

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: CORELITE

Report Number: P395473

Luminaire Tested: **I3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)  
Description: CORELITE I3, CLEAR TOP COVER  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7356.9 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

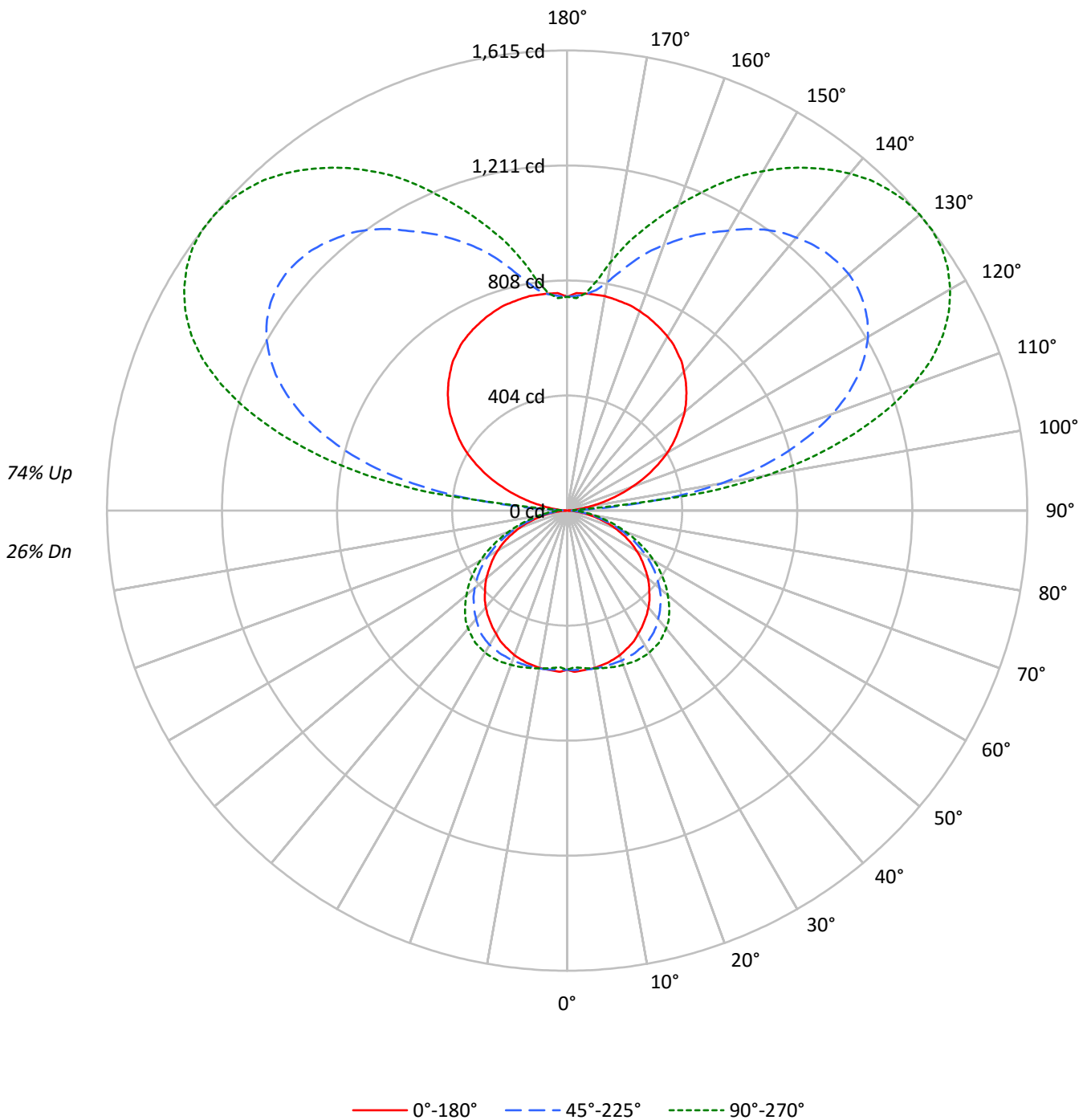
Input Watts (W): 62.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P395473

