

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: P395543

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395543
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 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3444.6 lumens
Efficiency: N/A
Efficacy: 124.4 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

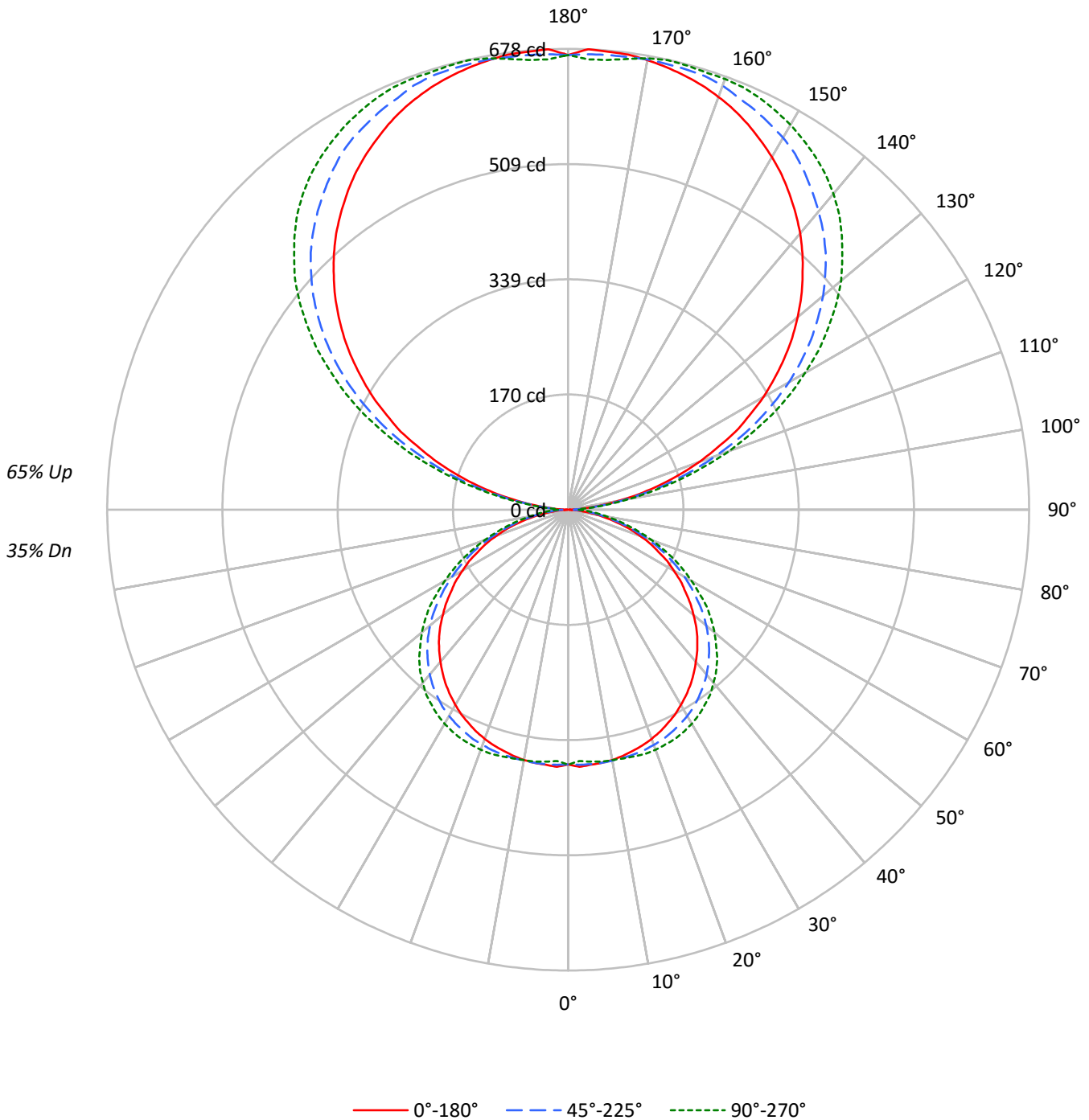
Input Watts (W): 27.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

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°	2060	2060	2060
5°	2071	2026	1994
10°	2071	1998	1971
15°	2067	1981	1963
20°	2067	1964	1960
25°	2061	1946	1953
30°	2054	1928	1935
35°	2044	1897	1906
40°	2024	1857	1864
45°	2003	1800	1807
50°	1957	1720	1719
55°	1901	1611	1616
60°	1837	1485	1460
65°	1746	1330	1297
70°	1622	1134	1096
75°	1411	901	872
80°	1102	640	637
85°	598	367	418



TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	1.0
10°-20°	105.1	3.1
20°-30°	165.7	4.8
30°-40°	208.3	6.0
40°-50°	224.0	6.5
50°-60°	206.0	6.0
60°-70°	157.8	4.6
70°-80°	89.9	2.6
80°-90°	28.1	0.8
90°-100°	37.5	1.1
100°-110°	163.2	4.7
110°-120°	298.9	8.7
120°-130°	385.2	11.2
130°-140°	409.9	11.9
140°-150°	377.1	10.9
150°-160°	298.8	8.7
160°-170°	189.2	5.5
170°-180°	64.1	1.9
0°-30°	306.6	8.9
0°-40°	514.9	14.9
0°-60°	944.9	27.4
0°-90°	1220.7	35.4
90°-120°	499.6	14.5
90°-150°	1671.9	48.5
90°-180°	2224.0	64.6
0°-180°	3444.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	375	375	375	375	375	
5°	377	373	376	374	372	36
15°	367	365	373	376	376	104
25°	347	348	361	369	372	160
35°	314	318	335	347	350	196
45°	269	275	293	305	310	207
55°	210	219	232	244	249	189
65°	146	151	161	168	171	145
75°	77	79	84	89	92	81
85°	14	18	24	30	32	18
90°	1	3	8	12	14	2
95°	25	24	27	31	32	32
105°	138	145	156	165	168	147
115°	272	284	306	322	331	266
125°	388	405	436	458	467	346
135°	488	504	535	558	569	376
145°	567	580	606	624	634	355
155°	626	633	649	662	668	288
165°	661	661	671	675	676	187
175°	676	672	672	669	664	64
180°	669	669	669	669	669	



TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8
2.5°	378.6	377.6	376.7	374.8	374.8	373.9	373.9	373.9	373.9	374.8	375.7
5°	376.7	376.7	375.7	373.9	373.9	372.9	372.9	373.9	372.9	373.9	375.7
7.5°	375.7	375.7	374.8	372.9	372.9	372.9	372.9	372.9	372.9	373.9	375.7
10°	373.9	373.9	372.0	371.0	371.0	371.0	371.0	372.0	372.0	372.9	374.8
12.5°	371.0	370.1	369.2	368.2	368.2	368.2	369.2	370.1	370.1	372.0	373.9
15°	367.3	367.3	366.3	365.4	365.4	365.4	366.3	367.3	368.2	370.1	372.9
17.5°	363.5	363.5	362.6	362.6	362.6	362.6	363.5	364.5	366.3	368.2	371.0
20°	358.8	358.8	357.9	357.9	357.9	358.8	358.8	360.7	362.6	365.4	368.2
22.5°	353.2	353.2	353.2	352.3	353.2	354.1	355.1	356.9	358.8	361.6	365.4
25°	346.6	346.6	346.6	346.6	347.6	347.6	349.4	351.3	353.2	356.9	360.7
27.5°	340.0	340.0	340.0	339.1	341.0	341.9	342.9	345.7	347.6	352.3	356.0
30°	331.6	331.6	331.6	332.5	333.5	334.4	336.3	339.1	341.0	345.7	350.4
32.5°	323.1	323.1	323.1	323.1	326.0	326.9	327.8	330.6	334.4	339.1	343.8
35°	313.7	313.7	313.7	314.7	316.6	317.5	319.4	322.2	326.0	330.6	335.3
37.5°	303.4	304.3	304.3	305.3	307.2	309.0	310.9	313.7	317.5	322.2	326.9
40°	292.1	293.1	293.1	294.0	295.9	297.8	299.6	303.4	307.2	311.9	316.6
42.5°	280.9	281.8	281.8	283.7	285.6	287.4	289.3	293.1	296.8	301.5	305.3
45°	268.7	269.6	269.6	271.5	274.3	275.2	278.0	281.8	285.6	289.3	293.1
47.5°	255.5	256.4	256.4	258.3	261.1	263.0	264.9	268.7	271.5	276.2	279.9
50°	240.5	241.4	242.3	244.2	248.0	249.9	251.7	254.6	258.3	261.1	264.9
52.5°	226.4	226.4	227.3	229.2	232.0	233.9	234.8	237.7	242.3	246.1	249.9
55°	210.4	211.4	212.3	214.2	217.0	218.9	219.8	222.6	225.4	228.3	232.0
57.5°	196.3	196.3	197.3	199.1	202.0	202.9	203.8	205.7	209.5	212.3	215.1
60°	179.4	180.4	181.3	183.2	185.1	186.9	186.9	189.7	192.6	195.4	197.3
62.5°	164.4	164.4	165.3	167.2	168.1	170.0	170.0	172.8	174.7	177.5	179.4
65°	146.5	147.5	148.4	149.4	151.2	151.2	152.2	154.1	155.9	157.8	160.6
67.5°	130.6	130.6	131.5	132.4	133.4	133.4	134.3	136.2	138.1	140.0	141.8
70°	112.7	113.7	113.7	113.7	114.6	115.5	116.5	117.4	119.3	120.2	122.1
72.5°	94.9	94.9	95.8	95.8	96.8	97.7	98.6	99.6	100.5	102.4	103.3
75°	77.0	77.0	78.0	78.0	78.9	78.9	78.9	80.8	81.7	83.6	84.5
77.5°	59.2	60.1	60.1	60.1	61.1	62.0	62.0	62.9	64.8	65.8	66.7
80°	43.2	43.2	43.2	43.2	44.1	45.1	46.0	46.0	47.9	49.8	50.7
82.5°	27.2	27.2	28.2	29.1	29.1	30.1	31.0	31.9	33.8	34.8	35.7
85°	14.1	14.1	15.0	16.0	16.9	17.8	17.8	18.8	20.7	22.5	23.5
87.5°	4.7	5.6	5.6	6.6	7.5	8.5	9.4	10.3	12.2	14.1	15.0
90°	0.9	0.9	0.9	1.9	2.8	2.8	3.8	4.7	5.6	6.6	8.5
92.5°	8.5	8.5	7.5	8.5	8.5	8.5	8.5	9.4	10.3	10.3	12.2
95°	25.4	24.4	24.4	24.4	24.4	24.4	24.4	25.4	26.3	26.3	27.2
97.5°	48.8	48.8	47.9	47.9	48.8	48.8	48.8	49.8	51.7	50.7	52.6
100°	76.1	76.1	75.1	76.1	77.0	78.0	79.8	79.8	81.7	81.7	84.5
102.5°	107.1	107.1	106.1	108.0	109.0	110.8	110.8	112.7	115.5	115.5	119.3
105°	138.1	139.0	139.0	140.9	142.8	144.7	144.7	147.5	151.2	151.2	155.9
107.5°	171.9	172.8	172.8	174.7	176.6	178.5	179.4	183.2	186.9	187.9	193.5
110°	204.8	205.7	206.7	208.5	210.4	213.2	215.1	218.9	223.6	225.4	230.1



TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	235.8	239.5	240.5	243.3	246.1	248.9	250.8	255.5	261.1	264.0	269.6
115°	271.5	273.3	274.3	277.1	280.9	283.7	285.6	290.3	295.9	299.6	306.2
117.5°	300.6	305.3	306.2	309.0	312.8	315.6	317.5	323.1	329.7	334.4	341.0
120°	331.6	335.3	339.1	341.0	343.8	347.6	349.4	355.1	362.6	367.3	374.8
122.5°	359.8	363.5	367.3	370.1	373.9	375.7	378.6	385.1	392.6	398.3	405.8
125°	387.9	392.6	395.5	398.3	403.0	404.9	407.7	414.2	421.8	428.3	435.9
127.5°	415.2	418.0	422.7	424.6	429.3	431.2	434.0	441.5	449.0	455.6	463.1
130°	440.6	444.3	448.1	449.0	454.6	457.5	460.3	466.9	475.3	481.9	489.4
132.5°	465.0	466.9	471.5	474.4	479.1	481.9	484.7	490.3	498.8	505.4	512.9
135°	487.5	489.4	495.0	497.9	500.7	503.5	507.2	512.9	521.3	527.9	535.4
137.5°	510.1	511.9	517.6	520.4	522.3	525.1	527.9	533.5	542.0	548.6	555.2
140°	530.7	532.6	536.4	540.1	542.0	543.9	546.7	552.3	559.8	566.4	573.0
142.5°	549.5	551.4	555.2	558.9	561.7	561.7	564.5	569.2	577.7	584.3	589.9
145°	567.4	568.3	572.1	575.8	579.6	579.6	580.5	585.2	592.7	600.2	605.9
147.5°	584.3	585.2	588.0	591.8	594.6	595.5	597.4	599.3	606.8	614.3	620.9
150°	599.3	600.2	602.1	605.9	607.8	609.6	611.5	612.5	618.1	624.7	632.2
152.5°	612.5	613.4	615.3	618.1	620.0	621.8	623.7	626.5	629.4	635.9	640.6
155°	625.6	626.5	627.5	630.3	632.2	633.1	634.1	637.8	640.6	644.4	649.1
157.5°	636.9	636.9	637.8	639.7	641.6	641.6	642.5	646.3	649.1	652.8	655.7
160°	646.3	646.3	647.2	649.1	649.1	650.0	651.0	653.8	655.7	660.4	664.1
162.5°	654.7	653.8	654.7	655.7	655.7	655.7	656.6	658.5	661.3	665.1	668.8
165°	661.3	661.3	661.3	662.2	662.2	661.3	661.3	663.2	665.1	667.9	670.7
167.5°	666.9	666.9	666.0	666.9	666.0	666.0	665.1	666.0	666.9	669.7	671.6
170°	671.6	670.7	670.7	670.7	669.7	668.8	668.8	668.8	668.8	670.7	672.6
172.5°	675.4	674.4	673.5	673.5	671.6	670.7	670.7	669.7	669.7	670.7	671.6
175°	676.3	675.4	674.4	674.4	672.6	671.6	670.7	670.7	669.7	670.7	671.6
177.5°	678.2	677.3	675.4	675.4	673.5	671.6	671.6	670.7	669.7	670.7	670.7
180°	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8



TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8
2.5°	376.7	376.7	375.7	374.8	374.8	373.9	372.9	372.0	371.0	370.1
5°	376.7	375.7	374.8	374.8	373.9	373.9	373.9	372.9	372.0	372.0
7.5°	376.7	376.7	375.7	374.8	374.8	374.8	374.8	374.8	373.9	373.9
10°	376.7	375.7	375.7	375.7	374.8	375.7	375.7	374.8	374.8	373.9
12.5°	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	374.8
15°	373.9	374.8	374.8	375.7	375.7	375.7	376.7	376.7	375.7	375.7
17.5°	372.9	373.9	374.8	375.7	375.7	375.7	376.7	376.7	376.7	376.7
20°	371.0	372.0	372.9	373.9	373.9	374.8	374.8	375.7	375.7	375.7
22.5°	367.3	368.2	370.1	371.0	372.0	372.9	373.9	373.9	373.9	373.9
25°	363.5	365.4	366.3	368.2	369.2	370.1	371.0	371.0	371.0	372.0
27.5°	358.8	360.7	363.5	364.5	365.4	366.3	367.3	368.2	368.2	368.2
30°	353.2	356.0	357.9	359.8	360.7	361.6	362.6	362.6	363.5	363.5
32.5°	346.6	349.4	351.3	353.2	354.1	355.1	356.9	356.9	357.9	357.9
35°	338.2	341.0	343.8	345.7	346.6	347.6	349.4	350.4	350.4	350.4
37.5°	329.7	332.5	335.3	338.2	339.1	340.0	341.9	341.9	342.9	342.9
40°	319.4	322.2	325.0	327.8	327.8	329.7	330.6	331.6	332.5	332.5
42.5°	309.0	311.9	313.7	316.6	317.5	318.4	319.4	321.3	321.3	322.2
45°	296.8	299.6	301.5	304.3	305.3	306.2	308.1	309.0	310.0	310.0
47.5°	283.7	285.6	287.4	290.3	292.1	293.1	294.0	295.0	295.9	295.0
50°	268.7	270.5	273.3	276.2	277.1	278.0	279.9	279.9	280.9	280.9
52.5°	252.7	255.5	257.4	260.2	261.1	262.1	264.0	264.0	264.9	264.9
55°	234.8	236.7	238.6	243.3	244.2	245.2	247.0	247.0	248.0	248.9
57.5°	217.9	218.9	221.7	223.6	225.4	225.4	226.4	227.3	228.3	228.3
60°	200.1	201.0	202.9	205.7	205.7	206.7	208.5	208.5	209.5	209.5
62.5°	181.3	183.2	185.1	187.9	186.9	187.9	189.7	189.7	190.7	190.7
65°	162.5	163.4	165.3	167.2	168.1	168.1	169.1	170.0	171.0	171.0
67.5°	142.8	144.7	145.6	148.4	147.5	148.4	149.4	149.4	150.3	150.3
70°	124.0	124.9	126.8	127.8	127.8	128.7	129.6	129.6	129.6	130.6
72.5°	105.2	106.1	107.1	108.0	108.0	109.0	109.9	109.9	110.8	110.8
75°	85.5	87.4	88.3	90.2	89.2	90.2	92.1	92.1	92.1	92.1
77.5°	68.6	69.5	71.4	72.3	72.3	72.3	74.2	73.3	74.2	74.2
80°	51.7	52.6	54.5	55.4	55.4	56.4	57.3	57.3	57.3	58.2
82.5°	36.6	38.5	40.4	41.3	41.3	42.3	43.2	43.2	44.1	44.1
85°	25.4	27.2	29.1	29.1	30.1	31.0	31.9	31.9	31.9	31.9
87.5°	16.9	17.8	18.8	19.7	20.7	20.7	21.6	21.6	22.5	22.5
90°	9.4	10.3	11.3	12.2	12.2	13.2	13.2	14.1	14.1	14.1
92.5°	13.2	13.2	14.1	15.0	15.0	15.0	15.0	16.0	16.0	16.0
95°	28.2	29.1	29.1	31.0	31.0	31.0	31.9	31.9	31.9	31.9
97.5°	54.5	54.5	54.5	56.4	56.4	56.4	57.3	57.3	57.3	58.2
100°	85.5	86.4	86.4	89.2	88.3	90.2	90.2	90.2	90.2	91.1
102.5°	120.2	122.1	123.1	125.9	125.9	125.9	127.8	126.8	127.8	127.8
105°	157.8	159.7	160.6	163.4	165.3	165.3	167.2	166.3	167.2	168.1
107.5°	195.4	198.2	200.1	202.9	204.8	205.7	205.7	206.7	207.6	208.5
110°	233.9	236.7	241.4	244.2	245.2	247.0	248.0	248.9	249.9	251.7



