

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: P395572

Luminaire Tested: **I3-FL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395572  
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 (4500K)  
Description: CORELITE I3, FROSTED TOP COVER  
5000 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: 4628.1 lumens  
Efficiency: N/A  
Efficacy: 127.8 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

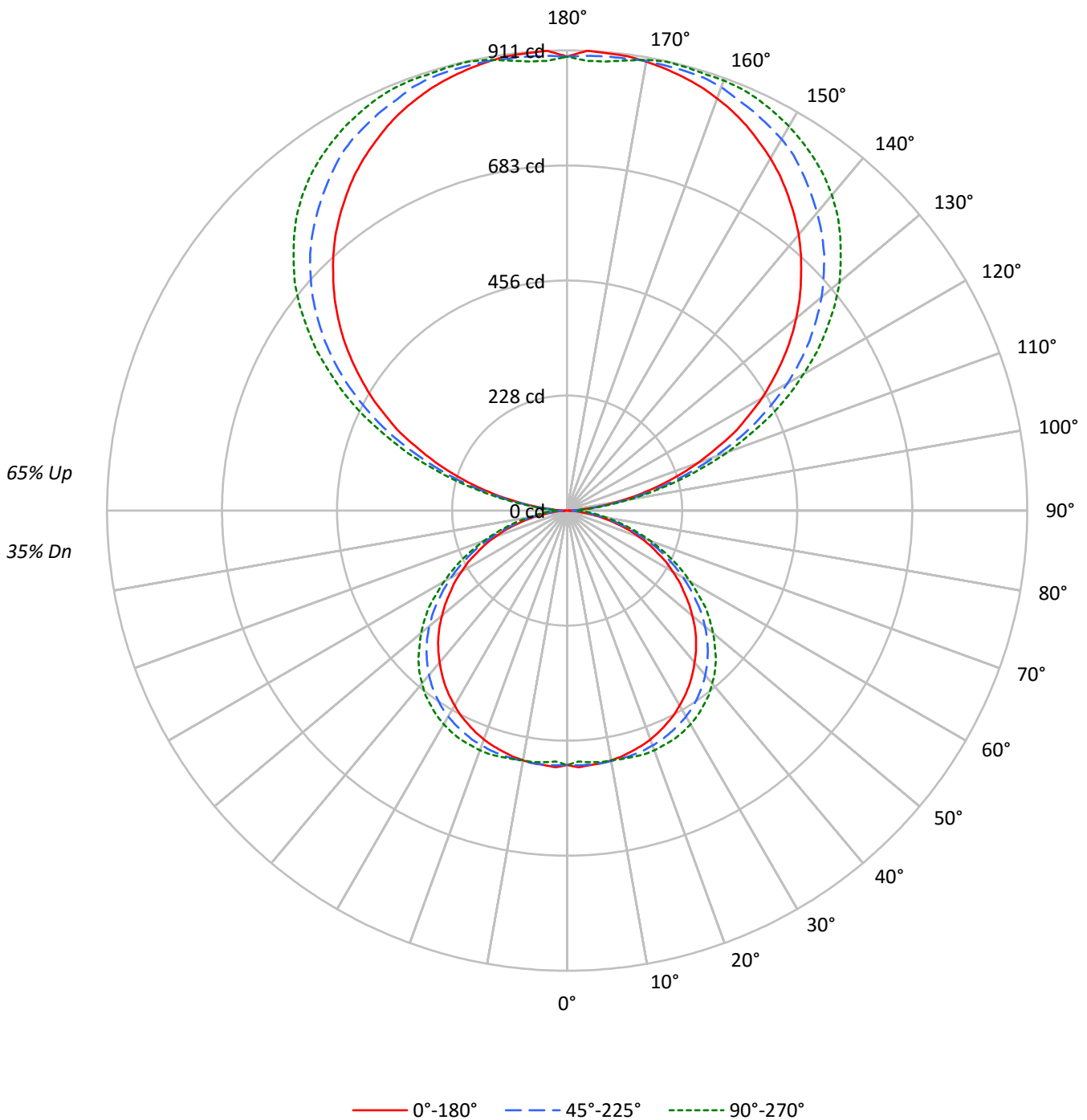
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4500K)

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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																				
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°	2768	2768	2768
5°	2782	2722	2679
10°	2783	2685	2648
15°	2777	2661	2637
20°	2777	2638	2633
25°	2769	2615	2623
30°	2760	2591	2599
35°	2746	2549	2561
40°	2719	2495	2505
45°	2692	2418	2428
50°	2629	2311	2310
55°	2554	2165	2171
60°	2468	1995	1961
65°	2347	1788	1742
70°	2178	1524	1471
75°	1897	1211	1171
80°	1482	861	856
85°	802	494	562



