

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: P395546

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395546  
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 (4500K)  
Description: CORELITE I3, FROSTED TOP COVER  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3707.4 lumens  
Efficiency: N/A  
Efficacy: 130.5 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

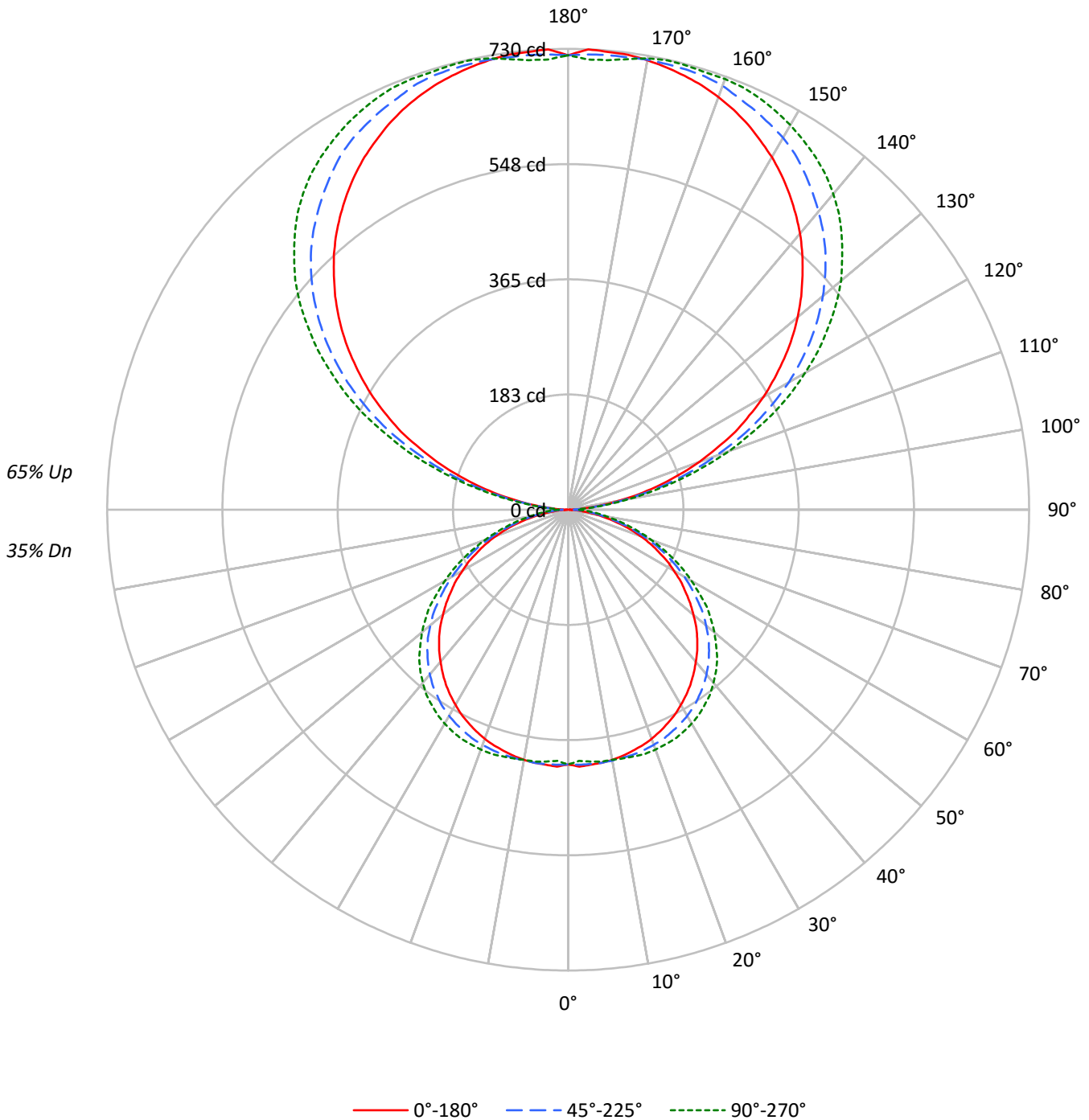
Input Watts (W): 28.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)

### 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°	2217	2217	2217
5°	2228	2181	2147
10°	2229	2151	2121
15°	2224	2132	2113
20°	2225	2114	2109
25°	2219	2095	2102
30°	2211	2075	2083
35°	2200	2042	2051
40°	2178	1999	2007
45°	2156	1937	1945
50°	2106	1851	1850
55°	2046	1734	1739
60°	1977	1598	1571
65°	1879	1432	1396
70°	1745	1220	1179
75°	1519	970	938
80°	1186	689	687
85°	645	395	451



