

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: P395590

Luminaire Tested: **I3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395590
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-50L93050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871.9 lumens
Efficiency: N/A
Efficacy: 107.0 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

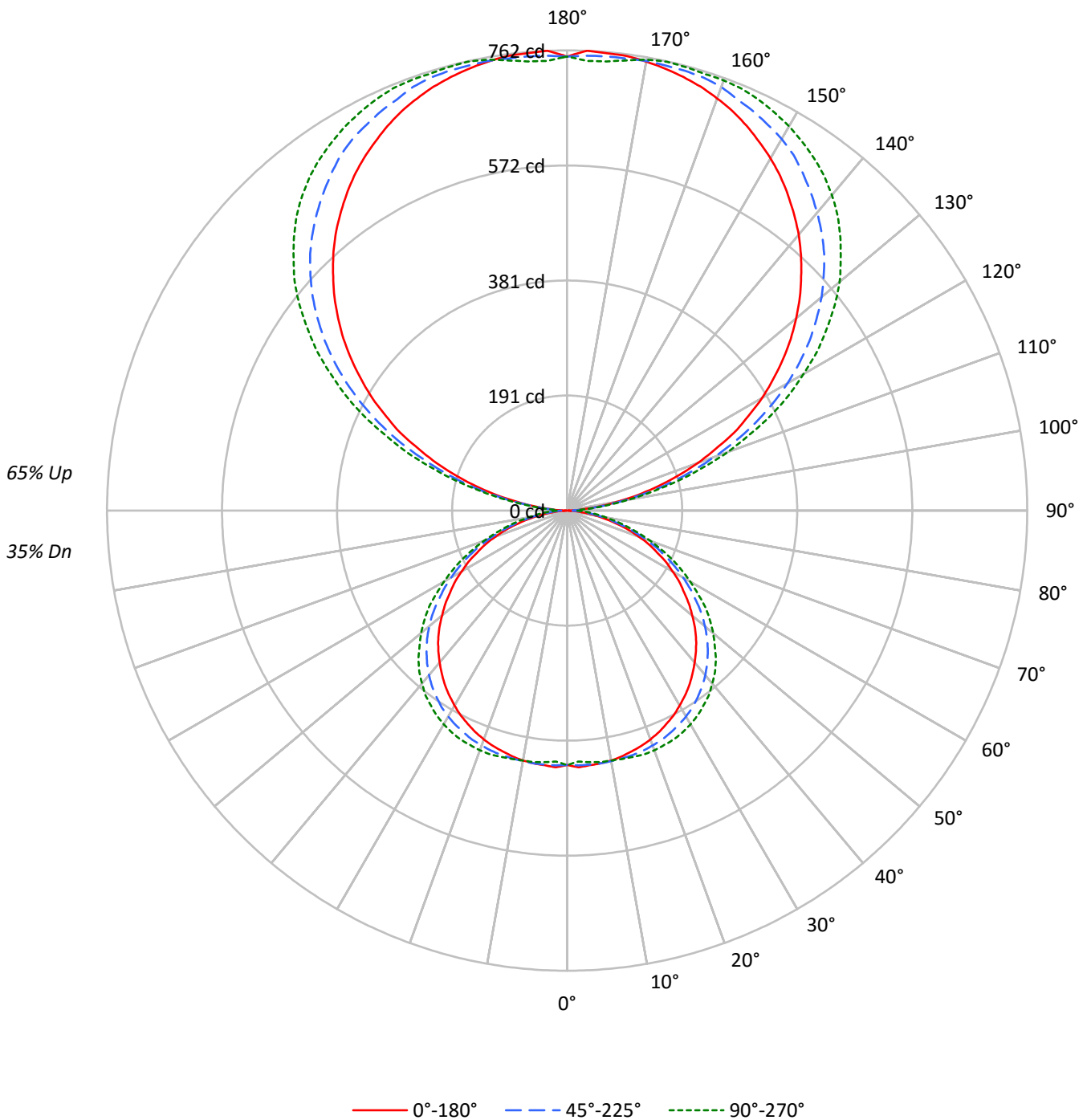
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395590

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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°	2316	2316	2316
5°	2327	2277	2241
10°	2328	2246	2215
15°	2322	2227	2206
20°	2323	2207	2203
25°	2317	2188	2195
30°	2309	2167	2175
35°	2298	2132	2142
40°	2275	2087	2096
45°	2252	2023	2031
50°	2200	1934	1932
55°	2136	1812	1817
60°	2065	1669	1641
65°	1963	1496	1458
70°	1823	1275	1231
75°	1587	1013	979
80°	1239	720	717
85°	670	412	471