TEST NUMBER: P395572

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.0
10°-20°	141.2	3.1
20°-30°	222.7	4.8
30°-40°	279.9	6.0
40°-50°	300.9	6.5
50°-60°	276.8	6.0
60°-70°	212.1	4.6
70°-80°	120.8	2.6
80°-90°	37.7	0.8
90°-100°	50.4	1.1
100°-110°	219.3	4.7
110°-120°	401.5	8.7
120°-130°	517.6	11.2
130°-140°	550.7	11.9
140°-150°	506.7	10.9
150°-160°	401.4	8.7
160°-170°	254.2	5.5
170°-180°	86.1	1.9
0°-30°	411.9	8.9
0°-40°	691.8	14.9
0°-60°	1269.6	27.4
0°-90°	1640.1	35.4
90°-120°	671.3	14.5
90°-150°	2246.3	48.5
90°-180°	2988.0	64.6
0°-180°	4628.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	506	501	505	502	500	48
15°	494	491	501	505	505	140
25°	466	467	485	496	500	215
35°	422	427	451	466	471	264
45°	361	370	394	410	416	278
55°	283	294	312	328	334	253
65°	197	203	216	226	230	195
75°	104	106	114	120	124	109
85°	19	24	32	40	43	24
90°	1	4	11	16	19	3
95°	34	33	37	42	43	43
105°	186	194	210	222	226	197
115°	365	381	411	433	444	358
125°	521	544	586	615	627	466
135°	655	676	719	750	765	505
145°	762	779	814	838	852	477
155°	840	851	872	890	897	387
165°	888	888	901	907	909	251
175°	909	902	902	899	892	87
180°	899	899	899	899	899	



