
22.5°	1068.5	1067.1	1064.6	1062.0	1057.8	1054.7	1052.2	1044.5	1036.3	1028.6	1021.3
25°	1029.4	1028.2	1024.7	1021.3	1017.1	1011.9	1009.3	1003.3	995.1	985.4	974.6
27.5°	979.4	975.0	973.8	969.9	963.4	961.8	957.9	950.2	942.4	933.9	924.8
30°	914.2	914.2	911.6	909.9	903.9	902.2	897.8	889.6	885.5	873.4	866.6
32.5°	845.2	844.3	842.1	840.8	837.5	834.5	830.1	825.9	816.4	810.4	800.9
35°	774.0	768.9	769.7	767.2	765.0	761.6	761.2	756.4	747.9	744.5	735.8
37.5°	693.0	690.8	693.9	690.0	687.8	688.3	684.9	681.8	678.5	672.5	670.7
40°	619.7	621.5	621.0	617.5	619.4	617.1	613.7	610.7	609.0	605.2	603.9
42.5°	554.2	551.5	550.7	550.7	551.1	551.1	549.4	547.3	547.3	543.4	539.6
45°	492.4	492.4	491.6	494.2	490.3	490.3	489.0	488.6	486.9	486.0	481.3
47.5°	439.2	438.9	438.4	438.0	437.6	437.6	435.0	432.8	432.4	429.9	427.3
50°	389.1	391.7	390.9	388.8	387.9	388.3	386.6	385.3	384.9	380.6	380.9
52.5°	347.2	346.8	347.6	346.3	344.1	344.5	342.9	341.1	339.4	337.3	335.6
55°	305.6	307.7	306.9	305.6	305.2	304.3	303.0	300.9	300.4	295.7	295.3
57.5°	270.8	270.5	269.7	267.4	267.0	265.7	265.7	264.0	261.4	258.9	256.7
60°	237.0	237.0	235.7	235.3	233.5	233.1	232.7	231.0	228.0	225.9	222.5
62.5°	204.5	205.3	204.5	203.1	201.8	200.2	199.4	198.0	195.4	193.3	190.2
65°	175.8	175.3	174.9	173.1	172.7	171.0	170.6	167.9	165.5	163.7	160.3
67.5°	148.3	147.0	147.0	146.2	145.4	144.0	143.2	140.6	137.5	135.9	132.4
70°	122.2	121.3	121.3	121.3	119.1	117.8	117.5	116.2	111.8	110.2	106.7
72.5°	98.2	97.7	97.3	96.0	94.7	94.7	93.0	90.4	88.3	86.2	83.6
75°	75.0	75.9	75.0	73.2	72.9	71.9	70.8	68.6	66.4	63.8	60.8
77.5°	54.8	54.0	53.2	53.2	52.3	50.6	50.1	48.5	45.9	44.1	41.2
80°	36.0	35.6	34.7	33.9	33.4	33.1	32.6	30.9	28.3	27.1	24.4
82.5°	19.7	19.3	19.3	18.9	17.6	17.6	17.1	15.5	14.1	13.3	12.0
85°	6.8	6.8	6.8	6.4	6.4	6.4	6.0	5.6	5.2	4.7	3.9
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°	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1116.1	1115.2	1114.7	1114.2	1113.9	1113.4	1113.0	1112.1	1111.8	1111.3	1110.5
5°	1116.1	1114.2	1113.4	1112.1	1111.3	1110.5	1109.2	1107.9	1106.6	1105.3	1104.0
7.5°	1114.2	1111.8	1110.0	1107.4	1106.6	1105.3	1102.7	1101.0	1098.9	1096.3	1093.3
10°	1110.0	1107.0	1103.7	1100.2	1098.9	1096.6	1093.3	1090.3	1086.9	1083.4	1080.4
12.5°	1103.2	1098.5	1094.2	1089.5	1086.9	1084.7	1080.1	1075.7	1071.4	1067.6	1062.5
15°	1092.9	1087.3	1081.7	1075.3	1072.2	1069.8	1062.9	1057.8	1050.9	1045.7	1040.6
17.5°	1076.2	1067.6	1060.7	1052.6	1048.3	1045.3	1039.4	1031.1	1024.7	1019.2	1013.1
20°	1047.5	1039.4	1029.9	1020.9	1016.1	1012.3	1003.8	995.1	988.7	982.7	976.3
22.5°	1009.8	999.5	992.6	981.5	977.5	972.9	962.6	954.9	947.6	941.6	935.5
25°	963.9	954.9	945.5	935.2	930.5	924.8	916.3	908.2	903.5	896.7	889.3
27.5°	911.1	903.9	892.3	883.3	878.6	874.4	866.2	858.9	852.0	847.3	840.5
30°	855.5	846.8	836.6	827.2	824.5	819.5	812.2	806.5	799.3	796.3	793.3
