

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: P395573

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395573
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 (5000K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4691.9 lumens
Efficiency: N/A
Efficacy: 129.3 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

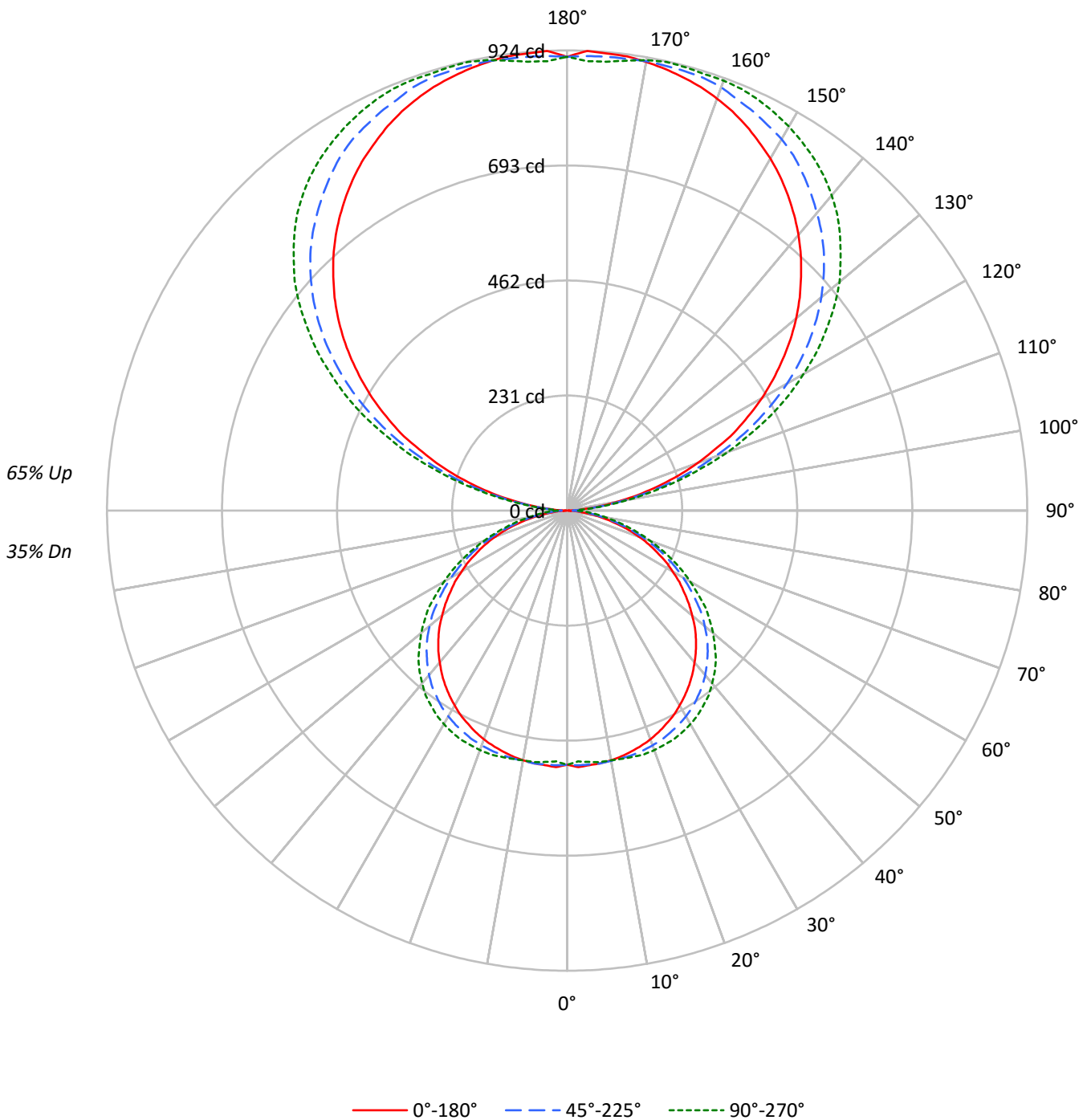
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2806	2806	2806
5°	2821	2760	2716
10°	2821	2722	2684
15°	2815	2698	2674
20°	2815	2675	2670
25°	2807	2651	2660
30°	2798	2626	2636
35°	2784	2584	2596
40°	2757	2530	2539
45°	2728	2451	2461
50°	2665	2343	2341
55°	2589	2195	2202
60°	2502	2023	1988
65°	2379	1813	1766
70°	2209	1545	1491
75°	1922	1228	1187
80°	1502	872	868
85°	815	500	570



