

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: P395575

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395575
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 (6500K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4760.2 lumens
Efficiency: N/A
Efficacy: 128.3 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

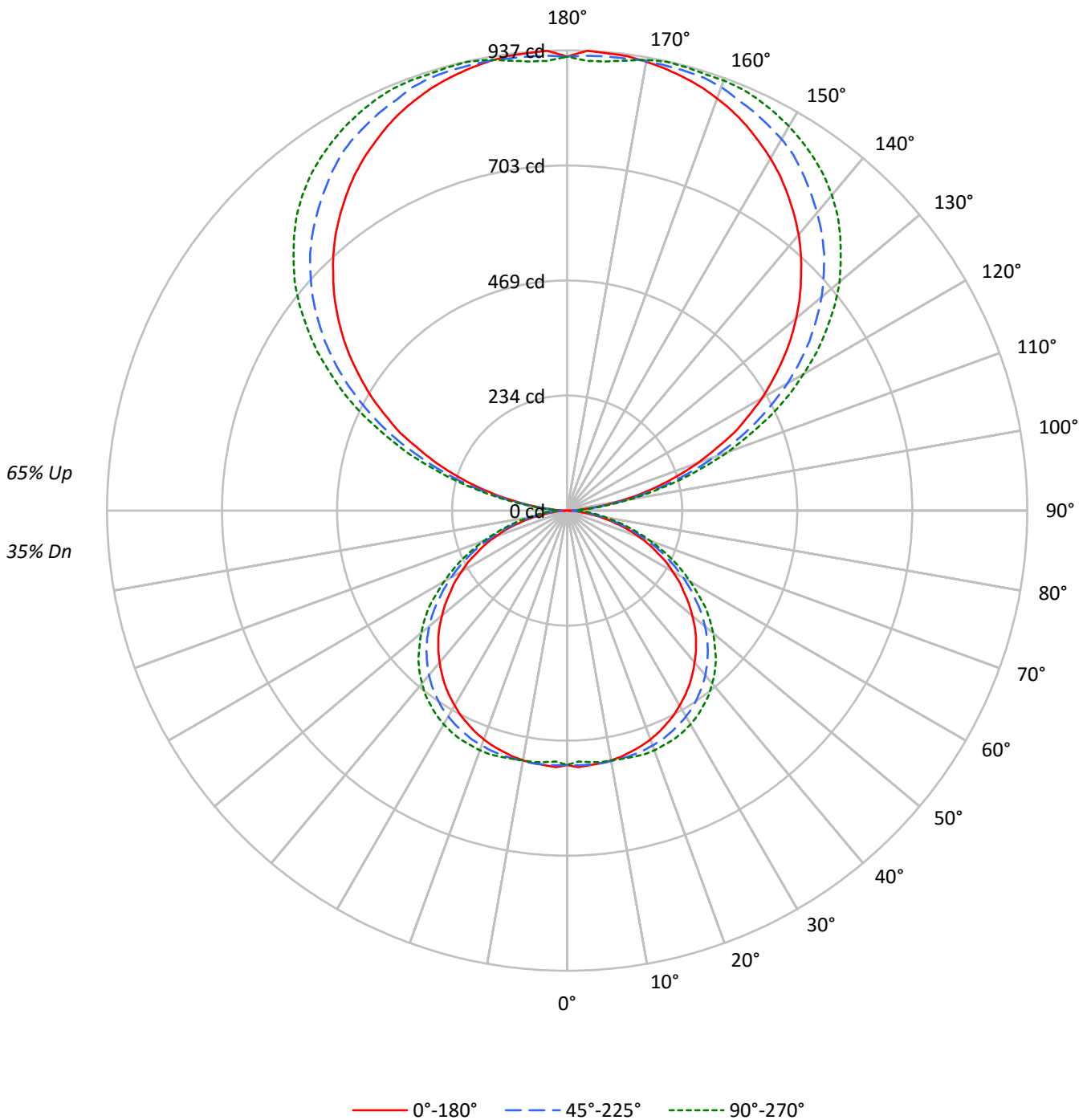
Input Watts (W): 37.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2847	2847	2847
5°	2861	2800	2756
10°	2862	2761	2723
15°	2856	2737	2712
20°	2856	2714	2708
25°	2848	2690	2698
30°	2838	2664	2674
35°	2825	2622	2634
40°	2797	2567	2576
45°	2768	2487	2498
50°	2704	2377	2375
55°	2627	2227	2233
60°	2538	2052	2018
65°	2413	1839	1792
70°	2242	1568	1513
75°	1950	1245	1204
80°	1522	885	882
85°	827	508	578



