

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: P395641

Luminaire Tested: **I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395641
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 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
8000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5647.9 lumens
Efficiency: N/A
Efficacy: 88.7 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

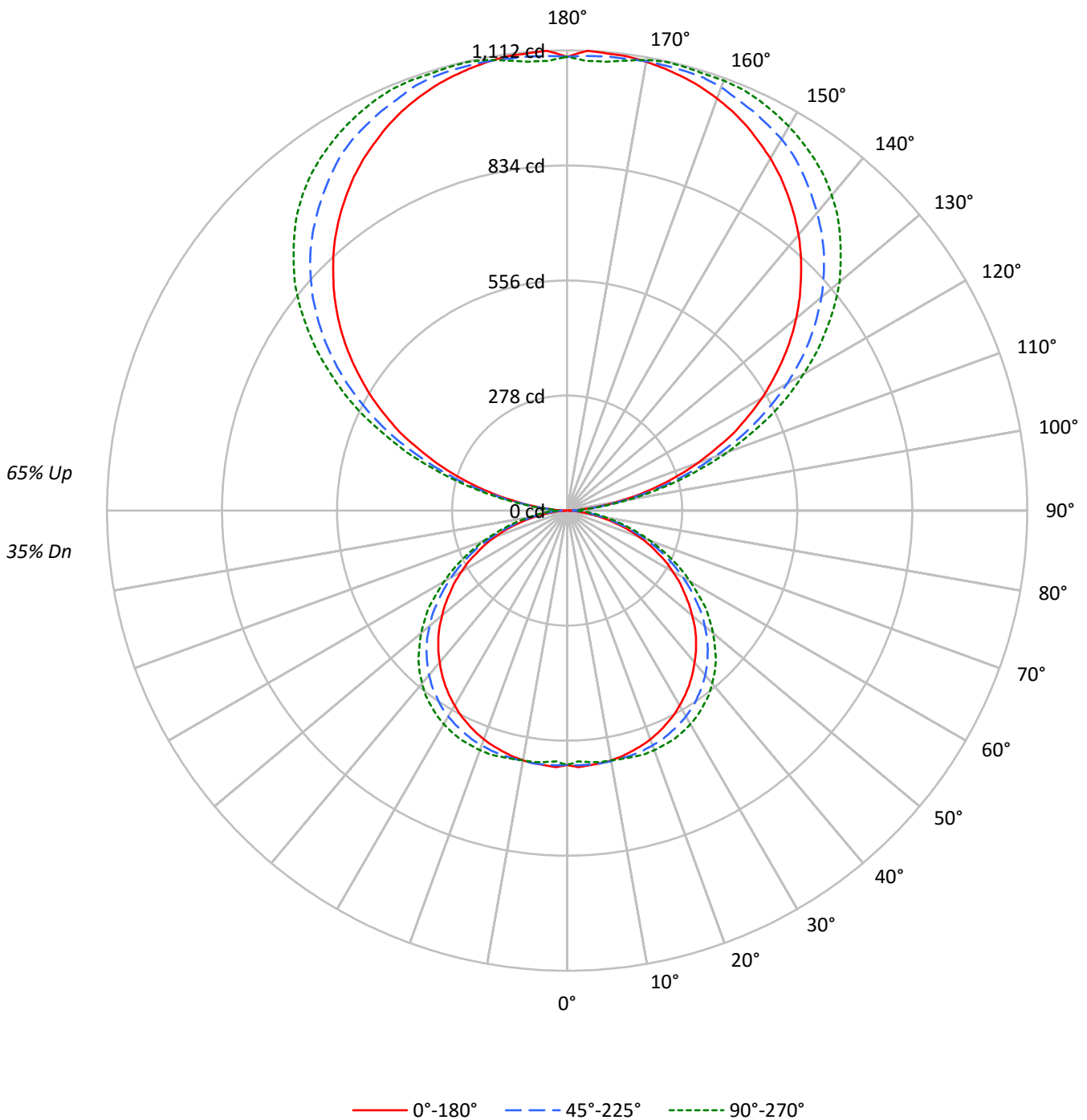
Input Watts (W): 63.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