TEST NUMBER: P395573

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.0
10°-20°	143.2	3.1
20°-30°	225.8	4.8
30°-40°	283.7	6.0
40°-50°	305.1	6.5
50°-60°	280.6	6.0
60°-70°	215.0	4.6
70°-80°	122.4	2.6
80°-90°	38.2	0.8
90°-100°	51.1	1.1
100°-110°	222.4	4.7
110°-120°	407.1	8.7
120°-130°	524.7	11.2
130°-140°	558.3	11.9
140°-150°	513.7	10.9
150°-160°	407.0	8.7
160°-170°	257.7	5.5
170°-180°	87.2	1.9
0°-30°	417.6	8.9
0°-40°	701.3	14.9
0°-60°	1287.1	27.4
0°-90°	1662.7	35.4
90°-120°	680.6	14.5
90°-150°	2277.3	48.5
90°-180°	3029.0	64.6
0°-180°	4691.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	513	508	512	509	507	49
15°	500	498	508	512	512	141
25°	472	473	491	503	507	218
35°	427	432	457	472	477	267
45°	366	375	399	416	422	282
55°	287	298	316	333	339	257
65°	200	206	219	229	233	198
75°	105	108	115	122	125	111
85°	19	24	32	41	44	24
90°	1	4	12	17	19	3
95°	34	33	37	42	44	43
105°	188	197	212	225	229	200
115°	370	386	417	439	450	363
125°	528	551	594	623	636	472
135°	664	686	729	760	775	512
145°	773	789	825	850	864	484
155°	852	862	884	902	910	393
165°	901	901	914	920	921	255
175°	921	915	915	911	905	88
180°	911	911	911	911	911	



TEST NUMBER: P395573

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	515.6	514.3	513.1	510.5	510.5	509.2	509.2	509.2	509.2	510.5	511.8
5°	513.1	513.1	511.8	509.2	509.2	507.9	507.9	509.2	507.9	509.2	511.8
7.5°	511.8	511.8	510.5	507.9	507.9	507.9	507.9	507.9	507.9	509.2	511.8
10°	509.2	509.2	506.7	505.4	505.4	505.4	505.4	506.7	506.7	507.9	510.5
12.5°	505.4	504.1	502.8	501.6	501.6	501.6	502.8	504.1	504.1	506.7	509.2
15°	500.3	500.3	499.0	497.7	497.7	497.7	499.0	500.3	501.6	504.1	507.9
17.5°	495.2	495.2	493.9	493.9	493.9	493.9	495.2	496.4	499.0	501.6	505.4
20°	488.8	488.8	487.5	487.5	487.5	488.8	488.8	491.3	493.9	497.7	501.6
22.5°	481.1	481.1	481.1	479.8	481.1	482.4	483.6	486.2	488.8	492.6	497.7
25°	472.1	472.1	472.1	472.1	473.4	473.4	476.0	478.5	481.1	486.2	491.3
27.5°	463.2	463.2	463.2	461.9	464.4	465.7	467.0	470.8	473.4	479.8	484.9
30°	451.7	451.7	451.7	452.9	454.2	455.5	458.0	461.9	464.4	470.8	477.2
32.5°	440.1	440.1	440.1	440.1	444.0	445.3	446.5	450.4	455.5	461.9	468.3
35°	427.3	427.3	427.3	428.6	431.2	432.5	435.0	438.9	444.0	450.4	456.8
37.5°	413.3	414.5	414.5	415.8	418.4	420.9	423.5	427.3	432.5	438.9	445.3
40°	397.9	399.2	399.2	400.5	403.0	405.6	408.1	413.3	418.4	424.8	431.2
42.5°	382.6	383.8	383.8	386.4	389.0	391.5	394.1	399.2	404.3	410.7	415.8
45°	365.9	367.2	367.2	369.8	373.6	374.9	378.7	383.8	389.0	394.1	399.2
47.5°	348.0	349.3	349.3	351.9	355.7	358.3	360.8	365.9	369.8	376.2	381.3
50°	327.5	328.8	330.1	332.7	337.8	340.3	342.9	346.7	351.9	355.7	360.8
52.5°	308.4	308.4	309.6	312.2	316.0	318.6	319.9	323.7	330.1	335.2	340.3
55°	286.6	287.9	289.2	291.7	295.6	298.1	299.4	303.2	307.1	310.9	316.0
57.5°	267.4	267.4	268.7	271.2	275.1	276.4	277.6	280.2	285.3	289.2	293.0
60°	244.4	245.7	246.9	249.5	252.1	254.6	254.6	258.5	262.3	266.1	268.7
62.5°	223.9	223.9	225.2	227.7	229.0	231.6	231.6	235.4	238.0	241.8	244.4
65°	199.6	200.9	202.2	203.4	206.0	206.0	207.3	209.8	212.4	215.0	218.8
67.5°	177.8	177.8	179.1	180.4	181.7	181.7	183.0	185.5	188.1	190.6	193.2
70°	153.5	154.8	154.8	154.8	156.1	157.4	158.7	159.9	162.5	163.8	166.3
72.5°	129.2	129.2	130.5	130.5	131.8	133.1	134.3	135.6	136.9	139.5	140.7
75°	104.9	104.9	106.2	106.2	107.5	107.5	107.5	110.0	111.3	113.9	115.2
77.5°	80.6	81.9	81.9	81.9	83.2	84.4	84.4	85.7	88.3	89.6	90.8
80°	58.9	58.9	58.9	58.9	60.1	61.4	62.7	62.7	65.3	67.8	69.1
82.5°	37.1	37.1	38.4	39.7	39.7	40.9	42.2	43.5	46.1	47.3	48.6
85°	19.2	19.2	20.5	21.8	23.0	24.3	24.3	25.6	28.1	30.7	32.0
87.5°	6.4	7.7	7.7	9.0	10.2	11.5	12.8	14.1	16.6	19.2	20.5
90°	1.3	1.3	1.3	2.6	3.8	3.8	5.1	6.4	7.7	9.0	11.5
92.5°	11.5	11.5	10.2	11.5	11.5	11.5	11.5	12.8	14.1	14.1	16.6
95°	34.5	33.3	33.3	33.3	33.3	33.3	33.3	34.5	35.8	35.8	37.1
97.5°	66.5	66.5	65.3	65.3	66.5	66.5	66.5	67.8	70.4	69.1	71.7
100°	103.6	103.6	102.4	103.6	104.9	106.2	108.8	108.8	111.3	111.3	115.2
102.5°	145.9	145.9	144.6	147.1	148.4	151.0	151.0	153.5	157.4	157.4	162.5
105°	188.1	189.4	189.4	191.9	194.5	197.0	197.0	200.9	206.0	206.0	212.4
107.5°	234.1	235.4	235.4	238.0	240.5	243.1	244.4	249.5	254.6	255.9	263.6
110°	278.9	280.2	281.5	284.0	286.6	290.4	293.0	298.1	304.5	307.1	313.5