TEST NUMBER: P395546

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	1.0
10°-20°	113.1	3.1
20°-30°	178.4	4.8
30°-40°	224.2	6.0
40°-50°	241.1	6.5
50°-60°	221.7	6.0
60°-70°	169.9	4.6
70°-80°	96.7	2.6
80°-90°	30.2	0.8
90°-100°	40.4	1.1
100°-110°	175.7	4.7
110°-120°	321.7	8.7
120°-130°	414.6	11.2
130°-140°	441.2	11.9
140°-150°	405.9	10.9
150°-160°	321.6	8.7
160°-170°	203.6	5.5
170°-180°	68.9	1.9
0°-30°	330.0	8.9
0°-40°	554.2	14.9
0°-60°	1017.0	27.4
0°-90°	1313.8	35.4
90°-120°	537.8	14.5
90°-150°	1799.4	48.5
90°-180°	2394.0	64.6
0°-180°	3707.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	403	403	403	403	403	
5°	405	401	404	402	400	39
15°	395	393	401	404	404	112
25°	373	374	388	397	400	172
35°	338	342	361	373	377	211
45°	289	296	315	329	334	223
55°	226	236	250	263	268	203
65°	158	163	173	181	184	156
75°	83	85	91	96	99	88
85°	15	19	25	32	34	19
90°	1	3	9	13	15	2
95°	27	26	29	33	34	34
105°	149	156	168	178	181	158
115°	292	305	330	347	356	287
125°	418	436	469	492	502	373
135°	525	542	576	600	613	405
145°	611	624	652	671	682	382
155°	673	681	699	713	719	310
165°	712	712	722	727	728	201
175°	728	723	723	720	715	69
180°	720	720	720	720	720	



TEST NUMBER: P395546

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4
2.5°	407.4	406.4	405.4	403.4	403.4	402.4	402.4	402.4	402.4	403.4	404.4
5°	405.4	405.4	404.4	402.4	402.4	401.4	401.4	402.4	401.4	402.4	404.4
7.5°	404.4	404.4	403.4	401.4	401.4	401.4	401.4	401.4	401.4	402.4	404.4
10°	402.4	402.4	400.4	399.3	399.3	399.3	399.3	400.4	400.4	401.4	403.4
12.5°	399.3	398.3	397.3	396.3	396.3	396.3	397.3	398.3	398.3	400.4	402.4
15°	395.3	395.3	394.3	393.3	393.3	393.3	394.3	395.3	396.3	398.3	401.4
17.5°	391.3	391.3	390.2	390.2	390.2	390.2	391.3	392.3	394.3	396.3	399.3
20°	386.2	386.2	385.2	385.2	385.2	386.2	386.2	388.2	390.2	393.3	396.3
22.5°	380.1	380.1	380.1	379.1	380.1	381.1	382.2	384.2	386.2	389.2	393.3
25°	373.1	373.1	373.1	373.1	374.1	374.1	376.1	378.1	380.1	384.2	388.2
27.5°	366.0	366.0	366.0	365.0	367.0	368.0	369.0	372.0	374.1	379.1	383.2
30°	356.9	356.9	356.9	357.9	358.9	359.9	361.9	365.0	367.0	372.0	377.1
32.5°	347.8	347.8	347.8	347.8	350.8	351.8	352.8	355.9	359.9	365.0	370.0
35°	337.7	337.7	337.7	338.7	340.7	341.7	343.7	346.8	350.8	355.9	360.9
37.5°	326.5	327.6	327.6	328.6	330.6	332.6	334.6	337.7	341.7	346.8	351.8
40°	314.4	315.4	315.4	316.4	318.5	320.5	322.5	326.5	330.6	335.6	340.7
42.5°	302.3	303.3	303.3	305.3	307.3	309.4	311.4	315.4	319.5	324.5	328.6
45°	289.1	290.2	290.2	292.2	295.2	296.2	299.3	303.3	307.3	311.4	315.4
47.5°	275.0	276.0	276.0	278.0	281.1	283.1	285.1	289.1	292.2	297.2	301.3
50°	258.8	259.8	260.8	262.9	266.9	268.9	270.9	274.0	278.0	281.1	285.1
52.5°	243.6	243.6	244.7	246.7	249.7	251.7	252.7	255.8	260.8	264.9	268.9
55°	226.5	227.5	228.5	230.5	233.5	235.6	236.6	239.6	242.6	245.7	249.7
57.5°	211.3	211.3	212.3	214.3	217.4	218.4	219.4	221.4	225.4	228.5	231.5
60°	193.1	194.1	195.1	197.1	199.2	201.2	201.2	204.2	207.3	210.3	212.3
62.5°	176.9	176.9	177.9	180.0	181.0	183.0	183.0	186.0	188.0	191.1	193.1
65°	157.7	158.7	159.7	160.7	162.8	162.8	163.8	165.8	167.8	169.8	172.9
67.5°	140.5	140.5	141.5	142.5	143.6	143.6	144.6	146.6	148.6	150.6	152.7
70°	121.3	122.3	122.3	122.3	123.3	124.4	125.4	126.4	128.4	129.4	131.4
72.5°	102.1	102.1	103.1	103.1	104.1	105.1	106.2	107.2	108.2	110.2	111.2
75°	82.9	82.9	83.9	83.9	84.9	84.9	84.9	86.9	88.0	90.0	91.0
77.5°	63.7	64.7	64.7	64.7	65.7	66.7	66.7	67.7	69.8	70.8	71.8
80°	46.5	46.5	46.5	46.5	47.5	48.5	49.5	49.5	51.6	53.6	54.6
82.5°	29.3	29.3	30.3	31.3	31.3	32.4	33.4	34.4	36.4	37.4	38.4
85°	15.2	15.2	16.2	17.2	18.2	19.2	19.2	20.2	22.2	24.3	25.3
87.5°	5.1	6.1	6.1	7.1	8.1	9.1	10.1	11.1	13.1	15.2	16.2
90°	1.0	1.0	1.0	2.0	3.0	3.0	4.0	5.1	6.1	7.1	9.1
92.5°	9.1	9.1	8.1	9.1	9.1	9.1	9.1	10.1	11.1	11.1	13.1
95°	27.3	26.3	26.3	26.3	26.3	26.3	26.3	27.3	28.3	28.3	29.3
97.5°	52.6	52.6	51.6	51.6	52.6	52.6	52.6	53.6	55.6	54.6	56.6
100°	81.9	81.9	80.9	81.9	82.9	83.9	85.9	85.9	88.0	88.0	91.0
102.5°	115.3	115.3	114.2	116.3	117.3	119.3	119.3	121.3	124.4	124.4	128.4
105°	148.6	149.6	149.6	151.6	153.7	155.7	155.7	158.7	162.8	162.8	167.8
107.5°	185.0	186.0	186.0	188.0	190.1	192.1	193.1	197.1	201.2	202.2	208.3
110°	220.4	221.4	222.4	224.4	226.5	229.5	231.5	235.6	240.6	242.6	247.7



