

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: P395435

Luminaire Tested: **I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395435
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 (4000K)
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4238.7 lumens
Efficiency: N/A
Efficacy: 116.4 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

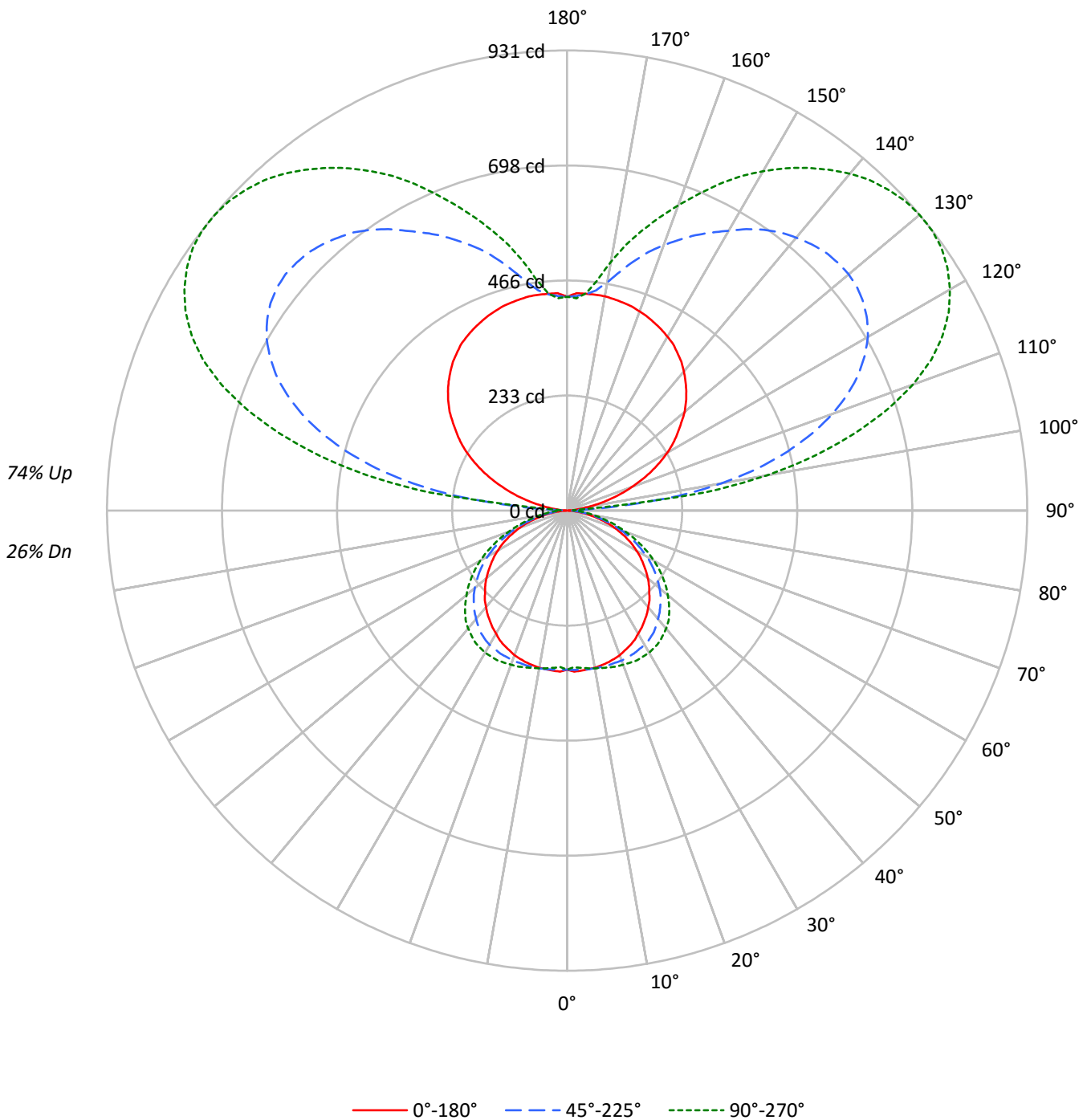
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

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°	1768	1768	1768
5°	1787	1741	1712
10°	1788	1727	1707
15°	1790	1721	1716
20°	1794	1722	1731
25°	1791	1723	1754
30°	1780	1726	1767
35°	1776	1716	1769
40°	1770	1680	1746
45°	1752	1639	1702
50°	1736	1585	1627
55°	1700	1505	1533
60°	1659	1399	1415
65°	1591	1257	1254
70°	1478	1070	1062
75°	1276	851	853
80°	989	605	624
85°	581	375	418



TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	0.7
10°-20°	91.4	2.2
20°-30°	146.6	3.5
30°-40°	187.5	4.4
40°-50°	204.4	4.8
50°-60°	191.5	4.5
60°-70°	148.6	3.5
70°-80°	85.2	2.0
80°-90°	27.2	0.6
90°-100°	109.3	2.6
100°-110°	425.0	10.0
110°-120°	578.6	13.6
120°-130°	600.6	14.2
130°-140°	532.7	12.6
140°-150°	413.3	9.8
150°-160°	275.9	6.5
160°-170°	147.0	3.5
170°-180°	43.0	1.0
0°-30°	268.8	6.3
0°-40°	456.3	10.8
0°-60°	852.3	20.1
0°-90°	1113.3	26.3
90°-120°	1112.9	26.3
90°-150°	2659.5	62.7
90°-180°	3125.0	73.7
0°-180°	4238.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	325	322	323	322	319	31
15°	318	317	324	328	328	90
25°	301	303	319	331	334	139
35°	273	278	303	319	325	171
45°	235	245	267	284	292	182
55°	188	198	217	232	236	168
65°	134	139	152	162	165	132
75°	70	73	80	88	90	74
85°	14	16	24	31	32	16
90°	1	3	8	11	14	2
95°	14	78	106	22	20	18
105°	90	273	462	549	601	96
115°	188	421	650	764	838	185
125°	273	496	732	860	925	244
135°	341	522	739	867	918	263
145°	389	522	694	805	846	244
155°	419	494	615	697	729	193
165°	436	454	522	571	586	123
175°	440	438	439	441	441	42
180°	432	432	432	432	432	



TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7
2.5°	326.2	325.1	325.1	322.8	322.8	321.7	321.7	321.7	321.7	321.7	322.8
5°	325.1	325.1	323.9	322.8	322.8	321.7	321.7	321.7	321.7	321.7	322.8
7.5°	323.9	323.9	322.8	321.7	321.7	321.7	321.7	321.7	321.7	321.7	323.9
10°	322.8	322.8	321.7	320.5	320.5	320.5	320.5	321.7	321.7	321.7	323.9
12.5°	320.5	319.4	319.4	318.2	318.2	318.2	319.4	319.4	320.5	321.7	323.9
15°	318.2	318.2	317.1	316.0	317.1	317.1	317.1	318.2	319.4	320.5	323.9
17.5°	314.8	314.8	313.7	313.7	313.7	314.8	314.8	316.0	318.2	320.5	322.8
20°	311.4	310.2	310.2	310.2	311.4	311.4	312.5	314.8	316.0	319.4	322.8
22.5°	305.7	306.8	305.7	305.7	306.8	308.0	309.1	311.4	313.7	317.1	320.5
25°	301.1	301.1	301.1	301.1	303.4	303.4	305.7	308.0	311.4	314.8	319.4
27.5°	295.4	295.4	295.4	296.6	297.7	298.8	300.0	303.4	306.8	311.4	316.0
30°	287.4	287.4	287.4	287.4	290.9	292.0	294.3	298.8	302.3	308.0	313.7
32.5°	280.6	280.6	280.6	281.7	284.0	285.2	287.4	293.1	297.7	303.4	309.1
35°	272.6	272.6	273.7	273.7	277.2	278.3	280.6	285.2	289.7	296.6	303.4
37.5°	264.6	264.6	265.8	266.9	269.2	271.5	273.7	278.3	282.9	288.6	295.4
40°	255.5	255.5	256.6	257.8	261.2	263.5	265.8	270.3	274.9	280.6	286.3
42.5°	246.4	246.4	247.5	248.7	252.1	254.4	256.6	262.3	266.9	272.6	277.2
45°	235.0	236.1	237.2	239.5	243.0	245.2	247.5	252.1	257.8	262.3	266.9
47.5°	224.7	225.8	227.0	229.3	232.7	235.0	237.2	241.8	246.4	250.9	256.6
50°	213.3	214.4	215.6	217.9	221.3	223.6	225.8	230.4	235.0	238.4	244.1
52.5°	200.7	201.9	203.0	205.3	209.9	211.0	213.3	217.9	221.3	225.8	230.4
55°	188.2	189.3	190.5	192.8	196.2	198.5	199.6	204.2	207.6	212.2	216.7
57.5°	175.7	176.8	177.9	180.2	182.5	184.8	185.9	189.3	193.9	197.3	201.9
60°	162.0	163.1	164.2	165.4	168.8	170.0	171.1	174.5	177.9	182.5	185.9
62.5°	148.3	148.3	149.4	150.6	154.0	155.1	156.3	158.5	163.1	165.4	168.8
65°	133.5	133.5	134.6	135.7	138.0	139.2	140.3	142.6	146.0	148.3	151.7
67.5°	117.5	117.5	118.6	119.8	122.0	123.2	123.2	126.6	128.9	131.2	133.5
70°	102.7	102.7	103.8	103.8	104.9	106.1	107.2	109.5	110.6	114.1	115.2
72.5°	86.7	86.7	86.7	86.7	89.0	89.0	90.1	92.4	93.5	95.8	98.1
75°	69.6	69.6	70.7	70.7	71.9	73.0	74.1	75.3	77.6	78.7	79.8
77.5°	54.7	53.6	54.7	55.9	57.0	57.0	58.2	59.3	60.5	62.7	63.9
80°	38.8	38.8	38.8	39.9	41.1	41.1	42.2	43.3	44.5	46.8	47.9
82.5°	25.1	25.1	26.2	26.2	27.4	28.5	28.5	29.7	30.8	33.1	34.2
85°	13.7	13.7	13.7	14.8	16.0	16.0	17.1	18.2	20.5	21.7	24.0
87.5°	4.6	4.6	5.7	6.8	8.0	8.0	9.1	10.3	11.4	13.7	14.8
90°	1.1	1.1	1.1	2.3	2.3	3.4	3.4	4.6	5.7	6.8	8.0
92.5°	4.6	8.0	12.5	18.2	17.1	18.2	12.5	8.0	8.0	8.0	9.1
95°	13.7	20.5	33.1	52.5	68.4	77.6	85.5	93.5	109.5	110.6	106.1
97.5°	27.4	37.6	60.5	85.5	114.1	128.9	140.3	164.2	189.3	205.3	224.7
100°	45.6	60.5	90.1	124.3	157.4	176.8	195.0	229.3	260.1	287.4	317.1
102.5°	67.3	84.4	120.9	163.1	204.2	225.8	245.2	285.2	327.4	363.9	395.8
105°	90.1	109.5	152.8	200.7	247.5	272.6	296.6	339.9	384.4	424.3	462.0
107.5°	115.2	135.7	182.5	236.1	288.6	317.1	343.3	390.1	436.9	480.2	520.1
110°	139.2	162.0	211.0	269.2	328.5	357.0	383.2	434.6	483.6	529.2	571.4



TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	164.2	188.2	237.2	301.1	361.6	391.2	418.6	473.4	524.7	571.4	613.7
115°	188.2	211.0	262.3	328.5	390.1	420.9	450.5	506.4	560.0	606.8	650.2
117.5°	211.0	232.7	285.2	351.3	415.2	446.0	475.6	533.8	587.4	636.5	678.7
120°	233.8	253.2	310.2	370.7	435.7	466.5	497.3	555.5	610.2	659.3	702.6
122.5°	254.4	272.6	328.5	387.8	451.7	483.6	513.3	572.6	628.5	677.5	719.7
125°	272.6	289.7	345.6	401.5	465.4	496.2	527.0	585.1	641.0	688.9	732.3
127.5°	290.9	308.0	358.2	415.2	474.5	506.4	536.1	594.3	649.0	698.1	740.3
130°	310.2	322.8	370.7	427.7	483.6	513.3	544.1	600.0	653.6	701.5	743.7
132.5°	326.2	337.6	383.2	438.0	490.5	519.0	546.4	602.2	655.9	701.5	742.5
135°	341.0	350.2	392.4	447.1	496.2	522.4	548.6	601.1	653.6	699.2	739.1
137.5°	354.7	363.9	400.4	454.0	500.7	523.5	548.6	597.7	647.9	693.5	731.1
140°	367.3	374.1	407.2	457.4	503.0	524.7	546.4	592.0	638.7	683.2	720.9
142.5°	379.8	385.5	412.9	459.7	504.2	524.7	545.2	585.1	628.5	671.8	709.5
145°	389.0	394.7	417.5	460.8	503.0	522.4	540.7	578.3	617.1	657.0	693.5
147.5°	399.2	403.8	422.0	458.5	499.6	517.8	534.9	569.2	604.5	641.0	675.2
150°	406.1	410.6	424.3	456.2	493.9	511.0	528.1	560.0	592.0	623.9	653.6
152.5°	412.9	416.3	427.7	452.8	487.0	503.0	519.0	549.8	579.4	607.9	634.2
155°	418.6	422.0	430.0	450.5	479.1	493.9	508.7	538.4	565.7	590.8	614.8
157.5°	424.3	426.6	432.3	447.1	469.9	483.6	497.3	523.5	548.6	573.7	593.1
160°	428.9	430.0	434.6	446.0	462.0	472.2	484.8	508.7	531.5	553.2	571.4
162.5°	433.4	433.4	436.9	443.7	455.1	462.0	471.1	491.6	512.1	531.5	548.6
165°	435.7	435.7	438.0	442.6	449.4	454.0	459.7	473.4	489.3	506.4	522.4
167.5°	438.0	438.0	439.1	441.4	446.0	448.3	450.5	459.7	469.9	482.5	495.0
170°	440.3	439.1	439.1	441.4	442.6	443.7	444.8	449.4	454.0	462.0	468.8
172.5°	440.3	439.1	439.1	440.3	440.3	440.3	440.3	441.4	442.6	447.1	449.4
175°	440.3	439.1	439.1	439.1	439.1	438.0	438.0	438.0	438.0	438.0	439.1
177.5°	440.3	439.1	438.0	438.0	436.9	436.9	435.7	435.7	434.6	434.6	434.6
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3



TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7
2.5°	322.8	322.8	321.7	321.7	320.5	320.5	319.4	318.2	317.1	317.1
5°	323.9	322.8	321.7	321.7	321.7	320.5	320.5	320.5	319.4	319.4
7.5°	323.9	323.9	323.9	322.8	322.8	322.8	322.8	322.8	321.7	321.7
10°	325.1	325.1	325.1	325.1	325.1	325.1	325.1	323.9	323.9	323.9
12.5°	325.1	325.1	325.1	326.2	326.2	326.2	326.2	326.2	326.2	326.2
15°	326.2	326.2	327.4	327.4	328.5	328.5	329.6	329.6	329.6	328.5
17.5°	325.1	326.2	327.4	328.5	329.6	329.6	330.8	330.8	330.8	330.8
20°	325.1	327.4	328.5	329.6	330.8	330.8	331.9	333.1	333.1	331.9
22.5°	323.9	326.2	327.4	329.6	330.8	330.8	333.1	333.1	333.1	333.1
25°	322.8	325.1	327.4	329.6	330.8	330.8	333.1	333.1	334.2	334.2
27.5°	320.5	322.8	326.2	328.5	329.6	330.8	331.9	333.1	333.1	333.1
30°	317.1	320.5	323.9	326.2	327.4	328.5	329.6	330.8	331.9	331.9
32.5°	312.5	316.0	319.4	322.8	323.9	325.1	327.4	328.5	328.5	328.5
35°	308.0	311.4	314.8	318.2	319.4	320.5	322.8	323.9	325.1	325.1
37.5°	301.1	304.5	308.0	311.4	312.5	314.8	317.1	318.2	318.2	318.2
40°	290.9	296.6	301.1	304.5	305.7	308.0	309.1	311.4	311.4	311.4
42.5°	281.7	286.3	289.7	294.3	295.4	298.8	301.1	302.3	303.4	303.4
45°	271.5	276.0	279.5	282.9	284.0	286.3	288.6	289.7	290.9	292.0
47.5°	261.2	264.6	268.0	271.5	272.6	274.9	277.2	278.3	279.5	279.5
50°	248.7	252.1	255.5	258.9	260.1	262.3	263.5	264.6	265.8	265.8
52.5°	235.0	238.4	241.8	245.2	246.4	247.5	249.8	250.9	252.1	252.1
55°	221.3	224.7	227.0	230.4	231.5	232.7	233.8	236.1	237.2	236.1
57.5°	205.3	208.7	211.0	214.4	215.6	216.7	217.9	219.0	220.1	220.1
60°	188.2	191.6	195.0	197.3	198.5	199.6	200.7	201.9	203.0	203.0
62.5°	171.1	174.5	176.8	180.2	181.4	181.4	182.5	183.6	184.8	184.8
65°	154.0	157.4	158.5	162.0	162.0	163.1	164.2	165.4	165.4	165.4
67.5°	135.7	139.2	140.3	142.6	142.6	143.7	144.9	146.0	146.0	146.0
70°	118.6	119.8	122.0	123.2	124.3	124.3	125.5	126.6	127.7	126.6
72.5°	100.4	101.5	103.8	104.9	104.9	106.1	106.1	107.2	108.4	108.4
75°	82.1	84.4	85.5	86.7	87.8	87.8	89.0	90.1	90.1	90.1
77.5°	65.0	67.3	68.4	69.6	70.7	70.7	71.9	71.9	73.0	71.9
80°	50.2	51.3	52.5	53.6	54.7	54.7	55.9	57.0	57.0	57.0
82.5°	36.5	37.6	39.9	41.1	41.1	41.1	43.3	43.3	44.5	43.3
85°	25.1	26.2	28.5	29.7	30.8	30.8	30.8	31.9	33.1	31.9
87.5°	16.0	18.2	19.4	20.5	20.5	20.5	21.7	22.8	22.8	22.8
90°	9.1	9.1	10.3	11.4	11.4	12.5	12.5	13.7	13.7	13.7
92.5°	9.1	10.3	10.3	10.3	11.4	11.4	11.4	12.5	12.5	12.5
95°	77.6	55.9	31.9	25.1	21.7	21.7	20.5	21.7	20.5	20.5
97.5°	235.0	254.4	263.5	276.0	282.9	281.7	277.2	281.7	278.3	281.7
100°	334.2	352.5	366.1	369.6	376.4	379.8	392.4	401.5	406.1	411.8
102.5°	415.2	436.9	452.8	462.0	468.8	473.4	488.2	501.9	508.7	513.3
105°	489.3	512.1	531.5	540.7	548.6	553.2	569.2	585.1	595.4	601.1
107.5°	548.6	574.9	595.4	609.1	617.1	625.1	644.4	660.4	673.0	678.7
110°	602.2	628.5	650.2	666.1	675.2	683.2	704.9	723.2	736.8	743.7