TEST NUMBER: P395575

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.0
10°-20°	145.2	3.1
20°-30°	229.0	4.8
30°-40°	287.9	6.0
40°-50°	309.5	6.5
50°-60°	284.7	6.0
60°-70°	218.1	4.6
70°-80°	124.2	2.6
80°-90°	38.8	0.8
90°-100°	51.9	1.1
100°-110°	225.6	4.7
110°-120°	413.0	8.7
120°-130°	532.4	11.2
130°-140°	566.5	11.9
140°-150°	521.2	10.9
150°-160°	412.9	8.7
160°-170°	261.4	5.5
170°-180°	88.5	1.9
0°-30°	423.7	8.9
0°-40°	711.5	14.9
0°-60°	1305.8	27.4
0°-90°	1686.9	35.4
90°-120°	690.5	14.5
90°-150°	2310.5	48.5
90°-180°	3073.0	64.6
0°-180°	4760.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	520	515	519	517	514	50
15°	508	505	515	519	519	143
25°	479	480	498	510	514	221
35°	434	439	463	479	484	271
45°	371	380	405	422	428	286
55°	291	302	321	338	344	261
65°	202	209	222	232	236	201
75°	106	109	117	123	127	113
85°	20	25	32	42	44	25
90°	1	4	12	17	20	3
95°	35	34	38	43	44	44
105°	191	200	216	228	232	203
115°	375	392	423	445	457	368
125°	536	560	602	632	645	479
135°	674	696	740	771	787	520
145°	784	801	837	862	876	491
155°	864	875	897	915	923	399
165°	914	914	927	933	935	258
175°	935	928	928	924	918	89
180°	924	924	924	924	924	



