

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: P844162

Luminaire Tested: **LD6C20DE010B40 EU6C20B40 6LBSWLI**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P844162  
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: LD6C20DE010B40 EU6C20B40 6LBSWLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

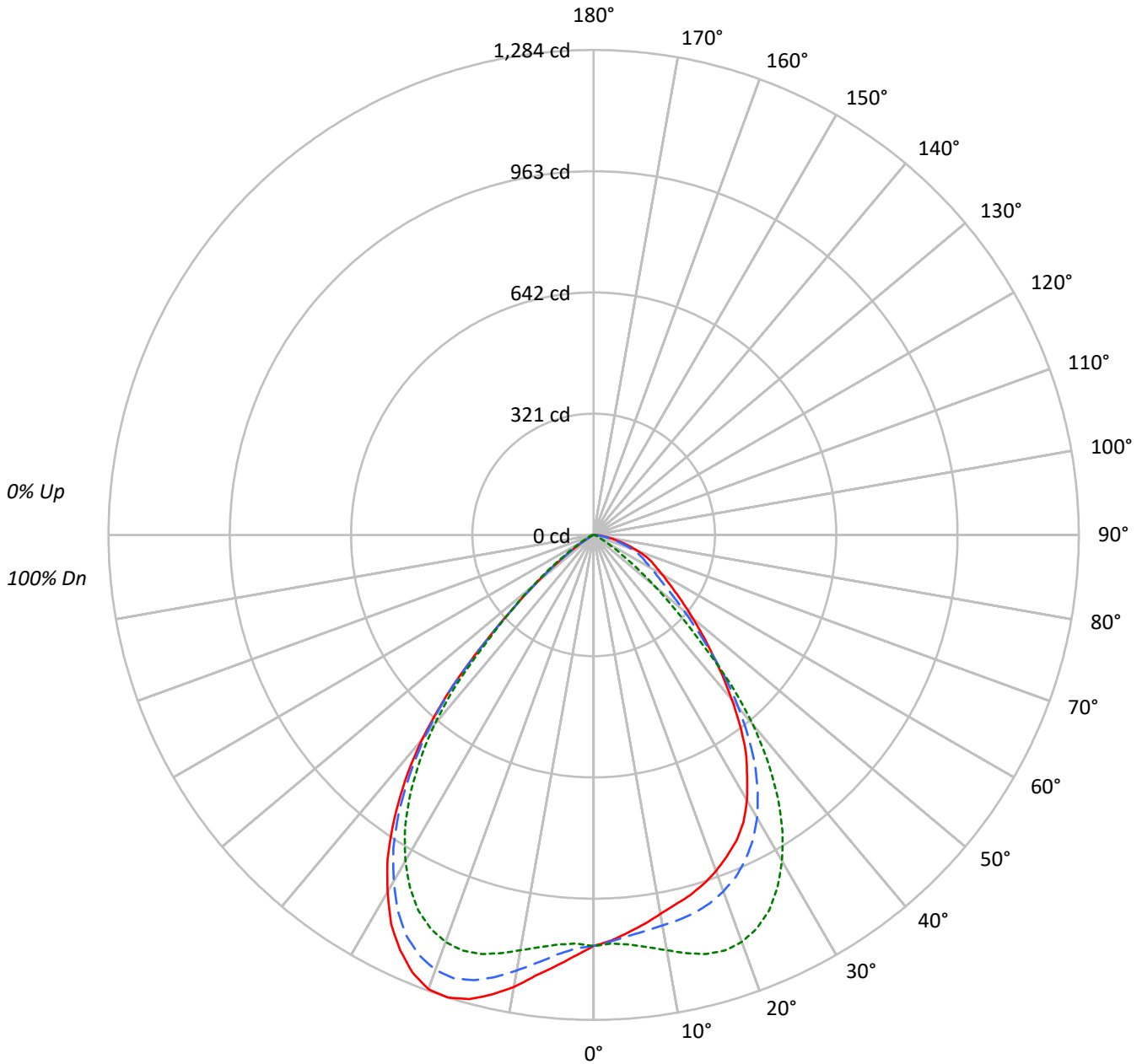
Lumens per Lamp: N/A  
Luminaire Lumens: 1989.4 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	59666	59666	59666
5°	58122	59894	63042
10°	56701	62145	67651
15°	56039	65193	72219
20°	55235	66897	74661
25°	54064	66397	73323
30°	51375	63098	69023
35°	47007	56891	61629
40°	40662	46988	50559
45°	34283	30817	33065
50°	29108	17842	16776
55°	25261	8554	6461
60°	22816	3991	1601
65°	22129	2296	532
70°	19843	1827	513
75°	16309	1313	233
80°	12154	663	0
85°	10504	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.1	5.3
10°-20°	320.4	16.1
20°-30°	489.5	24.6
30°-40°	512.0	25.7
40°-50°	332.1	16.7
50°-60°	131.9	6.6
60°-70°	62.6	3.1
70°-80°	29.8	1.5
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°	915.0	46.0
0°-40°	1427.0	71.7
0°-60°	1891.0	95.1
0°-90°	1989.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1989.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1056	1066	1088	1115	1146	100
15°	987	1035	1149	1220	1272	278
25°	894	950	1098	1172	1212	409
35°	702	745	850	900	921	434
45°	442	438	398	421	426	344
55°	264	225	90	70	68	239
65°	171	142	18	4	4	167
75°	77	62	6	2	1	83
85°	17	10	0	0	0	19
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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1074.9	1076.9	1065.5	1062.4	1070.6	1073.8	1074.9	1071.7	1072.8	1076.9	1076.9
5°	1056.2	1058.2	1047.8	1044.6	1053.0	1055.1	1058.2	1057.2	1060.3	1066.5	1065.5
7.5°	1038.4	1041.6	1030.1	1025.9	1036.4	1041.6	1043.7	1043.7	1047.8	1056.2	1057.2
10°	1018.6	1022.8	1012.4	1010.4	1021.8	1027.0	1028.0	1030.1	1036.4	1047.8	1049.8
12.5°	1002.0	1006.1	998.9	995.8	1008.2	1013.4	1015.5	1019.7	1027.0	1041.6	1043.7
15°	987.4	990.6	982.2	980.1	992.6	998.9	999.9	1006.1	1015.5	1032.1	1035.3
17.5°	968.7	970.8	964.6	962.4	974.9	981.2	982.2	989.5	1000.9	1017.7	1022.8