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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	0
RCR																		
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

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

	0°	45°	90°
0°	3069	3069	3069
5°	3101	3021	2972
10°	3104	2997	2964
15°	3107	2986	2979
20°	3113	2988	3005
25°	3108	2991	3045
30°	3090	2996	3066
35°	3083	2979	3069
40°	3072	2915	3031
45°	3041	2845	2955
50°	3013	2751	2823
55°	2951	2612	2660
60°	2878	2429	2456
65°	2760	2181	2177
70°	2564	1858	1843
75°	2214	1478	1480
80°	1716	1049	1084
85°	1010	650	726



TEST NUMBER: P395473

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	0.7
10°-20°	158.7	2.2
20°-30°	254.4	3.5
30°-40°	325.4	4.4
40°-50°	354.8	4.8
50°-60°	332.4	4.5
60°-70°	257.9	3.5
70°-80°	147.8	2.0
80°-90°	47.3	0.6
90°-100°	189.7	2.6
100°-110°	737.6	10.0
110°-120°	1004.2	13.6
120°-130°	1042.4	14.2
130°-140°	924.7	12.6
140°-150°	717.4	9.8
150°-160°	478.8	6.5
160°-170°	255.2	3.5
170°-180°	74.7	1.0
0°-30°	466.5	6.3
0°-40°	792.0	10.8
0°-60°	1479.2	20.1
0°-90°	1932.2	26.3
90°-120°	1931.6	26.3
90°-150°	4616.0	62.7
90°-180°	5425.0	73.7
0°-180°	7356.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	564	558	560	558	554	54
15°	552	550	562	570	570	156
25°	523	527	554	574	580	241
35°	473	483	527	554	564	296
45°	408	426	463	493	507	315
55°	327	344	376	402	410	292
65°	232	242	263	281	287	228
75°	121	127	139	152	156	129
85°	24	28	42	54	55	29
90°	2	6	14	20	24	3
95°	24	135	184	38	36	31
105°	156	473	802	952	1043	167
115°	327	730	1128	1326	1455	322
125°	473	861	1271	1493	1606	423
135°	592	907	1283	1505	1594	456
145°	675	907	1204	1398	1469	423
155°	727	857	1067	1210	1265	336
165°	756	788	907	992	1018	214
175°	764	760	762	766	766	73
180°	750	750	750	750	750	



