

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: P857532

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

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857532
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
Light Source: -
Ballast/Driver: -

Summary

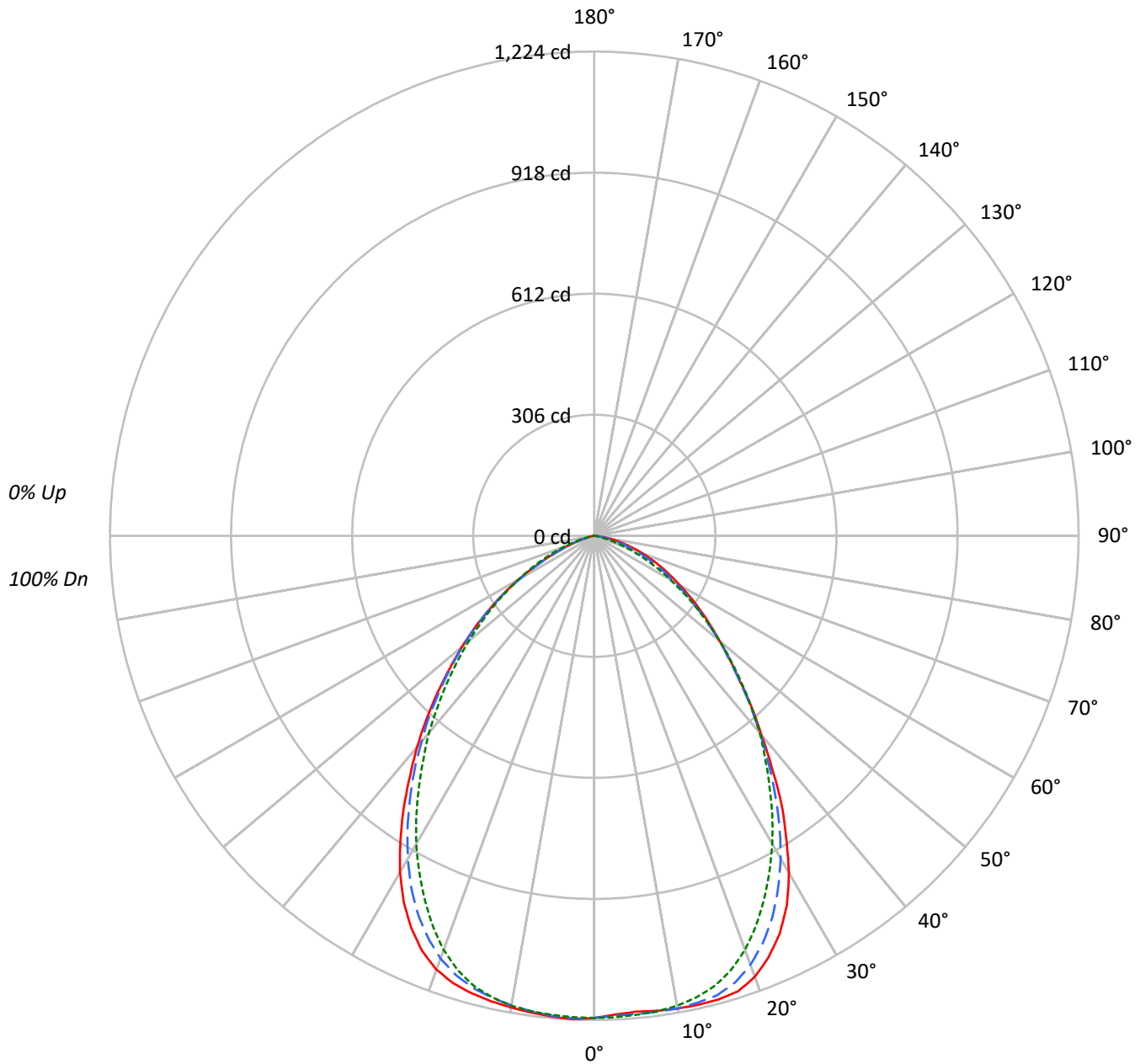
Lumens per Lamp: N/A
Luminaire Lumens: 2337.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

