

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: P395786

Luminaire Tested: **I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, OPEN TOP  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8458.9 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

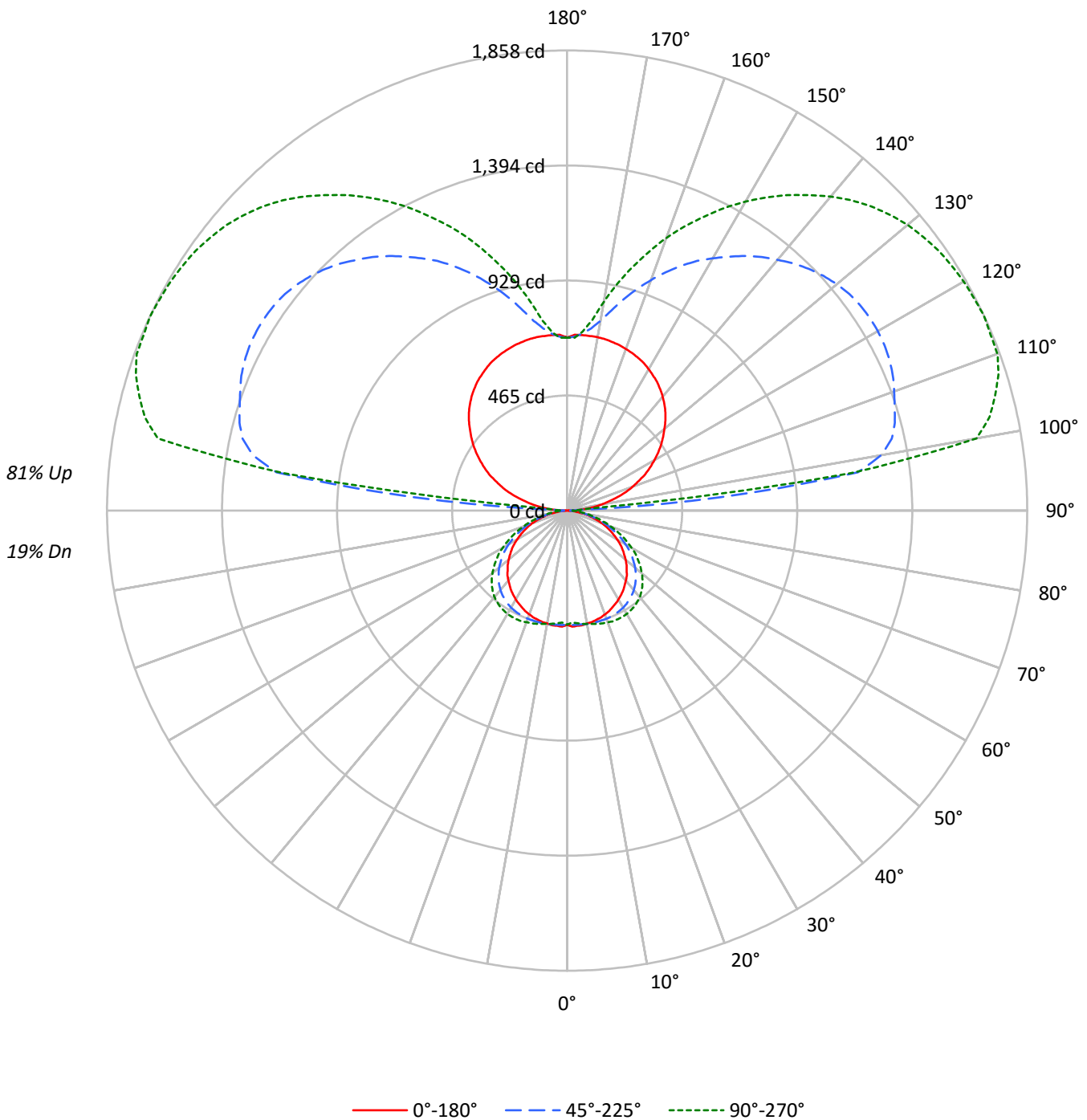
Input Watts (W): 63.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