32.5°	794.1	784.4	776.5	770.5	765.4	761.2	757.3	748.3	746.9	739.3	738.5
35°	727.3	723.0	715.7	710.6	706.2	703.3	696.9	692.6	687.8	686.6	683.7
37.5°	664.3	659.1	652.2	647.5	644.6	644.1	639.4	636.9	633.4	631.7	628.3
40°	598.3	596.1	590.2	589.3	584.6	584.2	581.6	578.6	575.6	575.6	576.0
42.5°	537.5	534.8	532.3	529.4	526.7	526.7	525.5	524.7	523.7	522.4	524.7
45°	480.4	477.0	475.3	472.3	473.6	471.0	470.1	470.1	468.8	468.5	471.5
47.5°	427.3	423.5	421.7	420.8	420.8	421.3	417.5	418.7	418.3	419.2	420.5
50°	378.8	375.4	372.8	372.8	373.3	371.6	369.9	371.2	369.9	370.7	373.7
52.5°	333.9	330.5	329.2	329.2	326.6	326.1	326.9	325.3	325.8	326.1	327.8
55°	292.2	290.1	288.1	285.9	286.2	285.4	283.7	283.3	284.1	284.6	286.7
57.5°	255.0	252.1	249.0	248.2	247.3	247.3	245.1	244.7	245.6	243.4	243.4
60°	219.4	217.7	213.8	212.6	212.6	210.5	208.7	209.5	207.5	207.0	207.5
62.5°	186.5	185.1	182.6	179.9	179.1	178.3	176.1	175.3	174.4	172.7	170.2
65°	157.7	154.7	151.7	150.0	148.7	146.6	145.4	143.5	141.0	140.2	137.5
67.5°	129.0	125.9	123.0	121.8	120.4	119.1	117.0	114.8	111.8	108.4	105.5
70°	103.7	99.9	98.2	94.7	93.9	92.2	89.2	87.1	84.0	80.2	77.1
72.5°	79.2	76.7	74.2	71.1	69.0	67.7	65.1	61.6	58.3	56.1	53.2
75°	57.0	55.6	52.3	48.8	48.0	46.3	43.3	41.2	38.6	35.2	32.6
77.5°	38.6	36.0	33.9	30.9	30.0	28.3	26.5	24.4	22.8	20.5	18.9
80°	22.8	20.5	19.3	17.1	16.3	15.5	14.1	12.4	11.1	10.3	9.9
82.5°	11.1	9.5	9.0	7.6	7.3	6.8	6.0	5.6	4.7	4.7	4.7
85°	3.9	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°	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1110.0	1109.6	1109.2	1108.7	1108.7	1108.3	1108.3	1107.9	1107.9	1107.4	1107.4
5°	1102.3	1101.0	1100.2	1099.3	1099.3	1098.0	1097.2	1096.3	1095.8	1095.8	1095.0
7.5°	1091.6	1089.8	1088.2	1086.9	1086.5	1084.3	1082.6	1082.6	1080.9	1080.1	1079.1
10°	1077.4	1074.5	1071.9	1070.6	1068.9	1067.6	1065.4	1064.1	1062.9	1060.7	1060.3
12.5°	1058.1	1056.0	1052.2	1050.5	1049.6	1047.0	1043.6	1041.8	1041.5	1039.7	1038.5
15°	1036.3	1031.5	1028.2	1026.0	1026.0	1021.8	1020.0	1017.4	1015.8	1014.5	1014.0
17.5°	1007.9	1003.3	999.8	996.9	996.0	992.6	990.0	989.1	987.0	987.9	985.7
20°	971.5	967.8	965.1	961.3	961.3	959.1	958.3	956.2	955.3	954.4	955.3
22.5°	932.6	927.9	923.5	923.2	923.2	920.2	919.8	919.2	917.6	918.8	918.4
25°	886.7	883.3	880.7	880.3	880.3	878.6	876.8	877.7	879.1	878.6	879.9
27.5°	839.2	835.7	834.8	834.5	833.6	833.2	834.0	834.0	835.3	837.0	838.7
30°	787.7	786.8	785.6	785.2	784.4	786.5	787.3	788.6	788.1	790.8	792.5
32.5°	736.4	734.6	734.1	735.0	736.4	735.8	738.5	739.3	740.1	743.2	744.5
35°	684.5	684.0	683.2	683.2	683.7	687.0	687.0	690.0	691.8	692.6	696.0
37.5°	628.7	630.5	631.3	632.6	633.0	634.3	635.1	638.1	639.8	641.6	643.3
40°	577.7	576.9	580.7	578.2	579.0	582.9	584.6	584.2	586.7	589.3	591.0
42.5°	523.3	524.7	525.5	526.3	528.4	528.8	531.0	534.0	534.8	537.9	538.7
45°	470.7	471.0	472.7	474.4	475.6	479.1	480.0	481.3	483.8	483.8	485.1