TEST NUMBER: P395590

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	118.1	3.1
20°-30°	186.3	4.8
30°-40°	234.2	6.0
40°-50°	251.8	6.5
50°-60°	231.6	6.0
60°-70°	177.4	4.6
70°-80°	101.0	2.6
80°-90°	31.5	0.8
90°-100°	42.2	1.1
100°-110°	183.5	4.7
110°-120°	335.9	8.7
120°-130°	433.0	11.2
130°-140°	460.8	11.9
140°-150°	423.9	10.9
150°-160°	335.8	8.7
160°-170°	212.7	5.5
170°-180°	72.0	1.9
0°-30°	344.6	8.9
0°-40°	578.8	14.9
0°-60°	1062.1	27.4
0°-90°	1372.1	35.4
90°-120°	561.6	14.5
90°-150°	1879.3	48.5
90°-180°	2500.0	64.6
0°-180°	3871.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	423	419	422	420	418	40
15°	413	411	419	422	422	117
25°	390	391	406	415	418	180
35°	353	357	377	390	394	220
45°	302	309	329	343	348	233
55°	236	246	261	274	280	212
65°	165	170	181	189	192	163
75°	87	89	95	100	104	92
85°	16	20	26	34	36	20
90°	1	3	10	14	16	2
95°	28	28	31	35	36	36
105°	155	163	175	186	189	165
115°	305	319	344	362	372	299
125°	436	455	490	514	525	389
135°	548	566	602	627	640	423
145°	638	652	681	701	713	399
155°	703	712	730	744	751	324
165°	743	743	754	759	760	210
175°	760	755	755	752	746	72
180°	752	752	752	752	752	



TEST NUMBER: P395590

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3
2.5°	425.5	424.5	423.4	421.3	421.3	420.2	420.2	420.2	420.2	421.3	422.3
5°	423.4	423.4	422.3	420.2	420.2	419.2	419.2	420.2	419.2	420.2	422.3
7.5°	422.3	422.3	421.3	419.2	419.2	419.2	419.2	419.2	419.2	420.2	422.3
10°	420.2	420.2	418.1	417.1	417.1	417.1	417.1	418.1	418.1	419.2	421.3
12.5°	417.1	416.0	415.0	413.9	413.9	413.9	415.0	416.0	416.0	418.1	420.2
15°	412.8	412.8	411.8	410.7	410.7	410.7	411.8	412.8	413.9	416.0	419.2
17.5°	408.6	408.6	407.6	407.6	407.6	407.6	408.6	409.7	411.8	413.9	417.1
20°	403.3	403.3	402.3	402.3	402.3	403.3	403.3	405.5	407.6	410.7	413.9
22.5°	397.0	397.0	397.0	396.0	397.0	398.1	399.1	401.2	403.3	406.5	410.7
25°	389.6	389.6	389.6	389.6	390.7	390.7	392.8	394.9	397.0	401.2	405.5
27.5°	382.2	382.2	382.2	381.2	383.3	384.3	385.4	388.6	390.7	396.0	400.2
30°	372.7	372.7	372.7	373.8	374.8	375.9	378.0	381.2	383.3	388.6	393.8
32.5°	363.2	363.2	363.2	363.2	366.4	367.4	368.5	371.7	375.9	381.2	386.4
35°	352.7	352.7	352.7	353.7	355.8	356.9	359.0	362.2	366.4	371.7	376.9
37.5°	341.0	342.1	342.1	343.2	345.3	347.4	349.5	352.7	356.9	362.2	367.4
40°	328.4	329.4	329.4	330.5	332.6	334.7	336.8	341.0	345.3	350.5	355.8
42.5°	315.7	316.8	316.8	318.9	321.0	323.1	325.2	329.4	333.7	338.9	343.2
45°	302.0	303.0	303.0	305.1	308.3	309.4	312.5	316.8	321.0	325.2	329.4
47.5°	287.2	288.3	288.3	290.4	293.5	295.6	297.8	302.0	305.1	310.4	314.6
50°	270.3	271.4	272.4	274.5	278.7	280.9	283.0	286.1	290.4	293.5	297.8
52.5°	254.5	254.5	255.5	257.6	260.8	262.9	264.0	267.1	272.4	276.6	280.9
55°	236.5	237.6	238.6	240.7	243.9	246.0	247.1	250.2	253.4	256.6	260.8
57.5°	220.7	220.7	221.7	223.8	227.0	228.1	229.1	231.2	235.5	238.6	241.8
60°	201.7	202.7	203.8	205.9	208.0	210.1	210.1	213.3	216.5	219.6	221.7
62.5°	184.8	184.8	185.8	187.9	189.0	191.1	191.1	194.3	196.4	199.6	201.7
65°	164.7	165.8	166.8	167.9	170.0	170.0	171.1	173.2	175.3	177.4	180.6
67.5°	146.8	146.8	147.8	148.9	149.9	149.9	151.0	153.1	155.2	157.3	159.4
70°	126.7	127.8	127.8	127.8	128.8	129.9	130.9	132.0	134.1	135.2	137.3
72.5°	106.6	106.6	107.7	107.7	108.8	109.8	110.9	111.9	113.0	115.1	116.1
75°	86.6	86.6	87.6	87.6	88.7	88.7	88.7	90.8	91.9	94.0	95.0
77.5°	66.5	67.6	67.6	67.6	68.6	69.7	69.7	70.7	72.9	73.9	75.0
80°	48.6	48.6	48.6	48.6	49.6	50.7	51.7	51.7	53.8	56.0	57.0
82.5°	30.6	30.6	31.7	32.7	32.7	33.8	34.8	35.9	38.0	39.1	40.1
85°	15.8	15.8	16.9	17.9	19.0	20.1	20.1	21.1	23.2	25.3	26.4
87.5°	5.3	6.3	6.3	7.4	8.4	9.5	10.6	11.6	13.7	15.8	16.9
90°	1.1	1.1	1.1	2.1	3.2	3.2	4.2	5.3	6.3	7.4	9.5
92.5°	9.5	9.5	8.4	9.5	9.5	9.5	9.5	10.6	11.6	11.6	13.7
95°	28.5	27.5	27.5	27.5	27.5	27.5	27.5	28.5	29.6	29.6	30.6
97.5°	54.9	54.9	53.8	53.8	54.9	54.9	54.9	56.0	58.1	57.0	59.1
100°	85.5	85.5	84.5	85.5	86.6	87.6	89.7	89.7	91.9	91.9	95.0
102.5°	120.4	120.4	119.3	121.4	122.5	124.6	124.6	126.7	129.9	129.9	134.1
105°	155.2	156.3	156.3	158.4	160.5	162.6	162.6	165.8	170.0	170.0	175.3
107.5°	193.2	194.3	194.3	196.4	198.5	200.6	201.7	205.9	210.1	211.2	217.5
110°	230.2	231.2	232.3	234.4	236.5	239.7	241.8	246.0	251.3	253.4	258.7