### 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	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4

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

	0°	45°	90°
0°	2532	2532	2532
5°	2567	2495	2447
10°	2564	2479	2451
15°	2568	2470	2472
20°	2570	2479	2501
25°	2566	2486	2539
30°	2570	2489	2563
35°	2567	2477	2574
40°	2556	2458	2560
45°	2534	2407	2503
50°	2511	2329	2411
55°	2467	2216	2274
60°	2391	2056	2092
65°	2286	1831	1866
70°	2160	1587	1574
75°	1873	1244	1262
80°	1489	895	913
85°	883	522	602



TEST NUMBER: P395786

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	0.5
10°-20°	131.4	1.6
20°-30°	211.5	2.5
30°-40°	272.1	3.2
40°-50°	298.9	3.5
50°-60°	280.9	3.3
60°-70°	218.3	2.6
70°-80°	125.2	1.5
80°-90°	40.1	0.5
90°-100°	540.7	6.4
100°-110°	1285.0	15.2
110°-120°	1290.8	15.3
120°-130°	1183.8	14.0
130°-140°	989.9	11.7
140°-150°	743.0	8.8
150°-160°	483.6	5.7
160°-170°	249.1	2.9
170°-180°	70.5	0.8
0°-30°	387.0	4.6
0°-40°	659.1	7.8
0°-60°	1239.0	14.6
0°-90°	1622.6	19.2
90°-120°	3116.6	36.8
90°-150°	6033.2	71.3
90°-180°	6836.0	80.8
0°-180°	8458.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	467	463	463	461	456	44
15°	456	454	465	471	473	129
25°	432	436	461	477	484	199
35°	394	404	438	465	473	246
45°	340	356	392	421	429	263
55°	273	288	319	342	350	243
65°	192	202	221	240	246	190
75°	102	106	117	129	133	109
85°	21	25	33	44	46	25
90°	2	6	12	19	21	6
95°	73	605	621	83	71	73
105°	211	811	1370	1689	1789	223
115°	348	913	1436	1747	1858	342
125°	463	953	1445	1730	1830	413
135°	561	948	1380	1641	1737	432
145°	634	909	1255	1474	1555	396
155°	680	834	1090	1249	1309	314
165°	705	753	884	980	1017	199
175°	711	709	717	726	726	68
180°	698	698	698	698	698	



