

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: P395436

Luminaire Tested: **I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395436
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 (4500K)
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4312.6 lumens
Efficiency: N/A
Efficacy: 116.6 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

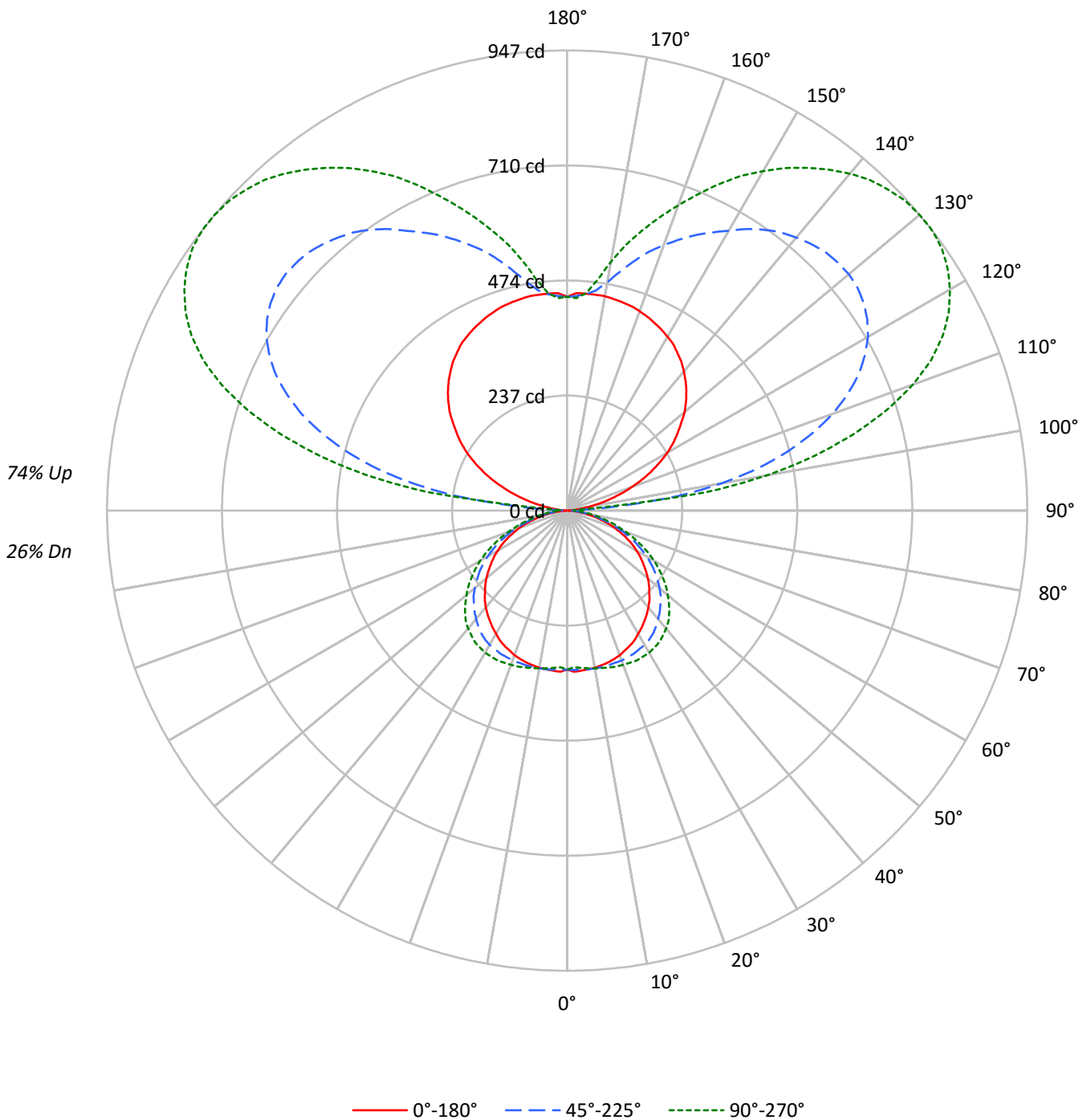
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395436

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

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°	1799	1799	1799
5°	1818	1771	1742
10°	1819	1757	1737
15°	1822	1751	1746
20°	1825	1751	1762
25°	1822	1753	1785
30°	1811	1756	1797
35°	1807	1746	1799
40°	1801	1709	1776
45°	1783	1668	1732
50°	1766	1612	1655
55°	1730	1532	1559
60°	1687	1424	1440
65°	1618	1278	1276
70°	1502	1089	1080
75°	1298	866	868
80°	1007	615	635
85°	590	381	426