TEST NUMBER: P395575

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	523.1	521.8	520.5	517.9	517.9	516.6	516.6	516.6	516.6	517.9	519.2
5°	520.5	520.5	519.2	516.6	516.6	515.3	515.3	516.6	515.3	516.6	519.2
7.5°	519.2	519.2	517.9	515.3	515.3	515.3	515.3	515.3	515.3	516.6	519.2
10°	516.6	516.6	514.0	512.7	512.7	512.7	512.7	514.0	514.0	515.3	517.9
12.5°	512.7	511.5	510.2	508.9	508.9	508.9	510.2	511.5	511.5	514.0	516.6
15°	507.6	507.6	506.3	505.0	505.0	505.0	506.3	507.6	508.9	511.5	515.3
17.5°	502.4	502.4	501.1	501.1	501.1	501.1	502.4	503.7	506.3	508.9	512.7
20°	495.9	495.9	494.6	494.6	494.6	495.9	495.9	498.5	501.1	505.0	508.9
22.5°	488.1	488.1	488.1	486.8	488.1	489.4	490.7	493.3	495.9	499.8	505.0
25°	479.0	479.0	479.0	479.0	480.3	480.3	482.9	485.5	488.1	493.3	498.5
27.5°	469.9	469.9	469.9	468.6	471.2	472.5	473.8	477.7	480.3	486.8	492.0
30°	458.2	458.2	458.2	459.5	460.8	462.1	464.7	468.6	471.2	477.7	484.2
32.5°	446.5	446.5	446.5	446.5	450.4	451.7	453.0	456.9	462.1	468.6	475.1
35°	433.6	433.6	433.6	434.9	437.5	438.8	441.4	445.2	450.4	456.9	463.4
37.5°	419.3	420.6	420.6	421.9	424.5	427.1	429.7	433.6	438.8	445.2	451.7
40°	403.7	405.0	405.0	406.3	408.9	411.5	414.1	419.3	424.5	431.0	437.5
42.5°	388.1	389.4	389.4	392.0	394.6	397.2	399.8	405.0	410.2	416.7	421.9
45°	371.3	372.6	372.6	375.2	379.0	380.3	384.2	389.4	394.6	399.8	405.0
47.5°	353.1	354.4	354.4	357.0	360.9	363.5	366.1	371.3	375.2	381.6	386.8
50°	332.3	333.6	334.9	337.5	342.7	345.3	347.9	351.8	357.0	360.9	366.1
52.5°	312.8	312.8	314.1	316.7	320.6	323.2	324.5	328.4	334.9	340.1	345.3
55°	290.8	292.1	293.4	296.0	299.9	302.5	303.8	307.6	311.5	315.4	320.6
57.5°	271.3	271.3	272.6	275.2	279.1	280.4	281.7	284.3	289.5	293.4	297.3
60°	247.9	249.2	250.5	253.1	255.7	258.3	258.3	262.2	266.1	270.0	272.6
62.5°	227.2	227.2	228.5	231.1	232.4	235.0	235.0	238.9	241.4	245.3	247.9
65°	202.5	203.8	205.1	206.4	209.0	209.0	210.3	212.9	215.5	218.1	222.0
67.5°	180.4	180.4	181.7	183.0	184.3	184.3	185.6	188.2	190.8	193.4	196.0
70°	155.8	157.1	157.1	157.1	158.4	159.7	161.0	162.3	164.9	166.2	168.8
72.5°	131.1	131.1	132.4	132.4	133.7	135.0	136.3	137.6	138.9	141.5	142.8
75°	106.4	106.4	107.7	107.7	109.0	109.0	109.0	111.6	112.9	115.5	116.8
77.5°	81.8	83.1	83.1	83.1	84.4	85.7	85.7	87.0	89.6	90.9	92.2
80°	59.7	59.7	59.7	59.7	61.0	62.3	63.6	63.6	66.2	68.8	70.1
82.5°	37.6	37.6	38.9	40.2	40.2	41.5	42.8	44.1	46.7	48.0	49.3
85°	19.5	19.5	20.8	22.1	23.4	24.7	24.7	26.0	28.6	31.2	32.5
87.5°	6.5	7.8	7.8	9.1	10.4	11.7	13.0	14.3	16.9	19.5	20.8
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	16.9
95°	35.0	33.8	33.8	33.8	33.8	33.8	33.8	35.0	36.3	36.3	37.6
97.5°	67.5	67.5	66.2	66.2	67.5	67.5	67.5	68.8	71.4	70.1	72.7
100°	105.1	105.1	103.8	105.1	106.4	107.7	110.3	110.3	112.9	112.9	116.8
102.5°	148.0	148.0	146.7	149.3	150.6	153.2	153.2	155.8	159.7	159.7	164.9
105°	190.8	192.1	192.1	194.7	197.3	199.9	199.9	203.8	209.0	209.0	215.5
107.5°	237.6	238.9	238.9	241.4	244.0	246.6	247.9	253.1	258.3	259.6	267.4
110°	283.0	284.3	285.6	288.2	290.8	294.7	297.3	302.5	308.9	311.5	318.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	325.8	331.0	332.3	336.2	340.1	344.0	346.6	353.1	360.9	364.8	372.6
115°	375.2	377.7	379.0	382.9	388.1	392.0	394.6	401.1	408.9	414.1	423.2
117.5°	415.4	421.9	423.2	427.1	432.3	436.2	438.8	446.5	455.6	462.1	471.2
120°	458.2	463.4	468.6	471.2	475.1	480.3	482.9	490.7	501.1	507.6	517.9
122.5°	497.2	502.4	507.6	511.5	516.6	519.2	523.1	532.2	542.6	550.4	560.8
125°	536.1	542.6	546.5	550.4	556.9	559.5	563.4	572.5	582.8	591.9	602.3
127.5°	573.8	577.7	584.1	586.7	593.2	595.8	599.7	610.1	620.5	629.6	640.0
130°	608.8	614.0	619.2	620.5	628.3	632.2	636.1	645.2	656.8	665.9	676.3
132.5°	642.6	645.2	651.6	655.5	662.0	665.9	669.8	677.6	689.3	698.4	708.8
135°	673.7	676.3	684.1	688.0	691.9	695.8	701.0	708.8	720.4	729.5	739.9
137.5°	704.9	707.5	715.3	719.1	721.7	725.6	729.5	737.3	749.0	758.1	767.2
140°	733.4	736.0	741.2	746.4	749.0	751.6	755.5	763.3	773.7	782.8	791.8