TEST NUMBER: P395572

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6
2.5°	508.6	507.4	506.1	503.6	503.6	502.3	502.3	502.3	502.3	503.6	504.8
5°	506.1	506.1	504.8	502.3	502.3	501.0	501.0	502.3	501.0	502.3	504.8
7.5°	504.8	504.8	503.6	501.0	501.0	501.0	501.0	501.0	501.0	502.3	504.8
10°	502.3	502.3	499.8	498.5	498.5	498.5	498.5	499.8	499.8	501.0	503.6
12.5°	498.5	497.3	496.0	494.7	494.7	494.7	496.0	497.3	497.3	499.8	502.3
15°	493.5	493.5	492.2	490.9	490.9	490.9	492.2	493.5	494.7	497.3	501.0
17.5°	488.4	488.4	487.2	487.2	487.2	487.2	488.4	489.7	492.2	494.7	498.5
20°	482.1	482.1	480.9	480.9	480.9	482.1	482.1	484.6	487.2	490.9	494.7
22.5°	474.5	474.5	474.5	473.3	474.5	475.8	477.1	479.6	482.1	485.9	490.9
25°	465.7	465.7	465.7	465.7	467.0	467.0	469.5	472.0	474.5	479.6	484.6
27.5°	456.9	456.9	456.9	455.6	458.1	459.4	460.7	464.4	467.0	473.3	478.3
30°	445.5	445.5	445.5	446.8	448.0	449.3	451.8	455.6	458.1	464.4	470.8
32.5°	434.2	434.2	434.2	434.2	437.9	439.2	440.5	444.3	449.3	455.6	461.9
35°	421.5	421.5	421.5	422.8	425.3	426.6	429.1	432.9	437.9	444.3	450.6
37.5°	407.7	408.9	408.9	410.2	412.7	415.2	417.7	421.5	426.6	432.9	439.2
40°	392.5	393.8	393.8	395.0	397.6	400.1	402.6	407.7	412.7	419.0	425.3
42.5°	377.4	378.6	378.6	381.1	383.7	386.2	388.7	393.8	398.8	405.1	410.2
45°	361.0	362.2	362.2	364.7	368.5	369.8	373.6	378.6	383.7	388.7	393.8
47.5°	343.3	344.5	344.5	347.1	350.9	353.4	355.9	361.0	364.7	371.1	376.1
50°	323.1	324.4	325.6	328.1	333.2	335.7	338.2	342.0	347.1	350.9	355.9
52.5°	304.2	304.2	305.4	307.9	311.7	314.3	315.5	319.3	325.6	330.7	335.7
55°	282.7	284.0	285.2	287.8	291.5	294.1	295.3	299.1	302.9	306.7	311.7
57.5°	263.8	263.8	265.0	267.6	271.3	272.6	273.9	276.4	281.4	285.2	289.0
60°	241.1	242.3	243.6	246.1	248.6	251.2	251.2	254.9	258.7	262.5	265.0
62.5°	220.9	220.9	222.1	224.6	225.9	228.4	228.4	232.2	234.7	238.5	241.1
65°	196.9	198.1	199.4	200.7	203.2	203.2	204.5	207.0	209.5	212.0	215.8
67.5°	175.4	175.4	176.7	178.0	179.2	179.2	180.5	183.0	185.5	188.0	190.6
70°	151.4	152.7	152.7	152.7	154.0	155.2	156.5	157.8	160.3	161.5	164.1
72.5°	127.5	127.5	128.7	128.7	130.0	131.3	132.5	133.8	135.0	137.6	138.8
75°	103.5	103.5	104.8	104.8	106.0	106.0	106.0	108.5	109.8	112.3	113.6
77.5°	79.5	80.8	80.8	80.8	82.0	83.3	83.3	84.6	87.1	88.3	89.6
80°	58.1	58.1	58.1	58.1	59.3	60.6	61.8	61.8	64.4	66.9	68.2
82.5°	36.6	36.6	37.9	39.1	39.1	40.4	41.6	42.9	45.4	46.7	48.0
85°	18.9	18.9	20.2	21.5	22.7	24.0	24.0	25.2	27.8	30.3	31.6
87.5°	6.3	7.6	7.6	8.8	10.1	11.4	12.6	13.9	16.4	18.9	20.2
90°	1.3	1.3	1.3	2.5	3.8	3.8	5.0	6.3	7.6	8.8	11.4
92.5°	11.4	11.4	10.1	11.4	11.4	11.4	11.4	12.6	13.9	13.9	16.4
95°	34.1	32.8	32.8	32.8	32.8	32.8	32.8	34.1	35.3	35.3	36.6
97.5°	65.6	65.6	64.4	64.4	65.6	65.6	65.6	66.9	69.4	68.2	70.7
100°	102.2	102.2	101.0	102.2	103.5	104.8	107.3	107.3	109.8	109.8	113.6
102.5°	143.9	143.9	142.6	145.1	146.4	148.9	148.9	151.4	155.2	155.2	160.3
105°	185.5	186.8	186.8	189.3	191.8	194.4	194.4	198.1	203.2	203.2	209.5
107.5°	231.0	232.2	232.2	234.7	237.3	239.8	241.1	246.1	251.2	252.4	260.0
110°	275.1	276.4	277.7	280.2	282.7	286.5	289.0	294.1	300.4	302.9	309.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	316.8	321.8	323.1	326.9	330.7	334.4	337.0	343.3	350.9	354.6	362.2
115°	364.7	367.3	368.5	372.3	377.4	381.1	383.7	390.0	397.6	402.6	411.4
117.5°	403.9	410.2	411.4	415.2	420.3	424.1	426.6	434.2	443.0	449.3	458.1
120°	445.5	450.6	455.6	458.1	461.9	467.0	469.5	477.1	487.2	493.5	503.6
122.5°	483.4	488.4	493.5	497.3	502.3	504.8	508.6	517.5	527.5	535.1	545.2
125°	521.2	527.5	531.3	535.1	541.4	544.0	547.7	556.6	566.7	575.5	585.6
127.5°	557.8	561.6	567.9	570.5	576.8	579.3	583.1	593.2	603.3	612.1	622.2
130°	591.9	597.0	602.0	603.3	610.8	614.6	618.4	627.3	638.6	647.4	657.5
132.5°	624.7	627.3	633.6	637.3	643.7	647.4	651.2	658.8	670.2	679.0	689.1
135°	655.0	657.5	665.1	668.9	672.7	676.5	681.5	689.1	700.5	709.3	719.4
137.5°	685.3	687.8	695.4	699.2	701.7	705.5	709.3	716.9	728.2	737.1	745.9
