

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: P857575

Luminaire Tested: **LX4C30D010 EX4C309040 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857575
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 EX4C309040 4LBLWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

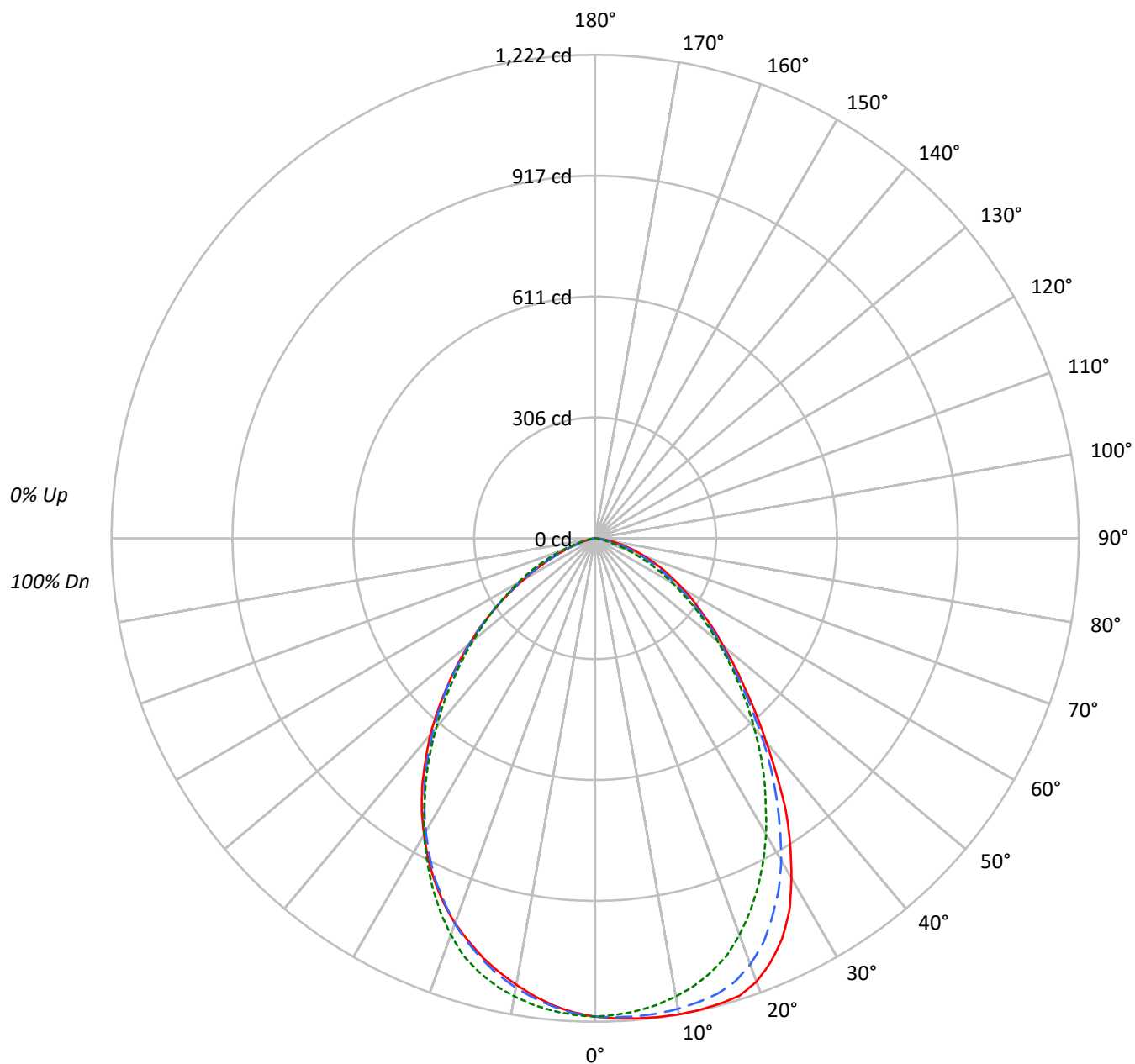
Lumens per Lamp: N/A
Luminaire Lumens: 2279.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	148567	148567	148567
5°	150219	147926	146322
10°	152430	146680	142962
15°	154927	144345	139550
20°	155905	139432	135418
25°	151441	131894	129874
30°	140738	122595	122651
35°	125980	111747	114117
40°	107867	100169	103826
45°	92847	88330	91631
50°	80713	76890	79203
55°	71025	66141	65542
60°	63196	55186	50861
65°	55436	44215	36773
70°	47630	31250	24893
75°	38638	18085	14572
80°	27663	7924	7216
85°	10431	3242	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	5.0
10°-20°	322.6	14.2
20°-30°	460.7	20.2
30°-40°	481.9	21.1
40°-50°	403.8	17.7
50°-60°	282.6	12.4
60°-70°	153.9	6.8
70°-80°	53.4	2.3
80°-90°	6.1	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°	897.3	39.4
0°-40°	1379.2	60.5
0°-60°	2065.6	90.6
0°-90°	2279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1209	1209	1209	1209	1209	
5°	1218	1212	1200	1189	1186	116
15°	1218	1192	1135	1102	1097	344
25°	1117	1058	973	954	958	510
35°	840	799	745	751	761	521
45°	534	522	508	525	527	416
55°	332	320	309	309	306	300
65°	191	174	152	128	126	190
75°	81	66	38	31	31	88
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°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1214.9	1213.5	1213.9	1213.9	1213.9	1213.5	1213.9	1213.5	1213.5	1213.0	1212.1
5°	1218.1	1217.2	1217.2	1217.2	1216.7	1216.3	1216.3	1215.8	1214.9	1214.4	1212.5
7.5°	1220.5	1219.5	1219.5	1219.1	1218.6	1218.1	1217.7	1216.3	1214.9	1213.9	1211.6
10°	1221.9	1220.5	1220.5	1219.5	1218.6	1218.1	1217.2	1215.3	1213.5	1211.2	1207.9
12.5°	1220.9	1219.5	1219.1	1218.1	1216.3	1215.3	1214.4	1212.1	1208.8	1205.6	1201.4
15°	1218.1	1217.2	1216.3	1214.9	1212.5	1211.2	1210.2	1206.5	1202.3	1197.7	1192.5
17.5°	1212.5	1211.2	1209.3	1207.4	1204.2	1202.8	1200.5	1195.8	1189.8	1183.2	1175.3
20°	1192.5	1191.6	1189.8	1186.5	1181.4	1179.5	1176.3	1170.2	1162.3	1154.4	1146.0
