

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: P395570

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395570
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 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4450.4 lumens
Efficiency: N/A
Efficacy: 124.7 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

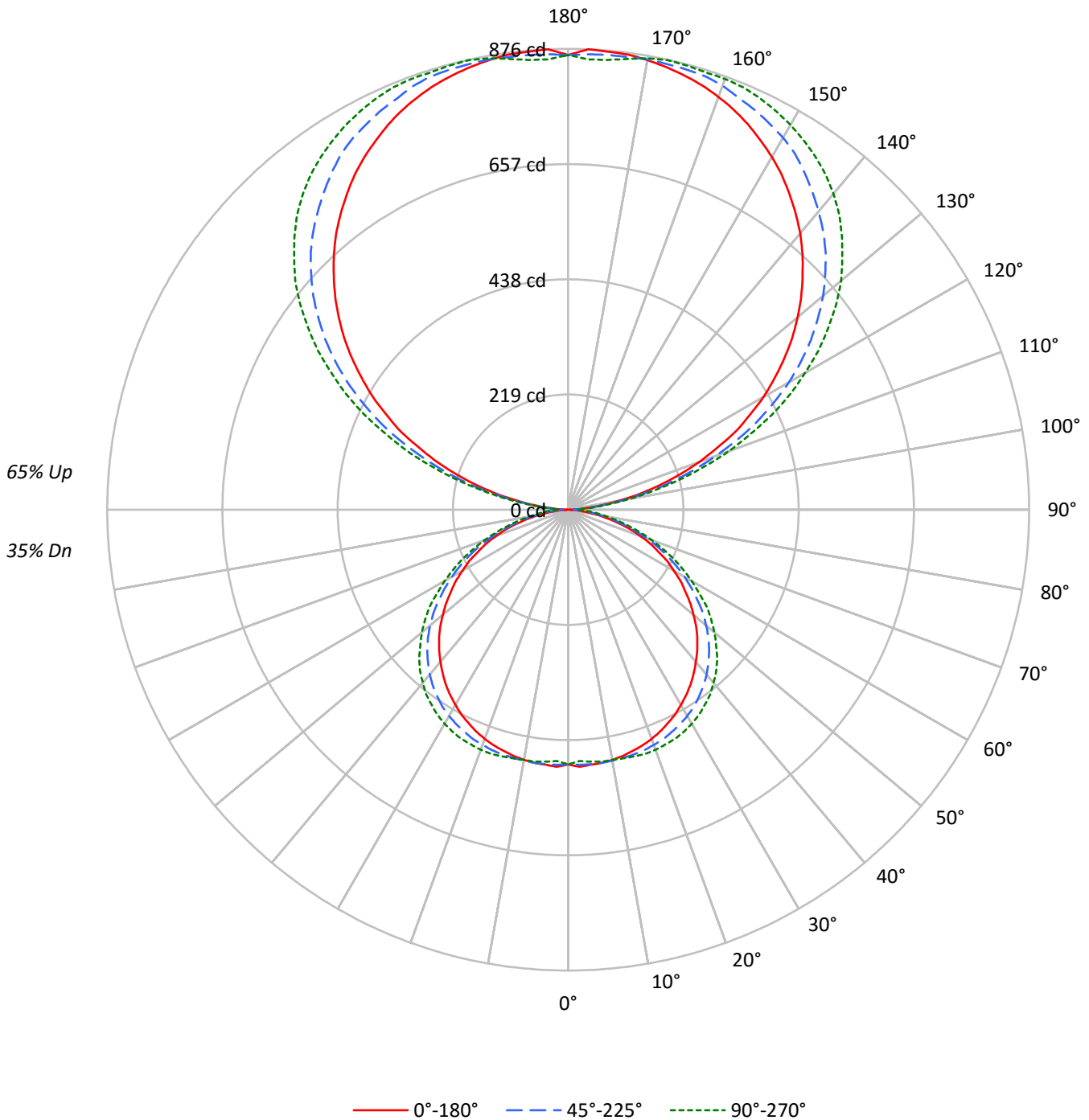
Input Watts (W): 35.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395570

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)

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°	2661	2661	2661
5°	2675	2618	2577
10°	2676	2581	2546
15°	2670	2559	2536
20°	2670	2537	2533
25°	2663	2514	2523
30°	2654	2491	2500
35°	2642	2451	2463
40°	2615	2399	2409
45°	2588	2326	2335
50°	2529	2222	2221
55°	2456	2082	2088
60°	2373	1919	1886
65°	2256	1719	1675
70°	2095	1466	1415
75°	1823	1164	1125
80°	1423	827	824
85°	772	473	541



