

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: P395569

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395569
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 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.2 lumens
Efficiency: N/A
Efficacy: 121.8 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

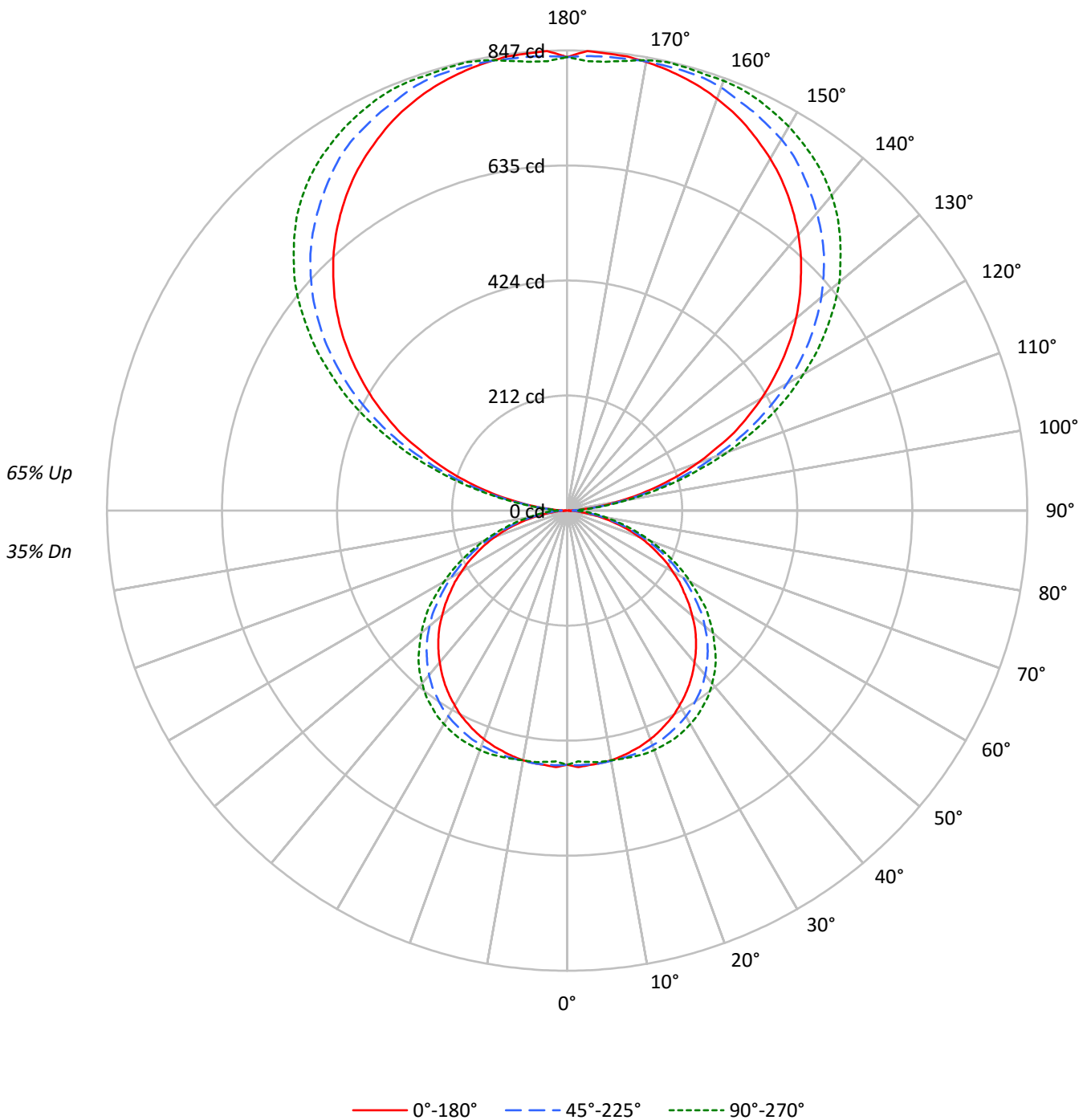
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2572	2572	2572
5°	2585	2529	2490
10°	2585	2495	2460
15°	2580	2473	2450
20°	2580	2452	2447
25°	2573	2430	2438
30°	2564	2407	2415
35°	2552	2368	2380
40°	2527	2319	2327
45°	2501	2247	2256
50°	2443	2148	2146
55°	2373	2012	2017
60°	2293	1854	1822
65°	2180	1661	1618
70°	2024	1415	1367
75°	1763	1125	1087
80°	1374	799	796
85°	747	458	523



