

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: P395542

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395542
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 (2700K)
Description: CORELITE I3, FROSTED TOP COVER
4000 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: 3349.8 lumens
Efficiency: N/A
Efficacy: 120.1 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

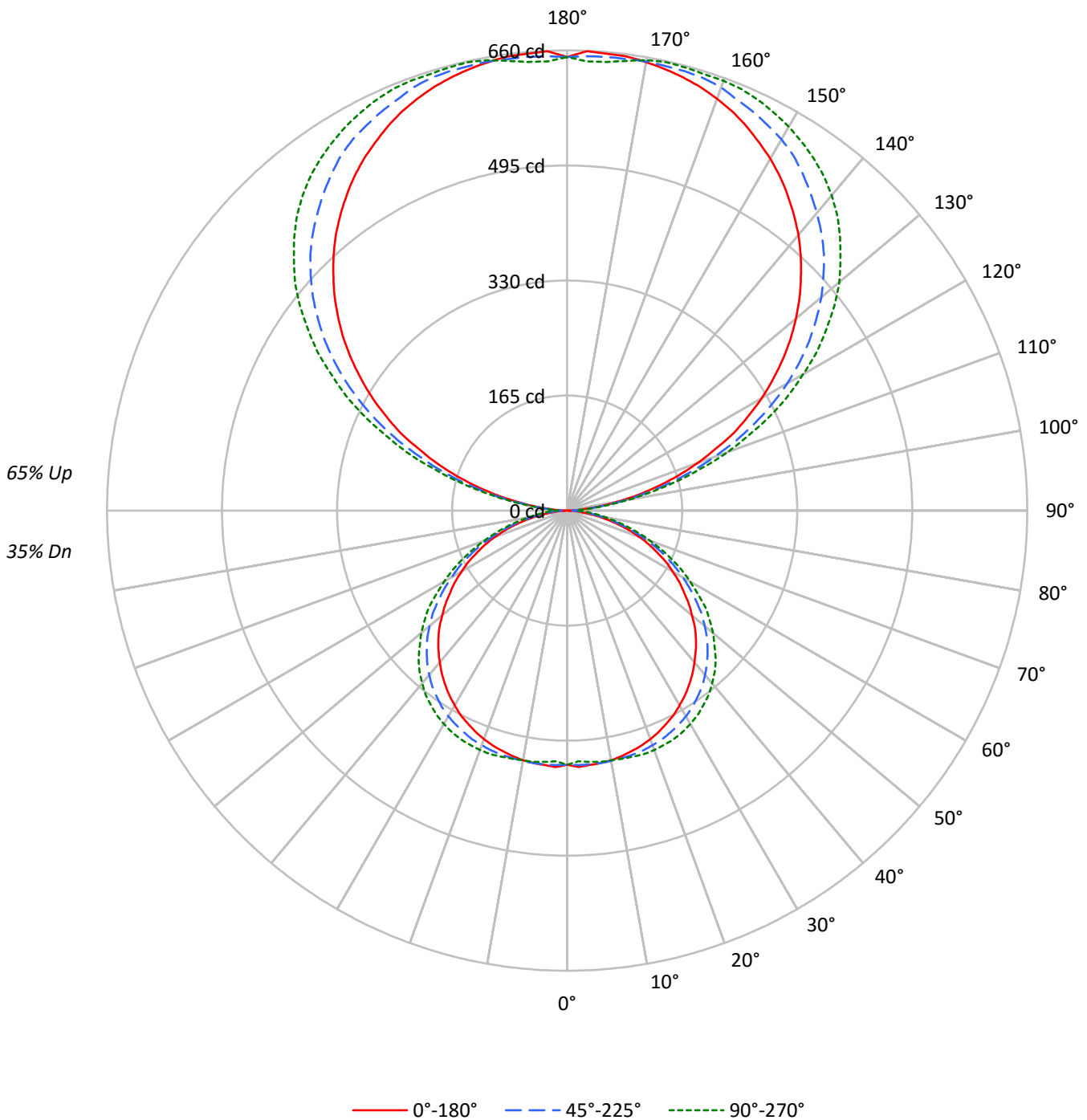
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2003	2003	2003
5°	2014	1970	1939
10°	2014	1943	1917
15°	2010	1926	1909
20°	2010	1910	1906
25°	2005	1893	1898
30°	1998	1875	1881
35°	1988	1845	1853
40°	1968	1806	1813
45°	1948	1750	1757
50°	1903	1673	1671
55°	1848	1567	1572
60°	1787	1444	1420
65°	1698	1294	1261
70°	1577	1103	1065
75°	1373	876	847
80°	1071	622	620
85°	581	356	408