TEST NUMBER: P395436

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	0.7
10°-20°	93.0	2.2
20°-30°	149.1	3.5
30°-40°	190.8	4.4
40°-50°	208.0	4.8
50°-60°	194.9	4.5
60°-70°	151.2	3.5
70°-80°	86.7	2.0
80°-90°	27.7	0.6
90°-100°	111.2	2.6
100°-110°	432.4	10.0
110°-120°	588.7	13.6
120°-130°	611.0	14.2
130°-140°	542.0	12.6
140°-150°	420.5	9.8
150°-160°	280.7	6.5
160°-170°	149.6	3.5
170°-180°	43.8	1.0
0°-30°	273.5	6.3
0°-40°	464.2	10.8
0°-60°	867.1	20.1
0°-90°	1132.7	26.3
90°-120°	1132.3	26.3
90°-150°	2705.9	62.7
90°-180°	3180.0	73.7
0°-180°	4312.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	327	327	327	327	327	
5°	331	327	328	327	325	31
15°	324	323	330	334	334	91
25°	306	309	325	336	340	141
35°	277	283	309	325	331	174
45°	239	250	272	289	297	185
55°	192	202	220	236	240	171
65°	136	142	154	165	168	134
75°	71	74	81	89	92	76
85°	14	16	24	31	32	17
90°	1	4	8	12	14	2
95°	14	79	108	22	21	18
105°	92	277	470	558	612	98
115°	192	428	662	778	853	189
125°	277	505	745	875	941	248
135°	347	532	752	882	934	267
145°	396	532	706	819	861	248
155°	426	502	626	709	742	197
165°	443	462	532	581	596	125
175°	448	446	447	449	449	43
180°	440	440	440	440	440	



TEST NUMBER: P395436

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3
2.5°	331.9	330.7	330.7	328.4	328.4	327.3	327.3	327.3	327.3	327.3	328.4
5°	330.7	330.7	329.6	328.4	328.4	327.3	327.3	327.3	327.3	327.3	328.4
7.5°	329.6	329.6	328.4	327.3	327.3	327.3	327.3	327.3	327.3	327.3	329.6
10°	328.4	328.4	327.3	326.1	326.1	326.1	326.1	327.3	327.3	327.3	329.6
12.5°	326.1	324.9	324.9	323.8	323.8	323.8	324.9	324.9	326.1	327.3	329.6
15°	323.8	323.8	322.6	321.5	322.6	322.6	322.6	323.8	324.9	326.1	329.6
17.5°	320.3	320.3	319.1	319.1	319.1	320.3	320.3	321.5	323.8	326.1	328.4
20°	316.8	315.7	315.7	315.7	316.8	316.8	318.0	320.3	321.5	324.9	328.4
22.5°	311.0	312.2	311.0	311.0	312.2	313.3	314.5	316.8	319.1	322.6	326.1
25°	306.4	306.4	306.4	306.4	308.7	308.7	311.0	313.3	316.8	320.3	324.9
27.5°	300.6	300.6	300.6	301.7	302.9	304.1	305.2	308.7	312.2	316.8	321.5
30°	292.4	292.4	292.4	292.4	295.9	297.1	299.4	304.1	307.5	313.3	319.1
32.5°	285.5	285.5	285.5	286.6	289.0	290.1	292.4	298.2	302.9	308.7	314.5
35°	277.4	277.4	278.5	278.5	282.0	283.2	285.5	290.1	294.8	301.7	308.7
37.5°	269.2	269.2	270.4	271.6	273.9	276.2	278.5	283.2	287.8	293.6	300.6
40°	260.0	260.0	261.1	262.3	265.8	268.1	270.4	275.0	279.7	285.5	291.3
42.5°	250.7	250.7	251.8	253.0	256.5	258.8	261.1	266.9	271.6	277.4	282.0
45°	239.1	240.2	241.4	243.7	247.2	249.5	251.8	256.5	262.3	266.9	271.6
47.5°	228.6	229.8	230.9	233.3	236.7	239.1	241.4	246.0	250.7	255.3	261.1
50°	217.0	218.2	219.3	221.7	225.1	227.5	229.8	234.4	239.1	242.5	248.3
52.5°	204.2	205.4	206.6	208.9	213.5	214.7	217.0	221.7	225.1	229.8	234.4
55°	191.5	192.6	193.8	196.1	199.6	201.9	203.1	207.7	211.2	215.9	220.5
57.5°	178.7	179.9	181.0	183.4	185.7	188.0	189.2	192.6	197.3	200.8	205.4
60°	164.8	166.0	167.1	168.3	171.8	172.9	174.1	177.6	181.0	185.7	189.2
62.5°	150.9	150.9	152.0	153.2	156.7	157.8	159.0	161.3	166.0	168.3	171.8
65°	135.8	135.8	136.9	138.1	140.4	141.6	142.7	145.1	148.5	150.9	154.3
67.5°	119.5	119.5	120.7	121.9	124.2	125.3	125.3	128.8	131.1	133.5	135.8
70°	104.4	104.4	105.6	105.6	106.8	107.9	109.1	111.4	112.6	116.0	117.2
72.5°	88.2	88.2	88.2	88.2	90.5	90.5	91.7	94.0	95.2	97.5	99.8
75°	70.8	70.8	72.0	72.0	73.1	74.3	75.4	76.6	78.9	80.1	81.2
77.5°	55.7	54.5	55.7	56.9	58.0	58.0	59.2	60.3	61.5	63.8	65.0
80°	39.5	39.5	39.5	40.6	41.8	41.8	42.9	44.1	45.3	47.6	48.7
82.5°	25.5	25.5	26.7	26.7	27.9	29.0	29.0	30.2	31.3	33.7	34.8
85°	13.9	13.9	13.9	15.1	16.2	16.2	17.4	18.6	20.9	22.0	24.4
87.5°	4.6	4.6	5.8	7.0	8.1	8.1	9.3	10.4	11.6	13.9	15.1
90°	1.2	1.2	1.2	2.3	2.3	3.5	3.5	4.6	5.8	7.0	8.1
92.5°	4.6	8.1	12.8	18.6	17.4	18.6	12.8	8.1	8.1	8.1	9.3
95°	13.9	20.9	33.7	53.4	69.6	78.9	87.0	95.2	111.4	112.6	107.9
97.5°	27.9	38.3	61.5	87.0	116.0	131.1	142.7	167.1	192.6	208.9	228.6
100°	46.4	61.5	91.7	126.5	160.1	179.9	198.4	233.3	264.6	292.4	322.6
102.5°	68.5	85.9	123.0	166.0	207.7	229.8	249.5	290.1	333.1	370.2	402.7
105°	91.7	111.4	155.5	204.2	251.8	277.4	301.7	345.8	391.1	431.7	470.0
107.5°	117.2	138.1	185.7	240.2	293.6	322.6	349.3	396.9	444.5	488.6	529.2
110°	141.6	164.8	214.7	273.9	334.2	363.2	389.9	442.1	492.1	538.5	581.4



