

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: P395434

Luminaire Tested: **I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395434  
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-50L93050-1D-UNV-W2A-W-4 (3500K)  
Description: CORELITE I3, CLEAR TOP COVER  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3924.7 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

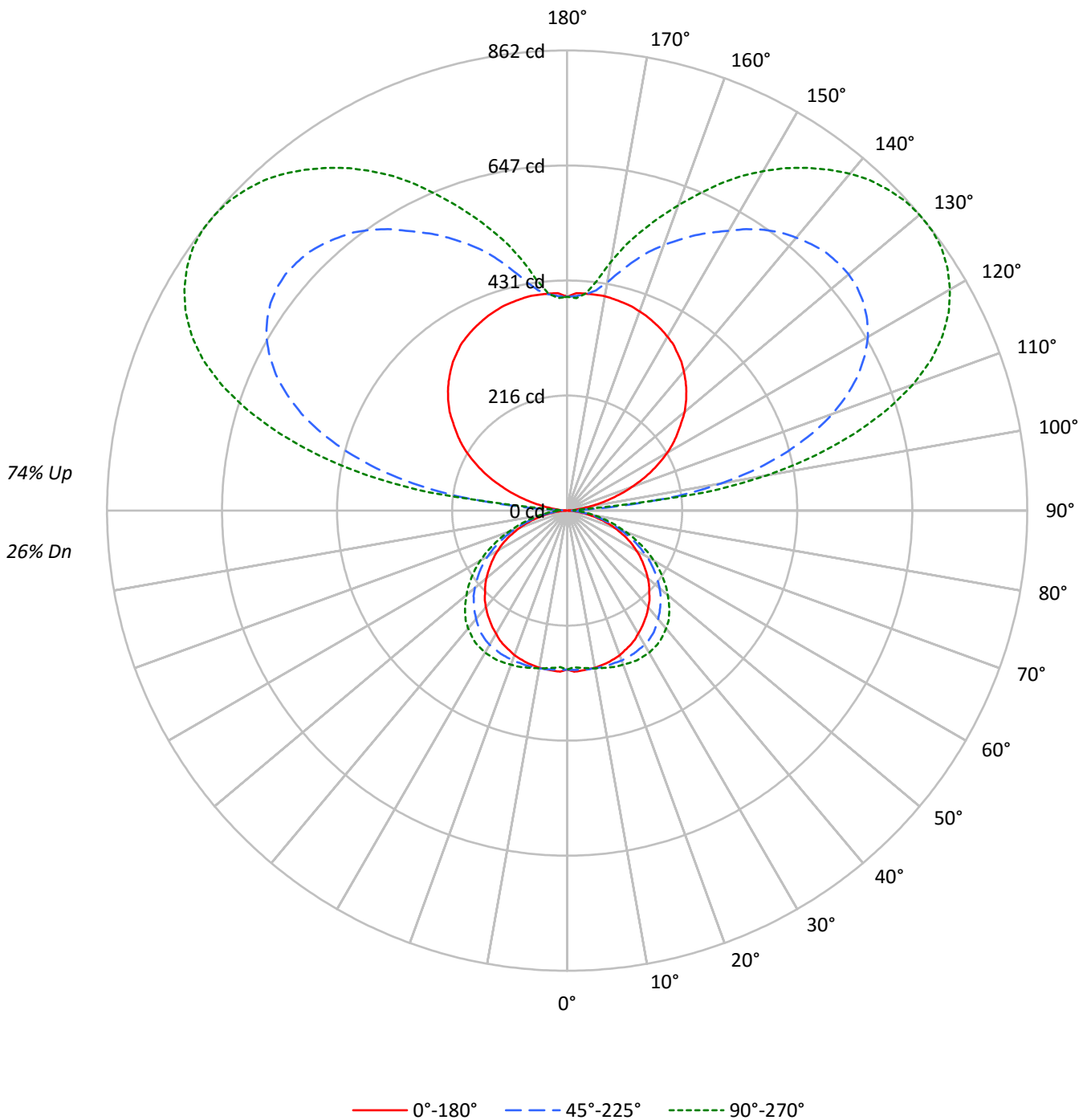
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395434

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395434

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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°	1637	1637	1637
5°	1655	1612	1585
10°	1656	1599	1581
15°	1658	1593	1589
20°	1661	1594	1603
25°	1658	1596	1624
30°	1648	1598	1636
35°	1645	1589	1637
40°	1639	1555	1616
45°	1622	1517	1576
50°	1607	1468	1506
55°	1575	1394	1419
60°	1536	1295	1310
65°	1473	1164	1161
70°	1368	991	983
75°	1180	788	789
80°	915	560	578
85°	539	347	388



