

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: P395589

Luminaire Tested: **I3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395589  
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 (3000K)  
Description: CORELITE I3, FROSTED TOP COVER  
5000 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: 3544.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

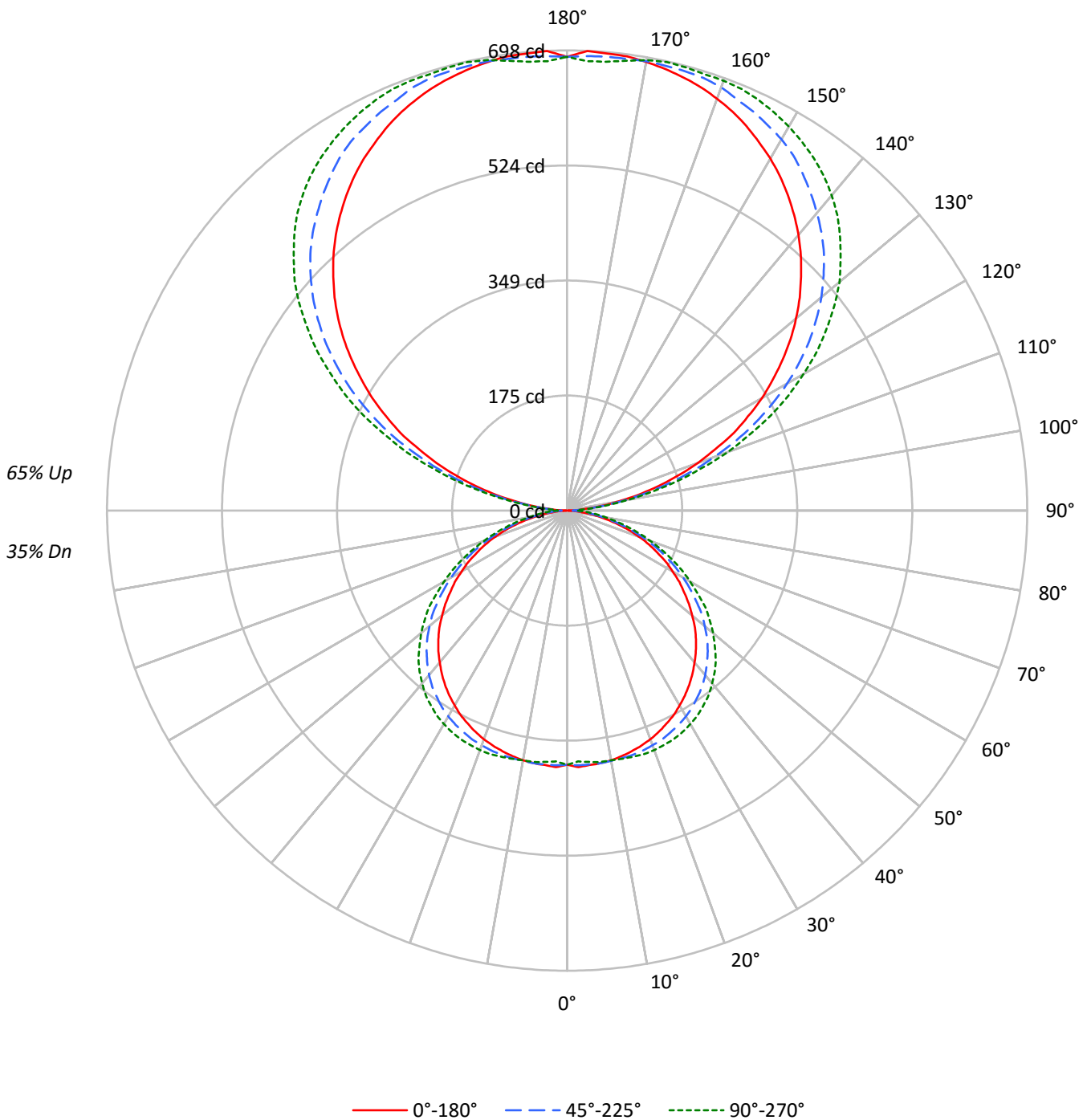
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2119	2119	2119
5°	2130	2085	2052
10°	2131	2056	2027
15°	2126	2038	2020
20°	2127	2020	2017
25°	2121	2002	2009
30°	2114	1984	1991
35°	2103	1952	1961
40°	2082	1911	1918
45°	2061	1851	1859
50°	2013	1770	1769
55°	1956	1658	1663
60°	1890	1528	1502
65°	1797	1369	1334
70°	1669	1167	1127
75°	1451	928	896
80°	1135	659	656
85°	615	378	431



