

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: P395627

Luminaire Tested: **I3-FL-80L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-FL-80L82765-1D-UNV-W2A-W-4 (6500K)  
Description: CORELITE I3, FROSTED TOP COVER  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7586.2 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

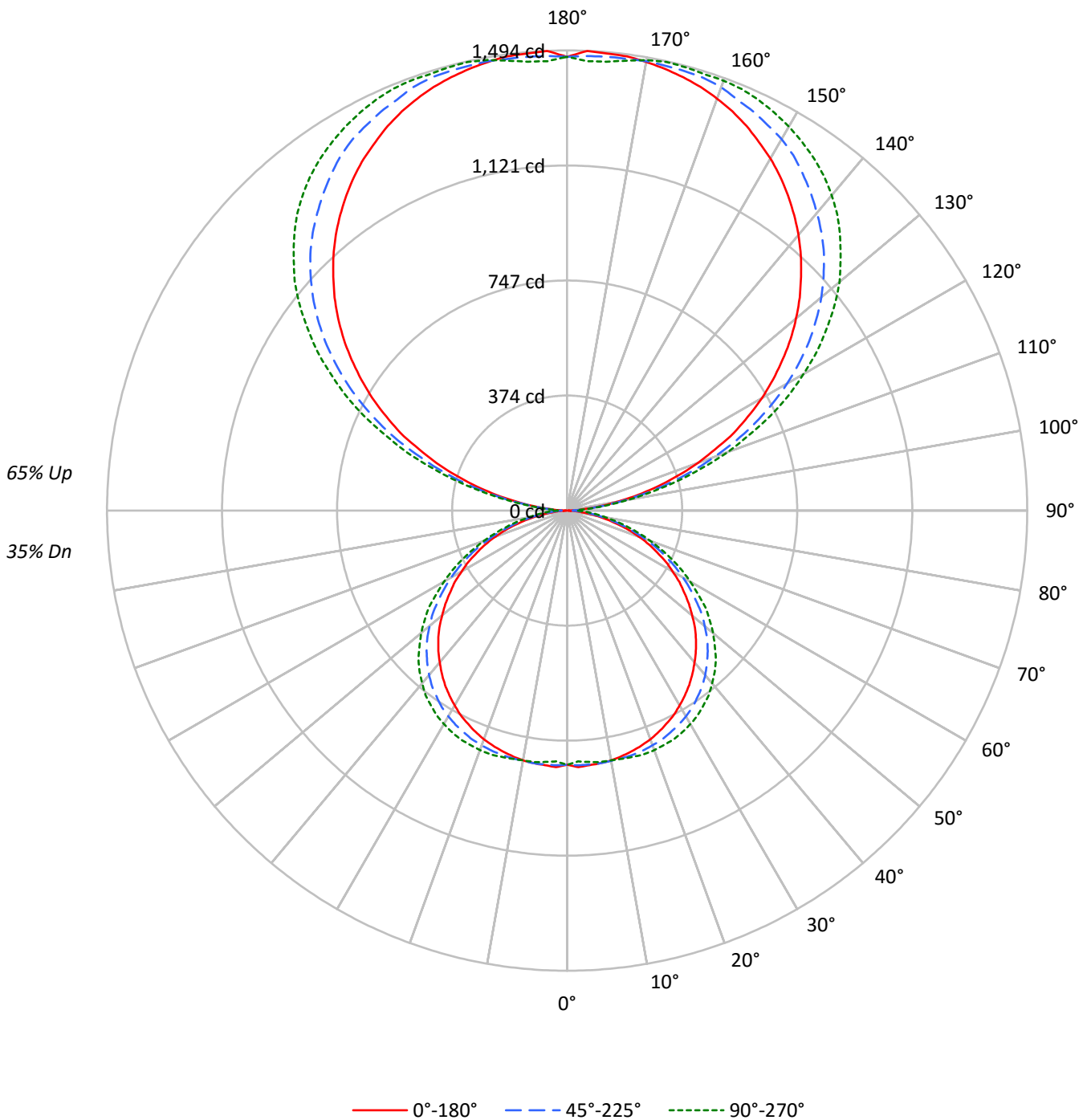
Input Watts (W): 65  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	4537	4537	4537
5°	4560	4462	4392
10°	4561	4401	4340
15°	4551	4363	4323
20°	4552	4325	4317
25°	4540	4287	4300
30°	4524	4246	4261
35°	4502	4178	4198
40°	4457	4090	4106
45°	4412	3963	3980
50°	4310	3789	3786
55°	4186	3549	3559
60°	4045	3270	3215
65°	3846	2931	2855
70°	3571	2498	2412
75°	3108	1985	1918
80°	2428	1410	1405
85°	1315	807	922