TEST NUMBER: P395569

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	131.2	3.1
20°-30°	206.9	4.8
30°-40°	260.1	6.0
40°-50°	279.6	6.5
50°-60°	257.2	6.0
60°-70°	197.0	4.6
70°-80°	112.2	2.6
80°-90°	35.0	0.8
90°-100°	46.9	1.1
100°-110°	203.8	4.7
110°-120°	373.1	8.7
120°-130°	480.9	11.2
130°-140°	511.7	11.9
140°-150°	470.8	10.9
150°-160°	373.0	8.7
160°-170°	236.2	5.5
170°-180°	80.0	1.9
0°-30°	382.7	8.9
0°-40°	642.8	14.9
0°-60°	1179.6	27.4
0°-90°	1523.9	35.4
90°-120°	623.7	14.5
90°-150°	2087.2	48.5
90°-180°	2776.0	64.6
0°-180°	4300.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	470	466	469	467	464	45
15°	458	456	466	469	469	130
25°	433	434	450	461	464	200
35°	392	396	419	433	437	245
45°	335	344	366	381	387	258
55°	263	273	290	305	311	235
65°	183	189	200	210	213	181
75°	96	98	106	111	115	102
85°	18	22	29	38	40	22
90°	1	4	11	15	18	3
95°	32	30	34	39	40	40
105°	172	181	195	206	210	183
115°	339	354	382	402	413	332
125°	484	505	544	571	583	433
135°	609	628	668	696	711	470
145°	708	724	756	779	792	443
155°	781	790	810	827	834	360
165°	826	826	837	843	844	233
175°	844	838	838	835	829	80
180°	835	835	835	835	835	



