

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: P844179

Luminaire Tested: **LD6C20DE010B50 EU6C20B50 6LBSWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C20DE010B50 EU6C20B50 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

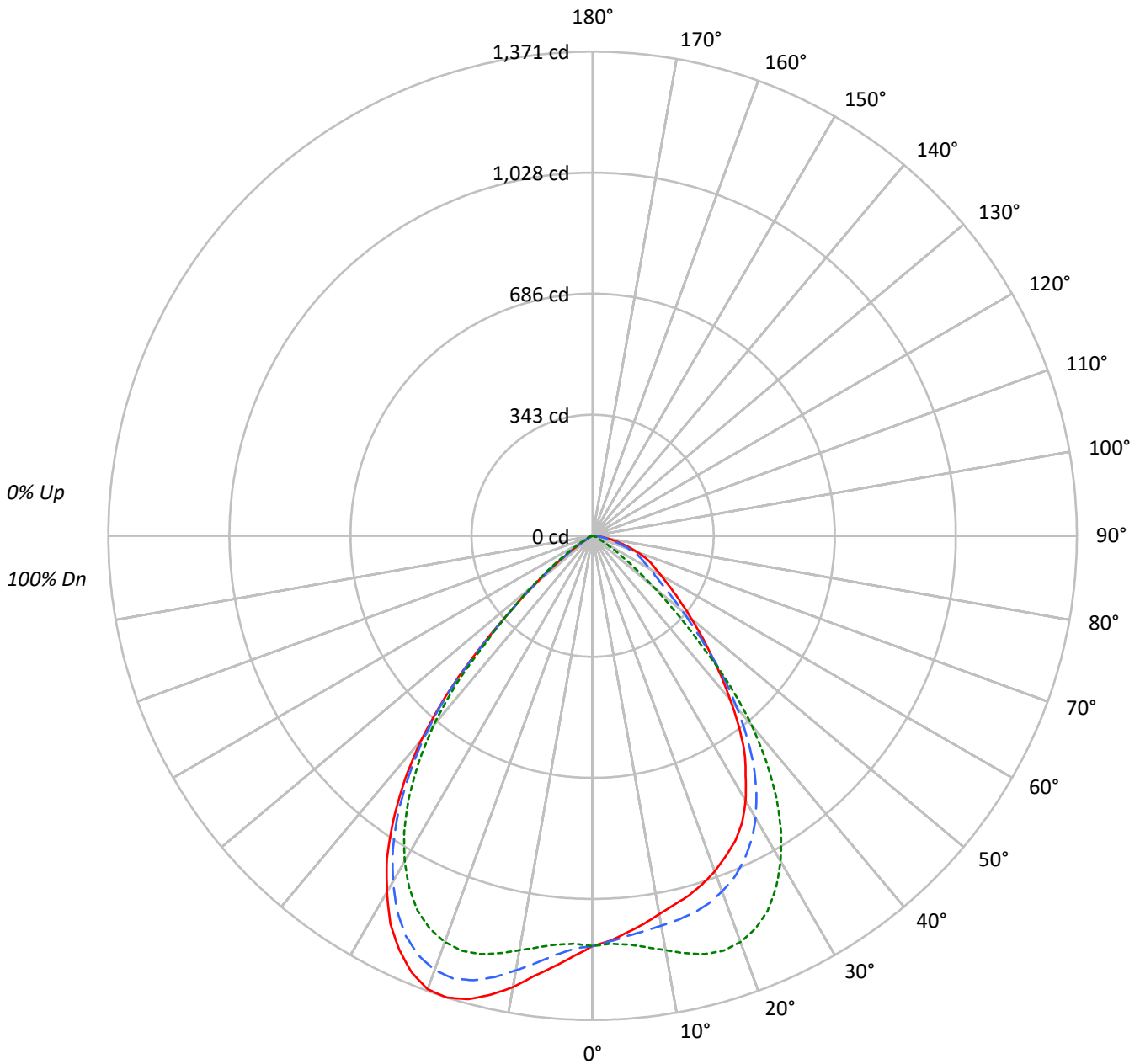
Lumens per Lamp: N/A
Luminaire Lumens: 2123.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	63690	63690	63690
5°	62040	63933	67296
10°	60537	66343	72221
15°	59824	69592	77095
20°	58968	71412	79708
25°	57717	70885	78271
30°	54844	67358	73682
35°	50179	60726	65785
40°	43396	50158	53973
45°	36601	32895	35306
50°	31078	19044	17901
55°	26972	9128	6891
60°	24351	4254	1699
65°	23621	2439	571
70°	21189	1971	545
75°	17411	1419	254
80°	12944	695	0
85°	11196	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	5.3
10°-20°	342.0	16.1
20°-30°	522.6	24.6
30°-40°	546.6	25.7
40°-50°	354.6	16.7
50°-60°	140.8	6.6
60°-70°	66.8	3.1
70°-80°	31.8	1.5
80°-90°	6.5	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°	976.8	46.0
0°-40°	1523.4	71.7
0°-60°	2018.7	95.1
0°-90°	2123.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1162	1162	1162	1162	1162	
5°	1127	1137	1162	1191	1223	106
15°	1054	1105	1226	1303	1358	297
25°	954	1014	1172	1251	1294	437
35°	750	795	907	961	983	464
45°	472	468	424	450	455	367
55°	282	240	96	74	72	256
65°	182	151	19	4	4	178
75°	82	67	7	2	1	89
85°	18	11	0	0	0	21
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°	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8
2.5°	1147.4	1149.6	1137.4	1134.1	1143.0	1146.3	1147.4	1144.0	1145.2	1149.6	1149.6
5°	1127.4	1129.7	1118.6	1115.2	1124.1	1126.3	1129.7	1128.5	1131.9	1138.5	1137.4
7.5°	1108.5	1111.9	1099.6	1095.2	1106.3	1111.9	1114.1	1114.1	1118.6	1127.4	1128.5
10°	1087.5	1091.9	1080.8	1078.5	1090.7	1096.3	1097.4	1099.6	1106.3	1118.6	1120.8
12.5°	1069.7	1074.1	1066.3	1063.0	1076.4	1081.9	1084.1	1088.5	1096.3	1111.9	1114.1
15°	1054.1	1057.4	1048.5	1046.3	1059.6	1066.3	1067.4	1074.1	1084.1	1101.8	1105.2
17.5°	1034.0	1036.3	1029.7	1027.5	1040.8	1047.4	1048.5	1056.3	1068.5	1086.3	1091.9