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CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	321.1	326.3	327.5	331.4	335.2	339.1	341.6	348.0	355.7	359.5	367.2
115°	369.8	372.3	373.6	377.4	382.6	386.4	389.0	395.4	403.0	408.1	417.1
117.5°	409.4	415.8	417.1	420.9	426.1	429.9	432.5	440.1	449.1	455.5	464.4
120°	451.7	456.8	461.9	464.4	468.3	473.4	476.0	483.6	493.9	500.3	510.5
122.5°	490.0	495.2	500.3	504.1	509.2	511.8	515.6	524.6	534.8	542.5	552.7
125°	528.4	534.8	538.7	542.5	548.9	551.4	555.3	564.2	574.5	583.4	593.7
127.5°	565.5	569.4	575.8	578.3	584.7	587.3	591.1	601.3	611.6	620.5	630.8
130°	600.1	605.2	610.3	611.6	619.3	623.1	626.9	635.9	647.4	656.4	666.6
132.5°	633.3	635.9	642.3	646.1	652.5	656.4	660.2	667.9	679.4	688.4	698.6
135°	664.0	666.6	674.3	678.1	682.0	685.8	690.9	698.6	710.1	719.1	729.3
137.5°	694.7	697.3	705.0	708.8	711.4	715.2	719.1	726.7	738.3	747.2	756.2
140°	722.9	725.5	730.6	735.7	738.3	740.8	744.6	752.3	762.6	771.5	780.5
142.5°	748.5	751.0	756.2	761.3	765.1	765.1	769.0	775.4	786.9	795.8	803.5
145°	772.8	774.1	779.2	784.3	789.4	789.4	790.7	797.1	807.3	817.6	825.3
147.5°	795.8	797.1	800.9	806.1	809.9	811.2	813.7	816.3	826.5	836.8	845.7
150°	816.3	817.6	820.1	825.3	827.8	830.4	832.9	834.2	841.9	850.8	861.1
152.5°	834.2	835.5	838.1	841.9	844.4	847.0	849.6	853.4	857.2	866.2	872.6
155°	852.1	853.4	854.7	858.5	861.1	862.4	863.6	868.8	872.6	877.7	884.1
157.5°	867.5	867.5	868.8	871.3	873.9	873.9	875.2	880.3	884.1	889.2	893.1
160°	880.3	880.3	881.6	884.1	884.1	885.4	886.7	890.5	893.1	899.5	904.6
162.5°	891.8	890.5	891.8	893.1	893.1	893.1	894.3	896.9	900.7	905.9	911.0
165°	900.7	900.7	900.7	902.0	902.0	900.7	900.7	903.3	905.9	909.7	913.5
167.5°	908.4	908.4	907.1	908.4	907.1	907.1	905.9	907.1	908.4	912.3	914.8
170°	914.8	913.5	913.5	913.5	912.3	911.0	911.0	911.0	911.0	913.5	916.1
172.5°	919.9	918.7	917.4	917.4	914.8	913.5	913.5	912.3	912.3	913.5	914.8
175°	921.2	919.9	918.7	918.7	916.1	914.8	913.5	913.5	912.3	913.5	914.8
177.5°	923.8	922.5	919.9	919.9	917.4	914.8	914.8	913.5	912.3	913.5	913.5
180°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	513.1	513.1	511.8	510.5	510.5	509.2	507.9	506.7	505.4	504.1
5°	513.1	511.8	510.5	510.5	509.2	509.2	509.2	507.9	506.7	506.7
7.5°	513.1	513.1	511.8	510.5	510.5	510.5	510.5	510.5	509.2	509.2
10°	513.1	511.8	511.8	511.8	510.5	511.8	511.8	510.5	510.5	509.2
12.5°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	510.5