20°	946.8	948.9	942.7	940.7	953.1	960.3	961.4	967.6	981.2	998.9	1004.1
22.5°	920.9	925.0	917.7	915.6	928.2	934.3	937.5	942.7	956.2	973.9	981.2
25°	893.8	893.8	888.6	887.6	899.0	906.3	905.2	912.5	926.1	943.7	950.0
27.5°	858.4	857.3	852.1	851.2	863.7	869.9	867.8	875.1	887.6	905.2	911.5
30°	811.6	813.6	806.4	804.3	814.7	825.2	824.1	831.3	843.8	860.5	864.7
32.5°	755.4	757.5	756.4	753.4	762.7	767.8	771.0	776.2	786.6	804.3	808.5
35°	702.4	699.2	695.1	695.1	704.4	712.7	709.6	715.9	726.3	743.9	745.0
37.5°	636.8	635.7	633.6	631.6	642.0	644.1	645.2	649.3	658.7	673.2	671.2
40°	568.2	569.1	568.2	563.9	570.2	578.5	577.5	579.6	587.8	598.3	595.1
42.5°	503.5	503.5	503.5	499.4	506.7	510.9	513.0	511.9	514.0	523.4	519.2
45°	442.2	443.3	442.2	441.1	442.2	444.3	442.2	441.1	441.1	444.3	438.1
47.5°	389.2	389.2	386.0	382.9	386.0	387.1	383.9	380.9	379.8	378.7	368.4
50°	341.3	340.2	339.2	334.0	337.1	338.1	334.0	331.9	327.8	322.6	310.1
52.5°	299.7	298.7	297.6	292.3	294.4	295.5	291.4	287.1	282.0	277.8	262.2
55°	264.3	263.2	263.2	260.2	258.1	260.2	255.9	252.9	245.6	240.4	224.7
57.5°	234.1	234.1	232.0	228.9	229.9	229.9	225.8	221.6	215.3	209.2	196.7
60°	208.1	208.1	208.1	205.0	205.0	205.0	202.9	198.7	193.5	187.3	174.8
62.5°	187.3	187.3	186.2	183.2	184.1	184.1	182.1	177.9	172.7	168.6	156.1
65°	170.6	170.6	170.6	167.5	167.5	168.6	166.5	162.3	158.1	152.9	141.5
67.5°	149.9	148.8	148.8	146.7	147.8	148.8	146.7	143.6	138.4	135.3	124.9
70°	123.8	124.9	125.9	122.8	123.8	123.8	122.8	119.6	116.6	113.4	104.1
72.5°	100.9	100.9	99.8	98.9	98.9	99.8	97.8	94.7	92.6	90.5	83.2
75°	77.0	75.9	77.0	74.9	74.9	74.9	72.9	71.8	70.8	67.6	62.4
77.5°	56.2	55.1	55.1	53.1	54.2	54.2	53.1	51.0	48.9	47.9	43.7
80°	38.5	38.5	38.5	37.4	37.4	36.4	36.4	35.4	33.3	32.3	30.1
82.5°	26.0	26.0	26.0	25.0	25.0	25.0	23.9	22.8	21.9	20.8	18.7
85°	16.7	16.7	16.7	15.7	15.7	15.7	14.6	14.6	13.5	12.5	10.4
87.5°	9.3	9.3	9.3	8.4	8.4	8.4	8.4	8.4	7.3	6.2	5.2
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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1084.2	1069.6	1079.0	1079.0	1075.9	1084.2	1089.5	1093.6	1092.5	1083.1	1082.1