20°	1010.8	1013.0	1006.3	1004.1	1017.4	1025.2	1026.3	1033.0	1047.4	1066.3	1071.9
22.5°	983.0	987.5	979.7	977.5	990.8	997.5	1000.8	1006.3	1020.8	1039.7	1047.4
25°	954.2	954.2	948.6	947.4	959.7	967.5	966.4	974.1	988.6	1007.5	1014.1
27.5°	916.3	915.3	909.7	908.6	921.9	928.6	926.4	934.2	947.4	966.4	973.0
30°	866.4	868.6	860.8	858.6	869.7	880.8	879.7	887.5	900.8	918.6	923.1
32.5°	806.4	808.7	807.5	804.2	814.2	819.8	823.1	828.7	839.8	858.6	863.0
35°	749.8	746.4	742.0	742.0	752.0	760.9	757.5	764.2	775.4	794.2	795.3
37.5°	679.7	678.7	676.5	674.2	685.3	687.6	688.6	693.1	703.1	718.7	716.4
40°	606.4	607.6	606.4	602.0	608.7	617.6	616.5	618.7	627.6	638.7	635.3
42.5°	537.6	537.6	537.6	533.2	541.0	545.4	547.6	546.5	548.7	558.7	554.2
45°	472.1	473.2	472.1	471.0	472.1	474.3	472.1	471.0	471.0	474.3	467.6
47.5°	415.4	415.4	412.1	408.8	412.1	413.2	409.8	406.6	405.4	404.3	393.2
50°	364.4	363.2	362.1	356.5	359.9	361.0	356.5	354.3	349.9	344.4	331.0
52.5°	319.9	318.8	317.7	312.1	314.3	315.5	311.1	306.6	301.0	296.6	280.0
55°	282.2	281.0	281.0	277.7	275.4	277.7	273.3	269.9	262.2	256.6	240.0
57.5°	249.9	249.9	247.7	244.3	245.5	245.5	241.0	236.6	229.9	223.3	209.9
60°	222.1	222.1	222.1	218.8	218.8	218.8	216.6	212.2	206.7	199.9	186.6
62.5°	199.9	199.9	198.8	195.6	196.6	196.6	194.4	190.0	184.5	179.9	166.6
65°	182.1	182.1	182.1	178.8	178.8	179.9	177.7	173.3	168.8	163.3	151.0
67.5°	159.9	158.9	158.9	156.6	157.7	158.9	156.6	153.3	147.8	144.4	133.3
70°	132.2	133.3	134.4	131.0	132.2	132.2	131.0	127.8	124.4	121.1	111.1
72.5°	107.8	107.8	106.6	105.6	105.6	106.6	104.4	101.1	98.9	96.7	88.8
75°	82.2	81.1	82.2	80.0	80.0	80.0	77.7	76.7	75.5	72.1	66.6
77.5°	60.0	58.9	58.9	56.7	57.7	57.7	56.7	54.5	52.1	51.1	46.6
80°	41.0	41.0	41.0	40.0	40.0	38.8	38.8	37.8	35.5	34.5	32.3
82.5°	27.7	27.7	27.7	26.7	26.7	26.7	25.6	24.4	23.4	22.2	20.0
85°	17.8	17.8	17.8	16.6	16.6	16.6	15.5	15.5	14.5	13.3	11.1
87.5°	9.9	9.9	9.9	8.9	8.9	8.9	8.9	8.9	7.7	6.7	5.5
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°	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8
2.5°	1157.4	1141.8	1151.9	1151.9	1148.5	1157.4	1163.0	1167.4	1166.3	1156.3	1155.1