TEST NUMBER: P395627

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (6500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.0
10°-20°	231.5	3.1
20°-30°	365.0	4.8
30°-40°	458.8	6.0
40°-50°	493.3	6.5
50°-60°	453.8	6.0
60°-70°	347.6	4.6
70°-80°	197.9	2.6
80°-90°	61.8	0.8
90°-100°	82.7	1.1
100°-110°	359.5	4.7
110°-120°	658.2	8.7
120°-130°	848.4	11.2
130°-140°	902.7	11.9
140°-150°	830.6	10.9
150°-160°	658.0	8.7
160°-170°	416.7	5.5
170°-180°	141.1	1.9
0°-30°	675.2	8.9
0°-40°	1134.0	14.9
0°-60°	2081.0	27.4
0°-90°	2688.4	35.4
90°-120°	1100.4	14.5
90°-150°	3682.1	48.5
90°-180°	4898.0	64.6
0°-180°	7586.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	830	821	828	823	819	79
15°	809	805	821	828	828	229
25°	763	765	794	813	819	352
35°	691	699	738	763	772	432
45°	592	606	645	672	683	456
55°	463	482	511	538	548	415
65°	323	333	354	370	376	320
75°	170	174	186	196	203	179
85°	31	39	52	66	70	39
90°	2	6	19	27	31	5
95°	56	54	60	68	70	70
105°	304	319	343	364	370	324
115°	598	625	674	710	728	586
125°	854	892	960	1008	1028	763
135°	1074	1109	1179	1229	1254	829
145°	1250	1276	1334	1374	1396	782
155°	1378	1394	1430	1458	1471	635
165°	1456	1456	1477	1487	1490	412
175°	1490	1479	1479	1473	1463	142
180°	1473	1473	1473	1473	1473	



