

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: P395420

Luminaire Tested: **I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, CLEAR TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4368.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

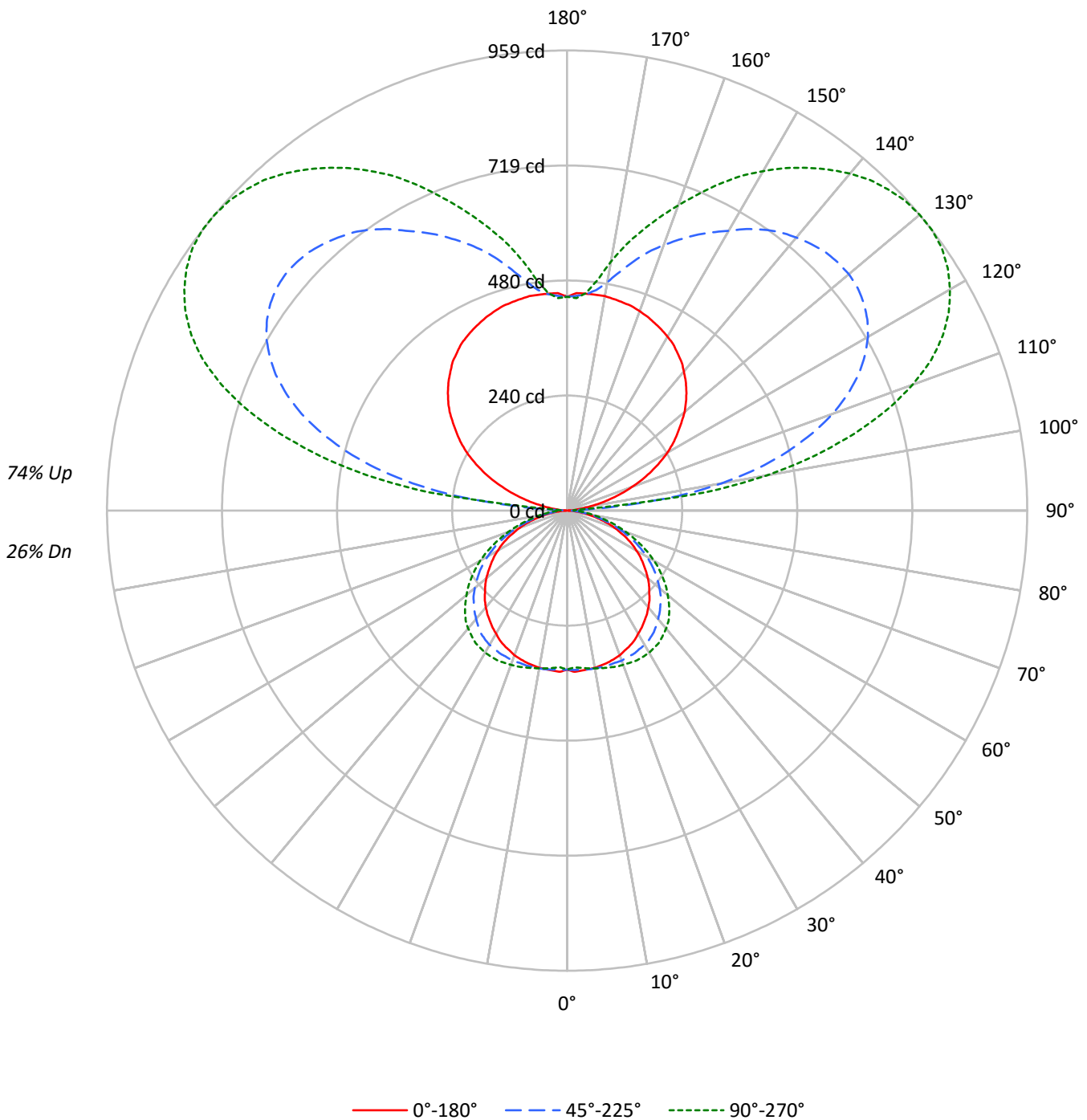
Input Watts (W): 35.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395420

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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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

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

	0°	45°	90°
0°	1822	1822	1822
5°	1841	1793	1764
10°	1843	1780	1760
15°	1845	1773	1768
20°	1848	1774	1784
25°	1845	1776	1808
30°	1835	1778	1820
35°	1830	1769	1822
40°	1824	1731	1799
45°	1805	1689	1754
50°	1789	1633	1676
55°	1752	1551	1580
60°	1709	1442	1458
65°	1639	1295	1292
70°	1522	1102	1095
75°	1314	877	879
80°	1020	624	644
85°	598	386	431