TEST NUMBER: P395589

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.8	1.0
10°-20°	108.1	3.1
20°-30°	170.5	4.8
30°-40°	214.3	6.0
40°-50°	230.4	6.5
50°-60°	212.0	6.0
60°-70°	162.4	4.6
70°-80°	92.5	2.6
80°-90°	28.9	0.8
90°-100°	38.6	1.1
100°-110°	168.0	4.7
110°-120°	307.5	8.7
120°-130°	396.3	11.2
130°-140°	421.7	11.9
140°-150°	388.0	10.9
150°-160°	307.4	8.7
160°-170°	194.6	5.5
170°-180°	65.9	1.9
0°-30°	315.4	8.9
0°-40°	529.7	14.9
0°-60°	972.1	27.4
0°-90°	1255.9	35.4
90°-120°	514.1	14.5
90°-150°	1720.1	48.5
90°-180°	2288.0	64.6
0°-180°	3544.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	388	384	387	385	383	37
15°	378	376	384	387	387	107
25°	357	358	371	380	383	165
35°	323	327	345	357	360	202
45°	276	283	302	314	319	213
55°	216	225	239	251	256	194
65°	151	156	165	173	176	150
75°	79	81	87	92	95	84
85°	14	18	24	31	33	18
90°	1	3	9	13	14	2
95°	26	25	28	32	33	33
105°	142	149	160	170	173	151
115°	279	292	315	332	340	274
125°	399	416	448	471	480	356
135°	502	518	551	574	586	387
145°	584	596	623	642	652	365
155°	644	651	668	681	687	297
165°	680	680	690	695	696	192
175°	696	691	691	688	683	66
180°	688	688	688	688	688	



TEST NUMBER: P395589

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6
2.5°	389.5	388.5	387.5	385.6	385.6	384.6	384.6	384.6	384.6	385.6	386.6
5°	387.5	387.5	386.6	384.6	384.6	383.7	383.7	384.6	383.7	384.6	386.6
7.5°	386.6	386.6	385.6	383.7	383.7	383.7	383.7	383.7	383.7	384.6	386.6
10°	384.6	384.6	382.7	381.7	381.7	381.7	381.7	382.7	382.7	383.7	385.6
12.5°	381.7	380.8	379.8	378.8	378.8	378.8	379.8	380.8	380.8	382.7	384.6
15°	377.9	377.9	376.9	375.9	375.9	375.9	376.9	377.9	378.8	380.8	383.7
17.5°	374.0	374.0	373.0	373.0	373.0	373.0	374.0	375.0	376.9	378.8	381.7
20°	369.2	369.2	368.2	368.2	368.2	369.2	369.2	371.1	373.0	375.9	378.8
22.5°	363.4	363.4	363.4	362.4	363.4	364.3	365.3	367.2	369.2	372.1	375.9
25°	356.6	356.6	356.6	356.6	357.6	357.6	359.5	361.4	363.4	367.2	371.1
27.5°	349.8	349.8	349.8	348.9	350.8	351.8	352.7	355.6	357.6	362.4	366.3
30°	341.2	341.2	341.2	342.1	343.1	344.0	346.0	348.9	350.8	355.6	360.5
32.5°	332.5	332.5	332.5	332.5	335.4	336.3	337.3	340.2	344.0	348.9	353.7
35°	322.8	322.8	322.8	323.8	325.7	326.7	328.6	331.5	335.4	340.2	345.0
37.5°	312.2	313.1	313.1	314.1	316.0	318.0	319.9	322.8	326.7	331.5	336.3
40°	300.6	301.5	301.5	302.5	304.4	306.4	308.3	312.2	316.0	320.9	325.7
42.5°	289.0	289.9	289.9	291.9	293.8	295.7	297.7	301.5	305.4	310.2	314.1
45°	276.4	277.4	277.4	279.3	282.2	283.2	286.1	289.9	293.8	297.7	301.5
47.5°	262.9	263.8	263.8	265.8	268.7	270.6	272.5	276.4	279.3	284.1	288.0
50°	247.4	248.4	249.3	251.3	255.1	257.1	259.0	261.9	265.8	268.7	272.5
52.5°	232.9	232.9	233.9	235.8	238.7	240.6	241.6	244.5	249.3	253.2	257.1
55°	216.5	217.4	218.4	220.3	223.2	225.2	226.1	229.0	231.9	234.8	238.7
57.5°	202.0	202.0	203.0	204.9	207.8	208.7	209.7	211.6	215.5	218.4	221.3
60°	184.6	185.6	186.5	188.5	190.4	192.3	192.3	195.2	198.1	201.0	203.0
62.5°	169.1	169.1	170.1	172.0	173.0	174.9	174.9	177.8	179.8	182.7	184.6
65°	150.8	151.7	152.7	153.7	155.6	155.6	156.6	158.5	160.4	162.4	165.3
67.5°	134.3	134.3	135.3	136.3	137.2	137.2	138.2	140.1	142.1	144.0	145.9
70°	116.0	116.9	116.9	116.9	117.9	118.9	119.8	120.8	122.7	123.7	125.6
72.5°	97.6	97.6	98.6	98.6	99.5	100.5	101.5	102.4	103.4	105.3	106.3
75°	79.2	79.2	80.2	80.2	81.2	81.2	81.2	83.1	84.1	86.0	87.0
77.5°	60.9	61.9	61.9	61.9	62.8	63.8	63.8	64.8	66.7	67.7	68.6
80°	44.5	44.5	44.5	44.5	45.4	46.4	47.4	47.4	49.3	51.2	52.2
82.5°	28.0	28.0	29.0	30.0	30.0	30.9	31.9	32.9	34.8	35.8	36.7
85°	14.5	14.5	15.5	16.4	17.4	18.4	18.4	19.3	21.3	23.2	24.2
87.5°	4.8	5.8	5.8	6.8	7.7	8.7	9.7	10.6	12.6	14.5	15.5
90°	1.0	1.0	1.0	1.9	2.9	2.9	3.9	4.8	5.8	6.8	8.7
92.5°	8.7	8.7	7.7	8.7	8.7	8.7	8.7	9.7	10.6	10.6	12.6
95°	26.1	25.1	25.1	25.1	25.1	25.1	25.1	26.1	27.1	27.1	28.0
97.5°	50.3	50.3	49.3	49.3	50.3	50.3	50.3	51.2	53.2	52.2	54.1
100°	78.3	78.3	77.3	78.3	79.2	80.2	82.1	82.1	84.1	84.1	87.0
102.5°	110.2	110.2	109.2	111.1	112.1	114.0	114.0	116.0	118.9	118.9	122.7
105°	142.1	143.0	143.0	145.0	146.9	148.8	148.8	151.7	155.6	155.6	160.4
107.5°	176.9	177.8	177.8	179.8	181.7	183.6	184.6	188.5	192.3	193.3	199.1
110°	210.7	211.6	212.6	214.5	216.5	219.4	221.3	225.2	230.0	231.9	236.8