TEST NUMBER: P395627

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4
2.5°	833.7	831.6	829.6	825.4	825.4	823.4	823.4	823.4	823.4	825.4	827.5
5°	829.6	829.6	827.5	823.4	823.4	821.3	821.3	823.4	821.3	823.4	827.5
7.5°	827.5	827.5	825.4	821.3	821.3	821.3	821.3	821.3	821.3	823.4	827.5
10°	823.4	823.4	819.2	817.1	817.1	817.1	817.1	819.2	819.2	821.3	825.4
12.5°	817.1	815.1	813.0	810.9	810.9	810.9	813.0	815.1	815.1	819.2	823.4
15°	808.9	808.9	806.8	804.7	804.7	804.7	806.8	808.9	810.9	815.1	821.3
17.5°	800.6	800.6	798.5	798.5	798.5	798.5	800.6	802.7	806.8	810.9	817.1
20°	790.3	790.3	788.2	788.2	788.2	790.3	790.3	794.4	798.5	804.7	810.9
22.5°	777.8	777.8	777.8	775.8	777.8	779.9	782.0	786.1	790.3	796.5	804.7
25°	763.4	763.4	763.4	763.4	765.4	765.4	769.6	773.7	777.8	786.1	794.4
27.5°	748.9	748.9	748.9	746.8	750.9	753.0	755.1	761.3	765.4	775.8	784.0
30°	730.3	730.3	730.3	732.3	734.4	736.5	740.6	746.8	750.9	761.3	771.6
32.5°	711.6	711.6	711.6	711.6	717.8	719.9	722.0	728.2	736.5	746.8	757.2
35°	691.0	691.0	691.0	693.0	697.2	699.2	703.4	709.6	717.8	728.2	738.5
37.5°	668.2	670.3	670.3	672.3	676.5	680.6	684.8	691.0	699.2	709.6	719.9
40°	643.4	645.4	645.4	647.5	651.7	655.8	659.9	668.2	676.5	686.8	697.2
42.5°	618.6	620.6	620.6	624.8	628.9	633.0	637.2	645.4	653.7	664.1	672.3
45°	591.7	593.7	593.7	597.9	604.1	606.1	612.3	620.6	628.9	637.2	645.4
47.5°	562.7	564.8	564.8	568.9	575.1	579.2	583.4	591.7	597.9	608.2	616.5
50°	529.6	531.7	533.7	537.9	546.1	550.3	554.4	560.6	568.9	575.1	583.4
52.5°	498.6	498.6	500.6	504.8	511.0	515.1	517.2	523.4	533.7	542.0	550.3
55°	463.4	465.5	467.5	471.7	477.9	482.0	484.1	490.3	496.5	502.7	511.0
57.5°	432.4	432.4	434.4	438.6	444.8	446.8	448.9	453.1	461.3	467.5	473.7
60°	395.1	397.2	399.3	403.4	407.5	411.7	411.7	417.9	424.1	430.3	434.4
62.5°	362.0	362.0	364.1	368.2	370.3	374.4	374.4	380.6	384.8	391.0	395.1
65°	322.7	324.8	326.9	328.9	333.1	333.1	335.1	339.3	343.4	347.5	353.8
67.5°	287.6	287.6	289.6	291.7	293.8	293.8	295.8	300.0	304.1	308.2	312.4
70°	248.2	250.3	250.3	250.3	252.4	254.5	256.5	258.6	262.7	264.8	268.9
72.5°	208.9	208.9	211.0	211.0	213.1	215.1	217.2	219.3	221.4	225.5	227.6
75°	169.6	169.6	171.7	171.7	173.8	173.8	173.8	177.9	180.0	184.1	186.2
77.5°	130.3	132.4	132.4	132.4	134.5	136.5	136.5	138.6	142.7	144.8	146.9
80°	95.2	95.2	95.2	95.2	97.2	99.3	101.4	101.4	105.5	109.6	111.7
82.5°	60.0	60.0	62.1	64.1	64.1	66.2	68.3	70.3	74.5	76.5	78.6
85°	31.0	31.0	33.1	35.2	37.2	39.3	39.3	41.4	45.5	49.6	51.7
87.5°	10.3	12.4	12.4	14.5	16.5	18.6	20.7	22.8	26.9	31.0	33.1
90°	2.1	2.1	2.1	4.1	6.2	6.2	8.3	10.3	12.4	14.5	18.6
92.5°	18.6	18.6	16.5	18.6	18.6	18.6	18.6	20.7	22.8	22.8	26.9
95°	55.9	53.8	53.8	53.8	53.8	53.8	53.8	55.9	57.9	57.9	60.0
97.5°	107.6	107.6	105.5	105.5	107.6	107.6	107.6	109.6	113.8	111.7	115.8
100°	167.6	167.6	165.5	167.6	169.6	171.7	175.8	175.8	180.0	180.0	186.2
102.5°	235.8	235.8	233.8	237.9	240.0	244.1	244.1	248.2	254.5	254.5	262.7
105°	304.1	306.2	306.2	310.3	314.4	318.6	318.6	324.8	333.1	333.1	343.4
107.5°	378.6	380.6	380.6	384.8	388.9	393.1	395.1	403.4	411.7	413.7	426.2
110°	451.0	453.1	455.1	459.3	463.4	469.6	473.7	482.0	492.4	496.5	506.8