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°	149758	149758	149758
5°	148912	149936	150491
10°	151383	150472	151033
15°	154342	149801	152307
20°	155121	145603	152545
25°	150343	137506	148296
30°	139547	127602	139291
35°	123566	115752	125905
40°	105350	104243	111652
45°	90502	91544	97260
50°	78992	79184	83369
55°	69804	66870	69119
60°	61181	54547	54326
65°	54157	42325	37645
70°	46193	29095	22378
75°	37356	15664	10205
80°	25611	3891	2618
85°	7753	1269	1269



TEST NUMBER: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	5.0
10°-20°	335.4	14.4
20°-30°	484.6	20.7
30°-40°	501.0	21.4
40°-50°	413.9	17.7
50°-60°	285.7	12.2
60°-70°	149.6	6.4
70°-80°	47.1	2.0
80°-90°	4.0	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°	935.8	40.0
0°-40°	1436.8	61.5
0°-60°	2136.4	91.4
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1219	1219	1219	1219	1219	
5°	1208	1214	1216	1218	1220	116
15°	1214	1202	1178	1183	1198	342
25°	1109	1064	1014	1055	1094	506
35°	824	796	772	812	840	511
45°	521	519	527	551	560	406
55°	326	316	312	321	323	293
65°	186	169	146	121	130	185
75°	79	62	33	22	22	84
85°	6	3	1	1	1	11
90°	0	0	0	0	0	



