

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: P395592

Luminaire Tested: **I3-FL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395592
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 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
5000 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: 4254.6 lumens
Efficiency: N/A
Efficacy: 115.0 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

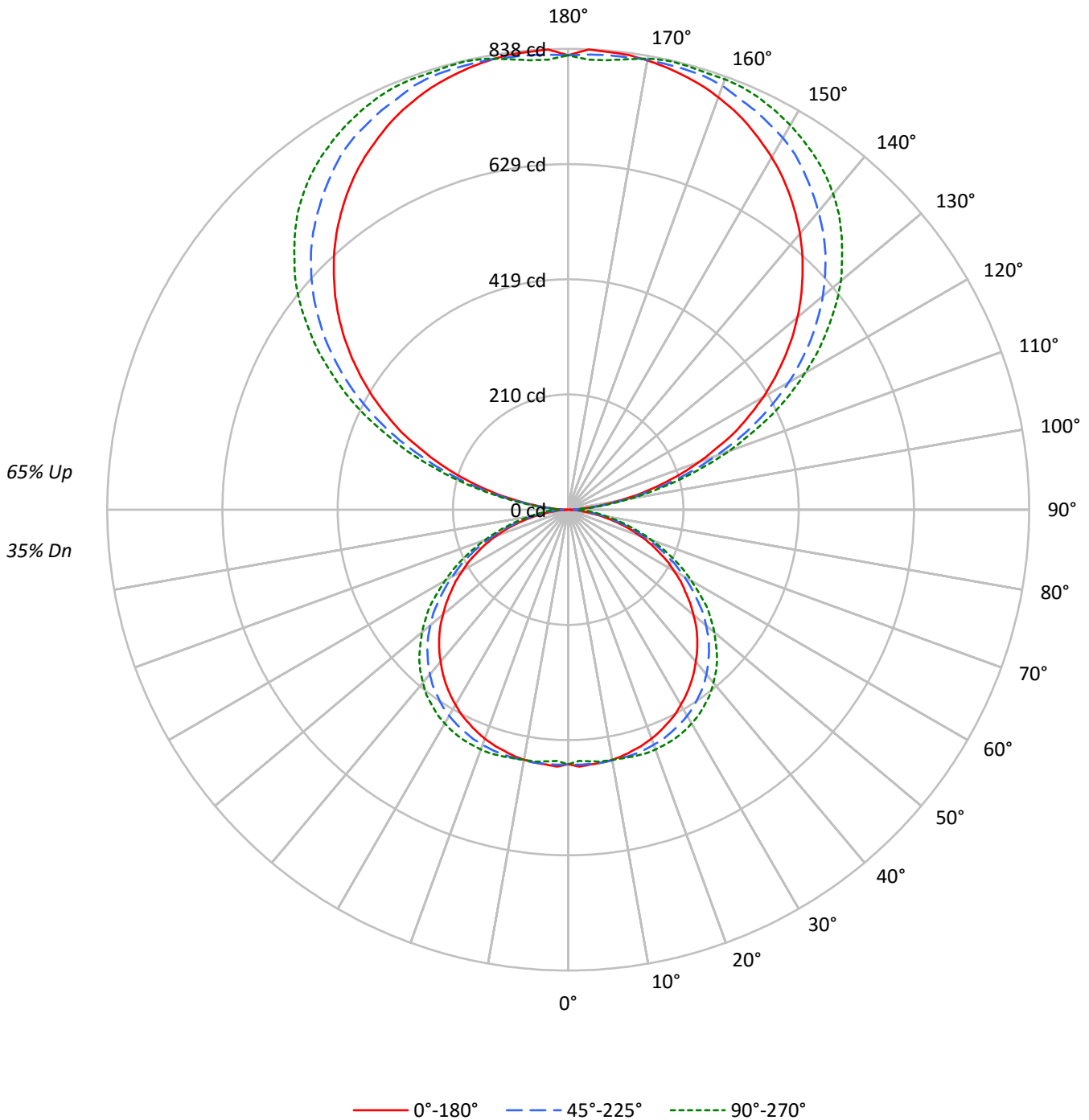
Input Watts (W): 37
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	2544	2544	2544
5°	2557	2502	2463
10°	2558	2468	2434
15°	2552	2447	2424
20°	2553	2426	2421
25°	2546	2404	2411
30°	2537	2381	2390
35°	2525	2343	2355
40°	2500	2294	2303
45°	2474	2223	2232
50°	2417	2125	2123
55°	2348	1991	1996
60°	2269	1834	1803
65°	2157	1644	1602
70°	2003	1401	1353
75°	1743	1113	1076
80°	1362	792	787
85°	738	453	517



