

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: P395604

Luminaire Tested: **I3-FL-60L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395604
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-60L83050-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, FROSTED TOP COVER
6000 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: 5779.2 lumens
Efficiency: N/A
Efficacy: 128.1 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

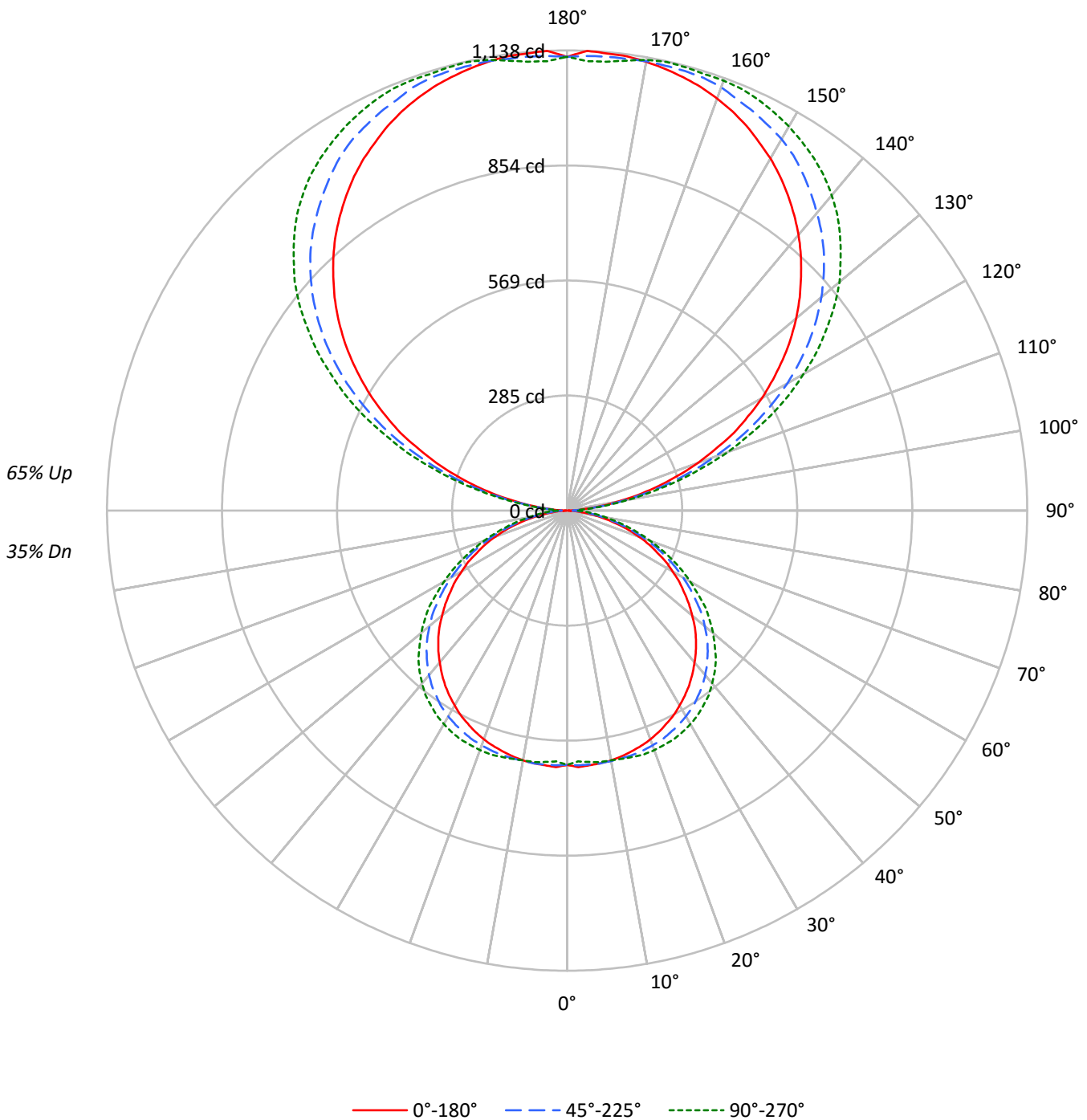
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-FL-60L83050-1D-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	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°	3456	3456	3456
5°	3474	3399	3346
10°	3474	3352	3306
15°	3467	3324	3293
20°	3468	3295	3288
25°	3458	3266	3276
30°	3446	3234	3246
35°	3430	3183	3198
40°	3395	3116	3128
45°	3360	3020	3032
50°	3283	2886	2884
55°	3189	2704	2711
60°	3082	2492	2449
65°	2931	2233	2175
70°	2721	1903	1838
75°	2368	1512	1461
80°	1849	1074	1070
85°	1001	615	703



