

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: P395568

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395568
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 (2700K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4181.7 lumens
Efficiency: N/A
Efficacy: 117.8 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

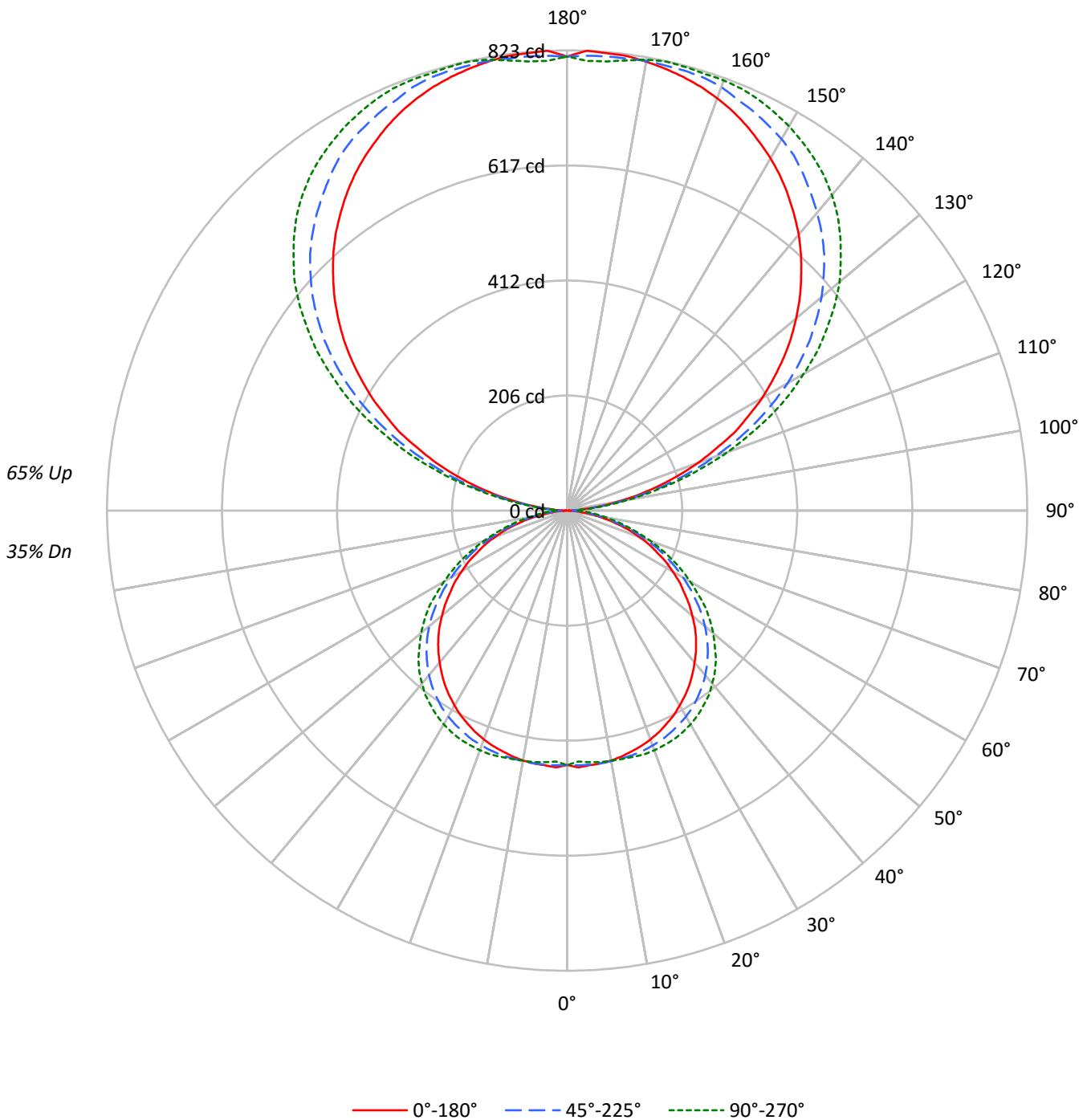
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2501	2501	2501
5°	2514	2459	2421
10°	2514	2426	2393
15°	2509	2405	2383
20°	2509	2384	2379
25°	2502	2363	2370
30°	2493	2340	2349
35°	2482	2303	2314
40°	2457	2255	2263
45°	2431	2185	2194
50°	2376	2088	2087
55°	2307	1957	1962
60°	2230	1803	1772
65°	2120	1615	1574
70°	1968	1376	1330
75°	1714	1094	1058
80°	1339	778	774
85°	726	445	509