TEST NUMBER: P395546

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	253.8	257.8	258.8	261.8	264.9	267.9	269.9	275.0	281.1	284.1	290.2
115°	292.2	294.2	295.2	298.2	302.3	305.3	307.3	312.4	318.5	322.5	329.6
117.5°	323.5	328.6	329.6	332.6	336.7	339.7	341.7	347.8	354.9	359.9	367.0
120°	356.9	360.9	365.0	367.0	370.0	374.1	376.1	382.2	390.2	395.3	403.4
122.5°	387.2	391.3	395.3	398.3	402.4	404.4	407.4	414.5	422.6	428.7	436.7
125°	417.5	422.6	425.6	428.7	433.7	435.7	438.8	445.8	453.9	461.0	469.1
127.5°	446.9	449.9	454.9	457.0	462.0	464.0	467.1	475.2	483.3	490.3	498.4
130°	474.2	478.2	482.2	483.3	489.3	492.3	495.4	502.5	511.6	518.6	526.7
132.5°	500.4	502.5	507.5	510.5	515.6	518.6	521.7	527.7	536.8	543.9	552.0
135°	524.7	526.7	532.8	535.8	538.9	541.9	545.9	552.0	561.1	568.2	576.3
137.5°	549.0	551.0	557.1	560.1	562.1	565.1	568.2	574.2	583.3	590.4	597.5
140°	571.2	573.2	577.3	581.3	583.3	585.4	588.4	594.5	602.5	609.6	616.7
142.5°	591.4	593.4	597.5	601.5	604.6	604.6	607.6	612.7	621.8	628.8	634.9
145°	610.6	611.6	615.7	619.7	623.8	623.8	624.8	629.8	637.9	646.0	652.1
147.5°	628.8	629.8	632.9	636.9	640.0	641.0	643.0	645.0	653.1	661.2	668.3
150°	645.0	646.0	648.0	652.1	654.1	656.1	658.2	659.2	665.2	672.3	680.4
152.5°	659.2	660.2	662.2	665.2	667.3	669.3	671.3	674.3	677.4	684.4	689.5
155°	673.3	674.3	675.3	678.4	680.4	681.4	682.4	686.5	689.5	693.5	698.6
157.5°	685.4	685.4	686.5	688.5	690.5	690.5	691.5	695.6	698.6	702.6	705.7
160°	695.6	695.6	696.6	698.6	698.6	699.6	700.6	703.6	705.7	710.7	714.8
162.5°	704.7	703.6	704.7	705.7	705.7	705.7	706.7	708.7	711.7	715.8	719.8
165°	711.7	711.7	711.7	712.7	712.7	711.7	711.7	713.8	715.8	718.8	721.8
167.5°	717.8	717.8	716.8	717.8	716.8	716.8	715.8	716.8	717.8	720.8	722.9
170°	722.9	721.8	721.8	721.8	720.8	719.8	719.8	719.8	719.8	721.8	723.9
172.5°	726.9	725.9	724.9	724.9	722.9	721.8	721.8	720.8	720.8	721.8	722.9
175°	727.9	726.9	725.9	725.9	723.9	722.9	721.8	721.8	720.8	721.8	722.9
177.5°	729.9	728.9	726.9	726.9	724.9	722.9	722.9	721.8	720.8	721.8	721.8
180°	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8