TEST NUMBER: P395592

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.0
10°-20°	129.8	3.1
20°-30°	204.7	4.8
30°-40°	257.3	6.0
40°-50°	276.6	6.5
50°-60°	254.5	6.0
60°-70°	195.0	4.6
70°-80°	111.0	2.6
80°-90°	34.7	0.8
90°-100°	46.4	1.1
100°-110°	201.6	4.7
110°-120°	369.1	8.7
120°-130°	475.8	11.2
130°-140°	506.3	11.9
140°-150°	465.8	10.9
150°-160°	369.0	8.7
160°-170°	233.7	5.5
170°-180°	79.1	1.9
0°-30°	378.7	8.9
0°-40°	636.0	14.9
0°-60°	1167.1	27.4
0°-90°	1507.7	35.4
90°-120°	617.1	14.5
90°-150°	2065.0	48.5
90°-180°	2747.0	64.6
0°-180°	4254.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	465	461	464	462	459	44
15°	454	451	461	464	464	128
25°	428	429	446	456	459	198
35°	388	392	414	428	433	242
45°	332	340	362	377	383	256
55°	260	270	287	302	308	233
65°	181	187	198	208	211	180
75°	95	98	104	110	114	101
85°	17	22	29	37	39	22
90°	1	4	10	15	17	3
95°	31	30	34	38	39	39
105°	171	179	193	204	208	182
115°	335	350	378	398	408	329
125°	479	500	538	565	577	428
135°	602	622	661	689	703	465
145°	701	716	748	770	783	439
155°	773	782	802	818	825	356
165°	817	817	828	834	835	231
175°	835	830	830	826	820	80
180°	826	826	826	826	826	