TEST NUMBER: P395786

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	469.1	467.0	464.9	464.9	462.8	462.8	462.8	460.7	460.7	460.7	462.8
5°	467.0	467.0	464.9	462.8	462.8	462.8	460.7	460.7	460.7	460.7	462.8
7.5°	467.0	464.9	462.8	462.8	460.7	460.7	460.7	460.7	460.7	460.7	462.8
10°	462.8	462.8	460.7	460.7	458.6	460.7	460.7	460.7	460.7	460.7	464.9
12.5°	460.7	460.7	458.6	456.5	456.5	456.5	458.6	458.6	458.6	460.7	464.9
15°	456.5	456.5	454.5	454.5	454.5	454.5	456.5	456.5	458.6	460.7	464.9
17.5°	452.4	452.4	450.3	450.3	450.3	452.4	452.4	454.5	456.5	460.7	464.9
20°	446.1	446.1	446.1	446.1	446.1	448.2	448.2	450.3	454.5	458.6	464.9
22.5°	439.9	439.9	439.9	439.9	439.9	442.0	444.0	448.2	450.3	456.5	462.8
25°	431.5	431.5	431.5	431.5	433.6	435.7	437.8	442.0	446.1	452.4	460.7
27.5°	423.2	425.3	425.3	425.3	427.4	429.4	431.5	435.7	442.0	450.3	456.5
30°	414.9	414.9	414.9	416.9	419.0	421.1	425.3	429.4	435.7	444.0	452.4
32.5°	404.4	404.4	406.5	406.5	410.7	412.8	416.9	423.2	429.4	437.8	446.1
35°	394.0	394.0	394.0	398.2	400.3	404.4	406.5	412.8	421.1	429.4	437.8
37.5°	381.5	383.6	383.6	385.7	389.8	394.0	396.1	404.4	412.8	421.1	429.4
40°	369.0	371.1	371.1	373.2	379.4	381.5	385.7	394.0	400.3	410.7	419.0
42.5°	356.5	356.5	358.6	360.7	366.9	369.0	373.2	381.5	389.8	398.2	406.5
45°	339.8	341.9	344.0	346.1	352.3	356.5	360.7	366.9	375.2	383.6	391.9
47.5°	325.2	325.2	327.3	331.5	337.7	341.9	344.0	352.3	358.6	366.9	375.2
50°	308.5	310.6	310.6	314.8	321.0	325.2	327.3	335.6	341.9	350.2	358.6
52.5°	289.8	291.9	293.9	298.1	304.4	308.5	310.6	316.9	323.1	331.5	337.7
55°	273.1	275.2	275.2	279.3	285.6	287.7	291.9	296.0	304.4	310.6	319.0
57.5°	254.3	256.4	256.4	260.6	264.8	268.9	271.0	277.3	283.5	289.8	296.0
60°	233.5	235.6	237.7	239.7	243.9	248.1	250.2	254.3	260.6	266.8	273.1
62.5°	212.6	214.7	216.8	218.9	223.1	225.1	227.2	233.5	237.7	243.9	248.1
65°	191.8	193.9	196.0	198.0	200.1	202.2	204.3	208.5	212.6	218.9	221.0
67.5°	170.9	173.0	173.0	175.1	177.2	179.3	181.4	185.5	187.6	193.9	196.0
70°	150.1	150.1	150.1	152.2	152.2	154.3	156.4	160.5	162.6	166.8	170.9
72.5°	125.1	127.2	127.2	127.2	129.3	131.3	133.4	135.5	137.6	139.7	143.8
75°	102.2	104.2	102.2	104.2	106.3	106.3	108.4	110.5	112.6	114.7	116.7
77.5°	81.3	79.2	81.3	81.3	83.4	83.4	83.4	85.5	89.6	89.6	93.8
80°	58.4	58.4	58.4	58.4	60.5	60.5	62.5	62.5	66.7	68.8	70.9
82.5°	37.5	37.5	39.6	39.6	39.6	41.7	41.7	43.8	45.9	47.9	50.0
85°	20.8	20.8	20.8	22.9	22.9	25.0	25.0	27.1	29.2	31.3	33.4
87.5°	6.3	8.3	10.4	10.4	12.5	12.5	14.6	14.6	18.8	20.8	22.9
90°	2.1	2.1	4.2	4.2	4.2	6.3	6.3	8.3	8.3	10.4	12.5
92.5°	35.4	83.4	173.0	258.5	223.1	208.5	125.1	37.5	33.4	35.4	35.4
95°	73.0	137.6	252.2	408.6	529.5	604.6	654.6	750.5	848.5	831.8	621.2
97.5°	106.3	177.2	304.4	448.2	615.0	700.5	765.1	879.7	1004.8	1109.1	1184.1
100°	139.7	212.6	348.1	498.2	652.5	729.6	804.7	961.0	1084.0	1188.3	1288.3
102.5°	175.1	248.1	387.8	544.1	696.3	771.3	844.3	981.9	1119.5	1244.6	1342.5
105°	210.6	285.6	423.2	583.7	735.9	810.9	881.8	1013.2	1140.3	1257.1	1369.6
107.5°	248.1	319.0	454.5	615.0	767.2	842.2	913.1	1044.4	1167.4	1284.2	1386.3
110°	281.4	350.2	485.7	644.2	796.4	871.4	942.3	1073.6	1194.5	1305.0	1405.1



