

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: P395578

Luminaire Tested: **I3-FL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395578  
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-50L83050-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, FROSTED TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4796.7 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

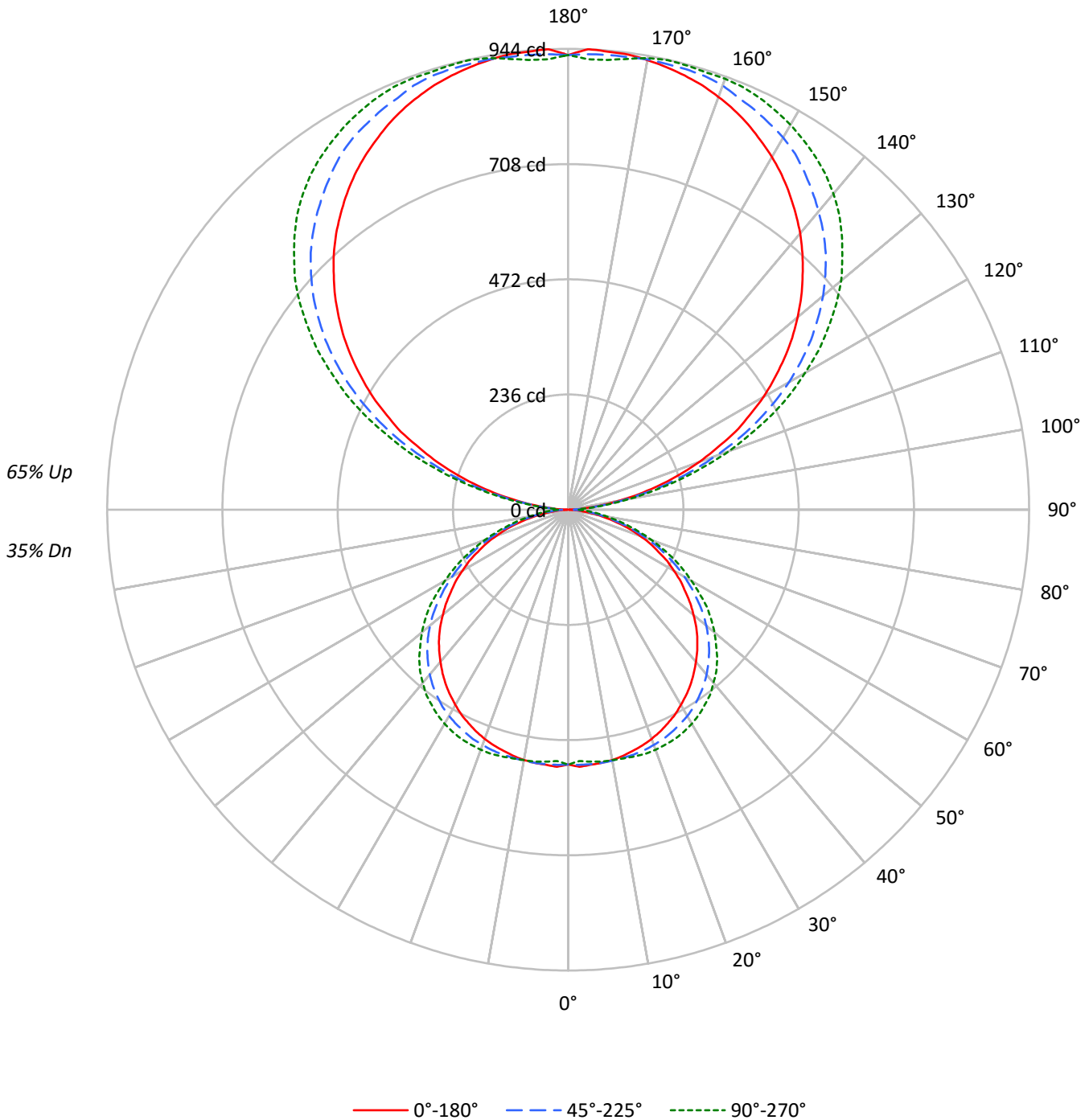
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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°	2869	2869	2869
5°	2883	2821	2777
10°	2884	2782	2744
15°	2877	2759	2733
20°	2878	2735	2729
25°	2870	2710	2719
30°	2860	2685	2694
35°	2847	2642	2654
40°	2818	2586	2596
45°	2789	2506	2517
50°	2726	2396	2393
55°	2647	2244	2250
60°	2558	2068	2033
65°	2432	1853	1806
70°	2259	1579	1525
75°	1966	1255	1213
80°	1535	891	888
85°	832	511	583