22.5°	1159.5	1158.1	1155.3	1152.5	1147.9	1144.6	1141.9	1133.5	1124.6	1116.3	1108.4
25°	1117.2	1115.8	1112.1	1108.4	1103.7	1098.1	1095.3	1088.8	1080.0	1069.3	1057.7
27.5°	1062.8	1058.1	1056.7	1052.5	1045.6	1043.7	1039.5	1031.2	1022.8	1013.5	1003.7
30°	992.1	992.1	989.3	987.4	980.9	979.1	974.4	965.6	960.9	947.9	940.5
32.5°	917.2	916.3	913.9	912.6	908.8	905.6	900.9	896.3	886.0	879.5	869.3
35°	840.0	834.4	835.3	832.6	830.2	826.5	826.0	820.9	811.6	807.9	798.6
37.5°	752.1	749.8	753.0	748.8	746.5	747.0	743.3	740.0	736.3	729.8	727.9
40°	672.6	674.4	673.9	670.2	672.1	669.8	666.0	662.8	660.9	656.7	655.3
42.5°	601.4	598.6	597.7	597.7	598.1	598.1	596.3	593.9	593.9	589.8	585.6
45°	534.4	534.4	533.5	536.3	532.1	532.1	530.7	530.2	528.4	527.4	522.3
47.5°	476.7	476.3	475.8	475.3	474.9	474.9	472.1	469.8	469.3	466.5	463.7
50°	422.3	425.1	424.2	421.9	420.9	421.4	419.5	418.1	417.7	413.0	413.5
52.5°	376.7	376.3	377.2	375.8	373.5	374.0	372.1	370.2	368.4	366.0	364.2
55°	331.6	334.0	333.0	331.6	331.2	330.2	328.8	326.5	326.0	320.9	320.5
57.5°	294.0	293.5	292.6	290.2	289.8	288.4	288.4	286.5	283.7	280.9	278.6
60°	257.2	257.2	255.8	255.3	253.5	253.0	252.6	250.7	247.4	245.1	241.4
62.5°	221.9	222.8	221.9	220.5	219.1	217.2	216.3	214.9	212.1	209.8	206.5
65°	190.7	190.2	189.8	187.9	187.4	185.6	185.1	182.3	179.5	177.7	174.0
67.5°	160.9	159.5	159.5	158.6	157.7	156.3	155.3	152.6	149.3	147.4	143.7
70°	132.6	131.6	131.6	131.6	129.3	127.9	127.4	126.0	121.4	119.5	115.8
72.5°	106.5	106.0	105.6	104.2	102.8	102.8	100.9	98.1	95.8	93.5	90.7
75°	81.4	82.3	81.4	79.5	79.1	78.1	76.7	74.4	72.1	69.3	66.0
77.5°	59.5	58.6	57.7	57.7	56.7	54.9	54.4	52.6	49.8	47.9	44.7
80°	39.1	38.6	37.7	36.7	36.3	35.8	35.3	33.5	30.7	29.3	26.5
82.5°	21.4	20.9	20.9	20.5	19.1	19.1	18.6	16.7	15.3	14.4	13.0
85°	7.4	7.4	7.4	7.0	7.0	7.0	6.5	6.0	5.6	5.1	4.2
87.5°	0.9	0.5	0.9	0.5	0.9	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°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1211.2	1210.2	1209.8	1209.3	1208.8	1208.4	1207.9	1207.0	1206.5	1206.0	1205.1
5°	1211.2	1209.3	1208.4	1207.0	1206.0	1205.1	1203.7	1202.3	1200.9	1199.5	1198.1
7.5°	1209.3	1206.5	1204.6	1201.9	1200.9	1199.5	1196.7	1194.9	1192.5	1189.8	1186.5