TEST NUMBER: P395420

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	0.7
10°-20°	94.2	2.2
20°-30°	151.1	3.5
30°-40°	193.2	4.4
40°-50°	210.7	4.8
50°-60°	197.4	4.5
60°-70°	153.1	3.5
70°-80°	87.8	2.0
80°-90°	28.1	0.6
90°-100°	112.7	2.6
100°-110°	437.9	10.0
110°-120°	596.2	13.6
120°-130°	618.9	14.2
130°-140°	549.0	12.6
140°-150°	426.0	9.8
150°-160°	284.3	6.5
160°-170°	151.5	3.5
170°-180°	44.3	1.0
0°-30°	277.0	6.3
0°-40°	470.2	10.8
0°-60°	878.2	20.1
0°-90°	1147.2	26.3
90°-120°	1146.8	26.3
90°-150°	2740.7	62.7
90°-180°	3221.0	73.7
0°-180°	4368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	335	332	333	332	329	32
15°	328	327	334	338	338	93
25°	310	313	329	341	344	143
35°	281	287	313	329	335	176
45°	242	253	275	293	301	187
55°	194	204	223	239	243	173
65°	138	143	156	167	170	136
75°	72	75	82	90	93	77
85°	14	16	25	32	33	17
90°	1	4	8	12	14	2
95°	14	80	109	22	21	19
105°	93	281	476	565	619	99
115°	194	434	670	788	864	191
125°	281	511	755	886	953	251
135°	351	538	762	893	946	271
145°	401	538	715	830	872	251
155°	431	509	634	718	751	199
165°	449	468	538	589	604	127
175°	454	451	452	455	455	43
180°	446	446	446	446	446	



TEST NUMBER: P395420

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	336.2	335.0	335.0	332.6	332.6	331.5	331.5	331.5	331.5	331.5	332.6
5°	335.0	335.0	333.8	332.6	332.6	331.5	331.5	331.5	331.5	331.5	332.6
7.5°	333.8	333.8	332.6	331.5	331.5	331.5	331.5	331.5	331.5	331.5	333.8
10°	332.6	332.6	331.5	330.3	330.3	330.3	330.3	331.5	331.5	331.5	333.8
12.5°	330.3	329.1	329.1	327.9	327.9	327.9	329.1	329.1	330.3	331.5	333.8
15°	327.9	327.9	326.8	325.6	326.8	326.8	326.8	327.9	329.1	330.3	333.8
17.5°	324.4	324.4	323.2	323.2	323.2	324.4	324.4	325.6	327.9	330.3	332.6
20°	320.9	319.7	319.7	319.7	320.9	320.9	322.1	324.4	325.6	329.1	332.6
22.5°	315.0	316.2	315.0	315.0	316.2	317.4	318.5	320.9	323.2	326.8	330.3
25°	310.3	310.3	310.3	310.3	312.7	312.7	315.0	317.4	320.9	324.4	329.1
27.5°	304.4	304.4	304.4	305.6	306.8	308.0	309.1	312.7	316.2	320.9	325.6
30°	296.2	296.2	296.2	296.2	299.7	300.9	303.3	308.0	311.5	317.4	323.2
32.5°	289.2	289.2	289.2	290.3	292.7	293.9	296.2	302.1	306.8	312.7	318.5
35°	280.9	280.9	282.1	282.1	285.6	286.8	289.2	293.9	298.6	305.6	312.7
37.5°	272.7	272.7	273.9	275.0	277.4	279.7	282.1	286.8	291.5	297.4	304.4
40°	263.3	263.3	264.5	265.6	269.2	271.5	273.9	278.6	283.3	289.2	295.0
42.5°	253.9	253.9	255.1	256.2	259.8	262.1	264.5	270.3	275.0	280.9	285.6
45°	242.1	243.3	244.5	246.8	250.4	252.7	255.1	259.8	265.6	270.3	275.0
47.5°	231.6	232.7	233.9	236.3	239.8	242.1	244.5	249.2	253.9	258.6	264.5
50°	219.8	221.0	222.2	224.5	228.0	230.4	232.7	237.4	242.1	245.7	251.5
52.5°	206.9	208.0	209.2	211.6	216.3	217.5	219.8	224.5	228.0	232.7	237.4
55°	193.9	195.1	196.3	198.6	202.2	204.5	205.7	210.4	213.9	218.6	223.3
57.5°	181.0	182.2	183.4	185.7	188.1	190.4	191.6	195.1	199.8	203.3	208.0
60°	166.9	168.1	169.3	170.4	174.0	175.1	176.3	179.8	183.4	188.1	191.6
62.5°	152.8	152.8	154.0	155.2	158.7	159.9	161.0	163.4	168.1	170.4	174.0
65°	137.5	137.5	138.7	139.9	142.2	143.4	144.6	146.9	150.5	152.8	156.3
67.5°	121.1	121.1	122.2	123.4	125.8	126.9	126.9	130.5	132.8	135.2	137.5
70°	105.8	105.8	107.0	107.0	108.1	109.3	110.5	112.8	114.0	117.5	118.7
72.5°	89.3	89.3	89.3	89.3	91.7	91.7	92.9	95.2	96.4	98.7	101.1
75°	71.7	71.7	72.9	72.9	74.1	75.2	76.4	77.6	79.9	81.1	82.3
77.5°	56.4	55.2	56.4	57.6	58.8	58.8	59.9	61.1	62.3	64.6	65.8
80°	40.0	40.0	40.0	41.1	42.3	42.3	43.5	44.7	45.8	48.2	49.4
82.5°	25.9	25.9	27.0	27.0	28.2	29.4	29.4	30.6	31.7	34.1	35.3
85°	14.1	14.1	14.1	15.3	16.5	16.5	17.6	18.8	21.2	22.3	24.7
87.5°	4.7	4.7	5.9	7.1	8.2	8.2	9.4	10.6	11.8	14.1	15.3
90°	1.2	1.2	1.2	2.4	2.4	3.5	3.5	4.7	5.9	7.1	8.2
92.5°	4.7	8.2	12.9	18.8	17.6	18.8	12.9	8.2	8.2	8.2	9.4
95°	14.1	21.2	34.1	54.1	70.5	79.9	88.2	96.4	112.8	114.0	109.3
97.5°	28.2	38.8	62.3	88.2	117.5	132.8	144.6	169.3	195.1	211.6	231.6
100°	47.0	62.3	92.9	128.1	162.2	182.2	201.0	236.3	268.0	296.2	326.8
102.5°	69.3	87.0	124.6	168.1	210.4	232.7	252.7	293.9	337.3	375.0	407.9
105°	92.9	112.8	157.5	206.9	255.1	280.9	305.6	350.3	396.1	437.3	476.0
107.5°	118.7	139.9	188.1	243.3	297.4	326.8	353.8	402.0	450.2	494.8	536.0
110°	143.4	166.9	217.5	277.4	338.5	367.9	394.9	447.8	498.4	545.4	588.9



