

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: P395644

Luminaire Tested: **I3-FL-80L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395644
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-80L93050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6780.4 lumens
Efficiency: N/A
Efficacy: 104.5 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

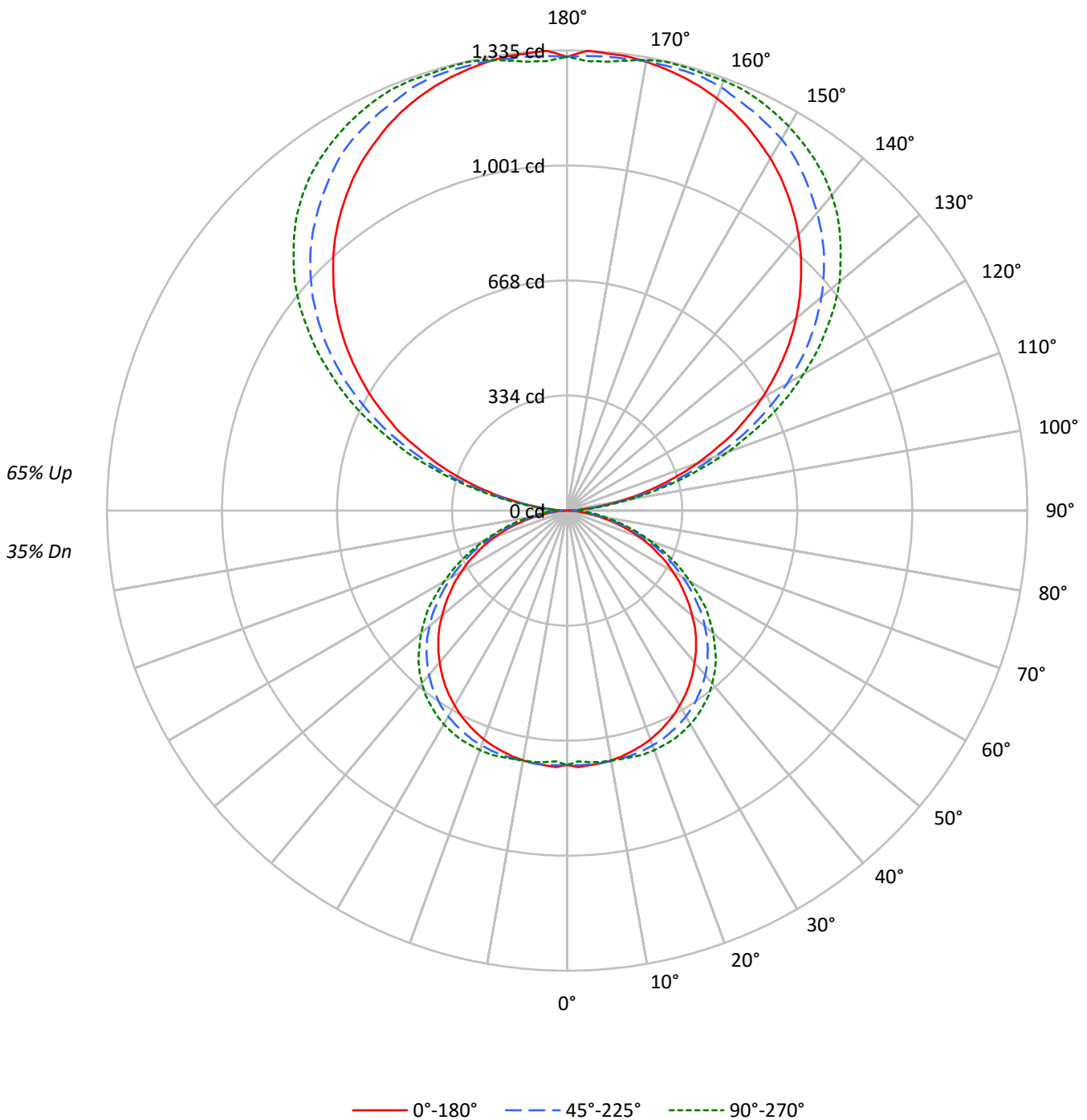
Input Watts (W): 64.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4055	4055	4055
5°	4075	3988	3925
10°	4077	3933	3879
15°	4068	3899	3864
20°	4068	3866	3858
25°	4057	3831	3843
30°	4043	3795	3809
35°	4024	3734	3752
40°	3983	3656	3670
45°	3943	3543	3557
50°	3852	3386	3383
55°	3742	3172	3181
60°	3616	2923	2873
65°	3437	2619	2552
70°	3193	2233	2156
75°	2778	1774	1715
80°	2170	1260	1255
85°	1175	722	825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.0
10°-20°	206.9	3.1
20°-30°	326.2	4.8
30°-40°	410.0	6.0
40°-50°	440.9	6.5
50°-60°	405.6	6.0
60°-70°	310.7	4.6
70°-80°	176.9	2.6
80°-90°	55.2	0.8
90°-100°	73.9	1.1
100°-110°	321.3	4.7
110°-120°	588.3	8.7
120°-130°	758.3	11.2
130°-140°	806.9	11.9
140°-150°	742.3	10.9
150°-160°	588.1	8.7
160°-170°	372.4	5.5
170°-180°	126.1	1.9
0°-30°	603.5	8.9
0°-40°	1013.5	14.9
0°-60°	1860.0	27.4
0°-90°	2402.8	35.4
90°-120°	983.5	14.5
90°-150°	3291.0	48.5
90°-180°	4378.0	64.6
0°-180°	6780.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	741	734	740	736	732	71
15°	723	719	734	740	740	204
25°	682	684	710	727	732	315
35°	618	625	660	682	690	386
45°	529	542	577	601	610	407
55°	414	431	457	481	490	371
65°	288	298	316	331	336	286
75°	152	155	166	176	181	160
85°	28	35	46	59	63	35
90°	2	6	17	24	28	4
95°	50	48	54	61	63	62
105°	272	285	307	325	331	289
115°	534	558	603	634	651	524
125°	764	797	858	900	919	682
135°	960	991	1054	1098	1120	741
145°	1117	1141	1193	1228	1248	699
155°	1231	1246	1278	1304	1315	568
165°	1302	1302	1320	1329	1331	368
175°	1331	1322	1322	1316	1307	127
180°	1316	1316	1316	1316	1316	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