TEST NUMBER: P395589

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	242.6	246.4	247.4	250.3	253.2	256.1	258.0	262.9	268.7	271.6	277.4
115°	279.3	281.2	282.2	285.1	289.0	291.9	293.8	298.6	304.4	308.3	315.1
117.5°	309.3	314.1	315.1	318.0	321.8	324.7	326.7	332.5	339.2	344.0	350.8
120°	341.2	345.0	348.9	350.8	353.7	357.6	359.5	365.3	373.0	377.9	385.6
122.5°	370.1	374.0	377.9	380.8	384.6	386.6	389.5	396.2	404.0	409.8	417.5
125°	399.1	404.0	406.9	409.8	414.6	416.5	419.4	426.2	433.9	440.7	448.4
127.5°	427.2	430.1	434.9	436.8	441.7	443.6	446.5	454.2	462.0	468.7	476.5
130°	453.3	457.1	461.0	462.0	467.8	470.7	473.6	480.3	489.0	495.8	503.5
132.5°	478.4	480.3	485.1	488.0	492.9	495.8	498.7	504.5	513.2	519.9	527.7
135°	501.6	503.5	509.3	512.2	515.1	518.0	521.9	527.7	536.4	543.1	550.9
137.5°	524.8	526.7	532.5	535.4	537.3	540.2	543.1	548.9	557.6	564.4	571.2
140°	546.0	548.0	551.8	555.7	557.6	559.6	562.5	568.3	576.0	582.8	589.5
142.5°	565.4	567.3	571.2	575.0	577.9	577.9	580.8	585.7	594.4	601.1	606.9
145°	583.7	584.7	588.6	592.4	596.3	596.3	597.3	602.1	609.8	617.5	623.3
147.5°	601.1	602.1	605.0	608.9	611.8	612.7	614.7	616.6	624.3	632.0	638.8
150°	616.6	617.5	619.5	623.3	625.3	627.2	629.1	630.1	635.9	642.7	650.4
152.5°	630.1	631.1	633.0	635.9	637.8	639.8	641.7	644.6	647.5	654.3	659.1
155°	643.6	644.6	645.6	648.5	650.4	651.4	652.3	656.2	659.1	663.0	667.8
157.5°	655.2	655.2	656.2	658.1	660.1	660.1	661.0	664.9	667.8	671.7	674.6
160°	664.9	664.9	665.9	667.8	667.8	668.8	669.7	672.6	674.6	679.4	683.3
162.5°	673.6	672.6	673.6	674.6	674.6	674.6	675.5	677.5	680.4	684.2	688.1
165°	680.4	680.4	680.4	681.3	681.3	680.4	680.4	682.3	684.2	687.1	690.0
167.5°	686.2	686.2	685.2	686.2	685.2	685.2	684.2	685.2	686.2	689.1	691.0
170°	691.0	690.0	690.0	690.0	689.1	688.1	688.1	688.1	688.1	690.0	692.0
172.5°	694.9	693.9	692.9	692.9	691.0	690.0	690.0	689.1	689.1	690.0	691.0
175°	695.8	694.9	693.9	693.9	692.0	691.0	690.0	690.0	689.1	690.0	691.0
177.5°	697.8	696.8	694.9	694.9	692.9	691.0	691.0	690.0	689.1	690.0	690.0
180°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1