TEST NUMBER: P395578

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	1.0
10°-20°	146.4	3.1
20°-30°	230.8	4.8
30°-40°	290.1	6.0
40°-50°	311.9	6.5
50°-60°	286.9	6.0
60°-70°	219.8	4.6
70°-80°	125.2	2.6
80°-90°	39.1	0.8
90°-100°	52.3	1.1
100°-110°	227.3	4.7
110°-120°	416.2	8.7
120°-130°	536.4	11.2
130°-140°	570.8	11.9
140°-150°	525.2	10.9
150°-160°	416.0	8.7
160°-170°	263.4	5.5
170°-180°	89.2	1.9
0°-30°	426.9	8.9
0°-40°	717.0	14.9
0°-60°	1315.8	27.4
0°-90°	1699.8	35.4
90°-120°	695.8	14.5
90°-150°	2328.1	48.5
90°-180°	3097.0	64.6
0°-180°	4796.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	524	519	523	521	518	50
15°	511	509	519	523	523	145
25°	483	484	502	514	518	223
35°	437	442	467	483	488	273
45°	374	383	408	425	432	288
55°	293	305	323	340	347	263
65°	204	211	224	234	238	202
75°	107	110	118	124	128	113
85°	20	25	33	42	44	25
90°	1	4	12	17	20	3
95°	35	34	38	43	44	44
105°	192	201	217	230	234	205
115°	378	395	426	449	460	371
125°	540	564	607	637	650	482
135°	679	701	746	777	793	524
145°	790	807	844	868	883	494
155°	871	882	904	922	930	402
165°	921	921	934	940	942	260
175°	942	935	935	931	925	90
180°	931	931	931	931	931	



TEST NUMBER: P395578

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	527.1	525.8	524.5	521.9	521.9	520.6	520.6	520.6	520.6	521.9	523.2
5°	524.5	524.5	523.2	520.6	520.6	519.3	519.3	520.6	519.3	520.6	523.2
7.5°	523.2	523.2	521.9	519.3	519.3	519.3	519.3	519.3	519.3	520.6	523.2
10°	520.6	520.6	518.0	516.7	516.7	516.7	516.7	518.0	518.0	519.3	521.9
12.5°	516.7	515.4	514.1	512.8	512.8	512.8	514.1	515.4	515.4	518.0	520.6
15°	511.4	511.4	510.1	508.8	508.8	508.8	510.1	511.4	512.8	515.4	519.3
17.5°	506.2	506.2	504.9	504.9	504.9	504.9	506.2	507.5	510.1	512.8	516.7
20°	499.7	499.7	498.4	498.4	498.4	499.7	499.7	502.3	504.9	508.8	512.8
22.5°	491.8	491.8	491.8	490.5	491.8	493.1	494.4	497.1	499.7	503.6	508.8
25°	482.7	482.7	482.7	482.7	484.0	484.0	486.6	489.2	491.8	497.1	502.3
27.5°	473.5	473.5	473.5	472.2	474.8	476.1	477.4	481.4	484.0	490.5	495.7
30°	461.7	461.7	461.7	463.0	464.4	465.7	468.3	472.2	474.8	481.4	487.9
32.5°	450.0	450.0	450.0	450.0	453.9	455.2	456.5	460.4	465.7	472.2	478.7
35°	436.9	436.9	436.9	438.2	440.8	442.1	444.7	448.7	453.9	460.4	467.0
37.5°	422.5	423.8	423.8	425.1	427.7	430.3	433.0	436.9	442.1	448.7	455.2
40°	406.8	408.1	408.1	409.4	412.0	414.6	417.3	422.5	427.7	434.3	440.8
42.5°	391.1	392.4	392.4	395.0	397.6	400.3	402.9	408.1	413.3	419.9	425.1
45°	374.1	375.4	375.4	378.0	381.9	383.3	387.2	392.4	397.6	402.9	408.1
47.5°	355.8	357.1	357.1	359.7	363.6	366.3	368.9	374.1	378.0	384.6	389.8
50°	334.9	336.2	337.5	340.1	345.3	347.9	350.6	354.5	359.7	363.6	368.9
52.5°	315.2	315.2	316.5	319.2	323.1	325.7	327.0	330.9	337.5	342.7	347.9
55°	293.0	294.3	295.6	298.2	302.2	304.8	306.1	310.0	313.9	317.9	323.1
57.5°	273.4	273.4	274.7	277.3	281.2	282.5	283.8	286.5	291.7	295.6	299.5
60°	249.8	251.1	252.5	255.1	257.7	260.3	260.3	264.2	268.1	272.1	274.7
62.5°	228.9	228.9	230.2	232.8	234.1	236.8	236.8	240.7	243.3	247.2	249.8
65°	204.1	205.4	206.7	208.0	210.6	210.6	211.9	214.5	217.1	219.8	223.7
67.5°	181.8	181.8	183.1	184.4	185.7	185.7	187.0	189.7	192.3	194.9	197.5
70°	157.0	158.3	158.3	158.3	159.6	160.9	162.2	163.5	166.1	167.4	170.0
72.5°	132.1	132.1	133.4	133.4	134.7	136.0	137.3	138.7	140.0	142.6	143.9
75°	107.3	107.3	108.6	108.6	109.9	109.9	109.9	112.5	113.8	116.4	117.7
77.5°	82.4	83.7	83.7	83.7	85.0	86.3	86.3	87.6	90.3	91.6	92.9
80°	60.2	60.2	60.2	60.2	61.5	62.8	64.1	64.1	66.7	69.3	70.6
82.5°	37.9	37.9	39.2	40.5	40.5	41.9	43.2	44.5	47.1	48.4	49.7
85°	19.6	19.6	20.9	22.2	23.5	24.9	24.9	26.2	28.8	31.4	32.7
87.5°	6.5	7.8	7.8	9.2	10.5	11.8	13.1	14.4	17.0	19.6	20.9
90°	1.3	1.3	1.3	2.6	3.9	3.9	5.2	6.5	7.8	9.2	11.8
92.5°	11.8	11.8	10.5	11.8	11.8	11.8	11.8	13.1	14.4	14.4	17.0
95°	35.3	34.0	34.0	34.0	34.0	34.0	34.0	35.3	36.6	36.6	37.9
97.5°	68.0	68.0	66.7	66.7	68.0	68.0	68.0	69.3	71.9	70.6	73.3
100°	106.0	106.0	104.6	106.0	107.3	108.6	111.2	111.2	113.8	113.8	117.7
102.5°	149.1	149.1	147.8	150.4	151.7	154.3	154.3	157.0	160.9	160.9	166.1
105°	192.3	193.6	193.6	196.2	198.8	201.4	201.4	205.4	210.6	210.6	217.1
107.5°	239.4	240.7	240.7	243.3	245.9	248.5	249.8	255.1	260.3	261.6	269.5
110°	285.2	286.5	287.8	290.4	293.0	296.9	299.5	304.8	311.3	313.9	320.5