5°	1148.5	1135.2	1146.3	1147.4	1144.0	1156.3	1164.0	1169.6	1170.7	1161.8	1163.0
7.5°	1141.8	1130.7	1145.2	1149.6	1148.5	1159.6	1168.6	1177.4	1181.8	1175.1	1176.3
10°	1138.5	1129.7	1145.2	1151.9	1152.9	1165.2	1178.5	1190.8	1196.3	1191.8	1195.1
12.5°	1134.1	1128.5	1146.3	1156.3	1160.8	1172.9	1189.6	1204.0	1213.0	1210.8	1217.3
15°	1129.7	1125.2	1146.3	1160.8	1166.3	1177.4	1196.3	1217.3	1227.4	1226.2	1235.2
17.5°	1118.6	1117.4	1139.6	1155.1	1163.0	1176.3	1194.1	1219.6	1229.6	1231.8	1242.9
20°	1100.8	1100.8	1125.2	1141.8	1150.7	1163.0	1185.2	1209.6	1221.9	1224.1	1236.3
22.5°	1076.4	1078.5	1101.8	1118.6	1131.9	1140.8	1164.0	1189.6	1200.7	1204.0	1217.3
25°	1044.1	1046.3	1068.5	1085.2	1099.6	1109.7	1131.9	1155.1	1168.6	1171.9	1181.8
27.5°	1001.9	1006.3	1027.5	1044.1	1056.3	1063.0	1086.3	1110.7	1120.8	1124.1	1134.1
30°	953.0	954.2	975.2	989.7	1001.9	1007.5	1027.5	1053.0	1060.8	1064.1	1078.5
32.5°	893.1	891.9	912.0	925.2	935.3	941.9	963.0	979.7	987.5	993.0	1000.8
35°	820.8	819.8	834.2	849.7	857.5	859.8	880.8	898.6	903.0	907.4	917.5
37.5°	739.8	739.8	752.0	759.8	768.6	772.0	782.0	802.0	809.7	808.7	816.4
40°	654.3	649.8	658.7	666.4	668.6	669.8	679.7	695.3	700.9	700.9	706.4
42.5°	564.2	557.6	558.7	563.2	565.3	557.6	564.2	574.3	570.9	575.4	576.5
45°	468.7	458.7	454.3	444.3	446.5	438.7	434.3	436.5	435.4	424.3	426.5
47.5°	391.0	373.2	365.4	351.0	347.6	338.8	333.3	323.2	314.3	314.3	308.7
50°	325.4	307.7	292.1	275.4	269.9	262.2	249.9	236.6	229.9	223.3	217.8
52.5°	273.3	254.4	235.4	217.8	209.9	199.9	183.3	170.0	157.7	151.0	144.4
55°	231.0	209.9	190.0	171.0	161.1	151.0	134.4	118.9	104.4	95.5	90.0
57.5°	198.8	178.8	157.7	137.7	128.8	117.7	99.9	83.2	70.0	60.0	54.5
60°	175.5	155.5	136.6	115.5	106.6	95.5	76.7	61.0	47.8	38.8	32.3
62.5°	155.5	137.7	117.7	98.9	90.0	78.9	61.0	45.6	33.3	24.4	18.8
65°	141.1	123.3	106.6	87.8	80.0	68.9	52.1	37.8	26.7	18.8	13.3
67.5°	124.4	108.8	92.2	76.7	68.9	60.0	44.4	32.3	22.2	15.5	11.1
70°	104.4	92.2	77.7	63.4	57.7	49.9	36.7	26.7	17.8	12.3	8.9
72.5°	83.2	73.3	62.2	51.1	46.6	38.8	29.9	21.2	13.3	8.9	6.7
75°	63.4	55.5	46.6	38.8	34.5	29.9	22.2	15.5	9.9	6.7	4.4
