

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: P395547

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395547
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-40L82765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, FROSTED TOP COVER
4000 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: 3758.4 lumens
Efficiency: N/A
Efficacy: 131.9 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

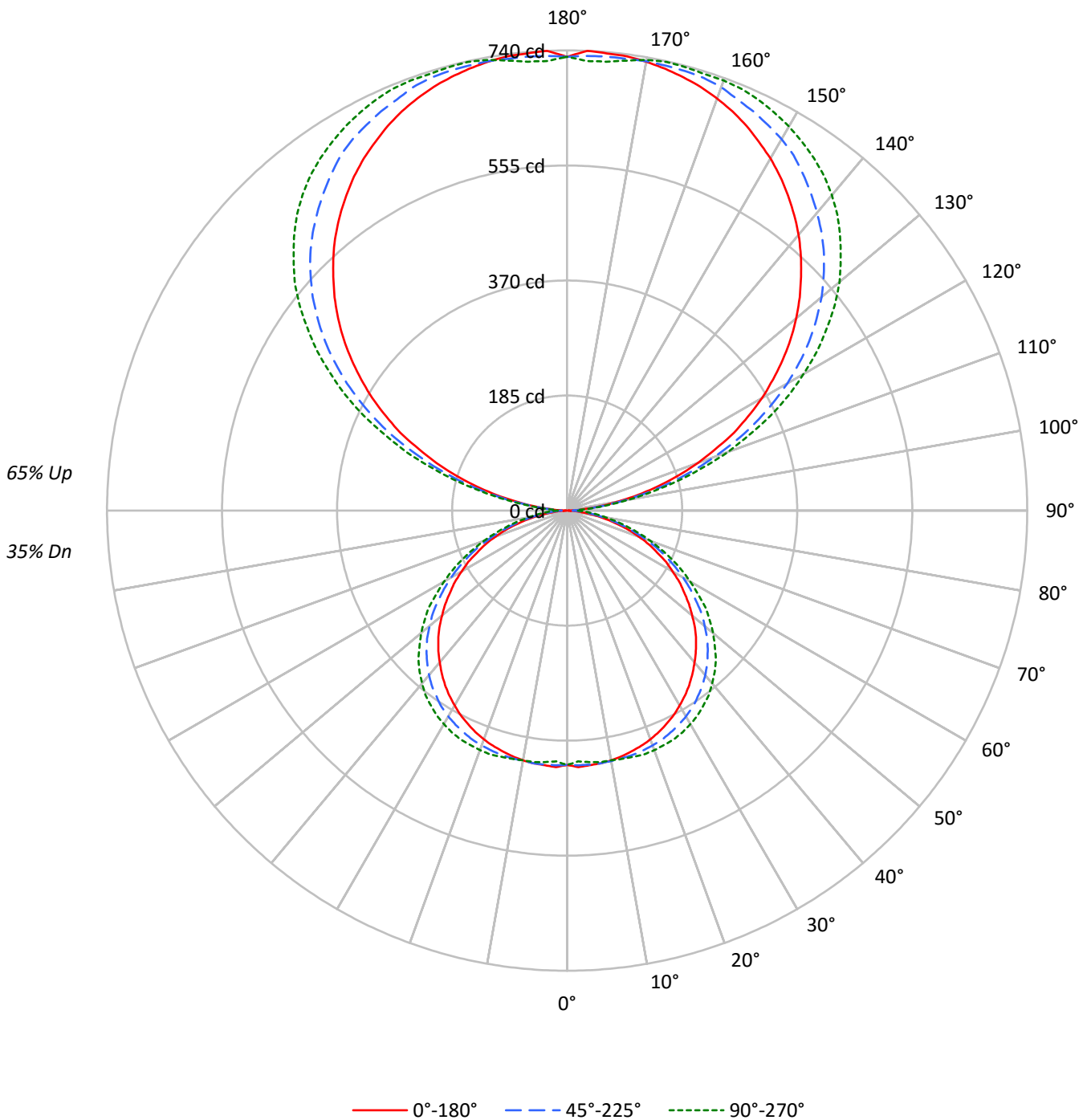
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2248	2248	2248
5°	2259	2211	2176
10°	2260	2180	2150
15°	2254	2161	2142
20°	2255	2143	2139
25°	2249	2124	2130
30°	2241	2104	2111
35°	2230	2070	2080
40°	2208	2026	2034
45°	2185	1964	1972
50°	2135	1877	1875
55°	2074	1759	1763
60°	2005	1620	1593
65°	1906	1452	1414
70°	1770	1237	1195
75°	1539	983	950
80°	1201	698	695
85°	653	400	456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	1.0
10°-20°	114.7	3.1
20°-30°	180.8	4.8
30°-40°	227.3	6.0
40°-50°	244.4	6.5
50°-60°	224.8	6.0
60°-70°	172.2	4.6
70°-80°	98.1	2.6
80°-90°	30.6	0.8
90°-100°	40.9	1.1
100°-110°	178.1	4.7
110°-120°	326.1	8.7
120°-130°	420.3	11.2
130°-140°	447.3	11.9
140°-150°	411.5	10.9
150°-160°	326.0	8.7
160°-170°	206.4	5.5
170°-180°	69.9	1.9
0°-30°	334.5	8.9
0°-40°	561.8	14.9
0°-60°	1031.0	27.4
0°-90°	1331.9	35.4
90°-120°	545.2	14.5
90°-150°	1824.2	48.5
90°-180°	2427.0	64.6
0°-180°	3758.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	411	407	410	408	406	39
15°	401	399	407	410	410	113
25°	378	379	394	403	406	174
35°	342	346	366	378	382	214
45°	293	300	320	333	338	226
55°	230	239	253	266	272	206
65°	160	165	175	184	186	159
75°	84	86	92	97	100	89
85°	15	20	26	33	35	19
90°	1	3	9	13	15	2
95°	28	27	30	34	35	35
105°	151	158	170	180	184	160
115°	296	310	334	352	361	290
125°	423	442	476	499	509	378
135°	532	549	584	609	621	411
145°	619	632	661	680	692	387
155°	683	691	708	723	729	315
165°	722	722	732	737	738	204
175°	738	733	733	730	725	70
180°	730	730	730	730	730	



