

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: P395544

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395544
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 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
4000 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: 3565.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

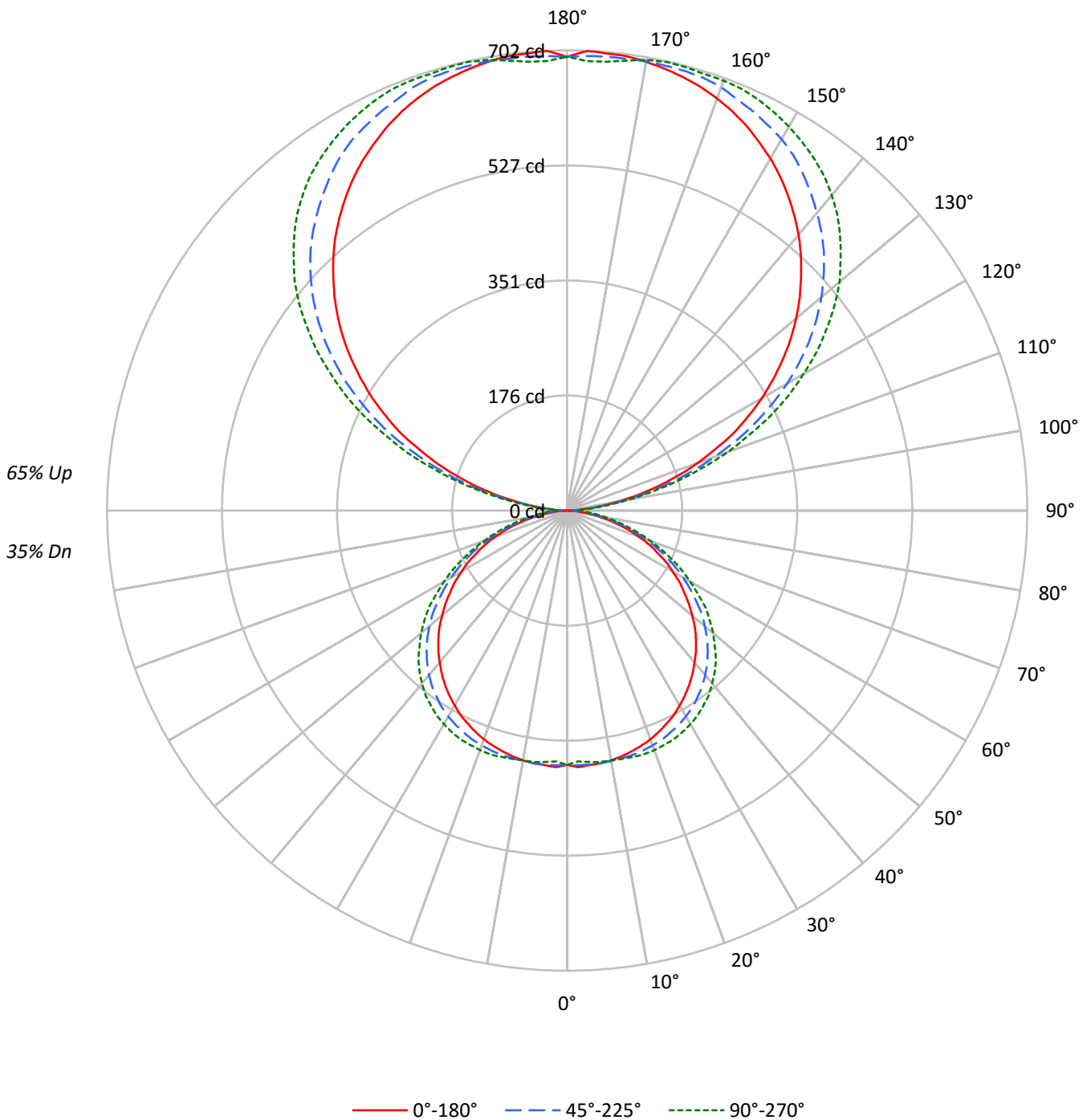
Input Watts (W): 28
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395544

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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	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°	2132	2132	2132
5°	2143	2097	2064
10°	2143	2068	2040
15°	2139	2050	2032
20°	2139	2033	2029
25°	2133	2014	2021
30°	2126	1995	2002
35°	2116	1964	1973
40°	2094	1922	1930
45°	2073	1863	1870
50°	2026	1781	1779
55°	1968	1668	1672
60°	1901	1537	1511
65°	1808	1377	1342
70°	1679	1174	1133
75°	1461	933	902
80°	1140	663	660
85°	619	380	434