77.5°	43.4	40.0	33.3	26.7	24.4	21.2	14.5	9.9	6.7	4.4	2.2
80°	29.9	26.7	22.2	17.8	15.5	13.3	8.9	6.7	3.4	2.2	1.2
82.5°	18.8	15.5	13.3	11.1	9.9	7.7	5.5	3.4	2.2	1.2	1.2
85°	9.9	8.9	7.7	5.5	5.5	4.4	3.4	2.2	1.2	0.0	0.0
87.5°	5.5	4.4	3.4	2.2	2.2	1.2	1.2	1.2	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8
2.5°	1168.6	1168.6	1167.4	1180.7	1165.2	1180.7	1172.9	1180.7	1169.6	1168.6	1169.6
5°	1177.4	1180.7	1181.8	1194.1	1179.7	1198.5	1191.8	1198.5	1190.8	1192.9	1196.3
7.5°	1195.1	1200.7	1199.7	1215.1	1200.7	1221.9	1217.3	1227.4	1219.6	1221.9	1226.2
10°	1215.1	1221.9	1222.9	1238.5	1225.2	1250.7	1245.2	1256.3	1249.6	1253.0	1258.5
12.5°	1238.5	1246.3	1247.4	1265.1	1250.7	1277.4	1274.0	1285.1	1279.6	1282.9	1289.6
15°	1256.3	1267.4	1269.6	1287.4	1271.8	1299.6	1297.4	1311.8	1302.9	1308.5	1314.0
17.5°	1265.1	1275.2	1279.6	1296.2	1282.9	1310.7	1308.5	1320.7	1314.0	1319.6	1326.3
20°	1259.5	1271.8	1275.2	1291.8	1278.5	1306.3	1302.9	1315.2	1308.5	1312.9	1319.6
22.5°	1239.5	1251.8	1256.3	1271.8	1259.5	1285.1	1284.1	1295.2	1286.3	1291.8	1297.4
25°	1204.0	1217.3	1219.6	1234.0	1220.7	1247.4	1245.2	1257.4	1250.7	1254.0	1261.8
27.5°	1152.9	1168.6	1171.9	1184.0	1174.1	1196.3	1196.3	1206.2	1198.5	1198.5	1206.2
30°	1091.9	1107.4	1109.7	1119.6	1110.7	1130.7	1131.9	1141.8	1129.7	1136.3	1137.4
32.5°	1017.4	1027.5	1034.0	1043.0	1029.7	1055.2	1051.9	1059.6	1053.0	1053.0	1058.6
35°	927.4	939.7	943.1	954.2	943.1	963.0	963.0	967.5	960.8	960.8	969.6
37.5°	829.7	838.6	839.8	850.9	842.0	858.6	857.5	860.8	854.1	858.6	858.6
40°	715.3	721.9	724.2	729.8	728.7	740.9	739.8	742.0	738.7	739.8	742.0
42.5°	582.0	590.9	595.3	599.8	593.1	609.8	606.4	609.8	608.7	609.8	613.1
45°	428.8	435.4	438.7	439.9	437.6	447.6	455.4	448.8	449.8	447.6	452.1
47.5°	309.9	311.1	308.7	315.5	309.9	314.3	316.5	317.7	311.1	309.9	314.3
50°	212.2	217.8	209.9	213.2	212.2	216.6	214.4	215.5	208.8	212.2	209.9
52.5°	141.1	139.9	137.7	138.9	136.6	136.6	136.6	138.9	134.4	132.2	130.0
55°	85.6	83.2	78.9	77.7	77.7	78.9	76.7	74.5	74.5	73.3	73.3
57.5°	49.9	46.6	44.4	43.4	41.0	40.0	38.8	38.8	36.7	36.7	36.7
60°	27.7	24.4	22.2	20.0	20.0	18.8	17.8	16.6	16.6	16.6	15.5