TEST NUMBER: P395578

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	328.3	333.5	334.9	338.8	342.7	346.6	349.2	355.8	363.6	367.6	375.4
115°	378.0	380.6	381.9	385.9	391.1	395.0	397.6	404.2	412.0	417.3	426.4
117.5°	418.6	425.1	426.4	430.3	435.6	439.5	442.1	450.0	459.1	465.7	474.8
120°	461.7	467.0	472.2	474.8	478.7	484.0	486.6	494.4	504.9	511.4	521.9
122.5°	501.0	506.2	511.4	515.4	520.6	523.2	527.1	536.3	546.8	554.6	565.1
125°	540.2	546.8	550.7	554.6	561.1	563.8	567.7	576.8	587.3	596.5	606.9
127.5°	578.2	582.1	588.6	591.2	597.8	600.4	604.3	614.8	625.2	634.4	644.9
130°	613.5	618.7	623.9	625.2	633.1	637.0	640.9	650.1	661.9	671.0	681.5
132.5°	647.5	650.1	656.6	660.6	667.1	671.0	674.9	682.8	694.6	703.7	714.2
135°	678.9	681.5	689.3	693.3	697.2	701.1	706.3	714.2	726.0	735.1	745.6
137.5°	710.3	712.9	720.7	724.7	727.3	731.2	735.1	743.0	754.7	763.9	773.0
140°	739.0	741.7	746.9	752.1	754.7	757.4	761.3	769.1	779.6	788.7	797.9
142.5°	765.2	767.8	773.0	778.3	782.2	782.2	786.1	792.7	804.4	813.6	821.4
145°	790.1	791.4	796.6	801.8	807.1	807.1	808.4	814.9	825.4	835.8	843.7
147.5°	813.6	814.9	818.8	824.1	828.0	829.3	831.9	834.5	845.0	855.5	864.6
150°	834.5	835.8	838.5	843.7	846.3	848.9	851.5	852.8	860.7	869.8	880.3
152.5°	852.8	854.1	856.8	860.7	863.3	865.9	868.5	872.5	876.4	885.5	892.1
155°	871.2	872.5	873.8	877.7	880.3	881.6	882.9	888.2	892.1	897.3	903.9
157.5°	886.8	886.8	888.2	890.8	893.4	893.4	894.7	899.9	903.9	909.1	913.0
160°	899.9	899.9	901.2	903.9	903.9	905.2	906.5	910.4	913.0	919.5	924.8
162.5°	911.7	910.4	911.7	913.0	913.0	913.0	914.3	916.9	920.9	926.1	931.3
165°	920.9	920.9	920.9	922.2	922.2	920.9	920.9	923.5	926.1	930.0	933.9
167.5°	928.7	928.7	927.4	928.7	927.4	927.4	926.1	927.4	928.7	932.6	935.2
170°	935.2	933.9	933.9	933.9	932.6	931.3	931.3	931.3	931.3	933.9	936.6
172.5°	940.5	939.2	937.9	937.9	935.2	933.9	933.9	932.6	932.6	933.9	935.2
175°	941.8	940.5	939.2	939.2	936.6	935.2	933.9	933.9	932.6	933.9	935.2
177.5°	944.4	943.1	940.5	940.5	937.9	935.2	935.2	933.9	932.6	933.9	933.9
180°	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3