TEST NUMBER: P395434

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.5	0.7
10°-20°	84.7	2.2
20°-30°	135.7	3.5
30°-40°	173.6	4.4
40°-50°	189.3	4.8
50°-60°	177.3	4.5
60°-70°	137.6	3.5
70°-80°	78.9	2.0
80°-90°	25.2	0.6
90°-100°	101.2	2.6
100°-110°	393.5	10.0
110°-120°	535.7	13.6
120°-130°	556.1	14.2
130°-140°	493.3	12.6
140°-150°	382.7	9.8
150°-160°	255.4	6.5
160°-170°	136.1	3.5
170°-180°	39.8	1.0
0°-30°	248.9	6.3
0°-40°	422.5	10.8
0°-60°	789.1	20.1
0°-90°	1030.8	26.3
90°-120°	1030.4	26.3
90°-150°	2462.5	62.7
90°-180°	2894.0	73.7
0°-180°	3924.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	301	298	299	298	296	29
15°	295	294	300	304	304	83
25°	279	281	296	306	309	128
35°	252	258	281	296	301	158
45°	218	227	247	263	270	168
55°	174	184	201	214	219	156
65°	124	129	140	150	153	122
75°	64	68	74	81	83	69
85°	13	15	22	28	30	15
90°	1	3	7	11	13	1
95°	13	72	98	20	19	17
105°	83	252	428	508	557	89
115°	174	390	602	708	776	172
125°	252	459	678	796	856	226
135°	316	484	684	803	850	243
145°	360	484	642	746	784	226
155°	388	457	569	645	675	179
165°	403	420	484	529	543	114
175°	408	406	407	409	409	39
180°	400	400	400	400	400	



TEST NUMBER: P395434

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8
2.5°	302.1	301.0	301.0	298.9	298.9	297.8	297.8	297.8	297.8	297.8	298.9
5°	301.0	301.0	299.9	298.9	298.9	297.8	297.8	297.8	297.8	297.8	298.9
7.5°	299.9	299.9	298.9	297.8	297.8	297.8	297.8	297.8	297.8	297.8	299.9
10°	298.9	298.9	297.8	296.8	296.8	296.8	296.8	297.8	297.8	297.8	299.9
12.5°	296.8	295.7	295.7	294.7	294.7	294.7	295.7	295.7	296.8	297.8	299.9
15°	294.7	294.7	293.6	292.5	293.6	293.6	293.6	294.7	295.7	296.8	299.9
17.5°	291.5	291.5	290.4	290.4	290.4	291.5	291.5	292.5	294.7	296.8	298.9
20°	288.3	287.3	287.3	287.3	288.3	288.3	289.4	291.5	292.5	295.7	298.9
22.5°	283.0	284.1	283.0	283.0	284.1	285.2	286.2	288.3	290.4	293.6	296.8
25°	278.8	278.8	278.8	278.8	280.9	280.9	283.0	285.2	288.3	291.5	295.7
27.5°	273.5	273.5	273.5	274.6	275.6	276.7	277.8	280.9	284.1	288.3	292.5
30°	266.1	266.1	266.1	266.1	269.3	270.4	272.5	276.7	279.9	285.2	290.4
32.5°	259.8	259.8	259.8	260.9	263.0	264.0	266.1	271.4	275.6	280.9	286.2
35°	252.4	252.4	253.5	253.5	256.6	257.7	259.8	264.0	268.3	274.6	280.9
37.5°	245.0	245.0	246.1	247.1	249.2	251.4	253.5	257.7	261.9	267.2	273.5
40°	236.6	236.6	237.6	238.7	241.9	244.0	246.1	250.3	254.5	259.8	265.1
42.5°	228.1	228.1	229.2	230.2	233.4	235.5	237.6	242.9	247.1	252.4	256.6
45°	217.6	218.6	219.7	221.8	225.0	227.1	229.2	233.4	238.7	242.9	247.1
47.5°	208.1	209.1	210.2	212.3	215.5	217.6	219.7	223.9	228.1	232.3	237.6
50°	197.5	198.6	199.6	201.7	204.9	207.0	209.1	213.3	217.6	220.7	226.0
52.5°	185.9	186.9	188.0	190.1	194.3	195.4	197.5	201.7	204.9	209.1	213.3
55°	174.3	175.3	176.4	178.5	181.7	183.8	184.8	189.0	192.2	196.4	200.7
57.5°	162.6	163.7	164.8	166.9	169.0	171.1	172.1	175.3	179.5	182.7	186.9
60°	150.0	151.0	152.1	153.1	156.3	157.4	158.4	161.6	164.8	169.0	172.1
62.5°	137.3	137.3	138.4	139.4	142.6	143.6	144.7	146.8	151.0	153.1	156.3
65°	123.6	123.6	124.6	125.7	127.8	128.8	129.9	132.0	135.2	137.3	140.5
67.5°	108.8	108.8	109.8	110.9	113.0	114.1	114.1	117.2	119.3	121.5	123.6
70°	95.1	95.1	96.1	96.1	97.2	98.2	99.3	101.4	102.4	105.6	106.7
72.5°	80.3	80.3	80.3	80.3	82.4	82.4	83.4	85.5	86.6	88.7	90.8
75°	64.4	64.4	65.5	65.5	66.5	67.6	68.6	69.7	71.8	72.9	73.9
77.5°	50.7	49.6	50.7	51.8	52.8	52.8	53.9	54.9	56.0	58.1	59.1
80°	35.9	35.9	35.9	37.0	38.0	38.0	39.1	40.1	41.2	43.3	44.4
82.5°	23.2	23.2	24.3	24.3	25.3	26.4	26.4	27.5	28.5	30.6	31.7
85°	12.7	12.7	12.7	13.7	14.8	14.8	15.8	16.9	19.0	20.1	22.2
87.5°	4.2	4.2	5.3	6.3	7.4	7.4	8.4	9.5	10.6	12.7	13.7
90°	1.1	1.1	1.1	2.1	2.1	3.2	3.2	4.2	5.3	6.3	7.4
92.5°	4.2	7.4	11.6	16.9	15.8	16.9	11.6	7.4	7.4	7.4	8.4
95°	12.7	19.0	30.6	48.6	63.4	71.8	79.2	86.6	101.4	102.4	98.2
97.5°	25.3	34.9	56.0	79.2	105.6	119.3	129.9	152.1	175.3	190.1	208.1
100°	42.2	56.0	83.4	115.1	145.7	163.7	180.6	212.3	240.8	266.1	293.6
102.5°	62.3	78.2	111.9	151.0	189.0	209.1	227.1	264.0	303.1	336.9	366.5
105°	83.4	101.4	141.5	185.9	229.2	252.4	274.6	314.7	355.9	392.9	427.7
107.5°	106.7	125.7	169.0	218.6	267.2	293.6	317.9	361.2	404.5	444.6	481.6
110°	128.8	150.0	195.4	249.2	304.2	330.6	354.9	402.4	447.8	490.0	529.1