TEST NUMBER: P395570

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	1.0
10°-20°	135.8	3.1
20°-30°	214.1	4.8
30°-40°	269.1	6.0
40°-50°	289.4	6.5
50°-60°	266.2	6.0
60°-70°	203.9	4.6
70°-80°	116.1	2.6
80°-90°	36.3	0.8
90°-100°	48.5	1.1
100°-110°	210.9	4.7
110°-120°	386.1	8.7
120°-130°	497.7	11.2
130°-140°	529.6	11.9
140°-150°	487.3	10.9
150°-160°	386.0	8.7
160°-170°	244.4	5.5
170°-180°	82.8	1.9
0°-30°	396.1	8.9
0°-40°	665.2	14.9
0°-60°	1220.8	27.4
0°-90°	1577.1	35.4
90°-120°	645.5	14.5
90°-150°	2160.1	48.5
90°-180°	2873.0	64.6
0°-180°	4450.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	487	482	486	483	481	46
15°	474	472	482	486	486	134
25°	448	449	466	477	481	207
35°	405	410	433	448	453	253
45°	347	356	379	394	400	267
55°	272	283	300	316	322	244
65°	189	195	208	217	221	188
75°	100	102	109	115	119	105
85°	18	23	30	39	41	23
90°	1	4	11	16	18	3
95°	33	32	35	40	41	41
105°	178	187	202	214	217	190
115°	351	366	396	416	427	344
125°	501	523	563	591	603	448
135°	630	650	692	721	736	486
145°	733	749	783	806	819	459
155°	808	818	839	856	863	373
165°	854	854	866	873	874	241
175°	874	868	868	864	858	83
180°	864	864	864	864	864	



TEST NUMBER: P395570

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2
2.5°	489.1	487.9	486.7	484.2	484.2	483.0	483.0	483.0	483.0	484.2	485.5
5°	486.7	486.7	485.5	483.0	483.0	481.8	481.8	483.0	481.8	483.0	485.5
7.5°	485.5	485.5	484.2	481.8	481.8	481.8	481.8	481.8	481.8	483.0	485.5
10°	483.0	483.0	480.6	479.4	479.4	479.4	479.4	480.6	480.6	481.8	484.2
12.5°	479.4	478.2	477.0	475.7	475.7	475.7	477.0	478.2	478.2	480.6	483.0
15°	474.5	474.5	473.3	472.1	472.1	472.1	473.3	474.5	475.7	478.2	481.8
17.5°	469.7	469.7	468.5	468.5	468.5	468.5	469.7	470.9	473.3	475.7	479.4
20°	463.6	463.6	462.4	462.4	462.4	463.6	463.6	466.0	468.5	472.1	475.7
22.5°	456.3	456.3	456.3	455.1	456.3	457.5	458.8	461.2	463.6	467.2	472.1
25°	447.8	447.8	447.8	447.8	449.0	449.0	451.5	453.9	456.3	461.2	466.0
27.5°	439.3	439.3	439.3	438.1	440.5	441.8	443.0	446.6	449.0	455.1	460.0
30°	428.4	428.4	428.4	429.6	430.8	432.1	434.5	438.1	440.5	446.6	452.7
32.5°	417.5	417.5	417.5	417.5	421.1	422.3	423.6	427.2	432.1	438.1	444.2
35°	405.4	405.4	405.4	406.6	409.0	410.2	412.6	416.3	421.1	427.2	433.3
37.5°	392.0	393.2	393.2	394.4	396.9	399.3	401.7	405.4	410.2	416.3	422.3
40°	377.4	378.7	378.7	379.9	382.3	384.7	387.1	392.0	396.9	402.9	409.0
42.5°	362.9	364.1	364.1	366.5	368.9	371.4	373.8	378.7	383.5	389.6	394.4
45°	347.1	348.3	348.3	350.7	354.4	355.6	359.2	364.1	368.9	373.8	378.7
47.5°	330.1	331.3	331.3	333.7	337.4	339.8	342.2	347.1	350.7	356.8	361.7
50°	310.7	311.9	313.1	315.5	320.4	322.8	325.3	328.9	333.7	337.4	342.2
52.5°	292.5	292.5	293.7	296.1	299.8	302.2	303.4	307.0	313.1	318.0	322.8
55°	271.9	273.1	274.3	276.7	280.3	282.8	284.0	287.6	291.3	294.9	299.8
57.5°	253.6	253.6	254.9	257.3	260.9	262.1	263.4	265.8	270.6	274.3	277.9
60°	231.8	233.0	234.2	236.7	239.1	241.5	241.5	245.2	248.8	252.4	254.9
62.5°	212.4	212.4	213.6	216.0	217.2	219.7	219.7	223.3	225.7	229.4	231.8
65°	189.3	190.5	191.8	193.0	195.4	195.4	196.6	199.0	201.5	203.9	207.5
67.5°	168.7	168.7	169.9	171.1	172.3	172.3	173.5	176.0	178.4	180.8	183.3
70°	145.6	146.8	146.8	146.8	148.1	149.3	150.5	151.7	154.1	155.3	157.8
72.5°	122.6	122.6	123.8	123.8	125.0	126.2	127.4	128.6	129.9	132.3	133.5
75°	99.5	99.5	100.7	100.7	101.9	101.9	101.9	104.4	105.6	108.0	109.2
77.5°	76.5	77.7	77.7	77.7	78.9	80.1	80.1	81.3	83.7	85.0	86.2
80°	55.8	55.8	55.8	55.8	57.0	58.3	59.5	59.5	61.9	64.3	65.5
82.5°	35.2	35.2	36.4	37.6	37.6	38.8	40.0	41.3	43.7	44.9	46.1
85°	18.2	18.2	19.4	20.6	21.8	23.1	23.1	24.3	26.7	29.1	30.3
87.5°	6.1	7.3	7.3	8.5	9.7	10.9	12.1	13.3	15.8	18.2	19.4
90°	1.2	1.2	1.2	2.4	3.6	3.6	4.9	6.1	7.3	8.5	10.9
92.5°	10.9	10.9	9.7	10.9	10.9	10.9	10.9	12.1	13.3	13.3	15.8
95°	32.8	31.6	31.6	31.6	31.6	31.6	31.6	32.8	34.0	34.0	35.2
97.5°	63.1	63.1	61.9	61.9	63.1	63.1	63.1	64.3	66.7	65.5	68.0
100°	98.3	98.3	97.1	98.3	99.5	100.7	103.2	103.2	105.6	105.6	109.2
102.5°	138.4	138.4	137.1	139.6	140.8	143.2	143.2	145.6	149.3	149.3	154.1
105°	178.4	179.6	179.6	182.0	184.5	186.9	186.9	190.5	195.4	195.4	201.5
107.5°	222.1	223.3	223.3	225.7	228.2	230.6	231.8	236.7	241.5	242.7	250.0
110°	264.6	265.8	267.0	269.4	271.9	275.5	277.9	282.8	288.8	291.3	297.3