TEST NUMBER: P395547

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9
2.5°	413.0	412.0	411.0	408.9	408.9	407.9	407.9	407.9	407.9	408.9	410.0
5°	411.0	411.0	410.0	407.9	407.9	406.9	406.9	407.9	406.9	407.9	410.0
7.5°	410.0	410.0	408.9	406.9	406.9	406.9	406.9	406.9	406.9	407.9	410.0
10°	407.9	407.9	405.9	404.8	404.8	404.8	404.8	405.9	405.9	406.9	408.9
12.5°	404.8	403.8	402.8	401.8	401.8	401.8	402.8	403.8	403.8	405.9	407.9
15°	400.7	400.7	399.7	398.7	398.7	398.7	399.7	400.7	401.8	403.8	406.9
17.5°	396.6	396.6	395.6	395.6	395.6	395.6	396.6	397.7	399.7	401.8	404.8
20°	391.5	391.5	390.5	390.5	390.5	391.5	391.5	393.6	395.6	398.7	401.8
22.5°	385.4	385.4	385.4	384.3	385.4	386.4	387.4	389.5	391.5	394.6	398.7
25°	378.2	378.2	378.2	378.2	379.2	379.2	381.3	383.3	385.4	389.5	393.6
27.5°	371.0	371.0	371.0	370.0	372.0	373.1	374.1	377.2	379.2	384.3	388.4
30°	361.8	361.8	361.8	362.8	363.8	364.9	366.9	370.0	372.0	377.2	382.3
32.5°	352.6	352.6	352.6	352.6	355.6	356.7	357.7	360.8	364.9	370.0	375.1
35°	342.3	342.3	342.3	343.3	345.4	346.4	348.5	351.5	355.6	360.8	365.9
37.5°	331.0	332.1	332.1	333.1	335.1	337.2	339.2	342.3	346.4	351.5	356.7
40°	318.7	319.8	319.8	320.8	322.8	324.9	326.9	331.0	335.1	340.3	345.4
42.5°	306.4	307.5	307.5	309.5	311.6	313.6	315.7	319.8	323.9	329.0	333.1
45°	293.1	294.2	294.2	296.2	299.3	300.3	303.4	307.5	311.6	315.7	319.8
47.5°	278.8	279.8	279.8	281.9	284.9	287.0	289.0	293.1	296.2	301.3	305.4
50°	262.4	263.4	264.4	266.5	270.6	272.6	274.7	277.8	281.9	284.9	289.0
52.5°	247.0	247.0	248.0	250.1	253.2	255.2	256.2	259.3	264.4	268.5	272.6
55°	229.6	230.6	231.6	233.7	236.8	238.8	239.8	242.9	246.0	249.1	253.2
57.5°	214.2	214.2	215.2	217.3	220.4	221.4	222.4	224.5	228.6	231.6	234.7
60°	195.8	196.8	197.8	199.9	201.9	204.0	204.0	207.0	210.1	213.2	215.2
62.5°	179.4	179.4	180.4	182.4	183.5	185.5	185.5	188.6	190.6	193.7	195.8
65°	159.9	160.9	161.9	163.0	165.0	165.0	166.0	168.1	170.1	172.2	175.3
67.5°	142.5	142.5	143.5	144.5	145.5	145.5	146.6	148.6	150.7	152.7	154.8
70°	123.0	124.0	124.0	124.0	125.0	126.1	127.1	128.1	130.2	131.2	133.2
72.5°	103.5	103.5	104.5	104.5	105.6	106.6	107.6	108.6	109.7	111.7	112.7
75°	84.0	84.0	85.1	85.1	86.1	86.1	86.1	88.1	89.2	91.2	92.2
77.5°	64.6	65.6	65.6	65.6	66.6	67.6	67.6	68.7	70.7	71.7	72.8
80°	47.1	47.1	47.1	47.1	48.2	49.2	50.2	50.2	52.3	54.3	55.3
82.5°	29.7	29.7	30.7	31.8	31.8	32.8	33.8	34.8	36.9	37.9	38.9
85°	15.4	15.4	16.4	17.4	18.4	19.5	19.5	20.5	22.5	24.6	25.6
87.5°	5.1	6.1	6.1	7.2	8.2	9.2	10.2	11.3	13.3	15.4	16.4
90°	1.0	1.0	1.0	2.0	3.1	3.1	4.1	5.1	6.1	7.2	9.2
92.5°	9.2	9.2	8.2	9.2	9.2	9.2	9.2	10.2	11.3	11.3	13.3
95°	27.7	26.6	26.6	26.6	26.6	26.6	26.6	27.7	28.7	28.7	29.7
97.5°	53.3	53.3	52.3	52.3	53.3	53.3	53.3	54.3	56.4	55.3	57.4
100°	83.0	83.0	82.0	83.0	84.0	85.1	87.1	87.1	89.2	89.2	92.2
102.5°	116.8	116.8	115.8	117.9	118.9	120.9	120.9	123.0	126.1	126.1	130.2
105°	150.7	151.7	151.7	153.7	155.8	157.8	157.8	160.9	165.0	165.0	170.1
107.5°	187.6	188.6	188.6	190.6	192.7	194.7	195.8	199.9	204.0	205.0	211.1
110°	223.4	224.5	225.5	227.5	229.6	232.7	234.7	238.8	243.9	246.0	251.1