TEST NUMBER: P395544

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.0
10°-20°	108.8	3.1
20°-30°	171.5	4.8
30°-40°	215.6	6.0
40°-50°	231.8	6.5
50°-60°	213.2	6.0
60°-70°	163.4	4.6
70°-80°	93.0	2.6
80°-90°	29.0	0.8
90°-100°	38.8	1.1
100°-110°	169.0	4.7
110°-120°	309.3	8.7
120°-130°	398.7	11.2
130°-140°	424.2	11.9
140°-150°	390.3	10.9
150°-160°	309.2	8.7
160°-170°	195.8	5.5
170°-180°	66.3	1.9
0°-30°	317.3	8.9
0°-40°	532.9	14.9
0°-60°	977.9	27.4
0°-90°	1263.4	35.4
90°-120°	517.1	14.5
90°-150°	1730.4	48.5
90°-180°	2302.0	64.6
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	388	388	388	388	388	
5°	390	386	389	387	385	37
15°	380	378	386	389	389	107
25°	359	360	373	382	385	165
35°	325	329	347	359	363	203
45°	278	285	303	316	321	214
55°	218	226	240	253	258	195
65°	152	156	166	174	177	150
75°	80	82	88	92	95	84
85°	15	18	24	31	33	18
90°	1	3	9	13	15	2
95°	26	25	28	32	33	33
105°	143	150	161	171	174	152
115°	281	294	317	334	342	276
125°	402	419	451	474	483	359
135°	505	521	554	578	589	389
145°	587	600	627	646	656	367
155°	648	655	672	685	691	298
165°	684	684	694	699	700	193
175°	700	695	695	692	687	67
180°	692	692	692	692	692	



TEST NUMBER: P395544

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	391.8	390.8	389.8	387.9	387.9	386.9	386.9	386.9	386.9	387.9	388.9
5°	389.8	389.8	388.9	386.9	386.9	386.0	386.0	386.9	386.0	386.9	388.9
7.5°	388.9	388.9	387.9	386.0	386.0	386.0	386.0	386.0	386.0	386.9	388.9
10°	386.9	386.9	385.0	384.0	384.0	384.0	384.0	385.0	385.0	386.0	387.9
12.5°	384.0	383.0	382.1	381.1	381.1	381.1	382.1	383.0	383.0	385.0	386.9
15°	380.1	380.1	379.1	378.2	378.2	378.2	379.1	380.1	381.1	383.0	386.0
17.5°	376.2	376.2	375.3	375.3	375.3	375.3	376.2	377.2	379.1	381.1	384.0
20°	371.4	371.4	370.4	370.4	370.4	371.4	371.4	373.3	375.3	378.2	381.1
22.5°	365.5	365.5	365.5	364.6	365.5	366.5	367.5	369.4	371.4	374.3	378.2
25°	358.7	358.7	358.7	358.7	359.7	359.7	361.7	363.6	365.5	369.4	373.3
27.5°	351.9	351.9	351.9	351.0	352.9	353.9	354.8	357.8	359.7	364.6	368.5
30°	343.2	343.2	343.2	344.2	345.1	346.1	348.0	351.0	352.9	357.8	362.6
32.5°	334.4	334.4	334.4	334.4	337.3	338.3	339.3	342.2	346.1	351.0	355.8
35°	324.7	324.7	324.7	325.7	327.6	328.6	330.5	333.5	337.3	342.2	347.1
37.5°	314.0	315.0	315.0	316.0	317.9	319.8	321.8	324.7	328.6	333.5	338.3
40°	302.3	303.3	303.3	304.3	306.2	308.2	310.1	314.0	317.9	322.8	327.6
42.5°	290.7	291.7	291.7	293.6	295.5	297.5	299.4	303.3	307.2	312.1	316.0
45°	278.0	279.0	279.0	281.0	283.9	284.8	287.8	291.7	295.5	299.4	303.3
47.5°	264.4	265.4	265.4	267.3	270.3	272.2	274.2	278.0	281.0	285.8	289.7
50°	248.9	249.8	250.8	252.8	256.7	258.6	260.5	263.5	267.3	270.3	274.2
52.5°	234.3	234.3	235.3	237.2	240.1	242.1	243.0	246.0	250.8	254.7	258.6
55°	217.8	218.7	219.7	221.7	224.6	226.5	227.5	230.4	233.3	236.2	240.1
57.5°	203.2	203.2	204.2	206.1	209.0	210.0	211.0	212.9	216.8	219.7	222.6
60°	185.7	186.7	187.6	189.6	191.5	193.5	193.5	196.4	199.3	202.2	204.2
62.5°	170.1	170.1	171.1	173.0	174.0	176.0	176.0	178.9	180.8	183.7	185.7
65°	151.7	152.6	153.6	154.6	156.5	156.5	157.5	159.4	161.4	163.3	166.2
67.5°	135.1	135.1	136.1	137.1	138.0	138.0	139.0	141.0	142.9	144.9	146.8
70°	116.7	117.6	117.6	117.6	118.6	119.6	120.6	121.5	123.5	124.4	126.4
72.5°	98.2	98.2	99.2	99.2	100.1	101.1	102.1	103.1	104.0	106.0	106.9
75°	79.7	79.7	80.7	80.7	81.7	81.7	81.7	83.6	84.6	86.5	87.5
77.5°	61.2	62.2	62.2	62.2	63.2	64.2	64.2	65.1	67.1	68.1	69.0
80°	44.7	44.7	44.7	44.7	45.7	46.7	47.6	47.6	49.6	51.5	52.5
82.5°	28.2	28.2	29.2	30.1	30.1	31.1	32.1	33.1	35.0	36.0	36.9
85°	14.6	14.6	15.6	16.5	17.5	18.5	18.5	19.4	21.4	23.3	24.3
87.5°	4.9	5.8	5.8	6.8	7.8	8.7	9.7	10.7	12.6	14.6	15.6
90°	1.0	1.0	1.0	1.9	2.9	2.9	3.9	4.9	5.8	6.8	8.7
92.5°	8.7	8.7	7.8	8.7	8.7	8.7	8.7	9.7	10.7	10.7	12.6
95°	26.2	25.3	25.3	25.3	25.3	25.3	25.3	26.2	27.2	27.2	28.2
97.5°	50.6	50.6	49.6	49.6	50.6	50.6	50.6	51.5	53.5	52.5	54.4
100°	78.7	78.7	77.8	78.7	79.7	80.7	82.6	82.6	84.6	84.6	87.5
102.5°	110.8	110.8	109.9	111.8	112.8	114.7	114.7	116.7	119.6	119.6	123.5
105°	142.9	143.9	143.9	145.8	147.8	149.7	149.7	152.6	156.5	156.5	161.4
107.5°	177.9	178.9	178.9	180.8	182.8	184.7	185.7	189.6	193.5	194.4	200.3
110°	211.9	212.9	213.9	215.8	217.8	220.7	222.6	226.5	231.4	233.3	238.2