142.5°	759.4	762.0	767.2	772.4	776.3	776.3	780.2	786.6	798.3	807.4	815.2
145°	784.1	785.3	790.5	795.7	800.9	800.9	802.2	808.7	819.1	829.5	837.3
147.5°	807.4	808.7	812.6	817.8	821.7	823.0	825.6	828.2	838.6	849.0	858.0
150°	828.2	829.5	832.1	837.3	839.9	842.5	845.1	846.4	854.1	863.2	873.6
152.5°	846.4	847.7	850.3	854.1	856.7	859.3	861.9	865.8	869.7	878.8	885.3
155°	864.5	865.8	867.1	871.0	873.6	874.9	876.2	881.4	885.3	890.5	897.0
157.5°	880.1	880.1	881.4	884.0	886.6	886.6	887.9	893.1	897.0	902.2	906.1
160°	893.1	893.1	894.4	897.0	897.0	898.3	899.6	903.5	906.1	912.6	917.8
162.5°	904.8	903.5	904.8	906.1	906.1	906.1	907.4	910.0	913.9	919.1	924.2
165°	913.9	913.9	913.9	915.2	915.2	913.9	913.9	916.5	919.1	922.9	926.8
167.5°	921.7	921.7	920.4	921.7	920.4	920.4	919.1	920.4	921.7	925.5	928.1
170°	928.1	926.8	926.8	926.8	925.5	924.2	924.2	924.2	924.2	926.8	929.4
172.5°	933.3	932.0	930.7	930.7	928.1	926.8	926.8	925.5	925.5	926.8	928.1
175°	934.6	933.3	932.0	932.0	929.4	928.1	926.8	926.8	925.5	926.8	928.1
177.5°	937.2	935.9	933.3	933.3	930.7	928.1	928.1	926.8	925.5	926.8	926.8
180°	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	520.5	520.5	519.2	517.9	517.9	516.6	515.3	514.0	512.7	511.5
5°	520.5	519.2	517.9	517.9	516.6	516.6	516.6	515.3	514.0	514.0
7.5°	520.5	520.5	519.2	517.9	517.9	517.9	517.9	517.9	516.6	516.6
10°	520.5	519.2	519.2	519.2	517.9	519.2	519.2	517.9	517.9	516.6
12.5°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	517.9
15°	516.6	517.9	517.9	519.2	519.2	519.2	520.5	520.5	519.2	519.2
17.5°	515.3	516.6	517.9	519.2	519.2	519.2	520.5	520.5	520.5	520.5
20°	512.7	514.0	515.3	516.6	516.6	517.9	517.9	519.2	519.2	519.2
22.5°	507.6	508.9	511.5	512.7	514.0	515.3	516.6	516.6	516.6	516.6
25°	502.4	505.0	506.3	508.9	510.2	511.5	512.7	512.7	512.7	514.0
27.5°	495.9	498.5	502.4	503.7	505.0	506.3	507.6	508.9	508.9	508.9
30°	488.1	492.0	494.6	497.2	498.5	499.8	501.1	501.1	502.4	502.4
32.5°	479.0	482.9	485.5	488.1	489.4	490.7	493.3	493.3	494.6	494.6
35°	467.3	471.2	475.1	477.7	479.0	480.3	482.9	484.2	484.2	484.2
37.5°	455.6	459.5	463.4	467.3	468.6	469.9	472.5	472.5	473.8	473.8
40°	441.4	445.2	449.1	453.0	453.0	455.6	456.9	458.2	459.5	459.5
42.5°	427.1	431.0	433.6	437.5	438.8	440.1	441.4	443.9	443.9	445.2
45°	410.2	414.1	416.7	420.6	421.9	423.2	425.8	427.1	428.4	428.4
47.5°	392.0	394.6	397.2	401.1	403.7	405.0	406.3	407.6	408.9	407.6
50°	371.3	373.9	377.7	381.6	382.9	384.2	386.8	386.8	388.1	388.1
52.5°	349.2	353.1	355.7	359.6	360.9	362.2	364.8	364.8	366.1	366.1
55°	324.5	327.1	329.7	336.2	337.5	338.8	341.4	341.4	342.7	344.0
57.5°	301.2	302.5	306.4	308.9	311.5	311.5	312.8	314.1	315.4	315.4
60°	276.5	277.8	280.4	284.3	284.3	285.6	288.2	288.2	289.5	289.5
62.5°	250.5	253.1	255.7	259.6	258.3	259.6	262.2	262.2	263.5	263.5
65°	224.6	225.9	228.5	231.1	232.4	232.4	233.7	235.0	236.3	236.3
67.5°	197.3	199.9	201.2	205.1	203.8	205.1	206.4	206.4	207.7	207.7
70°	171.3	172.6	175.2	176.5	176.5	177.8	179.1	179.1	179.1	180.4
72.5°	145.4	146.7	148.0	149.3	149.3	150.6	151.9	151.9	153.2	153.2
75°	118.1	120.7	122.0	124.6	123.3	124.6	127.2	127.2	127.2	127.2
77.5°	94.8	96.1	98.7	100.0	100.0	100.0	102.5	101.3	102.5	102.5
80°	71.4	72.7	75.3	76.6	76.6	77.9	79.2	79.2	79.2	80.5
82.5°	50.6	53.2	55.8	57.1	57.1	58.4	59.7	59.7	61.0	61.0
85°	35.0	37.6	40.2	40.2	41.5	42.8	44.1	44.1	44.1	44.1
87.5°	23.4	24.7	26.0	27.3	28.6	28.6	29.9	29.9	31.2	31.2
90°	13.0	14.3	15.6	16.9	16.9	18.2	18.2	19.5	19.5	19.5
92.5°	18.2	18.2	19.5	20.8	20.8	20.8	20.8	22.1	22.1	22.1
95°	38.9	40.2	40.2	42.8	42.8	42.8	44.1	44.1	44.1	44.1
97.5°	75.3	75.3	75.3	77.9	77.9	77.9	79.2	79.2	79.2	80.5
100°	118.1	119.4	119.4	123.3	122.0	124.6	124.6	124.6	124.6	125.9
102.5°	166.2	168.8	170.1	173.9	173.9	173.9	176.5	175.2	176.5	176.5
105°	218.1	220.7	222.0	225.9	228.5	228.5	231.1	229.8	231.1	232.4
107.5°	270.0	273.9	276.5	280.4	283.0	284.3	284.3	285.6	286.9	288.2
110°	323.2	327.1	333.6	337.5	338.8	341.4	342.7	344.0	345.3	347.9