TEST NUMBER: P395578

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	524.5	524.5	523.2	521.9	521.9	520.6	519.3	518.0	516.7	515.4
5°	524.5	523.2	521.9	521.9	520.6	520.6	520.6	519.3	518.0	518.0
7.5°	524.5	524.5	523.2	521.9	521.9	521.9	521.9	521.9	520.6	520.6
10°	524.5	523.2	523.2	523.2	521.9	523.2	523.2	521.9	521.9	520.6
12.5°	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	521.9
15°	520.6	521.9	521.9	523.2	523.2	523.2	524.5	524.5	523.2	523.2
17.5°	519.3	520.6	521.9	523.2	523.2	523.2	524.5	524.5	524.5	524.5
20°	516.7	518.0	519.3	520.6	520.6	521.9	521.9	523.2	523.2	523.2
22.5°	511.4	512.8	515.4	516.7	518.0	519.3	520.6	520.6	520.6	520.6
25°	506.2	508.8	510.1	512.8	514.1	515.4	516.7	516.7	516.7	518.0
27.5°	499.7	502.3	506.2	507.5	508.8	510.1	511.4	512.8	512.8	512.8
30°	491.8	495.7	498.4	501.0	502.3	503.6	504.9	504.9	506.2	506.2
32.5°	482.7	486.6	489.2	491.8	493.1	494.4	497.1	497.1	498.4	498.4
35°	470.9	474.8	478.7	481.4	482.7	484.0	486.6	487.9	487.9	487.9
37.5°	459.1	463.0	467.0	470.9	472.2	473.5	476.1	476.1	477.4	477.4
40°	444.7	448.7	452.6	456.5	456.5	459.1	460.4	461.7	463.0	463.0
42.5°	430.3	434.3	436.9	440.8	442.1	443.4	444.7	447.3	447.3	448.7
45°	413.3	417.3	419.9	423.8	425.1	426.4	429.0	430.3	431.7	431.7
47.5°	395.0	397.6	400.3	404.2	406.8	408.1	409.4	410.7	412.0	410.7
50°	374.1	376.7	380.6	384.6	385.9	387.2	389.8	389.8	391.1	391.1
52.5°	351.9	355.8	358.4	362.3	363.6	364.9	367.6	367.6	368.9	368.9
55°	327.0	329.6	332.2	338.8	340.1	341.4	344.0	344.0	345.3	346.6
57.5°	303.5	304.8	308.7	311.3	313.9	313.9	315.2	316.5	317.9	317.9
60°	278.6	279.9	282.5	286.5	286.5	287.8	290.4	290.4	291.7	291.7
62.5°	252.5	255.1	257.7	261.6	260.3	261.6	264.2	264.2	265.5	265.5
65°	226.3	227.6	230.2	232.8	234.1	234.1	235.4	236.8	238.1	238.1
67.5°	198.8	201.4	202.7	206.7	205.4	206.7	208.0	208.0	209.3	209.3
70°	172.7	174.0	176.6	177.9	177.9	179.2	180.5	180.5	180.5	181.8
72.5°	146.5	147.8	149.1	150.4	150.4	151.7	153.0	153.0	154.3	154.3
75°	119.0	121.6	123.0	125.6	124.3	125.6	128.2	128.2	128.2	128.2
77.5°	95.5	96.8	99.4	100.7	100.7	100.7	103.3	102.0	103.3	103.3
80°	71.9	73.3	75.9	77.2	77.2	78.5	79.8	79.8	79.8	81.1
82.5°	51.0	53.6	56.2	57.6	57.6	58.9	60.2	60.2	61.5	61.5
85°	35.3	37.9	40.5	40.5	41.9	43.2	44.5	44.5	44.5	44.5
87.5°	23.5	24.9	26.2	27.5	28.8	28.8	30.1	30.1	31.4	31.4
90°	13.1	14.4	15.7	17.0	17.0	18.3	18.3	19.6	19.6	19.6
92.5°	18.3	18.3	19.6	20.9	20.9	20.9	20.9	22.2	22.2	22.2
95°	39.2	40.5	40.5	43.2	43.2	43.2	44.5	44.5	44.5	44.5
97.5°	75.9	75.9	75.9	78.5	78.5	78.5	79.8	79.8	79.8	81.1
100°	119.0	120.3	120.3	124.3	123.0	125.6	125.6	125.6	125.6	126.9
102.5°	167.4	170.0	171.4	175.3	175.3	175.3	177.9	176.6	177.9	177.9
105°	219.8	222.4	223.7	227.6	230.2	230.2	232.8	231.5	232.8	234.1
107.5°	272.1	276.0	278.6	282.5	285.2	286.5	286.5	287.8	289.1	290.4
110°	325.7	329.6	336.2	340.1	341.4	344.0	345.3	346.6	347.9	350.6