TEST NUMBER: P395473

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3
2.5°	566.2	564.2	564.2	560.3	560.3	558.3	558.3	558.3	558.3	558.3	560.3
5°	564.2	564.2	562.2	560.3	560.3	558.3	558.3	558.3	558.3	558.3	560.3
7.5°	562.2	562.2	560.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	562.2
10°	560.3	560.3	558.3	556.3	556.3	556.3	556.3	558.3	558.3	558.3	562.2
12.5°	556.3	554.3	554.3	552.3	552.3	552.3	554.3	554.3	556.3	558.3	562.2
15°	552.3	552.3	550.4	548.4	550.4	550.4	550.4	552.3	554.3	556.3	562.2
17.5°	546.4	546.4	544.4	544.4	544.4	546.4	546.4	548.4	552.3	556.3	560.3
20°	540.5	538.5	538.5	538.5	540.5	540.5	542.4	546.4	548.4	554.3	560.3
22.5°	530.6	532.5	530.6	530.6	532.5	534.5	536.5	540.5	544.4	550.4	556.3
25°	522.6	522.6	522.6	522.6	526.6	526.6	530.6	534.5	540.5	546.4	554.3
27.5°	512.7	512.7	512.7	514.7	516.7	518.7	520.7	526.6	532.5	540.5	548.4
30°	498.9	498.9	498.9	498.9	504.8	506.8	510.8	518.7	524.6	534.5	544.4
32.5°	487.0	487.0	487.0	489.0	492.9	494.9	498.9	508.8	516.7	526.6	536.5
35°	473.1	473.1	475.1	475.1	481.1	483.0	487.0	494.9	502.8	514.7	526.6
37.5°	459.3	459.3	461.3	463.3	467.2	471.2	475.1	483.0	491.0	500.9	512.7
40°	443.5	443.5	445.4	447.4	453.4	457.3	461.3	469.2	477.1	487.0	496.9
42.5°	427.6	427.6	429.6	431.6	437.5	441.5	445.4	455.3	463.3	473.1	481.1
45°	407.8	409.8	411.8	415.7	421.7	425.6	429.6	437.5	447.4	455.3	463.3
47.5°	390.0	392.0	394.0	397.9	403.9	407.8	411.8	419.7	427.6	435.5	445.4
50°	370.2	372.2	374.2	378.1	384.1	388.0	392.0	399.9	407.8	413.8	423.7
52.5°	348.4	350.4	352.4	356.3	364.3	366.2	370.2	378.1	384.1	392.0	399.9
55°	326.7	328.6	330.6	334.6	340.5	344.5	346.4	354.4	360.3	368.2	376.1
57.5°	304.9	306.9	308.8	312.8	316.8	320.7	322.7	328.6	336.5	342.5	350.4
60°	281.1	283.1	285.1	287.1	293.0	295.0	297.0	302.9	308.8	316.8	322.7
62.5°	257.4	257.4	259.3	261.3	267.3	269.2	271.2	275.2	283.1	287.1	293.0
65°	231.6	231.6	233.6	235.6	239.5	241.5	243.5	247.5	253.4	257.4	263.3
67.5°	203.9	203.9	205.9	207.9	211.8	213.8	213.8	219.7	223.7	227.7	231.6
70°	178.2	178.2	180.2	180.2	182.1	184.1	186.1	190.1	192.0	198.0	200.0
72.5°	150.5	150.5	150.5	150.5	154.4	154.4	156.4	160.4	162.3	166.3	170.3
75°	120.8	120.8	122.7	122.7	124.7	126.7	128.7	130.7	134.6	136.6	138.6
77.5°	95.0	93.0	95.0	97.0	99.0	99.0	101.0	102.9	104.9	108.9	110.9
80°	67.3	67.3	67.3	69.3	71.3	71.3	73.2	75.2	77.2	81.2	83.1
82.5°	43.6	43.6	45.5	45.5	47.5	49.5	49.5	51.5	53.5	57.4	59.4
85°	23.8	23.8	23.8	25.7	27.7	27.7	29.7	31.7	35.6	37.6	41.6
87.5°	7.9	7.9	9.9	11.9	13.9	13.9	15.8	17.8	19.8	23.8	25.7
90°	2.0	2.0	2.0	4.0	4.0	5.9	5.9	7.9	9.9	11.9	13.9
92.5°	7.9	13.9	21.8	31.7	29.7	31.7	21.8	13.9	13.9	13.9	15.8
95°	23.8	35.6	57.4	91.1	118.8	134.6	148.5	162.3	190.1	192.0	184.1
97.5°	47.5	65.3	104.9	148.5	198.0	223.7	243.5	285.1	328.6	356.3	390.0
100°	79.2	104.9	156.4	215.8	273.2	306.9	338.5	397.9	451.4	498.9	550.4
102.5°	116.8	146.5	209.8	283.1	354.4	392.0	425.6	494.9	568.2	631.5	687.0
105°	156.4	190.1	265.3	348.4	429.6	473.1	514.7	590.0	667.2	736.4	801.8
107.5°	200.0	235.6	316.8	409.8	500.9	550.4	595.9	677.1	758.2	833.5	902.7
110°	241.5	281.1	366.2	467.2	570.2	619.6	665.2	754.3	839.4	918.6	991.8