5°	1075.9	1063.3	1073.8	1074.9	1071.7	1083.1	1090.4	1095.6	1096.7	1088.4	1089.5
7.5°	1069.6	1059.2	1072.8	1076.9	1075.9	1086.3	1094.7	1102.9	1107.1	1100.9	1101.9
10°	1066.5	1058.2	1072.8	1079.0	1080.1	1091.5	1104.0	1115.4	1120.7	1116.4	1119.6
12.5°	1062.4	1057.2	1073.8	1083.1	1087.4	1098.8	1114.3	1127.9	1136.2	1134.2	1140.3
15°	1058.2	1054.0	1073.8	1087.4	1092.5	1102.9	1120.7	1140.3	1149.8	1148.7	1157.1
17.5°	1047.8	1046.7	1067.6	1082.1	1089.5	1101.9	1118.6	1142.5	1151.9	1153.9	1164.3
20°	1031.2	1031.2	1054.0	1069.6	1077.9	1089.5	1110.2	1133.1	1144.6	1146.7	1158.1
22.5°	1008.2	1010.4	1032.1	1047.8	1060.3	1068.5	1090.4	1114.3	1124.8	1127.9	1140.3
25°	978.1	980.1	1000.9	1016.6	1030.1	1039.4	1060.3	1082.1	1094.7	1097.7	1107.1
27.5°	938.5	942.7	962.4	978.1	989.5	995.8	1017.7	1040.5	1049.8	1053.0	1062.4
30°	892.7	893.8	913.6	927.1	938.5	943.7	962.4	986.5	993.6	996.8	1010.4
32.5°	836.6	835.5	854.3	866.7	876.0	882.4	902.1	917.7	925.0	930.2	937.5
35°	768.9	767.8	781.4	796.0	803.3	805.4	825.2	841.8	845.9	850.1	859.4
37.5°	693.0	693.0	704.4	711.7	720.0	723.1	732.5	751.2	758.5	757.5	764.8
40°	612.9	608.7	617.0	624.3	626.4	627.4	636.8	651.3	656.6	656.6	661.8
42.5°	528.6	522.4	523.4	527.5	529.6	522.4	528.6	537.9	534.8	539.0	540.0
45°	439.1	429.7	425.6	416.2	418.3	411.0	406.9	408.9	407.9	397.5	399.6
47.5°	366.3	349.7	342.4	328.8	325.6	317.4	312.1	302.8	294.4	294.4	289.3
50°	304.9	288.2	273.6	258.1	252.9	245.6	234.1	221.6	215.3	209.2	203.9
52.5°	255.9	238.3	220.5	203.9	196.7	187.3	171.7	159.2	147.8	141.5	135.3
55°	216.4	196.7	177.9	160.2	150.9	141.5	125.9	111.4	97.8	89.5	84.3
57.5°	186.2	167.5	147.8	129.0	120.7	110.3	93.7	78.1	65.6	56.2	51.0
60°	164.4	145.6	128.0	108.2	99.8	89.5	71.8	57.2	44.7	36.4	30.1
62.5°	145.6	129.0	110.3	92.6	84.3	73.8	57.2	42.6	31.2	22.8	17.7
65°	132.1	115.5	99.8	82.2	74.9	64.5	48.9	35.4	25.0	17.7	12.5
67.5°	116.6	102.0	86.3	71.8	64.5	56.2	41.6	30.1	20.8	14.6	10.4
70°	97.8	86.3	72.9	59.3	54.2	46.9	34.4	25.0	16.7	11.4	8.4
72.5°	78.1	68.6	58.3	47.9	43.7	36.4	28.0	19.8	12.5	8.4	6.2
75°	59.3	52.0	43.7	36.4	32.3	28.0	20.8	14.6	9.3	6.2	4.1
77.5°	40.6	37.4	31.2	25.0	22.8	19.8	13.5	9.3	6.2	4.1	2.1