2.5°	745.1	743.3	741.4	737.7	737.7	735.9	735.9	735.9	735.9	737.7	739.6
5°	741.4	741.4	739.6	735.9	735.9	734.0	734.0	735.9	734.0	735.9	739.6
7.5°	739.6	739.6	737.7	734.0	734.0	734.0	734.0	734.0	734.0	735.9	739.6
10°	735.9	735.9	732.2	730.4	730.4	730.4	730.4	732.2	732.2	734.0	737.7
12.5°	730.4	728.5	726.7	724.8	724.8	724.8	726.7	728.5	728.5	732.2	735.9
15°	723.0	723.0	721.1	719.3	719.3	719.3	721.1	723.0	724.8	728.5	734.0
17.5°	715.6	715.6	713.7	713.7	713.7	713.7	715.6	717.4	721.1	724.8	730.4
20°	706.3	706.3	704.5	704.5	704.5	706.3	706.3	710.0	713.7	719.3	724.8
22.5°	695.2	695.2	695.2	693.4	695.2	697.1	698.9	702.6	706.3	711.9	719.3
25°	682.3	682.3	682.3	682.3	684.1	684.1	687.8	691.5	695.2	702.6	710.0
27.5°	669.3	669.3	669.3	667.5	671.2	673.0	674.9	680.4	684.1	693.4	700.8
30°	652.7	652.7	652.7	654.5	656.4	658.2	661.9	667.5	671.2	680.4	689.7
32.5°	636.1	636.1	636.1	636.1	641.6	643.4	645.3	650.8	658.2	667.5	676.7
35°	617.6	617.6	617.6	619.4	623.1	625.0	628.7	634.2	641.6	650.8	660.1
37.5°	597.2	599.1	599.1	600.9	604.6	608.3	612.0	617.6	625.0	634.2	643.4
40°	575.0	576.9	576.9	578.7	582.4	586.1	589.8	597.2	604.6	613.9	623.1
42.5°	552.8	554.7	554.7	558.4	562.1	565.8	569.5	576.9	584.3	593.5	600.9
45°	528.8	530.7	530.7	534.4	539.9	541.8	547.3	554.7	562.1	569.5	576.9
47.5°	502.9	504.8	504.8	508.5	514.0	517.7	521.4	528.8	534.4	543.6	551.0
50°	473.3	475.2	477.0	480.7	488.1	491.8	495.5	501.1	508.5	514.0	521.4
52.5°	445.6	445.6	447.5	451.2	456.7	460.4	462.2	467.8	477.0	484.4	491.8
55°	414.2	416.0	417.9	421.6	427.1	430.8	432.7	438.2	443.8	449.3	456.7
57.5°	386.4	386.4	388.3	392.0	397.5	399.4	401.2	404.9	412.3	417.9	423.4
60°	353.2	355.0	356.9	360.6	364.3	367.9	367.9	373.5	379.0	384.6	388.3
62.5°	323.6	323.6	325.4	329.1	331.0	334.7	334.7	340.2	343.9	349.5	353.2
65°	288.4	290.3	292.1	294.0	297.7	297.7	299.5	303.2	306.9	310.6	316.2
67.5°	257.0	257.0	258.9	260.7	262.6	262.6	264.4	268.1	271.8	275.5	279.2
70°	221.9	223.7	223.7	223.7	225.6	227.4	229.3	231.1	234.8	236.7	240.4
72.5°	186.7	186.7	188.6	188.6	190.4	192.3	194.1	196.0	197.8	201.5	203.4