TEST NUMBER: P395589

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6
2.5°	387.5	387.5	386.6	385.6	385.6	384.6	383.7	382.7	381.7	380.8
5°	387.5	386.6	385.6	385.6	384.6	384.6	384.6	383.7	382.7	382.7
7.5°	387.5	387.5	386.6	385.6	385.6	385.6	385.6	385.6	384.6	384.6
10°	387.5	386.6	386.6	386.6	385.6	386.6	386.6	385.6	385.6	384.6
12.5°	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	386.6	385.6
15°	384.6	385.6	385.6	386.6	386.6	386.6	387.5	387.5	386.6	386.6
17.5°	383.7	384.6	385.6	386.6	386.6	386.6	387.5	387.5	387.5	387.5
20°	381.7	382.7	383.7	384.6	384.6	385.6	385.6	386.6	386.6	386.6
22.5°	377.9	378.8	380.8	381.7	382.7	383.7	384.6	384.6	384.6	384.6
25°	374.0	375.9	376.9	378.8	379.8	380.8	381.7	381.7	381.7	382.7
27.5°	369.2	371.1	374.0	375.0	375.9	376.9	377.9	378.8	378.8	378.8
30°	363.4	366.3	368.2	370.1	371.1	372.1	373.0	373.0	374.0	374.0
32.5°	356.6	359.5	361.4	363.4	364.3	365.3	367.2	367.2	368.2	368.2
35°	347.9	350.8	353.7	355.6	356.6	357.6	359.5	360.5	360.5	360.5
37.5°	339.2	342.1	345.0	347.9	348.9	349.8	351.8	351.8	352.7	352.7
40°	328.6	331.5	334.4	337.3	337.3	339.2	340.2	341.2	342.1	342.1
42.5°	318.0	320.9	322.8	325.7	326.7	327.6	328.6	330.5	330.5	331.5
45°	305.4	308.3	310.2	313.1	314.1	315.1	317.0	318.0	318.9	318.9
47.5°	291.9	293.8	295.7	298.6	300.6	301.5	302.5	303.5	304.4	303.5
50°	276.4	278.3	281.2	284.1	285.1	286.1	288.0	288.0	289.0	289.0
52.5°	260.0	262.9	264.8	267.7	268.7	269.6	271.6	271.6	272.5	272.5
55°	241.6	243.5	245.5	250.3	251.3	252.2	254.2	254.2	255.1	256.1
57.5°	224.2	225.2	228.1	230.0	231.9	231.9	232.9	233.9	234.8	234.8
60°	205.8	206.8	208.7	211.6	211.6	212.6	214.5	214.5	215.5	215.5
62.5°	186.5	188.5	190.4	193.3	192.3	193.3	195.2	195.2	196.2	196.2
65°	167.2	168.2	170.1	172.0	173.0	173.0	174.0	174.9	175.9	175.9
67.5°	146.9	148.8	149.8	152.7	151.7	152.7	153.7	153.7	154.6	154.6
70°	127.6	128.5	130.5	131.4	131.4	132.4	133.4	133.4	133.4	134.3
72.5°	108.2	109.2	110.2	111.1	111.1	112.1	113.1	113.1	114.0	114.0
75°	87.9	89.9	90.8	92.8	91.8	92.8	94.7	94.7	94.7	94.7
77.5°	70.5	71.5	73.4	74.4	74.4	74.4	76.3	75.4	76.3	76.3
80°	53.2	54.1	56.1	57.0	57.0	58.0	59.0	59.0	59.0	59.9
82.5°	37.7	39.6	41.6	42.5	42.5	43.5	44.5	44.5	45.4	45.4
85°	26.1	28.0	30.0	30.0	30.9	31.9	32.9	32.9	32.9	32.9
87.5°	17.4	18.4	19.3	20.3	21.3	21.3	22.2	22.2	23.2	23.2
90°	9.7	10.6	11.6	12.6	12.6	13.5	13.5	14.5	14.5	14.5
92.5°	13.5	13.5	14.5	15.5	15.5	15.5	15.5	16.4	16.4	16.4
95°	29.0	30.0	30.0	31.9	31.9	31.9	32.9	32.9	32.9	32.9
97.5°	56.1	56.1	56.1	58.0	58.0	58.0	59.0	59.0	59.0	59.9
100°	87.9	88.9	88.9	91.8	90.8	92.8	92.8	92.8	92.8	93.7
102.5°	123.7	125.6	126.6	129.5	129.5	129.5	131.4	130.5	131.4	131.4
105°	162.4	164.3	165.3	168.2	170.1	170.1	172.0	171.1	172.0	173.0
107.5°	201.0	203.9	205.8	208.7	210.7	211.6	211.6	212.6	213.6	214.5
110°	240.6	243.5	248.4	251.3	252.2	254.2	255.1	256.1	257.1	259.0