TEST NUMBER: P395568

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.0
10°-20°	127.6	3.1
20°-30°	201.2	4.8
30°-40°	252.9	6.0
40°-50°	271.9	6.5
50°-60°	250.1	6.0
60°-70°	191.6	4.6
70°-80°	109.1	2.6
80°-90°	34.1	0.8
90°-100°	45.6	1.1
100°-110°	198.2	4.7
110°-120°	362.8	8.7
120°-130°	467.7	11.2
130°-140°	497.6	11.9
140°-150°	457.8	10.9
150°-160°	362.7	8.7
160°-170°	229.7	5.5
170°-180°	77.8	1.9
0°-30°	372.2	8.9
0°-40°	625.1	14.9
0°-60°	1147.1	27.4
0°-90°	1481.9	35.4
90°-120°	606.6	14.5
90°-150°	2029.7	48.5
90°-180°	2700.0	64.6
0°-180°	4181.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	457	453	456	454	452	44
15°	446	444	453	456	456	126
25°	421	422	438	448	452	194
35°	381	385	407	421	425	238
45°	326	334	356	371	376	251
55°	255	266	282	296	302	229
65°	178	184	195	204	208	176
75°	94	96	103	108	112	99
85°	17	22	28	36	39	22
90°	1	3	10	15	17	2
95°	31	30	33	38	39	38
105°	168	176	189	201	204	178
115°	330	344	372	391	401	323
125°	471	492	529	555	567	421
135°	592	611	650	677	691	457
145°	689	704	736	757	770	431
155°	760	769	788	804	811	350
165°	803	803	814	820	821	227
175°	821	815	815	812	806	78
180°	812	812	812	812	812	



TEST NUMBER: P395568

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	459.6	458.4	457.3	455.0	455.0	453.9	453.9	453.9	453.9	455.0	456.1
5°	457.3	457.3	456.1	453.9	453.9	452.7	452.7	453.9	452.7	453.9	456.1
7.5°	456.1	456.1	455.0	452.7	452.7	452.7	452.7	452.7	452.7	453.9	456.1
10°	453.9	453.9	451.6	450.4	450.4	450.4	450.4	451.6	451.6	452.7	455.0
12.5°	450.4	449.3	448.2	447.0	447.0	447.0	448.2	449.3	449.3	451.6	453.9
15°	445.9	445.9	444.7	443.6	443.6	443.6	444.7	445.9	447.0	449.3	452.7
17.5°	441.3	441.3	440.2	440.2	440.2	440.2	441.3	442.5	444.7	447.0	450.4
20°	435.6	435.6	434.5	434.5	434.5	435.6	435.6	437.9	440.2	443.6	447.0
22.5°	428.8	428.8	428.8	427.6	428.8	429.9	431.0	433.3	435.6	439.0	443.6
25°	420.8	420.8	420.8	420.8	421.9	421.9	424.2	426.5	428.8	433.3	437.9
27.5°	412.8	412.8	412.8	411.7	413.9	415.1	416.2	419.6	421.9	427.6	432.2
30°	402.5	402.5	402.5	403.7	404.8	406.0	408.2	411.7	413.9	419.6	425.3
32.5°	392.3	392.3	392.3	392.3	395.7	396.8	398.0	401.4	406.0	411.7	417.4
35°	380.9	380.9	380.9	382.0	384.3	385.4	387.7	391.1	395.7	401.4	407.1
37.5°	368.3	369.5	369.5	370.6	372.9	375.2	377.5	380.9	385.4	391.1	396.8
40°	354.6	355.8	355.8	356.9	359.2	361.5	363.8	368.3	372.9	378.6	384.3
42.5°	341.0	342.1	342.1	344.4	346.7	348.9	351.2	355.8	360.3	366.0	370.6
45°	326.1	327.3	327.3	329.6	333.0	334.1	337.5	342.1	346.7	351.2	355.8
47.5°	310.2	311.3	311.3	313.6	317.0	319.3	321.6	326.1	329.6	335.3	339.8
50°	291.9	293.1	294.2	296.5	301.0	303.3	305.6	309.0	313.6	317.0	321.6
52.5°	274.8	274.8	276.0	278.2	281.7	283.9	285.1	288.5	294.2	298.8	303.3
55°	255.4	256.6	257.7	260.0	263.4	265.7	266.8	270.3	273.7	277.1	281.7
57.5°	238.3	238.3	239.5	241.8	245.2	246.3	247.5	249.7	254.3	257.7	261.1
60°	217.8	218.9	220.1	222.4	224.6	226.9	226.9	230.3	233.8	237.2	239.5
62.5°	199.6	199.6	200.7	203.0	204.1	206.4	206.4	209.8	212.1	215.5	217.8
65°	177.9	179.0	180.2	181.3	183.6	183.6	184.7	187.0	189.3	191.6	195.0
67.5°	158.5	158.5	159.6	160.8	161.9	161.9	163.1	165.3	167.6	169.9	172.2
70°	136.8	138.0	138.0	138.0	139.1	140.3	141.4	142.5	144.8	146.0	148.2
72.5°	115.2	115.2	116.3	116.3	117.5	118.6	119.7	120.9	122.0	124.3	125.4
75°	93.5	93.5	94.6	94.6	95.8	95.8	95.8	98.1	99.2	101.5	102.6
77.5°	71.8	73.0	73.0	73.0	74.1	75.3	75.3	76.4	78.7	79.8	81.0
80°	52.5	52.5	52.5	52.5	53.6	54.7	55.9	55.9	58.2	60.4	61.6
82.5°	33.1	33.1	34.2	35.4	35.4	36.5	37.6	38.8	41.1	42.2	43.3
85°	17.1	17.1	18.2	19.4	20.5	21.7	21.7	22.8	25.1	27.4	28.5
87.5°	5.7	6.8	6.8	8.0	9.1	10.3	11.4	12.5	14.8	17.1	18.2
90°	1.1	1.1	1.1	2.3	3.4	3.4	4.6	5.7	6.8	8.0	10.3
92.5°	10.3	10.3	9.1	10.3	10.3	10.3	10.3	11.4	12.5	12.5	14.8
95°	30.8	29.6	29.6	29.6	29.6	29.6	29.6	30.8	31.9	31.9	33.1
97.5°	59.3	59.3	58.2	58.2	59.3	59.3	59.3	60.4	62.7	61.6	63.9
100°	92.4	92.4	91.2	92.4	93.5	94.6	96.9	96.9	99.2	99.2	102.6
102.5°	130.0	130.0	128.9	131.1	132.3	134.6	134.6	136.8	140.3	140.3	144.8
105°	167.6	168.8	168.8	171.1	173.3	175.6	175.6	179.0	183.6	183.6	189.3
107.5°	208.7	209.8	209.8	212.1	214.4	216.7	217.8	222.4	226.9	228.1	234.9
110°	248.6	249.7	250.9	253.2	255.4	258.9	261.1	265.7	271.4	273.7	279.4



