

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: P395552

Luminaire Tested: **I3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395552
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-40L83050-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, FROSTED TOP COVER
4000 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: 3842.4 lumens
Efficiency: N/A
Efficacy: 134.8 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

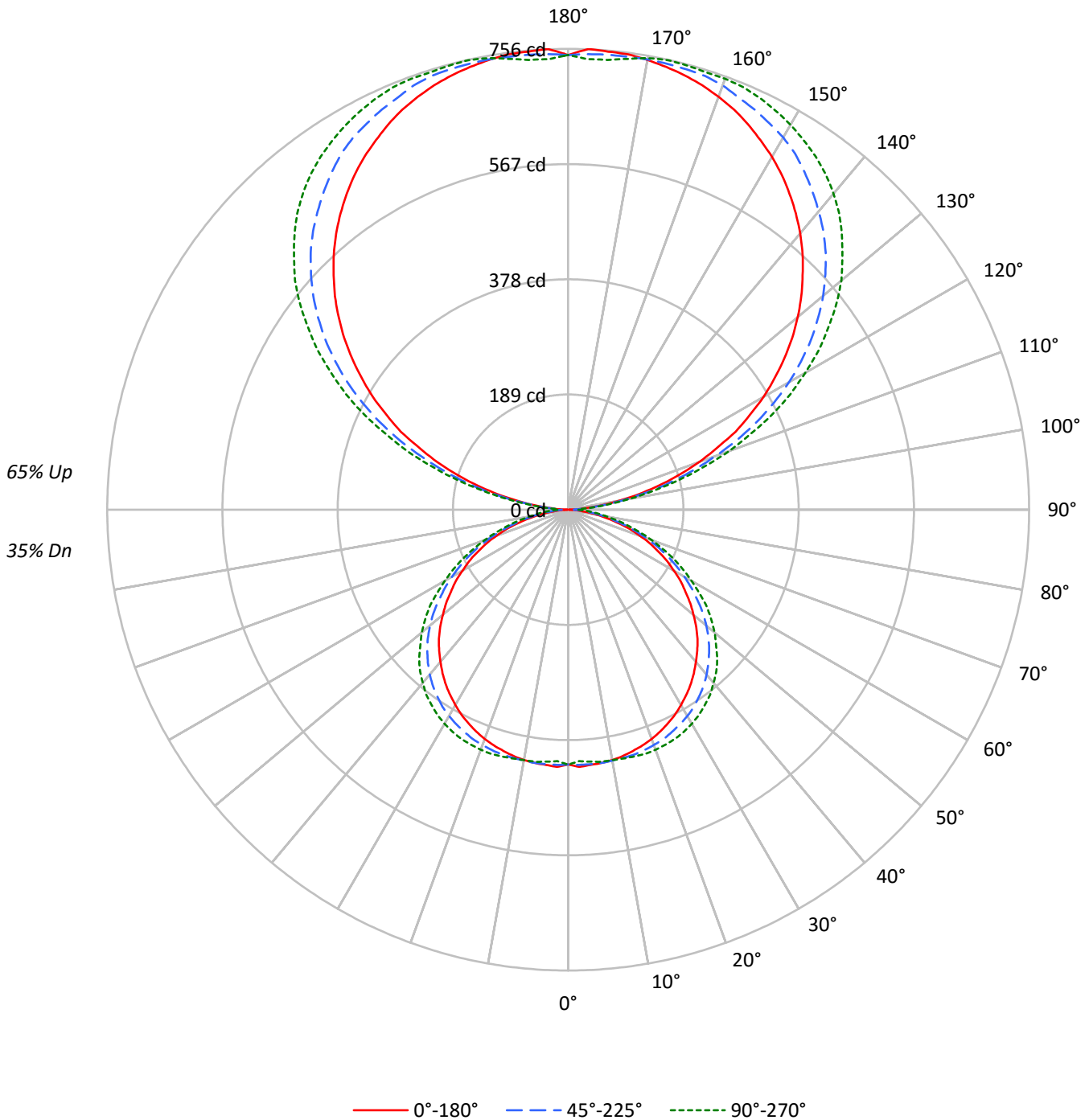
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2298	2298	2298
5°	2310	2260	2224
10°	2310	2229	2198
15°	2305	2210	2189
20°	2306	2190	2186
25°	2299	2171	2178
30°	2291	2150	2158
35°	2281	2116	2126
40°	2258	2072	2080
45°	2235	2007	2016
50°	2183	1919	1917
55°	2120	1798	1803
60°	2049	1656	1629
65°	1949	1484	1446
70°	1809	1265	1221
75°	1574	1005	972
80°	1229	715	712
85°	666	409	467