140°	713.1	715.6	720.6	725.7	728.2	730.7	734.5	742.1	752.2	761.0	769.9
142.5°	738.3	740.8	745.9	750.9	754.7	754.7	758.5	764.8	776.2	785.0	792.6
145°	762.3	763.6	768.6	773.7	778.7	778.7	780.0	786.3	796.4	806.5	814.0
147.5°	785.0	786.3	790.1	795.1	798.9	800.2	802.7	805.2	815.3	825.4	834.2
150°	805.2	806.5	809.0	814.0	816.6	819.1	821.6	822.9	830.4	839.3	849.4
152.5°	822.9	824.1	826.7	830.4	833.0	835.5	838.0	841.8	845.6	854.4	860.7
155°	840.5	841.8	843.1	846.9	849.4	850.6	851.9	856.9	860.7	865.8	872.1
157.5°	855.7	855.7	856.9	859.5	862.0	862.0	863.3	868.3	872.1	877.1	880.9
160°	868.3	868.3	869.6	872.1	872.1	873.4	874.6	878.4	880.9	887.2	892.3
162.5°	879.7	878.4	879.7	880.9	880.9	880.9	882.2	884.7	888.5	893.5	898.6
165°	888.5	888.5	888.5	889.8	889.8	888.5	888.5	891.0	893.5	897.3	901.1
167.5°	896.1	896.1	894.8	896.1	894.8	894.8	893.5	894.8	896.1	899.9	902.4
170°	902.4	901.1	901.1	901.1	899.9	898.6	898.6	898.6	898.6	901.1	903.6
172.5°	907.4	906.2	904.9	904.9	902.4	901.1	901.1	899.9	899.9	901.1	902.4
175°	908.7	907.4	906.2	906.2	903.6	902.4	901.1	901.1	899.9	901.1	902.4
177.5°	911.2	910.0	907.4	907.4	904.9	902.4	902.4	901.1	899.9	901.1	901.1
180°	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6	503.6
2.5°	506.1	506.1	504.8	503.6	503.6	502.3	501.0	499.8	498.5	497.3
5°	506.1	504.8	503.6	503.6	502.3	502.3	502.3	501.0	499.8	499.8
7.5°	506.1	506.1	504.8	503.6	503.6	503.6	503.6	503.6	502.3	502.3
10°	506.1	504.8	504.8	504.8	503.6	504.8	504.8	503.6	503.6	502.3
12.5°	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	503.6
15°	502.3	503.6	503.6	504.8	504.8	504.8	506.1	506.1	504.8	504.8
17.5°	501.0	502.3	503.6	504.8	504.8	504.8	506.1	506.1	506.1	506.1
20°	498.5	499.8	501.0	502.3	502.3	503.6	503.6	504.8	504.8	504.8
22.5°	493.5	494.7	497.3	498.5	499.8	501.0	502.3	502.3	502.3	502.3
25°	488.4	490.9	492.2	494.7	496.0	497.3	498.5	498.5	498.5	499.8
27.5°	482.1	484.6	488.4	489.7	490.9	492.2	493.5	494.7	494.7	494.7
30°	474.5	478.3	480.9	483.4	484.6	485.9	487.2	487.2	488.4	488.4
32.5°	465.7	469.5	472.0	474.5	475.8	477.1	479.6	479.6	480.9	480.9
35°	454.3	458.1	461.9	464.4	465.7	467.0	469.5	470.8	470.8	470.8
37.5°	443.0	446.8	450.6	454.3	455.6	456.9	459.4	459.4	460.7	460.7
40°	429.1	432.9	436.7	440.5	440.5	443.0	444.3	445.5	446.8	446.8
42.5°	415.2	419.0	421.5	425.3	426.6	427.8	429.1	431.6	431.6	432.9
45°	398.8	402.6	405.1	408.9	410.2	411.4	414.0	415.2	416.5	416.5
47.5°	381.1	383.7	386.2	390.0	392.5	393.8	395.0	396.3	397.6	396.3
50°	361.0	363.5	367.3	371.1	372.3	373.6	376.1	376.1	377.4	377.4
52.5°	339.5	343.3	345.8	349.6	350.9	352.1	354.6	354.6	355.9	355.9
55°	315.5	318.0	320.6	326.9	328.1	329.4	331.9	331.9	333.2	334.4
57.5°	292.8	294.1	297.8	300.4	302.9	302.9	304.2	305.4	306.7	306.7
60°	268.8	270.1	272.6	276.4	276.4	277.7	280.2	280.2	281.4	281.4
62.5°	243.6	246.1	248.6	252.4	251.2	252.4	254.9	254.9	256.2	256.2
65°	218.3	219.6	222.1	224.6	225.9	225.9	227.2	228.4	229.7	229.7
67.5°	191.8	194.4	195.6	199.4	198.1	199.4	200.7	200.7	201.9	201.9
70°	166.6	167.9	170.4	171.6	171.6	172.9	174.2	174.2	174.2	175.4
72.5°	141.4	142.6	143.9	145.1	145.1	146.4	147.7	147.7	148.9	148.9
75°	114.8	117.4	118.6	121.2	119.9	121.2	123.7	123.7	123.7	123.7
77.5°	92.1	93.4	95.9	97.2	97.2	97.2	99.7	98.4	99.7	99.7
80°	69.4	70.7	73.2	74.5	74.5	75.7	77.0	77.0	77.0	78.2
82.5°	49.2	51.7	54.3	55.5	55.5	56.8	58.1	58.1	59.3	59.3
85°	34.1	36.6	39.1	39.1	40.4	41.6	42.9	42.9	42.9	42.9
87.5°	22.7	24.0	25.2	26.5	27.8	27.8	29.0	29.0	30.3	30.3
90°	12.6	13.9	15.1	16.4	16.4	17.7	17.7	18.9	18.9	18.9
92.5°	17.7	17.7	18.9	20.2	20.2	20.2	20.2	21.5	21.5	21.5
95°	37.9	39.1	39.1	41.6	41.6	41.6	42.9	42.9	42.9	42.9
97.5°	73.2	73.2	73.2	75.7	75.7	75.7	77.0	77.0	77.0	78.2
100°	114.8	116.1	116.1	119.9	118.6	121.2	121.2	121.2	121.2	122.4
102.5°	161.5	164.1	165.3	169.1	169.1	169.1	171.6	170.4	171.6	171.6
105°	212.0	214.6	215.8	219.6	222.1	222.1	224.6	223.4	224.6	225.9
107.5°	262.5	266.3	268.8	272.6	275.1	276.4	276.4	277.7	278.9	280.2
110°	314.3	318.0	324.4	328.1	329.4	331.9	333.2	334.4	335.7	338.2