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CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	286.2	290.8	291.9	295.3	298.8	302.2	304.5	310.2	317.0	320.4	327.3
115°	329.6	331.8	333.0	336.4	341.0	344.4	346.7	352.4	359.2	363.8	371.8
117.5°	364.9	370.6	371.8	375.2	379.7	383.2	385.4	392.3	400.3	406.0	413.9
120°	402.5	407.1	411.7	413.9	417.4	421.9	424.2	431.0	440.2	445.9	455.0
122.5°	436.7	441.3	445.9	449.3	453.9	456.1	459.6	467.5	476.7	483.5	492.6
125°	471.0	476.7	480.1	483.5	489.2	491.5	494.9	502.9	512.0	520.0	529.1
127.5°	504.0	507.5	513.2	515.4	521.1	523.4	526.8	536.0	545.1	553.1	562.2
130°	534.8	539.4	543.9	545.1	551.9	555.3	558.8	566.7	577.0	585.0	594.1
132.5°	564.5	566.7	572.5	575.9	581.6	585.0	588.4	595.3	605.5	613.5	622.6
135°	591.8	594.1	601.0	604.4	607.8	611.2	615.8	622.6	632.9	640.9	650.0
137.5°	619.2	621.5	628.3	631.7	634.0	637.4	640.9	647.7	658.0	666.0	673.9
140°	644.3	646.6	651.1	655.7	658.0	660.3	663.7	670.5	679.6	687.6	695.6
142.5°	667.1	669.4	673.9	678.5	681.9	681.9	685.3	691.0	701.3	709.3	716.1
145°	688.8	689.9	694.5	699.0	703.6	703.6	704.7	710.4	719.6	728.7	735.5
147.5°	709.3	710.4	713.9	718.4	721.8	723.0	725.3	727.5	736.7	745.8	753.8
150°	727.5	728.7	731.0	735.5	737.8	740.1	742.4	743.5	750.3	758.3	767.4
152.5°	743.5	744.6	746.9	750.3	752.6	754.9	757.2	760.6	764.0	772.0	777.7
155°	759.5	760.6	761.7	765.2	767.4	768.6	769.7	774.3	777.7	782.3	788.0
157.5°	773.2	773.2	774.3	776.6	778.9	778.9	780.0	784.6	788.0	792.5	796.0
160°	784.6	784.6	785.7	788.0	788.0	789.1	790.3	793.7	796.0	801.7	806.2
162.5°	794.8	793.7	794.8	796.0	796.0	796.0	797.1	799.4	802.8	807.4	811.9
165°	802.8	802.8	802.8	803.9	803.9	802.8	802.8	805.1	807.4	810.8	814.2
167.5°	809.6	809.6	808.5	809.6	808.5	808.5	807.4	808.5	809.6	813.1	815.3
170°	815.3	814.2	814.2	814.2	813.1	811.9	811.9	811.9	811.9	814.2	816.5
172.5°	819.9	818.8	817.6	817.6	815.3	814.2	814.2	813.1	813.1	814.2	815.3
175°	821.0	819.9	818.8	818.8	816.5	815.3	814.2	814.2	813.1	814.2	815.3
177.5°	823.3	822.2	819.9	819.9	817.6	815.3	815.3	814.2	813.1	814.2	814.2
180°	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9