TEST NUMBER: P395575

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	379.0	382.9	388.1	393.3	392.0	395.9	398.5	399.8	401.1	399.8
115°	429.7	434.9	440.1	445.2	445.2	447.8	453.0	454.3	454.3	456.9
117.5°	477.7	484.2	489.4	494.6	495.9	498.5	502.4	506.3	506.3	508.9
120°	524.4	532.2	537.4	542.6	545.2	546.5	550.4	555.6	555.6	555.6
122.5°	568.6	575.1	581.5	586.7	589.3	591.9	594.5	601.0	601.0	603.6
125°	610.1	617.9	624.4	629.6	632.2	634.8	640.0	643.9	645.2	645.2
127.5°	649.0	656.8	663.3	669.8	671.1	673.7	678.9	684.1	685.4	686.7
130°	685.4	693.2	699.7	706.2	708.8	710.1	716.6	720.4	723.0	724.3
132.5°	717.8	725.6	732.1	738.6	741.2	743.8	747.7	754.2	755.5	755.5
135°	747.7	755.5	762.0	769.8	771.1	773.7	778.9	782.8	785.3	786.6
137.5°	775.0	782.8	790.5	797.0	799.6	800.9	806.1	811.3	813.9	815.2
140°	799.6	807.4	815.2	820.4	821.7	825.6	829.5	834.7	837.3	838.6
142.5°	823.0	829.5	836.0	842.5	843.8	846.4	850.3	855.4	858.0	859.3
145°	843.8	850.3	855.4	860.6	861.9	864.5	868.4	872.3	874.9	876.2
147.5°	863.2	868.4	873.6	877.5	878.8	881.4	884.0	886.6	889.2	890.5
150°	880.1	882.7	887.9	890.5	891.8	894.4	897.0	899.6	902.2	903.5
152.5°	893.1	897.0	899.6	903.5	904.8	906.1	908.7	911.3	913.9	913.9
155°	903.5	907.4	910.0	913.9	915.2	916.5	919.1	920.4	922.9	922.9
157.5°	911.3	915.2	917.8	920.4	921.7	922.9	924.2	926.8	929.4	929.4
160°	920.4	921.7	922.9	925.5	925.5	926.8	928.1	929.4	932.0	932.0
162.5°	928.1	929.4	926.8	928.1	926.8	928.1	929.4	930.7	932.0	932.0
165°	930.7	933.3	932.0	933.3	933.3	933.3	933.3	934.6	934.6	934.6
167.5°	930.7	933.3	932.0	932.0	933.3	933.3	934.6	935.9	935.9	935.9
170°	930.7	932.0	930.7	929.4	930.7	930.7	930.7	932.0	932.0	932.0
172.5°	929.4	930.7	928.1	926.8	926.8	926.8	925.5	925.5	924.2	924.2
175°	928.1	928.1	925.5	924.2	924.2	924.2	921.7	920.4	919.1	917.8
177.5°	926.8	926.8	922.9	921.7	921.7	920.4	920.4	917.8	917.8	916.5
180°	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2	924.2

(END OF REPORT)