62.5°	14.5	12.3	9.9	8.9	8.9	7.7	6.7	6.7	6.7	6.7	5.5
65°	9.9	7.7	6.7	5.5	5.5	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	7.7	6.7	5.5	4.4	4.4	4.4	3.4	3.4	3.4	3.4	3.4
70°	6.7	4.4	4.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	4.4	4.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P844179

CATALOG NUMBER: LD6C20DE010B50 EU6C20B50 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8	1161.8
2.5°	1179.7	1178.5	1179.7	1181.8	1177.4	1190.8	1184.0	1190.8
5°	1205.2	1206.2	1207.4	1210.8	1205.2	1221.9	1213.0	1222.9
7.5°	1238.5	1239.5	1240.7	1244.1	1240.7	1257.4	1247.4	1256.3
10°	1273.0	1275.2	1275.2	1280.7	1277.4	1292.9	1286.3	1297.4
12.5°	1305.1	1307.3	1309.6	1312.9	1310.7	1327.3	1321.8	1330.7
15°	1330.7	1335.2	1336.2	1340.7	1338.4	1356.2	1349.5	1358.4
17.5°	1342.9	1347.3	1347.3	1352.9	1350.7	1369.5	1360.6	1370.7
20°	1336.2	1339.6	1340.7	1346.3	1344.0	1362.9	1354.0	1366.3
22.5°	1315.2	1316.2	1317.4	1322.9	1321.8	1338.4	1330.7	1338.4
25°	1276.2	1279.6	1278.5	1282.9	1282.9	1296.2	1287.4	1294.0
27.5°	1220.7	1224.1	1224.1	1229.6	1225.2	1238.5	1229.6	1239.5
30°	1152.9	1156.3	1154.1	1158.5	1154.1	1167.4	1160.8	1164.0
32.5°	1071.9	1071.9	1073.0	1074.1	1071.9	1084.1	1077.4	1084.1
35°	975.2	977.5	978.6	979.7	977.5	986.3	978.6	983.0
37.5°	866.4	871.9	870.9	871.9	868.6	879.7	873.1	875.3
40°	749.8	749.8	748.6	750.9	747.5	756.4	752.0	754.2
42.5°	614.3	617.6	613.1	618.7	609.8	622.0	617.6	614.3
45°	461.0	456.5	455.4	456.5	453.2	454.3	457.6	455.4
47.5°	314.3	314.3	312.1	308.7	313.3	314.3	309.9	309.9
50°	211.0	211.0	208.8	207.7	209.9	208.8	206.7	209.9
52.5°	134.4	130.0	130.0	132.2	130.0	127.8	131.0	128.8
55°	73.3	71.1	71.1	73.3	71.1	71.1	70.0	72.1
57.5°	35.5	36.7	35.5	35.5	35.5	35.5	34.5	35.5
60°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
62.5°	6.7	6.7	5.5	5.5	5.5	5.5	5.5	5.5
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	3.4	3.4	3.4	3.4	3.4	4.4	3.4	3.4
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	3.4	3.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.2	2.2	2.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)