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CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	257.3	261.4	262.4	265.5	268.5	271.6	273.7	278.8	284.9	288.0	294.2
115°	296.2	298.3	299.3	302.4	306.4	309.5	311.6	316.7	322.8	326.9	334.1
117.5°	328.0	333.1	334.1	337.2	341.3	344.4	346.4	352.6	359.7	364.9	372.0
120°	361.8	365.9	370.0	372.0	375.1	379.2	381.3	387.4	395.6	400.7	408.9
122.5°	392.5	396.6	400.7	403.8	407.9	410.0	413.0	420.2	428.4	434.6	442.8
125°	423.3	428.4	431.5	434.6	439.7	441.7	444.8	452.0	460.2	467.4	475.6
127.5°	453.0	456.1	461.2	463.3	468.4	470.4	473.5	481.7	489.9	497.1	505.3
130°	480.7	484.8	488.9	489.9	496.1	499.1	502.2	509.4	518.6	525.8	534.0
132.5°	507.3	509.4	514.5	517.6	522.7	525.8	528.9	535.0	544.2	551.4	559.6
135°	531.9	534.0	540.1	543.2	546.3	549.4	553.5	559.6	568.8	576.0	584.2
137.5°	556.5	558.6	564.7	567.8	569.9	572.9	576.0	582.2	591.4	598.6	605.7
140°	579.1	581.1	585.2	589.3	591.4	593.4	596.5	602.7	610.9	618.0	625.2
142.5°	599.6	601.6	605.7	609.8	612.9	612.9	616.0	621.1	630.3	637.5	643.6
145°	619.0	620.1	624.2	628.3	632.4	632.4	633.4	638.5	646.7	654.9	661.1
147.5°	637.5	638.5	641.6	645.7	648.8	649.8	651.8	653.9	662.1	670.3	677.5
150°	653.9	654.9	657.0	661.1	663.1	665.2	667.2	668.2	674.4	681.6	689.8
152.5°	668.2	669.3	671.3	674.4	676.4	678.5	680.5	683.6	686.7	693.9	699.0
155°	682.6	683.6	684.6	687.7	689.8	690.8	691.8	695.9	699.0	703.1	708.2
157.5°	694.9	694.9	695.9	698.0	700.0	700.0	701.0	705.1	708.2	712.3	715.4
160°	705.1	705.1	706.2	708.2	708.2	709.2	710.3	713.3	715.4	720.5	724.6
162.5°	714.4	713.3	714.4	715.4	715.4	715.4	716.4	718.5	721.5	725.6	729.7
165°	721.5	721.5	721.5	722.6	722.6	721.5	721.5	723.6	725.6	728.7	731.8
167.5°	727.7	727.7	726.7	727.7	726.7	726.7	725.6	726.7	727.7	730.8	732.8
170°	732.8	731.8	731.8	731.8	730.8	729.7	729.7	729.7	729.7	731.8	733.8
172.5°	736.9	735.9	734.9	734.9	732.8	731.8	731.8	730.8	730.8	731.8	732.8
175°	737.9	736.9	735.9	735.9	733.8	732.8	731.8	731.8	730.8	731.8	732.8
177.5°	740.0	739.0	736.9	736.9	734.9	732.8	732.8	731.8	730.8	731.8	731.8
180°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7