80°	28.0	25.0	20.8	16.7	14.6	12.5	8.4	6.2	3.2	2.1	1.1
82.5°	17.7	14.6	12.5	10.4	9.3	7.3	5.2	3.2	2.1	1.1	1.1
85°	9.3	8.4	7.3	5.2	5.2	4.1	3.2	2.1	1.1	0.0	0.0
87.5°	5.2	4.1	3.2	2.1	2.1	1.1	1.1	1.1	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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1094.7	1094.7	1093.6	1106.1	1091.5	1106.1	1098.8	1106.1	1095.6	1094.7	1095.6
5°	1102.9	1106.1	1107.1	1118.6	1105.0	1122.7	1116.4	1122.7	1115.4	1117.5	1120.7
7.5°	1119.6	1124.8	1123.7	1138.3	1124.8	1144.6	1140.3	1149.8	1142.5	1144.6	1148.7
10°	1138.3	1144.6	1145.6	1160.1	1147.6	1171.5	1166.4	1176.8	1170.6	1173.7	1178.9
12.5°	1160.1	1167.4	1168.5	1185.1	1171.5	1196.6	1193.4	1203.9	1198.6	1201.8	1208.0
15°	1176.8	1187.2	1189.3	1205.9	1191.4	1217.3	1215.3	1228.9	1220.5	1225.7	1230.9
17.5°	1185.1	1194.5	1198.6	1214.3	1201.8	1227.8	1225.7	1237.2	1230.9	1236.2	1242.4
20°	1179.9	1191.4	1194.5	1210.1	1197.7	1223.7	1220.5	1231.9	1225.7	1229.8	1236.2
22.5°	1161.2	1172.6	1176.8	1191.4	1179.9	1203.9	1202.8	1213.2	1204.9	1210.1	1215.3
25°	1127.9	1140.3	1142.5	1156.0	1143.5	1168.5	1166.4	1177.9	1171.5	1174.7	1182.0
27.5°	1080.1	1094.7	1097.7	1109.1	1099.8	1120.7	1120.7	1130.0	1122.7	1122.7	1130.0
30°	1022.8	1037.3	1039.4	1048.9	1040.5	1059.2	1060.3	1069.6	1058.2	1064.4	1065.5
32.5°	953.1	962.4	968.7	977.0	964.6	988.5	985.4	992.6	986.5	986.5	991.6
35°	868.8	880.3	883.4	893.8	883.4	902.1	902.1	906.3	900.0	900.0	908.4
37.5°	777.3	785.6	786.6	797.0	788.7	804.3	803.3	806.4	800.1	804.3	804.3
40°	670.1	676.4	678.4	683.7	682.6	694.0	693.0	695.1	691.9	693.0	695.1
42.5°	545.2	553.6	557.7	561.8	555.7	571.2	568.2	571.2	570.2	571.2	574.4
45°	401.6	407.9	411.0	412.1	409.9	419.4	426.5	420.4	421.4	419.4	423.5
47.5°	290.3	291.4	289.3	295.5	290.3	294.4	296.6	297.6	291.4	290.3	294.4
50°	198.7	203.9	196.7	199.8	198.7	202.9	200.8	201.9	195.7	198.7	196.7
52.5°	132.1	131.0	129.0	130.1	128.0	128.0	128.0	130.1	125.9	123.8	121.7
55°	80.2	78.1	73.8	72.9	72.9	73.8	71.8	69.7	69.7	68.6	68.6
57.5°	46.9	43.7	41.6	40.6	38.5	37.4	36.4	36.4	34.4	34.4	34.4
60°	26.0	22.8	20.8	18.7	18.7	17.7	16.7	15.7	15.7	15.7	14.6
62.5°	13.5	11.4	9.3	8.4	8.4	7.3	6.2	6.2	6.2	6.2	5.2