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CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	304.6	309.5	310.7	314.3	318.0	321.6	324.0	330.1	337.4	341.0	348.3
115°	350.7	353.2	354.4	358.0	362.9	366.5	368.9	375.0	382.3	387.1	395.6
117.5°	388.4	394.4	395.6	399.3	404.1	407.8	410.2	417.5	426.0	432.1	440.5
120°	428.4	433.3	438.1	440.5	444.2	449.0	451.5	458.8	468.5	474.5	484.2
122.5°	464.8	469.7	474.5	478.2	483.0	485.5	489.1	497.6	507.3	514.6	524.3
125°	501.2	507.3	510.9	514.6	520.6	523.1	526.7	535.2	544.9	553.4	563.1
127.5°	536.4	540.1	546.1	548.6	554.6	557.1	560.7	570.4	580.1	588.6	598.3
130°	569.2	574.0	578.9	580.1	587.4	591.0	594.7	603.2	614.1	622.6	632.3
132.5°	600.7	603.2	609.2	612.9	619.0	622.6	626.2	633.5	644.4	652.9	662.6
135°	629.9	632.3	639.6	643.2	646.9	650.5	655.4	662.6	673.6	682.1	691.8
137.5°	659.0	661.4	668.7	672.4	674.8	678.4	682.1	689.3	700.3	708.8	717.3
140°	685.7	688.1	693.0	697.8	700.3	702.7	706.3	713.6	723.3	731.8	740.3
142.5°	710.0	712.4	717.3	722.1	725.8	725.8	729.4	735.5	746.4	754.9	762.2
145°	733.0	734.2	739.1	744.0	748.8	748.8	750.0	756.1	765.8	775.5	782.8
147.5°	754.9	756.1	759.7	764.6	768.2	769.4	771.9	774.3	784.0	793.7	802.2
150°	774.3	775.5	777.9	782.8	785.2	787.6	790.1	791.3	798.6	807.1	816.8
152.5°	791.3	792.5	794.9	798.6	801.0	803.4	805.8	809.5	813.1	821.6	827.7
155°	808.3	809.5	810.7	814.3	816.8	818.0	819.2	824.1	827.7	832.5	838.6
157.5°	822.8	822.8	824.1	826.5	828.9	828.9	830.1	835.0	838.6	843.5	847.1
160°	835.0	835.0	836.2	838.6	838.6	839.8	841.0	844.7	847.1	853.2	858.0
162.5°	845.9	844.7	845.9	847.1	847.1	847.1	848.3	850.8	854.4	859.2	864.1
165°	854.4	854.4	854.4	855.6	855.6	854.4	854.4	856.8	859.2	862.9	866.5
167.5°	861.7	861.7	860.5	861.7	860.5	860.5	859.2	860.5	861.7	865.3	867.7
170°	867.7	866.5	866.5	866.5	865.3	864.1	864.1	864.1	864.1	866.5	869.0
172.5°	872.6	871.4	870.2	870.2	867.7	866.5	866.5	865.3	865.3	866.5	867.7
175°	873.8	872.6	871.4	871.4	869.0	867.7	866.5	866.5	865.3	866.5	867.7
177.5°	876.2	875.0	872.6	872.6	870.2	867.7	867.7	866.5	865.3	866.5	866.5
180°	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1