TEST NUMBER: P395552

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.0
10°-20°	117.2	3.1
20°-30°	184.9	4.8
30°-40°	232.4	6.0
40°-50°	249.8	6.5
50°-60°	229.8	6.0
60°-70°	176.1	4.6
70°-80°	100.3	2.6
80°-90°	31.3	0.8
90°-100°	41.9	1.1
100°-110°	182.1	4.7
110°-120°	333.4	8.7
120°-130°	429.7	11.2
130°-140°	457.2	11.9
140°-150°	420.7	10.9
150°-160°	333.3	8.7
160°-170°	211.0	5.5
170°-180°	71.4	1.9
0°-30°	342.0	8.9
0°-40°	574.3	14.9
0°-60°	1054.0	27.4
0°-90°	1361.6	35.4
90°-120°	557.3	14.5
90°-150°	1865.0	48.5
90°-180°	2481.0	64.6
0°-180°	3842.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	420	416	419	417	415	40
15°	410	408	416	419	419	116
25°	387	388	402	412	415	178
35°	350	354	374	387	391	219
45°	300	307	327	340	346	231
55°	235	244	259	272	278	210
65°	164	169	179	188	191	162
75°	86	88	94	100	103	91
85°	16	20	26	34	36	20
90°	1	3	9	14	16	2
95°	28	27	30	35	36	35
105°	154	161	174	184	188	164
115°	303	316	342	359	369	297
125°	433	452	486	510	521	386
135°	544	562	597	622	635	420
145°	633	646	676	696	707	396
155°	698	706	724	739	745	322
165°	738	738	748	753	754	208
175°	754	749	749	746	741	72
180°	746	746	746	746	746	



TEST NUMBER: P395552

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1
2.5°	422.3	421.2	420.2	418.1	418.1	417.0	417.0	417.0	417.0	418.1	419.1
5°	420.2	420.2	419.1	417.0	417.0	416.0	416.0	417.0	416.0	417.0	419.1
7.5°	419.1	419.1	418.1	416.0	416.0	416.0	416.0	416.0	416.0	417.0	419.1
10°	417.0	417.0	414.9	413.9	413.9	413.9	413.9	414.9	414.9	416.0	418.1
12.5°	413.9	412.8	411.8	410.7	410.7	410.7	411.8	412.8	412.8	414.9	417.0
15°	409.7	409.7	408.6	407.6	407.6	407.6	408.6	409.7	410.7	412.8	416.0
17.5°	405.5	405.5	404.5	404.5	404.5	404.5	405.5	406.5	408.6	410.7	413.9
20°	400.3	400.3	399.2	399.2	399.2	400.3	400.3	402.4	404.5	407.6	410.7
22.5°	394.0	394.0	394.0	392.9	394.0	395.0	396.1	398.2	400.3	403.4	407.6
25°	386.6	386.6	386.6	386.6	387.7	387.7	389.8	391.9	394.0	398.2	402.4
27.5°	379.3	379.3	379.3	378.3	380.4	381.4	382.4	385.6	387.7	392.9	397.1
30°	369.9	369.9	369.9	370.9	372.0	373.0	375.1	378.3	380.4	385.6	390.8
32.5°	360.4	360.4	360.4	360.4	363.6	364.6	365.7	368.8	373.0	378.3	383.5
35°	350.0	350.0	350.0	351.0	353.1	354.2	356.3	359.4	363.6	368.8	374.1
37.5°	338.4	339.5	339.5	340.5	342.6	344.7	346.8	350.0	354.2	359.4	364.6
40°	325.9	326.9	326.9	328.0	330.1	332.2	334.2	338.4	342.6	347.9	353.1
42.5°	313.3	314.3	314.3	316.4	318.5	320.6	322.7	326.9	331.1	336.3	340.5
45°	299.7	300.7	300.7	302.8	306.0	307.0	310.1	314.3	318.5	322.7	326.9
47.5°	285.0	286.1	286.1	288.1	291.3	293.4	295.5	299.7	302.8	308.1	312.2
50°	268.2	269.3	270.3	272.4	276.6	278.7	280.8	284.0	288.1	291.3	295.5
52.5°	252.5	252.5	253.6	255.7	258.8	260.9	262.0	265.1	270.3	274.5	278.7
55°	234.7	235.8	236.8	238.9	242.0	244.1	245.2	248.3	251.5	254.6	258.8
57.5°	219.0	219.0	220.0	222.1	225.3	226.3	227.4	229.5	233.7	236.8	239.9
60°	200.1	201.2	202.2	204.3	206.4	208.5	208.5	211.7	214.8	217.9	220.0
62.5°	183.4	183.4	184.4	186.5	187.6	189.7	189.7	192.8	194.9	198.0	200.1
65°	163.5	164.5	165.6	166.6	168.7	168.7	169.7	171.8	173.9	176.0	179.2
67.5°	145.6	145.6	146.7	147.7	148.8	148.8	149.8	151.9	154.0	156.1	158.2
70°	125.7	126.8	126.8	126.8	127.8	128.9	129.9	131.0	133.1	134.1	136.2
72.5°	105.8	105.8	106.9	106.9	107.9	109.0	110.0	111.1	112.1	114.2	115.3
75°	85.9	85.9	87.0	87.0	88.0	88.0	88.0	90.1	91.2	93.3	94.3
77.5°	66.0	67.1	67.1	67.1	68.1	69.2	69.2	70.2	72.3	73.3	74.4
80°	48.2	48.2	48.2	48.2	49.2	50.3	51.3	51.3	53.4	55.5	56.6
82.5°	30.4	30.4	31.4	32.5	32.5	33.5	34.6	35.6	37.7	38.8	39.8
85°	15.7	15.7	16.8	17.8	18.9	19.9	19.9	21.0	23.1	25.1	26.2
87.5°	5.2	6.3	6.3	7.3	8.4	9.4	10.5	11.5	13.6	15.7	16.8
90°	1.0	1.0	1.0	2.1	3.1	3.1	4.2	5.2	6.3	7.3	9.4
92.5°	9.4	9.4	8.4	9.4	9.4	9.4	9.4	10.5	11.5	11.5	13.6
95°	28.3	27.2	27.2	27.2	27.2	27.2	27.2	28.3	29.3	29.3	30.4
97.5°	54.5	54.5	53.4	53.4	54.5	54.5	54.5	55.5	57.6	56.6	58.7
100°	84.9	84.9	83.8	84.9	85.9	87.0	89.1	89.1	91.2	91.2	94.3
102.5°	119.4	119.4	118.4	120.5	121.5	123.6	123.6	125.7	128.9	128.9	133.1
105°	154.0	155.1	155.1	157.2	159.3	161.4	161.4	164.5	168.7	168.7	173.9
107.5°	191.7	192.8	192.8	194.9	197.0	199.1	200.1	204.3	208.5	209.6	215.8
110°	228.4	229.5	230.5	232.6	234.7	237.9	239.9	244.1	249.4	251.5	256.7



