

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: P395574

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395574  
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-50L82765-1D-UNV-W2A-W-4 (5700K)  
Description: CORELITE I3, FROSTED TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4751.1 lumens  
Efficiency: N/A  
Efficacy: 130.2 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

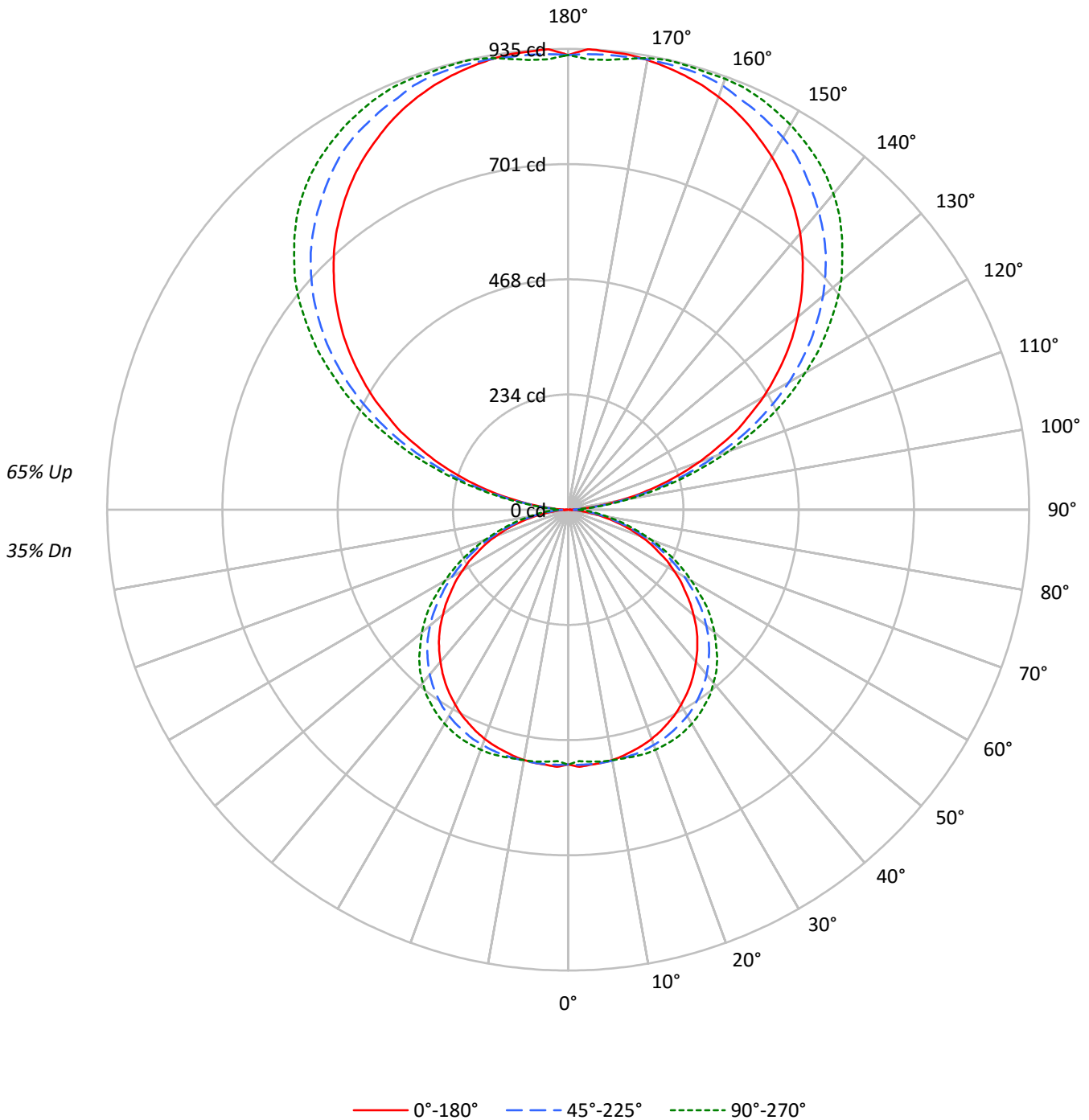
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

**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°	2842	2842	2842
5°	2856	2794	2751
10°	2857	2756	2718
15°	2850	2733	2707
20°	2851	2709	2703
25°	2843	2684	2693
30°	2833	2659	2669
35°	2819	2616	2629
40°	2791	2561	2571
45°	2762	2482	2493
50°	2699	2373	2371
55°	2622	2223	2229
60°	2534	2048	2013
65°	2409	1836	1788
70°	2237	1564	1511
75°	1946	1243	1202
80°	1520	884	879
85°	823	506	578



TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	1.0
10°-20°	145.0	3.1
20°-30°	228.6	4.8
30°-40°	287.3	6.0
40°-50°	308.9	6.5
50°-60°	284.2	6.0
60°-70°	217.7	4.6
70°-80°	124.0	2.6
80°-90°	38.7	0.8
90°-100°	51.8	1.1
100°-110°	225.2	4.7
110°-120°	412.2	8.7
120°-130°	531.3	11.2
130°-140°	565.4	11.9
140°-150°	520.2	10.9
150°-160°	412.1	8.7
160°-170°	260.9	5.5
170°-180°	88.4	1.9
0°-30°	422.9	8.9
0°-40°	710.2	14.9
0°-60°	1303.3	27.4
0°-90°	1683.7	35.4
90°-120°	689.2	14.5
90°-150°	2306.0	48.5
90°-180°	3067.0	64.6
0°-180°	4751.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	520	514	518	516	513	49
15°	507	504	514	518	518	143
25°	478	479	498	509	513	221
35°	433	438	462	478	483	271
45°	370	380	404	421	428	285
55°	290	302	320	337	343	260
65°	202	209	222	232	236	201
75°	106	109	117	123	127	112
85°	19	25	32	42	44	24
90°	1	4	12	17	19	3
95°	35	34	38	43	44	44
105°	190	200	215	228	232	203
115°	374	391	422	444	456	367
125°	535	558	601	631	644	478
135°	672	694	738	770	785	519
145°	783	799	836	860	874	490
155°	863	873	895	913	921	398
165°	912	912	925	932	933	258
175°	933	926	926	922	916	89
180°	922	922	922	922	922	



TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0
2.5°	522.1	520.8	519.5	517.0	517.0	515.7	515.7	515.7	515.7	517.0	518.2
5°	519.5	519.5	518.2	515.7	515.7	514.4	514.4	515.7	514.4	515.7	518.2
7.5°	518.2	518.2	517.0	514.4	514.4	514.4	514.4	514.4	514.4	515.7	518.2
10°	515.7	515.7	513.1	511.8	511.8	511.8	511.8	513.1	513.1	514.4	517.0
12.5°	511.8	510.5	509.2	507.9	507.9	507.9	509.2	510.5	510.5	513.1	515.7
15°	506.6	506.6	505.3	504.0	504.0	504.0	505.3	506.6	507.9	510.5	514.4
17.5°	501.4	501.4	500.1	500.1	500.1	500.1	501.4	502.7	505.3	507.9	511.8
20°	494.9	494.9	493.6	493.6	493.6	494.9	494.9	497.5	500.1	504.0	507.9
22.5°	487.2	487.2	487.2	485.9	487.2	488.4	489.7	492.3	494.9	498.8	504.0
25°	478.1	478.1	478.1	478.1	479.4	479.4	482.0	484.6	487.2	492.3	497.5
27.5°	469.0	469.0	469.0	467.7	470.3	471.6	472.9	476.8	479.4	485.9	491.0
30°	457.4	457.4	457.4	458.6	459.9	461.2	463.8	467.7	470.3	476.8	483.3
32.5°	445.7	445.7	445.7	445.7	449.6	450.9	452.2	456.1	461.2	467.7	474.2
35°	432.7	432.7	432.7	434.0	436.6	437.9	440.5	444.4	449.6	456.1	462.5
37.5°	418.5	419.8	419.8	421.1	423.7	426.3	428.8	432.7	437.9	444.4	450.9
40°	402.9	404.2	404.2	405.5	408.1	410.7	413.3	418.5	423.7	430.1	436.6
42.5°	387.4	388.7	388.7	391.3	393.9	396.5	399.0	404.2	409.4	415.9	421.1
45°	370.5	371.8	371.8	374.4	378.3	379.6	383.5	388.7	393.9	399.0	404.2
47.5°	352.4	353.7	353.7	356.3	360.2	362.8	365.4	370.5	374.4	380.9	386.1
50°	331.7	333.0	334.3	336.9	342.0	344.6	347.2	351.1	356.3	360.2	365.4
52.5°	312.2	312.2	313.5	316.1	320.0	322.6	323.9	327.8	334.3	339.5	344.6
55°	290.2	291.5	292.8	295.4	299.3	301.9	303.2	307.1	310.9	314.8	320.0
57.5°	270.8	270.8	272.1	274.7	278.6	279.9	281.1	283.7	288.9	292.8	296.7
60°	247.5	248.8	250.1	252.6	255.2	257.8	257.8	261.7	265.6	269.5	272.1
62.5°	226.7	226.7	228.0	230.6	231.9	234.5	234.5	238.4	241.0	244.9	247.5
65°	202.1	203.4	204.7	206.0	208.6	208.6	209.9	212.5	215.1	217.7	221.6
67.5°	180.1	180.1	181.4	182.7	184.0	184.0	185.3	187.9	190.5	193.0	195.6
70°	155.5	156.8	156.8	156.8	158.1	159.4	160.7	162.0	164.5	165.8	168.4
72.5°	130.9	130.9	132.2	132.2	133.4	134.7	136.0	137.3	138.6	141.2	142.5
75°	106.2	106.2	107.5	107.5	108.8	108.8	108.8	111.4	112.7	115.3	116.6
77.5°	81.6	82.9	82.9	82.9	84.2	85.5	85.5	86.8	89.4	90.7	92.0
80°	59.6	59.6	59.6	59.6	60.9	62.2	63.5	63.5	66.1	68.7	70.0
82.5°	37.6	37.6	38.9	40.2	40.2	41.5	42.8	44.1	46.6	47.9	49.2
85°	19.4	19.4	20.7	22.0	23.3	24.6	24.6	25.9	28.5	31.1	32.4
87.5°	6.5	7.8	7.8	9.1	10.4	11.7	13.0	14.3	16.8	19.4	20.7
90°	1.3	1.3	1.3	2.6	3.9	3.9	5.2	6.5	7.8	9.1	11.7
92.5°	11.7	11.7	10.4	11.7	11.7	11.7	11.7	13.0	14.3	14.3	16.8
95°	35.0	33.7	33.7	33.7	33.7	33.7	33.7	35.0	36.3	36.3	37.6
97.5°	67.4	67.4	66.1	66.1	67.4	67.4	67.4	68.7	71.3	70.0	72.6
100°	104.9	104.9	103.6	104.9	106.2	107.5	110.1	110.1	112.7	112.7	116.6
102.5°	147.7	147.7	146.4	149.0	150.3	152.9	152.9	155.5	159.4	159.4	164.5
105°	190.5	191.8	191.8	194.3	196.9	199.5	199.5	203.4	208.6	208.6	215.1
107.5°	237.1	238.4	238.4	241.0	243.6	246.2	247.5	252.6	257.8	259.1	266.9
110°	282.4	283.7	285.0	287.6	290.2	294.1	296.7	301.9	308.4	310.9	317.4



TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	325.2	330.4	331.7	335.6	339.5	343.3	345.9	352.4	360.2	364.1	371.8
115°	374.4	377.0	378.3	382.2	387.4	391.3	393.9	400.3	408.1	413.3	422.4
117.5°	414.6	421.1	422.4	426.3	431.4	435.3	437.9	445.7	454.8	461.2	470.3
120°	457.4	462.5	467.7	470.3	474.2	479.4	482.0	489.7	500.1	506.6	517.0
122.5°	496.2	501.4	506.6	510.5	515.7	518.2	522.1	531.2	541.6	549.3	559.7
125°	535.1	541.6	545.5	549.3	555.8	558.4	562.3	571.4	581.7	590.8	601.2
127.5°	572.7	576.5	583.0	585.6	592.1	594.7	598.6	608.9	619.3	628.4	638.7
130°	607.6	612.8	618.0	619.3	627.1	631.0	634.9	643.9	655.6	664.7	675.0
132.5°	641.3	643.9	650.4	654.3	660.8	664.7	668.5	676.3	688.0	697.0	707.4
135°	672.4	675.0	682.8	686.7	690.6	694.4	699.6	707.4	719.1	728.1	738.5
137.5°	703.5	706.1	713.9	717.8	720.4	724.2	728.1	735.9	747.6	756.6	765.7
140°	732.0	734.6	739.8	745.0	747.6	750.2	754.0	761.8	772.2	781.3	790.3
142.5°	757.9	760.5	765.7	770.9	774.8	774.8	778.7	785.1	796.8	805.9	813.6
145°	782.6	783.8	789.0	794.2	799.4	799.4	800.7	807.2	817.5	827.9	835.7
147.5°	805.9	807.2	811.1	816.2	820.1	821.4	824.0	826.6	837.0	847.3	856.4
150°	826.6	827.9	830.5	835.7	838.3	840.9	843.4	844.7	852.5	861.6	871.9
152.5°	844.7	846.0	848.6	852.5	855.1	857.7	860.3	864.2	868.1	877.1	883.6
155°	862.9	864.2	865.5	869.4	871.9	873.2	874.5	879.7	883.6	888.8	895.3
157.5°	878.4	878.4	879.7	882.3	884.9	884.9	886.2	891.4	895.3	900.5	904.3
160°	891.4	891.4	892.7	895.3	895.3	896.6	897.9	901.7	904.3	910.8	916.0
162.5°	903.0	901.7	903.0	904.3	904.3	904.3	905.6	908.2	912.1	917.3	922.5
165°	912.1	912.1	912.1	913.4	913.4	912.1	912.1	914.7	917.3	921.2	925.1
167.5°	919.9	919.9	918.6	919.9	918.6	918.6	917.3	918.6	919.9	923.8	926.4
170°	926.4	925.1	925.1	925.1	923.8	922.5	922.5	922.5	922.5	925.1	927.7
172.5°	931.5	930.3	929.0	929.0	926.4	925.1	925.1	923.8	923.8	925.1	926.4
175°	932.8	931.5	930.3	930.3	927.7	926.4	925.1	925.1	923.8	925.1	926.4
177.5°	935.4	934.1	931.5	931.5	929.0	926.4	926.4	925.1	923.8	925.1	925.1
180°	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5



TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0
2.5°	519.5	519.5	518.2	517.0	517.0	515.7	514.4	513.1	511.8	510.5
5°	519.5	518.2	517.0	517.0	515.7	515.7	515.7	514.4	513.1	513.1
7.5°	519.5	519.5	518.2	517.0	517.0	517.0	517.0	517.0	515.7	515.7
10°	519.5	518.2	518.2	518.2	517.0	518.2	518.2	517.0	517.0	515.7
12.5°	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	517.0
15°	515.7	517.0	517.0	518.2	518.2	518.2	519.5	519.5	518.2	518.2
17.5°	514.4	515.7	517.0	518.2	518.2	518.2	519.5	519.5	519.5	519.5
20°	511.8	513.1	514.4	515.7	515.7	517.0	517.0	518.2	518.2	518.2
22.5°	506.6	507.9	510.5	511.8	513.1	514.4	515.7	515.7	515.7	515.7
25°	501.4	504.0	505.3	507.9	509.2	510.5	511.8	511.8	511.8	513.1
27.5°	494.9	497.5	501.4	502.7	504.0	505.3	506.6	507.9	507.9	507.9
30°	487.2	491.0	493.6	496.2	497.5	498.8	500.1	500.1	501.4	501.4
32.5°	478.1	482.0	484.6	487.2	488.4	489.7	492.3	492.3	493.6	493.6
35°	466.4	470.3	474.2	476.8	478.1	479.4	482.0	483.3	483.3	483.3
37.5°	454.8	458.6	462.5	466.4	467.7	469.0	471.6	471.6	472.9	472.9
40°	440.5	444.4	448.3	452.2	452.2	454.8	456.1	457.4	458.6	458.6
42.5°	426.3	430.1	432.7	436.6	437.9	439.2	440.5	443.1	443.1	444.4
45°	409.4	413.3	415.9	419.8	421.1	422.4	425.0	426.3	427.6	427.6
47.5°	391.3	393.9	396.5	400.3	402.9	404.2	405.5	406.8	408.1	406.8
50°	370.5	373.1	377.0	380.9	382.2	383.5	386.1	386.1	387.4	387.4
52.5°	348.5	352.4	355.0	358.9	360.2	361.5	364.1	364.1	365.4	365.4
55°	323.9	326.5	329.1	335.6	336.9	338.2	340.7	340.7	342.0	343.3
57.5°	300.6	301.9	305.8	308.4	310.9	310.9	312.2	313.5	314.8	314.8
60°	276.0	277.3	279.9	283.7	283.7	285.0	287.6	287.6	288.9	288.9
62.5°	250.1	252.6	255.2	259.1	257.8	259.1	261.7	261.7	263.0	263.0
65°	224.1	225.4	228.0	230.6	231.9	231.9	233.2	234.5	235.8	235.8
67.5°	196.9	199.5	200.8	204.7	203.4	204.7	206.0	206.0	207.3	207.3
70°	171.0	172.3	174.9	176.2	176.2	177.5	178.8	178.8	178.8	180.1
72.5°	145.1	146.4	147.7	149.0	149.0	150.3	151.6	151.6	152.9	152.9
75°	117.9	120.5	121.8	124.4	123.1	124.4	127.0	127.0	127.0	127.0
77.5°	94.6	95.9	98.5	99.8	99.8	99.8	102.4	101.1	102.4	102.4
80°	71.3	72.6	75.1	76.4	76.4	77.7	79.0	79.0	79.0	80.3
82.5°	50.5	53.1	55.7	57.0	57.0	58.3	59.6	59.6	60.9	60.9
85°	35.0	37.6	40.2	40.2	41.5	42.8	44.1	44.1	44.1	44.1
87.5°	23.3	24.6	25.9	27.2	28.5	28.5	29.8	29.8	31.1	31.1
90°	13.0	14.3	15.5	16.8	16.8	18.1	18.1	19.4	19.4	19.4
92.5°	18.1	18.1	19.4	20.7	20.7	20.7	20.7	22.0	22.0	22.0
95°	38.9	40.2	40.2	42.8	42.8	42.8	44.1	44.1	44.1	44.1
97.5°	75.1	75.1	75.1	77.7	77.7	77.7	79.0	79.0	79.0	80.3
100°	117.9	119.2	119.2	123.1	121.8	124.4	124.4	124.4	124.4	125.7
102.5°	165.8	168.4	169.7	173.6	173.6	173.6	176.2	174.9	176.2	176.2
105°	217.7	220.3	221.6	225.4	228.0	228.0	230.6	229.3	230.6	231.9
107.5°	269.5	273.4	276.0	279.9	282.4	283.7	283.7	285.0	286.3	287.6
110°	322.6	326.5	333.0	336.9	338.2	340.7	342.0	343.3	344.6	347.2