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CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9
2.5°	411.0	411.0	410.0	408.9	408.9	407.9	406.9	405.9	404.8	403.8
5°	411.0	410.0	408.9	408.9	407.9	407.9	407.9	406.9	405.9	405.9
7.5°	411.0	411.0	410.0	408.9	408.9	408.9	408.9	408.9	407.9	407.9
10°	411.0	410.0	410.0	410.0	408.9	410.0	410.0	408.9	408.9	407.9
12.5°	410.0	410.0	410.0	410.0	410.0	410.0	410.0	410.0	410.0	408.9
15°	407.9	408.9	408.9	410.0	410.0	410.0	411.0	411.0	410.0	410.0
17.5°	406.9	407.9	408.9	410.0	410.0	410.0	411.0	411.0	411.0	411.0
20°	404.8	405.9	406.9	407.9	407.9	408.9	408.9	410.0	410.0	410.0
22.5°	400.7	401.8	403.8	404.8	405.9	406.9	407.9	407.9	407.9	407.9
25°	396.6	398.7	399.7	401.8	402.8	403.8	404.8	404.8	404.8	405.9
27.5°	391.5	393.6	396.6	397.7	398.7	399.7	400.7	401.8	401.8	401.8
30°	385.4	388.4	390.5	392.5	393.6	394.6	395.6	395.6	396.6	396.6
32.5°	378.2	381.3	383.3	385.4	386.4	387.4	389.5	389.5	390.5	390.5
35°	369.0	372.0	375.1	377.2	378.2	379.2	381.3	382.3	382.3	382.3
37.5°	359.7	362.8	365.9	369.0	370.0	371.0	373.1	373.1	374.1	374.1
40°	348.5	351.5	354.6	357.7	357.7	359.7	360.8	361.8	362.8	362.8
42.5°	337.2	340.3	342.3	345.4	346.4	347.4	348.5	350.5	350.5	351.5
45°	323.9	326.9	329.0	332.1	333.1	334.1	336.2	337.2	338.2	338.2
47.5°	309.5	311.6	313.6	316.7	318.7	319.8	320.8	321.8	322.8	321.8
50°	293.1	295.2	298.3	301.3	302.4	303.4	305.4	305.4	306.4	306.4
52.5°	275.7	278.8	280.8	283.9	284.9	286.0	288.0	288.0	289.0	289.0
55°	256.2	258.3	260.3	265.5	266.5	267.5	269.6	269.6	270.6	271.6
57.5°	237.8	238.8	241.9	243.9	246.0	246.0	247.0	248.0	249.1	249.1
60°	218.3	219.3	221.4	224.5	224.5	225.5	227.5	227.5	228.6	228.6
62.5°	197.8	199.9	201.9	205.0	204.0	205.0	207.0	207.0	208.1	208.1
65°	177.3	178.3	180.4	182.4	183.5	183.5	184.5	185.5	186.5	186.5
67.5°	155.8	157.8	158.9	161.9	160.9	161.9	163.0	163.0	164.0	164.0
70°	135.3	136.3	138.4	139.4	139.4	140.4	141.4	141.4	141.4	142.5
72.5°	114.8	115.8	116.8	117.9	117.9	118.9	119.9	119.9	120.9	120.9
75°	93.3	95.3	96.3	98.4	97.4	98.4	100.4	100.4	100.4	100.4
77.5°	74.8	75.8	77.9	78.9	78.9	78.9	81.0	79.9	81.0	81.0
80°	56.4	57.4	59.4	60.5	60.5	61.5	62.5	62.5	62.5	63.5
82.5°	40.0	42.0	44.1	45.1	45.1	46.1	47.1	47.1	48.2	48.2
85°	27.7	29.7	31.8	31.8	32.8	33.8	34.8	34.8	34.8	34.8
87.5°	18.4	19.5	20.5	21.5	22.5	22.5	23.6	23.6	24.6	24.6
90°	10.2	11.3	12.3	13.3	13.3	14.3	14.3	15.4	15.4	15.4
92.5°	14.3	14.3	15.4	16.4	16.4	16.4	16.4	17.4	17.4	17.4
95°	30.7	31.8	31.8	33.8	33.8	33.8	34.8	34.8	34.8	34.8
97.5°	59.4	59.4	59.4	61.5	61.5	61.5	62.5	62.5	62.5	63.5
100°	93.3	94.3	94.3	97.4	96.3	98.4	98.4	98.4	98.4	99.4
102.5°	131.2	133.2	134.3	137.3	137.3	137.3	139.4	138.4	139.4	139.4
105°	172.2	174.2	175.3	178.3	180.4	180.4	182.4	181.4	182.4	183.5
107.5°	213.2	216.3	218.3	221.4	223.4	224.5	224.5	225.5	226.5	227.5
110°	255.2	258.3	263.4	266.5	267.5	269.6	270.6	271.6	272.6	274.7