TEST NUMBER: P395420

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	169.3	193.9	244.5	310.3	372.6	403.2	431.4	487.8	540.7	588.9	632.4
115°	193.9	217.5	270.3	338.5	402.0	433.7	464.3	521.9	577.1	625.3	670.0
117.5°	217.5	239.8	293.9	362.0	427.8	459.6	490.1	550.1	605.3	655.9	699.4
120°	241.0	260.9	319.7	382.0	449.0	480.7	512.5	572.4	628.8	679.4	724.1
122.5°	262.1	280.9	338.5	399.6	465.5	498.4	528.9	590.1	647.6	698.2	741.7
125°	280.9	298.6	356.1	413.7	479.6	511.3	543.0	603.0	660.6	709.9	754.6
127.5°	299.7	317.4	369.1	427.8	489.0	521.9	552.4	612.4	668.8	719.3	762.8
130°	319.7	332.6	382.0	440.8	498.4	528.9	560.7	618.3	673.5	722.9	766.4
132.5°	336.2	347.9	394.9	451.4	505.4	534.8	563.0	620.6	675.9	722.9	765.2
135°	351.4	360.9	404.3	460.8	511.3	538.3	565.4	619.4	673.5	720.5	761.7
137.5°	365.6	375.0	412.6	467.8	516.0	539.5	565.4	615.9	667.6	714.6	753.4
140°	378.5	385.5	419.6	471.3	518.4	540.7	563.0	610.0	658.2	704.1	742.9
142.5°	391.4	397.3	425.5	473.7	519.5	540.7	561.8	603.0	647.6	692.3	731.1
145°	400.8	406.7	430.2	474.9	518.4	538.3	557.1	595.9	635.9	677.0	714.6
147.5°	411.4	416.1	434.9	472.5	514.8	533.6	551.3	586.5	623.0	660.6	695.8
150°	418.4	423.1	437.3	470.2	509.0	526.6	544.2	577.1	610.0	642.9	673.5
152.5°	425.5	429.0	440.8	466.6	501.9	518.4	534.8	566.5	597.1	626.5	653.5
155°	431.4	434.9	443.1	464.3	493.7	509.0	524.2	554.8	583.0	608.9	633.5
157.5°	437.3	439.6	445.5	460.8	484.3	498.4	512.5	539.5	565.4	591.2	611.2
160°	442.0	443.1	447.8	459.6	476.0	486.6	499.5	524.2	547.7	570.1	588.9
162.5°	446.7	446.7	450.2	457.2	469.0	476.0	485.4	506.6	527.8	547.7	565.4
165°	449.0	449.0	451.4	456.1	463.1	467.8	473.7	487.8	504.3	521.9	538.3
167.5°	451.4	451.4	452.5	454.9	459.6	461.9	464.3	473.7	484.3	497.2	510.1
170°	453.7	452.5	452.5	454.9	456.1	457.2	458.4	463.1	467.8	476.0	483.1
172.5°	453.7	452.5	452.5	453.7	453.7	453.7	453.7	454.9	456.1	460.8	463.1
175°	453.7	452.5	452.5	452.5	452.5	451.4	451.4	451.4	451.4	451.4	452.5
177.5°	453.7	452.5	451.4	451.4	450.2	450.2	449.0	449.0	447.8	447.8	447.8
180°	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	332.6	332.6	331.5	331.5	330.3	330.3	329.1	327.9	326.8	326.8
5°	333.8	332.6	331.5	331.5	331.5	330.3	330.3	330.3	329.1	329.1
7.5°	333.8	333.8	333.8	332.6	332.6	332.6	332.6	332.6	331.5	331.5
10°	335.0	335.0	335.0	335.0	335.0	335.0	335.0	333.8	333.8	333.8
12.5°	335.0	335.0	335.0	336.2	336.2	336.2	336.2	336.2	336.2	336.2