75°	151.6	151.6	153.5	153.5	155.3	155.3	155.3	159.0	160.9	164.6	166.4
77.5°	116.5	118.3	118.3	118.3	120.2	122.0	122.0	123.9	127.6	129.4	131.3
80°	85.1	85.1	85.1	85.1	86.9	88.8	90.6	90.6	94.3	98.0	99.8
82.5°	53.6	53.6	55.5	57.3	57.3	59.2	61.0	62.9	66.6	68.4	70.3
85°	27.7	27.7	29.6	31.4	33.3	35.1	35.1	37.0	40.7	44.4	46.2
87.5°	9.2	11.1	11.1	12.9	14.8	16.6	18.5	20.3	24.0	27.7	29.6
90°	1.8	1.8	1.8	3.7	5.5	5.5	7.4	9.2	11.1	12.9	16.6
92.5°	16.6	16.6	14.8	16.6	16.6	16.6	16.6	18.5	20.3	20.3	24.0
95°	49.9	48.1	48.1	48.1	48.1	48.1	48.1	49.9	51.8	51.8	53.6
97.5°	96.1	96.1	94.3	94.3	96.1	96.1	96.1	98.0	101.7	99.8	103.5
100°	149.8	149.8	147.9	149.8	151.6	153.5	157.2	157.2	160.9	160.9	166.4
102.5°	210.8	210.8	208.9	212.6	214.5	218.2	218.2	221.9	227.4	227.4	234.8
105°	271.8	273.7	273.7	277.3	281.0	284.7	284.7	290.3	297.7	297.7	306.9
107.5°	338.4	340.2	340.2	343.9	347.6	351.3	353.2	360.6	367.9	369.8	380.9
110°	403.1	404.9	406.8	410.5	414.2	419.7	423.4	430.8	440.1	443.8	453.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	464.1	471.5	473.3	478.9	484.4	490.0	493.7	502.9	514.0	519.6	530.7
115°	534.4	538.1	539.9	545.5	552.8	558.4	562.1	571.3	582.4	589.8	602.8
117.5°	591.7	600.9	602.8	608.3	615.7	621.3	625.0	636.1	649.0	658.2	671.2
120°	652.7	660.1	667.5	671.2	676.7	684.1	687.8	698.9	713.7	723.0	737.7
122.5°	708.2	715.6	723.0	728.5	735.9	739.6	745.1	758.1	772.9	784.0	798.8
125°	763.6	772.9	778.4	784.0	793.2	796.9	802.5	815.4	830.2	843.1	857.9
127.5°	817.3	822.8	832.0	835.7	845.0	848.7	854.2	869.0	883.8	896.8	911.6
130°	867.2	874.6	882.0	883.8	894.9	900.5	906.0	918.9	935.6	948.5	963.3
132.5°	915.3	918.9	928.2	933.7	943.0	948.5	954.1	965.2	981.8	994.8	1009.5
135°	959.6	963.3	974.4	980.0	985.5	991.1	998.5	1009.5	1026.2	1039.1	1053.9
137.5°	1004.0	1007.7	1018.8	1024.3	1028.0	1033.6	1039.1	1050.2	1066.9	1079.8	1092.8
140°	1044.7	1048.4	1055.8	1063.2	1066.9	1070.6	1076.1	1087.2	1102.0	1114.9	1127.9
142.5°	1081.7	1085.4	1092.8	1100.1	1105.7	1105.7	1111.2	1120.5	1137.1	1150.1	1161.2
145°	1116.8	1118.6	1126.0	1133.4	1140.8	1140.8	1142.7	1151.9	1166.7	1181.5	1192.6