TEST NUMBER: P395434

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	152.1	174.3	219.7	278.8	334.8	362.3	387.6	438.3	485.8	529.1	568.2
115°	174.3	195.4	242.9	304.2	361.2	389.7	417.2	468.9	518.6	561.9	602.0
117.5°	195.4	215.5	264.0	325.3	384.4	412.9	440.4	494.3	543.9	589.3	628.4
120°	216.5	234.5	287.3	343.2	403.4	432.0	460.5	514.3	565.0	610.4	650.6
122.5°	235.5	252.4	304.2	359.1	418.2	447.8	475.3	530.2	581.9	627.3	666.4
125°	252.4	268.3	320.0	371.8	430.9	459.4	487.9	541.8	593.5	637.9	678.0
127.5°	269.3	285.2	331.6	384.4	439.3	468.9	496.4	550.2	600.9	646.4	685.4
130°	287.3	298.9	343.2	396.0	447.8	475.3	503.8	555.5	605.2	649.5	688.6
132.5°	302.1	312.6	354.9	405.6	454.1	480.5	505.9	557.6	607.3	649.5	687.5
135°	315.8	324.2	363.3	414.0	459.4	483.7	508.0	556.6	605.2	647.4	684.4
137.5°	328.5	336.9	370.7	420.3	463.6	484.8	508.0	553.4	599.9	642.1	677.0
140°	340.1	346.4	377.0	423.5	465.8	485.8	505.9	548.1	591.4	632.6	667.5
142.5°	351.7	357.0	382.3	425.6	466.8	485.8	504.8	541.8	581.9	622.1	656.9
145°	360.1	365.4	386.5	426.7	465.8	483.7	500.6	535.5	571.4	608.3	642.1
147.5°	369.6	373.9	390.8	424.6	462.6	479.5	495.3	527.0	559.7	593.5	625.2
150°	376.0	380.2	392.9	422.5	457.3	473.1	489.0	518.6	548.1	577.7	605.2
152.5°	382.3	385.5	396.0	419.3	451.0	465.8	480.5	509.1	536.5	562.9	587.2
155°	387.6	390.8	398.2	417.2	443.6	457.3	471.0	498.5	523.8	547.1	569.3
157.5°	392.9	395.0	400.3	414.0	435.1	447.8	460.5	484.8	508.0	531.2	549.2
160°	397.1	398.2	402.4	412.9	427.7	437.2	448.9	471.0	492.2	512.2	529.1
162.5°	401.3	401.3	404.5	410.8	421.4	427.7	436.2	455.2	474.2	492.2	508.0
165°	403.4	403.4	405.6	409.8	416.1	420.3	425.6	438.3	453.1	468.9	483.7
167.5°	405.6	405.6	406.6	408.7	412.9	415.1	417.2	425.6	435.1	446.7	458.4
170°	407.7	406.6	406.6	408.7	409.8	410.8	411.9	416.1	420.3	427.7	434.1
172.5°	407.7	406.6	406.6	407.7	407.7	407.7	407.7	408.7	409.8	414.0	416.1
175°	407.7	406.6	406.6	406.6	406.6	405.6	405.6	405.6	405.6	405.6	406.6
177.5°	407.7	406.6	405.6	405.6	404.5	404.5	403.4	403.4	402.4	402.4	402.4
180°	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3