TEST NUMBER: P395592

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9
2.5°	467.6	466.4	465.2	462.9	462.9	461.8	461.8	461.8	461.8	462.9	464.1
5°	465.2	465.2	464.1	461.8	461.8	460.6	460.6	461.8	460.6	461.8	464.1
7.5°	464.1	464.1	462.9	460.6	460.6	460.6	460.6	460.6	460.6	461.8	464.1
10°	461.8	461.8	459.4	458.3	458.3	458.3	458.3	459.4	459.4	460.6	462.9
12.5°	458.3	457.1	456.0	454.8	454.8	454.8	456.0	457.1	457.1	459.4	461.8
15°	453.6	453.6	452.5	451.3	451.3	451.3	452.5	453.6	454.8	457.1	460.6
17.5°	449.0	449.0	447.8	447.8	447.8	447.8	449.0	450.2	452.5	454.8	458.3
20°	443.2	443.2	442.0	442.0	442.0	443.2	443.2	445.5	447.8	451.3	454.8
22.5°	436.2	436.2	436.2	435.1	436.2	437.4	438.6	440.9	443.2	446.7	451.3
25°	428.1	428.1	428.1	428.1	429.3	429.3	431.6	433.9	436.2	440.9	445.5
27.5°	420.0	420.0	420.0	418.8	421.2	422.3	423.5	427.0	429.3	435.1	439.7
30°	409.6	409.6	409.6	410.7	411.9	413.0	415.4	418.8	421.2	427.0	432.8
32.5°	399.1	399.1	399.1	399.1	402.6	403.8	404.9	408.4	413.0	418.8	424.6
35°	387.5	387.5	387.5	388.7	391.0	392.2	394.5	398.0	402.6	408.4	414.2
37.5°	374.7	375.9	375.9	377.1	379.4	381.7	384.0	387.5	392.2	398.0	403.8
40°	360.8	362.0	362.0	363.1	365.5	367.8	370.1	374.7	379.4	385.2	391.0
42.5°	346.9	348.1	348.1	350.4	352.7	355.0	357.3	362.0	366.6	372.4	377.1
45°	331.8	333.0	333.0	335.3	338.8	339.9	343.4	348.1	352.7	357.3	362.0
47.5°	315.6	316.7	316.7	319.1	322.5	324.9	327.2	331.8	335.3	341.1	345.7
50°	297.0	298.2	299.3	301.7	306.3	308.6	310.9	314.4	319.1	322.5	327.2
52.5°	279.6	279.6	280.8	283.1	286.6	288.9	290.1	293.5	299.3	304.0	308.6
55°	259.9	261.0	262.2	264.5	268.0	270.3	271.5	275.0	278.5	281.9	286.6
57.5°	242.5	242.5	243.6	246.0	249.4	250.6	251.8	254.1	258.7	262.2	265.7
60°	221.6	222.8	223.9	226.2	228.6	230.9	230.9	234.4	237.8	241.3	243.6
62.5°	203.0	203.0	204.2	206.5	207.7	210.0	210.0	213.5	215.8	219.3	221.6
65°	181.0	182.2	183.3	184.5	186.8	186.8	188.0	190.3	192.6	194.9	198.4
67.5°	161.3	161.3	162.4	163.6	164.8	164.8	165.9	168.2	170.6	172.9	175.2
70°	139.2	140.4	140.4	140.4	141.5	142.7	143.9	145.0	147.3	148.5	150.8
72.5°	117.2	117.2	118.3	118.3	119.5	120.7	121.8	123.0	124.1	126.5	127.6
75°	95.1	95.1	96.3	96.3	97.5	97.5	97.5	99.8	100.9	103.3	104.4
77.5°	73.1	74.3	74.3	74.3	75.4	76.6	76.6	77.7	80.1	81.2	82.4
80°	53.4	53.4	53.4	53.4	54.5	55.7	56.9	56.9	59.2	61.5	62.7
82.5°	33.6	33.6	34.8	36.0	36.0	37.1	38.3	39.4	41.8	42.9	44.1
85°	17.4	17.4	18.6	19.7	20.9	22.0	22.0	23.2	25.5	27.8	29.0
87.5°	5.8	7.0	7.0	8.1	9.3	10.4	11.6	12.8	15.1	17.4	18.6
90°	1.2	1.2	1.2	2.3	3.5	3.5	4.6	5.8	7.0	8.1	10.4
92.5°	10.4	10.4	9.3	10.4	10.4	10.4	10.4	11.6	12.8	12.8	15.1
95°	31.3	30.2	30.2	30.2	30.2	30.2	30.2	31.3	32.5	32.5	33.6
97.5°	60.3	60.3	59.2	59.2	60.3	60.3	60.3	61.5	63.8	62.7	65.0
100°	94.0	94.0	92.8	94.0	95.1	96.3	98.6	98.6	100.9	100.9	104.4
102.5°	132.3	132.3	131.1	133.4	134.6	136.9	136.9	139.2	142.7	142.7	147.3
105°	170.6	171.7	171.7	174.0	176.4	178.7	178.7	182.2	186.8	186.8	192.6
107.5°	212.3	213.5	213.5	215.8	218.1	220.4	221.6	226.2	230.9	232.0	239.0
110°	252.9	254.1	255.2	257.6	259.9	263.4	265.7	270.3	276.1	278.5	284.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	291.2	295.9	297.0	300.5	304.0	307.5	309.8	315.6	322.5	326.0	333.0
115°	335.3	337.6	338.8	342.3	346.9	350.4	352.7	358.5	365.5	370.1	378.2
117.5°	371.3	377.1	378.2	381.7	386.4	389.8	392.2	399.1	407.2	413.0	421.2
120°	409.6	414.2	418.8	421.2	424.6	429.3	431.6	438.6	447.8	453.6	462.9
122.5°	444.4	449.0	453.6	457.1	461.8	464.1	467.6	475.7	485.0	491.9	501.2
125°	479.2	485.0	488.5	491.9	497.7	500.1	503.5	511.7	520.9	529.1	538.3
127.5°	512.8	516.3	522.1	524.4	530.2	532.5	536.0	545.3	554.6	562.7	572.0
130°	544.1	548.8	553.4	554.6	561.5	565.0	568.5	576.6	587.1	595.2	604.5
132.5°	574.3	576.6	582.4	585.9	591.7	595.2	598.7	605.6	616.1	624.2	633.5
135°	602.2	604.5	611.4	614.9	618.4	621.9	626.5	633.5	643.9	652.0	661.3
137.5°	630.0	632.3	639.3	642.8	645.1	648.6	652.0	659.0	669.4	677.6	685.7
140°	655.5	657.8	662.5	667.1	669.4	671.8	675.2	682.2	691.5	699.6	707.7
