

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: P395571

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395571  
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-50L82765-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, FROSTED TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4546.1 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

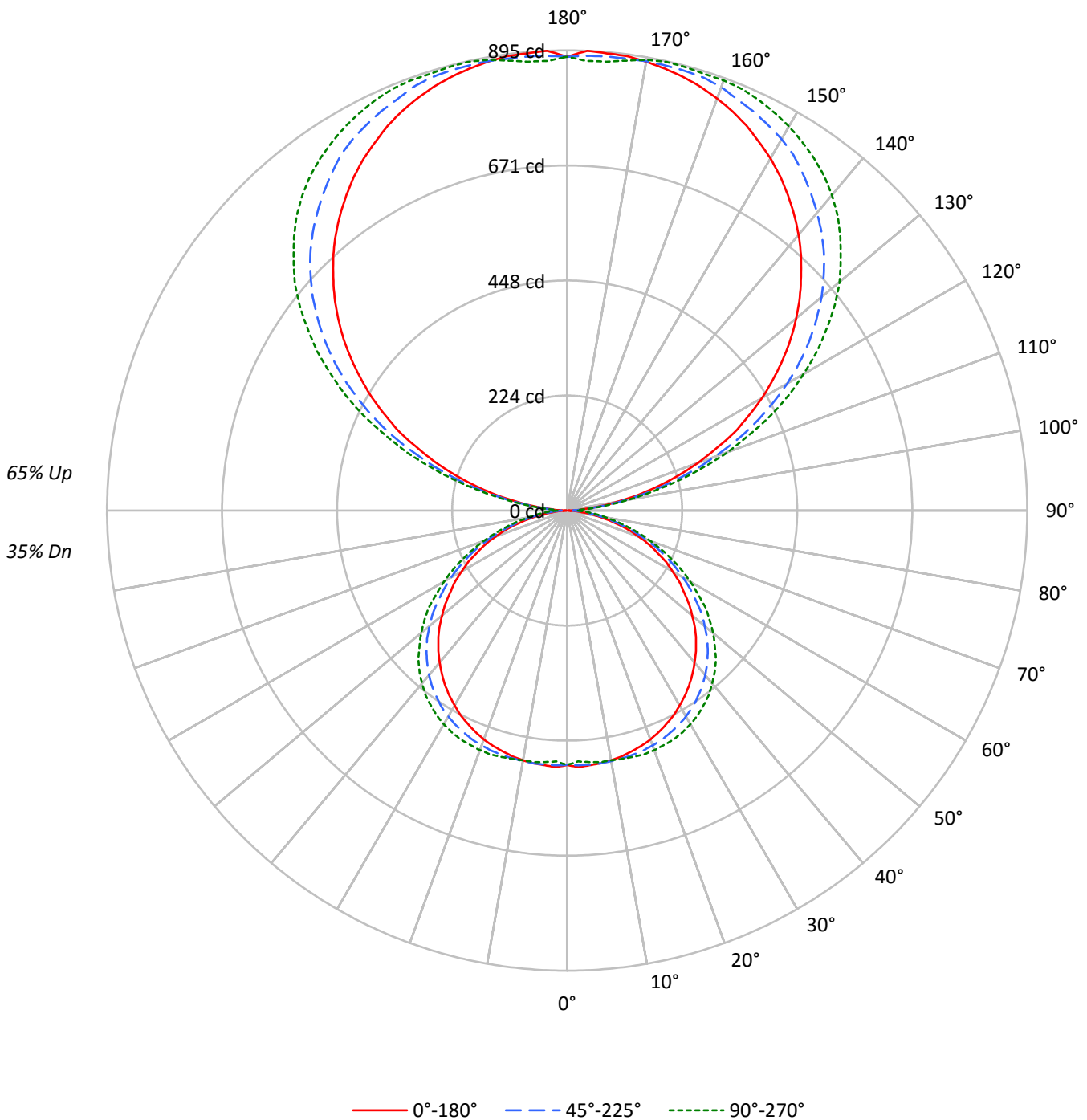
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395571

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395571

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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	50	30	10	0		
RCR																										
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35					35			
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29					29			
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24					24			
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20					20			
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17					17			
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15					15			
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13					13			
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11					11			
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10					10			
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9					9			
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8					8			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2719	2719	2719
5°	2733	2674	2632
10°	2733	2637	2601
15°	2727	2615	2590
20°	2728	2592	2587
25°	2721	2569	2577
30°	2711	2544	2554
35°	2698	2504	2516
40°	2671	2451	2461
45°	2644	2375	2385
50°	2583	2270	2269
55°	2509	2127	2133
60°	2424	1959	1927
65°	2305	1756	1711
70°	2141	1497	1445
75°	1864	1190	1150
80°	1453	845	842
85°	789	484	553



