

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: P857553

Luminaire Tested: **LX4C30D010 EX4C309035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857553
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 EX4C309035 4LBLWW*
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

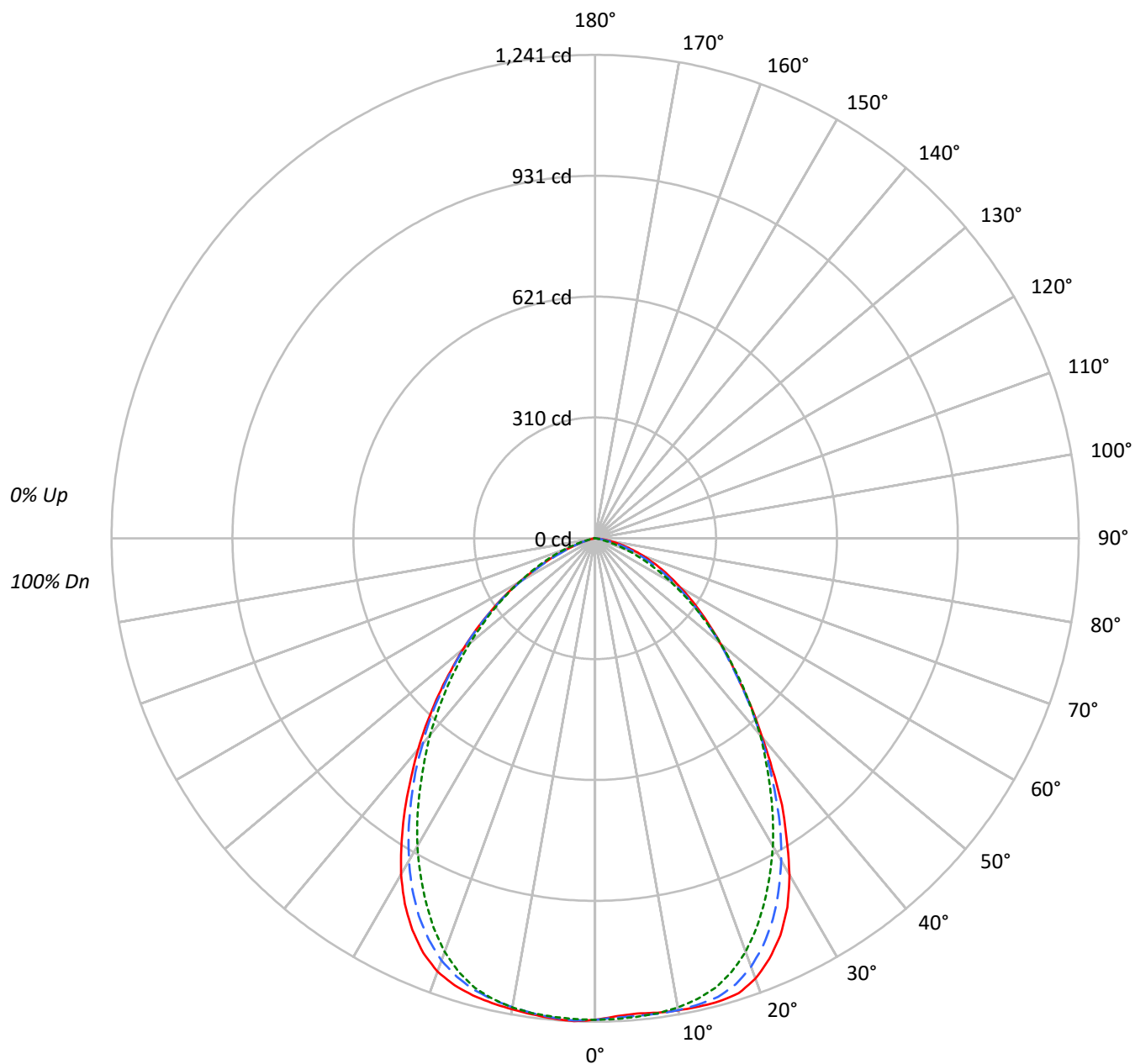
Lumens per Lamp: N/A
Luminaire Lumens: 2370.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P857553