TEST NUMBER: P395604

CATALOG NUMBER: I3-FL-60L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	1.0
10°-20°	176.3	3.1
20°-30°	278.1	4.8
30°-40°	349.5	6.0
40°-50°	375.8	6.5
50°-60°	345.7	6.0
60°-70°	264.8	4.6
70°-80°	150.8	2.6
80°-90°	47.1	0.8
90°-100°	63.0	1.1
100°-110°	273.9	4.7
110°-120°	501.4	8.7
120°-130°	646.3	11.2
130°-140°	687.7	11.9
140°-150°	632.7	10.9
150°-160°	501.3	8.7
160°-170°	317.4	5.5
170°-180°	107.5	1.9
0°-30°	514.4	8.9
0°-40°	863.9	14.9
0°-60°	1585.3	27.4
0°-90°	2048.0	35.4
90°-120°	838.3	14.5
90°-150°	2805.0	48.5
90°-180°	3731.0	64.6
0°-180°	5779.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	632	626	630	627	624	60
15°	616	613	626	630	630	174
25°	582	583	605	619	624	268
35°	526	533	563	582	588	329
45°	451	462	492	512	520	347
55°	353	367	389	410	418	316
65°	246	254	270	282	287	244
75°	129	132	142	150	154	137
85°	24	30	39	50	54	30
90°	2	5	14	20	24	3
95°	43	41	46	52	54	53
105°	232	243	262	277	282	247
115°	456	476	514	541	555	447
125°	651	679	731	768	783	581
135°	818	845	898	936	955	631
145°	952	972	1016	1046	1064	596
155°	1050	1062	1089	1111	1120	484
165°	1110	1110	1125	1133	1135	314
175°	1135	1127	1127	1122	1114	108
180°	1122	1122	1122	1122	1122	



