

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: P857692

Luminaire Tested: **LX4C30D010 EX4C309030 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857692
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 EX4C309030 4LBLWW*
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

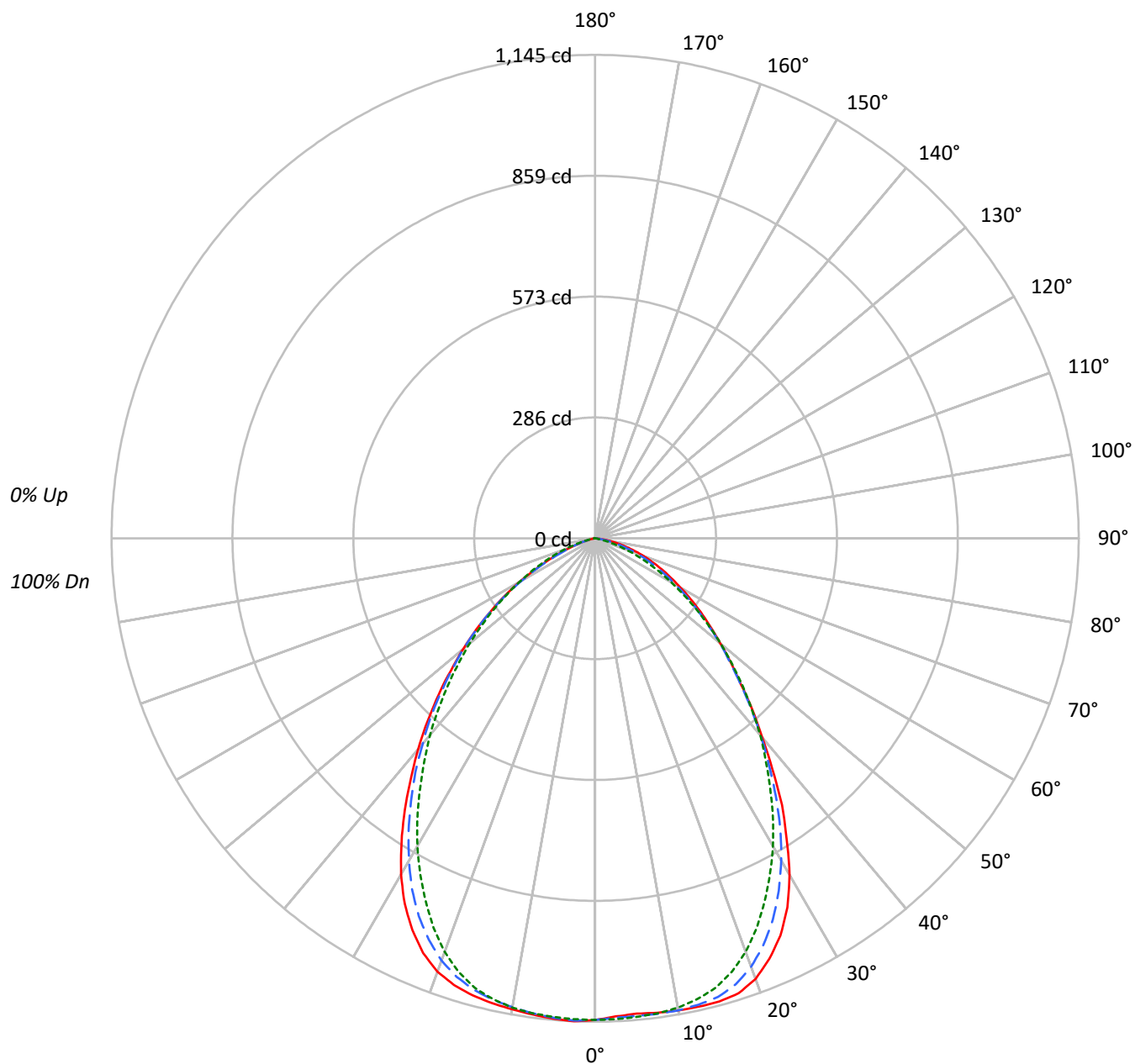
Lumens per Lamp: N/A
Luminaire Lumens: 2187.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	140151	140151	140151
5°	139355	140304	140835
10°	141665	140816	141340
15°	144434	140186	142526
20°	145171	136255	142766
25°	140705	128681	138780
30°	130595	119403	130340
35°	115632	108328	117821
40°	98582	97555	104484
45°	84681	85654	91023
50°	73908	74119	78018
55°	65327	62564	64685
60°	57250	51033	50837
65°	50668	39622	35203
70°	43212	27227	20941
75°	34936	14667	9541
80°	23984	3679	2476
85°	7330	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	5.0
10°-20°	313.8	14.4
20°-30°	453.5	20.7
30°-40°	468.8	21.4
40°-50°	387.4	17.7
50°-60°	267.3	12.2
60°-70°	140.0	6.4
70°-80°	44.1	2.0
80°-90°	3.7	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°	875.8	40.0
0°-40°	1344.6	61.5
0°-60°	1999.3	91.4
0°-90°	2187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1141	1141	1141	1141	1141	
5°	1130	1136	1138	1140	1142	108
15°	1136	1125	1102	1107	1121	320
25°	1038	996	949	987	1024	474
35°	771	745	722	760	786	479
45°	487	485	493	516	524	380
55°	305	296	292	300	302	274
65°	174	158	136	113	121	173
75°	74	58	31	21	20	79
85°	5	2	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°	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1133.5	1134.0	1134.0	1134.8	1134.8	1134.8	1135.2	1135.2	1135.6	1136.0	1136.4
5°	1130.0	1130.0	1130.8	1131.3	1132.1	1132.7	1133.5	1134.0	1134.8	1135.2	1135.6
7.5°	1133.5	1133.5	1134.0	1134.3	1134.3	1134.8	1134.8	1135.2	1135.6	1136.0	1136.0
10°	1135.6	1135.6	1135.6	1135.6	1136.0	1136.0	1136.0	1135.6	1135.6	1135.6	1135.2
12.5°	1136.4	1136.4	1136.0	1135.6	1136.0	1135.6	1135.6	1134.3	1133.5	1132.7	1131.3
15°	1135.6	1135.6	1135.2	1134.8	1134.3	1133.5	1133.0	1130.8	1129.2	1126.7	1124.8
17.5°	1130.0	1129.2	1128.3	1127.5	1125.8	1124.5	1123.6	1119.7	1116.7	1112.5	1107.7
20°	1110.4	1109.6	1108.2	1106.0	1103.9	1102.2	1099.6	1094.1	1091.0	1084.6	1080.0