TEST NUMBER: P395542

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.0
10°-20°	102.2	3.1
20°-30°	161.2	4.8
30°-40°	202.6	6.0
40°-50°	217.8	6.5
50°-60°	200.4	6.0
60°-70°	153.5	4.6
70°-80°	87.4	2.6
80°-90°	27.3	0.8
90°-100°	36.5	1.1
100°-110°	158.8	4.7
110°-120°	290.6	8.7
120°-130°	374.6	11.2
130°-140°	398.6	11.9
140°-150°	366.7	10.9
150°-160°	290.5	8.7
160°-170°	184.0	5.5
170°-180°	62.3	1.9
0°-30°	298.1	8.9
0°-40°	500.7	14.9
0°-60°	918.9	27.4
0°-90°	1187.1	35.4
90°-120°	485.9	14.5
90°-150°	1625.9	48.5
90°-180°	2163.0	64.6
0°-180°	3349.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	364	364	364	364	364	
5°	366	363	365	364	362	35
15°	357	355	363	365	365	101
25°	337	338	351	359	362	156
35°	305	309	326	337	341	191
45°	261	268	285	297	301	201
55°	205	213	226	238	242	183
65°	142	147	156	164	166	141
75°	75	77	82	87	90	79
85°	14	17	23	29	31	17
90°	1	3	8	12	14	2
95°	25	24	26	30	31	31
105°	134	141	152	161	164	143
115°	264	276	298	313	322	259
125°	377	394	424	445	454	337
135°	474	490	521	543	554	366
145°	552	564	589	606	617	345
155°	608	616	631	644	650	280
165°	643	643	652	657	658	182
175°	658	653	653	650	646	63
180°	650	650	650	650	650	



TEST NUMBER: P395542

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5
2.5°	368.1	367.2	366.3	364.5	364.5	363.6	363.6	363.6	363.6	364.5	365.4
5°	366.3	366.3	365.4	363.6	363.6	362.6	362.6	363.6	362.6	363.6	365.4
7.5°	365.4	365.4	364.5	362.6	362.6	362.6	362.6	362.6	362.6	363.6	365.4
10°	363.6	363.6	361.7	360.8	360.8	360.8	360.8	361.7	361.7	362.6	364.5
12.5°	360.8	359.9	359.0	358.1	358.1	358.1	359.0	359.9	359.9	361.7	363.6
15°	357.2	357.2	356.3	355.3	355.3	355.3	356.3	357.2	358.1	359.9	362.6
17.5°	353.5	353.5	352.6	352.6	352.6	352.6	353.5	354.4	356.3	358.1	360.8
20°	348.9	348.9	348.0	348.0	348.0	348.9	348.9	350.8	352.6	355.3	358.1
22.5°	343.5	343.5	343.5	342.6	343.5	344.4	345.3	347.1	348.9	351.7	355.3
25°	337.1	337.1	337.1	337.1	338.0	338.0	339.8	341.6	343.5	347.1	350.8
27.5°	330.7	330.7	330.7	329.8	331.6	332.5	333.4	336.2	338.0	342.6	346.2
30°	322.5	322.5	322.5	323.4	324.3	325.2	327.0	329.8	331.6	336.2	340.7
32.5°	314.2	314.2	314.2	314.2	317.0	317.9	318.8	321.5	325.2	329.8	334.3
35°	305.1	305.1	305.1	306.0	307.8	308.8	310.6	313.3	317.0	321.5	326.1
37.5°	295.1	296.0	296.0	296.9	298.7	300.5	302.4	305.1	308.8	313.3	317.9
40°	284.1	285.0	285.0	285.9	287.7	289.6	291.4	295.1	298.7	303.3	307.8
42.5°	273.1	274.0	274.0	275.9	277.7	279.5	281.3	285.0	288.7	293.2	296.9
45°	261.3	262.2	262.2	264.0	266.7	267.6	270.4	274.0	277.7	281.3	285.0
47.5°	248.5	249.4	249.4	251.2	253.9	255.8	257.6	261.3	264.0	268.6	272.2
50°	233.8	234.8	235.7	237.5	241.2	243.0	244.8	247.6	251.2	253.9	257.6
52.5°	220.1	220.1	221.1	222.9	225.6	227.5	228.4	231.1	235.7	239.3	243.0
55°	204.6	205.5	206.4	208.3	211.0	212.8	213.8	216.5	219.2	222.0	225.6
57.5°	190.9	190.9	191.8	193.7	196.4	197.3	198.2	200.0	203.7	206.4	209.2
60°	174.5	175.4	176.3	178.1	180.0	181.8	181.8	184.5	187.3	190.0	191.8
62.5°	159.9	159.9	160.8	162.6	163.5	165.3	165.3	168.1	169.9	172.6	174.5
65°	142.5	143.4	144.3	145.2	147.1	147.1	148.0	149.8	151.6	153.5	156.2
67.5°	127.0	127.0	127.9	128.8	129.7	129.7	130.6	132.5	134.3	136.1	137.9
70°	109.6	110.5	110.5	110.5	111.4	112.4	113.3	114.2	116.0	116.9	118.8
72.5°	92.3	92.3	93.2	93.2	94.1	95.0	95.9	96.8	97.7	99.6	100.5
75°	74.9	74.9	75.8	75.8	76.7	76.7	76.7	78.6	79.5	81.3	82.2
77.5°	57.5	58.5	58.5	58.5	59.4	60.3	60.3	61.2	63.0	63.9	64.9
80°	42.0	42.0	42.0	42.0	42.9	43.8	44.8	44.8	46.6	48.4	49.3
82.5°	26.5	26.5	27.4	28.3	28.3	29.2	30.1	31.1	32.9	33.8	34.7
85°	13.7	13.7	14.6	15.5	16.4	17.4	17.4	18.3	20.1	21.9	22.8
87.5°	4.6	5.5	5.5	6.4	7.3	8.2	9.1	10.0	11.9	13.7	14.6
90°	0.9	0.9	0.9	1.8	2.7	2.7	3.7	4.6	5.5	6.4	8.2
92.5°	8.2	8.2	7.3	8.2	8.2	8.2	8.2	9.1	10.0	10.0	11.9
95°	24.7	23.8	23.8	23.8	23.8	23.8	23.8	24.7	25.6	25.6	26.5
97.5°	47.5	47.5	46.6	46.6	47.5	47.5	47.5	48.4	50.2	49.3	51.2
100°	74.0	74.0	73.1	74.0	74.9	75.8	77.6	77.6	79.5	79.5	82.2
102.5°	104.1	104.1	103.2	105.0	106.0	107.8	107.8	109.6	112.4	112.4	116.0
105°	134.3	135.2	135.2	137.0	138.8	140.7	140.7	143.4	147.1	147.1	151.6
107.5°	167.2	168.1	168.1	169.9	171.7	173.6	174.5	178.1	181.8	182.7	188.2
110°	199.1	200.0	201.0	202.8	204.6	207.4	209.2	212.8	217.4	219.2	223.8