TEST NUMBER: P395436

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	167.1	191.5	241.4	306.4	367.9	398.1	425.9	481.6	533.8	581.4	624.3
115°	191.5	214.7	266.9	334.2	396.9	428.2	458.4	515.3	569.8	617.4	661.5
117.5°	214.7	236.7	290.1	357.4	422.4	453.8	483.9	543.1	597.7	647.6	690.5
120°	237.9	257.6	315.7	377.2	443.3	474.6	506.0	565.2	620.9	670.8	714.9
122.5°	258.8	277.4	334.2	394.6	459.6	492.1	522.2	582.6	639.4	689.3	732.3
125°	277.4	294.8	351.6	408.5	473.5	504.8	536.2	595.3	652.2	700.9	745.0
127.5°	295.9	313.3	364.4	422.4	482.8	515.3	545.4	604.6	660.3	710.2	753.2
130°	315.7	328.4	377.2	435.2	492.1	522.2	553.6	610.4	665.0	713.7	756.6
132.5°	331.9	343.5	389.9	445.6	499.0	528.0	555.9	612.7	667.3	713.7	755.5
135°	347.0	356.3	399.2	454.9	504.8	531.5	558.2	611.6	665.0	711.4	752.0
137.5°	360.9	370.2	407.3	461.9	509.5	532.7	558.2	608.1	659.2	705.6	743.9
140°	373.7	380.6	414.3	465.4	511.8	533.8	555.9	602.3	649.9	695.1	733.4
142.5°	386.4	392.2	420.1	467.7	512.9	533.8	554.7	595.3	639.4	683.5	721.8
145°	395.7	401.5	424.7	468.8	511.8	531.5	550.1	588.4	627.8	668.4	705.6
147.5°	406.2	410.8	429.4	466.5	508.3	526.9	544.3	579.1	615.1	652.2	687.0
150°	413.1	417.8	431.7	464.2	502.5	519.9	537.3	569.8	602.3	634.8	665.0
152.5°	420.1	423.6	435.2	460.7	495.5	511.8	528.0	559.4	589.5	618.5	645.2
155°	425.9	429.4	437.5	458.4	487.4	502.5	517.6	547.8	575.6	601.1	625.5
157.5°	431.7	434.0	439.8	454.9	478.1	492.1	506.0	532.7	558.2	583.7	603.5
160°	436.3	437.5	442.1	453.8	470.0	480.4	493.2	517.6	540.8	562.8	581.4
162.5°	441.0	441.0	444.5	451.4	463.0	470.0	479.3	500.2	521.1	540.8	558.2
165°	443.3	443.3	445.6	450.3	457.2	461.9	467.7	481.6	497.9	515.3	531.5
167.5°	445.6	445.6	446.8	449.1	453.8	456.1	458.4	467.7	478.1	490.9	503.7
170°	448.0	446.8	446.8	449.1	450.3	451.4	452.6	457.2	461.9	470.0	477.0
172.5°	448.0	446.8	446.8	448.0	448.0	448.0	448.0	449.1	450.3	454.9	457.2
175°	448.0	446.8	446.8	446.8	446.8	445.6	445.6	445.6	445.6	445.6	446.8
177.5°	448.0	446.8	445.6	445.6	444.5	444.5	443.3	443.3	442.1	442.1	442.1
180°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8