65°	9.3	7.3	6.2	5.2	5.2	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	7.3	6.2	5.2	4.1	4.1	4.1	3.2	3.2	3.2	3.2	3.2
70°	6.2	4.1	4.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	4.1	4.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	1.1	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: P844162

CATALOG NUMBER: LD6C20DE010B40 EU6C20B40 6LBSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1105.0	1104.0	1105.0	1107.1	1102.9	1115.4	1109.1	1115.4
5°	1128.9	1130.0	1131.0	1134.2	1128.9	1144.6	1136.2	1145.6
7.5°	1160.1	1161.2	1162.2	1165.4	1162.2	1177.9	1168.5	1176.8
10°	1192.5	1194.5	1194.5	1199.7	1196.6	1211.1	1204.9	1215.3
12.5°	1222.6	1224.6	1226.7	1229.8	1227.8	1243.4	1238.2	1246.5
15°	1246.5	1250.7	1251.7	1255.8	1253.8	1270.4	1264.2	1272.5
17.5°	1257.9	1262.1	1262.1	1267.4	1265.2	1282.9	1274.6	1284.0
20°	1251.7	1254.9	1255.8	1261.1	1259.0	1276.7	1268.4	1279.8
22.5°	1231.9	1233.0	1234.0	1239.2	1238.2	1253.8	1246.5	1253.8
25°	1195.5	1198.6	1197.7	1201.8	1201.8	1214.3	1205.9	1212.2
27.5°	1143.5	1146.7	1146.7	1151.9	1147.6	1160.1	1151.9	1161.2
30°	1080.1	1083.1	1081.1	1085.2	1081.1	1093.6	1087.4	1090.4
32.5°	1004.1	1004.1	1005.1	1006.1	1004.1	1015.5	1009.3	1015.5
35°	913.6	915.6	916.7	917.7	915.6	923.9	916.7	920.9
37.5°	811.6	816.8	815.8	816.8	813.6	824.1	817.9	820.0
40°	702.4	702.4	701.3	703.4	700.3	708.6	704.4	706.5
42.5°	575.4	578.5	574.4	579.6	571.2	582.7	578.5	575.4
45°	431.8	427.6	426.5	427.6	424.5	425.6	428.7	426.5
47.5°	294.4	294.4	292.3	289.3	293.4	294.4	290.3	290.3
50°	197.7	197.7	195.7	194.6	196.7	195.7	193.5	196.7
52.5°	125.9	121.7	121.7	123.8	121.7	119.6	122.8	120.7
55°	68.6	66.6	66.6	68.6	66.6	66.6	65.6	67.6
57.5°	33.3	34.4	33.3	33.3	33.3	33.3	32.3	33.3
60°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
62.5°	6.2	6.2	5.2	5.2	5.2	5.2	5.2	5.2
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	3.2	3.2	3.2	3.2	3.2	4.1	3.2	3.2
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	3.2	3.2	4.1	4.1	4.1	4.1	4.1	4.1
75°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1
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)