TEST NUMBER: P395571

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.2	1.0
10°-20°	138.7	3.1
20°-30°	218.7	4.8
30°-40°	274.9	6.0
40°-50°	295.6	6.5
50°-60°	271.9	6.0
60°-70°	208.3	4.6
70°-80°	118.6	2.6
80°-90°	37.0	0.8
90°-100°	49.5	1.1
100°-110°	215.5	4.7
110°-120°	394.4	8.7
120°-130°	508.4	11.2
130°-140°	541.0	11.9
140°-150°	497.7	10.9
150°-160°	394.3	8.7
160°-170°	249.7	5.5
170°-180°	84.5	1.9
0°-30°	404.6	8.9
0°-40°	679.5	14.9
0°-60°	1247.1	27.4
0°-90°	1611.1	35.4
90°-120°	659.4	14.5
90°-150°	2206.5	48.5
90°-180°	2935.0	64.6
0°-180°	4546.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	497	492	496	493	491	47
15°	485	482	492	496	496	137
25°	458	459	476	487	491	211
35°	414	419	443	458	462	259
45°	355	363	387	403	409	273
55°	278	289	306	322	328	249
65°	193	200	212	222	226	192
75°	102	104	112	118	122	108
85°	19	24	31	40	42	23
90°	1	4	11	16	19	3
95°	34	32	36	41	42	42
105°	182	191	206	218	222	194
115°	358	374	404	425	436	351
125°	512	534	575	604	616	457
135°	643	664	707	736	751	497
145°	749	765	800	823	837	469
155°	826	836	857	874	881	381
165°	873	873	885	891	893	247
175°	893	886	886	883	876	85
180°	883	883	883	883	883	



TEST NUMBER: P395571

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6
2.5°	499.6	498.4	497.1	494.6	494.6	493.4	493.4	493.4	493.4	494.6	495.9
5°	497.1	497.1	495.9	493.4	493.4	492.2	492.2	493.4	492.2	493.4	495.9
7.5°	495.9	495.9	494.6	492.2	492.2	492.2	492.2	492.2	492.2	493.4	495.9
10°	493.4	493.4	490.9	489.7	489.7	489.7	489.7	490.9	490.9	492.2	494.6
12.5°	489.7	488.4	487.2	486.0	486.0	486.0	487.2	488.4	488.4	490.9	493.4
15°	484.7	484.7	483.5	482.2	482.2	482.2	483.5	484.7	486.0	488.4	492.2
17.5°	479.8	479.8	478.5	478.5	478.5	478.5	479.8	481.0	483.5	486.0	489.7
20°	473.6	473.6	472.3	472.3	472.3	473.6	473.6	476.1	478.5	482.2	486.0
22.5°	466.1	466.1	466.1	464.9	466.1	467.4	468.6	471.1	473.6	477.3	482.2
25°	457.5	457.5	457.5	457.5	458.7	458.7	461.2	463.7	466.1	471.1	476.1
27.5°	448.8	448.8	448.8	447.5	450.0	451.3	452.5	456.2	458.7	464.9	469.9
30°	437.6	437.6	437.6	438.9	440.1	441.3	443.8	447.5	450.0	456.2	462.4
32.5°	426.5	426.5	426.5	426.5	430.2	431.4	432.7	436.4	441.3	447.5	453.7
35°	414.1	414.1	414.1	415.3	417.8	419.0	421.5	425.2	430.2	436.4	442.6
37.5°	400.4	401.7	401.7	402.9	405.4	407.9	410.3	414.1	419.0	425.2	431.4
40°	385.6	386.8	386.8	388.0	390.5	393.0	395.5	400.4	405.4	411.6	417.8
42.5°	370.7	371.9	371.9	374.4	376.9	379.4	381.8	386.8	391.8	397.9	402.9
45°	354.6	355.8	355.8	358.3	362.0	363.2	367.0	371.9	376.9	381.8	386.8
47.5°	337.2	338.4	338.4	340.9	344.6	347.1	349.6	354.6	358.3	364.5	369.4
50°	317.4	318.6	319.8	322.3	327.3	329.8	332.2	336.0	340.9	344.6	349.6
52.5°	298.8	298.8	300.0	302.5	306.2	308.7	309.9	313.6	319.8	324.8	329.8
55°	277.7	278.9	280.2	282.7	286.4	288.9	290.1	293.8	297.5	301.3	306.2
57.5°	259.1	259.1	260.3	262.8	266.5	267.8	269.0	271.5	276.5	280.2	283.9
60°	236.8	238.0	239.3	241.7	244.2	246.7	246.7	250.4	254.1	257.9	260.3
62.5°	217.0	217.0	218.2	220.7	221.9	224.4	224.4	228.1	230.6	234.3	236.8
65°	193.4	194.6	195.9	197.1	199.6	199.6	200.8	203.3	205.8	208.3	212.0
67.5°	172.3	172.3	173.6	174.8	176.0	176.0	177.3	179.8	182.2	184.7	187.2
70°	148.8	150.0	150.0	150.0	151.2	152.5	153.7	155.0	157.4	158.7	161.2
72.5°	125.2	125.2	126.5	126.5	127.7	128.9	130.2	131.4	132.6	135.1	136.4
75°	101.7	101.7	102.9	102.9	104.1	104.1	104.1	106.6	107.9	110.3	111.6
77.5°	78.1	79.3	79.3	79.3	80.6	81.8	81.8	83.1	85.5	86.8	88.0
80°	57.0	57.0	57.0	57.0	58.3	59.5	60.7	60.7	63.2	65.7	66.9
82.5°	36.0	36.0	37.2	38.4	38.4	39.7	40.9	42.2	44.6	45.9	47.1
85°	18.6	18.6	19.8	21.1	22.3	23.6	23.6	24.8	27.3	29.8	31.0
87.5°	6.2	7.4	7.4	8.7	9.9	11.2	12.4	13.6	16.1	18.6	19.8
90°	1.2	1.2	1.2	2.5	3.7	3.7	5.0	6.2	7.4	8.7	11.2
92.5°	11.2	11.2	9.9	11.2	11.2	11.2	11.2	12.4	13.6	13.6	16.1
95°	33.5	32.2	32.2	32.2	32.2	32.2	32.2	33.5	34.7	34.7	36.0
97.5°	64.5	64.5	63.2	63.2	64.5	64.5	64.5	65.7	68.2	66.9	69.4
100°	100.4	100.4	99.2	100.4	101.7	102.9	105.4	105.4	107.9	107.9	111.6
102.5°	141.3	141.3	140.1	142.6	143.8	146.3	146.3	148.8	152.5	152.5	157.4
105°	182.2	183.5	183.5	186.0	188.4	190.9	190.9	194.6	199.6	199.6	205.8
107.5°	226.9	228.1	228.1	230.6	233.1	235.5	236.8	241.7	246.7	247.9	255.4
110°	270.3	271.5	272.7	275.2	277.7	281.4	283.9	288.9	295.1	297.5	303.7