TEST NUMBER: P395604

CATALOG NUMBER: I3-FL-60L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	635.1	633.5	632.0	628.8	628.8	627.2	627.2	627.2	627.2	628.8	630.4
5°	632.0	632.0	630.4	627.2	627.2	625.7	625.7	627.2	625.7	627.2	630.4
7.5°	630.4	630.4	628.8	625.7	625.7	625.7	625.7	625.7	625.7	627.2	630.4
10°	627.2	627.2	624.1	622.5	622.5	622.5	622.5	624.1	624.1	625.7	628.8
12.5°	622.5	620.9	619.4	617.8	617.8	617.8	619.4	620.9	620.9	624.1	627.2
15°	616.2	616.2	614.6	613.1	613.1	613.1	614.6	616.2	617.8	620.9	625.7
17.5°	609.9	609.9	608.3	608.3	608.3	608.3	609.9	611.5	614.6	617.8	622.5
20°	602.0	602.0	600.4	600.4	600.4	602.0	602.0	605.2	608.3	613.1	617.8
22.5°	592.6	592.6	592.6	591.0	592.6	594.1	595.7	598.9	602.0	606.8	613.1
25°	581.5	581.5	581.5	581.5	583.1	583.1	586.3	589.4	592.6	598.9	605.2
27.5°	570.5	570.5	570.5	568.9	572.1	573.7	575.2	580.0	583.1	591.0	597.3
30°	556.3	556.3	556.3	557.9	559.5	561.0	564.2	568.9	572.1	580.0	587.8
32.5°	542.1	542.1	542.1	542.1	546.9	548.4	550.0	554.7	561.0	568.9	576.8
35°	526.4	526.4	526.4	528.0	531.1	532.7	535.8	540.6	546.9	554.7	562.6
37.5°	509.0	510.6	510.6	512.2	515.3	518.5	521.6	526.4	532.7	540.6	548.4
40°	490.1	491.7	491.7	493.3	496.4	499.6	502.7	509.0	515.3	523.2	531.1
42.5°	471.2	472.8	472.8	475.9	479.1	482.2	485.4	491.7	498.0	505.9	512.2
45°	450.7	452.3	452.3	455.5	460.2	461.8	466.5	472.8	479.1	485.4	491.7
47.5°	428.7	430.2	430.2	433.4	438.1	441.3	444.4	450.7	455.5	463.3	469.6
50°	403.4	405.0	406.6	409.8	416.1	419.2	422.4	427.1	433.4	438.1	444.4
52.5°	379.8	379.8	381.4	384.5	389.3	392.4	394.0	398.7	406.6	412.9	419.2
55°	353.0	354.6	356.2	359.3	364.1	367.2	368.8	373.5	378.2	383.0	389.3
57.5°	329.4	329.4	331.0	334.1	338.8	340.4	342.0	345.1	351.4	356.2	360.9
60°	301.0	302.6	304.2	307.3	310.5	313.6	313.6	318.3	323.1	327.8	331.0
62.5°	275.8	275.8	277.4	280.5	282.1	285.3	285.3	290.0	293.1	297.9	301.0
65°	245.9	247.4	249.0	250.6	253.7	253.7	255.3	258.5	261.6	264.8	269.5
67.5°	219.1	219.1	220.6	222.2	223.8	223.8	225.4	228.5	231.7	234.8	238.0
70°	189.1	190.7	190.7	190.7	192.3	193.8	195.4	197.0	200.1	201.7	204.9
72.5°	159.2	159.2	160.7	160.7	162.3	163.9	165.5	167.1	168.6	171.8	173.4
75°	129.2	129.2	130.8	130.8	132.4	132.4	132.4	135.5	137.1	140.3	141.8
77.5°	99.3	100.9	100.9	100.9	102.4	104.0	104.0	105.6	108.7	110.3	111.9
80°	72.5	72.5	72.5	72.5	74.1	75.6	77.2	77.2	80.4	83.5	85.1
82.5°	45.7	45.7	47.3	48.9	48.9	50.4	52.0	53.6	56.7	58.3	59.9
85°	23.6	23.6	25.2	26.8	28.4	29.9	29.9	31.5	34.7	37.8	39.4
87.5°	7.9	9.5	9.5	11.0	12.6	14.2	15.8	17.3	20.5	23.6	25.2
90°	1.6	1.6	1.6	3.2	4.7	4.7	6.3	7.9	9.5	11.0	14.2
92.5°	14.2	14.2	12.6	14.2	14.2	14.2	14.2	15.8	17.3	17.3	20.5
95°	42.6	41.0	41.0	41.0	41.0	41.0	41.0	42.6	44.1	44.1	45.7
97.5°	82.0	82.0	80.4	80.4	82.0	82.0	82.0	83.5	86.7	85.1	88.3
100°	127.7	127.7	126.1	127.7	129.2	130.8	134.0	134.0	137.1	137.1	141.8
102.5°	179.7	179.7	178.1	181.2	182.8	186.0	186.0	189.1	193.8	193.8	200.1
105°	231.7	233.2	233.2	236.4	239.5	242.7	242.7	247.4	253.7	253.7	261.6
107.5°	288.4	290.0	290.0	293.1	296.3	299.4	301.0	307.3	313.6	315.2	324.7
110°	343.6	345.1	346.7	349.9	353.0	357.7	360.9	367.2	375.1	378.2	386.1



