

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: P844128

Luminaire Tested: **LD6C20DE010B2750 EU6C20B30 6LBSWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844128
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: LD6C20DE010B2750 EU6C20B30 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

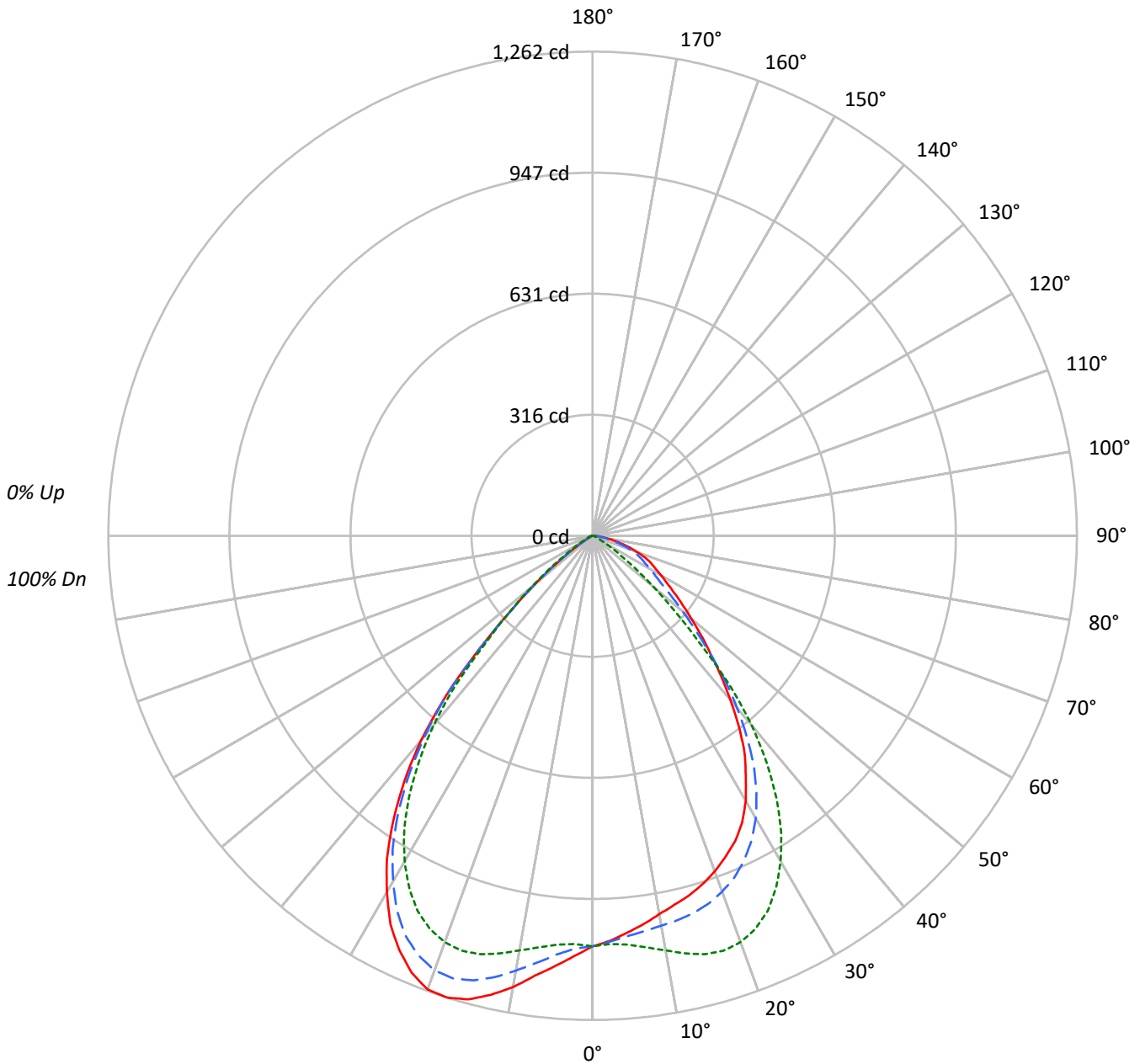
Lumens per Lamp: N/A
Luminaire Lumens: 1955.5 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	58652	58652	58652
5°	57132	58876	61969
10°	55738	61088	66498
15°	55085	64081	70994
20°	54296	65753	73396
25°	53144	65266	72071
30°	50501	62029	67852
35°	46204	55921	60572
40°	39961	46187	49693
45°	33701	30290	32515
50°	28613	17535	16486
55°	24831	8411	6346
60°	22421	3914	1568
65°	21753	2244	532
70°	19506	1795	497
75°	16034	1292	233
80°	11965	631	0
85°	10315	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	5.3
10°-20°	314.9	16.1
20°-30°	481.2	24.6
30°-40°	503.3	25.7
40°-50°	326.5	16.7
50°-60°	129.6	6.6
60°-70°	61.5	3.1
70°-80°	29.2	1.5
80°-90°	6.0	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°	899.5	46.0
0°-40°	1402.7	71.7
0°-60°	1858.8	95.1
0°-90°	1955.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1038	1047	1070	1096	1126	98
15°	971	1018	1129	1200	1251	274
25°	879	934	1079	1152	1192	402
35°	690	732	836	885	905	427
45°	435	431	391	414	419	338
55°	260	221	88	68	66	235
65°	168	139	17	4	4	164
75°	76	61	6	2	1	82
85°	16	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°	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	1056.6	1058.6	1047.4	1044.3	1052.5	1055.5	1056.6	1053.5	1054.5	1058.6	1058.6
5°	1038.2	1040.2	1029.9	1026.9	1035.1	1037.1	1040.2	1039.1	1042.3	1048.3	1047.4
7.5°	1020.7	1023.8	1012.6	1008.5	1018.7	1023.8	1025.9	1025.9	1029.9	1038.2	1039.1
10°	1001.3	1005.4	995.2	993.1	1004.4	1009.5	1010.6	1012.6	1018.7	1029.9	1031.9
12.5°	985.0	989.0	981.9	978.8	991.1	996.2	998.2	1002.3	1009.5	1023.8	1025.9
15°	970.6	973.7	965.5	963.5	975.8	981.9	982.9	989.0	998.2	1014.6	1017.7
17.5°	952.2	954.3	948.2	946.1	958.3	964.5	965.5	972.7	983.9	1000.3	1005.4