TEST NUMBER: P395546

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4
2.5°	405.4	405.4	404.4	403.4	403.4	402.4	401.4	400.4	399.3	398.3
5°	405.4	404.4	403.4	403.4	402.4	402.4	402.4	401.4	400.4	400.4
7.5°	405.4	405.4	404.4	403.4	403.4	403.4	403.4	403.4	402.4	402.4
10°	405.4	404.4	404.4	404.4	403.4	404.4	404.4	403.4	403.4	402.4
12.5°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	403.4
15°	402.4	403.4	403.4	404.4	404.4	404.4	405.4	405.4	404.4	404.4
17.5°	401.4	402.4	403.4	404.4	404.4	404.4	405.4	405.4	405.4	405.4
20°	399.3	400.4	401.4	402.4	402.4	403.4	403.4	404.4	404.4	404.4
22.5°	395.3	396.3	398.3	399.3	400.4	401.4	402.4	402.4	402.4	402.4
25°	391.3	393.3	394.3	396.3	397.3	398.3	399.3	399.3	399.3	400.4
27.5°	386.2	388.2	391.3	392.3	393.3	394.3	395.3	396.3	396.3	396.3
30°	380.1	383.2	385.2	387.2	388.2	389.2	390.2	390.2	391.3	391.3
32.5°	373.1	376.1	378.1	380.1	381.1	382.2	384.2	384.2	385.2	385.2
35°	364.0	367.0	370.0	372.0	373.1	374.1	376.1	377.1	377.1	377.1
37.5°	354.9	357.9	360.9	364.0	365.0	366.0	368.0	368.0	369.0	369.0
40°	343.7	346.8	349.8	352.8	352.8	354.9	355.9	356.9	357.9	357.9
42.5°	332.6	335.6	337.7	340.7	341.7	342.7	343.7	345.8	345.8	346.8
45°	319.5	322.5	324.5	327.6	328.6	329.6	331.6	332.6	333.6	333.6
47.5°	305.3	307.3	309.4	312.4	314.4	315.4	316.4	317.4	318.5	317.4
50°	289.1	291.2	294.2	297.2	298.2	299.3	301.3	301.3	302.3	302.3
52.5°	272.0	275.0	277.0	280.0	281.1	282.1	284.1	284.1	285.1	285.1
55°	252.7	254.8	256.8	261.8	262.9	263.9	265.9	265.9	266.9	267.9
57.5°	234.5	235.6	238.6	240.6	242.6	242.6	243.6	244.7	245.7	245.7
60°	215.3	216.4	218.4	221.4	221.4	222.4	224.4	224.4	225.4	225.4
62.5°	195.1	197.1	199.2	202.2	201.2	202.2	204.2	204.2	205.2	205.2
65°	174.9	175.9	177.9	180.0	181.0	181.0	182.0	183.0	184.0	184.0
67.5°	153.7	155.7	156.7	159.7	158.7	159.7	160.7	160.7	161.8	161.8
70°	133.5	134.5	136.5	137.5	137.5	138.5	139.5	139.5	139.5	140.5
72.5°	113.2	114.2	115.3	116.3	116.3	117.3	118.3	118.3	119.3	119.3
75°	92.0	94.0	95.0	97.1	96.0	97.1	99.1	99.1	99.1	99.1
77.5°	73.8	74.8	76.8	77.8	77.8	77.8	79.9	78.9	79.9	79.9
80°	55.6	56.6	58.6	59.6	59.6	60.7	61.7	61.7	61.7	62.7
82.5°	39.4	41.5	43.5	44.5	44.5	45.5	46.5	46.5	47.5	47.5
85°	27.3	29.3	31.3	31.3	32.4	33.4	34.4	34.4	34.4	34.4
87.5°	18.2	19.2	20.2	21.2	22.2	22.2	23.3	23.3	24.3	24.3
90°	10.1	11.1	12.1	13.1	13.1	14.2	14.2	15.2	15.2	15.2
92.5°	14.2	14.2	15.2	16.2	16.2	16.2	16.2	17.2	17.2	17.2
95°	30.3	31.3	31.3	33.4	33.4	33.4	34.4	34.4	34.4	34.4
97.5°	58.6	58.6	58.6	60.7	60.7	60.7	61.7	61.7	61.7	62.7
100°	92.0	93.0	93.0	96.0	95.0	97.1	97.1	97.1	97.1	98.1
102.5°	129.4	131.4	132.4	135.5	135.5	135.5	137.5	136.5	137.5	137.5
105°	169.8	171.9	172.9	175.9	177.9	177.9	180.0	178.9	180.0	181.0
107.5°	210.3	213.3	215.3	218.4	220.4	221.4	221.4	222.4	223.4	224.4
110°	251.7	254.8	259.8	262.9	263.9	265.9	266.9	267.9	268.9	270.9