TEST NUMBER: P395552

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	263.0	267.2	268.2	271.4	274.5	277.7	279.8	285.0	291.3	294.4	300.7
115°	302.8	304.9	306.0	309.1	313.3	316.4	318.5	323.8	330.1	334.2	341.6
117.5°	335.3	340.5	341.6	344.7	348.9	352.1	354.2	360.4	367.8	373.0	380.4
120°	369.9	374.1	378.3	380.4	383.5	387.7	389.8	396.1	404.5	409.7	418.1
122.5°	401.3	405.5	409.7	412.8	417.0	419.1	422.3	429.6	438.0	444.3	452.7
125°	432.7	438.0	441.1	444.3	449.5	451.6	454.7	462.1	470.5	477.8	486.2
127.5°	463.1	466.3	471.5	473.6	478.8	480.9	484.1	492.5	500.8	508.2	516.6
130°	491.4	495.6	499.8	500.8	507.1	510.3	513.4	520.8	530.2	537.5	545.9
132.5°	518.7	520.8	526.0	529.1	534.4	537.5	540.7	547.0	556.4	563.7	572.1
135°	543.8	545.9	552.2	555.3	558.5	561.6	565.8	572.1	581.5	588.9	597.2
137.5°	569.0	571.1	577.3	580.5	582.6	585.7	588.9	595.2	604.6	611.9	619.3
140°	592.0	594.1	598.3	602.5	604.6	606.7	609.8	616.1	624.5	631.8	639.2
142.5°	613.0	615.1	619.3	623.4	626.6	626.6	629.7	635.0	644.4	651.7	658.0
145°	632.9	633.9	638.1	642.3	646.5	646.5	647.5	652.8	661.2	669.5	675.8
147.5°	651.7	652.8	655.9	660.1	663.3	664.3	666.4	668.5	676.9	685.3	692.6
150°	668.5	669.5	671.6	675.8	677.9	680.0	682.1	683.2	689.5	696.8	705.2
152.5°	683.2	684.2	686.3	689.5	691.5	693.6	695.7	698.9	702.0	709.4	714.6
155°	697.8	698.9	699.9	703.1	705.2	706.2	707.3	711.5	714.6	718.8	724.0
157.5°	710.4	710.4	711.5	713.6	715.6	715.6	716.7	720.9	724.0	728.2	731.4
160°	720.9	720.9	721.9	724.0	724.0	725.1	726.1	729.3	731.4	736.6	740.8
162.5°	730.3	729.3	730.3	731.4	731.4	731.4	732.4	734.5	737.7	741.8	746.0
165°	737.7	737.7	737.7	738.7	738.7	737.7	737.7	739.7	741.8	745.0	748.1
167.5°	743.9	743.9	742.9	743.9	742.9	742.9	741.8	742.9	743.9	747.1	749.2
170°	749.2	748.1	748.1	748.1	747.1	746.0	746.0	746.0	746.0	748.1	750.2
172.5°	753.4	752.3	751.3	751.3	749.2	748.1	748.1	747.1	747.1	748.1	749.2
175°	754.4	753.4	752.3	752.3	750.2	749.2	748.1	748.1	747.1	748.1	749.2
177.5°	756.5	755.5	753.4	753.4	751.3	749.2	749.2	748.1	747.1	748.1	748.1
180°	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0