147.5°	1150.1	1151.9	1157.5	1164.9	1170.4	1172.3	1176.0	1179.7	1194.4	1209.2	1222.2
150°	1179.7	1181.5	1185.2	1192.6	1196.3	1200.0	1203.7	1205.5	1216.6	1229.6	1244.4
152.5°	1205.5	1207.4	1211.1	1216.6	1220.3	1224.0	1227.7	1233.3	1238.8	1251.8	1261.0
155°	1231.4	1233.3	1235.1	1240.7	1244.4	1246.2	1248.1	1255.5	1261.0	1268.4	1277.7
157.5°	1253.6	1253.6	1255.5	1259.2	1262.9	1262.9	1264.7	1272.1	1277.7	1285.0	1290.6
160°	1272.1	1272.1	1274.0	1277.7	1277.7	1279.5	1281.4	1286.9	1290.6	1299.8	1307.2
162.5°	1288.7	1286.9	1288.7	1290.6	1290.6	1290.6	1292.4	1296.1	1301.7	1309.1	1316.5
165°	1301.7	1301.7	1301.7	1303.5	1303.5	1301.7	1301.7	1305.4	1309.1	1314.6	1320.2
167.5°	1312.8	1312.8	1310.9	1312.8	1310.9	1310.9	1309.1	1310.9	1312.8	1318.3	1322.0
170°	1322.0	1320.2	1320.2	1320.2	1318.3	1316.5	1316.5	1316.5	1316.5	1320.2	1323.9
172.5°	1329.4	1327.6	1325.7	1325.7	1322.0	1320.2	1320.2	1318.3	1318.3	1320.2	1322.0
175°	1331.3	1329.4	1327.6	1327.6	1323.9	1322.0	1320.2	1320.2	1318.3	1320.2	1322.0
177.5°	1335.0	1333.1	1329.4	1329.4	1325.7	1322.0	1322.0	1320.2	1318.3	1320.2	1320.2
180°	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
2.5°	741.4	741.4	739.6	737.7	737.7	735.9	734.0	732.2	730.4	728.5
5°	741.4	739.6	737.7	737.7	735.9	735.9	735.9	734.0	732.2	732.2
7.5°	741.4	741.4	739.6	737.7	737.7	737.7	737.7	737.7	735.9	735.9
10°	741.4	739.6	739.6	739.6	737.7	739.6	739.6	737.7	737.7	735.9
12.5°	739.6	739.6	739.6	739.6	739.6	739.6	739.6	739.6	739.6	737.7
15°	735.9	737.7	737.7	739.6	739.6	739.6	741.4	741.4	739.6	739.6
17.5°	734.0	735.9	737.7	739.6	739.6	739.6	741.4	741.4	741.4	741.4
20°	730.4	732.2	734.0	735.9	735.9	737.7	737.7	739.6	739.6	739.6
22.5°	723.0	724.8	728.5	730.4	732.2	734.0	735.9	735.9	735.9	735.9
25°	715.6	719.3	721.1	724.8	726.7	728.5	730.4	730.4	730.4	732.2
27.5°	706.3	710.0	715.6	717.4	719.3	721.1	723.0	724.8	724.8	724.8
30°	695.2	700.8	704.5	708.2	710.0	711.9	713.7	713.7	715.6	715.6
32.5°	682.3	687.8	691.5	695.2	697.1	698.9	702.6	702.6	704.5	704.5