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CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	457.3	457.3	456.1	455.0	455.0	453.9	452.7	451.6	450.4	449.3
5°	457.3	456.1	455.0	455.0	453.9	453.9	453.9	452.7	451.6	451.6
7.5°	457.3	457.3	456.1	455.0	455.0	455.0	455.0	455.0	453.9	453.9
10°	457.3	456.1	456.1	456.1	455.0	456.1	456.1	455.0	455.0	453.9
12.5°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	455.0
15°	453.9	455.0	455.0	456.1	456.1	456.1	457.3	457.3	456.1	456.1
17.5°	452.7	453.9	455.0	456.1	456.1	456.1	457.3	457.3	457.3	457.3
20°	450.4	451.6	452.7	453.9	453.9	455.0	455.0	456.1	456.1	456.1
22.5°	445.9	447.0	449.3	450.4	451.6	452.7	453.9	453.9	453.9	453.9
25°	441.3	443.6	444.7	447.0	448.2	449.3	450.4	450.4	450.4	451.6
27.5°	435.6	437.9	441.3	442.5	443.6	444.7	445.9	447.0	447.0	447.0
30°	428.8	432.2	434.5	436.7	437.9	439.0	440.2	440.2	441.3	441.3
32.5°	420.8	424.2	426.5	428.8	429.9	431.0	433.3	433.3	434.5	434.5
35°	410.5	413.9	417.4	419.6	420.8	421.9	424.2	425.3	425.3	425.3
37.5°	400.3	403.7	407.1	410.5	411.7	412.8	415.1	415.1	416.2	416.2
40°	387.7	391.1	394.6	398.0	398.0	400.3	401.4	402.5	403.7	403.7
42.5°	375.2	378.6	380.9	384.3	385.4	386.6	387.7	390.0	390.0	391.1
45°	360.3	363.8	366.0	369.5	370.6	371.8	374.0	375.2	376.3	376.3
47.5°	344.4	346.7	348.9	352.4	354.6	355.8	356.9	358.1	359.2	358.1
50°	326.1	328.4	331.8	335.3	336.4	337.5	339.8	339.8	341.0	341.0
52.5°	306.8	310.2	312.5	315.9	317.0	318.2	320.4	320.4	321.6	321.6
55°	285.1	287.4	289.6	295.3	296.5	297.6	299.9	299.9	301.0	302.2
57.5°	264.6	265.7	269.1	271.4	273.7	273.7	274.8	276.0	277.1	277.1
60°	242.9	244.0	246.3	249.7	249.7	250.9	253.2	253.2	254.3	254.3
62.5°	220.1	222.4	224.6	228.1	226.9	228.1	230.3	230.3	231.5	231.5
65°	197.3	198.4	200.7	203.0	204.1	204.1	205.3	206.4	207.5	207.5
67.5°	173.3	175.6	176.8	180.2	179.0	180.2	181.3	181.3	182.5	182.5
70°	150.5	151.7	153.9	155.1	155.1	156.2	157.4	157.4	157.4	158.5
72.5°	127.7	128.9	130.0	131.1	131.1	132.3	133.4	133.4	134.6	134.6
75°	103.8	106.1	107.2	109.5	108.3	109.5	111.8	111.8	111.8	111.8
77.5°	83.2	84.4	86.7	87.8	87.8	87.8	90.1	88.9	90.1	90.1
80°	62.7	63.9	66.1	67.3	67.3	68.4	69.6	69.6	69.6	70.7
82.5°	44.5	46.8	49.0	50.2	50.2	51.3	52.5	52.5	53.6	53.6
85°	30.8	33.1	35.4	35.4	36.5	37.6	38.8	38.8	38.8	38.8
87.5°	20.5	21.7	22.8	23.9	25.1	25.1	26.2	26.2	27.4	27.4
90°	11.4	12.5	13.7	14.8	14.8	16.0	16.0	17.1	17.1	17.1
92.5°	16.0	16.0	17.1	18.2	18.2	18.2	18.2	19.4	19.4	19.4
95°	34.2	35.4	35.4	37.6	37.6	37.6	38.8	38.8	38.8	38.8
97.5°	66.1	66.1	66.1	68.4	68.4	68.4	69.6	69.6	69.6	70.7
100°	103.8	104.9	104.9	108.3	107.2	109.5	109.5	109.5	109.5	110.6
102.5°	146.0	148.2	149.4	152.8	152.8	152.8	155.1	153.9	155.1	155.1
105°	191.6	193.9	195.0	198.4	200.7	200.7	203.0	201.8	203.0	204.1
107.5°	237.2	240.6	242.9	246.3	248.6	249.7	249.7	250.9	252.0	253.2
110°	283.9	287.4	293.1	296.5	297.6	299.9	301.0	302.2	303.3	305.6