TEST NUMBER: P395552

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1
2.5°	420.2	420.2	419.1	418.1	418.1	417.0	416.0	414.9	413.9	412.8
5°	420.2	419.1	418.1	418.1	417.0	417.0	417.0	416.0	414.9	414.9
7.5°	420.2	420.2	419.1	418.1	418.1	418.1	418.1	418.1	417.0	417.0
10°	420.2	419.1	419.1	419.1	418.1	419.1	419.1	418.1	418.1	417.0
12.5°	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	419.1	418.1
15°	417.0	418.1	418.1	419.1	419.1	419.1	420.2	420.2	419.1	419.1
17.5°	416.0	417.0	418.1	419.1	419.1	419.1	420.2	420.2	420.2	420.2
20°	413.9	414.9	416.0	417.0	417.0	418.1	418.1	419.1	419.1	419.1
22.5°	409.7	410.7	412.8	413.9	414.9	416.0	417.0	417.0	417.0	417.0
25°	405.5	407.6	408.6	410.7	411.8	412.8	413.9	413.9	413.9	414.9
27.5°	400.3	402.4	405.5	406.5	407.6	408.6	409.7	410.7	410.7	410.7
30°	394.0	397.1	399.2	401.3	402.4	403.4	404.5	404.5	405.5	405.5
32.5°	386.6	389.8	391.9	394.0	395.0	396.1	398.2	398.2	399.2	399.2
35°	377.2	380.4	383.5	385.6	386.6	387.7	389.8	390.8	390.8	390.8
37.5°	367.8	370.9	374.1	377.2	378.3	379.3	381.4	381.4	382.4	382.4
40°	356.3	359.4	362.5	365.7	365.7	367.8	368.8	369.9	370.9	370.9
42.5°	344.7	347.9	350.0	353.1	354.2	355.2	356.3	358.3	358.3	359.4
45°	331.1	334.2	336.3	339.5	340.5	341.6	343.7	344.7	345.8	345.8
47.5°	316.4	318.5	320.6	323.8	325.9	326.9	328.0	329.0	330.1	329.0
50°	299.7	301.8	304.9	308.1	309.1	310.1	312.2	312.2	313.3	313.3
52.5°	281.9	285.0	287.1	290.2	291.3	292.3	294.4	294.4	295.5	295.5
55°	262.0	264.0	266.1	271.4	272.4	273.5	275.6	275.6	276.6	277.7
57.5°	243.1	244.1	247.3	249.4	251.5	251.5	252.5	253.6	254.6	254.6
60°	223.2	224.2	226.3	229.5	229.5	230.5	232.6	232.6	233.7	233.7
62.5°	202.2	204.3	206.4	209.6	208.5	209.6	211.7	211.7	212.7	212.7
65°	181.3	182.3	184.4	186.5	187.6	187.6	188.6	189.7	190.7	190.7
67.5°	159.3	161.4	162.4	165.6	164.5	165.6	166.6	166.6	167.6	167.6
70°	138.3	139.4	141.5	142.5	142.5	143.5	144.6	144.6	144.6	145.6
72.5°	117.4	118.4	119.4	120.5	120.5	121.5	122.6	122.6	123.6	123.6
75°	95.4	97.4	98.5	100.6	99.5	100.6	102.7	102.7	102.7	102.7
77.5°	76.5	77.5	79.6	80.7	80.7	80.7	82.8	81.7	82.8	82.8
80°	57.6	58.7	60.8	61.8	61.8	62.9	63.9	63.9	63.9	65.0
82.5°	40.9	43.0	45.1	46.1	46.1	47.2	48.2	48.2	49.2	49.2
85°	28.3	30.4	32.5	32.5	33.5	34.6	35.6	35.6	35.6	35.6
87.5°	18.9	19.9	21.0	22.0	23.1	23.1	24.1	24.1	25.1	25.1
90°	10.5	11.5	12.6	13.6	13.6	14.7	14.7	15.7	15.7	15.7
92.5°	14.7	14.7	15.7	16.8	16.8	16.8	16.8	17.8	17.8	17.8
95°	31.4	32.5	32.5	34.6	34.6	34.6	35.6	35.6	35.6	35.6
97.5°	60.8	60.8	60.8	62.9	62.9	62.9	63.9	63.9	63.9	65.0
100°	95.4	96.4	96.4	99.5	98.5	100.6	100.6	100.6	100.6	101.6
102.5°	134.1	136.2	137.3	140.4	140.4	140.4	142.5	141.5	142.5	142.5
105°	176.0	178.1	179.2	182.3	184.4	184.4	186.5	185.5	186.5	187.6
107.5°	217.9	221.1	223.2	226.3	228.4	229.5	229.5	230.5	231.6	232.6
110°	260.9	264.0	269.3	272.4	273.5	275.6	276.6	277.7	278.7	280.8