TEST NUMBER: P395434

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8	297.8
2.5°	298.9	298.9	297.8	297.8	296.8	296.8	295.7	294.7	293.6	293.6
5°	299.9	298.9	297.8	297.8	297.8	296.8	296.8	296.8	295.7	295.7
7.5°	299.9	299.9	299.9	298.9	298.9	298.9	298.9	298.9	297.8	297.8
10°	301.0	301.0	301.0	301.0	301.0	301.0	301.0	299.9	299.9	299.9
12.5°	301.0	301.0	301.0	302.1	302.1	302.1	302.1	302.1	302.1	302.1
15°	302.1	302.1	303.1	303.1	304.2	304.2	305.2	305.2	305.2	304.2
17.5°	301.0	302.1	303.1	304.2	305.2	305.2	306.3	306.3	306.3	306.3
20°	301.0	303.1	304.2	305.2	306.3	306.3	307.3	308.4	308.4	307.3
22.5°	299.9	302.1	303.1	305.2	306.3	306.3	308.4	308.4	308.4	308.4
25°	298.9	301.0	303.1	305.2	306.3	306.3	308.4	308.4	309.4	309.4
27.5°	296.8	298.9	302.1	304.2	305.2	306.3	307.3	308.4	308.4	308.4
30°	293.6	296.8	299.9	302.1	303.1	304.2	305.2	306.3	307.3	307.3
32.5°	289.4	292.5	295.7	298.9	299.9	301.0	303.1	304.2	304.2	304.2
35°	285.2	288.3	291.5	294.7	295.7	296.8	298.9	299.9	301.0	301.0
37.5°	278.8	282.0	285.2	288.3	289.4	291.5	293.6	294.7	294.7	294.7
40°	269.3	274.6	278.8	282.0	283.0	285.2	286.2	288.3	288.3	288.3
42.5°	260.9	265.1	268.3	272.5	273.5	276.7	278.8	279.9	280.9	280.9
45°	251.4	255.6	258.8	261.9	263.0	265.1	267.2	268.3	269.3	270.4
47.5°	241.9	245.0	248.2	251.4	252.4	254.5	256.6	257.7	258.8	258.8
50°	230.2	233.4	236.6	239.7	240.8	242.9	244.0	245.0	246.1	246.1
52.5°	217.6	220.7	223.9	227.1	228.1	229.2	231.3	232.3	233.4	233.4
55°	204.9	208.1	210.2	213.3	214.4	215.5	216.5	218.6	219.7	218.6
57.5°	190.1	193.3	195.4	198.6	199.6	200.7	201.7	202.8	203.8	203.8
60°	174.3	177.4	180.6	182.7	183.8	184.8	185.9	186.9	188.0	188.0
62.5°	158.4	161.6	163.7	166.9	167.9	167.9	169.0	170.0	171.1	171.1
65°	142.6	145.7	146.8	150.0	150.0	151.0	152.1	153.1	153.1	153.1
67.5°	125.7	128.8	129.9	132.0	132.0	133.1	134.1	135.2	135.2	135.2
70°	109.8	110.9	113.0	114.1	115.1	115.1	116.2	117.2	118.3	117.2
72.5°	92.9	94.0	96.1	97.2	97.2	98.2	98.2	99.3	100.3	100.3
75°	76.0	78.2	79.2	80.3	81.3	81.3	82.4	83.4	83.4	83.4
77.5°	60.2	62.3	63.4	64.4	65.5	65.5	66.5	66.5	67.6	66.5
80°	46.5	47.5	48.6	49.6	50.7	50.7	51.8	52.8	52.8	52.8
82.5°	33.8	34.9	37.0	38.0	38.0	38.0	40.1	40.1	41.2	40.1
85°	23.2	24.3	26.4	27.5	28.5	28.5	28.5	29.6	30.6	29.6
87.5°	14.8	16.9	18.0	19.0	19.0	19.0	20.1	21.1	21.1	21.1
90°	8.4	8.4	9.5	10.6	10.6	11.6	11.6	12.7	12.7	12.7
92.5°	8.4	9.5	9.5	9.5	10.6	10.6	10.6	11.6	11.6	11.6
95°	71.8	51.8	29.6	23.2	20.1	20.1	19.0	20.1	19.0	19.0
97.5°	217.6	235.5	244.0	255.6	261.9	260.9	256.6	260.9	257.7	260.9
100°	309.4	326.3	339.0	342.2	348.5	351.7	363.3	371.8	376.0	381.3
102.5°	384.4	404.5	419.3	427.7	434.1	438.3	452.0	464.7	471.0	475.3
105°	453.1	474.2	492.2	500.6	508.0	512.2	527.0	541.8	551.3	556.6
107.5°	508.0	532.3	551.3	564.0	571.4	578.8	596.7	611.5	623.1	628.4
110°	557.6	581.9	602.0	616.8	625.2	632.6	652.7	669.6	682.3	688.6