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBLWW*

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	151871	151871	151871
5°	151021	152045	152624
10°	153516	152593	153166
15°	156517	151912	154456
20°	157304	147655	154702
25°	152471	139444	150397
30°	141519	129404	141249
35°	125320	117387	127690
40°	106825	105718	113240
45°	91787	92830	98633
50°	80120	80292	84554
55°	70789	67812	70104
60°	62041	55309	55087
65°	54912	42907	38197
70°	46840	29526	22665
75°	37879	15854	10348
80°	25965	3962	2618
85°	7894	1269	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	5.0
10°-20°	340.1	14.4
20°-30°	491.4	20.7
30°-40°	508.0	21.4
40°-50°	419.8	17.7
50°-60°	289.7	12.2
60°-70°	151.7	6.4
70°-80°	47.7	2.0
80°-90°	4.1	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°	949.0	40.0
0°-40°	1457.1	61.5
0°-60°	2166.5	91.4
0°-90°	2370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1236	1236	1236	1236	1236	
5°	1225	1231	1233	1235	1238	117
15°	1231	1219	1194	1200	1214	347
25°	1125	1079	1029	1070	1110	514
35°	836	808	783	824	851	519
45°	528	526	534	559	568	412
55°	330	320	317	325	327	297
65°	189	171	148	123	131	187
75°	80	63	33	23	22	86
85°	6	3	1	1	1	12
90°	0	0	0	0	0	



TEST NUMBER: P857553

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2
2.5°	1228.3	1228.8	1228.8	1229.7	1229.7	1229.7	1230.2	1230.2	1230.6	1231.1	1231.5
5°	1224.6	1224.6	1225.5	1226.0	1226.9	1227.4	1228.3	1228.8	1229.7	1230.2	1230.6
7.5°	1228.3	1228.3	1228.8	1229.2	1229.2	1229.7	1229.7	1230.2	1230.6	1231.1	1231.1
10°	1230.6	1230.6	1230.6	1230.6	1231.1	1231.1	1231.1	1230.6	1230.6	1230.6	1230.2
12.5°	1231.5	1231.5	1231.1	1230.6	1231.1	1230.6	1230.6	1229.2	1228.3	1227.4	1226.0
15°	1230.6	1230.6	1230.2	1229.7	1229.2	1228.3	1227.8	1225.5	1223.7	1220.9	1219.0
17.5°	1224.6	1223.7	1222.7	1221.8	1219.9	1218.5	1217.6	1213.4	1210.2	1205.6	1200.4
20°	1203.2	1202.3	1200.9	1198.6	1196.3	1194.4	1191.6	1185.6	1182.3	1175.4	1170.3
22.5°	1168.4	1167.5	1167.9	1163.8	1159.1	1156.3	1154.5	1149.4	1143.8	1135.0	1129.4
25°	1124.8	1122.0	1122.0	1115.5	1113.2	1111.3	1109.0	1103.0	1094.6	1086.7	1079.3
27.5°	1068.1	1064.4	1062.6	1061.6	1056.1	1051.9	1048.6	1044.0	1037.0	1030.1	1019.9
30°	997.6	997.1	994.8	990.6	986.4	984.6	980.9	973.0	966.5	961.4	954.9
32.5°	914.5	914.0	914.0	914.0	911.2	910.8	905.2	901.0	895.9	888.0	883.9
35°	835.6	835.1	835.6	828.6	826.8	825.4	824.9	822.1	815.2	811.4	807.7
37.5°	746.4	747.8	746.9	745.1	747.4	743.2	746.4	740.4	737.6	736.7	732.5
40°	666.1	669.9	666.1	666.6	668.9	664.7	664.7	663.8	662.0	661.0	660.1
42.5°	597.4	592.8	595.6	593.3	595.6	594.2	591.9	593.3	593.7	591.9	591.4
45°	528.3	529.2	530.1	528.7	528.7	527.3	531.1	528.7	528.7	529.2	525.9
47.5°	472.1	470.7	471.6	470.7	471.2	470.2	471.2	471.6	470.7	470.7	467.9
50°	419.2	418.3	421.5	418.7	418.7	418.3	418.7	417.8	416.4	416.4	417.3
52.5°	373.2	371.4	370.9	373.2	370.0	370.0	370.4	369.5	367.7	366.7	364.4
55°	330.5	330.1	330.5	328.7	327.7	327.7	325.4	324.5	324.0	321.7	320.3
57.5°	290.6	289.2	289.7	289.2	287.3	286.9	285.0	285.0	283.2	281.3	279.0
60°	252.5	252.5	253.9	252.1	250.7	249.7	248.8	247.9	244.6	241.4	238.6
62.5°	218.6	219.1	218.6	217.2	216.3	215.4	214.5	211.7	208.9	207.0	203.8
65°	188.9	188.5	187.1	186.1	183.8	183.8	182.0	180.6	177.3	174.5	171.3
67.5°	158.3	157.4	157.4	157.4	154.6	154.1	153.2	150.4	147.6	143.9	141.1
70°	130.4	131.4	130.0	128.6	127.2	126.7	125.3	122.6	119.3	115.6	113.3
72.5°	104.0	104.9	103.5	103.1	100.3	99.3	98.9	96.6	92.8	90.5	86.8
75°	79.8	80.3	79.4	78.5	76.6	76.1	73.8	72.0	69.6	65.9	62.7
77.5°	57.6	56.6	56.6	54.8	52.9	52.9	52.5	49.7	46.4	43.6	40.9
80°	36.7	36.2	34.8	33.9	32.5	32.0	31.6	29.2	26.9	25.1	23.2
82.5°	18.6	18.1	17.6	17.2	16.2	15.3	15.8	13.9	13.0	11.1	9.7
85°	5.6	6.0	6.0	5.6	5.1	5.1	5.1	4.6	3.7	3.2	2.8
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