15°	509.2	510.5	510.5	511.8	511.8	511.8	513.1	513.1	511.8	511.8
17.5°	507.9	509.2	510.5	511.8	511.8	511.8	513.1	513.1	513.1	513.1
20°	505.4	506.7	507.9	509.2	509.2	510.5	510.5	511.8	511.8	511.8
22.5°	500.3	501.6	504.1	505.4	506.7	507.9	509.2	509.2	509.2	509.2
25°	495.2	497.7	499.0	501.6	502.8	504.1	505.4	505.4	505.4	506.7
27.5°	488.8	491.3	495.2	496.4	497.7	499.0	500.3	501.6	501.6	501.6
30°	481.1	484.9	487.5	490.0	491.3	492.6	493.9	493.9	495.2	495.2
32.5°	472.1	476.0	478.5	481.1	482.4	483.6	486.2	486.2	487.5	487.5
35°	460.6	464.4	468.3	470.8	472.1	473.4	476.0	477.2	477.2	477.2
37.5°	449.1	452.9	456.8	460.6	461.9	463.2	465.7	465.7	467.0	467.0
40°	435.0	438.9	442.7	446.5	446.5	449.1	450.4	451.7	452.9	452.9
42.5°	420.9	424.8	427.3	431.2	432.5	433.7	435.0	437.6	437.6	438.9
45°	404.3	408.1	410.7	414.5	415.8	417.1	419.7	420.9	422.2	422.2
47.5°	386.4	389.0	391.5	395.4	397.9	399.2	400.5	401.8	403.0	401.8
50°	365.9	368.5	372.3	376.2	377.4	378.7	381.3	381.3	382.6	382.6
52.5°	344.2	348.0	350.6	354.4	355.7	357.0	359.5	359.5	360.8	360.8
55°	319.9	322.4	325.0	331.4	332.7	333.9	336.5	336.5	337.8	339.1
57.5°	296.8	298.1	302.0	304.5	307.1	307.1	308.4	309.6	310.9	310.9
60°	272.5	273.8	276.4	280.2	280.2	281.5	284.0	284.0	285.3	285.3
62.5°	246.9	249.5	252.1	255.9	254.6	255.9	258.5	258.5	259.7	259.7
65°	221.3	222.6	225.2	227.7	229.0	229.0	230.3	231.6	232.9	232.9
67.5°	194.5	197.0	198.3	202.2	200.9	202.2	203.4	203.4	204.7	204.7
70°	168.9	170.2	172.7	174.0	174.0	175.3	176.6	176.6	176.6	177.8
72.5°	143.3	144.6	145.9	147.1	147.1	148.4	149.7	149.7	151.0	151.0
75°	116.4	119.0	120.3	122.8	121.5	122.8	125.4	125.4	125.4	125.4
77.5°	93.4	94.7	97.2	98.5	98.5	98.5	101.1	99.8	101.1	101.1
80°	70.4	71.7	74.2	75.5	75.5	76.8	78.0	78.0	78.0	79.3
82.5°	49.9	52.5	55.0	56.3	56.3	57.6	58.9	58.9	60.1	60.1
85°	34.5	37.1	39.7	39.7	40.9	42.2	43.5	43.5	43.5	43.5
87.5°	23.0	24.3	25.6	26.9	28.1	28.1	29.4	29.4	30.7	30.7
90°	12.8	14.1	15.4	16.6	16.6	17.9	17.9	19.2	19.2	19.2
92.5°	17.9	17.9	19.2	20.5	20.5	20.5	20.5	21.8	21.8	21.8
95°	38.4	39.7	39.7	42.2	42.2	42.2	43.5	43.5	43.5	43.5
97.5°	74.2	74.2	74.2	76.8	76.8	76.8	78.0	78.0	78.0	79.3
100°	116.4	117.7	117.7	121.5	120.3	122.8	122.8	122.8	122.8	124.1
102.5°	163.8	166.3	167.6	171.4	171.4	171.4	174.0	172.7	174.0	174.0
105°	215.0	217.5	218.8	222.6	225.2	225.2	227.7	226.5	227.7	229.0
107.5°	266.1	270.0	272.5	276.4	278.9	280.2	280.2	281.5	282.8	284.0
110°	318.6	322.4	328.8	332.7	333.9	336.5	337.8	339.1	340.3	342.9