20°	930.7	932.8	926.7	924.6	936.9	944.0	945.1	951.2	964.5	981.9	987.0
22.5°	905.1	909.2	902.2	900.0	912.3	918.4	921.5	926.7	939.9	957.4	964.5
25°	878.6	878.6	873.5	872.4	883.8	890.8	889.8	897.0	910.3	927.7	933.8
27.5°	843.8	842.7	837.6	836.7	849.0	855.1	853.0	860.2	872.4	889.8	896.0
30°	797.8	799.8	792.7	790.6	800.8	811.1	810.0	817.2	829.5	845.9	849.9
32.5°	742.6	744.6	743.6	740.6	749.7	754.8	757.9	763.0	773.2	790.6	794.7
35°	690.4	687.4	683.2	683.2	692.4	700.6	697.5	703.6	713.9	731.2	732.3
37.5°	625.9	625.0	622.8	620.8	631.1	633.1	634.2	638.2	647.5	661.8	659.8
40°	558.4	559.5	558.4	554.3	560.4	568.7	567.6	569.7	577.9	588.0	585.1
42.5°	495.0	495.0	495.0	491.0	498.1	502.2	504.3	503.2	505.2	514.4	510.3
45°	434.7	435.7	434.7	433.6	434.7	436.7	434.7	433.6	433.6	436.7	430.6
47.5°	382.5	382.5	379.5	376.4	379.5	380.4	377.5	374.4	373.3	372.3	362.1
50°	335.5	334.4	333.5	328.3	331.4	332.4	328.3	326.3	322.2	317.1	304.8
52.5°	294.6	293.5	292.5	287.4	289.5	290.4	286.4	282.3	277.2	273.1	257.7
55°	259.8	258.8	258.8	255.7	253.6	255.7	251.6	248.5	241.4	236.3	220.9
57.5°	230.1	230.1	228.0	225.0	226.0	226.0	222.0	217.9	211.7	205.6	193.3
60°	204.5	204.5	204.5	201.5	201.5	201.5	199.5	195.3	190.3	184.1	171.9
62.5°	184.1	184.1	183.1	180.0	181.1	181.1	179.0	174.9	169.8	165.7	153.5
65°	167.7	167.7	167.7	164.7	164.7	165.7	163.6	159.6	155.5	150.4	139.1
67.5°	147.2	146.3	146.3	144.2	145.2	146.3	144.2	141.2	136.0	132.9	122.8
70°	121.7	122.8	123.7	120.7	121.7	121.7	120.7	117.6	114.5	111.5	102.3
72.5°	99.2	99.2	98.1	97.2	97.2	98.1	96.1	93.1	91.1	88.9	81.8
75°	75.7	74.7	75.7	73.6	73.6	73.6	71.6	70.5	69.6	66.4	61.3
77.5°	55.2	54.3	54.3	52.1	53.2	53.2	52.1	50.1	48.0	47.1	42.9
80°	37.9	37.9	37.9	36.8	36.8	35.7	35.7	34.8	32.7	31.7	29.7
82.5°	25.6	25.6	25.6	24.5	24.5	24.5	23.5	22.5	21.5	20.4	18.4
85°	16.4	16.4	16.4	15.3	15.3	15.3	14.3	14.3	13.3	12.3	10.3
87.5°	9.2	9.2	9.2	8.1	8.1	8.1	8.1	8.1	7.2	6.1	5.1
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°	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	1065.8	1051.4	1060.6	1060.6	1057.6	1065.8	1070.9	1075.0	1073.9	1064.7	1063.7