10°	1204.6	1201.4	1197.7	1193.9	1192.5	1190.2	1186.5	1183.2	1179.5	1175.8	1172.5
12.5°	1197.2	1192.1	1187.4	1182.3	1179.5	1177.2	1172.1	1167.4	1162.8	1158.6	1153.0
15°	1186.0	1180.0	1173.9	1167.0	1163.7	1160.9	1153.5	1147.9	1140.5	1134.9	1129.3
17.5°	1167.9	1158.6	1151.2	1142.3	1137.7	1134.4	1127.9	1119.1	1112.1	1106.0	1099.5
20°	1136.7	1127.9	1117.7	1107.9	1102.8	1098.6	1089.3	1080.0	1073.0	1066.5	1059.5
22.5°	1095.8	1084.6	1077.2	1065.1	1060.9	1055.8	1044.6	1036.3	1028.4	1021.9	1015.3
25°	1046.0	1036.3	1026.0	1014.9	1009.8	1003.7	994.4	985.6	980.5	973.0	965.1
27.5°	988.8	980.9	968.4	958.6	953.5	948.8	940.0	932.1	924.6	919.5	912.1
30°	928.4	919.1	907.9	897.7	894.9	889.3	881.4	875.3	867.4	864.2	860.9
32.5°	861.9	851.2	842.8	836.3	830.7	826.0	821.9	812.1	810.7	802.3	801.4
35°	789.3	784.6	776.7	771.2	766.5	763.2	756.3	751.6	746.5	745.1	741.9
37.5°	720.9	715.3	707.9	702.8	699.5	699.1	693.9	691.2	687.4	685.6	681.9
40°	649.3	647.0	640.5	639.5	634.4	633.9	631.2	627.9	624.6	624.6	625.1
42.5°	583.3	580.5	577.7	574.4	571.6	571.6	570.2	569.3	568.4	567.0	569.3
45°	521.4	517.7	515.8	512.6	513.9	511.2	510.2	510.2	508.8	508.4	511.6
47.5°	463.7	459.5	457.7	456.7	456.7	457.2	453.0	454.4	453.9	454.9	456.3
50°	411.2	407.4	404.6	404.6	405.1	403.3	401.4	402.8	401.4	402.3	405.6
52.5°	362.3	358.6	357.2	357.2	354.4	354.0	354.9	353.0	353.5	354.0	355.8
55°	317.2	314.9	312.6	310.2	310.7	309.8	307.9	307.4	308.4	308.8	311.2
57.5°	276.7	273.5	270.2	269.3	268.4	268.4	266.0	265.6	266.5	264.2	264.2
60°	238.1	236.3	232.1	230.7	230.7	228.4	226.5	227.4	225.1	224.6	225.1
62.5°	202.3	200.9	198.1	195.3	194.4	193.5	191.2	190.2	189.3	187.4	184.6
65°	171.2	167.9	164.6	162.8	161.4	159.1	157.7	155.8	153.0	152.1	149.3
67.5°	140.0	136.7	133.5	132.1	130.7	129.3	127.0	124.7	121.4	117.7	114.4
70°	112.6	108.4	106.5	102.8	101.9	100.0	96.7	94.4	91.2	87.0	83.7
72.5°	86.0	83.3	80.5	77.2	74.9	73.5	70.7	67.0	63.3	60.9	57.7
75°	61.9	60.5	56.7	53.0	52.1	50.2	47.0	44.7	41.9	38.1	35.3
77.5°	41.9	39.1	36.7	33.5	32.6	30.7	28.8	26.5	24.7	22.3	20.5
80°	24.7	22.3	20.9	18.6	17.7	16.7	15.3	13.5	12.1	11.2	10.7
82.5°	12.1	10.2	9.8	8.4	7.9	7.4	6.5	6.0	5.1	5.1	5.1