TEST NUMBER: P857553

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2
2.5°	1232.0	1232.5	1232.9	1233.4	1233.4	1233.9	1234.3	1234.8	1235.3	1235.3	1235.7
5°	1231.1	1232.0	1232.0	1232.5	1232.5	1232.5	1232.9	1232.9	1232.9	1232.9	1233.4
7.5°	1231.5	1231.5	1231.5	1231.1	1231.1	1230.6	1230.6	1230.6	1229.7	1229.7	1229.7
10°	1229.2	1228.8	1228.3	1227.4	1226.9	1226.4	1225.5	1224.6	1223.7	1223.2	1222.3
12.5°	1224.6	1222.7	1220.9	1219.0	1218.1	1217.6	1215.8	1214.4	1213.0	1211.6	1210.7
15°	1215.3	1212.5	1209.3	1205.6	1204.6	1203.7	1200.4	1197.7	1195.8	1194.4	1192.1
17.5°	1196.7	1191.2	1187.4	1181.9	1179.6	1178.6	1173.5	1170.7	1167.5	1166.6	1164.7
20°	1163.8	1158.7	1151.7	1146.6	1143.8	1141.0	1136.8	1133.1	1129.4	1129.4	1127.1
22.5°	1122.5	1116.0	1107.1	1100.6	1100.2	1094.6	1090.9	1086.7	1085.3	1082.5	1082.5
25°	1070.5	1064.9	1055.1	1049.6	1046.8	1045.4	1039.4	1033.8	1031.0	1028.7	1030.5
27.5°	1012.9	1004.5	997.1	990.2	987.8	985.1	979.5	977.2	972.1	971.6	971.1
30°	947.0	938.6	931.2	928.0	923.3	921.0	916.8	914.0	912.2	912.2	911.2
32.5°	877.8	870.4	866.7	859.7	857.4	854.1	851.4	848.6	849.5	848.6	849.0
35°	803.1	801.2	794.3	790.1	790.1	789.6	785.0	783.1	782.2	782.7	785.0
37.5°	732.1	726.5	721.8	719.1	721.4	718.6	718.1	718.1	720.9	719.1	722.8
40°	656.4	655.9	654.1	655.0	655.5	652.2	653.1	653.6	655.5	659.2	659.6
42.5°	590.5	590.0	590.0	590.0	589.1	587.2	589.1	592.3	591.9	594.7	597.0
45°	526.9	525.9	527.8	526.4	529.2	530.1	528.7	529.7	532.4	534.3	538.0
47.5°	468.9	468.9	469.3	470.2	467.5	469.8	470.7	472.6	474.0	474.9	476.7
50°	415.0	415.0	414.1	414.1	414.1	415.5	413.6	415.9	416.4	420.1	422.4
52.5°	365.3	363.0	364.4	363.5	361.6	360.7	361.6	362.1	364.9	365.8	368.6
55°	318.0	318.0	314.3	313.3	314.7	314.3	313.8	313.8	315.2	316.6	318.9
57.5°	276.2	273.4	270.6	270.2	268.8	269.2	269.2	268.8	267.8	268.3	268.8
60°	236.7	234.9	230.7	230.7	230.2	229.8	227.5	227.0	224.7	225.1	223.3
62.5°	200.5	199.6	194.0	192.2	192.2	190.8	188.5	188.0	184.8	184.8	182.9
65°	168.0	165.3	162.0	158.8	158.8	156.9	155.5	151.3	149.0	147.6	144.8
67.5°	138.3	134.2	130.9	128.1	126.3	125.8	122.6	119.8	116.1	113.7	109.6
70°	109.6	106.3	103.1	100.3	98.4	96.6	93.3	89.1	86.3	82.2	79.4
72.5°	82.6	79.8	77.1	73.3	71.0	69.6	66.4	62.7	58.0	55.2	51.5
75°	59.4	56.2	52.5	49.2	47.8	46.4	42.7	39.9	36.7	33.4	29.7
77.5°	38.5	34.8	32.0	28.3	27.9	26.9	23.2	20.4	18.1	16.2	13.9
80°	20.4	18.6	16.2	13.9	13.0	11.6	9.7	8.4	7.0	5.6	4.6
82.5°	8.8	7.4	6.0	5.1	4.6	4.2	3.2	2.8	2.3	2.3	1.9
85°	2.3	1.9	1.9	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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