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CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	244.0	247.9	248.9	251.8	254.7	257.6	259.6	264.4	270.3	273.2	279.0
115°	281.0	282.9	283.9	286.8	290.7	293.6	295.5	300.4	306.2	310.1	316.9
117.5°	311.1	316.0	316.9	319.8	323.7	326.7	328.6	334.4	341.2	346.1	352.9
120°	343.2	347.1	351.0	352.9	355.8	359.7	361.7	367.5	375.3	380.1	387.9
122.5°	372.3	376.2	380.1	383.0	386.9	388.9	391.8	398.6	406.4	412.2	420.0
125°	401.5	406.4	409.3	412.2	417.1	419.0	421.9	428.7	436.5	443.3	451.1
127.5°	429.7	432.6	437.5	439.4	444.3	446.2	449.1	456.9	464.7	471.5	479.3
130°	456.0	459.8	463.7	464.7	470.5	473.5	476.4	483.2	491.9	498.7	506.5
132.5°	481.2	483.2	488.0	490.9	495.8	498.7	501.6	507.5	516.2	523.0	530.8
135°	504.6	506.5	512.3	515.3	518.2	521.1	525.0	530.8	539.6	546.4	554.1
137.5°	527.9	529.8	535.7	538.6	540.5	543.4	546.4	552.2	560.9	567.8	574.6
140°	549.3	551.2	555.1	559.0	560.9	562.9	565.8	571.6	579.4	586.2	593.0
142.5°	568.7	570.7	574.6	578.4	581.4	581.4	584.3	589.1	597.9	604.7	610.5
145°	587.2	588.2	592.1	595.9	599.8	599.8	600.8	605.7	613.4	621.2	627.1
147.5°	604.7	605.7	608.6	612.5	615.4	616.4	618.3	620.2	628.0	635.8	642.6
150°	620.2	621.2	623.2	627.1	629.0	630.9	632.9	633.9	639.7	646.5	654.3
152.5°	633.9	634.8	636.8	639.7	641.6	643.6	645.5	648.4	651.4	658.2	663.0
155°	647.5	648.4	649.4	652.3	654.3	655.2	656.2	660.1	663.0	666.9	671.8
157.5°	659.1	659.1	660.1	662.1	664.0	664.0	665.0	668.9	671.8	675.7	678.6
160°	668.9	668.9	669.8	671.8	671.8	672.7	673.7	676.6	678.6	683.4	687.3
162.5°	677.6	676.6	677.6	678.6	678.6	678.6	679.6	681.5	684.4	688.3	692.2
165°	684.4	684.4	684.4	685.4	685.4	684.4	684.4	686.4	688.3	691.2	694.1
167.5°	690.2	690.2	689.3	690.2	689.3	689.3	688.3	689.3	690.2	693.2	695.1
170°	695.1	694.1	694.1	694.1	693.2	692.2	692.2	692.2	692.2	694.1	696.1
172.5°	699.0	698.0	697.1	697.1	695.1	694.1	694.1	693.2	693.2	694.1	695.1
175°	700.0	699.0	698.0	698.0	696.1	695.1	694.1	694.1	693.2	694.1	695.1
177.5°	701.9	700.9	699.0	699.0	697.1	695.1	695.1	694.1	693.2	694.1	694.1
180°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2