TEST NUMBER: P395436

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3
2.5°	328.4	328.4	327.3	327.3	326.1	326.1	324.9	323.8	322.6	322.6
5°	329.6	328.4	327.3	327.3	327.3	326.1	326.1	326.1	324.9	324.9
7.5°	329.6	329.6	329.6	328.4	328.4	328.4	328.4	328.4	327.3	327.3
10°	330.7	330.7	330.7	330.7	330.7	330.7	330.7	329.6	329.6	329.6
12.5°	330.7	330.7	330.7	331.9	331.9	331.9	331.9	331.9	331.9	331.9
15°	331.9	331.9	333.1	333.1	334.2	334.2	335.4	335.4	335.4	334.2
17.5°	330.7	331.9	333.1	334.2	335.4	335.4	336.5	336.5	336.5	336.5
20°	330.7	333.1	334.2	335.4	336.5	336.5	337.7	338.9	338.9	337.7
22.5°	329.6	331.9	333.1	335.4	336.5	336.5	338.9	338.9	338.9	338.9
25°	328.4	330.7	333.1	335.4	336.5	336.5	338.9	338.9	340.0	340.0
27.5°	326.1	328.4	331.9	334.2	335.4	336.5	337.7	338.9	338.9	338.9
30°	322.6	326.1	329.6	331.9	333.1	334.2	335.4	336.5	337.7	337.7
32.5°	318.0	321.5	324.9	328.4	329.6	330.7	333.1	334.2	334.2	334.2
35°	313.3	316.8	320.3	323.8	324.9	326.1	328.4	329.6	330.7	330.7
37.5°	306.4	309.9	313.3	316.8	318.0	320.3	322.6	323.8	323.8	323.8
40°	295.9	301.7	306.4	309.9	311.0	313.3	314.5	316.8	316.8	316.8
42.5°	286.6	291.3	294.8	299.4	300.6	304.1	306.4	307.5	308.7	308.7
45°	276.2	280.8	284.3	287.8	289.0	291.3	293.6	294.8	295.9	297.1
47.5°	265.8	269.2	272.7	276.2	277.4	279.7	282.0	283.2	284.3	284.3
50°	253.0	256.5	260.0	263.4	264.6	266.9	268.1	269.2	270.4	270.4
52.5°	239.1	242.5	246.0	249.5	250.7	251.8	254.1	255.3	256.5	256.5
55°	225.1	228.6	230.9	234.4	235.6	236.7	237.9	240.2	241.4	240.2
57.5°	208.9	212.4	214.7	218.2	219.3	220.5	221.7	222.8	224.0	224.0
60°	191.5	195.0	198.4	200.8	201.9	203.1	204.2	205.4	206.6	206.6
62.5°	174.1	177.6	179.9	183.4	184.5	184.5	185.7	186.8	188.0	188.0
65°	156.7	160.1	161.3	164.8	164.8	166.0	167.1	168.3	168.3	168.3
67.5°	138.1	141.6	142.7	145.1	145.1	146.2	147.4	148.5	148.5	148.5
70°	120.7	121.9	124.2	125.3	126.5	126.5	127.7	128.8	130.0	128.8
72.5°	102.1	103.3	105.6	106.8	106.8	107.9	107.9	109.1	110.2	110.2
75°	83.6	85.9	87.0	88.2	89.4	89.4	90.5	91.7	91.7	91.7
77.5°	66.1	68.5	69.6	70.8	72.0	72.0	73.1	73.1	74.3	73.1
80°	51.1	52.2	53.4	54.5	55.7	55.7	56.9	58.0	58.0	58.0
82.5°	37.1	38.3	40.6	41.8	41.8	41.8	44.1	44.1	45.3	44.1
85°	25.5	26.7	29.0	30.2	31.3	31.3	31.3	32.5	33.7	32.5
87.5°	16.2	18.6	19.7	20.9	20.9	20.9	22.0	23.2	23.2	23.2
90°	9.3	9.3	10.4	11.6	11.6	12.8	12.8	13.9	13.9	13.9
92.5°	9.3	10.4	10.4	10.4	11.6	11.6	11.6	12.8	12.8	12.8
95°	78.9	56.9	32.5	25.5	22.0	22.0	20.9	22.0	20.9	20.9
97.5°	239.1	258.8	268.1	280.8	287.8	286.6	282.0	286.6	283.2	286.6
100°	340.0	358.6	372.5	376.0	383.0	386.4	399.2	408.5	413.1	418.9
102.5°	422.4	444.5	460.7	470.0	477.0	481.6	496.7	510.6	517.6	522.2
105°	497.9	521.1	540.8	550.1	558.2	562.8	579.1	595.3	605.8	611.6
107.5°	558.2	584.9	605.8	619.7	627.8	636.0	655.7	671.9	684.7	690.5
110°	612.7	639.4	661.5	677.7	687.0	695.1	717.2	735.8	749.7	756.6