142.5°	678.7	681.0	685.7	690.3	693.8	693.8	697.3	703.1	713.5	721.7	728.6
145°	700.8	701.9	706.6	711.2	715.9	715.9	717.0	722.8	732.1	741.4	748.3
147.5°	721.7	722.8	726.3	730.9	734.4	735.6	737.9	740.2	749.5	758.8	766.9
150°	740.2	741.4	743.7	748.3	750.7	753.0	755.3	756.5	763.4	771.5	780.8
152.5°	756.5	757.6	759.9	763.4	765.7	768.1	770.4	773.9	777.3	785.5	791.3
155°	772.7	773.9	775.0	778.5	780.8	782.0	783.1	787.8	791.3	795.9	801.7
157.5°	786.6	786.6	787.8	790.1	792.4	792.4	793.6	798.2	801.7	806.3	809.8
160°	798.2	798.2	799.4	801.7	801.7	802.9	804.0	807.5	809.8	815.6	820.3
162.5°	808.7	807.5	808.7	809.8	809.8	809.8	811.0	813.3	816.8	821.4	826.1
165°	816.8	816.8	816.8	818.0	818.0	816.8	816.8	819.1	821.4	824.9	828.4
167.5°	823.8	823.8	822.6	823.8	822.6	822.6	821.4	822.6	823.8	827.2	829.6
170°	829.6	828.4	828.4	828.4	827.2	826.1	826.1	826.1	826.1	828.4	830.7
172.5°	834.2	833.0	831.9	831.9	829.6	828.4	828.4	827.2	827.2	828.4	829.6
175°	835.4	834.2	833.0	833.0	830.7	829.6	828.4	828.4	827.2	828.4	829.6
177.5°	837.7	836.5	834.2	834.2	831.9	829.6	829.6	828.4	827.2	828.4	828.4
180°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9	462.9
2.5°	465.2	465.2	464.1	462.9	462.9	461.8	460.6	459.4	458.3	457.1
5°	465.2	464.1	462.9	462.9	461.8	461.8	461.8	460.6	459.4	459.4
7.5°	465.2	465.2	464.1	462.9	462.9	462.9	462.9	462.9	461.8	461.8
10°	465.2	464.1	464.1	464.1	462.9	464.1	464.1	462.9	462.9	461.8
12.5°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	462.9
15°	461.8	462.9	462.9	464.1	464.1	464.1	465.2	465.2	464.1	464.1
17.5°	460.6	461.8	462.9	464.1	464.1	464.1	465.2	465.2	465.2	465.2
20°	458.3	459.4	460.6	461.8	461.8	462.9	462.9	464.1	464.1	464.1
22.5°	453.6	454.8	457.1	458.3	459.4	460.6	461.8	461.8	461.8	461.8
25°	449.0	451.3	452.5	454.8	456.0	457.1	458.3	458.3	458.3	459.4
27.5°	443.2	445.5	449.0	450.2	451.3	452.5	453.6	454.8	454.8	454.8
30°	436.2	439.7	442.0	444.4	445.5	446.7	447.8	447.8	449.0	449.0
32.5°	428.1	431.6	433.9	436.2	437.4	438.6	440.9	440.9	442.0	442.0
35°	417.7	421.2	424.6	427.0	428.1	429.3	431.6	432.8	432.8	432.8
37.5°	407.2	410.7	414.2	417.7	418.8	420.0	422.3	422.3	423.5	423.5
40°	394.5	398.0	401.4	404.9	404.9	407.2	408.4	409.6	410.7	410.7
42.5°	381.7	385.2	387.5	391.0	392.2	393.3	394.5	396.8	396.8	398.0
45°	366.6	370.1	372.4	375.9	377.1	378.2	380.6	381.7	382.9	382.9
47.5°	350.4	352.7	355.0	358.5	360.8	362.0	363.1	364.3	365.5	364.3
50°	331.8	334.1	337.6	341.1	342.3	343.4	345.7	345.7	346.9	346.9
52.5°	312.1	315.6	317.9	321.4	322.5	323.7	326.0	326.0	327.2	327.2
55°	290.1	292.4	294.7	300.5	301.7	302.8	305.1	305.1	306.3	307.5
57.5°	269.2	270.3	273.8	276.1	278.5	278.5	279.6	280.8	281.9	281.9
60°	247.1	248.3	250.6	254.1	254.1	255.2	257.6	257.6	258.7	258.7
62.5°	223.9	226.2	228.6	232.0	230.9	232.0	234.4	234.4	235.5	235.5
65°	200.7	201.9	204.2	206.5	207.7	207.7	208.8	210.0	211.2	211.2
67.5°	176.4	178.7	179.8	183.3	182.2	183.3	184.5	184.5	185.6	185.6
70°	153.1	154.3	156.6	157.8	157.8	158.9	160.1	160.1	160.1	161.3
72.5°	129.9	131.1	132.3	133.4	133.4	134.6	135.7	135.7	136.9	136.9
75°	105.6	107.9	109.1	111.4	110.2	111.4	113.7	113.7	113.7	113.7
77.5°	84.7	85.9	88.2	89.3	89.3	89.3	91.7	90.5	91.7	91.7
80°	63.8	65.0	67.3	68.5	68.5	69.6	70.8	70.8	70.8	71.9
82.5°	45.2	47.6	49.9	51.0	51.0	52.2	53.4	53.4	54.5	54.5
85°	31.3	33.6	36.0	36.0	37.1	38.3	39.4	39.4	39.4	39.4
87.5°	20.9	22.0	23.2	24.4	25.5	25.5	26.7	26.7	27.8	27.8
90°	11.6	12.8	13.9	15.1	15.1	16.2	16.2	17.4	17.4	17.4
92.5°	16.2	16.2	17.4	18.6	18.6	18.6	18.6	19.7	19.7	19.7
95°	34.8	36.0	36.0	38.3	38.3	38.3	39.4	39.4	39.4	39.4
97.5°	67.3	67.3	67.3	69.6	69.6	69.6	70.8	70.8	70.8	71.9
100°	105.6	106.7	106.7	110.2	109.1	111.4	111.4	111.4	111.4	112.5
102.5°	148.5	150.8	152.0	155.5	155.5	155.5	157.8	156.6	157.8	157.8
105°	194.9	197.2	198.4	201.9	204.2	204.2	206.5	205.4	206.5	207.7
107.5°	241.3	244.8	247.1	250.6	252.9	254.1	254.1	255.2	256.4	257.6
110°	288.9	292.4	298.2	301.7	302.8	305.1	306.3	307.5	308.6	310.9