15°	336.2	336.2	337.3	337.3	338.5	338.5	339.7	339.7	339.7	338.5
17.5°	335.0	336.2	337.3	338.5	339.7	339.7	340.9	340.9	340.9	340.9
20°	335.0	337.3	338.5	339.7	340.9	340.9	342.0	343.2	343.2	342.0
22.5°	333.8	336.2	337.3	339.7	340.9	340.9	343.2	343.2	343.2	343.2
25°	332.6	335.0	337.3	339.7	340.9	340.9	343.2	343.2	344.4	344.4
27.5°	330.3	332.6	336.2	338.5	339.7	340.9	342.0	343.2	343.2	343.2
30°	326.8	330.3	333.8	336.2	337.3	338.5	339.7	340.9	342.0	342.0
32.5°	322.1	325.6	329.1	332.6	333.8	335.0	337.3	338.5	338.5	338.5
35°	317.4	320.9	324.4	327.9	329.1	330.3	332.6	333.8	335.0	335.0
37.5°	310.3	313.8	317.4	320.9	322.1	324.4	326.8	327.9	327.9	327.9
40°	299.7	305.6	310.3	313.8	315.0	317.4	318.5	320.9	320.9	320.9
42.5°	290.3	295.0	298.6	303.3	304.4	308.0	310.3	311.5	312.7	312.7
45°	279.7	284.4	288.0	291.5	292.7	295.0	297.4	298.6	299.7	300.9
47.5°	269.2	272.7	276.2	279.7	280.9	283.3	285.6	286.8	288.0	288.0
50°	256.2	259.8	263.3	266.8	268.0	270.3	271.5	272.7	273.9	273.9
52.5°	242.1	245.7	249.2	252.7	253.9	255.1	257.4	258.6	259.8	259.8
55°	228.0	231.6	233.9	237.4	238.6	239.8	241.0	243.3	244.5	243.3
57.5°	211.6	215.1	217.5	221.0	222.2	223.3	224.5	225.7	226.9	226.9
60°	193.9	197.5	201.0	203.3	204.5	205.7	206.9	208.0	209.2	209.2
62.5°	176.3	179.8	182.2	185.7	186.9	186.9	188.1	189.2	190.4	190.4
65°	158.7	162.2	163.4	166.9	166.9	168.1	169.3	170.4	170.4	170.4
67.5°	139.9	143.4	144.6	146.9	146.9	148.1	149.3	150.5	150.5	150.5
70°	122.2	123.4	125.8	126.9	128.1	128.1	129.3	130.5	131.6	130.5
72.5°	103.4	104.6	107.0	108.1	108.1	109.3	109.3	110.5	111.7	111.7
75°	84.6	87.0	88.2	89.3	90.5	90.5	91.7	92.9	92.9	92.9
77.5°	67.0	69.3	70.5	71.7	72.9	72.9	74.1	74.1	75.2	74.1
80°	51.7	52.9	54.1	55.2	56.4	56.4	57.6	58.8	58.8	58.8
82.5°	37.6	38.8	41.1	42.3	42.3	42.3	44.7	44.7	45.8	44.7
85°	25.9	27.0	29.4	30.6	31.7	31.7	31.7	32.9	34.1	32.9
87.5°	16.5	18.8	20.0	21.2	21.2	21.2	22.3	23.5	23.5	23.5
90°	9.4	9.4	10.6	11.8	11.8	12.9	12.9	14.1	14.1	14.1
92.5°	9.4	10.6	10.6	10.6	11.8	11.8	11.8	12.9	12.9	12.9
95°	79.9	57.6	32.9	25.9	22.3	22.3	21.2	22.3	21.2	21.2
97.5°	242.1	262.1	271.5	284.4	291.5	290.3	285.6	290.3	286.8	290.3
100°	344.4	363.2	377.3	380.8	387.9	391.4	404.3	413.7	418.4	424.3
102.5°	427.8	450.2	466.6	476.0	483.1	487.8	503.1	517.2	524.2	528.9
105°	504.3	527.8	547.7	557.1	565.4	570.1	586.5	603.0	613.6	619.4
107.5°	565.4	592.4	613.6	627.7	635.9	644.1	664.1	680.6	693.5	699.4
110°	620.6	647.6	670.0	686.4	695.8	704.1	726.4	745.2	759.3	766.4