TEST NUMBER: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0
2.5°	1211.2	1211.7	1211.7	1212.6	1212.6	1212.6	1213.0	1213.0	1213.5	1213.9	1214.4
5°	1207.5	1207.5	1208.4	1208.9	1209.8	1210.3	1211.2	1211.7	1212.6	1213.0	1213.5
7.5°	1211.2	1211.2	1211.7	1212.1	1212.1	1212.6	1212.6	1213.0	1213.5	1213.9	1213.9
10°	1213.5	1213.5	1213.5	1213.5	1213.9	1213.9	1213.9	1213.5	1213.5	1213.5	1213.0
12.5°	1214.4	1214.4	1213.9	1213.5	1213.9	1213.5	1213.5	1212.1	1211.2	1210.3	1208.9
15°	1213.5	1213.5	1213.0	1212.6	1212.1	1211.2	1210.7	1208.4	1206.6	1203.9	1202.0
17.5°	1207.5	1206.6	1205.7	1204.8	1203.0	1201.6	1200.7	1196.5	1193.3	1188.8	1183.7
20°	1186.5	1185.6	1184.2	1181.9	1179.6	1177.8	1175.0	1169.1	1165.9	1159.0	1154.0
22.5°	1152.1	1151.2	1151.7	1147.6	1143.0	1140.2	1138.4	1133.4	1127.9	1119.2	1113.7
25°	1109.1	1106.4	1106.4	1100.0	1097.7	1095.8	1093.6	1087.6	1079.4	1071.6	1064.3
27.5°	1053.3	1049.6	1047.8	1046.9	1041.4	1037.3	1034.0	1029.5	1022.6	1015.7	1005.7
30°	983.7	983.2	980.9	976.8	972.7	970.9	967.2	959.4	953.0	948.0	941.6
32.5°	901.8	901.3	901.3	901.3	898.6	898.1	892.6	888.5	883.4	875.7	871.5
35°	823.9	823.5	823.9	817.1	815.2	813.9	813.4	810.7	803.8	800.1	796.5
37.5°	736.1	737.4	736.5	734.7	737.0	732.9	736.1	730.1	727.4	726.4	722.3
40°	656.9	660.5	656.9	657.3	659.6	655.5	655.5	654.6	652.7	651.8	650.9
42.5°	589.1	584.5	587.3	585.0	587.3	585.9	583.6	585.0	585.5	583.6	583.2
45°	520.9	521.8	522.7	521.4	521.4	520.0	523.7	521.4	521.4	521.8	518.6
47.5°	465.5	464.2	465.1	464.2	464.6	463.7	464.6	465.1	464.2	464.2	461.4
50°	413.3	412.4	415.6	412.9	412.9	412.4	412.9	412.0	410.6	410.6	411.5
52.5°	368.0	366.2	365.7	368.0	364.8	364.8	365.3	364.4	362.5	361.6	359.3
55°	325.9	325.5	325.9	324.1	323.2	323.2	320.9	320.0	319.5	317.2	315.8
57.5°	286.5	285.2	285.6	285.2	283.3	282.9	281.1	281.1	279.2	277.4	275.1
60°	249.0	249.0	250.4	248.6	247.2	246.3	245.4	244.4	241.2	238.0	235.3
62.5°	215.6	216.1	215.6	214.2	213.3	212.4	211.5	208.7	206.0	204.2	201.0
65°	186.3	185.8	184.5	183.6	181.3	181.3	179.4	178.1	174.9	172.1	168.9
67.5°	156.1	155.2	155.2	155.2	152.4	152.0	151.1	148.3	145.6	141.9	139.2
70°	128.6	129.5	128.2	126.8	125.4	125.0	123.6	120.8	117.6	114.0	111.7
72.5°	102.5	103.5	102.1	101.6	98.9	98.0	97.5	95.2	91.5	89.3	85.6
75°	78.7	79.2	78.3	77.4	75.5	75.1	72.8	71.0	68.7	65.0	61.8
77.5°	56.8	55.8	55.8	54.0	52.2	52.2	51.7	49.0	45.8	43.0	40.3
80°	36.2	35.7	34.3	33.4	32.0	31.6	31.1	28.8	26.5	24.7	22.9
82.5°	18.3	17.9	17.4	16.9	16.0	15.1	15.6	13.7	12.8	11.0	9.6
85°	5.5	6.0	6.0	5.5	5.0	5.0	5.0	4.6	3.7	3.2	2.7
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: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0
2.5°	1214.9	1215.3	1215.8	1216.2	1216.2	1216.7	1217.1	1217.6	1218.1	1218.1	1218.5
5°	1213.9	1214.9	1214.9	1215.3	1215.3	1215.3	1215.8	1215.8	1215.8	1215.8	1216.2
7.5°	1214.4	1214.4	1214.4	1213.9	1213.9	1213.5	1213.5	1213.5	1212.6	1212.6	1212.6
10°	1212.1	1211.7	1211.2	1210.3	1209.8	1209.4	1208.4	1207.5	1206.6	1206.2	1205.2
12.5°	1207.5	1205.7	1203.9	1202.0	1201.1	1200.7	1198.8	1197.5	1196.1	1194.7	1193.8
15°	1198.4	1195.6	1192.4	1188.8	1187.8	1186.9	1183.7	1181.0	1179.2	1177.8	1175.5
17.5°	1180.1	1174.6	1170.9	1165.4	1163.1	1162.2	1157.2	1154.4	1151.2	1150.3	1148.5
20°	1147.6	1142.5	1135.7	1130.6	1127.9	1125.1	1121.0	1117.4	1113.7	1113.7	1111.4
22.5°	1106.8	1100.4	1091.7	1085.3	1084.9	1079.4	1075.7	1071.6	1070.2	1067.5	1067.5
25°	1055.6	1050.1	1040.5	1035.0	1032.2	1030.8	1024.9	1019.4	1016.7	1014.4	1016.2
27.5°	998.8	990.6	983.2	976.4	974.1	971.3	965.8	963.6	958.5	958.1	957.6
30°	933.8	925.6	918.2	915.0	910.5	908.2	904.0	901.3	899.5	899.5	898.6
32.5°	865.6	858.3	854.6	847.7	845.5	842.3	839.5	836.8	837.7	836.8	837.2
35°	791.9	790.1	783.2	779.1	779.1	778.6	774.0	772.2	771.3	771.8	774.0