TEST NUMBER: P395568

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	333.0	336.4	341.0	345.5	344.4	347.8	350.1	351.2	352.4	351.2
115°	377.5	382.0	386.6	391.1	391.1	393.4	398.0	399.1	399.1	401.4
117.5°	419.6	425.3	429.9	434.5	435.6	437.9	441.3	444.7	444.7	447.0
120°	460.7	467.5	472.1	476.7	478.9	480.1	483.5	488.1	488.1	488.1
122.5°	499.5	505.2	510.9	515.4	517.7	520.0	522.3	528.0	528.0	530.3
125°	536.0	542.8	548.5	553.1	555.3	557.6	562.2	565.6	566.7	566.7
127.5°	570.2	577.0	582.7	588.4	589.6	591.8	596.4	601.0	602.1	603.2
130°	602.1	608.9	614.6	620.3	622.6	623.8	629.5	632.9	635.2	636.3
132.5°	630.6	637.4	643.2	648.9	651.1	653.4	656.8	662.5	663.7	663.7
135°	656.8	663.7	669.4	676.2	677.4	679.6	684.2	687.6	689.9	691.0
137.5°	680.8	687.6	694.5	700.2	702.4	703.6	708.2	712.7	715.0	716.1
140°	702.4	709.3	716.1	720.7	721.8	725.3	728.7	733.2	735.5	736.7
142.5°	723.0	728.7	734.4	740.1	741.2	743.5	746.9	751.5	753.8	754.9
145°	741.2	746.9	751.5	756.0	757.2	759.5	762.9	766.3	768.6	769.7
147.5°	758.3	762.9	767.4	770.9	772.0	774.3	776.6	778.9	781.1	782.3
150°	773.2	775.4	780.0	782.3	783.4	785.7	788.0	790.3	792.5	793.7
152.5°	784.6	788.0	790.3	793.7	794.8	796.0	798.2	800.5	802.8	802.8
155°	793.7	797.1	799.4	802.8	803.9	805.1	807.4	808.5	810.8	810.8
157.5°	800.5	803.9	806.2	808.5	809.6	810.8	811.9	814.2	816.5	816.5
160°	808.5	809.6	810.8	813.1	813.1	814.2	815.3	816.5	818.8	818.8
162.5°	815.3	816.5	814.2	815.3	814.2	815.3	816.5	817.6	818.8	818.8
165°	817.6	819.9	818.8	819.9	819.9	819.9	819.9	821.0	821.0	821.0
167.5°	817.6	819.9	818.8	818.8	819.9	819.9	821.0	822.2	822.2	822.2
170°	817.6	818.8	817.6	816.5	817.6	817.6	817.6	818.8	818.8	818.8
172.5°	816.5	817.6	815.3	814.2	814.2	814.2	813.1	813.1	811.9	811.9
175°	815.3	815.3	813.1	811.9	811.9	811.9	809.6	808.5	807.4	806.2
177.5°	814.2	814.2	810.8	809.6	809.6	808.5	808.5	806.2	806.2	805.1
180°	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9	811.9

(END OF REPORT)