TEST NUMBER: P395543

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	274.3	277.1	280.9	284.6	283.7	286.5	288.4	289.3	290.3	289.3
115°	310.9	314.7	318.4	322.2	322.2	324.1	327.8	328.8	328.8	330.6
117.5°	345.7	350.4	354.1	357.9	358.8	360.7	363.5	366.3	366.3	368.2
120°	379.5	385.1	388.9	392.6	394.5	395.5	398.3	402.0	402.0	402.0
122.5°	411.4	416.1	420.8	424.6	426.5	428.3	430.2	434.9	434.9	436.8
125°	441.5	447.1	451.8	455.6	457.5	459.3	463.1	465.9	466.9	466.9
127.5°	469.7	475.3	480.0	484.7	485.6	487.5	491.3	495.0	496.0	496.9
130°	496.0	501.6	506.3	511.0	512.9	513.8	518.5	521.3	523.2	524.2
132.5°	519.5	525.1	529.8	534.5	536.4	538.2	541.1	545.8	546.7	546.7
135°	541.1	546.7	551.4	557.0	558.0	559.8	563.6	566.4	568.3	569.2
137.5°	560.8	566.4	572.1	576.8	578.6	579.6	583.3	587.1	589.0	589.9
140°	578.6	584.3	589.9	593.7	594.6	597.4	600.2	604.0	605.9	606.8
142.5°	595.5	600.2	604.9	609.6	610.6	612.5	615.3	619.0	620.9	621.8
145°	610.6	615.3	619.0	622.8	623.7	625.6	628.4	631.2	633.1	634.1
147.5°	624.7	628.4	632.2	635.0	635.9	637.8	639.7	641.6	643.4	644.4
150°	636.9	638.8	642.5	644.4	645.3	647.2	649.1	651.0	652.8	653.8
152.5°	646.3	649.1	651.0	653.8	654.7	655.7	657.5	659.4	661.3	661.3
155°	653.8	656.6	658.5	661.3	662.2	663.2	665.1	666.0	667.9	667.9
157.5°	659.4	662.2	664.1	666.0	666.9	667.9	668.8	670.7	672.6	672.6
160°	666.0	666.9	667.9	669.7	669.7	670.7	671.6	672.6	674.4	674.4
162.5°	671.6	672.6	670.7	671.6	670.7	671.6	672.6	673.5	674.4	674.4
165°	673.5	675.4	674.4	675.4	675.4	675.4	675.4	676.3	676.3	676.3
167.5°	673.5	675.4	674.4	674.4	675.4	675.4	676.3	677.3	677.3	677.3
170°	673.5	674.4	673.5	672.6	673.5	673.5	673.5	674.4	674.4	674.4
172.5°	672.6	673.5	671.6	670.7	670.7	670.7	669.7	669.7	668.8	668.8
175°	671.6	671.6	669.7	668.8	668.8	668.8	666.9	666.0	665.1	664.1
177.5°	670.7	670.7	667.9	666.9	666.9	666.0	666.0	664.1	664.1	663.2
180°	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8	668.8

(END OF REPORT)