37.5°	721.9	716.4	711.8	709.0	711.3	708.6	708.1	708.1	710.9	709.0	712.7
40°	647.3	646.8	645.0	645.9	646.3	643.1	644.0	644.5	646.3	650.0	650.5
42.5°	582.3	581.8	581.8	581.8	580.9	579.0	580.9	584.1	583.6	586.4	588.7
45°	519.5	518.6	520.5	519.1	521.8	522.7	521.4	522.3	525.0	526.9	530.5
47.5°	462.3	462.3	462.8	463.7	460.9	463.2	464.2	466.0	467.4	468.3	470.1
50°	409.2	409.2	408.3	408.3	408.3	409.7	407.9	410.1	410.6	414.3	416.5
52.5°	360.2	358.0	359.3	358.4	356.6	355.7	356.6	357.0	359.8	360.7	363.4
55°	313.6	313.6	309.9	309.0	310.4	309.9	309.4	309.4	310.8	312.2	314.5
57.5°	272.4	269.6	266.9	266.4	265.0	265.5	265.5	265.0	264.1	264.6	265.0
60°	233.5	231.6	227.5	227.5	227.0	226.6	224.3	223.8	221.5	222.0	220.2
62.5°	197.7	196.8	191.3	189.5	189.5	188.1	185.8	185.4	182.2	182.2	180.4
65°	165.7	163.0	159.8	156.5	156.5	154.7	153.3	149.2	146.9	145.6	142.8
67.5°	136.4	132.3	129.1	126.3	124.5	124.0	120.8	118.1	114.4	112.1	108.0
70°	108.0	104.8	101.6	98.9	97.0	95.2	92.0	87.9	85.1	81.0	78.3
72.5°	81.5	78.7	76.0	72.3	70.0	68.7	65.5	61.8	57.2	54.5	50.8
75°	58.6	55.4	51.7	48.5	47.1	45.8	42.1	39.4	36.2	33.0	29.3
77.5°	38.0	34.3	31.6	27.9	27.5	26.5	22.9	20.1	17.9	16.0	13.7
80°	20.1	18.3	16.0	13.7	12.8	11.4	9.6	8.2	6.9	5.5	4.6
82.5°	8.7	7.3	6.0	5.0	4.6	4.1	3.2	2.7	2.3	2.3	1.8
85°	2.3	1.8	1.8	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: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0
2.5°	1219.0	1219.4	1219.9	1219.9	1220.3	1220.8	1220.8	1221.3	1221.7	1222.2	1222.2
5°	1216.7	1216.7	1216.7	1217.1	1217.1	1217.1	1217.1	1218.1	1218.1	1218.5	1219.0
7.5°	1212.1	1212.1	1212.1	1212.1	1211.7	1212.1	1211.7	1211.7	1212.6	1213.0	1213.5
10°	1204.8	1204.3	1204.3	1203.9	1203.9	1203.9	1204.3	1204.8	1205.2	1205.7	1207.1
12.5°	1193.3	1192.9	1192.9	1192.4	1192.4	1192.9	1193.3	1194.3	1196.1	1197.0	1198.8
15°	1175.0	1174.6	1175.0	1175.5	1176.4	1177.8	1179.2	1180.5	1183.3	1185.6	1187.8
17.5°	1148.5	1148.9	1149.4	1150.3	1151.7	1153.5	1157.2	1160.8	1164.0	1167.7	1171.4
20°	1111.9	1113.7	1114.2	1117.4	1118.3	1122.4	1126.5	1132.0	1137.0	1141.6	1146.7
22.5°	1067.9	1069.3	1071.1	1074.8	1077.1	1082.6	1087.6	1094.0	1099.5	1105.5	1112.8
25°	1018.0	1018.5	1024.0	1024.0	1029.5	1034.0	1040.0	1046.9	1055.1	1062.9	1067.9
27.5°	961.3	963.6	967.7	969.5	973.6	980.9	986.0	994.2	1002.5	1009.3	1014.8
30°	901.8	903.6	910.5	911.4	914.6	921.0	927.8	935.6	942.0	949.8	954.9
32.5°	839.0	844.1	848.2	851.4	852.3	861.9	865.6	871.1	878.4	886.2	891.2
35°	778.2	780.5	786.4	788.2	791.0	796.5	803.8	808.4	812.0	817.1	823.0
37.5°	713.6	720.5	721.9	727.4	728.3	733.3	737.0	742.5	747.0	751.6	752.5
40°	653.7	655.9	661.0	662.4	663.3	670.1	674.7	676.1	678.4	682.5	688.0
42.5°	592.8	595.1	600.6	599.2	603.3	606.5	608.8	614.3	616.6	618.0	618.0
45°	532.8	533.7	537.4	539.2	541.5	543.3	547.5	550.2	551.1	555.2	556.6
47.5°	475.6	476.5	479.3	482.5	481.5	483.8	488.4	489.8	490.2	493.0	494.4
50°	419.3	421.6	425.2	424.3	427.1	428.4	432.6	433.5	433.5	433.9	434.4
52.5°	366.7	368.5	369.4	370.3	371.7	374.0	375.8	374.9	376.7	378.6	377.2
55°	314.5	315.8	318.1	319.0	319.0	319.5	318.6	322.7	320.9	320.4	320.9
57.5°	266.9	265.0	264.6	266.9	267.8	267.3	265.9	267.8	267.8	266.9	265.5
60°	220.6	219.3	218.8	219.3	217.4	216.1	217.0	216.1	213.8	212.9	213.3
62.5°	178.5	177.1	173.5	173.5	172.6	172.1	168.5	168.9	167.1	164.3	165.2
65°	139.6	136.0	134.1	133.7	130.5	127.7	126.8	123.6	120.8	120.4	120.8
67.5°	104.8	100.7	97.5	96.1	94.3	92.0	88.8	86.1	87.0	86.5	88.3
70°	72.8	70.0	66.8	64.5	65.5	62.7	60.9	60.9	61.3	61.8	62.7
72.5°	48.5	44.9	43.5	42.1	41.2	39.4	40.3	40.3	39.8	40.3	39.4
75°	27.5	25.6	24.3	23.8	22.9	22.9	22.9	22.9	22.4	22.0	22.0
77.5°	12.4	11.4	11.0	10.5	10.5	10.5	10.1	9.6	9.6	9.6	9.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	1.8	1.8	2.3	2.3	2.3	1.8	2.3	2.3	1.8	1.8	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: P857532