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CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	519.3	527.5	529.6	535.8	542.0	548.2	552.4	562.7	575.1	581.3	593.7
115°	597.9	602.0	604.1	610.3	618.6	624.8	628.9	639.2	651.7	659.9	674.4
117.5°	662.0	672.3	674.4	680.6	688.9	695.1	699.2	711.6	726.1	736.5	750.9
120°	730.3	738.5	746.8	750.9	757.2	765.4	769.6	782.0	798.5	808.9	825.4
122.5°	792.3	800.6	808.9	815.1	823.4	827.5	833.7	848.2	864.7	877.1	893.7
125°	854.4	864.7	870.9	877.1	887.5	891.6	897.8	912.3	928.9	943.3	959.9
127.5°	914.4	920.6	930.9	935.1	945.4	949.5	955.8	972.3	988.9	1003.3	1019.9
130°	970.2	978.5	986.8	988.9	1001.3	1007.5	1013.7	1028.2	1046.8	1061.3	1077.8
132.5°	1024.0	1028.2	1038.5	1044.7	1055.1	1061.3	1067.5	1079.9	1098.5	1113.0	1129.5
135°	1073.7	1077.8	1090.2	1096.4	1102.6	1108.8	1117.1	1129.5	1148.1	1162.6	1179.2
137.5°	1123.3	1127.5	1139.9	1146.1	1150.2	1156.4	1162.6	1175.0	1193.7	1208.1	1222.6
140°	1168.8	1173.0	1181.2	1189.5	1193.7	1197.8	1204.0	1216.4	1233.0	1247.4	1261.9
142.5°	1210.2	1214.3	1222.6	1230.9	1237.1	1237.1	1243.3	1253.7	1272.3	1286.8	1299.2
145°	1249.5	1251.6	1259.9	1268.1	1276.4	1276.4	1278.5	1288.8	1305.4	1321.9	1334.3
147.5°	1286.8	1288.8	1295.0	1303.3	1309.5	1311.6	1315.7	1319.9	1336.4	1353.0	1367.4
150°	1319.9	1321.9	1326.1	1334.3	1338.5	1342.6	1346.7	1348.8	1361.2	1375.7	1392.3
152.5°	1348.8	1350.9	1355.0	1361.2	1365.4	1369.5	1373.6	1379.8	1386.1	1400.5	1410.9
155°	1377.8	1379.8	1381.9	1388.1	1392.3	1394.3	1396.4	1404.7	1410.9	1419.1	1429.5
157.5°	1402.6	1402.6	1404.7	1408.8	1412.9	1412.9	1415.0	1423.3	1429.5	1437.8	1444.0
160°	1423.3	1423.3	1425.4	1429.5	1429.5	1431.6	1433.6	1439.8	1444.0	1454.3	1462.6
162.5°	1441.9	1439.8	1441.9	1444.0	1444.0	1444.0	1446.0	1450.2	1456.4	1464.7	1472.9
165°	1456.4	1456.4	1456.4	1458.5	1458.5	1456.4	1456.4	1460.5	1464.7	1470.9	1477.1
167.5°	1468.8	1468.8	1466.7	1468.8	1466.7	1466.7	1464.7	1466.7	1468.8	1475.0	1479.1
170°	1479.1	1477.1	1477.1	1477.1	1475.0	1472.9	1472.9	1472.9	1472.9	1477.1	1481.2
172.5°	1487.4	1485.3	1483.3	1483.3	1479.1	1477.1	1477.1	1475.0	1475.0	1477.1	1479.1
175°	1489.5	1487.4	1485.3	1485.3	1481.2	1479.1	1477.1	1477.1	1475.0	1477.1	1479.1
177.5°	1493.6	1491.6	1487.4	1487.4	1483.3	1479.1	1479.1	1477.1	1475.0	1477.1	1477.1
180°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9