TEST NUMBER: P395569

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9
2.5°	472.6	471.4	470.2	467.9	467.9	466.7	466.7	466.7	466.7	467.9	469.1
5°	470.2	470.2	469.1	466.7	466.7	465.5	465.5	466.7	465.5	466.7	469.1
7.5°	469.1	469.1	467.9	465.5	465.5	465.5	465.5	465.5	465.5	466.7	469.1
10°	466.7	466.7	464.4	463.2	463.2	463.2	463.2	464.4	464.4	465.5	467.9
12.5°	463.2	462.0	460.8	459.7	459.7	459.7	460.8	462.0	462.0	464.4	466.7
15°	458.5	458.5	457.3	456.2	456.2	456.2	457.3	458.5	459.7	462.0	465.5
17.5°	453.8	453.8	452.6	452.6	452.6	452.6	453.8	455.0	457.3	459.7	463.2
20°	447.9	447.9	446.8	446.8	446.8	447.9	447.9	450.3	452.6	456.2	459.7
22.5°	440.9	440.9	440.9	439.7	440.9	442.1	443.3	445.6	447.9	451.5	456.2
25°	432.7	432.7	432.7	432.7	433.9	433.9	436.2	438.6	440.9	445.6	450.3
27.5°	424.5	424.5	424.5	423.3	425.7	426.8	428.0	431.5	433.9	439.7	444.4
30°	413.9	413.9	413.9	415.1	416.3	417.5	419.8	423.3	425.7	431.5	437.4
32.5°	403.4	403.4	403.4	403.4	406.9	408.1	409.3	412.8	417.5	423.3	429.2
35°	391.7	391.7	391.7	392.8	395.2	396.4	398.7	402.2	406.9	412.8	418.6
37.5°	378.8	379.9	379.9	381.1	383.5	385.8	388.1	391.7	396.4	402.2	408.1
40°	364.7	365.9	365.9	367.0	369.4	371.7	374.1	378.8	383.5	389.3	395.2
42.5°	350.6	351.8	351.8	354.1	356.5	358.8	361.2	365.9	370.6	376.4	381.1
45°	335.4	336.5	336.5	338.9	342.4	343.6	347.1	351.8	356.5	361.2	365.9
47.5°	319.0	320.1	320.1	322.5	326.0	328.3	330.7	335.4	338.9	344.8	349.4
50°	300.2	301.4	302.5	304.9	309.6	311.9	314.3	317.8	322.5	326.0	330.7
52.5°	282.6	282.6	283.8	286.1	289.6	292.0	293.2	296.7	302.5	307.2	311.9
55°	262.7	263.8	265.0	267.4	270.9	273.2	274.4	277.9	281.4	285.0	289.6
57.5°	245.1	245.1	246.3	248.6	252.1	253.3	254.5	256.8	261.5	265.0	268.5
60°	224.0	225.1	226.3	228.7	231.0	233.4	233.4	236.9	240.4	243.9	246.3
62.5°	205.2	205.2	206.4	208.7	209.9	212.2	212.2	215.8	218.1	221.6	224.0
65°	182.9	184.1	185.3	186.4	188.8	188.8	190.0	192.3	194.7	197.0	200.5
67.5°	163.0	163.0	164.2	165.3	166.5	166.5	167.7	170.0	172.4	174.7	177.1
70°	140.7	141.9	141.9	141.9	143.1	144.2	145.4	146.6	148.9	150.1	152.4
72.5°	118.4	118.4	119.6	119.6	120.8	122.0	123.1	124.3	125.5	127.8	129.0
75°	96.2	96.2	97.3	97.3	98.5	98.5	98.5	100.8	102.0	104.4	105.5
77.5°	73.9	75.0	75.0	75.0	76.2	77.4	77.4	78.6	80.9	82.1	83.3
80°	53.9	53.9	53.9	53.9	55.1	56.3	57.5	57.5	59.8	62.1	63.3
82.5°	34.0	34.0	35.2	36.4	36.4	37.5	38.7	39.9	42.2	43.4	44.6
85°	17.6	17.6	18.8	19.9	21.1	22.3	22.3	23.5	25.8	28.1	29.3
87.5°	5.9	7.0	7.0	8.2	9.4	10.6	11.7	12.9	15.2	17.6	18.8
90°	1.2	1.2	1.2	2.3	3.5	3.5	4.7	5.9	7.0	8.2	10.6
92.5°	10.6	10.6	9.4	10.6	10.6	10.6	10.6	11.7	12.9	12.9	15.2
95°	31.7	30.5	30.5	30.5	30.5	30.5	30.5	31.7	32.8	32.8	34.0
97.5°	61.0	61.0	59.8	59.8	61.0	61.0	61.0	62.1	64.5	63.3	65.7
100°	95.0	95.0	93.8	95.0	96.2	97.3	99.7	99.7	102.0	102.0	105.5
102.5°	133.7	133.7	132.5	134.9	136.0	138.4	138.4	140.7	144.2	144.2	148.9
105°	172.4	173.6	173.6	175.9	178.2	180.6	180.6	184.1	188.8	188.8	194.7
107.5°	214.6	215.8	215.8	218.1	220.5	222.8	224.0	228.7	233.4	234.5	241.6
110°	255.6	256.8	258.0	260.3	262.7	266.2	268.5	273.2	279.1	281.4	287.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	294.3	299.0	300.2	303.7	307.2	310.7	313.1	319.0	326.0	329.5	336.5
115°	338.9	341.2	342.4	345.9	350.6	354.1	356.5	362.3	369.4	374.1	382.3
117.5°	375.2	381.1	382.3	385.8	390.5	394.0	396.4	403.4	411.6	417.5	425.7
120°	413.9	418.6	423.3	425.7	429.2	433.9	436.2	443.3	452.6	458.5	467.9
122.5°	449.1	453.8	458.5	462.0	466.7	469.1	472.6	480.8	490.2	497.2	506.6
125°	484.3	490.2	493.7	497.2	503.1	505.4	508.9	517.1	526.5	534.7	544.1
127.5°	518.3	521.8	527.7	530.0	535.9	538.2	541.8	551.1	560.5	568.7	578.1
130°	550.0	554.7	559.3	560.5	567.6	571.1	574.6	582.8	593.4	601.6	610.9
132.5°	580.5	582.8	588.7	592.2	598.0	601.6	605.1	612.1	622.7	630.9	640.3
135°	608.6	610.9	618.0	621.5	625.0	628.5	633.2	640.3	650.8	659.0	668.4
137.5°	636.7	639.1	646.1	649.6	652.0	655.5	659.0	666.1	676.6	684.8	693.0
140°	662.5	664.9	669.6	674.3	676.6	679.0	682.5	689.5	698.9	707.1	715.3