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CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	312.7	379.4	514.9	669.2	819.3	894.3	963.1	1094.5	1215.4	1323.8	1423.8
115°	348.1	406.5	544.1	692.1	840.1	913.1	981.9	1111.1	1232.1	1338.4	1436.4
117.5°	377.3	433.6	569.1	710.9	856.8	927.7	994.4	1123.7	1242.5	1348.8	1444.7
120°	406.5	458.6	592.1	727.6	869.3	938.1	1004.8	1132.0	1250.8	1355.1	1448.9
122.5°	435.7	483.7	610.8	744.2	879.7	948.5	1013.2	1138.2	1255.0	1357.1	1448.9
125°	462.8	504.5	627.5	756.7	886.0	952.7	1015.2	1138.2	1252.9	1353.0	1444.7
127.5°	487.8	527.4	640.0	769.3	890.2	954.8	1015.2	1134.1	1248.7	1346.7	1436.4
130°	512.8	548.3	652.5	775.5	894.3	952.7	1011.1	1125.7	1238.3	1336.3	1421.8
132.5°	537.9	571.2	662.9	781.8	896.4	952.7	1006.9	1117.4	1225.8	1321.7	1403.0
135°	560.8	587.9	673.4	785.9	894.3	948.5	998.6	1102.8	1207.0	1300.9	1380.1
137.5°	581.6	604.6	681.7	788.0	892.3	942.3	992.3	1086.1	1184.1	1275.8	1353.0
140°	600.4	621.2	685.9	788.0	883.9	933.9	979.8	1069.5	1159.1	1246.7	1321.7
142.5°	617.1	635.8	692.1	783.8	875.6	923.5	967.3	1052.8	1134.1	1217.5	1290.4
145°	633.7	648.3	696.3	781.8	865.2	908.9	950.6	1031.9	1111.1	1186.2	1255.0
147.5°	646.3	660.8	700.5	773.4	852.6	892.3	931.9	1009.0	1082.0	1152.8	1215.4
150°	658.8	671.3	702.5	765.1	838.0	873.5	908.9	981.9	1052.8	1117.4	1175.8
152.5°	671.3	679.6	708.8	756.7	821.4	854.7	890.2	954.8	1019.4	1079.9	1136.2
155°	679.6	685.9	710.9	748.4	804.7	833.9	863.1	923.5	981.9	1038.2	1090.3
157.5°	688.0	694.2	713.0	742.2	785.9	813.0	838.0	890.2	944.4	994.4	1042.3
160°	694.2	698.4	713.0	738.0	769.3	788.0	810.9	858.9	904.8	948.5	990.2
162.5°	700.5	702.5	713.0	731.7	754.7	767.2	783.8	821.4	863.1	900.6	938.1
165°	704.6	706.7	713.0	727.6	742.2	752.6	760.9	788.0	819.3	852.6	883.9
167.5°	708.8	708.8	713.0	723.4	731.7	738.0	744.2	758.8	779.7	804.7	827.6
170°	710.9	710.9	713.0	719.2	725.5	727.6	731.7	740.1	750.5	763.0	777.6
172.5°	710.9	710.9	710.9	715.1	717.1	717.1	717.1	721.3	727.6	735.9	742.2
175°	710.9	708.8	708.8	710.9	708.8	708.8	708.8	708.8	710.9	715.1	717.1
177.5°	710.9	708.8	706.7	706.7	704.6	704.6	702.5	702.5	702.5	702.5	702.5
180°	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4