22.5°	1078.1	1077.3	1077.8	1074.0	1069.7	1067.0	1065.3	1060.6	1055.5	1047.4	1042.2
25°	1038.0	1035.4	1035.4	1029.4	1027.3	1025.4	1023.4	1017.8	1010.1	1002.9	996.0
27.5°	985.7	982.2	980.6	979.7	974.6	970.7	967.7	963.4	957.0	950.5	941.1
30°	920.6	920.1	917.9	914.2	910.3	908.6	905.1	897.8	891.9	887.2	881.2
32.5°	844.0	843.5	843.5	843.5	840.9	840.5	835.3	831.5	826.7	819.5	815.6
35°	771.0	770.6	771.0	764.6	762.9	761.7	761.2	758.6	752.2	748.8	745.4
37.5°	688.8	690.1	689.3	687.5	689.7	685.9	688.8	683.3	680.7	679.8	675.9
40°	614.7	618.2	614.7	615.1	617.2	613.5	613.5	612.6	610.8	610.0	609.1
42.5°	551.3	546.9	549.6	547.5	549.6	548.3	546.1	547.5	548.0	546.1	545.7
45°	487.4	488.4	489.2	488.0	488.0	486.6	490.1	488.0	488.0	488.4	485.3
47.5°	435.7	434.4	435.3	434.4	434.8	433.9	434.8	435.3	434.4	434.4	431.8
50°	386.7	385.9	389.0	386.4	386.4	385.9	386.4	385.5	384.3	384.3	385.1
52.5°	344.4	342.7	342.2	344.4	341.4	341.4	341.9	341.0	339.2	338.4	336.3
55°	305.0	304.7	305.0	303.3	302.4	302.4	300.3	299.5	299.0	296.8	295.5
57.5°	268.1	266.9	267.3	266.9	265.1	264.8	263.0	263.0	261.3	259.6	257.5
60°	233.0	233.0	234.4	232.6	231.3	230.5	229.7	228.7	225.7	222.8	220.2
62.5°	201.8	202.2	201.8	200.5	199.6	198.8	197.9	195.3	192.8	191.1	188.1
65°	174.3	173.8	172.6	171.8	169.7	169.7	167.8	166.7	163.7	161.0	158.1
67.5°	146.1	145.3	145.3	145.3	142.6	142.2	141.4	138.7	136.3	132.7	130.3
70°	120.3	121.1	119.9	118.7	117.4	117.0	115.7	113.0	110.1	106.7	104.6
72.5°	95.9	96.8	95.5	95.1	92.6	91.8	91.2	89.1	85.6	83.6	80.2
75°	73.6	74.2	73.2	72.4	70.7	70.3	68.2	66.4	64.3	60.8	57.9
77.5°	53.2	52.2	52.2	50.6	48.8	48.8	48.4	45.9	42.8	40.3	37.7
80°	33.9	33.4	32.1	31.2	29.9	29.6	29.1	27.0	24.8	23.1	21.5
82.5°	17.1	16.8	16.3	15.8	15.0	14.1	14.6	12.8	12.0	10.3	9.0
85°	5.2	5.6	5.6	5.2	4.7	4.7	4.7	4.3	3.5	2.9	2.5
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°	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1136.9	1137.3	1137.7	1138.1	1138.1	1138.7	1139.0	1139.5	1140.0	1140.0	1140.3
5°	1136.0	1136.9	1136.9	1137.3	1137.3	1137.3	1137.7	1137.7	1137.7	1137.7	1138.1
7.5°	1136.4	1136.4	1136.4	1136.0	1136.0	1135.6	1135.6	1135.6	1134.8	1134.8	1134.8