142.5°	686.0	688.3	693.0	697.7	701.2	701.2	704.8	710.6	721.2	729.4	736.4
145°	708.3	709.4	714.1	718.8	723.5	723.5	724.7	730.6	739.9	749.3	756.4
147.5°	729.4	730.6	734.1	738.8	742.3	743.5	745.8	748.1	757.5	766.9	775.1
150°	748.1	749.3	751.7	756.4	758.7	761.0	763.4	764.6	771.6	779.8	789.2
152.5°	764.6	765.7	768.1	771.6	773.9	776.3	778.6	782.1	785.7	793.9	799.7
155°	781.0	782.1	783.3	786.8	789.2	790.4	791.5	796.2	799.7	804.4	810.3
157.5°	795.0	795.0	796.2	798.6	800.9	800.9	802.1	806.8	810.3	815.0	818.5
160°	806.8	806.8	807.9	810.3	810.3	811.5	812.6	816.2	818.5	824.4	829.1
162.5°	817.3	816.2	817.3	818.5	818.5	818.5	819.7	822.0	825.5	830.2	834.9
165°	825.5	825.5	825.5	826.7	826.7	825.5	825.5	827.9	830.2	833.7	837.3
167.5°	832.6	832.6	831.4	832.6	831.4	831.4	830.2	831.4	832.6	836.1	838.4
170°	838.4	837.3	837.3	837.3	836.1	834.9	834.9	834.9	834.9	837.3	839.6
172.5°	843.1	842.0	840.8	840.8	838.4	837.3	837.3	836.1	836.1	837.3	838.4
175°	844.3	843.1	842.0	842.0	839.6	838.4	837.3	837.3	836.1	837.3	838.4
177.5°	846.6	845.5	843.1	843.1	840.8	838.4	838.4	837.3	836.1	837.3	837.3
180°	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9
2.5°	470.2	470.2	469.1	467.9	467.9	466.7	465.5	464.4	463.2	462.0
5°	470.2	469.1	467.9	467.9	466.7	466.7	466.7	465.5	464.4	464.4
7.5°	470.2	470.2	469.1	467.9	467.9	467.9	467.9	467.9	466.7	466.7
10°	470.2	469.1	469.1	469.1	467.9	469.1	469.1	467.9	467.9	466.7
12.5°	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	469.1	467.9
15°	466.7	467.9	467.9	469.1	469.1	469.1	470.2	470.2	469.1	469.1
17.5°	465.5	466.7	467.9	469.1	469.1	469.1	470.2	470.2	470.2	470.2
20°	463.2	464.4	465.5	466.7	466.7	467.9	467.9	469.1	469.1	469.1
22.5°	458.5	459.7	462.0	463.2	464.4	465.5	466.7	466.7	466.7	466.7
25°	453.8	456.2	457.3	459.7	460.8	462.0	463.2	463.2	463.2	464.4
27.5°	447.9	450.3	453.8	455.0	456.2	457.3	458.5	459.7	459.7	459.7
30°	440.9	444.4	446.8	449.1	450.3	451.5	452.6	452.6	453.8	453.8
32.5°	432.7	436.2	438.6	440.9	442.1	443.3	445.6	445.6	446.8	446.8
35°	422.1	425.7	429.2	431.5	432.7	433.9	436.2	437.4	437.4	437.4
37.5°	411.6	415.1	418.6	422.1	423.3	424.5	426.8	426.8	428.0	428.0
40°	398.7	402.2	405.7	409.3	409.3	411.6	412.8	413.9	415.1	415.1
42.5°	385.8	389.3	391.7	395.2	396.4	397.5	398.7	401.0	401.0	402.2
45°	370.6	374.1	376.4	379.9	381.1	382.3	384.6	385.8	387.0	387.0
47.5°	354.1	356.5	358.8	362.3	364.7	365.9	367.0	368.2	369.4	368.2
50°	335.4	337.7	341.2	344.8	345.9	347.1	349.4	349.4	350.6	350.6
52.5°	315.4	319.0	321.3	324.8	326.0	327.2	329.5	329.5	330.7	330.7
55°	293.2	295.5	297.8	303.7	304.9	306.1	308.4	308.4	309.6	310.7
57.5°	272.1	273.2	276.7	279.1	281.4	281.4	282.6	283.8	285.0	285.0
60°	249.8	250.9	253.3	256.8	256.8	258.0	260.3	260.3	261.5	261.5
62.5°	226.3	228.7	231.0	234.5	233.4	234.5	236.9	236.9	238.0	238.0
65°	202.9	204.0	206.4	208.7	209.9	209.9	211.1	212.2	213.4	213.4
67.5°	178.2	180.6	181.8	185.3	184.1	185.3	186.4	186.4	187.6	187.6
70°	154.8	156.0	158.3	159.5	159.5	160.7	161.8	161.8	161.8	163.0
72.5°	131.3	132.5	133.7	134.9	134.9	136.0	137.2	137.2	138.4	138.4
75°	106.7	109.1	110.2	112.6	111.4	112.6	114.9	114.9	114.9	114.9
77.5°	85.6	86.8	89.1	90.3	90.3	90.3	92.6	91.5	92.6	92.6
80°	64.5	65.7	68.0	69.2	69.2	70.4	71.5	71.5	71.5	72.7
82.5°	45.7	48.1	50.4	51.6	51.6	52.8	53.9	53.9	55.1	55.1
85°	31.7	34.0	36.4	36.4	37.5	38.7	39.9	39.9	39.9	39.9
87.5°	21.1	22.3	23.5	24.6	25.8	25.8	27.0	27.0	28.1	28.1
90°	11.7	12.9	14.1	15.2	15.2	16.4	16.4	17.6	17.6	17.6
92.5°	16.4	16.4	17.6	18.8	18.8	18.8	18.8	19.9	19.9	19.9
95°	35.2	36.4	36.4	38.7	38.7	38.7	39.9	39.9	39.9	39.9
97.5°	68.0	68.0	68.0	70.4	70.4	70.4	71.5	71.5	71.5	72.7
100°	106.7	107.9	107.9	111.4	110.2	112.6	112.6	112.6	112.6	113.7
102.5°	150.1	152.4	153.6	157.1	157.1	157.1	159.5	158.3	159.5	159.5
105°	197.0	199.3	200.5	204.0	206.4	206.4	208.7	207.6	208.7	209.9
107.5°	243.9	247.4	249.8	253.3	255.6	256.8	256.8	258.0	259.2	260.3
110°	292.0	295.5	301.4	304.9	306.1	308.4	309.6	310.7	311.9	314.3