TEST NUMBER: P395570

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2	484.2
2.5°	486.7	486.7	485.5	484.2	484.2	483.0	481.8	480.6	479.4	478.2
5°	486.7	485.5	484.2	484.2	483.0	483.0	483.0	481.8	480.6	480.6
7.5°	486.7	486.7	485.5	484.2	484.2	484.2	484.2	484.2	483.0	483.0
10°	486.7	485.5	485.5	485.5	484.2	485.5	485.5	484.2	484.2	483.0
12.5°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	484.2
15°	483.0	484.2	484.2	485.5	485.5	485.5	486.7	486.7	485.5	485.5
17.5°	481.8	483.0	484.2	485.5	485.5	485.5	486.7	486.7	486.7	486.7
20°	479.4	480.6	481.8	483.0	483.0	484.2	484.2	485.5	485.5	485.5
22.5°	474.5	475.7	478.2	479.4	480.6	481.8	483.0	483.0	483.0	483.0
25°	469.7	472.1	473.3	475.7	477.0	478.2	479.4	479.4	479.4	480.6
27.5°	463.6	466.0	469.7	470.9	472.1	473.3	474.5	475.7	475.7	475.7
30°	456.3	460.0	462.4	464.8	466.0	467.2	468.5	468.5	469.7	469.7
32.5°	447.8	451.5	453.9	456.3	457.5	458.8	461.2	461.2	462.4	462.4
35°	436.9	440.5	444.2	446.6	447.8	449.0	451.5	452.7	452.7	452.7
37.5°	426.0	429.6	433.3	436.9	438.1	439.3	441.8	441.8	443.0	443.0
40°	412.6	416.3	419.9	423.6	423.6	426.0	427.2	428.4	429.6	429.6
42.5°	399.3	402.9	405.4	409.0	410.2	411.4	412.6	415.1	415.1	416.3
45°	383.5	387.1	389.6	393.2	394.4	395.6	398.1	399.3	400.5	400.5
47.5°	366.5	368.9	371.4	375.0	377.4	378.7	379.9	381.1	382.3	381.1
50°	347.1	349.5	353.2	356.8	358.0	359.2	361.7	361.7	362.9	362.9
52.5°	326.5	330.1	332.5	336.2	337.4	338.6	341.0	341.0	342.2	342.2
55°	303.4	305.8	308.3	314.3	315.5	316.8	319.2	319.2	320.4	321.6
57.5°	281.6	282.8	286.4	288.8	291.3	291.3	292.5	293.7	294.9	294.9
60°	258.5	259.7	262.1	265.8	265.8	267.0	269.4	269.4	270.6	270.6
62.5°	234.2	236.7	239.1	242.7	241.5	242.7	245.2	245.2	246.4	246.4
65°	210.0	211.2	213.6	216.0	217.2	217.2	218.5	219.7	220.9	220.9
67.5°	184.5	186.9	188.1	191.8	190.5	191.8	193.0	193.0	194.2	194.2
70°	160.2	161.4	163.8	165.1	165.1	166.3	167.5	167.5	167.5	168.7
72.5°	135.9	137.1	138.4	139.6	139.6	140.8	142.0	142.0	143.2	143.2
75°	110.4	112.9	114.1	116.5	115.3	116.5	118.9	118.9	118.9	118.9
77.5°	88.6	89.8	92.2	93.4	93.4	93.4	95.9	94.7	95.9	95.9
80°	66.7	68.0	70.4	71.6	71.6	72.8	74.0	74.0	74.0	75.2
82.5°	47.3	49.8	52.2	53.4	53.4	54.6	55.8	55.8	57.0	57.0
85°	32.8	35.2	37.6	37.6	38.8	40.0	41.3	41.3	41.3	41.3
87.5°	21.8	23.1	24.3	25.5	26.7	26.7	27.9	27.9	29.1	29.1
90°	12.1	13.3	14.6	15.8	15.8	17.0	17.0	18.2	18.2	18.2
92.5°	17.0	17.0	18.2	19.4	19.4	19.4	19.4	20.6	20.6	20.6
95°	36.4	37.6	37.6	40.0	40.0	40.0	41.3	41.3	41.3	41.3
97.5°	70.4	70.4	70.4	72.8	72.8	72.8	74.0	74.0	74.0	75.2
100°	110.4	111.7	111.7	115.3	114.1	116.5	116.5	116.5	116.5	117.7
102.5°	155.3	157.8	159.0	162.6	162.6	162.6	165.1	163.8	165.1	165.1
105°	203.9	206.3	207.5	211.2	213.6	213.6	216.0	214.8	216.0	217.2
107.5°	252.4	256.1	258.5	262.1	264.6	265.8	265.8	267.0	268.2	269.4
110°	302.2	305.8	311.9	315.5	316.8	319.2	320.4	321.6	322.8	325.3