TEST NUMBER: P395590

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	265.0	269.2	270.3	273.5	276.6	279.8	281.9	287.2	293.5	296.7	303.0
115°	305.1	307.3	308.3	311.5	315.7	318.9	321.0	326.3	332.6	336.8	344.2
117.5°	337.9	343.2	344.2	347.4	351.6	354.8	356.9	363.2	370.6	375.9	383.3
120°	372.7	376.9	381.2	383.3	386.4	390.7	392.8	399.1	407.6	412.8	421.3
122.5°	404.4	408.6	412.8	416.0	420.2	422.3	425.5	432.9	441.4	447.7	456.1
125°	436.1	441.4	444.5	447.7	453.0	455.1	458.2	465.6	474.1	481.5	489.9
127.5°	466.7	469.9	475.1	477.3	482.5	484.6	487.8	496.3	504.7	512.1	520.5
130°	495.2	499.4	503.6	504.7	511.0	514.2	517.4	524.8	534.3	541.7	550.1
132.5°	522.7	524.8	530.0	533.2	538.5	541.7	544.8	551.2	560.7	568.1	576.5
135°	548.0	550.1	556.4	559.6	562.8	565.9	570.2	576.5	586.0	593.4	601.8
137.5°	573.3	575.4	581.8	585.0	587.1	590.2	593.4	599.7	609.2	616.6	624.0
140°	596.6	598.7	602.9	607.1	609.2	611.3	614.5	620.9	629.3	636.7	644.1
142.5°	617.7	619.8	624.0	628.2	631.4	631.4	634.6	639.9	649.4	656.8	663.1
145°	637.7	638.8	643.0	647.2	651.5	651.5	652.5	657.8	666.3	674.7	681.0
147.5°	656.8	657.8	661.0	665.2	668.4	669.4	671.5	673.6	682.1	690.5	697.9
150°	673.6	674.7	676.8	681.0	683.1	685.3	687.4	688.4	694.8	702.2	710.6
152.5°	688.4	689.5	691.6	694.8	696.9	699.0	701.1	704.3	707.4	714.8	720.1
155°	703.2	704.3	705.3	708.5	710.6	711.7	712.7	716.9	720.1	724.3	729.6
157.5°	715.9	715.9	716.9	719.0	721.2	721.2	722.2	726.4	729.6	733.8	737.0
160°	726.4	726.4	727.5	729.6	729.6	730.7	731.7	734.9	737.0	742.3	746.5
162.5°	735.9	734.9	735.9	737.0	737.0	737.0	738.1	740.2	743.3	747.6	751.8
165°	743.3	743.3	743.3	744.4	744.4	743.3	743.3	745.4	747.6	750.7	753.9
167.5°	749.7	749.7	748.6	749.7	748.6	748.6	747.6	748.6	749.7	752.8	754.9
170°	754.9	753.9	753.9	753.9	752.8	751.8	751.8	751.8	751.8	753.9	756.0
172.5°	759.2	758.1	757.1	757.1	754.9	753.9	753.9	752.8	752.8	753.9	754.9
175°	760.2	759.2	758.1	758.1	756.0	754.9	753.9	753.9	752.8	753.9	754.9
177.5°	762.3	761.3	759.2	759.2	757.1	754.9	754.9	753.9	752.8	753.9	753.9
180°	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8