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°	3378	3378	3378
5°	3395	3322	3270
10°	3396	3276	3231
15°	3388	3248	3218
20°	3389	3220	3214
25°	3379	3191	3201
30°	3368	3161	3172
35°	3352	3110	3125
40°	3318	3045	3057
45°	3284	2951	2963
50°	3209	2820	2818
55°	3117	2642	2649
60°	3012	2434	2394
65°	2864	2182	2126
70°	2659	1859	1796
75°	2315	1478	1428
80°	1805	1050	1046
85°	980	601	687



TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.0
10°-20°	172.3	3.1
20°-30°	271.8	4.8
30°-40°	341.6	6.0
40°-50°	367.2	6.5
50°-60°	337.8	6.0
60°-70°	258.8	4.6
70°-80°	147.4	2.6
80°-90°	46.0	0.8
90°-100°	61.5	1.1
100°-110°	267.7	4.7
110°-120°	490.0	8.7
120°-130°	631.6	11.2
130°-140°	672.1	11.9
140°-150°	618.4	10.9
150°-160°	489.9	8.7
160°-170°	310.2	5.5
170°-180°	105.0	1.9
0°-30°	502.7	8.9
0°-40°	844.2	14.9
0°-60°	1549.3	27.4
0°-90°	2001.5	35.4
90°-120°	819.2	14.5
90°-150°	2741.3	48.5
90°-180°	3646.0	64.6
0°-180°	5647.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	618	611	616	613	610	59
15°	602	599	611	616	616	170
25°	568	570	591	605	610	262
35°	514	521	550	568	574	322
45°	440	451	480	501	508	339
55°	345	359	380	400	408	309
65°	240	248	263	276	280	238
75°	126	129	139	146	151	134
85°	23	29	38	49	52	29
90°	2	5	14	20	23	3
95°	42	40	45	51	52	52
105°	226	237	256	271	276	241
115°	445	465	502	528	542	437
125°	636	664	715	750	766	568
135°	799	826	878	915	933	617
145°	930	950	993	1023	1040	582
155°	1026	1038	1064	1086	1095	473
165°	1084	1084	1100	1107	1109	306
175°	1109	1101	1101	1097	1089	106
180°	1097	1097	1097	1097	1097	



TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5
2.5°	620.7	619.1	617.6	614.5	614.5	613.0	613.0	613.0	613.0	614.5	616.1
5°	617.6	617.6	616.1	613.0	613.0	611.4	611.4	613.0	611.4	613.0	616.1
7.5°	616.1	616.1	614.5	611.4	611.4	611.4	611.4	611.4	611.4	613.0	616.1
10°	613.0	613.0	609.9	608.4	608.4	608.4	608.4	609.9	609.9	611.4	614.5
12.5°	608.4	606.8	605.3	603.7	603.7	603.7	605.3	606.8	606.8	609.9	613.0
15°	602.2	602.2	600.7	599.1	599.1	599.1	600.7	602.2	603.7	606.8	611.4
17.5°	596.0	596.0	594.5	594.5	594.5	594.5	596.0	597.6	600.7	603.7	608.4
20°	588.3	588.3	586.8	586.8	586.8	588.3	588.3	591.4	594.5	599.1	603.7
22.5°	579.1	579.1	579.1	577.6	579.1	580.6	582.2	585.3	588.3	593.0	599.1
25°	568.3	568.3	568.3	568.3	569.9	569.9	572.9	576.0	579.1	585.3	591.4
27.5°	557.5	557.5	557.5	556.0	559.1	560.6	562.2	566.8	569.9	577.6	583.7
30°	543.7	543.7	543.7	545.2	546.8	548.3	551.4	556.0	559.1	566.8	574.5
32.5°	529.8	529.8	529.8	529.8	534.4	536.0	537.5	542.1	548.3	556.0	563.7
35°	514.4	514.4	514.4	516.0	519.0	520.6	523.7	528.3	534.4	542.1	549.8
37.5°	497.5	499.0	499.0	500.6	503.6	506.7	509.8	514.4	520.6	528.3	536.0
40°	479.0	480.5	480.5	482.1	485.2	488.2	491.3	497.5	503.6	511.3	519.0
42.5°	460.5	462.0	462.0	465.1	468.2	471.3	474.4	480.5	486.7	494.4	500.6
45°	440.5	442.0	442.0	445.1	449.7	451.3	455.9	462.0	468.2	474.4	480.5
47.5°	418.9	420.5	420.5	423.5	428.2	431.2	434.3	440.5	445.1	452.8	459.0
50°	394.3	395.8	397.4	400.4	406.6	409.7	412.8	417.4	423.5	428.2	434.3
52.5°	371.2	371.2	372.7	375.8	380.4	383.5	385.0	389.7	397.4	403.5	409.7
55°	345.0	346.5	348.1	351.2	355.8	358.9	360.4	365.0	369.6	374.3	380.4
57.5°	321.9	321.9	323.4	326.5	331.1	332.7	334.2	337.3	343.5	348.1	352.7
60°	294.2	295.7	297.3	300.3	303.4	306.5	306.5	311.1	315.7	320.4	323.4
62.5°	269.5	269.5	271.1	274.1	275.7	278.8	278.8	283.4	286.5	291.1	294.2
65°	240.3	241.8	243.3	244.9	248.0	248.0	249.5	252.6	255.7	258.7	263.4
67.5°	214.1	214.1	215.6	217.2	218.7	218.7	220.2	223.3	226.4	229.5	232.6
70°	184.8	186.4	186.4	186.4	187.9	189.4	191.0	192.5	195.6	197.1	200.2
72.5°	155.6	155.6	157.1	157.1	158.6	160.2	161.7	163.3	164.8	167.9	169.4
75°	126.3	126.3	127.8	127.8	129.4	129.4	129.4	132.5	134.0	137.1	138.6
77.5°	97.0	98.6	98.6	98.6	100.1	101.7	101.7	103.2	106.3	107.8	109.4
80°	70.8	70.8	70.8	70.8	72.4	73.9	75.5	75.5	78.5	81.6	83.2
82.5°	44.7	44.7	46.2	47.7	47.7	49.3	50.8	52.4	55.4	57.0	58.5
85°	23.1	23.1	24.6	26.2	27.7	29.3	29.3	30.8	33.9	37.0	38.5
87.5°	7.7	9.2	9.2	10.8	12.3	13.9	15.4	16.9	20.0	23.1	24.6
90°	1.5	1.5	1.5	3.1	4.6	4.6	6.2	7.7	9.2	10.8	13.9
92.5°	13.9	13.9	12.3	13.9	13.9	13.9	13.9	15.4	16.9	16.9	20.0
95°	41.6	40.0	40.0	40.0	40.0	40.0	40.0	41.6	43.1	43.1	44.7
97.5°	80.1	80.1	78.5	78.5	80.1	80.1	80.1	81.6	84.7	83.2	86.2
100°	124.8	124.8	123.2	124.8	126.3	127.8	130.9	130.9	134.0	134.0	138.6
102.5°	175.6	175.6	174.0	177.1	178.7	181.7	181.7	184.8	189.4	189.4	195.6
105°	226.4	227.9	227.9	231.0	234.1	237.2	237.2	241.8	248.0	248.0	255.7
107.5°	281.9	283.4	283.4	286.5	289.6	292.6	294.2	300.3	306.5	308.0	317.3
110°	335.8	337.3	338.8	341.9	345.0	349.6	352.7	358.9	366.6	369.6	377.3



TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	386.6	392.7	394.3	398.9	403.5	408.1	411.2	418.9	428.2	432.8	442.0
115°	445.1	448.2	449.7	454.3	460.5	465.1	468.2	475.9	485.2	491.3	502.1
117.5°	492.9	500.6	502.1	506.7	512.9	517.5	520.6	529.8	540.6	548.3	559.1
120°	543.7	549.8	556.0	559.1	563.7	569.9	572.9	582.2	594.5	602.2	614.5
122.5°	589.9	596.0	602.2	606.8	613.0	616.1	620.7	631.5	643.8	653.0	665.4
125°	636.1	643.8	648.4	653.0	660.7	663.8	668.4	679.2	691.5	702.3	714.6
127.5°	680.8	685.4	693.1	696.2	703.9	706.9	711.6	723.9	736.2	747.0	759.3
130°	722.3	728.5	734.7	736.2	745.4	750.1	754.7	765.5	779.3	790.1	802.4
132.5°	762.4	765.5	773.2	777.8	785.5	790.1	794.7	804.0	817.8	828.6	840.9
135°	799.3	802.4	811.7	816.3	820.9	825.5	831.7	840.9	854.8	865.6	877.9
137.5°	836.3	839.4	848.6	853.3	856.3	861.0	865.6	874.8	888.7	899.5	910.2
140°	870.2	873.3	879.4	885.6	888.7	891.8	896.4	905.6	917.9	928.7	939.5
142.5°	901.0	904.1	910.2	916.4	921.0	921.0	925.6	933.3	947.2	958.0	967.2
145°	930.3	931.8	938.0	944.1	950.3	950.3	951.8	959.5	971.8	984.2	993.4
147.5°	958.0	959.5	964.1	970.3	974.9	976.5	979.5	982.6	994.9	1007.3	1018.0
150°	982.6	984.2	987.2	993.4	996.5	999.6	1002.6	1004.2	1013.4	1024.2	1036.5
152.5°	1004.2	1005.7	1008.8	1013.4	1016.5	1019.6	1022.7	1027.3	1031.9	1042.7	1050.4
155°	1025.8	1027.3	1028.8	1033.5	1036.5	1038.1	1039.6	1045.8	1050.4	1056.6	1064.3
157.5°	1044.2	1044.2	1045.8	1048.9	1051.9	1051.9	1053.5	1059.6	1064.3	1070.4	1075.0
160°	1059.6	1059.6	1061.2	1064.3	1064.3	1065.8	1067.3	1072.0	1075.0	1082.7	1088.9
162.5°	1073.5	1072.0	1073.5	1075.0	1075.0	1075.0	1076.6	1079.7	1084.3	1090.4	1096.6
165°	1084.3	1084.3	1084.3	1085.8	1085.8	1084.3	1084.3	1087.4	1090.4	1095.1	1099.7
167.5°	1093.5	1093.5	1092.0	1093.5	1092.0	1092.0	1090.4	1092.0	1093.5	1098.1	1101.2
170°	1101.2	1099.7	1099.7	1099.7	1098.1	1096.6	1096.6	1096.6	1096.6	1099.7	1102.8
172.5°	1107.4	1105.8	1104.3	1104.3	1101.2	1099.7	1099.7	1098.1	1098.1	1099.7	1101.2
175°	1108.9	1107.4	1105.8	1105.8	1102.8	1101.2	1099.7	1099.7	1098.1	1099.7	1101.2
177.5°	1112.0	1110.5	1107.4	1107.4	1104.3	1101.2	1101.2	1099.7	1098.1	1099.7	1099.7
180°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6



TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5
2.5°	617.6	617.6	616.1	614.5	614.5	613.0	611.4	609.9	608.4	606.8
5°	617.6	616.1	614.5	614.5	613.0	613.0	613.0	611.4	609.9	609.9
7.5°	617.6	617.6	616.1	614.5	614.5	614.5	614.5	614.5	613.0	613.0
10°	617.6	616.1	616.1	616.1	614.5	616.1	616.1	614.5	614.5	613.0
12.5°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	614.5
15°	613.0	614.5	614.5	616.1	616.1	616.1	617.6	617.6	616.1	616.1
17.5°	611.4	613.0	614.5	616.1	616.1	616.1	617.6	617.6	617.6	617.6
20°	608.4	609.9	611.4	613.0	613.0	614.5	614.5	616.1	616.1	616.1
22.5°	602.2	603.7	606.8	608.4	609.9	611.4	613.0	613.0	613.0	613.0
25°	596.0	599.1	600.7	603.7	605.3	606.8	608.4	608.4	608.4	609.9
27.5°	588.3	591.4	596.0	597.6	599.1	600.7	602.2	603.7	603.7	603.7
30°	579.1	583.7	586.8	589.9	591.4	593.0	594.5	594.5	596.0	596.0
32.5°	568.3	572.9	576.0	579.1	580.6	582.2	585.3	585.3	586.8	586.8
35°	554.5	559.1	563.7	566.8	568.3	569.9	572.9	574.5	574.5	574.5
37.5°	540.6	545.2	549.8	554.5	556.0	557.5	560.6	560.6	562.2	562.2
40°	523.7	528.3	532.9	537.5	537.5	540.6	542.1	543.7	545.2	545.2
42.5°	506.7	511.3	514.4	519.0	520.6	522.1	523.7	526.7	526.7	528.3
45°	486.7	491.3	494.4	499.0	500.6	502.1	505.2	506.7	508.3	508.3
47.5°	465.1	468.2	471.3	475.9	479.0	480.5	482.1	483.6	485.2	483.6
50°	440.5	443.6	448.2	452.8	454.3	455.9	459.0	459.0	460.5	460.5
52.5°	414.3	418.9	422.0	426.6	428.2	429.7	432.8	432.8	434.3	434.3
55°	385.0	388.1	391.2	398.9	400.4	402.0	405.1	405.1	406.6	408.1
57.5°	357.3	358.9	363.5	366.6	369.6	369.6	371.2	372.7	374.3	374.3
60°	328.1	329.6	332.7	337.3	337.3	338.8	341.9	341.9	343.5	343.5
62.5°	297.3	300.3	303.4	308.0	306.5	308.0	311.1	311.1	312.7	312.7
65°	266.4	268.0	271.1	274.1	275.7	275.7	277.2	278.8	280.3	280.3
67.5°	234.1	237.2	238.7	243.3	241.8	243.3	244.9	244.9	246.4	246.4
70°	203.3	204.8	207.9	209.5	209.5	211.0	212.5	212.5	212.5	214.1
72.5°	172.5	174.0	175.6	177.1	177.1	178.7	180.2	180.2	181.7	181.7
75°	140.2	143.2	144.8	147.9	146.3	147.9	150.9	150.9	150.9	150.9
77.5°	112.4	114.0	117.1	118.6	118.6	118.6	121.7	120.1	121.7	121.7
80°	84.7	86.2	89.3	90.9	90.9	92.4	94.0	94.0	94.0	95.5
82.5°	60.1	63.1	66.2	67.8	67.8	69.3	70.8	70.8	72.4	72.4
85°	41.6	44.7	47.7	47.7	49.3	50.8	52.4	52.4	52.4	52.4
87.5°	27.7	29.3	30.8	32.3	33.9	33.9	35.4	35.4	37.0	37.0
90°	15.4	16.9	18.5	20.0	20.0	21.6	21.6	23.1	23.1	23.1
92.5°	21.6	21.6	23.1	24.6	24.6	24.6	24.6	26.2	26.2	26.2
95°	46.2	47.7	47.7	50.8	50.8	50.8	52.4	52.4	52.4	52.4
97.5°	89.3	89.3	89.3	92.4	92.4	92.4	94.0	94.0	94.0	95.5
100°	140.2	141.7	141.7	146.3	144.8	147.9	147.9	147.9	147.9	149.4
102.5°	197.1	200.2	201.8	206.4	206.4	206.4	209.5	207.9	209.5	209.5
105°	258.7	261.8	263.4	268.0	271.1	271.1	274.1	272.6	274.1	275.7
107.5°	320.4	325.0	328.1	332.7	335.8	337.3	337.3	338.8	340.4	341.9
110°	383.5	388.1	395.8	400.4	402.0	405.1	406.6	408.1	409.7	412.8