TEST NUMBER: P395571

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	311.2	316.1	317.4	321.1	324.8	328.5	331.0	337.2	344.6	348.4	355.8
115°	358.3	360.8	362.0	365.7	370.7	374.4	376.9	383.1	390.5	395.5	404.1
117.5°	396.7	402.9	404.1	407.9	412.8	416.5	419.0	426.5	435.1	441.3	450.0
120°	437.6	442.6	447.5	450.0	453.7	458.7	461.2	468.6	478.5	484.7	494.6
122.5°	474.8	479.8	484.7	488.4	493.4	495.9	499.6	508.3	518.2	525.6	535.6
125°	512.0	518.2	521.9	525.6	531.8	534.3	538.0	546.7	556.6	565.3	575.2
127.5°	548.0	551.7	557.9	560.4	566.5	569.0	572.7	582.7	592.6	601.3	611.2
130°	581.4	586.4	591.3	592.6	600.0	603.7	607.5	616.1	627.3	636.0	645.9
132.5°	613.7	616.1	622.3	626.1	632.3	636.0	639.7	647.1	658.3	667.0	676.9
135°	643.4	645.9	653.3	657.0	660.8	664.5	669.4	676.9	688.0	696.7	706.6
137.5°	673.2	675.6	683.1	686.8	689.3	693.0	696.7	704.2	715.3	724.0	732.7
140°	700.4	702.9	707.9	712.8	715.3	717.8	721.5	729.0	738.9	747.5	756.2
142.5°	725.2	727.7	732.7	737.6	741.3	741.3	745.1	751.3	762.4	771.1	778.5
145°	748.8	750.0	755.0	759.9	764.9	764.9	766.1	772.3	782.3	792.2	799.6
147.5°	771.1	772.3	776.1	781.0	784.7	786.0	788.5	790.9	800.9	810.8	819.5
150°	790.9	792.2	794.7	799.6	802.1	804.6	807.1	808.3	815.7	824.4	834.3
152.5°	808.3	809.5	812.0	815.7	818.2	820.7	823.2	826.9	830.6	839.3	845.5
155°	825.7	826.9	828.1	831.8	834.3	835.6	836.8	841.8	845.5	850.4	856.6
157.5°	840.5	840.5	841.8	844.2	846.7	846.7	848.0	852.9	856.6	861.6	865.3
160°	852.9	852.9	854.2	856.6	856.6	857.9	859.1	862.8	865.3	871.5	876.5
162.5°	864.1	862.8	864.1	865.3	865.3	865.3	866.6	869.0	872.8	877.7	882.7
165°	872.8	872.8	872.8	874.0	874.0	872.8	872.8	875.2	877.7	881.4	885.2
167.5°	880.2	880.2	879.0	880.2	879.0	879.0	877.7	879.0	880.2	883.9	886.4
170°	886.4	885.2	885.2	885.2	883.9	882.7	882.7	882.7	882.7	885.2	887.6
172.5°	891.4	890.1	888.9	888.9	886.4	885.2	885.2	883.9	883.9	885.2	886.4
175°	892.6	891.4	890.1	890.1	887.6	886.4	885.2	885.2	883.9	885.2	886.4
177.5°	895.1	893.8	891.4	891.4	888.9	886.4	886.4	885.2	883.9	885.2	885.2
180°	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7