TEST NUMBER: P395786

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	462.8	462.8	460.7	458.6	458.6	458.6	456.5	454.5	452.4	452.4
5°	462.8	462.8	460.7	460.7	460.7	460.7	458.6	458.6	456.5	456.5
7.5°	464.9	462.8	462.8	462.8	462.8	462.8	462.8	462.8	460.7	460.7
10°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
12.5°	467.0	467.0	467.0	467.0	469.1	469.1	469.1	469.1	469.1	469.1
15°	467.0	469.1	471.1	471.1	471.1	473.2	473.2	473.2	473.2	473.2
17.5°	469.1	471.1	473.2	473.2	475.3	475.3	477.4	477.4	477.4	477.4
20°	469.1	471.1	473.2	475.3	477.4	477.4	479.5	481.6	481.6	479.5
22.5°	467.0	471.1	473.2	475.3	477.4	479.5	481.6	483.7	483.7	483.7
25°	464.9	469.1	473.2	477.4	477.4	479.5	483.7	483.7	483.7	483.7
27.5°	462.8	467.0	471.1	475.3	477.4	479.5	481.6	483.7	483.7	483.7
30°	458.6	464.9	469.1	473.2	475.3	477.4	479.5	481.6	481.6	481.6
32.5°	452.4	458.6	462.8	469.1	471.1	473.2	475.3	477.4	477.4	477.4
35°	446.1	452.4	456.5	462.8	464.9	467.0	471.1	471.1	473.2	473.2
37.5°	435.7	444.0	448.2	454.5	456.5	458.6	462.8	464.9	464.9	464.9
40°	425.3	433.6	437.8	444.0	446.1	448.2	452.4	454.5	456.5	456.5
42.5°	412.8	421.1	425.3	431.5	433.6	435.7	439.9	442.0	444.0	444.0
45°	400.3	406.5	410.7	416.9	421.1	421.1	425.3	427.4	429.4	429.4
47.5°	383.6	389.8	394.0	400.3	404.4	406.5	408.6	410.7	412.8	412.8
50°	364.8	371.1	377.3	381.5	385.7	385.7	389.8	391.9	394.0	394.0
52.5°	346.1	350.2	356.5	362.7	364.8	366.9	369.0	371.1	373.2	373.2
55°	325.2	329.4	335.6	339.8	341.9	344.0	346.1	348.1	350.2	350.2
57.5°	302.3	306.5	312.7	316.9	319.0	321.0	323.1	325.2	327.3	327.3
60°	277.3	281.4	287.7	291.9	293.9	293.9	298.1	300.2	300.2	300.2
62.5°	252.2	256.4	260.6	264.8	266.8	268.9	271.0	273.1	273.1	273.1
65°	227.2	231.4	235.6	237.7	239.7	239.7	241.8	243.9	246.0	246.0
67.5°	200.1	204.3	208.5	210.6	212.6	212.6	214.7	216.8	216.8	216.8
70°	173.0	175.1	179.3	181.4	183.5	183.5	187.6	187.6	187.6	187.6
72.5°	145.9	148.0	152.2	154.3	156.4	156.4	158.4	160.5	160.5	160.5
75°	120.9	123.0	125.1	129.3	129.3	129.3	131.3	133.4	133.4	133.4
77.5°	95.9	98.0	100.1	102.2	104.2	104.2	106.3	108.4	108.4	108.4
80°	73.0	75.0	77.1	79.2	79.2	81.3	81.3	83.4	83.4	83.4
82.5°	52.1	54.2	56.3	58.4	60.5	60.5	62.5	64.6	64.6	62.5
85°	35.4	39.6	41.7	43.8	43.8	43.8	45.9	47.9	47.9	45.9
87.5°	25.0	25.0	27.1	29.2	29.2	31.3	31.3	33.4	33.4	33.4
90°	14.6	14.6	16.7	16.7	18.8	18.8	18.8	20.8	20.8	20.8
92.5°	35.4	35.4	37.5	37.5	37.5	37.5	39.6	39.6	39.6	39.6
95°	379.4	170.9	143.8	87.6	83.4	73.0	70.9	73.0	73.0	70.9
97.5°	1273.8	1363.4	1419.7	1446.8	1413.4	1378.0	1338.4	1332.1	1277.9	1157.0
100°	1373.8	1444.7	1513.5	1561.4	1580.2	1596.9	1634.4	1657.3	1667.8	1678.2
102.5°	1423.8	1498.9	1559.4	1619.8	1644.8	1667.8	1701.1	1728.2	1738.6	1747.0
105°	1467.6	1544.8	1611.5	1665.7	1688.6	1709.5	1742.8	1767.8	1786.6	1788.7
107.5°	1478.1	1559.4	1634.4	1701.1	1728.2	1751.1	1790.8	1809.5	1826.2	1826.2
110°	1496.8	1573.9	1642.7	1703.2	1730.3	1757.4	1799.1	1828.3	1845.0	1849.1