TEST NUMBER: P395434

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	598.8	625.2	645.3	661.1	669.6	680.1	699.2	718.2	730.8	738.2
115°	632.6	660.1	681.2	698.1	707.6	717.1	739.3	758.3	771.0	776.3
117.5°	661.1	688.6	710.8	727.7	738.2	748.8	771.0	787.9	801.6	805.8
120°	684.4	711.8	734.0	753.0	763.6	773.1	794.2	812.2	824.8	828.0
122.5°	700.2	728.7	752.0	773.1	782.6	792.1	812.2	830.1	841.7	844.9
125°	711.8	741.4	764.6	786.8	796.3	805.8	824.8	842.8	852.3	856.5
127.5°	719.2	748.8	774.1	795.3	805.8	814.3	833.3	849.1	858.6	861.8
130°	721.3	752.0	777.3	799.5	809.0	817.4	835.4	851.2	859.7	861.8
132.5°	721.3	750.9	777.3	798.4	807.9	816.4	833.3	848.1	856.5	858.6
135°	717.1	745.6	772.0	793.2	802.7	811.1	828.0	840.7	849.1	850.2
137.5°	709.7	737.2	762.5	783.6	793.2	801.6	816.4	830.1	837.5	839.6
140°	700.2	725.6	750.9	771.0	780.5	787.9	802.7	814.3	821.7	823.8
142.5°	687.5	712.9	736.1	756.2	763.6	772.0	784.7	796.3	802.7	804.8
145°	673.8	698.1	719.2	737.2	745.6	753.0	764.6	775.2	781.5	783.6
147.5°	655.9	680.1	700.2	717.1	724.5	731.9	742.5	752.0	758.3	760.4
150°	633.7	655.9	677.0	692.8	700.2	707.6	718.2	726.6	733.0	734.0
152.5°	611.5	632.6	650.6	666.4	673.8	681.2	690.7	699.2	706.5	706.5
155°	590.4	608.3	625.2	639.0	645.3	651.6	661.1	668.5	674.9	674.9
157.5°	568.2	585.1	598.8	611.5	616.8	622.1	630.5	636.8	642.1	641.1
160°	547.1	559.7	572.4	583.0	588.3	592.5	598.8	604.1	609.4	608.3
162.5°	523.8	535.5	546.0	553.4	557.6	560.8	567.1	572.4	575.6	575.6
165°	497.4	508.0	517.5	524.9	529.1	531.2	536.5	539.7	542.8	542.8
167.5°	470.0	478.4	486.9	493.2	497.4	499.5	504.8	506.9	511.2	510.1
170°	442.5	448.9	455.2	460.5	462.6	464.7	468.9	471.0	473.1	473.1
172.5°	420.3	422.5	425.6	429.8	429.8	430.9	433.0	434.1	435.1	435.1
175°	407.7	408.7	408.7	408.7	408.7	408.7	409.8	408.7	409.8	408.7
177.5°	402.4	402.4	401.3	401.3	400.3	401.3	400.3	399.2	399.2	398.2
180°	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3	400.3

(END OF REPORT)