TEST NUMBER: P395420

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	666.5	695.8	718.2	735.8	745.2	757.0	778.1	799.3	813.4	821.6
115°	704.1	734.6	758.1	776.9	787.5	798.1	822.8	843.9	858.0	863.9
117.5°	735.8	766.4	791.0	809.9	821.6	833.4	858.0	876.9	892.1	896.8
120°	761.7	792.2	816.9	838.1	849.8	860.4	883.9	903.9	918.0	921.5
122.5°	779.3	811.0	836.9	860.4	871.0	881.6	903.9	923.9	936.8	940.3
125°	792.2	825.1	851.0	875.7	886.3	896.8	918.0	938.0	948.6	953.3
127.5°	800.5	833.4	861.6	885.1	896.8	906.2	927.4	945.0	955.6	959.1
130°	802.8	836.9	865.1	889.8	900.4	909.8	929.7	947.4	956.8	959.1
132.5°	802.8	835.7	865.1	888.6	899.2	908.6	927.4	943.9	953.3	955.6
135°	798.1	829.8	859.2	882.7	893.3	902.7	921.5	935.6	945.0	946.2
137.5°	789.9	820.4	848.6	872.2	882.7	892.1	908.6	923.9	932.1	934.4
140°	779.3	807.5	835.7	858.0	868.6	876.9	893.3	906.2	914.5	916.8
142.5°	765.2	793.4	819.3	841.6	849.8	859.2	873.3	886.3	893.3	895.7
145°	749.9	776.9	800.5	820.4	829.8	838.1	851.0	862.7	869.8	872.2
147.5°	729.9	757.0	779.3	798.1	806.3	814.6	826.3	836.9	843.9	846.3
150°	705.2	729.9	753.4	771.1	779.3	787.5	799.3	808.7	815.7	816.9
152.5°	680.6	704.1	724.1	741.7	749.9	758.1	768.7	778.1	786.3	786.3
155°	657.1	677.0	695.8	711.1	718.2	725.2	735.8	744.0	751.1	751.1
157.5°	632.4	651.2	666.5	680.6	686.4	692.3	701.7	708.8	714.6	713.5
160°	608.9	623.0	637.1	648.8	654.7	659.4	666.5	672.3	678.2	677.0
162.5°	583.0	595.9	607.7	615.9	620.6	624.1	631.2	637.1	640.6	640.6
165°	553.6	565.4	575.9	584.2	588.9	591.2	597.1	600.6	604.2	604.2
167.5°	523.1	532.5	541.9	548.9	553.6	556.0	561.8	564.2	568.9	567.7
170°	492.5	499.5	506.6	512.5	514.8	517.2	521.9	524.2	526.6	526.6
172.5°	467.8	470.2	473.7	478.4	478.4	479.6	481.9	483.1	484.3	484.3
175°	453.7	454.9	454.9	454.9	454.9	454.9	456.1	454.9	456.1	454.9
177.5°	447.8	447.8	446.7	446.7	445.5	446.7	445.5	444.3	444.3	443.1
180°	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5	445.5

(END OF REPORT)