TEST NUMBER: P395604

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	395.6	401.9	403.4	408.2	412.9	417.6	420.8	428.7	438.1	442.8	452.3
115°	455.5	458.6	460.2	464.9	471.2	475.9	479.1	487.0	496.4	502.7	513.8
117.5°	504.3	512.2	513.8	518.5	524.8	529.5	532.7	542.1	553.2	561.0	572.1
120°	556.3	562.6	568.9	572.1	576.8	583.1	586.3	595.7	608.3	616.2	628.8
122.5°	603.6	609.9	616.2	620.9	627.2	630.4	635.1	646.1	658.8	668.2	680.8
125°	650.9	658.8	663.5	668.2	676.1	679.2	684.0	695.0	707.6	718.6	731.3
127.5°	696.6	701.3	709.2	712.3	720.2	723.4	728.1	740.7	753.3	764.3	777.0
130°	739.1	745.4	751.7	753.3	762.8	767.5	772.2	783.3	797.4	808.5	821.1
132.5°	780.1	783.3	791.1	795.9	803.7	808.5	813.2	822.7	836.8	847.9	860.5
135°	817.9	821.1	830.5	835.3	840.0	844.7	851.0	860.5	874.7	885.7	898.3
137.5°	855.8	858.9	868.4	873.1	876.2	881.0	885.7	895.2	909.3	920.4	931.4
140°	890.4	893.6	899.9	906.2	909.3	912.5	917.2	926.7	939.3	950.3	961.3
142.5°	921.9	925.1	931.4	937.7	942.4	942.4	947.2	955.0	969.2	980.3	989.7
145°	951.9	953.5	959.8	966.1	972.4	972.4	974.0	981.8	994.4	1007.0	1016.5
147.5°	980.3	981.8	986.6	992.9	997.6	999.2	1002.3	1005.5	1018.1	1030.7	1041.7
150°	1005.5	1007.0	1010.2	1016.5	1019.7	1022.8	1026.0	1027.5	1037.0	1048.0	1060.6
152.5°	1027.5	1029.1	1032.3	1037.0	1040.1	1043.3	1046.4	1051.2	1055.9	1066.9	1074.8
155°	1049.6	1051.2	1052.8	1057.5	1060.6	1062.2	1063.8	1070.1	1074.8	1081.1	1089.0
157.5°	1068.5	1068.5	1070.1	1073.2	1076.4	1076.4	1078.0	1084.3	1089.0	1095.3	1100.0
160°	1084.3	1084.3	1085.8	1089.0	1089.0	1090.6	1092.2	1096.9	1100.0	1107.9	1114.2
162.5°	1098.5	1096.9	1098.5	1100.0	1100.0	1100.0	1101.6	1104.8	1109.5	1115.8	1122.1
165°	1109.5	1109.5	1109.5	1111.1	1111.1	1109.5	1109.5	1112.6	1115.8	1120.5	1125.2
167.5°	1118.9	1118.9	1117.4	1118.9	1117.4	1117.4	1115.8	1117.4	1118.9	1123.7	1126.8
170°	1126.8	1125.2	1125.2	1125.2	1123.7	1122.1	1122.1	1122.1	1122.1	1125.2	1128.4
172.5°	1133.1	1131.5	1130.0	1130.0	1126.8	1125.2	1125.2	1123.7	1123.7	1125.2	1126.8
175°	1134.7	1133.1	1131.5	1131.5	1128.4	1126.8	1125.2	1125.2	1123.7	1125.2	1126.8
177.5°	1137.9	1136.3	1133.1	1133.1	1130.0	1126.8	1126.8	1125.2	1123.7	1125.2	1125.2
180°	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8	628.8
2.5°	632.0	632.0	630.4	628.8	628.8	627.2	625.7	624.1	622.5	620.9
5°	632.0	630.4	628.8	628.8	627.2	627.2	627.2	625.7	624.1	624.1
7.5°	632.0	632.0	630.4	628.8	628.8	628.8	628.8	628.8	627.2	627.2
10°	632.0	630.4	630.4	630.4	628.8	630.4	630.4	628.8	628.8	627.2