TEST NUMBER: P395641

CATALOG NUMBER: I3-FL-80L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	449.7	454.3	460.5	466.7	465.1	469.8	472.8	474.4	475.9	474.4
115°	509.8	516.0	522.1	528.3	528.3	531.4	537.5	539.1	539.1	542.1
117.5°	566.8	574.5	580.6	586.8	588.3	591.4	596.0	600.7	600.7	603.7
120°	622.2	631.5	637.6	643.8	646.9	648.4	653.0	659.2	659.2	659.2
122.5°	674.6	682.3	690.0	696.2	699.2	702.3	705.4	713.1	713.1	716.2
125°	723.9	733.1	740.8	747.0	750.1	753.1	759.3	763.9	765.5	765.5
127.5°	770.1	779.3	787.0	794.7	796.3	799.3	805.5	811.7	813.2	814.7
130°	813.2	822.4	830.1	837.9	840.9	842.5	850.2	854.8	857.9	859.4
132.5°	851.7	861.0	868.7	876.4	879.4	882.5	887.1	894.8	896.4	896.4
135°	887.1	896.4	904.1	913.3	914.9	917.9	924.1	928.7	931.8	933.3
137.5°	919.5	928.7	938.0	945.7	948.7	950.3	956.4	962.6	965.7	967.2
140°	948.7	958.0	967.2	973.4	974.9	979.5	984.2	990.3	993.4	994.9
142.5°	976.5	984.2	991.9	999.6	1001.1	1004.2	1008.8	1015.0	1018.0	1019.6
145°	1001.1	1008.8	1015.0	1021.1	1022.7	1025.8	1030.4	1035.0	1038.1	1039.6
147.5°	1024.2	1030.4	1036.5	1041.2	1042.7	1045.8	1048.9	1051.9	1055.0	1056.6
150°	1044.2	1047.3	1053.5	1056.6	1058.1	1061.2	1064.3	1067.3	1070.4	1072.0
152.5°	1059.6	1064.3	1067.3	1072.0	1073.5	1075.0	1078.1	1081.2	1084.3	1084.3
155°	1072.0	1076.6	1079.7	1084.3	1085.8	1087.4	1090.4	1092.0	1095.1	1095.1
157.5°	1081.2	1085.8	1088.9	1092.0	1093.5	1095.1	1096.6	1099.7	1102.8	1102.8
160°	1092.0	1093.5	1095.1	1098.1	1098.1	1099.7	1101.2	1102.8	1105.8	1105.8
162.5°	1101.2	1102.8	1099.7	1101.2	1099.7	1101.2	1102.8	1104.3	1105.8	1105.8
165°	1104.3	1107.4	1105.8	1107.4	1107.4	1107.4	1107.4	1108.9	1108.9	1108.9
167.5°	1104.3	1107.4	1105.8	1105.8	1107.4	1107.4	1108.9	1110.5	1110.5	1110.5
170°	1104.3	1105.8	1104.3	1102.8	1104.3	1104.3	1104.3	1105.8	1105.8	1105.8
172.5°	1102.8	1104.3	1101.2	1099.7	1099.7	1099.7	1098.1	1098.1	1096.6	1096.6
175°	1101.2	1101.2	1098.1	1096.6	1096.6	1096.6	1093.5	1092.0	1090.4	1088.9
177.5°	1099.7	1099.7	1095.1	1093.5	1093.5	1092.0	1092.0	1088.9	1088.9	1087.4
180°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6

(END OF REPORT)