TEST NUMBER: P395573

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	373.6	377.4	382.6	387.7	386.4	390.2	392.8	394.1	395.4	394.1
115°	423.5	428.6	433.7	438.9	438.9	441.4	446.5	447.8	447.8	450.4
117.5°	470.8	477.2	482.4	487.5	488.8	491.3	495.2	499.0	499.0	501.6
120°	516.9	524.6	529.7	534.8	537.4	538.7	542.5	547.6	547.6	547.6
122.5°	560.4	566.8	573.2	578.3	580.9	583.4	586.0	592.4	592.4	595.0
125°	601.3	609.0	615.4	620.5	623.1	625.7	630.8	634.6	635.9	635.9
127.5°	639.7	647.4	653.8	660.2	661.5	664.0	669.2	674.3	675.6	676.8
130°	675.6	683.2	689.6	696.0	698.6	699.9	706.3	710.1	712.7	713.9
132.5°	707.5	715.2	721.6	728.0	730.6	733.1	737.0	743.4	744.6	744.6
135°	737.0	744.6	751.0	758.7	760.0	762.6	767.7	771.5	774.1	775.4
137.5°	763.8	771.5	779.2	785.6	788.2	789.4	794.5	799.7	802.2	803.5
140°	788.2	795.8	803.5	808.6	809.9	813.7	817.6	822.7	825.3	826.5
142.5°	811.2	817.6	824.0	830.4	831.7	834.2	838.1	843.2	845.7	847.0
145°	831.7	838.1	843.2	848.3	849.6	852.1	856.0	859.8	862.4	863.6
147.5°	850.8	856.0	861.1	864.9	866.2	868.8	871.3	873.9	876.4	877.7
150°	867.5	870.0	875.2	877.7	879.0	881.6	884.1	886.7	889.2	890.5
152.5°	880.3	884.1	886.7	890.5	891.8	893.1	895.6	898.2	900.7	900.7
155°	890.5	894.3	896.9	900.7	902.0	903.3	905.9	907.1	909.7	909.7
157.5°	898.2	902.0	904.6	907.1	908.4	909.7	911.0	913.5	916.1	916.1
160°	907.1	908.4	909.7	912.3	912.3	913.5	914.8	916.1	918.7	918.7
162.5°	914.8	916.1	913.5	914.8	913.5	914.8	916.1	917.4	918.7	918.7
165°	917.4	919.9	918.7	919.9	919.9	919.9	919.9	921.2	921.2	921.2
167.5°	917.4	919.9	918.7	918.7	919.9	919.9	921.2	922.5	922.5	922.5
170°	917.4	918.7	917.4	916.1	917.4	917.4	917.4	918.7	918.7	918.7
172.5°	916.1	917.4	914.8	913.5	913.5	913.5	912.3	912.3	911.0	911.0
175°	914.8	914.8	912.3	911.0	911.0	911.0	908.4	907.1	905.9	904.6
177.5°	913.5	913.5	909.7	908.4	908.4	907.1	907.1	904.6	904.6	903.3
180°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0

(END OF REPORT)