12.5°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	628.8
15°	627.2	628.8	628.8	630.4	630.4	630.4	632.0	632.0	630.4	630.4
17.5°	625.7	627.2	628.8	630.4	630.4	630.4	632.0	632.0	632.0	632.0
20°	622.5	624.1	625.7	627.2	627.2	628.8	628.8	630.4	630.4	630.4
22.5°	616.2	617.8	620.9	622.5	624.1	625.7	627.2	627.2	627.2	627.2
25°	609.9	613.1	614.6	617.8	619.4	620.9	622.5	622.5	622.5	624.1
27.5°	602.0	605.2	609.9	611.5	613.1	614.6	616.2	617.8	617.8	617.8
30°	592.6	597.3	600.4	603.6	605.2	606.8	608.3	608.3	609.9	609.9
32.5°	581.5	586.3	589.4	592.6	594.1	595.7	598.9	598.9	600.4	600.4
35°	567.4	572.1	576.8	580.0	581.5	583.1	586.3	587.8	587.8	587.8
37.5°	553.2	557.9	562.6	567.4	568.9	570.5	573.7	573.7	575.2	575.2
40°	535.8	540.6	545.3	550.0	550.0	553.2	554.7	556.3	557.9	557.9
42.5°	518.5	523.2	526.4	531.1	532.7	534.3	535.8	539.0	539.0	540.6
45°	498.0	502.7	505.9	510.6	512.2	513.8	516.9	518.5	520.1	520.1
47.5°	475.9	479.1	482.2	487.0	490.1	491.7	493.3	494.9	496.4	494.9
50°	450.7	453.9	458.6	463.3	464.9	466.5	469.6	469.6	471.2	471.2
52.5°	423.9	428.7	431.8	436.5	438.1	439.7	442.8	442.8	444.4	444.4
55°	394.0	397.1	400.3	408.2	409.8	411.3	414.5	414.5	416.1	417.6
57.5°	365.6	367.2	371.9	375.1	378.2	378.2	379.8	381.4	383.0	383.0
60°	335.7	337.3	340.4	345.1	345.1	346.7	349.9	349.9	351.4	351.4
62.5°	304.2	307.3	310.5	315.2	313.6	315.2	318.3	318.3	319.9	319.9
65°	272.6	274.2	277.4	280.5	282.1	282.1	283.7	285.3	286.8	286.8
67.5°	239.5	242.7	244.3	249.0	247.4	249.0	250.6	250.6	252.2	252.2
70°	208.0	209.6	212.8	214.3	214.3	215.9	217.5	217.5	217.5	219.1
72.5°	176.5	178.1	179.7	181.2	181.2	182.8	184.4	184.4	186.0	186.0
75°	143.4	146.6	148.1	151.3	149.7	151.3	154.4	154.4	154.4	154.4
77.5°	115.0	116.6	119.8	121.4	121.4	121.4	124.5	122.9	124.5	124.5
80°	86.7	88.3	91.4	93.0	93.0	94.6	96.1	96.1	96.1	97.7
82.5°	61.5	64.6	67.8	69.3	69.3	70.9	72.5	72.5	74.1	74.1
85°	42.6	45.7	48.9	48.9	50.4	52.0	53.6	53.6	53.6	53.6
87.5°	28.4	29.9	31.5	33.1	34.7	34.7	36.2	36.2	37.8	37.8
90°	15.8	17.3	18.9	20.5	20.5	22.1	22.1	23.6	23.6	23.6
92.5°	22.1	22.1	23.6	25.2	25.2	25.2	25.2	26.8	26.8	26.8
95°	47.3	48.9	48.9	52.0	52.0	52.0	53.6	53.6	53.6	53.6
97.5°	91.4	91.4	91.4	94.6	94.6	94.6	96.1	96.1	96.1	97.7
100°	143.4	145.0	145.0	149.7	148.1	151.3	151.3	151.3	151.3	152.9
102.5°	201.7	204.9	206.5	211.2	211.2	211.2	214.3	212.8	214.3	214.3
105°	264.8	267.9	269.5	274.2	277.4	277.4	280.5	278.9	280.5	282.1
107.5°	327.8	332.5	335.7	340.4	343.6	345.1	345.1	346.7	348.3	349.9
110°	392.4	397.1	405.0	409.8	411.3	414.5	416.1	417.6	419.2	422.4