10°	1134.3	1134.0	1133.5	1132.7	1132.1	1131.7	1130.8	1130.0	1129.2	1128.8	1127.9
12.5°	1130.0	1128.3	1126.7	1124.8	1124.0	1123.6	1121.9	1120.6	1119.3	1118.0	1117.2
15°	1121.5	1118.9	1115.9	1112.5	1111.6	1110.7	1107.7	1105.2	1103.6	1102.2	1100.1
17.5°	1104.4	1099.2	1095.7	1090.6	1088.5	1087.6	1082.9	1080.3	1077.3	1076.5	1074.8
20°	1074.0	1069.2	1062.8	1058.1	1055.5	1052.9	1049.0	1045.7	1042.2	1042.2	1040.1
22.5°	1035.8	1029.8	1021.7	1015.7	1015.3	1010.1	1006.6	1002.9	1001.5	999.0	999.0
25°	987.9	982.7	973.8	968.6	965.9	964.6	959.1	953.9	951.5	949.3	951.0
27.5°	934.7	927.1	920.1	913.8	911.6	909.0	903.8	901.7	897.0	896.7	896.2
30°	873.9	866.2	859.2	856.3	852.1	849.9	846.0	843.5	841.7	841.7	840.9
32.5°	810.1	803.2	799.7	793.3	791.3	788.2	785.6	783.1	784.0	783.1	783.4
35°	741.0	739.4	732.9	729.1	729.1	728.6	724.3	722.6	721.8	722.3	724.3
37.5°	675.5	670.4	666.2	663.5	665.7	663.1	662.7	662.7	665.2	663.5	667.0
40°	605.7	605.3	603.6	604.4	604.8	601.9	602.7	603.1	604.8	608.3	608.8
42.5°	544.9	544.5	544.5	544.5	543.6	541.9	543.6	546.6	546.1	548.8	550.9
45°	486.1	485.3	487.1	485.8	488.4	489.2	488.0	488.8	491.3	493.0	496.5
47.5°	432.6	432.6	433.1	433.9	431.3	433.4	434.4	436.1	437.4	438.2	439.9
50°	383.0	383.0	382.1	382.1	382.1	383.4	381.8	383.8	384.3	387.8	389.8
52.5°	337.1	335.1	336.3	335.4	333.7	332.8	333.7	334.0	336.7	337.5	340.0
55°	293.5	293.5	290.0	289.2	290.5	290.0	289.5	289.5	290.8	292.1	294.3
57.5°	254.9	252.3	249.7	249.3	248.0	248.5	248.5	248.0	247.2	247.6	248.0
60°	218.5	216.8	212.9	212.9	212.4	212.1	210.0	209.4	207.3	207.7	206.1
62.5°	185.0	184.2	179.0	177.3	177.3	176.1	173.8	173.5	170.5	170.5	168.9
65°	155.0	152.6	149.5	146.5	146.5	144.7	143.4	139.7	137.4	136.3	133.7
67.5°	127.7	123.8	120.8	118.2	116.5	116.1	113.0	110.6	107.0	104.9	101.1
70°	101.1	98.1	95.1	92.6	90.7	89.1	86.1	82.3	79.6	75.8	73.2
72.5°	76.3	73.6	71.1	67.6	65.5	64.3	61.3	57.9	53.5	51.0	47.5
75°	54.8	51.9	48.4	45.4	44.0	42.8	39.4	36.8	33.9	30.9	27.5
77.5°	35.6	32.1	29.6	26.1	25.7	24.8	21.5	18.8	16.8	15.0	12.8
80°	18.8	17.1	15.0	12.8	12.0	10.7	9.0	7.6	6.4	5.2	4.3
82.5°	8.1	6.8	5.6	4.7	4.3	3.9	2.9	2.5	2.1	2.1	1.7