TEST NUMBER: P395544

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9	387.9
2.5°	389.8	389.8	388.9	387.9	387.9	386.9	386.0	385.0	384.0	383.0
5°	389.8	388.9	387.9	387.9	386.9	386.9	386.9	386.0	385.0	385.0
7.5°	389.8	389.8	388.9	387.9	387.9	387.9	387.9	387.9	386.9	386.9
10°	389.8	388.9	388.9	388.9	387.9	388.9	388.9	387.9	387.9	386.9
12.5°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	387.9
15°	386.9	387.9	387.9	388.9	388.9	388.9	389.8	389.8	388.9	388.9
17.5°	386.0	386.9	387.9	388.9	388.9	388.9	389.8	389.8	389.8	389.8
20°	384.0	385.0	386.0	386.9	386.9	387.9	387.9	388.9	388.9	388.9
22.5°	380.1	381.1	383.0	384.0	385.0	386.0	386.9	386.9	386.9	386.9
25°	376.2	378.2	379.1	381.1	382.1	383.0	384.0	384.0	384.0	385.0
27.5°	371.4	373.3	376.2	377.2	378.2	379.1	380.1	381.1	381.1	381.1
30°	365.5	368.5	370.4	372.3	373.3	374.3	375.3	375.3	376.2	376.2
32.5°	358.7	361.7	363.6	365.5	366.5	367.5	369.4	369.4	370.4	370.4
35°	350.0	352.9	355.8	357.8	358.7	359.7	361.7	362.6	362.6	362.6
37.5°	341.2	344.2	347.1	350.0	351.0	351.9	353.9	353.9	354.8	354.8
40°	330.5	333.5	336.4	339.3	339.3	341.2	342.2	343.2	344.2	344.2
42.5°	319.8	322.8	324.7	327.6	328.6	329.6	330.5	332.5	332.5	333.5
45°	307.2	310.1	312.1	315.0	316.0	316.9	318.9	319.8	320.8	320.8
47.5°	293.6	295.5	297.5	300.4	302.3	303.3	304.3	305.3	306.2	305.3
50°	278.0	280.0	282.9	285.8	286.8	287.8	289.7	289.7	290.7	290.7
52.5°	261.5	264.4	266.4	269.3	270.3	271.2	273.2	273.2	274.2	274.2
55°	243.0	245.0	246.9	251.8	252.8	253.7	255.7	255.7	256.7	257.6
57.5°	225.5	226.5	229.4	231.4	233.3	233.3	234.3	235.3	236.2	236.2
60°	207.1	208.0	210.0	212.9	212.9	213.9	215.8	215.8	216.8	216.8
62.5°	187.6	189.6	191.5	194.4	193.5	194.4	196.4	196.4	197.4	197.4
65°	168.2	169.2	171.1	173.0	174.0	174.0	175.0	176.0	176.9	176.9
67.5°	147.8	149.7	150.7	153.6	152.6	153.6	154.6	154.6	155.5	155.5
70°	128.3	129.3	131.2	132.2	132.2	133.2	134.2	134.2	134.2	135.1
72.5°	108.9	109.9	110.8	111.8	111.8	112.8	113.7	113.7	114.7	114.7
75°	88.5	90.4	91.4	93.3	92.4	93.3	95.3	95.3	95.3	95.3
77.5°	71.0	71.9	73.9	74.9	74.9	74.9	76.8	75.8	76.8	76.8
80°	53.5	54.4	56.4	57.4	57.4	58.3	59.3	59.3	59.3	60.3
82.5°	37.9	39.9	41.8	42.8	42.8	43.7	44.7	44.7	45.7	45.7
85°	26.2	28.2	30.1	30.1	31.1	32.1	33.1	33.1	33.1	33.1
87.5°	17.5	18.5	19.4	20.4	21.4	21.4	22.4	22.4	23.3	23.3
90°	9.7	10.7	11.7	12.6	12.6	13.6	13.6	14.6	14.6	14.6
92.5°	13.6	13.6	14.6	15.6	15.6	15.6	15.6	16.5	16.5	16.5
95°	29.2	30.1	30.1	32.1	32.1	32.1	33.1	33.1	33.1	33.1
97.5°	56.4	56.4	56.4	58.3	58.3	58.3	59.3	59.3	59.3	60.3
100°	88.5	89.4	89.4	92.4	91.4	93.3	93.3	93.3	93.3	94.3
102.5°	124.4	126.4	127.4	130.3	130.3	130.3	132.2	131.2	132.2	132.2
105°	163.3	165.3	166.2	169.2	171.1	171.1	173.0	172.1	173.0	174.0
107.5°	202.2	205.1	207.1	210.0	211.9	212.9	212.9	213.9	214.9	215.8
110°	242.1	245.0	249.8	252.8	253.7	255.7	256.7	257.6	258.6	260.5