TEST NUMBER: P857553

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2
2.5°	1236.2	1236.7	1237.1	1237.1	1237.6	1238.0	1238.0	1238.5	1239.0	1239.4	1239.4
5°	1233.9	1233.9	1233.9	1234.3	1234.3	1234.3	1234.3	1235.3	1235.3	1235.7	1236.2
7.5°	1229.2	1229.2	1229.2	1229.2	1228.8	1229.2	1228.8	1228.8	1229.7	1230.2	1230.6
10°	1221.8	1221.3	1221.3	1220.9	1220.9	1220.9	1221.3	1221.8	1222.3	1222.7	1224.1
12.5°	1210.2	1209.7	1209.7	1209.3	1209.3	1209.7	1210.2	1211.1	1213.0	1213.9	1215.8
15°	1191.6	1191.2	1191.6	1192.1	1193.0	1194.4	1195.8	1197.2	1200.0	1202.3	1204.6
17.5°	1164.7	1165.2	1165.6	1166.6	1167.9	1169.8	1173.5	1177.2	1180.5	1184.2	1187.9
20°	1127.6	1129.4	1129.9	1133.1	1134.1	1138.2	1142.4	1148.0	1153.1	1157.7	1162.8
22.5°	1083.0	1084.4	1086.2	1090.0	1092.3	1097.9	1103.0	1109.5	1115.0	1121.1	1128.5
25°	1032.4	1032.9	1038.4	1038.4	1044.0	1048.6	1054.7	1061.6	1070.0	1077.9	1083.0
27.5°	974.8	977.2	981.3	983.2	987.4	994.8	999.9	1008.3	1016.6	1023.6	1029.2
30°	914.5	916.3	923.3	924.2	927.5	934.0	941.0	948.8	955.3	963.2	968.3
32.5°	850.9	856.0	860.2	863.4	864.4	874.1	877.8	883.4	890.8	898.7	903.8
35°	789.2	791.5	797.5	799.4	802.2	807.7	815.2	819.8	823.5	828.6	834.6
37.5°	723.7	730.7	732.1	737.6	738.6	743.7	747.4	752.9	757.6	762.2	763.2
40°	662.9	665.2	670.3	671.7	672.6	679.6	684.2	685.6	688.0	692.1	697.7
42.5°	601.2	603.5	609.0	607.6	611.8	615.1	617.4	623.0	625.3	626.7	626.7
45°	540.3	541.3	545.0	546.8	549.2	551.0	555.2	558.0	558.9	563.1	564.5
47.5°	482.3	483.2	486.0	489.3	488.3	490.7	495.3	496.7	497.2	500.0	501.3
50°	425.2	427.5	431.3	430.3	433.1	434.5	438.7	439.6	439.6	440.1	440.5
52.5°	371.8	373.7	374.6	375.5	376.9	379.3	381.1	380.2	382.0	383.9	382.5
55°	318.9	320.3	322.6	323.6	323.6	324.0	323.1	327.3	325.4	324.9	325.4
57.5°	270.6	268.8	268.3	270.6	271.6	271.1	269.7	271.6	271.6	270.6	269.2
60°	223.7	222.4	221.9	222.4	220.5	219.1	220.0	219.1	216.8	215.9	216.3
62.5°	181.0	179.6	175.9	175.9	175.0	174.5	170.8	171.3	169.4	166.7	167.6
65°	141.6	137.9	136.0	135.5	132.3	129.5	128.6	125.3	122.6	122.1	122.6
67.5°	106.3	102.1	98.9	97.5	95.6	93.3	90.1	87.3	88.2	87.7	89.6
70°	73.8	71.0	67.8	65.5	66.4	63.6	61.7	61.7	62.2	62.7	63.6
72.5°	49.2	45.5	44.1	42.7	41.8	39.9	40.9	40.9	40.4	40.9	39.9
75°	27.9	26.0	24.6	24.1	23.2	23.2	23.2	23.2	22.7	22.3	22.3
77.5°	12.5	11.6	11.1	10.7	10.7	10.7	10.2	9.7	9.7	9.7	9.3
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	1.9	1.9	2.3	2.3	2.3	1.9	2.3	2.3	1.9	1.9	2.3
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P857553