TEST NUMBER: P395436

CATALOG NUMBER: I3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	658.0	687.0	709.1	726.5	735.8	747.4	768.2	789.1	803.1	811.2
115°	695.1	725.3	748.5	767.1	777.5	788.0	812.3	833.2	847.2	853.0
117.5°	726.5	756.6	781.0	799.6	811.2	822.8	847.2	865.7	880.8	885.5
120°	752.0	782.2	806.5	827.4	839.0	849.5	872.7	892.4	906.3	909.8
122.5°	769.4	800.7	826.3	849.5	859.9	870.4	892.4	912.2	924.9	928.4
125°	782.2	814.7	840.2	864.6	875.0	885.5	906.3	926.1	936.5	941.2
127.5°	790.3	822.8	850.6	873.9	885.5	894.7	915.6	933.0	943.5	947.0
130°	792.6	826.3	854.1	878.5	888.9	898.2	918.0	935.4	944.6	947.0
132.5°	792.6	825.1	854.1	877.3	887.8	897.1	915.6	931.9	941.2	943.5
135°	788.0	819.3	848.3	871.5	882.0	891.3	909.8	923.8	933.0	934.2
137.5°	779.9	810.0	837.9	861.1	871.5	880.8	897.1	912.2	920.3	922.6
140°	769.4	797.3	825.1	847.2	857.6	865.7	882.0	894.7	902.9	905.2
142.5°	755.5	783.3	808.9	830.9	839.0	848.3	862.2	875.0	882.0	884.3
145°	740.4	767.1	790.3	810.0	819.3	827.4	840.2	851.8	858.8	861.1
147.5°	720.7	747.4	769.4	788.0	796.1	804.2	815.8	826.3	833.2	835.6
150°	696.3	720.7	743.9	761.3	769.4	777.5	789.1	798.4	805.4	806.5
152.5°	671.9	695.1	714.9	732.3	740.4	748.5	759.0	768.2	776.4	776.4
155°	648.7	668.4	687.0	702.1	709.1	716.0	726.5	734.6	741.6	741.6
157.5°	624.3	642.9	658.0	671.9	677.7	683.5	692.8	699.8	705.6	704.4
160°	601.1	615.1	629.0	640.6	646.4	651.0	658.0	663.8	669.6	668.4
162.5°	575.6	588.4	600.0	608.1	612.7	616.2	623.2	629.0	632.5	632.5
165°	546.6	558.2	568.6	576.8	581.4	583.7	589.5	593.0	596.5	596.5
167.5°	516.4	525.7	535.0	542.0	546.6	548.9	554.7	557.0	561.7	560.5
170°	486.2	493.2	500.2	506.0	508.3	510.6	515.3	517.6	519.9	519.9
172.5°	461.9	464.2	467.7	472.3	472.3	473.5	475.8	477.0	478.1	478.1
175°	448.0	449.1	449.1	449.1	449.1	449.1	450.3	449.1	450.3	449.1
177.5°	442.1	442.1	441.0	441.0	439.8	441.0	439.8	438.7	438.7	437.5
180°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8

(END OF REPORT)