TEST NUMBER: P395544

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	283.9	286.8	290.7	294.6	293.6	296.5	298.5	299.4	300.4	299.4
115°	321.8	325.7	329.6	333.5	333.5	335.4	339.3	340.3	340.3	342.2
117.5°	357.8	362.6	366.5	370.4	371.4	373.3	376.2	379.1	379.1	381.1
120°	392.8	398.6	402.5	406.4	408.3	409.3	412.2	416.1	416.1	416.1
122.5°	425.8	430.7	435.5	439.4	441.4	443.3	445.3	450.1	450.1	452.1
125°	456.9	462.8	467.6	471.5	473.5	475.4	479.3	482.2	483.2	483.2
127.5°	486.1	491.9	496.8	501.6	502.6	504.6	508.4	512.3	513.3	514.3
130°	513.3	519.1	524.0	528.9	530.8	531.8	536.6	539.6	541.5	542.5
132.5°	537.6	543.4	548.3	553.2	555.1	557.1	560.0	564.8	565.8	565.8
135°	560.0	565.8	570.7	576.5	577.5	579.4	583.3	586.2	588.2	589.1
137.5°	580.4	586.2	592.1	596.9	598.9	599.8	603.7	607.6	609.6	610.5
140°	598.9	604.7	610.5	614.4	615.4	618.3	621.2	625.1	627.1	628.0
142.5°	616.4	621.2	626.1	630.9	631.9	633.9	636.8	640.7	642.6	643.6
145°	631.9	636.8	640.7	644.6	645.5	647.5	650.4	653.3	655.2	656.2
147.5°	646.5	650.4	654.3	657.2	658.2	660.1	662.1	664.0	665.9	666.9
150°	659.1	661.1	665.0	666.9	667.9	669.8	671.8	673.7	675.7	676.6
152.5°	668.9	671.8	673.7	676.6	677.6	678.6	680.5	682.5	684.4	684.4
155°	676.6	679.6	681.5	684.4	685.4	686.4	688.3	689.3	691.2	691.2
157.5°	682.5	685.4	687.3	689.3	690.2	691.2	692.2	694.1	696.1	696.1
160°	689.3	690.2	691.2	693.2	693.2	694.1	695.1	696.1	698.0	698.0
162.5°	695.1	696.1	694.1	695.1	694.1	695.1	696.1	697.1	698.0	698.0
165°	697.1	699.0	698.0	699.0	699.0	699.0	699.0	700.0	700.0	700.0
167.5°	697.1	699.0	698.0	698.0	699.0	699.0	700.0	700.9	700.9	700.9
170°	697.1	698.0	697.1	696.1	697.1	697.1	697.1	698.0	698.0	698.0
172.5°	696.1	697.1	695.1	694.1	694.1	694.1	693.2	693.2	692.2	692.2
175°	695.1	695.1	693.2	692.2	692.2	692.2	690.2	689.3	688.3	687.3
177.5°	694.1	694.1	691.2	690.2	690.2	689.3	689.3	687.3	687.3	686.4
180°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2

(END OF REPORT)