TEST NUMBER: P395590

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3
2.5°	423.4	423.4	422.3	421.3	421.3	420.2	419.2	418.1	417.1	416.0
5°	423.4	422.3	421.3	421.3	420.2	420.2	420.2	419.2	418.1	418.1
7.5°	423.4	423.4	422.3	421.3	421.3	421.3	421.3	421.3	420.2	420.2
10°	423.4	422.3	422.3	422.3	421.3	422.3	422.3	421.3	421.3	420.2
12.5°	422.3	422.3	422.3	422.3	422.3	422.3	422.3	422.3	422.3	421.3
15°	420.2	421.3	421.3	422.3	422.3	422.3	423.4	423.4	422.3	422.3
17.5°	419.2	420.2	421.3	422.3	422.3	422.3	423.4	423.4	423.4	423.4
20°	417.1	418.1	419.2	420.2	420.2	421.3	421.3	422.3	422.3	422.3
22.5°	412.8	413.9	416.0	417.1	418.1	419.2	420.2	420.2	420.2	420.2
25°	408.6	410.7	411.8	413.9	415.0	416.0	417.1	417.1	417.1	418.1
27.5°	403.3	405.5	408.6	409.7	410.7	411.8	412.8	413.9	413.9	413.9
30°	397.0	400.2	402.3	404.4	405.5	406.5	407.6	407.6	408.6	408.6
32.5°	389.6	392.8	394.9	397.0	398.1	399.1	401.2	401.2	402.3	402.3
35°	380.1	383.3	386.4	388.6	389.6	390.7	392.8	393.8	393.8	393.8
37.5°	370.6	373.8	376.9	380.1	381.2	382.2	384.3	384.3	385.4	385.4
40°	359.0	362.2	365.3	368.5	368.5	370.6	371.7	372.7	373.8	373.8
42.5°	347.4	350.5	352.7	355.8	356.9	357.9	359.0	361.1	361.1	362.2
45°	333.7	336.8	338.9	342.1	343.2	344.2	346.3	347.4	348.4	348.4
47.5°	318.9	321.0	323.1	326.3	328.4	329.4	330.5	331.5	332.6	331.5
50°	302.0	304.1	307.3	310.4	311.5	312.5	314.6	314.6	315.7	315.7
52.5°	284.0	287.2	289.3	292.5	293.5	294.6	296.7	296.7	297.8	297.8
55°	264.0	266.1	268.2	273.5	274.5	275.6	277.7	277.7	278.7	279.8
57.5°	245.0	246.0	249.2	251.3	253.4	253.4	254.5	255.5	256.6	256.6
60°	224.9	226.0	228.1	231.2	231.2	232.3	234.4	234.4	235.5	235.5
62.5°	203.8	205.9	208.0	211.2	210.1	211.2	213.3	213.3	214.3	214.3
65°	182.7	183.7	185.8	187.9	189.0	189.0	190.1	191.1	192.2	192.2
67.5°	160.5	162.6	163.7	166.8	165.8	166.8	167.9	167.9	168.9	168.9
70°	139.4	140.4	142.5	143.6	143.6	144.7	145.7	145.7	145.7	146.8
72.5°	118.3	119.3	120.4	121.4	121.4	122.5	123.5	123.5	124.6	124.6
75°	96.1	98.2	99.3	101.4	100.3	101.4	103.5	103.5	103.5	103.5
77.5°	77.1	78.1	80.2	81.3	81.3	81.3	83.4	82.4	83.4	83.4
80°	58.1	59.1	61.2	62.3	62.3	63.4	64.4	64.4	64.4	65.5
82.5°	41.2	43.3	45.4	46.5	46.5	47.5	48.6	48.6	49.6	49.6
85°	28.5	30.6	32.7	32.7	33.8	34.8	35.9	35.9	35.9	35.9
87.5°	19.0	20.1	21.1	22.2	23.2	23.2	24.3	24.3	25.3	25.3
90°	10.6	11.6	12.7	13.7	13.7	14.8	14.8	15.8	15.8	15.8
92.5°	14.8	14.8	15.8	16.9	16.9	16.9	16.9	17.9	17.9	17.9
95°	31.7	32.7	32.7	34.8	34.8	34.8	35.9	35.9	35.9	35.9
97.5°	61.2	61.2	61.2	63.4	63.4	63.4	64.4	64.4	64.4	65.5
100°	96.1	97.1	97.1	100.3	99.3	101.4	101.4	101.4	101.4	102.4
102.5°	135.2	137.3	138.3	141.5	141.5	141.5	143.6	142.5	143.6	143.6
105°	177.4	179.5	180.6	183.7	185.8	185.8	187.9	186.9	187.9	189.0
107.5°	219.6	222.8	224.9	228.1	230.2	231.2	231.2	232.3	233.3	234.4
110°	262.9	266.1	271.4	274.5	275.6	277.7	278.7	279.8	280.9	283.0