TEST NUMBER: P395542

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	229.3	232.9	233.8	236.6	239.3	242.1	243.9	248.5	253.9	256.7	262.2
115°	264.0	265.8	266.7	269.5	273.1	275.9	277.7	282.3	287.7	291.4	297.8
117.5°	292.3	296.9	297.8	300.5	304.2	306.9	308.8	314.2	320.6	325.2	331.6
120°	322.5	326.1	329.8	331.6	334.3	338.0	339.8	345.3	352.6	357.2	364.5
122.5°	349.9	353.5	357.2	359.9	363.6	365.4	368.1	374.5	381.8	387.3	394.6
125°	377.3	381.8	384.6	387.3	391.9	393.7	396.4	402.8	410.1	416.5	423.8
127.5°	403.8	406.5	411.1	412.9	417.5	419.3	422.0	429.3	436.6	443.0	450.3
130°	428.4	432.1	435.7	436.6	442.1	444.9	447.6	454.0	462.2	468.6	475.9
132.5°	452.2	454.0	458.6	461.3	465.9	468.6	471.3	476.8	485.1	491.4	498.8
135°	474.1	475.9	481.4	484.1	486.9	489.6	493.3	498.8	507.0	513.4	520.7
137.5°	496.0	497.8	503.3	506.1	507.9	510.6	513.4	518.9	527.1	533.5	539.9
140°	516.1	517.9	521.6	525.2	527.1	528.9	531.6	537.1	544.4	550.8	557.2
142.5°	534.4	536.2	539.9	543.5	546.3	546.3	549.0	553.6	561.8	568.2	573.7
145°	551.7	552.6	556.3	560.0	563.6	563.6	564.5	569.1	576.4	583.7	589.2
147.5°	568.2	569.1	571.8	575.5	578.2	579.1	581.0	582.8	590.1	597.4	603.8
150°	582.8	583.7	585.5	589.2	591.0	592.8	594.7	595.6	601.1	607.5	614.8
152.5°	595.6	596.5	598.3	601.1	602.9	604.7	606.5	609.3	612.0	618.4	623.0
155°	608.4	609.3	610.2	612.9	614.8	615.7	616.6	620.2	623.0	626.6	631.2
157.5°	619.3	619.3	620.2	622.1	623.9	623.9	624.8	628.5	631.2	634.9	637.6
160°	628.5	628.5	629.4	631.2	631.2	632.1	633.0	635.8	637.6	642.2	645.8
162.5°	636.7	635.8	636.7	637.6	637.6	637.6	638.5	640.3	643.1	646.7	650.4
165°	643.1	643.1	643.1	644.0	644.0	643.1	643.1	644.9	646.7	649.5	652.2
167.5°	648.6	648.6	647.6	648.6	647.6	647.6	646.7	647.6	648.6	651.3	653.1
170°	653.1	652.2	652.2	652.2	651.3	650.4	650.4	650.4	650.4	652.2	654.0
172.5°	656.8	655.9	655.0	655.0	653.1	652.2	652.2	651.3	651.3	652.2	653.1
175°	657.7	656.8	655.9	655.9	654.0	653.1	652.2	652.2	651.3	652.2	653.1
177.5°	659.5	658.6	656.8	656.8	655.0	653.1	653.1	652.2	651.3	652.2	652.2
180°	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4