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CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	285.1	326.7	411.8	522.6	627.6	679.0	726.6	821.6	910.7	991.8	1065.1
115°	326.7	366.2	455.3	570.2	677.1	730.5	782.0	879.0	972.0	1053.2	1128.4
117.5°	366.2	403.9	494.9	609.7	720.6	774.1	825.5	926.5	1019.5	1104.7	1177.9
120°	405.8	439.5	538.5	643.4	756.2	809.7	863.2	964.1	1059.1	1144.3	1219.5
122.5°	441.5	473.1	570.2	673.1	784.0	839.4	890.9	993.8	1090.8	1175.9	1249.2
125°	473.1	502.8	599.9	696.9	807.7	861.2	914.6	1015.6	1112.6	1195.7	1271.0
127.5°	504.8	534.5	621.6	720.6	823.6	879.0	930.5	1031.4	1126.5	1211.6	1284.8
130°	538.5	560.3	643.4	742.4	839.4	890.9	944.3	1041.3	1134.4	1217.5	1290.8
132.5°	566.2	586.0	665.2	760.2	851.3	900.8	948.3	1045.3	1138.3	1217.5	1288.8
135°	591.9	607.8	681.0	776.0	861.2	906.7	952.2	1043.3	1134.4	1213.6	1282.8
137.5°	615.7	631.5	694.9	787.9	869.1	908.7	952.2	1037.4	1124.5	1203.7	1269.0
140°	637.5	649.3	706.8	793.9	873.0	910.7	948.3	1027.5	1108.6	1185.8	1251.2
142.5°	659.2	669.1	716.7	797.8	875.0	910.7	946.3	1015.6	1090.8	1166.0	1231.4
145°	675.1	685.0	724.6	799.8	873.0	906.7	938.4	1003.7	1071.0	1140.3	1203.7
147.5°	692.9	700.8	732.5	795.8	867.1	898.8	928.5	987.9	1049.2	1112.6	1172.0
150°	704.8	712.7	736.4	791.9	857.2	886.9	916.6	972.0	1027.5	1082.9	1134.4
152.5°	716.7	722.6	742.4	785.9	845.3	873.0	900.8	954.2	1005.7	1055.2	1100.7
155°	726.6	732.5	746.3	782.0	831.5	857.2	882.9	934.4	981.9	1025.5	1067.1
157.5°	736.4	740.4	750.3	776.0	815.6	839.4	863.2	908.7	952.2	995.8	1029.4
160°	744.4	746.3	754.3	774.1	801.8	819.6	841.4	882.9	922.5	960.2	991.8
162.5°	752.3	752.3	758.2	770.1	789.9	801.8	817.6	853.3	888.9	922.5	952.2
165°	756.2	756.2	760.2	768.1	780.0	787.9	797.8	821.6	849.3	879.0	906.7
167.5°	760.2	760.2	762.2	766.1	774.1	778.0	782.0	797.8	815.6	837.4	859.2
170°	764.2	762.2	762.2	766.1	768.1	770.1	772.1	780.0	787.9	801.8	813.7
172.5°	764.2	762.2	762.2	764.2	764.2	764.2	764.2	766.1	768.1	776.0	780.0
175°	764.2	762.2	762.2	762.2	762.2	760.2	760.2	760.2	760.2	760.2	762.2
177.5°	764.2	762.2	760.2	760.2	758.2	758.2	756.2	756.2	754.3	754.3	754.3
180°	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3