85°	2.1	1.7	1.7	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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°	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1140.8	1141.1	1141.6	1141.6	1142.0	1142.4	1142.4	1142.9	1143.3	1143.7	1143.7
5°	1138.7	1138.7	1138.7	1139.0	1139.0	1139.0	1139.0	1140.0	1140.0	1140.3	1140.8
7.5°	1134.3	1134.3	1134.3	1134.3	1134.0	1134.3	1134.0	1134.0	1134.8	1135.2	1135.6
10°	1127.5	1127.1	1127.1	1126.7	1126.7	1126.7	1127.1	1127.5	1127.9	1128.3	1129.6
12.5°	1116.7	1116.4	1116.4	1115.9	1115.9	1116.4	1116.7	1117.7	1119.3	1120.1	1121.9
15°	1099.6	1099.2	1099.6	1100.1	1100.9	1102.2	1103.6	1104.8	1107.3	1109.6	1111.6
17.5°	1074.8	1075.2	1075.6	1076.5	1077.8	1079.5	1082.9	1086.3	1089.3	1092.8	1096.2
20°	1040.5	1042.2	1042.7	1045.7	1046.5	1050.4	1054.2	1059.3	1064.0	1068.4	1073.1
22.5°	999.4	1000.7	1002.3	1005.8	1007.9	1013.1	1017.8	1023.8	1028.9	1034.6	1041.4
25°	952.7	953.1	958.3	958.3	963.4	967.7	973.3	979.7	987.4	994.7	999.4
27.5°	899.6	901.7	905.6	907.2	911.1	917.9	922.7	930.4	938.2	944.6	949.7
30°	844.0	845.6	852.1	852.9	855.9	861.9	868.3	875.6	881.5	888.8	893.6
32.5°	785.2	790.0	793.7	796.8	797.6	806.5	810.1	815.2	822.0	829.3	834.0
35°	728.2	730.5	735.9	737.6	740.2	745.4	752.2	756.5	759.8	764.6	770.2
37.5°	667.8	674.3	675.5	680.7	681.5	686.2	689.7	694.8	699.0	703.4	704.2
40°	611.7	613.8	618.6	619.9	620.7	627.1	631.4	632.7	634.8	638.7	643.9
42.5°	554.8	556.9	562.1	560.8	564.5	567.6	569.7	574.9	577.1	578.4	578.4
45°	498.6	499.4	502.9	504.6	506.8	508.4	512.4	514.9	515.7	519.6	520.9
47.5°	445.1	445.9	448.6	451.5	450.6	452.8	457.0	458.4	458.8	461.4	462.6
50°	392.4	394.6	397.9	397.1	399.7	400.9	404.8	405.7	405.7	406.1	406.5
52.5°	343.2	344.8	345.6	346.6	347.9	350.0	351.6	350.8	352.6	354.3	353.0
55°	294.3	295.5	297.7	298.5	298.5	299.0	298.1	302.0	300.3	299.9	300.3
57.5°	249.7	248.0	247.6	249.7	250.6	250.1	248.8	250.6	250.6	249.7	248.5
60°	206.5	205.3	204.8	205.3	203.4	202.2	203.0	202.2	200.1	199.3	199.6
62.5°	167.0	165.7	162.3	162.3	161.5	161.0	157.7	158.1	156.3	153.8	154.6
65°	130.6	127.3	125.5	125.1	122.2	119.5	118.7	115.7	113.0	112.7	113.0
67.5°	98.1	94.2	91.2	89.9	88.3	86.1	83.1	80.6	81.4	81.0	82.6
70°	68.2	65.5	62.6	60.3	61.3	58.7	57.0	57.0	57.4	57.9	58.7
72.5°	45.4	42.0	40.7	39.4	38.6	36.8	37.7	37.7	37.2	37.7	36.8