5°	1057.6	1045.3	1055.5	1056.6	1053.5	1064.7	1071.9	1077.0	1078.0	1069.9	1070.9
7.5°	1051.4	1041.2	1054.5	1058.6	1057.6	1067.8	1076.0	1084.2	1088.3	1082.1	1083.1
10°	1048.3	1040.2	1054.5	1060.6	1061.7	1073.0	1085.2	1096.4	1101.5	1097.4	1100.6
12.5°	1044.3	1039.1	1055.5	1064.7	1068.8	1080.1	1095.4	1108.7	1116.9	1114.9	1121.0
15°	1040.2	1036.1	1055.5	1068.8	1073.9	1084.2	1101.5	1121.0	1130.2	1129.1	1137.4
17.5°	1029.9	1029.0	1049.4	1063.7	1070.9	1083.1	1099.5	1123.0	1132.2	1134.3	1144.5
20°	1013.6	1013.6	1036.1	1051.4	1059.6	1070.9	1091.4	1113.8	1125.1	1127.1	1138.4
22.5°	991.1	993.1	1014.6	1029.9	1042.3	1050.4	1071.9	1095.4	1105.7	1108.7	1121.0
25°	961.5	963.5	983.9	999.3	1012.6	1021.8	1042.3	1063.7	1076.0	1079.0	1088.3
27.5°	922.6	926.7	946.1	961.5	972.7	978.8	1000.3	1022.8	1031.9	1035.1	1044.3
30°	877.5	878.6	898.0	911.4	922.6	927.7	946.1	969.6	976.8	979.9	993.1
32.5°	822.3	821.4	839.8	852.0	861.2	867.4	886.7	902.2	909.2	914.4	921.5
35°	755.9	754.8	768.2	782.4	789.6	791.6	811.1	827.4	831.5	835.6	844.8
37.5°	681.2	681.2	692.4	699.6	707.8	710.8	720.0	738.4	745.6	744.6	751.8
40°	602.4	598.3	606.6	613.7	615.8	616.7	625.9	640.3	645.4	645.4	650.4
42.5°	519.6	513.5	514.4	518.6	520.6	513.5	519.6	528.8	525.7	529.8	530.8
45°	431.6	422.4	418.3	409.1	411.2	404.0	399.9	401.9	400.9	390.7	392.8
47.5°	360.0	343.6	336.4	323.2	320.1	312.0	306.8	297.6	289.5	289.5	284.3
50°	299.7	283.3	269.0	253.6	248.5	241.4	230.1	217.9	211.7	205.6	200.5
52.5°	251.6	234.3	216.8	200.5	193.3	184.1	168.8	156.5	145.2	139.1	132.9
55°	212.7	193.3	174.9	157.5	148.3	139.1	123.7	109.5	96.1	88.0	82.8
57.5°	183.1	164.7	145.2	126.8	118.7	108.4	92.1	76.7	64.4	55.2	50.1
60°	161.6	143.2	125.9	106.4	98.1	88.0	70.5	56.3	44.0	35.7	29.7
62.5°	143.2	126.8	108.4	91.1	82.8	72.7	56.3	42.0	30.7	22.5	17.3
65°	129.9	113.5	98.1	80.8	73.6	63.5	48.0	34.8	24.5	17.3	12.3
67.5°	114.5	100.3	84.9	70.5	63.5	55.2	40.9	29.7	20.4	14.3	10.3
70°	96.1	84.9	71.6	58.3	53.2	46.0	33.7	24.5	16.4	11.2	8.1
72.5°	76.7	67.5	57.3	47.1	42.9	35.7	27.6	19.5	12.3	8.1	6.1
75°	58.3	51.1	42.9	35.7	31.7	27.6	20.4	14.3	9.2	6.1	4.1
77.5°	39.9	36.8	30.7	24.5	22.5	19.5	13.3	9.2	6.1	4.1	2.0