TEST NUMBER: P395473

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3
2.5°	560.3	560.3	558.3	558.3	556.3	556.3	554.3	552.3	550.4	550.4
5°	562.2	560.3	558.3	558.3	558.3	556.3	556.3	556.3	554.3	554.3
7.5°	562.2	562.2	562.2	560.3	560.3	560.3	560.3	560.3	558.3	558.3
10°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	562.2	562.2	562.2
12.5°	564.2	564.2	564.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
15°	566.2	566.2	568.2	568.2	570.2	570.2	572.1	572.1	572.1	570.2
17.5°	564.2	566.2	568.2	570.2	572.1	572.1	574.1	574.1	574.1	574.1
20°	564.2	568.2	570.2	572.1	574.1	574.1	576.1	578.1	578.1	576.1
22.5°	562.2	566.2	568.2	572.1	574.1	574.1	578.1	578.1	578.1	578.1
25°	560.3	564.2	568.2	572.1	574.1	574.1	578.1	578.1	580.1	580.1
27.5°	556.3	560.3	566.2	570.2	572.1	574.1	576.1	578.1	578.1	578.1
30°	550.4	556.3	562.2	566.2	568.2	570.2	572.1	574.1	576.1	576.1
32.5°	542.4	548.4	554.3	560.3	562.2	564.2	568.2	570.2	570.2	570.2
35°	534.5	540.5	546.4	552.3	554.3	556.3	560.3	562.2	564.2	564.2
37.5°	522.6	528.6	534.5	540.5	542.4	546.4	550.4	552.3	552.3	552.3
40°	504.8	514.7	522.6	528.6	530.6	534.5	536.5	540.5	540.5	540.5
42.5°	489.0	496.9	502.8	510.8	512.7	518.7	522.6	524.6	526.6	526.6
45°	471.2	479.1	485.0	491.0	492.9	496.9	500.9	502.8	504.8	506.8
47.5°	453.4	459.3	465.2	471.2	473.1	477.1	481.1	483.0	485.0	485.0
50°	431.6	437.5	443.5	449.4	451.4	455.3	457.3	459.3	461.3	461.3
52.5°	407.8	413.8	419.7	425.6	427.6	429.6	433.6	435.5	437.5	437.5
55°	384.1	390.0	394.0	399.9	401.9	403.9	405.8	409.8	411.8	409.8
57.5°	356.3	362.3	366.2	372.2	374.2	376.1	378.1	380.1	382.1	382.1
60°	326.7	332.6	338.5	342.5	344.5	346.4	348.4	350.4	352.4	352.4
62.5°	297.0	302.9	306.9	312.8	314.8	314.8	316.8	318.7	320.7	320.7
65°	267.3	273.2	275.2	281.1	281.1	283.1	285.1	287.1	287.1	287.1
67.5°	235.6	241.5	243.5	247.5	247.5	249.4	251.4	253.4	253.4	253.4
70°	205.9	207.9	211.8	213.8	215.8	215.8	217.8	219.7	221.7	219.7
72.5°	174.2	176.2	180.2	182.1	182.1	184.1	184.1	186.1	188.1	188.1
75°	142.5	146.5	148.5	150.5	152.4	152.4	154.4	156.4	156.4	156.4
77.5°	112.8	116.8	118.8	120.8	122.7	122.7	124.7	124.7	126.7	124.7
80°	87.1	89.1	91.1	93.0	95.0	95.0	97.0	99.0	99.0	99.0
82.5°	63.4	65.3	69.3	71.3	71.3	71.3	75.2	75.2	77.2	75.2
85°	43.6	45.5	49.5	51.5	53.5	53.5	53.5	55.4	57.4	55.4
87.5°	27.7	31.7	33.7	35.6	35.6	35.6	37.6	39.6	39.6	39.6
90°	15.8	15.8	17.8	19.8	19.8	21.8	21.8	23.8	23.8	23.8
92.5°	15.8	17.8	17.8	17.8	19.8	19.8	19.8	21.8	21.8	21.8
95°	134.6	97.0	55.4	43.6	37.6	37.6	35.6	37.6	35.6	35.6
97.5°	407.8	441.5	457.3	479.1	491.0	489.0	481.1	489.0	483.0	489.0
100°	580.1	611.7	635.5	641.4	653.3	659.2	681.0	696.9	704.8	714.7
102.5°	720.6	758.2	785.9	801.8	813.7	821.6	847.3	871.1	882.9	890.9
105°	849.3	888.9	922.5	938.4	952.2	960.2	987.9	1015.6	1033.4	1043.3
107.5°	952.2	997.8	1033.4	1057.2	1071.0	1084.9	1118.5	1146.2	1168.0	1177.9
110°	1045.3	1090.8	1128.4	1156.1	1172.0	1185.8	1223.5	1255.1	1278.9	1290.8