TEST NUMBER: P395571

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6	494.6
2.5°	497.1	497.1	495.9	494.6	494.6	493.4	492.2	490.9	489.7	488.4
5°	497.1	495.9	494.6	494.6	493.4	493.4	493.4	492.2	490.9	490.9
7.5°	497.1	497.1	495.9	494.6	494.6	494.6	494.6	494.6	493.4	493.4
10°	497.1	495.9	495.9	495.9	494.6	495.9	495.9	494.6	494.6	493.4
12.5°	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	494.6
15°	493.4	494.6	494.6	495.9	495.9	495.9	497.1	497.1	495.9	495.9
17.5°	492.2	493.4	494.6	495.9	495.9	495.9	497.1	497.1	497.1	497.1
20°	489.7	490.9	492.2	493.4	493.4	494.6	494.6	495.9	495.9	495.9
22.5°	484.7	486.0	488.4	489.7	490.9	492.2	493.4	493.4	493.4	493.4
25°	479.8	482.2	483.5	486.0	487.2	488.4	489.7	489.7	489.7	490.9
27.5°	473.6	476.1	479.8	481.0	482.2	483.5	484.7	486.0	486.0	486.0
30°	466.1	469.9	472.3	474.8	476.1	477.3	478.5	478.5	479.8	479.8
32.5°	457.5	461.2	463.7	466.1	467.4	468.6	471.1	471.1	472.3	472.3
35°	446.3	450.0	453.7	456.2	457.5	458.7	461.2	462.4	462.4	462.4
37.5°	435.1	438.9	442.6	446.3	447.5	448.8	451.3	451.3	452.5	452.5
40°	421.5	425.2	428.9	432.7	432.7	435.1	436.4	437.6	438.9	438.9
42.5°	407.9	411.6	414.1	417.8	419.0	420.3	421.5	424.0	424.0	425.2
45°	391.8	395.5	397.9	401.7	402.9	404.1	406.6	407.9	409.1	409.1
47.5°	374.4	376.9	379.4	383.1	385.6	386.8	388.0	389.3	390.5	389.3
50°	354.6	357.0	360.8	364.5	365.7	367.0	369.4	369.4	370.7	370.7
52.5°	333.5	337.2	339.7	343.4	344.6	345.9	348.4	348.4	349.6	349.6
55°	309.9	312.4	314.9	321.1	322.3	323.6	326.0	326.0	327.3	328.5
57.5°	287.6	288.9	292.6	295.1	297.5	297.5	298.8	300.0	301.3	301.3
60°	264.1	265.3	267.8	271.5	271.5	272.7	275.2	275.2	276.5	276.5
62.5°	239.3	241.7	244.2	247.9	246.7	247.9	250.4	250.4	251.7	251.7
65°	214.5	215.7	218.2	220.7	221.9	221.9	223.1	224.4	225.6	225.6
67.5°	188.4	190.9	192.2	195.9	194.6	195.9	197.1	197.1	198.4	198.4
70°	163.6	164.9	167.4	168.6	168.6	169.8	171.1	171.1	171.1	172.3
72.5°	138.8	140.1	141.3	142.6	142.6	143.8	145.0	145.0	146.3	146.3
75°	112.8	115.3	116.5	119.0	117.8	119.0	121.5	121.5	121.5	121.5
77.5°	90.5	91.7	94.2	95.5	95.5	95.5	97.9	96.7	97.9	97.9
80°	68.2	69.4	71.9	73.1	73.1	74.4	75.6	75.6	75.6	76.9
82.5°	48.3	50.8	53.3	54.5	54.5	55.8	57.0	57.0	58.3	58.3
85°	33.5	36.0	38.4	38.4	39.7	40.9	42.2	42.2	42.2	42.2
87.5°	22.3	23.6	24.8	26.0	27.3	27.3	28.5	28.5	29.8	29.8
90°	12.4	13.6	14.9	16.1	16.1	17.4	17.4	18.6	18.6	18.6
92.5°	17.4	17.4	18.6	19.8	19.8	19.8	19.8	21.1	21.1	21.1
95°	37.2	38.4	38.4	40.9	40.9	40.9	42.2	42.2	42.2	42.2
97.5°	71.9	71.9	71.9	74.4	74.4	74.4	75.6	75.6	75.6	76.9
100°	112.8	114.1	114.1	117.8	116.5	119.0	119.0	119.0	119.0	120.3
102.5°	158.7	161.2	162.4	166.1	166.1	166.1	168.6	167.4	168.6	168.6
105°	208.3	210.8	212.0	215.7	218.2	218.2	220.7	219.4	220.7	221.9
107.5°	257.9	261.6	264.1	267.8	270.3	271.5	271.5	272.7	274.0	275.2
110°	308.7	312.4	318.6	322.3	323.6	326.0	327.3	328.5	329.8	332.2