80°	27.6	24.5	20.4	16.4	14.3	12.3	8.1	6.1	3.1	2.0	1.1
82.5°	17.3	14.3	12.3	10.3	9.2	7.2	5.1	3.1	2.0	1.1	1.1
85°	9.2	8.1	7.2	5.1	5.1	4.1	3.1	2.0	1.1	0.0	0.0
87.5°	5.1	4.1	3.1	2.0	2.0	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°	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	1076.0	1076.0	1075.0	1087.2	1073.0	1087.2	1080.1	1087.2	1077.0	1076.0	1077.0
5°	1084.2	1087.2	1088.3	1099.5	1086.2	1103.6	1097.4	1103.6	1096.4	1098.5	1101.5
7.5°	1100.6	1105.7	1104.6	1119.0	1105.7	1125.1	1121.0	1130.2	1123.0	1125.1	1129.1
10°	1119.0	1125.1	1126.1	1140.4	1128.2	1151.7	1146.6	1156.7	1150.7	1153.8	1158.8
12.5°	1140.4	1147.5	1148.6	1165.0	1151.7	1176.2	1173.1	1183.4	1178.3	1181.4	1187.5
15°	1156.7	1167.0	1169.1	1185.4	1171.1	1196.7	1194.6	1207.9	1199.8	1204.9	1209.9
17.5°	1165.0	1174.2	1178.3	1193.6	1181.4	1206.9	1204.9	1216.2	1209.9	1215.1	1221.2
20°	1159.8	1171.1	1174.2	1189.5	1177.3	1202.8	1199.8	1211.0	1204.9	1209.0	1215.1
22.5°	1141.4	1152.7	1156.7	1171.1	1159.8	1183.4	1182.3	1192.6	1184.4	1189.5	1194.6
25°	1108.7	1121.0	1123.0	1136.3	1124.1	1148.6	1146.6	1157.8	1151.7	1154.7	1161.9
27.5°	1061.7	1076.0	1079.0	1090.3	1081.1	1101.5	1101.5	1110.7	1103.6	1103.6	1110.7
30°	1005.4	1019.8	1021.8	1031.0	1022.8	1041.2	1042.3	1051.4	1040.2	1046.3	1047.4
32.5°	936.9	946.1	952.2	960.4	948.2	971.6	968.6	975.8	969.6	969.6	974.7
35°	854.0	865.3	868.4	878.6	868.4	886.7	886.7	890.8	884.7	884.7	892.9
37.5°	764.0	772.2	773.2	783.5	775.2	790.6	789.6	792.7	786.6	790.6	790.6
40°	658.7	664.8	666.8	672.0	671.0	682.2	681.2	683.2	680.2	681.2	683.2
42.5°	536.0	544.2	548.3	552.3	546.2	561.5	558.4	561.5	560.4	561.5	564.6
45°	394.8	400.9	404.0	405.1	403.0	412.2	419.4	413.2	414.2	412.2	416.3
47.5°	285.3	286.4	284.3	290.4	285.3	289.5	291.5	292.5	286.4	285.3	289.5
50°	195.3	200.5	193.3	196.4	195.3	199.5	197.4	198.4	192.3	195.3	193.3
52.5°	129.9	128.8	126.8	127.9	125.9	125.9	125.9	127.9	123.7	121.7	119.6
55°	78.8	76.7	72.7	71.6	71.6	72.7	70.5	68.5	68.5	67.5	67.5
57.5°	46.0	42.9	40.9	39.9	37.9	36.8	35.7	35.7	33.7	33.7	33.7
60°	25.6	22.5	20.4	18.4	18.4	17.3	16.4	15.3	15.3	15.3	14.3