TEST NUMBER: P395552

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	306.0	309.1	313.3	317.5	316.4	319.6	321.7	322.7	323.8	322.7
115°	346.8	351.0	355.2	359.4	359.4	361.5	365.7	366.7	366.7	368.8
117.5°	385.6	390.8	395.0	399.2	400.3	402.4	405.5	408.6	408.6	410.7
120°	423.3	429.6	433.8	438.0	440.1	441.1	444.3	448.5	448.5	448.5
122.5°	458.9	464.2	469.4	473.6	475.7	477.8	479.9	485.1	485.1	487.2
125°	492.5	498.8	504.0	508.2	510.3	512.4	516.6	519.7	520.8	520.8
127.5°	523.9	530.2	535.4	540.7	541.7	543.8	548.0	552.2	553.2	554.3
130°	553.2	559.5	564.8	570.0	572.1	573.1	578.4	581.5	583.6	584.7
132.5°	579.4	585.7	591.0	596.2	598.3	600.4	603.5	608.8	609.8	609.8
135°	603.5	609.8	615.1	621.3	622.4	624.5	628.7	631.8	633.9	635.0
137.5°	625.5	631.8	638.1	643.4	645.4	646.5	650.7	654.9	657.0	658.0
140°	645.4	651.7	658.0	662.2	663.3	666.4	669.5	673.7	675.8	676.9
142.5°	664.3	669.5	674.8	680.0	681.1	683.2	686.3	690.5	692.6	693.6
145°	681.1	686.3	690.5	694.7	695.7	697.8	701.0	704.1	706.2	707.3
147.5°	696.8	701.0	705.2	708.3	709.4	711.5	713.6	715.6	717.7	718.8
150°	710.4	712.5	716.7	718.8	719.8	721.9	724.0	726.1	728.2	729.3
152.5°	720.9	724.0	726.1	729.3	730.3	731.4	733.5	735.6	737.7	737.7
155°	729.3	732.4	734.5	737.7	738.7	739.7	741.8	742.9	745.0	745.0
157.5°	735.6	738.7	740.8	742.9	743.9	745.0	746.0	748.1	750.2	750.2
160°	742.9	743.9	745.0	747.1	747.1	748.1	749.2	750.2	752.3	752.3
162.5°	749.2	750.2	748.1	749.2	748.1	749.2	750.2	751.3	752.3	752.3
165°	751.3	753.4	752.3	753.4	753.4	753.4	753.4	754.4	754.4	754.4
167.5°	751.3	753.4	752.3	752.3	753.4	753.4	754.4	755.5	755.5	755.5
170°	751.3	752.3	751.3	750.2	751.3	751.3	751.3	752.3	752.3	752.3
172.5°	750.2	751.3	749.2	748.1	748.1	748.1	747.1	747.1	746.0	746.0
175°	749.2	749.2	747.1	746.0	746.0	746.0	743.9	742.9	741.8	740.8
177.5°	748.1	748.1	745.0	743.9	743.9	742.9	742.9	740.8	740.8	739.7
180°	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0

(END OF REPORT)