TEST NUMBER: P395571

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	362.0	365.7	370.7	375.6	374.4	378.1	380.6	381.8	383.1	381.8
115°	410.3	415.3	420.3	425.2	425.2	427.7	432.7	433.9	433.9	436.4
117.5°	456.2	462.4	467.4	472.3	473.6	476.1	479.8	483.5	483.5	486.0
120°	500.8	508.3	513.2	518.2	520.7	521.9	525.6	530.6	530.6	530.6
122.5°	543.0	549.2	555.4	560.4	562.8	565.3	567.8	574.0	574.0	576.5
125°	582.7	590.1	596.3	601.3	603.7	606.2	611.2	614.9	616.1	616.1
127.5°	619.9	627.3	633.5	639.7	640.9	643.4	648.4	653.3	654.6	655.8
130°	654.6	662.0	668.2	674.4	676.9	678.1	684.3	688.0	690.5	691.8
132.5°	685.6	693.0	699.2	705.4	707.9	710.4	714.1	720.3	721.5	721.5
135°	714.1	721.5	727.7	735.2	736.4	738.9	743.8	747.5	750.0	751.3
137.5°	740.1	747.5	755.0	761.2	763.7	764.9	769.9	774.8	777.3	778.5
140°	763.7	771.1	778.5	783.5	784.7	788.5	792.2	797.1	799.6	800.9
142.5°	786.0	792.2	798.4	804.6	805.8	808.3	812.0	817.0	819.5	820.7
145°	805.8	812.0	817.0	821.9	823.2	825.7	829.4	833.1	835.6	836.8
147.5°	824.4	829.4	834.3	838.0	839.3	841.8	844.2	846.7	849.2	850.4
150°	840.5	843.0	848.0	850.4	851.7	854.2	856.6	859.1	861.6	862.8
152.5°	852.9	856.6	859.1	862.8	864.1	865.3	867.8	870.3	872.8	872.8
155°	862.8	866.6	869.0	872.8	874.0	875.2	877.7	879.0	881.4	881.4
157.5°	870.3	874.0	876.5	879.0	880.2	881.4	882.7	885.2	887.6	887.6
160°	879.0	880.2	881.4	883.9	883.9	885.2	886.4	887.6	890.1	890.1
162.5°	886.4	887.6	885.2	886.4	885.2	886.4	887.6	888.9	890.1	890.1
165°	888.9	891.4	890.1	891.4	891.4	891.4	891.4	892.6	892.6	892.6
167.5°	888.9	891.4	890.1	890.1	891.4	891.4	892.6	893.8	893.8	893.8
170°	888.9	890.1	888.9	887.6	888.9	888.9	888.9	890.1	890.1	890.1
172.5°	887.6	888.9	886.4	885.2	885.2	885.2	883.9	883.9	882.7	882.7
175°	886.4	886.4	883.9	882.7	882.7	882.7	880.2	879.0	877.7	876.5
177.5°	885.2	885.2	881.4	880.2	880.2	879.0	879.0	876.5	876.5	875.2
180°	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7	882.7

(END OF REPORT)