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2
2.5°	1239.9	1240.4	1240.4	1240.4	1240.8	1240.8	1240.8	1240.8
5°	1236.7	1237.1	1237.1	1237.1	1237.6	1237.6	1237.6	1237.6
7.5°	1231.1	1231.5	1231.5	1232.0	1232.0	1232.5	1232.5	1232.9
10°	1224.6	1225.5	1226.0	1226.4	1226.9	1227.4	1227.4	1227.8
12.5°	1217.6	1218.5	1219.0	1219.9	1220.9	1221.3	1221.8	1222.3
15°	1207.4	1209.3	1210.2	1210.7	1212.5	1213.4	1213.9	1214.4
17.5°	1191.2	1194.9	1196.3	1197.2	1199.1	1200.9	1202.3	1202.8
20°	1167.9	1172.1	1174.0	1176.3	1179.1	1181.4	1182.3	1183.3
22.5°	1135.5	1140.1	1142.9	1145.7	1148.0	1150.3	1154.0	1152.6
25°	1089.0	1096.9	1100.2	1101.6	1106.7	1109.5	1111.3	1109.5
27.5°	1037.0	1041.7	1044.5	1047.7	1051.4	1054.2	1055.1	1057.9
30°	974.4	982.3	981.8	985.1	989.7	992.5	993.4	995.7
32.5°	909.4	913.1	915.9	915.4	917.3	922.4	920.5	924.7
35°	840.2	840.7	845.3	844.9	848.6	848.6	848.6	851.4
37.5°	766.4	772.0	769.7	775.2	773.4	774.8	774.8	775.7
40°	699.1	701.0	701.0	702.8	704.2	702.8	703.7	706.1
42.5°	629.5	631.3	631.8	630.9	632.3	636.4	633.2	636.0
45°	564.5	565.9	567.7	566.3	568.7	567.3	568.7	567.7
47.5°	503.2	502.7	502.3	506.0	502.7	503.2	505.1	501.8
50°	440.5	443.3	441.5	442.9	443.8	443.8	442.4	442.4
52.5°	384.8	384.4	383.0	384.4	383.4	383.9	384.8	383.9
55°	327.3	329.1	328.2	327.7	328.2	328.2	331.0	327.3
57.5°	270.6	269.7	271.1	274.3	271.1	273.4	274.8	275.3
60°	216.8	216.8	219.6	218.2	221.0	223.3	225.1	224.2
62.5°	165.3	167.6	168.5	169.0	171.8	173.6	173.6	173.1
65°	122.6	125.8	125.8	127.7	128.6	128.6	129.5	131.4
67.5°	90.5	90.5	91.0	91.9	91.4	91.4	92.4	92.8
70°	63.1	62.2	63.6	63.1	63.1	62.7	63.1	63.1
72.5°	39.9	39.9	40.4	39.9	39.0	39.5	39.5	40.4
75°	21.4	22.3	21.4	21.4	21.8	20.9	21.4	21.8
77.5°	8.8	8.8	8.8	8.8	8.8	8.4	8.4	8.4
80°	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.7
82.5°	1.9	2.3	1.9	2.3	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)