TEST NUMBER: P395542

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5	364.5
2.5°	366.3	366.3	365.4	364.5	364.5	363.6	362.6	361.7	360.8	359.9
5°	366.3	365.4	364.5	364.5	363.6	363.6	363.6	362.6	361.7	361.7
7.5°	366.3	366.3	365.4	364.5	364.5	364.5	364.5	364.5	363.6	363.6
10°	366.3	365.4	365.4	365.4	364.5	365.4	365.4	364.5	364.5	363.6
12.5°	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4	365.4	364.5
15°	363.6	364.5	364.5	365.4	365.4	365.4	366.3	366.3	365.4	365.4
17.5°	362.6	363.6	364.5	365.4	365.4	365.4	366.3	366.3	366.3	366.3
20°	360.8	361.7	362.6	363.6	363.6	364.5	364.5	365.4	365.4	365.4
22.5°	357.2	358.1	359.9	360.8	361.7	362.6	363.6	363.6	363.6	363.6
25°	353.5	355.3	356.3	358.1	359.0	359.9	360.8	360.8	360.8	361.7
27.5°	348.9	350.8	353.5	354.4	355.3	356.3	357.2	358.1	358.1	358.1
30°	343.5	346.2	348.0	349.9	350.8	351.7	352.6	352.6	353.5	353.5
32.5°	337.1	339.8	341.6	343.5	344.4	345.3	347.1	347.1	348.0	348.0
35°	328.8	331.6	334.3	336.2	337.1	338.0	339.8	340.7	340.7	340.7
37.5°	320.6	323.4	326.1	328.8	329.8	330.7	332.5	332.5	333.4	333.4
40°	310.6	313.3	316.1	318.8	318.8	320.6	321.5	322.5	323.4	323.4
42.5°	300.5	303.3	305.1	307.8	308.8	309.7	310.6	312.4	312.4	313.3
45°	288.7	291.4	293.2	296.0	296.9	297.8	299.6	300.5	301.4	301.4
47.5°	275.9	277.7	279.5	282.3	284.1	285.0	285.9	286.8	287.7	286.8
50°	261.3	263.1	265.8	268.6	269.5	270.4	272.2	272.2	273.1	273.1
52.5°	245.7	248.5	250.3	253.0	253.9	254.9	256.7	256.7	257.6	257.6
55°	228.4	230.2	232.0	236.6	237.5	238.4	240.2	240.2	241.2	242.1
57.5°	211.9	212.8	215.6	217.4	219.2	219.2	220.1	221.1	222.0	222.0
60°	194.6	195.5	197.3	200.0	200.0	201.0	202.8	202.8	203.7	203.7
62.5°	176.3	178.1	180.0	182.7	181.8	182.7	184.5	184.5	185.4	185.4
65°	158.0	158.9	160.8	162.6	163.5	163.5	164.4	165.3	166.3	166.3
67.5°	138.8	140.7	141.6	144.3	143.4	144.3	145.2	145.2	146.2	146.2
70°	120.6	121.5	123.3	124.2	124.2	125.1	126.1	126.1	126.1	127.0
72.5°	102.3	103.2	104.1	105.0	105.0	106.0	106.9	106.9	107.8	107.8
75°	83.1	85.0	85.9	87.7	86.8	87.7	89.5	89.5	89.5	89.5
77.5°	66.7	67.6	69.4	70.3	70.3	70.3	72.2	71.3	72.2	72.2
80°	50.2	51.2	53.0	53.9	53.9	54.8	55.7	55.7	55.7	56.6
82.5°	35.6	37.5	39.3	40.2	40.2	41.1	42.0	42.0	42.9	42.9
85°	24.7	26.5	28.3	28.3	29.2	30.1	31.1	31.1	31.1	31.1
87.5°	16.4	17.4	18.3	19.2	20.1	20.1	21.0	21.0	21.9	21.9
90°	9.1	10.0	11.0	11.9	11.9	12.8	12.8	13.7	13.7	13.7
92.5°	12.8	12.8	13.7	14.6	14.6	14.6	14.6	15.5	15.5	15.5
95°	27.4	28.3	28.3	30.1	30.1	30.1	31.1	31.1	31.1	31.1
97.5°	53.0	53.0	53.0	54.8	54.8	54.8	55.7	55.7	55.7	56.6
100°	83.1	84.0	84.0	86.8	85.9	87.7	87.7	87.7	87.7	88.6
102.5°	116.9	118.8	119.7	122.4	122.4	122.4	124.2	123.3	124.2	124.2
105°	153.5	155.3	156.2	158.9	160.8	160.8	162.6	161.7	162.6	163.5
107.5°	190.0	192.7	194.6	197.3	199.1	200.0	200.0	201.0	201.9	202.8
110°	227.5	230.2	234.8	237.5	238.4	240.2	241.2	242.1	243.0	244.8