TEST NUMBER: P395604

CATALOG NUMBER: I3-FL-60L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	460.2	464.9	471.2	477.5	475.9	480.7	483.8	485.4	487.0	485.4
115°	521.6	528.0	534.3	540.6	540.6	543.7	550.0	551.6	551.6	554.7
117.5°	580.0	587.8	594.1	600.4	602.0	605.2	609.9	614.6	614.6	617.8
120°	636.7	646.1	652.5	658.8	661.9	663.5	668.2	674.5	674.5	674.5
122.5°	690.3	698.2	706.0	712.3	715.5	718.6	721.8	729.7	729.7	732.8
125°	740.7	750.2	758.0	764.3	767.5	770.7	777.0	781.7	783.3	783.3
127.5°	788.0	797.4	805.3	813.2	814.8	817.9	824.2	830.5	832.1	833.7
130°	832.1	841.6	849.5	857.3	860.5	862.1	869.9	874.7	877.8	879.4
132.5°	871.5	881.0	888.8	896.7	899.9	903.0	907.8	915.6	917.2	917.2
135°	907.8	917.2	925.1	934.6	936.1	939.3	945.6	950.3	953.5	955.0
137.5°	940.9	950.3	959.8	967.6	970.8	972.4	978.7	985.0	988.1	989.7
140°	970.8	980.3	989.7	996.0	997.6	1002.3	1007.0	1013.4	1016.5	1018.1
142.5°	999.2	1007.0	1014.9	1022.8	1024.4	1027.5	1032.3	1038.6	1041.7	1043.3
145°	1024.4	1032.3	1038.6	1044.9	1046.4	1049.6	1054.3	1059.1	1062.2	1063.8
147.5°	1048.0	1054.3	1060.6	1065.4	1066.9	1070.1	1073.2	1076.4	1079.5	1081.1
150°	1068.5	1071.7	1078.0	1081.1	1082.7	1085.8	1089.0	1092.2	1095.3	1096.9
152.5°	1084.3	1089.0	1092.2	1096.9	1098.5	1100.0	1103.2	1106.3	1109.5	1109.5
155°	1096.9	1101.6	1104.8	1109.5	1111.1	1112.6	1115.8	1117.4	1120.5	1120.5
157.5°	1106.3	1111.1	1114.2	1117.4	1118.9	1120.5	1122.1	1125.2	1128.4	1128.4
160°	1117.4	1118.9	1120.5	1123.7	1123.7	1125.2	1126.8	1128.4	1131.5	1131.5
162.5°	1126.8	1128.4	1125.2	1126.8	1125.2	1126.8	1128.4	1130.0	1131.5	1131.5
165°	1130.0	1133.1	1131.5	1133.1	1133.1	1133.1	1133.1	1134.7	1134.7	1134.7
167.5°	1130.0	1133.1	1131.5	1131.5	1133.1	1133.1	1134.7	1136.3	1136.3	1136.3
170°	1130.0	1131.5	1130.0	1128.4	1130.0	1130.0	1130.0	1131.5	1131.5	1131.5
172.5°	1128.4	1130.0	1126.8	1125.2	1125.2	1125.2	1123.7	1123.7	1122.1	1122.1
175°	1126.8	1126.8	1123.7	1122.1	1122.1	1122.1	1118.9	1117.4	1115.8	1114.2
177.5°	1125.2	1125.2	1120.5	1118.9	1118.9	1117.4	1117.4	1114.2	1114.2	1112.6
180°	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1	1122.1

(END OF REPORT)