TEST NUMBER: P395590

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	308.3	311.5	315.7	319.9	318.9	322.0	324.2	325.2	326.3	325.2
115°	349.5	353.7	357.9	362.2	362.2	364.3	368.5	369.6	369.6	371.7
117.5°	388.6	393.8	398.1	402.3	403.3	405.5	408.6	411.8	411.8	413.9
120°	426.6	432.9	437.1	441.4	443.5	444.5	447.7	451.9	451.9	451.9
122.5°	462.5	467.8	473.0	477.3	479.4	481.5	483.6	488.9	488.9	491.0
125°	496.3	502.6	507.9	512.1	514.2	516.3	520.5	523.7	524.8	524.8
127.5°	527.9	534.3	539.5	544.8	545.9	548.0	552.2	556.4	557.5	558.6
130°	557.5	563.8	569.1	574.4	576.5	577.6	582.8	586.0	588.1	589.2
132.5°	583.9	590.2	595.5	600.8	602.9	605.0	608.2	613.5	614.5	614.5
135°	608.2	614.5	619.8	626.1	627.2	629.3	633.5	636.7	638.8	639.9
137.5°	630.4	636.7	643.0	648.3	650.4	651.5	655.7	659.9	662.0	663.1
140°	650.4	656.8	663.1	667.3	668.4	671.5	674.7	678.9	681.0	682.1
142.5°	669.4	674.7	680.0	685.3	686.3	688.4	691.6	695.8	697.9	699.0
145°	686.3	691.6	695.8	700.0	701.1	703.2	706.4	709.5	711.7	712.7
147.5°	702.2	706.4	710.6	713.8	714.8	716.9	719.0	721.2	723.3	724.3
150°	715.9	718.0	722.2	724.3	725.4	727.5	729.6	731.7	733.8	734.9
152.5°	726.4	729.6	731.7	734.9	735.9	737.0	739.1	741.2	743.3	743.3
155°	734.9	738.1	740.2	743.3	744.4	745.4	747.6	748.6	750.7	750.7
157.5°	741.2	744.4	746.5	748.6	749.7	750.7	751.8	753.9	756.0	756.0
160°	748.6	749.7	750.7	752.8	752.8	753.9	754.9	756.0	758.1	758.1
162.5°	754.9	756.0	753.9	754.9	753.9	754.9	756.0	757.1	758.1	758.1
165°	757.1	759.2	758.1	759.2	759.2	759.2	759.2	760.2	760.2	760.2
167.5°	757.1	759.2	758.1	758.1	759.2	759.2	760.2	761.3	761.3	761.3
170°	757.1	758.1	757.1	756.0	757.1	757.1	757.1	758.1	758.1	758.1
172.5°	756.0	757.1	754.9	753.9	753.9	753.9	752.8	752.8	751.8	751.8
175°	754.9	754.9	752.8	751.8	751.8	751.8	749.7	748.6	747.6	746.5
177.5°	753.9	753.9	750.7	749.7	749.7	748.6	748.6	746.5	746.5	745.4
180°	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8

(END OF REPORT)