TEST NUMBER: P395786

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1511.4	1590.6	1655.3	1715.7	1738.6	1763.7	1803.3	1830.4	1845.0	1851.2
115°	1523.9	1601.0	1665.7	1722.0	1747.0	1772.0	1811.6	1834.5	1851.2	1857.5
117.5°	1532.3	1607.3	1671.9	1724.0	1751.1	1772.0	1809.5	1834.5	1851.2	1853.3
120°	1534.3	1609.4	1671.9	1724.0	1747.0	1769.9	1807.4	1832.5	1849.1	1849.1
122.5°	1534.3	1607.3	1669.8	1719.9	1740.7	1761.6	1797.0	1826.2	1840.8	1840.8
125°	1526.0	1599.0	1659.4	1709.5	1730.3	1749.1	1786.6	1813.7	1828.3	1830.4
127.5°	1513.5	1584.4	1644.8	1694.9	1715.7	1732.4	1772.0	1797.0	1811.6	1813.7
130°	1496.8	1567.7	1626.1	1674.0	1694.9	1713.6	1747.0	1774.1	1790.8	1794.9
132.5°	1478.1	1544.8	1603.1	1649.0	1669.8	1686.5	1719.9	1747.0	1761.6	1767.8
135°	1455.1	1517.7	1573.9	1619.8	1640.7	1657.3	1688.6	1715.7	1730.3	1736.6
137.5°	1425.9	1486.4	1540.6	1586.5	1605.2	1621.9	1653.2	1678.2	1690.7	1699.0
140°	1392.6	1448.9	1505.2	1546.8	1565.6	1582.3	1609.4	1636.5	1649.0	1655.3
142.5°	1357.1	1413.4	1463.5	1505.2	1521.8	1538.5	1565.6	1590.6	1603.1	1605.2
145°	1319.6	1373.8	1419.7	1459.3	1473.9	1490.6	1515.6	1540.6	1553.1	1555.2
147.5°	1277.9	1328.0	1371.7	1409.3	1425.9	1438.4	1461.4	1484.3	1496.8	1498.9
150°	1230.0	1275.8	1315.4	1353.0	1367.6	1380.1	1405.1	1425.9	1438.4	1440.5
152.5°	1184.1	1227.9	1261.2	1294.6	1309.2	1321.7	1342.5	1363.4	1375.9	1378.0
155°	1136.2	1175.8	1209.1	1236.2	1248.7	1261.2	1277.9	1296.7	1307.1	1309.2
157.5°	1086.1	1123.7	1152.8	1177.9	1190.4	1200.8	1215.4	1232.1	1238.3	1242.5
160°	1031.9	1063.2	1088.2	1113.2	1123.7	1134.1	1148.7	1161.2	1169.5	1171.6
162.5°	973.6	1000.7	1021.5	1044.4	1050.7	1059.0	1073.6	1086.1	1092.4	1094.5
165°	913.1	938.1	956.9	975.6	979.8	986.1	996.5	1009.0	1013.2	1017.3
167.5°	852.6	873.5	886.0	902.7	908.9	913.1	923.5	931.9	936.0	938.1
170°	794.3	808.9	819.3	831.8	833.9	840.1	846.4	854.7	856.8	856.8
172.5°	748.4	754.7	760.9	765.1	767.2	769.3	773.4	775.5	775.5	775.5
175°	719.2	723.4	723.4	725.5	725.5	725.5	725.5	725.5	725.5	725.5
177.5°	702.5	702.5	702.5	700.5	700.5	700.5	700.5	698.4	698.4	698.4
180°	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4	698.4

(END OF REPORT)