TEST NUMBER: P395547

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	299.3	302.4	306.4	310.5	309.5	312.6	314.6	315.7	316.7	315.7
115°	339.2	343.3	347.4	351.5	351.5	353.6	357.7	358.7	358.7	360.8
117.5°	377.2	382.3	386.4	390.5	391.5	393.6	396.6	399.7	399.7	401.8
120°	414.1	420.2	424.3	428.4	430.5	431.5	434.6	438.7	438.7	438.7
122.5°	448.9	454.0	459.2	463.3	465.3	467.4	469.4	474.5	474.5	476.6
125°	481.7	487.9	493.0	497.1	499.1	501.2	505.3	508.4	509.4	509.4
127.5°	512.5	518.6	523.7	528.9	529.9	531.9	536.0	540.1	541.2	542.2
130°	541.2	547.3	552.4	557.6	559.6	560.6	565.8	568.8	570.9	571.9
132.5°	566.8	572.9	578.1	583.2	585.2	587.3	590.4	595.5	596.5	596.5
135°	590.4	596.5	601.6	607.8	608.8	610.9	614.9	618.0	620.1	621.1
137.5°	611.9	618.0	624.2	629.3	631.3	632.4	636.5	640.6	642.6	643.6
140°	631.3	637.5	643.6	647.7	648.8	651.8	654.9	659.0	661.1	662.1
142.5°	649.8	654.9	660.0	665.2	666.2	668.2	671.3	675.4	677.5	678.5
145°	666.2	671.3	675.4	679.5	680.5	682.6	685.7	688.7	690.8	691.8
147.5°	681.6	685.7	689.8	692.8	693.9	695.9	698.0	700.0	702.1	703.1
150°	694.9	696.9	701.0	703.1	704.1	706.2	708.2	710.3	712.3	713.3
152.5°	705.1	708.2	710.3	713.3	714.4	715.4	717.4	719.5	721.5	721.5
155°	713.3	716.4	718.5	721.5	722.6	723.6	725.6	726.7	728.7	728.7
157.5°	719.5	722.6	724.6	726.7	727.7	728.7	729.7	731.8	733.8	733.8
160°	726.7	727.7	728.7	730.8	730.8	731.8	732.8	733.8	735.9	735.9
162.5°	732.8	733.8	731.8	732.8	731.8	732.8	733.8	734.9	735.9	735.9
165°	734.9	736.9	735.9	736.9	736.9	736.9	736.9	737.9	737.9	737.9
167.5°	734.9	736.9	735.9	735.9	736.9	736.9	737.9	739.0	739.0	739.0
170°	734.9	735.9	734.9	733.8	734.9	734.9	734.9	735.9	735.9	735.9
172.5°	733.8	734.9	732.8	731.8	731.8	731.8	730.8	730.8	729.7	729.7
175°	732.8	732.8	730.8	729.7	729.7	729.7	727.7	726.7	725.6	724.6
177.5°	731.8	731.8	728.7	727.7	727.7	726.7	726.7	724.6	724.6	723.6
180°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7	729.7

(END OF REPORT)