47.5°	420.8	422.6	422.6	425.2	427.3	426.8	429.9	430.8	430.3	432.4	433.3
50°	373.3	375.9	375.4	377.2	378.0	378.4	380.9	382.0	380.1	382.3	382.8
52.5°	327.8	329.2	330.9	331.3	330.5	332.6	331.7	333.4	332.9	334.8	332.9
55°	286.2	285.9	285.9	286.7	285.9	286.7	287.6	285.9	284.6	286.2	285.9
57.5°	244.7	244.7	243.9	245.1	243.9	242.6	242.2	240.9	239.6	239.6	239.1
60°	205.7	204.9	203.1	202.7	202.7	200.6	199.7	198.0	198.0	196.3	194.6
62.5°	169.3	167.1	165.8	165.8	165.0	162.9	159.0	156.4	155.5	153.0	152.6
65°	135.1	132.8	131.6	129.0	126.9	125.9	122.2	119.1	117.8	115.2	115.8
67.5°	103.7	100.3	96.4	94.7	93.4	90.4	89.2	87.1	85.7	85.7	85.7
70°	74.6	71.6	67.7	66.4	65.6	63.0	61.6	61.3	62.6	62.2	62.6
72.5°	50.1	47.2	45.4	44.6	43.7	42.4	43.3	43.7	42.8	43.3	43.7
75°	30.4	29.6	28.3	27.9	27.9	28.3	27.9	27.9	28.3	28.3	28.7
77.5°	17.6	16.8	16.8	16.3	17.1	16.8	16.8	16.8	17.1	17.1	17.1
80°	9.5	9.5	9.5	9.5	9.9	9.5	9.9	9.9	9.9	9.9	9.9
82.5°	4.7	4.7	4.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.7
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: P857693

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1106.6	1106.6	1106.6	1105.8	1106.1	1106.1	1105.8	1105.8
5°	1094.6	1094.2	1093.3	1093.3	1092.5	1093.3	1092.9	1093.3
7.5°	1078.3	1078.3	1077.0	1077.0	1076.6	1076.2	1075.7	1076.2
10°	1059.0	1059.0	1058.1	1057.8	1058.1	1056.5	1056.5	1056.0
12.5°	1037.5	1036.7	1035.8	1036.3	1035.8	1034.6	1034.2	1034.6
15°	1012.7	1011.4	1011.9	1010.6	1010.6	1010.1	1011.1	1011.1
17.5°	985.4	984.4	983.5	984.0	983.2	983.5	983.2	982.7
20°	954.9	954.4	954.4	952.8	953.1	952.8	953.1	954.4
22.5°	919.8	919.2	919.8	918.4	919.2	919.2	920.6	920.6
25°	881.2	880.7	881.5	882.0	882.5	883.7	882.5	882.8
27.5°	838.3	839.6	840.8	841.3	843.0	841.7	840.8	842.1
30°	794.9	794.9	794.6	796.3	797.6	798.9	796.8	796.8
32.5°	745.3	747.4	747.4	747.9	749.2	749.2	749.2	750.9
35°	697.8	698.9	699.4	697.8	698.6	698.1	701.2	701.2
37.5°	644.6	644.6	645.0	648.1	648.1	646.7	647.5	647.5
40°	593.9	594.5	592.7	593.6	595.8	594.9	595.8	596.6
42.5°	538.7	541.8	539.9	540.9	540.4	540.9	541.3	541.3
45°	486.0	486.9	486.9	487.2	488.2	489.0	486.4	486.0
47.5°	434.5	435.0	436.3	434.1	436.8	434.1	436.8	433.7
50°	382.8	384.4	383.1	384.0	382.8	382.8	382.3	382.0
52.5°	333.4	332.9	332.9	332.6	332.6	333.4	332.6	333.9
55°	284.1	284.6	283.7	283.3	282.9	284.1	282.9	282.0
57.5°	237.4	238.2	236.6	237.4	234.5	235.7	236.1	236.6
60°	194.2	192.9	192.9	191.2	191.2	192.5	190.7	190.7
62.5°	150.3	151.4	150.0	151.7	151.7	153.5	152.6	153.5
65°	115.2	115.8	116.2	116.2	116.2	118.7	117.8	116.6
67.5°	87.1	87.4	87.9	87.4	88.7	87.9	87.9	88.3
70°	63.0	63.5	63.8	63.8	63.5	63.8	63.8	63.8
72.5°	43.7	44.1	43.7	44.1	44.6	44.1	44.1	44.6
75°	28.7	28.7	28.3	28.3	28.3	28.3	28.7	28.3
77.5°	16.8	17.1	16.8	17.1	17.1	17.1	17.1	17.1
80°	9.9	9.9	9.9	9.5	9.9	9.9	9.9	9.5
82.5°	5.2	5.2	4.7	4.7	5.2	5.2	5.2	5.2
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)