TEST NUMBER: P395473

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1122.5	1172.0	1209.6	1239.3	1255.1	1274.9	1310.6	1346.2	1370.0	1383.8
115°	1185.8	1237.3	1276.9	1308.6	1326.4	1344.2	1385.8	1421.4	1445.2	1455.1
117.5°	1239.3	1290.8	1332.3	1364.0	1383.8	1403.6	1445.2	1476.9	1502.6	1510.5
120°	1282.8	1334.3	1375.9	1411.5	1431.3	1449.1	1488.7	1522.4	1546.1	1552.1
122.5°	1312.5	1366.0	1409.5	1449.1	1467.0	1484.8	1522.4	1556.0	1577.8	1583.8
125°	1334.3	1389.8	1433.3	1474.9	1492.7	1510.5	1546.1	1579.8	1597.6	1605.5
127.5°	1348.2	1403.6	1451.1	1490.7	1510.5	1526.4	1562.0	1591.7	1609.5	1615.4
130°	1352.1	1409.5	1457.1	1498.6	1516.5	1532.3	1565.9	1595.6	1611.5	1615.4
132.5°	1352.1	1407.6	1457.1	1496.7	1514.5	1530.3	1562.0	1589.7	1605.5	1609.5
135°	1344.2	1397.7	1447.2	1486.8	1504.6	1520.4	1552.1	1575.8	1591.7	1593.7
137.5°	1330.4	1381.8	1429.3	1468.9	1486.8	1502.6	1530.3	1556.0	1569.9	1573.9
140°	1312.5	1360.1	1407.6	1445.2	1463.0	1476.9	1504.6	1526.4	1540.2	1544.2
142.5°	1288.8	1336.3	1379.9	1417.5	1431.3	1447.2	1470.9	1492.7	1504.6	1508.5
145°	1263.1	1308.6	1348.2	1381.8	1397.7	1411.5	1433.3	1453.1	1465.0	1468.9
147.5°	1229.4	1274.9	1312.5	1344.2	1358.1	1371.9	1391.7	1409.5	1421.4	1425.4
150°	1187.8	1229.4	1269.0	1298.7	1312.5	1326.4	1346.2	1362.0	1373.9	1375.9
152.5°	1146.2	1185.8	1219.5	1249.2	1263.1	1276.9	1294.7	1310.6	1324.4	1324.4
155°	1106.7	1140.3	1172.0	1197.7	1209.6	1221.5	1239.3	1253.2	1265.0	1265.0
157.5°	1065.1	1096.8	1122.5	1146.2	1156.1	1166.0	1181.9	1193.8	1203.7	1201.7
160°	1025.5	1049.2	1073.0	1092.8	1102.7	1110.6	1122.5	1132.4	1142.3	1140.3
162.5°	981.9	1003.7	1023.5	1037.4	1045.3	1051.2	1063.1	1073.0	1078.9	1078.9
165°	932.4	952.2	970.1	983.9	991.8	995.8	1005.7	1011.6	1017.6	1017.6
167.5°	881.0	896.8	912.6	924.5	932.4	936.4	946.3	950.3	958.2	956.2
170°	829.5	841.4	853.3	863.2	867.1	871.1	879.0	882.9	886.9	886.9
172.5°	787.9	791.9	797.8	805.7	805.7	807.7	811.7	813.7	815.6	815.6
175°	764.2	766.1	766.1	766.1	766.1	766.1	768.1	766.1	768.1	766.1
177.5°	754.3	754.3	752.3	752.3	750.3	752.3	750.3	748.3	748.3	746.3
180°	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3	750.3

(END OF REPORT)