TEST NUMBER: P395592

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	338.8	342.3	346.9	351.5	350.4	353.9	356.2	357.3	358.5	357.3
115°	384.0	388.7	393.3	398.0	398.0	400.3	404.9	406.1	406.1	408.4
117.5°	427.0	432.8	437.4	442.0	443.2	445.5	449.0	452.5	452.5	454.8
120°	468.7	475.7	480.3	485.0	487.3	488.5	491.9	496.6	496.6	496.6
122.5°	508.2	514.0	519.8	524.4	526.7	529.1	531.4	537.2	537.2	539.5
125°	545.3	552.3	558.1	562.7	565.0	567.3	572.0	575.5	576.6	576.6
127.5°	580.1	587.1	592.9	598.7	599.8	602.2	606.8	611.4	612.6	613.8
130°	612.6	619.6	625.4	631.2	633.5	634.6	640.4	643.9	646.2	647.4
132.5°	641.6	648.6	654.4	660.2	662.5	664.8	668.3	674.1	675.2	675.2
135°	668.3	675.2	681.0	688.0	689.2	691.5	696.1	699.6	701.9	703.1
137.5°	692.6	699.6	706.6	712.4	714.7	715.9	720.5	725.1	727.5	728.6
140°	714.7	721.7	728.6	733.3	734.4	737.9	741.4	746.0	748.3	749.5
142.5°	735.6	741.4	747.2	753.0	754.1	756.5	759.9	764.6	766.9	768.1
145°	754.1	759.9	764.6	769.2	770.4	772.7	776.2	779.7	782.0	783.1
147.5°	771.5	776.2	780.8	784.3	785.5	787.8	790.1	792.4	794.7	795.9
150°	786.6	788.9	793.6	795.9	797.1	799.4	801.7	804.0	806.3	807.5
152.5°	798.2	801.7	804.0	807.5	808.7	809.8	812.2	814.5	816.8	816.8
155°	807.5	811.0	813.3	816.8	818.0	819.1	821.4	822.6	824.9	824.9
157.5°	814.5	818.0	820.3	822.6	823.8	824.9	826.1	828.4	830.7	830.7
160°	822.6	823.8	824.9	827.2	827.2	828.4	829.6	830.7	833.0	833.0
162.5°	829.6	830.7	828.4	829.6	828.4	829.6	830.7	831.9	833.0	833.0
165°	831.9	834.2	833.0	834.2	834.2	834.2	834.2	835.4	835.4	835.4
167.5°	831.9	834.2	833.0	833.0	834.2	834.2	835.4	836.5	836.5	836.5
170°	831.9	833.0	831.9	830.7	831.9	831.9	831.9	833.0	833.0	833.0
172.5°	830.7	831.9	829.6	828.4	828.4	828.4	827.2	827.2	826.1	826.1
175°	829.6	829.6	827.2	826.1	826.1	826.1	823.8	822.6	821.4	820.3
177.5°	828.4	828.4	824.9	823.8	823.8	822.6	822.6	820.3	820.3	819.1
180°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1

(END OF REPORT)