TEST NUMBER: P395574

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	378.3	382.2	387.4	392.6	391.3	395.2	397.8	399.0	400.3	399.0
115°	428.8	434.0	439.2	444.4	444.4	447.0	452.2	453.5	453.5	456.1
117.5°	476.8	483.3	488.4	493.6	494.9	497.5	501.4	505.3	505.3	507.9
120°	523.4	531.2	536.4	541.6	544.2	545.5	549.3	554.5	554.5	554.5
122.5°	567.5	574.0	580.4	585.6	588.2	590.8	593.4	599.9	599.9	602.5
125°	608.9	616.7	623.2	628.4	631.0	633.6	638.7	642.6	643.9	643.9
127.5°	647.8	655.6	662.1	668.5	669.8	672.4	677.6	682.8	684.1	685.4
130°	684.1	691.9	698.3	704.8	707.4	708.7	715.2	719.1	721.7	723.0
132.5°	716.5	724.2	730.7	737.2	739.8	742.4	746.3	752.8	754.0	754.0
135°	746.3	754.0	760.5	768.3	769.6	772.2	777.4	781.3	783.8	785.1
137.5°	773.5	781.3	789.0	795.5	798.1	799.4	804.6	809.8	812.4	813.6
140°	798.1	805.9	813.6	818.8	820.1	824.0	827.9	833.1	835.7	837.0
142.5°	821.4	827.9	834.4	840.9	842.1	844.7	848.6	853.8	856.4	857.7
145°	842.1	848.6	853.8	859.0	860.3	862.9	866.8	870.7	873.2	874.5
147.5°	861.6	866.8	871.9	875.8	877.1	879.7	882.3	884.9	887.5	888.8
150°	878.4	881.0	886.2	888.8	890.1	892.7	895.3	897.9	900.5	901.7
152.5°	891.4	895.3	897.9	901.7	903.0	904.3	906.9	909.5	912.1	912.1
155°	901.7	905.6	908.2	912.1	913.4	914.7	917.3	918.6	921.2	921.2
157.5°	909.5	913.4	916.0	918.6	919.9	921.2	922.5	925.1	927.7	927.7
160°	918.6	919.9	921.2	923.8	923.8	925.1	926.4	927.7	930.3	930.3
162.5°	926.4	927.7	925.1	926.4	925.1	926.4	927.7	929.0	930.3	930.3
165°	929.0	931.5	930.3	931.5	931.5	931.5	931.5	932.8	932.8	932.8
167.5°	929.0	931.5	930.3	930.3	931.5	931.5	932.8	934.1	934.1	934.1
170°	929.0	930.3	929.0	927.7	929.0	929.0	929.0	930.3	930.3	930.3
172.5°	927.7	929.0	926.4	925.1	925.1	925.1	923.8	923.8	922.5	922.5
175°	926.4	926.4	923.8	922.5	922.5	922.5	919.9	918.6	917.3	916.0
177.5°	925.1	925.1	921.2	919.9	919.9	918.6	918.6	916.0	916.0	914.7
180°	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5	922.5

(END OF REPORT)