35°	665.6	671.2	676.7	680.4	682.3	684.1	687.8	689.7	689.7	689.7
37.5°	649.0	654.5	660.1	665.6	667.5	669.3	673.0	673.0	674.9	674.9
40°	628.7	634.2	639.8	645.3	645.3	649.0	650.8	652.7	654.5	654.5
42.5°	608.3	613.9	617.6	623.1	625.0	626.8	628.7	632.4	632.4	634.2
45°	584.3	589.8	593.5	599.1	600.9	602.8	606.5	608.3	610.2	610.2
47.5°	558.4	562.1	565.8	571.3	575.0	576.9	578.7	580.6	582.4	580.6
50°	528.8	532.5	538.1	543.6	545.5	547.3	551.0	551.0	552.8	552.8
52.5°	497.4	502.9	506.6	512.2	514.0	515.9	519.6	519.6	521.4	521.4
55°	462.2	465.9	469.6	478.9	480.7	482.6	486.3	486.3	488.1	490.0
57.5°	429.0	430.8	436.4	440.1	443.8	443.8	445.6	447.5	449.3	449.3
60°	393.8	395.7	399.4	404.9	404.9	406.8	410.5	410.5	412.3	412.3
62.5°	356.9	360.6	364.3	369.8	367.9	369.8	373.5	373.5	375.3	375.3
65°	319.9	321.7	325.4	329.1	331.0	331.0	332.8	334.7	336.5	336.5
67.5°	281.0	284.7	286.6	292.1	290.3	292.1	294.0	294.0	295.8	295.8
70°	244.1	245.9	249.6	251.5	251.5	253.3	255.2	255.2	255.2	257.0
72.5°	207.1	208.9	210.8	212.6	212.6	214.5	216.3	216.3	218.2	218.2
75°	168.3	172.0	173.8	177.5	175.7	177.5	181.2	181.2	181.2	181.2
77.5°	135.0	136.8	140.5	142.4	142.4	142.4	146.1	144.2	146.1	146.1
80°	101.7	103.5	107.2	109.1	109.1	110.9	112.8	112.8	112.8	114.6
82.5°	72.1	75.8	79.5	81.4	81.4	83.2	85.1	85.1	86.9	86.9
85°	49.9	53.6	57.3	57.3	59.2	61.0	62.9	62.9	62.9	62.9
87.5°	33.3	35.1	37.0	38.8	40.7	40.7	42.5	42.5	44.4	44.4
90°	18.5	20.3	22.2	24.0	24.0	25.9	25.9	27.7	27.7	27.7
92.5°	25.9	25.9	27.7	29.6	29.6	29.6	29.6	31.4	31.4	31.4
95°	55.5	57.3	57.3	61.0	61.0	61.0	62.9	62.9	62.9	62.9
97.5°	107.2	107.2	107.2	110.9	110.9	110.9	112.8	112.8	112.8	114.6
100°	168.3	170.1	170.1	175.7	173.8	177.5	177.5	177.5	177.5	179.4
102.5°	236.7	240.4	242.2	247.8	247.8	247.8	251.5	249.6	251.5	251.5
105°	310.6	314.3	316.2	321.7	325.4	325.4	329.1	327.3	329.1	331.0
107.5°	384.6	390.1	393.8	399.4	403.1	404.9	404.9	406.8	408.6	410.5
110°	460.4	465.9	475.2	480.7	482.6	486.3	488.1	490.0	491.8	495.5



TEST NUMBER: P395644

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	539.9	545.5	552.8	560.2	558.4	563.9	567.6	569.5	571.3	569.5