85°	4.2	3.3	3.3	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	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°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1204.6	1204.2	1203.7	1203.2	1203.2	1202.8	1202.8	1202.3	1202.3	1201.9	1201.9
5°	1196.3	1194.9	1193.9	1193.0	1193.0	1191.6	1190.7	1189.8	1189.3	1189.3	1188.4
7.5°	1184.6	1182.8	1180.9	1179.5	1179.1	1176.7	1174.9	1174.9	1173.0	1172.1	1171.2
10°	1169.3	1166.0	1163.2	1161.9	1160.0	1158.6	1156.3	1154.9	1153.5	1151.2	1150.7
12.5°	1148.4	1146.0	1141.9	1140.0	1139.1	1136.3	1132.5	1130.7	1130.2	1128.4	1127.0
15°	1124.6	1119.5	1115.8	1113.5	1113.5	1108.8	1107.0	1104.2	1102.3	1100.9	1100.5
17.5°	1093.9	1088.8	1085.1	1081.9	1080.9	1077.2	1074.4	1073.5	1071.2	1072.1	1069.8
20°	1054.4	1050.2	1047.4	1043.2	1043.2	1040.9	1040.0	1037.7	1036.7	1035.8	1036.7
22.5°	1012.1	1007.0	1002.3	1001.9	1001.9	998.6	998.1	997.7	995.8	997.2	996.7
25°	962.3	958.6	955.8	955.3	955.3	953.5	951.6	952.6	953.9	953.5	954.9
27.5°	910.7	907.0	906.0	905.6	904.6	904.2	905.1	905.1	906.5	908.4	910.2
30°	854.9	853.9	852.6	852.1	851.2	853.5	854.4	855.8	855.3	858.1	860.0
32.5°	799.1	797.2	796.7	797.7	799.1	798.6	801.4	802.3	803.2	806.5	807.9
35°	742.8	742.3	741.4	741.4	741.9	745.6	745.6	748.8	750.7	751.6	755.3
37.5°	682.3	684.2	685.1	686.5	687.0	688.4	689.3	692.6	694.4	696.3	698.1
40°	627.0	626.0	630.2	627.4	628.4	632.6	634.4	633.9	636.7	639.5	641.4
42.5°	567.9	569.3	570.2	571.2	573.5	573.9	576.3	579.5	580.5	583.7	584.6
45°	510.7	511.2	513.0	514.9	516.3	520.0	520.9	522.3	525.1	525.1	526.5
47.5°	456.7	458.6	458.6	461.4	463.7	463.3	466.5	467.4	467.0	469.3	470.2
50°	405.1	407.9	407.4	409.3	410.2	410.7	413.5	414.4	412.6	414.9	415.3
52.5°	355.8	357.2	359.1	359.5	358.6	360.9	360.0	361.9	361.4	363.3	361.4
55°	310.7	310.2	310.2	311.2	310.2	311.2	312.1	310.2	308.8	310.7	310.2
57.5°	265.6	265.6	264.6	266.0	264.6	263.3	262.8	261.4	260.0	260.0	259.5
60°	223.3	222.3	220.5	220.0	220.0	217.7	216.7	214.9	214.9	213.0	211.2
62.5°	183.7	181.4	180.0	180.0	179.1	176.7	172.6	169.8	168.8	166.0	165.6
65°	146.5	144.2	142.8	140.0	137.7	136.7	132.6	129.3	127.9	125.1	125.6
67.5°	112.6	108.8	104.7	102.8	101.4	98.1	96.7	94.4	93.0	93.0	93.0
70°	80.9	77.7	73.5	72.1	71.2	68.4	67.0	66.5	67.9	67.4	67.9
72.5°	54.4	51.2	49.3	48.4	47.4	46.0	47.0	47.4	46.5	47.0	47.4