TEST NUMBER: P395589

CATALOG NUMBER: I3-FL-50L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	282.2	285.1	289.0	292.8	291.9	294.8	296.7	297.7	298.6	297.7
115°	319.9	323.8	327.6	331.5	331.5	333.4	337.3	338.3	338.3	340.2
117.5°	355.6	360.5	364.3	368.2	369.2	371.1	374.0	376.9	376.9	378.8
120°	390.4	396.2	400.1	404.0	405.9	406.9	409.8	413.6	413.6	413.6
122.5°	423.3	428.1	433.0	436.8	438.8	440.7	442.6	447.5	447.5	449.4
125°	454.2	460.0	464.9	468.7	470.7	472.6	476.5	479.3	480.3	480.3
127.5°	483.2	489.0	493.8	498.7	499.6	501.6	505.4	509.3	510.3	511.2
130°	510.3	516.1	520.9	525.7	527.7	528.6	533.5	536.4	538.3	539.3
132.5°	534.4	540.2	545.1	549.9	551.8	553.8	556.7	561.5	562.5	562.5
135°	556.7	562.5	567.3	573.1	574.1	576.0	579.9	582.8	584.7	585.7
137.5°	577.0	582.8	588.6	593.4	595.3	596.3	600.2	604.0	606.0	606.9
140°	595.3	601.1	606.9	610.8	611.8	614.7	617.5	621.4	623.3	624.3
142.5°	612.7	617.5	622.4	627.2	628.2	630.1	633.0	636.9	638.8	639.8
145°	628.2	633.0	636.9	640.7	641.7	643.6	646.5	649.4	651.4	652.3
147.5°	642.7	646.5	650.4	653.3	654.3	656.2	658.1	660.1	662.0	663.0
150°	655.2	657.2	661.0	663.0	663.9	665.9	667.8	669.7	671.7	672.6
152.5°	664.9	667.8	669.7	672.6	673.6	674.6	676.5	678.4	680.4	680.4
155°	672.6	675.5	677.5	680.4	681.3	682.3	684.2	685.2	687.1	687.1
157.5°	678.4	681.3	683.3	685.2	686.2	687.1	688.1	690.0	692.0	692.0
160°	685.2	686.2	687.1	689.1	689.1	690.0	691.0	692.0	693.9	693.9
162.5°	691.0	692.0	690.0	691.0	690.0	691.0	692.0	692.9	693.9	693.9
165°	692.9	694.9	693.9	694.9	694.9	694.9	694.9	695.8	695.8	695.8
167.5°	692.9	694.9	693.9	693.9	694.9	694.9	695.8	696.8	696.8	696.8
170°	692.9	693.9	692.9	692.0	692.9	692.9	692.9	693.9	693.9	693.9
172.5°	692.0	692.9	691.0	690.0	690.0	690.0	689.1	689.1	688.1	688.1
175°	691.0	691.0	689.1	688.1	688.1	688.1	686.2	685.2	684.2	683.3
177.5°	690.0	690.0	687.1	686.2	686.2	685.2	685.2	683.3	683.3	682.3
180°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1

(END OF REPORT)