115°	612.0	619.4	626.8	634.2	634.2	637.9	645.3	647.1	647.1	650.8
117.5°	680.4	689.7	697.1	704.5	706.3	710.0	715.6	721.1	721.1	724.8
120°	747.0	758.1	765.5	772.9	776.6	778.4	784.0	791.4	791.4	791.4
122.5°	809.9	819.1	828.3	835.7	839.4	843.1	846.8	856.1	856.1	859.8
125°	869.0	880.1	889.4	896.8	900.5	904.2	911.6	917.1	918.9	918.9
127.5°	924.5	935.6	944.8	954.1	955.9	959.6	967.0	974.4	976.3	978.1
130°	976.3	987.4	996.6	1005.9	1009.5	1011.4	1020.6	1026.2	1029.9	1031.7
132.5°	1022.5	1033.6	1042.8	1052.1	1055.8	1059.5	1065.0	1074.3	1076.1	1076.1
135°	1065.0	1076.1	1085.4	1096.5	1098.3	1102.0	1109.4	1114.9	1118.6	1120.5
137.5°	1103.8	1114.9	1126.0	1135.3	1139.0	1140.8	1148.2	1155.6	1159.3	1161.2
140°	1139.0	1150.1	1161.2	1168.6	1170.4	1176.0	1181.5	1188.9	1192.6	1194.4
142.5°	1172.3	1181.5	1190.8	1200.0	1201.8	1205.5	1211.1	1218.5	1222.2	1224.0
145°	1201.8	1211.1	1218.5	1225.9	1227.7	1231.4	1237.0	1242.5	1246.2	1248.1
147.5°	1229.6	1237.0	1244.4	1249.9	1251.8	1255.5	1259.2	1262.9	1266.6	1268.4
150°	1253.6	1257.3	1264.7	1268.4	1270.3	1274.0	1277.7	1281.4	1285.0	1286.9
152.5°	1272.1	1277.7	1281.4	1286.9	1288.7	1290.6	1294.3	1298.0	1301.7	1301.7
155°	1286.9	1292.4	1296.1	1301.7	1303.5	1305.4	1309.1	1310.9	1314.6	1314.6
157.5°	1298.0	1303.5	1307.2	1310.9	1312.8	1314.6	1316.5	1320.2	1323.9	1323.9
160°	1310.9	1312.8	1314.6	1318.3	1318.3	1320.2	1322.0	1323.9	1327.6	1327.6
162.5°	1322.0	1323.9	1320.2	1322.0	1320.2	1322.0	1323.9	1325.7	1327.6	1327.6
165°	1325.7	1329.4	1327.6	1329.4	1329.4	1329.4	1329.4	1331.3	1331.3	1331.3
167.5°	1325.7	1329.4	1327.6	1327.6	1329.4	1329.4	1331.3	1333.1	1333.1	1333.1
170°	1325.7	1327.6	1325.7	1323.9	1325.7	1325.7	1325.7	1327.6	1327.6	1327.6
172.5°	1323.9	1325.7	1322.0	1320.2	1320.2	1320.2	1318.3	1318.3	1316.5	1316.5
175°	1322.0	1322.0	1318.3	1316.5	1316.5	1316.5	1312.8	1310.9	1309.1	1307.2
177.5°	1320.2	1320.2	1314.6	1312.8	1312.8	1310.9	1310.9	1307.2	1307.2	1305.4
180°	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5	1316.5

(END OF REPORT)