75°	33.0	32.1	30.7	30.2	30.2	30.7	30.2	30.2	30.7	30.7	31.2
77.5°	19.1	18.1	18.1	17.7	18.6	18.1	18.1	18.1	18.6	18.6	18.6
80°	10.2	10.2	10.2	10.2	10.7	10.2	10.7	10.7	10.7	10.7	10.7
82.5°	5.1	5.1	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.1
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	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: P857575

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1200.9	1200.9	1200.9	1200.0	1200.5	1200.5	1200.0	1200.0
5°	1187.9	1187.4	1186.5	1186.5	1185.6	1186.5	1186.0	1186.5
7.5°	1170.2	1170.2	1168.8	1168.8	1168.4	1167.9	1167.4	1167.9
10°	1149.3	1149.3	1148.4	1147.9	1148.4	1146.5	1146.5	1146.0
12.5°	1126.0	1125.1	1124.2	1124.6	1124.2	1122.8	1122.3	1122.8
15°	1099.1	1097.7	1098.1	1096.7	1096.7	1096.3	1097.2	1097.2
17.5°	1069.3	1068.4	1067.4	1067.9	1067.0	1067.4	1067.0	1066.5
20°	1036.3	1035.8	1035.8	1033.9	1034.4	1033.9	1034.4	1035.8
22.5°	998.1	997.7	998.1	996.7	997.7	997.7	999.1	999.1
25°	956.3	955.8	956.7	957.2	957.7	959.1	957.7	958.1
27.5°	909.8	911.2	912.6	913.0	914.9	913.5	912.6	913.9
30°	862.8	862.8	862.3	864.2	865.6	867.0	864.6	864.6
32.5°	808.8	811.2	811.2	811.6	813.0	813.0	813.0	814.9
35°	757.2	758.6	759.1	757.2	758.1	757.7	760.9	760.9
37.5°	699.5	699.5	700.0	703.3	703.3	701.9	702.8	702.8
40°	644.6	645.1	643.3	644.2	646.5	645.6	646.5	647.4
42.5°	584.6	587.9	586.0	587.0	586.5	587.0	587.4	587.4
45°	527.4	528.4	528.4	528.8	529.8	530.7	527.9	527.4
47.5°	471.6	472.1	473.5	471.2	473.9	471.2	473.9	470.7
50°	415.3	417.2	415.8	416.7	415.3	415.3	414.9	414.4
52.5°	361.9	361.4	361.4	360.9	360.9	361.9	360.9	362.3
55°	308.4	308.8	307.9	307.4	307.0	308.4	307.0	306.0
57.5°	257.7	258.6	256.7	257.7	254.4	255.8	256.3	256.7
60°	210.7	209.3	209.3	207.4	207.4	208.8	207.0	207.0
62.5°	163.3	164.2	162.8	164.6	164.6	166.5	165.6	166.5
65°	125.1	125.6	126.0	126.0	126.0	128.8	127.9	126.5
67.5°	94.4	94.9	95.3	94.9	96.3	95.3	95.3	95.8
70°	68.4	68.8	69.3	69.3	68.8	69.3	69.3	69.3
72.5°	47.4	47.9	47.4	47.9	48.4	47.9	47.9	48.4
75°	31.2	31.2	30.7	30.7	30.7	30.7	31.2	30.7
77.5°	18.1	18.6	18.1	18.6	18.6	18.6	18.6	18.6
80°	10.7	10.7	10.7	10.2	10.7	10.7	10.7	10.2
82.5°	5.6	5.6	5.1	5.1	5.6	5.6	5.6	5.6
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)