TEST NUMBER: P395435

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	646.7	675.2	696.9	714.0	723.2	734.6	755.1	775.6	789.3	797.3
115°	683.2	712.9	735.7	753.9	764.2	774.5	798.4	819.0	832.7	838.4
117.5°	714.0	743.7	767.6	785.9	797.3	808.7	832.7	850.9	865.7	870.3
120°	739.1	768.8	792.7	813.3	824.7	834.9	857.7	877.1	890.8	894.2
122.5°	756.2	787.0	812.1	834.9	845.2	855.5	877.1	896.5	909.1	912.5
125°	768.8	800.7	825.8	849.8	860.0	870.3	890.8	910.2	920.5	925.0
127.5°	776.8	808.7	836.1	858.9	870.3	879.4	899.9	917.1	927.3	930.7
130°	779.0	812.1	839.5	863.4	873.7	882.8	902.2	919.3	928.5	930.7
132.5°	779.0	811.0	839.5	862.3	872.6	881.7	899.9	915.9	925.0	927.3
135°	774.5	805.3	833.8	856.6	866.9	876.0	894.2	907.9	917.1	918.2
137.5°	766.5	796.2	823.5	846.3	856.6	865.7	881.7	896.5	904.5	906.8
140°	756.2	783.6	811.0	832.7	842.9	850.9	866.9	879.4	887.4	889.7
142.5°	742.5	769.9	795.0	816.7	824.7	833.8	847.5	860.0	866.9	869.2
145°	727.7	753.9	776.8	796.2	805.3	813.3	825.8	837.2	844.1	846.3
147.5°	708.3	734.6	756.2	774.5	782.5	790.4	801.9	812.1	819.0	821.2
150°	684.4	708.3	731.1	748.2	756.2	764.2	775.6	784.7	791.6	792.7
152.5°	660.4	683.2	702.6	719.7	727.7	735.7	746.0	755.1	763.1	763.1
155°	637.6	657.0	675.2	690.1	696.9	703.8	714.0	722.0	728.9	728.9
157.5°	613.7	631.9	646.7	660.4	666.1	671.8	680.9	687.8	693.5	692.4
160°	590.8	604.5	618.2	629.6	635.3	639.9	646.7	652.4	658.1	657.0
162.5°	565.7	578.3	589.7	597.7	602.2	605.7	612.5	618.2	621.6	621.6
165°	537.2	548.6	558.9	566.9	571.4	573.7	579.4	582.9	586.3	586.3
167.5°	507.6	516.7	525.8	532.7	537.2	539.5	545.2	547.5	552.1	550.9
170°	477.9	484.8	491.6	497.3	499.6	501.9	506.4	508.7	511.0	511.0
172.5°	454.0	456.2	459.7	464.2	464.2	465.4	467.7	468.8	469.9	469.9
175°	440.3	441.4	441.4	441.4	441.4	441.4	442.6	441.4	442.6	441.4
177.5°	434.6	434.6	433.4	433.4	432.3	433.4	432.3	431.2	431.2	430.0
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

(END OF REPORT)