TEST NUMBER: P395546

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	295.2	298.2	302.3	306.3	305.3	308.4	310.4	311.4	312.4	311.4
115°	334.6	338.7	342.7	346.8	346.8	348.8	352.8	353.8	353.8	355.9
117.5°	372.0	377.1	381.1	385.2	386.2	388.2	391.3	394.3	394.3	396.3
120°	408.4	414.5	418.5	422.6	424.6	425.6	428.7	432.7	432.7	432.7
122.5°	442.8	447.9	452.9	457.0	459.0	461.0	463.0	468.1	468.1	470.1
125°	475.2	481.2	486.3	490.3	492.3	494.4	498.4	501.4	502.5	502.5
127.5°	505.5	511.6	516.6	521.7	522.7	524.7	528.7	532.8	533.8	534.8
130°	533.8	539.9	544.9	550.0	552.0	553.0	558.1	561.1	563.1	564.1
132.5°	559.1	565.1	570.2	575.3	577.3	579.3	582.3	587.4	588.4	588.4
135°	582.3	588.4	593.4	599.5	600.5	602.5	606.6	609.6	611.6	612.7
137.5°	603.6	609.6	615.7	620.7	622.8	623.8	627.8	631.9	633.9	634.9
140°	622.8	628.8	634.9	638.9	640.0	643.0	646.0	650.1	652.1	653.1
142.5°	641.0	646.0	651.1	656.1	657.1	659.2	662.2	666.2	668.3	669.3
145°	657.1	662.2	666.2	670.3	671.3	673.3	676.3	679.4	681.4	682.4
147.5°	672.3	676.3	680.4	683.4	684.4	686.5	688.5	690.5	692.5	693.5
150°	685.4	687.5	691.5	693.5	694.5	696.6	698.6	700.6	702.6	703.6
152.5°	695.6	698.6	700.6	703.6	704.7	705.7	707.7	709.7	711.7	711.7
155°	703.6	706.7	708.7	711.7	712.7	713.8	715.8	716.8	718.8	718.8
157.5°	709.7	712.7	714.8	716.8	717.8	718.8	719.8	721.8	723.9	723.9
160°	716.8	717.8	718.8	720.8	720.8	721.8	722.9	723.9	725.9	725.9
162.5°	722.9	723.9	721.8	722.9	721.8	722.9	723.9	724.9	725.9	725.9
165°	724.9	726.9	725.9	726.9	726.9	726.9	726.9	727.9	727.9	727.9
167.5°	724.9	726.9	725.9	725.9	726.9	726.9	727.9	728.9	728.9	728.9
170°	724.9	725.9	724.9	723.9	724.9	724.9	724.9	725.9	725.9	725.9
172.5°	723.9	724.9	722.9	721.8	721.8	721.8	720.8	720.8	719.8	719.8
175°	722.9	722.9	720.8	719.8	719.8	719.8	717.8	716.8	715.8	714.8
177.5°	721.8	721.8	718.8	717.8	717.8	716.8	716.8	714.8	714.8	713.8
180°	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8	719.8

(END OF REPORT)