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0
2.5°	1222.6	1223.1	1223.1	1223.1	1223.6	1223.6	1223.6	1223.6
5°	1219.4	1219.9	1219.9	1219.9	1220.3	1220.3	1220.3	1220.3
7.5°	1213.9	1214.4	1214.4	1214.9	1214.9	1215.3	1215.3	1215.8
10°	1207.5	1208.4	1208.9	1209.4	1209.8	1210.3	1210.3	1210.7
12.5°	1200.7	1201.6	1202.0	1203.0	1203.9	1204.3	1204.8	1205.2
15°	1190.6	1192.4	1193.3	1193.8	1195.6	1196.5	1197.0	1197.5
17.5°	1174.6	1178.2	1179.6	1180.5	1182.4	1184.2	1185.6	1186.0
20°	1151.7	1155.8	1157.6	1159.9	1162.7	1165.0	1165.9	1166.8
22.5°	1119.6	1124.2	1127.0	1129.7	1132.0	1134.3	1138.0	1136.6
25°	1073.9	1081.7	1084.9	1086.2	1091.3	1094.0	1095.8	1094.0
27.5°	1022.6	1027.2	1029.9	1033.1	1036.8	1039.5	1040.5	1043.2
30°	960.8	968.6	968.1	971.3	975.9	978.7	979.6	981.9
32.5°	896.7	900.4	903.1	902.7	904.5	909.5	907.7	911.8
35°	828.5	829.0	833.6	833.1	836.8	836.8	836.8	839.5
37.5°	755.7	761.2	758.9	764.4	762.6	764.0	764.0	764.9
40°	689.4	691.2	691.2	693.0	694.4	693.0	693.9	696.2
42.5°	620.7	622.5	623.0	622.1	623.4	627.6	624.4	627.1
45°	556.6	558.0	559.8	558.4	560.7	559.4	560.7	559.8
47.5°	496.2	495.7	495.3	498.9	495.7	496.2	498.0	494.8
50°	434.4	437.1	435.3	436.7	437.6	437.6	436.2	436.2
52.5°	379.5	379.0	377.6	379.0	378.1	378.6	379.5	378.6
55°	322.7	324.5	323.6	323.2	323.6	323.6	326.4	322.7
57.5°	266.9	265.9	267.3	270.5	267.3	269.6	271.0	271.4
60°	213.8	213.8	216.5	215.1	217.9	220.2	222.0	221.1
62.5°	163.0	165.2	166.2	166.6	169.4	171.2	171.2	170.7
65°	120.8	124.0	124.0	125.9	126.8	126.8	127.7	129.5
67.5°	89.3	89.3	89.7	90.6	90.2	90.2	91.1	91.5
70°	62.3	61.3	62.7	62.3	62.3	61.8	62.3	62.3
72.5°	39.4	39.4	39.8	39.4	38.5	38.9	38.9	39.8
75°	21.1	22.0	21.1	21.1	21.5	20.6	21.1	21.5
77.5°	8.7	8.7	8.7	8.7	8.7	8.2	8.2	8.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	3.7	3.7
82.5°	1.8	2.3	1.8	2.3	1.8	1.8	1.8	1.8
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)