TEST NUMBER: P395627

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4	825.4
2.5°	829.6	829.6	827.5	825.4	825.4	823.4	821.3	819.2	817.1	815.1
5°	829.6	827.5	825.4	825.4	823.4	823.4	823.4	821.3	819.2	819.2
7.5°	829.6	829.6	827.5	825.4	825.4	825.4	825.4	825.4	823.4	823.4
10°	829.6	827.5	827.5	827.5	825.4	827.5	827.5	825.4	825.4	823.4
12.5°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	825.4
15°	823.4	825.4	825.4	827.5	827.5	827.5	829.6	829.6	827.5	827.5
17.5°	821.3	823.4	825.4	827.5	827.5	827.5	829.6	829.6	829.6	829.6
20°	817.1	819.2	821.3	823.4	823.4	825.4	825.4	827.5	827.5	827.5
22.5°	808.9	810.9	815.1	817.1	819.2	821.3	823.4	823.4	823.4	823.4
25°	800.6	804.7	806.8	810.9	813.0	815.1	817.1	817.1	817.1	819.2
27.5°	790.3	794.4	800.6	802.7	804.7	806.8	808.9	810.9	810.9	810.9
30°	777.8	784.0	788.2	792.3	794.4	796.5	798.5	798.5	800.6	800.6
32.5°	763.4	769.6	773.7	777.8	779.9	782.0	786.1	786.1	788.2	788.2
35°	744.7	750.9	757.2	761.3	763.4	765.4	769.6	771.6	771.6	771.6
37.5°	726.1	732.3	738.5	744.7	746.8	748.9	753.0	753.0	755.1	755.1
40°	703.4	709.6	715.8	722.0	722.0	726.1	728.2	730.3	732.3	732.3
42.5°	680.6	686.8	691.0	697.2	699.2	701.3	703.4	707.5	707.5	709.6
45°	653.7	659.9	664.1	670.3	672.3	674.4	678.5	680.6	682.7	682.7
47.5°	624.8	628.9	633.0	639.2	643.4	645.4	647.5	649.6	651.7	649.6
50°	591.7	595.8	602.0	608.2	610.3	612.3	616.5	616.5	618.6	618.6
52.5°	556.5	562.7	566.8	573.0	575.1	577.2	581.3	581.3	583.4	583.4
55°	517.2	521.3	525.5	535.8	537.9	539.9	544.1	544.1	546.1	548.2
57.5°	479.9	482.0	488.2	492.4	496.5	496.5	498.6	500.6	502.7	502.7
60°	440.6	442.7	446.8	453.1	453.1	455.1	459.3	459.3	461.3	461.3
62.5°	399.3	403.4	407.5	413.7	411.7	413.7	417.9	417.9	420.0	420.0
65°	357.9	360.0	364.1	368.2	370.3	370.3	372.4	374.4	376.5	376.5
67.5°	314.4	318.6	320.7	326.9	324.8	326.9	328.9	328.9	331.0	331.0
70°	273.1	275.1	279.3	281.3	281.3	283.4	285.5	285.5	285.5	287.6
72.5°	231.7	233.8	235.8	237.9	237.9	240.0	242.0	242.0	244.1	244.1
75°	188.3	192.4	194.5	198.6	196.5	198.6	202.7	202.7	202.7	202.7
77.5°	151.0	153.1	157.2	159.3	159.3	159.3	163.4	161.4	163.4	163.4
80°	113.8	115.8	120.0	122.1	122.1	124.1	126.2	126.2	126.2	128.3
82.5°	80.7	84.8	89.0	91.0	91.0	93.1	95.2	95.2	97.2	97.2
85°	55.9	60.0	64.1	64.1	66.2	68.3	70.3	70.3	70.3	70.3
87.5°	37.2	39.3	41.4	43.4	45.5	45.5	47.6	47.6	49.6	49.6
90°	20.7	22.8	24.8	26.9	26.9	29.0	29.0	31.0	31.0	31.0
92.5°	29.0	29.0	31.0	33.1	33.1	33.1	33.1	35.2	35.2	35.2
95°	62.1	64.1	64.1	68.3	68.3	68.3	70.3	70.3	70.3	70.3
97.5°	120.0	120.0	120.0	124.1	124.1	124.1	126.2	126.2	126.2	128.3
100°	188.3	190.3	190.3	196.5	194.5	198.6	198.6	198.6	198.6	200.7
102.5°	264.8	268.9	271.0	277.2	277.2	277.2	281.3	279.3	281.3	281.3
105°	347.5	351.7	353.8	360.0	364.1	364.1	368.2	366.2	368.2	370.3
107.5°	430.3	436.5	440.6	446.8	451.0	453.1	453.1	455.1	457.2	459.3
110°	515.1	521.3	531.7	537.9	539.9	544.1	546.1	548.2	550.3	554.4