62.5°	13.3	11.2	9.2	8.1	8.1	7.2	6.1	6.1	6.1	6.1	5.1
65°	9.2	7.2	6.1	5.1	5.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	7.2	6.1	5.1	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1
70°	6.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	4.1	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	3.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P844128

CATALOG NUMBER: LD6C20DE010B2750 EU6C20B30 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	1086.2	1085.2	1086.2	1088.3	1084.2	1096.4	1090.3	1096.4
5°	1109.8	1110.7	1111.8	1114.9	1109.8	1125.1	1116.9	1126.1
7.5°	1140.4	1141.4	1142.5	1145.5	1142.5	1157.8	1148.6	1156.7
10°	1172.2	1174.2	1174.2	1179.3	1176.2	1190.5	1184.4	1194.6
12.5°	1201.8	1203.8	1205.9	1209.0	1206.9	1222.2	1217.1	1225.3
15°	1225.3	1229.4	1230.5	1234.5	1232.5	1248.9	1242.7	1250.9
17.5°	1236.6	1240.6	1240.6	1245.8	1243.8	1261.1	1252.9	1262.2
20°	1230.5	1233.5	1234.5	1239.7	1237.5	1255.0	1246.8	1258.1
22.5°	1211.0	1212.0	1213.0	1218.2	1217.1	1232.5	1225.3	1232.5
25°	1175.1	1178.3	1177.3	1181.4	1181.4	1193.6	1185.4	1191.5
27.5°	1124.1	1127.1	1127.1	1132.2	1128.2	1140.4	1132.2	1141.4
30°	1061.7	1064.7	1062.7	1066.7	1062.7	1075.0	1068.8	1071.9
32.5°	987.0	987.0	988.0	989.0	987.0	998.2	992.2	998.2
35°	898.0	900.0	901.1	902.2	900.0	908.2	901.1	905.1
37.5°	797.8	803.0	801.9	803.0	799.8	810.0	803.9	806.0
40°	690.4	690.4	689.4	691.4	688.3	696.6	692.4	694.4
42.5°	565.6	568.7	564.6	569.7	561.5	572.7	568.7	565.6
45°	424.4	420.4	419.4	420.4	417.3	418.3	421.4	419.4
47.5°	289.5	289.5	287.4	284.3	288.4	289.5	285.3	285.3
50°	194.3	194.3	192.3	191.2	193.3	192.3	190.3	193.3
52.5°	123.7	119.6	119.6	121.7	119.6	117.6	120.7	118.7
55°	67.5	65.5	65.5	67.5	65.5	65.5	64.4	66.4
57.5°	32.7	33.7	32.7	32.7	32.7	32.7	31.7	32.7
60°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
62.5°	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	3.1	3.1	3.1	3.1	3.1	4.1	3.1	3.1
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	3.1	3.1	4.1	4.1	4.1	4.1	4.1	4.1
75°	2.0	2.0	2.0	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)