75°	25.7	24.0	22.8	22.3	21.5	21.5	21.5	21.5	21.0	20.5	20.5
77.5°	11.6	10.7	10.3	9.9	9.9	9.9	9.5	9.0	9.0	9.0	8.6
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	1.7	1.7	2.1	2.1	2.1	1.7	2.1	2.1	1.7	1.7	2.1
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857692

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1144.1	1144.7	1144.7	1144.7	1145.1	1145.1	1145.1	1145.1
5°	1141.1	1141.6	1141.6	1141.6	1142.0	1142.0	1142.0	1142.0
7.5°	1136.0	1136.4	1136.4	1136.9	1136.9	1137.3	1137.3	1137.7
10°	1130.0	1130.8	1131.3	1131.7	1132.1	1132.7	1132.7	1133.0
12.5°	1123.6	1124.5	1124.8	1125.8	1126.7	1127.1	1127.5	1127.9
15°	1114.2	1115.9	1116.7	1117.2	1118.9	1119.7	1120.1	1120.6
17.5°	1099.2	1102.5	1103.9	1104.8	1106.5	1108.2	1109.6	1109.9
20°	1077.8	1081.6	1083.3	1085.5	1088.1	1090.2	1091.0	1092.0
22.5°	1047.7	1052.1	1054.6	1057.2	1059.3	1061.5	1065.0	1063.7
25°	1005.0	1012.3	1015.3	1016.5	1021.3	1023.8	1025.4	1023.8
27.5°	957.0	961.3	963.8	966.8	970.3	972.7	973.8	976.2
30°	899.1	906.4	906.0	909.0	913.2	915.9	916.7	918.8
32.5°	839.2	842.6	845.2	844.8	846.4	851.1	849.5	853.3
35°	775.3	775.8	780.1	779.7	783.1	783.1	783.1	785.6
37.5°	707.2	712.3	710.2	715.3	713.7	715.0	715.0	715.8
40°	645.1	646.8	646.8	648.6	649.8	648.6	649.4	651.5
42.5°	580.8	582.6	583.1	582.1	583.4	587.3	584.3	586.8
45°	520.9	522.2	523.9	522.5	524.7	523.5	524.7	523.9
47.5°	464.4	463.8	463.5	466.9	463.8	464.4	466.1	463.0
50°	406.5	409.0	407.4	408.7	409.5	409.5	408.2	408.2
52.5°	355.1	354.7	353.4	354.7	353.9	354.3	355.1	354.3
55°	302.0	303.6	302.8	302.4	302.8	302.8	305.5	302.0
57.5°	249.7	248.8	250.1	253.2	250.1	252.3	253.6	254.0
60°	200.1	200.1	202.6	201.3	203.9	206.1	207.7	206.9
62.5°	152.6	154.6	155.5	155.9	158.5	160.2	160.2	159.7
65°	113.0	116.1	116.1	117.8	118.7	118.7	119.5	121.1
67.5°	83.6	83.6	83.9	84.8	84.4	84.4	85.2	85.6
70°	58.3	57.4	58.7	58.3	58.3	57.9	58.3	58.3
72.5°	36.8	36.8	37.2	36.8	36.0	36.4	36.4	37.2
75°	19.7	20.5	19.7	19.7	20.1	19.3	19.7	20.1
77.5°	8.1	8.1	8.1	8.1	8.1	7.6	7.6	7.6
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.5	3.5
82.5°	1.7	2.1	1.7	2.1	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	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)