TEST NUMBER: P395578

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	381.9	385.9	391.1	396.3	395.0	399.0	401.6	402.9	404.2	402.9
115°	433.0	438.2	443.4	448.7	448.7	451.3	456.5	457.8	457.8	460.4
117.5°	481.4	487.9	493.1	498.4	499.7	502.3	506.2	510.1	510.1	512.8
120°	528.4	536.3	541.5	546.8	549.4	550.7	554.6	559.8	559.8	559.8
122.5°	572.9	579.5	586.0	591.2	593.8	596.5	599.1	605.6	605.6	608.2
125°	614.8	622.6	629.2	634.4	637.0	639.6	644.9	648.8	650.1	650.1
127.5°	654.0	661.9	668.4	674.9	676.3	678.9	684.1	689.3	690.6	692.0
130°	690.6	698.5	705.0	711.6	714.2	715.5	722.0	726.0	728.6	729.9
132.5°	723.3	731.2	737.7	744.3	746.9	749.5	753.4	760.0	761.3	761.3
135°	753.4	761.3	767.8	775.7	777.0	779.6	784.8	788.7	791.4	792.7
137.5°	780.9	788.7	796.6	803.1	805.8	807.1	812.3	817.5	820.1	821.4
140°	805.8	813.6	821.4	826.7	828.0	831.9	835.8	841.1	843.7	845.0
142.5°	829.3	835.8	842.4	848.9	850.2	852.8	856.8	862.0	864.6	865.9
145°	850.2	856.8	862.0	867.2	868.5	871.2	875.1	879.0	881.6	882.9
147.5°	869.8	875.1	880.3	884.2	885.5	888.2	890.8	893.4	896.0	897.3
150°	886.8	889.5	894.7	897.3	898.6	901.2	903.9	906.5	909.1	910.4
152.5°	899.9	903.9	906.5	910.4	911.7	913.0	915.6	918.2	920.9	920.9
155°	910.4	914.3	916.9	920.9	922.2	923.5	926.1	927.4	930.0	930.0
157.5°	918.2	922.2	924.8	927.4	928.7	930.0	931.3	933.9	936.6	936.6
160°	927.4	928.7	930.0	932.6	932.6	933.9	935.2	936.6	939.2	939.2
162.5°	935.2	936.6	933.9	935.2	933.9	935.2	936.6	937.9	939.2	939.2
165°	937.9	940.5	939.2	940.5	940.5	940.5	940.5	941.8	941.8	941.8
167.5°	937.9	940.5	939.2	939.2	940.5	940.5	941.8	943.1	943.1	943.1
170°	937.9	939.2	937.9	936.6	937.9	937.9	937.9	939.2	939.2	939.2
172.5°	936.6	937.9	935.2	933.9	933.9	933.9	932.6	932.6	931.3	931.3
175°	935.2	935.2	932.6	931.3	931.3	931.3	928.7	927.4	926.1	924.8
177.5°	933.9	933.9	930.0	928.7	928.7	927.4	927.4	924.8	924.8	923.5
180°	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3	931.3

(END OF REPORT)