TEST NUMBER: P395572

CATALOG NUMBER: I3-FL-50L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	368.5	372.3	377.4	382.4	381.1	384.9	387.5	388.7	390.0	388.7
115°	417.7	422.8	427.8	432.9	432.9	435.4	440.5	441.7	441.7	444.3
117.5°	464.4	470.8	475.8	480.9	482.1	484.6	488.4	492.2	492.2	494.7
120°	509.9	517.5	522.5	527.5	530.1	531.3	535.1	540.2	540.2	540.2
122.5°	552.8	559.1	565.4	570.5	573.0	575.5	578.0	584.3	584.3	586.9
125°	593.2	600.7	607.1	612.1	614.6	617.2	622.2	626.0	627.3	627.3
127.5°	631.0	638.6	644.9	651.2	652.5	655.0	660.1	665.1	666.4	667.6
130°	666.4	673.9	680.3	686.6	689.1	690.4	696.7	700.5	703.0	704.2
132.5°	697.9	705.5	711.8	718.1	720.6	723.2	727.0	733.3	734.5	734.5
135°	727.0	734.5	740.8	748.4	749.7	752.2	757.2	761.0	763.6	764.8
137.5°	753.5	761.0	768.6	774.9	777.4	778.7	783.7	788.8	791.3	792.6
140°	777.4	785.0	792.6	797.6	798.9	802.7	806.5	811.5	814.0	815.3
142.5°	800.2	806.5	812.8	819.1	820.3	822.9	826.7	831.7	834.2	835.5
145°	820.3	826.7	831.7	836.8	838.0	840.5	844.3	848.1	850.6	851.9
147.5°	839.3	844.3	849.4	853.2	854.4	856.9	859.5	862.0	864.5	865.8
150°	855.7	858.2	863.3	865.8	867.0	869.6	872.1	874.6	877.1	878.4
152.5°	868.3	872.1	874.6	878.4	879.7	880.9	883.5	886.0	888.5	888.5
155°	878.4	882.2	884.7	888.5	889.8	891.0	893.5	894.8	897.3	897.3
157.5°	886.0	889.8	892.3	894.8	896.1	897.3	898.6	901.1	903.6	903.6
160°	894.8	896.1	897.3	899.9	899.9	901.1	902.4	903.6	906.2	906.2
162.5°	902.4	903.6	901.1	902.4	901.1	902.4	903.6	904.9	906.2	906.2
165°	904.9	907.4	906.2	907.4	907.4	907.4	907.4	908.7	908.7	908.7
167.5°	904.9	907.4	906.2	906.2	907.4	907.4	908.7	910.0	910.0	910.0
170°	904.9	906.2	904.9	903.6	904.9	904.9	904.9	906.2	906.2	906.2
172.5°	903.6	904.9	902.4	901.1	901.1	901.1	899.9	899.9	898.6	898.6
175°	902.4	902.4	899.9	898.6	898.6	898.6	896.1	894.8	893.5	892.3
177.5°	901.1	901.1	897.3	896.1	896.1	894.8	894.8	892.3	892.3	891.0
180°	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6	898.6

(END OF REPORT)