TEST NUMBER: P395570

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	354.4	358.0	362.9	367.7	366.5	370.2	372.6	373.8	375.0	373.8
115°	401.7	406.6	411.4	416.3	416.3	418.7	423.6	424.8	424.8	427.2
117.5°	446.6	452.7	457.5	462.4	463.6	466.0	469.7	473.3	473.3	475.7
120°	490.3	497.6	502.4	507.3	509.7	510.9	514.6	519.4	519.4	519.4
122.5°	531.6	537.6	543.7	548.6	551.0	553.4	555.8	561.9	561.9	564.3
125°	570.4	577.7	583.8	588.6	591.0	593.5	598.3	602.0	603.2	603.2
127.5°	606.8	614.1	620.2	626.2	627.4	629.9	634.7	639.6	640.8	642.0
130°	640.8	648.1	654.1	660.2	662.6	663.9	669.9	673.6	676.0	677.2
132.5°	671.1	678.4	684.5	690.6	693.0	695.4	699.1	705.1	706.3	706.3
135°	699.1	706.3	712.4	719.7	720.9	723.3	728.2	731.8	734.2	735.5
137.5°	724.5	731.8	739.1	745.2	747.6	748.8	753.7	758.5	760.9	762.2
140°	747.6	754.9	762.2	767.0	768.2	771.9	775.5	780.4	782.8	784.0
142.5°	769.4	775.5	781.6	787.6	788.9	791.3	794.9	799.8	802.2	803.4
145°	788.9	794.9	799.8	804.6	805.8	808.3	811.9	815.6	818.0	819.2
147.5°	807.1	811.9	816.8	820.4	821.6	824.1	826.5	828.9	831.3	832.5
150°	822.8	825.3	830.1	832.5	833.8	836.2	838.6	841.0	843.5	844.7
152.5°	835.0	838.6	841.0	844.7	845.9	847.1	849.5	852.0	854.4	854.4
155°	844.7	848.3	850.8	854.4	855.6	856.8	859.2	860.5	862.9	862.9
157.5°	852.0	855.6	858.0	860.5	861.7	862.9	864.1	866.5	869.0	869.0
160°	860.5	861.7	862.9	865.3	865.3	866.5	867.7	869.0	871.4	871.4
162.5°	867.7	869.0	866.5	867.7	866.5	867.7	869.0	870.2	871.4	871.4
165°	870.2	872.6	871.4	872.6	872.6	872.6	872.6	873.8	873.8	873.8
167.5°	870.2	872.6	871.4	871.4	872.6	872.6	873.8	875.0	875.0	875.0
170°	870.2	871.4	870.2	869.0	870.2	870.2	870.2	871.4	871.4	871.4
172.5°	869.0	870.2	867.7	866.5	866.5	866.5	865.3	865.3	864.1	864.1
175°	867.7	867.7	865.3	864.1	864.1	864.1	861.7	860.5	859.2	858.0
177.5°	866.5	866.5	862.9	861.7	861.7	860.5	860.5	858.0	858.0	856.8
180°	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1	864.1

(END OF REPORT)