TEST NUMBER: P395542

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	266.7	269.5	273.1	276.8	275.9	278.6	280.4	281.3	282.3	281.3
115°	302.4	306.0	309.7	313.3	313.3	315.1	318.8	319.7	319.7	321.5
117.5°	336.2	340.7	344.4	348.0	348.9	350.8	353.5	356.3	356.3	358.1
120°	369.0	374.5	378.2	381.8	383.7	384.6	387.3	391.0	391.0	391.0
122.5°	400.1	404.7	409.2	412.9	414.7	416.5	418.4	422.9	422.9	424.8
125°	429.3	434.8	439.4	443.0	444.9	446.7	450.3	453.1	454.0	454.0
127.5°	456.7	462.2	466.8	471.3	472.3	474.1	477.7	481.4	482.3	483.2
130°	482.3	487.8	492.4	496.9	498.8	499.7	504.2	507.0	508.8	509.7
132.5°	505.1	510.6	515.2	519.8	521.6	523.4	526.2	530.7	531.6	531.6
135°	526.2	531.6	536.2	541.7	542.6	544.4	548.1	550.8	552.6	553.6
137.5°	545.3	550.8	556.3	560.9	562.7	563.6	567.3	570.9	572.7	573.7
140°	562.7	568.2	573.7	577.3	578.2	581.0	583.7	587.4	589.2	590.1
142.5°	579.1	583.7	588.3	592.8	593.8	595.6	598.3	602.0	603.8	604.7
145°	593.8	598.3	602.0	605.6	606.5	608.4	611.1	613.9	615.7	616.6
147.5°	607.5	611.1	614.8	617.5	618.4	620.2	622.1	623.9	625.7	626.6
150°	619.3	621.2	624.8	626.6	627.6	629.4	631.2	633.0	634.9	635.8
152.5°	628.5	631.2	633.0	635.8	636.7	637.6	639.4	641.3	643.1	643.1
155°	635.8	638.5	640.3	643.1	644.0	644.9	646.7	647.6	649.5	649.5
157.5°	641.3	644.0	645.8	647.6	648.6	649.5	650.4	652.2	654.0	654.0
160°	647.6	648.6	649.5	651.3	651.3	652.2	653.1	654.0	655.9	655.9
162.5°	653.1	654.0	652.2	653.1	652.2	653.1	654.0	655.0	655.9	655.9
165°	655.0	656.8	655.9	656.8	656.8	656.8	656.8	657.7	657.7	657.7
167.5°	655.0	656.8	655.9	655.9	656.8	656.8	657.7	658.6	658.6	658.6
170°	655.0	655.9	655.0	654.0	655.0	655.0	655.0	655.9	655.9	655.9
172.5°	654.0	655.0	653.1	652.2	652.2	652.2	651.3	651.3	650.4	650.4
175°	653.1	653.1	651.3	650.4	650.4	650.4	648.6	647.6	646.7	645.8
177.5°	652.2	652.2	649.5	648.6	648.6	647.6	647.6	645.8	645.8	644.9
180°	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4

(END OF REPORT)