TEST NUMBER: P395569

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	342.4	345.9	350.6	355.3	354.1	357.7	360.0	361.2	362.3	361.2
115°	388.1	392.8	397.5	402.2	402.2	404.6	409.3	410.4	410.4	412.8
117.5°	431.5	437.4	442.1	446.8	447.9	450.3	453.8	457.3	457.3	459.7
120°	473.7	480.8	485.5	490.2	492.5	493.7	497.2	501.9	501.9	501.9
122.5°	513.6	519.5	525.3	530.0	532.4	534.7	537.1	542.9	542.9	545.3
125°	551.1	558.2	564.0	568.7	571.1	573.4	578.1	581.6	582.8	582.8
127.5°	586.3	593.4	599.2	605.1	606.3	608.6	613.3	618.0	619.2	620.3
130°	619.2	626.2	632.1	637.9	640.3	641.4	647.3	650.8	653.2	654.3
132.5°	648.5	655.5	661.4	667.2	669.6	671.9	675.4	681.3	682.5	682.5
135°	675.4	682.5	688.3	695.4	696.5	698.9	703.6	707.1	709.4	710.6
137.5°	700.1	707.1	714.1	720.0	722.3	723.5	728.2	732.9	735.2	736.4
140°	722.3	729.4	736.4	741.1	742.3	745.8	749.3	754.0	756.4	757.5
142.5°	743.5	749.3	755.2	761.0	762.2	764.6	768.1	772.8	775.1	776.3
145°	762.2	768.1	772.8	777.5	778.6	781.0	784.5	788.0	790.4	791.5
147.5°	779.8	784.5	789.2	792.7	793.9	796.2	798.6	800.9	803.3	804.4
150°	795.0	797.4	802.1	804.4	805.6	807.9	810.3	812.6	815.0	816.2
152.5°	806.8	810.3	812.6	816.2	817.3	818.5	820.8	823.2	825.5	825.5
155°	816.2	819.7	822.0	825.5	826.7	827.9	830.2	831.4	833.7	833.7
157.5°	823.2	826.7	829.1	831.4	832.6	833.7	834.9	837.3	839.6	839.6
160°	831.4	832.6	833.7	836.1	836.1	837.3	838.4	839.6	842.0	842.0
162.5°	838.4	839.6	837.3	838.4	837.3	838.4	839.6	840.8	842.0	842.0
165°	840.8	843.1	842.0	843.1	843.1	843.1	843.1	844.3	844.3	844.3
167.5°	840.8	843.1	842.0	842.0	843.1	843.1	844.3	845.5	845.5	845.5
170°	840.8	842.0	840.8	839.6	840.8	840.8	840.8	842.0	842.0	842.0
172.5°	839.6	840.8	838.4	837.3	837.3	837.3	836.1	836.1	834.9	834.9
175°	838.4	838.4	836.1	834.9	834.9	834.9	832.6	831.4	830.2	829.1
177.5°	837.3	837.3	833.7	832.6	832.6	831.4	831.4	829.1	829.1	827.9
180°	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9	834.9

(END OF REPORT)