TEST NUMBER: P395627

CATALOG NUMBER: I3-FL-80L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	604.1	610.3	618.6	626.8	624.8	631.0	635.1	637.2	639.2	637.2
115°	684.8	693.0	701.3	709.6	709.6	713.7	722.0	724.1	724.1	728.2
117.5°	761.3	771.6	779.9	788.2	790.3	794.4	800.6	806.8	806.8	810.9
120°	835.8	848.2	856.5	864.7	868.9	870.9	877.1	885.4	885.4	885.4
122.5°	906.1	916.4	926.8	935.1	939.2	943.3	947.5	957.8	957.8	962.0
125°	972.3	984.7	995.1	1003.3	1007.5	1011.6	1019.9	1026.1	1028.2	1028.2
127.5°	1034.4	1046.8	1057.1	1067.5	1069.5	1073.7	1081.9	1090.2	1092.3	1094.4
130°	1092.3	1104.7	1115.0	1125.4	1129.5	1131.6	1141.9	1148.1	1152.3	1154.4
132.5°	1144.0	1156.4	1166.8	1177.1	1181.2	1185.4	1191.6	1201.9	1204.0	1204.0
135°	1191.6	1204.0	1214.3	1226.8	1228.8	1233.0	1241.2	1247.4	1251.6	1253.7
137.5°	1235.0	1247.4	1259.9	1270.2	1274.3	1276.4	1284.7	1293.0	1297.1	1299.2
140°	1274.3	1286.8	1299.2	1307.4	1309.5	1315.7	1321.9	1330.2	1334.3	1336.4
142.5°	1311.6	1321.9	1332.3	1342.6	1344.7	1348.8	1355.0	1363.3	1367.4	1369.5
145°	1344.7	1355.0	1363.3	1371.6	1373.6	1377.8	1384.0	1390.2	1394.3	1396.4
147.5°	1375.7	1384.0	1392.3	1398.5	1400.5	1404.7	1408.8	1412.9	1417.1	1419.1
150°	1402.6	1406.7	1415.0	1419.1	1421.2	1425.4	1429.5	1433.6	1437.8	1439.8
152.5°	1423.3	1429.5	1433.6	1439.8	1441.9	1444.0	1448.1	1452.2	1456.4	1456.4
155°	1439.8	1446.0	1450.2	1456.4	1458.5	1460.5	1464.7	1466.7	1470.9	1470.9
157.5°	1452.2	1458.5	1462.6	1466.7	1468.8	1470.9	1472.9	1477.1	1481.2	1481.2
160°	1466.7	1468.8	1470.9	1475.0	1475.0	1477.1	1479.1	1481.2	1485.3	1485.3
162.5°	1479.1	1481.2	1477.1	1479.1	1477.1	1479.1	1481.2	1483.3	1485.3	1485.3
165°	1483.3	1487.4	1485.3	1487.4	1487.4	1487.4	1487.4	1489.5	1489.5	1489.5
167.5°	1483.3	1487.4	1485.3	1485.3	1487.4	1487.4	1489.5	1491.6	1491.6	1491.6
170°	1483.3	1485.3	1483.3	1481.2	1483.3	1483.3	1483.3	1485.3	1485.3	1485.3
172.5°	1481.2	1483.3	1479.1	1477.1	1477.1	1477.1	1475.0	1475.0	1472.9	1472.9
175°	1479.1	1479.1	1475.0	1472.9	1472.9	1472.9	1468.8	1466.7	1464.7	1462.6
177.5°	1477.1	1477.1	1470.9	1468.8	1468.8	1466.7	1466.7	1462.6	1462.6	1460.5
180°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9

(END OF REPORT)