

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: P395413

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395413
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-50L82765-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4358.8 lumens
Efficiency: N/A
Efficacy: 123.5 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

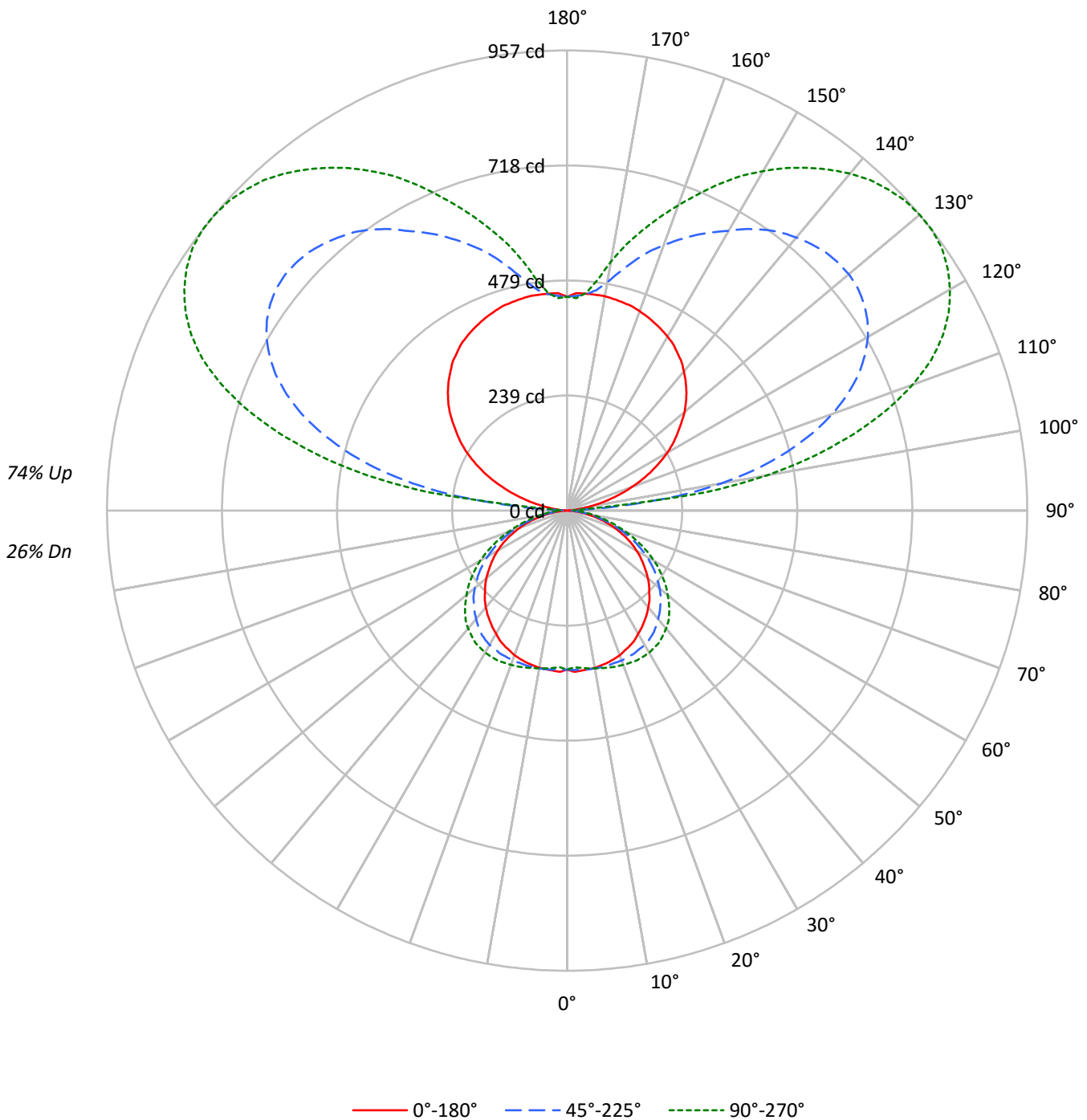
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

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°	1818	1818	1818
5°	1838	1790	1761
10°	1839	1776	1756
15°	1841	1769	1765
20°	1844	1770	1780
25°	1842	1772	1804
30°	1831	1775	1817
35°	1826	1765	1819
40°	1820	1727	1795
45°	1801	1686	1751
50°	1785	1630	1673
55°	1748	1548	1576
60°	1706	1439	1455
65°	1635	1292	1290
70°	1519	1101	1092
75°	1310	875	877
80°	1017	622	642
85°	598	384	430



TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	0.7
10°-20°	94.0	2.2
20°-30°	150.7	3.5
30°-40°	192.8	4.4
40°-50°	210.2	4.8
50°-60°	197.0	4.5
60°-70°	152.8	3.5
70°-80°	87.6	2.0
80°-90°	28.0	0.6
90°-100°	112.4	2.6
100°-110°	437.0	10.0
110°-120°	595.0	13.6
120°-130°	617.6	14.2
130°-140°	547.8	12.6
140°-150°	425.1	9.8
150°-160°	283.7	6.5
160°-170°	151.2	3.5
170°-180°	44.2	1.0
0°-30°	276.4	6.3
0°-40°	469.2	10.8
0°-60°	876.4	20.1
0°-90°	1144.8	26.3
90°-120°	1144.4	26.3
90°-150°	2734.9	62.7
90°-180°	3214.0	73.7
0°-180°	4358.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	331	331	331	331	331	
5°	334	331	332	331	328	32
15°	327	326	333	338	338	92
25°	310	312	328	340	344	143
35°	280	286	312	328	334	176
45°	242	252	274	292	300	187
55°	194	204	223	238	243	173
65°	137	143	156	167	170	135
75°	72	75	82	90	93	76
85°	14	16	25	32	33	17
90°	1	4	8	12	14	2
95°	14	80	109	22	21	19
105°	93	280	475	564	618	99
115°	194	433	669	786	862	191
125°	280	510	753	884	951	251
135°	351	537	760	891	944	270
145°	400	537	713	828	870	251
155°	430	508	632	717	750	199
165°	448	467	537	588	603	127
175°	453	450	452	454	454	43
180°	444	444	444	444	444	



TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	335.5	334.3	334.3	331.9	331.9	330.8	330.8	330.8	330.8	330.8	331.9
5°	334.3	334.3	333.1	331.9	331.9	330.8	330.8	330.8	330.8	330.8	331.9
7.5°	333.1	333.1	331.9	330.8	330.8	330.8	330.8	330.8	330.8	330.8	333.1
10°	331.9	331.9	330.8	329.6	329.6	329.6	329.6	330.8	330.8	330.8	333.1
12.5°	329.6	328.4	328.4	327.2	327.2	327.2	328.4	328.4	329.6	330.8	333.1
15°	327.2	327.2	326.1	324.9	326.1	326.1	326.1	327.2	328.4	329.6	333.1
17.5°	323.7	323.7	322.6	322.6	322.6	323.7	323.7	324.9	327.2	329.6	331.9
20°	320.2	319.0	319.0	319.0	320.2	320.2	321.4	323.7	324.9	328.4	331.9
22.5°	314.3	315.5	314.3	314.3	315.5	316.7	317.9	320.2	322.6	326.1	329.6
25°	309.7	309.7	309.7	309.7	312.0	312.0	314.3	316.7	320.2	323.7	328.4
27.5°	303.8	303.8	303.8	305.0	306.1	307.3	308.5	312.0	315.5	320.2	324.9
30°	295.6	295.6	295.6	295.6	299.1	300.3	302.6	307.3	310.8	316.7	322.6
32.5°	288.5	288.5	288.5	289.7	292.1	293.2	295.6	301.4	306.1	312.0	317.9
35°	280.3	280.3	281.5	281.5	285.0	286.2	288.5	293.2	297.9	305.0	312.0
37.5°	272.1	272.1	273.3	274.5	276.8	279.2	281.5	286.2	290.9	296.7	303.8
40°	262.7	262.7	263.9	265.1	268.6	270.9	273.3	278.0	282.7	288.5	294.4
42.5°	253.4	253.4	254.5	255.7	259.2	261.6	263.9	269.8	274.5	280.3	285.0
45°	241.6	242.8	244.0	246.3	249.8	252.2	254.5	259.2	265.1	269.8	274.5
47.5°	231.1	232.2	233.4	235.8	239.3	241.6	244.0	248.7	253.4	258.0	263.9
50°	219.3	220.5	221.7	224.0	227.5	229.9	232.2	236.9	241.6	245.1	251.0
52.5°	206.4	207.6	208.8	211.1	215.8	217.0	219.3	224.0	227.5	232.2	236.9
55°	193.5	194.7	195.9	198.2	201.7	204.1	205.3	210.0	213.5	218.2	222.9
57.5°	180.6	181.8	183.0	185.3	187.7	190.0	191.2	194.7	199.4	202.9	207.6
60°	166.6	167.7	168.9	170.1	173.6	174.8	175.9	179.5	183.0	187.7	191.2
62.5°	152.5	152.5	153.7	154.8	158.3	159.5	160.7	163.0	167.7	170.1	173.6
65°	137.2	137.2	138.4	139.6	141.9	143.1	144.3	146.6	150.1	152.5	156.0
67.5°	120.8	120.8	122.0	123.2	125.5	126.7	126.7	130.2	132.5	134.9	137.2
70°	105.6	105.6	106.7	106.7	107.9	109.1	110.3	112.6	113.8	117.3	118.5
72.5°	89.1	89.1	89.1	89.1	91.5	91.5	92.7	95.0	96.2	98.5	100.9
75°	71.5	71.5	72.7	72.7	73.9	75.1	76.2	77.4	79.8	80.9	82.1
77.5°	56.3	55.1	56.3	57.5	58.6	58.6	59.8	61.0	62.2	64.5	65.7
80°	39.9	39.9	39.9	41.1	42.2	42.2	43.4	44.6	45.7	48.1	49.3
82.5°	25.8	25.8	27.0	27.0	28.2	29.3	29.3	30.5	31.7	34.0	35.2
85°	14.1	14.1	14.1	15.2	16.4	16.4	17.6	18.8	21.1	22.3	24.6
87.5°	4.7	4.7	5.9	7.0	8.2	8.2	9.4	10.6	11.7	14.1	15.2
90°	1.2	1.2	1.2	2.3	2.3	3.5	3.5	4.7	5.9	7.0	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	21.1	34.0	54.0	70.4	79.8	88.0	96.2	112.6	113.8	109.1
97.5°	28.2	38.7	62.2	88.0	117.3	132.5	144.3	168.9	194.7	211.1	231.1
100°	46.9	62.2	92.7	127.8	161.9	181.8	200.6	235.8	267.4	295.6	326.1
102.5°	69.2	86.8	124.3	167.7	210.0	232.2	252.2	293.2	336.6	374.2	407.0
105°	92.7	112.6	157.2	206.4	254.5	280.3	305.0	349.5	395.3	436.3	475.0
107.5°	118.5	139.6	187.7	242.8	296.7	326.1	353.0	401.1	449.2	493.8	534.9
110°	143.1	166.6	217.0	276.8	337.8	367.1	394.1	446.9	497.3	544.2	587.6



TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	168.9	193.5	244.0	309.7	371.8	402.3	430.5	486.8	539.5	587.6	631.0
115°	193.5	217.0	269.8	337.8	401.1	432.8	463.3	520.8	575.9	624.0	668.6
117.5°	217.0	239.3	293.2	361.3	426.9	458.6	489.1	548.9	604.1	654.5	697.9
120°	240.4	260.4	319.0	381.2	448.1	479.7	511.4	571.2	627.5	677.9	722.5
122.5°	261.6	280.3	337.8	398.8	464.5	497.3	527.8	588.8	646.3	696.7	740.1
125°	280.3	297.9	355.4	412.9	478.6	510.2	541.9	601.7	659.2	708.4	753.0
127.5°	299.1	316.7	368.3	426.9	487.9	520.8	551.3	611.1	667.4	717.8	761.2
130°	319.0	331.9	381.2	439.8	497.3	527.8	559.5	617.0	672.1	721.3	764.7
132.5°	335.5	347.2	394.1	450.4	504.4	533.7	561.8	619.3	674.4	721.3	763.6
135°	350.7	360.1	403.5	459.8	510.2	537.2	564.2	618.1	672.1	719.0	760.1
137.5°	364.8	374.2	411.7	466.8	514.9	538.4	564.2	614.6	666.2	713.1	751.8
140°	377.7	384.7	418.7	470.3	517.3	539.5	561.8	608.7	656.8	702.6	741.3
142.5°	390.6	396.4	424.6	472.7	518.4	539.5	560.7	601.7	646.3	690.9	729.6
145°	400.0	405.8	429.3	473.9	517.3	537.2	556.0	594.7	634.6	675.6	713.1
147.5°	410.5	415.2	434.0	471.5	513.7	532.5	550.1	585.3	621.6	659.2	694.4
150°	417.6	422.3	436.3	469.2	507.9	525.5	543.1	575.9	608.7	641.6	672.1
152.5°	424.6	428.1	439.8	465.7	500.8	517.3	533.7	565.3	595.8	625.2	652.1
155°	430.5	434.0	442.2	463.3	492.6	507.9	523.1	553.6	581.8	607.6	632.2
157.5°	436.3	438.7	444.5	459.8	483.2	497.3	511.4	538.4	564.2	590.0	609.9
160°	441.0	442.2	446.9	458.6	475.0	485.6	498.5	523.1	546.6	568.9	587.6
162.5°	445.7	445.7	449.2	456.3	468.0	475.0	484.4	505.5	526.6	546.6	564.2
165°	448.1	448.1	450.4	455.1	462.1	466.8	472.7	486.8	503.2	520.8	537.2
167.5°	450.4	450.4	451.6	453.9	458.6	461.0	463.3	472.7	483.2	496.1	509.0
170°	452.7	451.6	451.6	453.9	455.1	456.3	457.4	462.1	466.8	475.0	482.1
172.5°	452.7	451.6	451.6	452.7	452.7	452.7	452.7	453.9	455.1	459.8	462.1
175°	452.7	451.6	451.6	451.6	451.6	450.4	450.4	450.4	450.4	450.4	451.6
177.5°	452.7	451.6	450.4	450.4	449.2	449.2	448.1	448.1	446.9	446.9	446.9
180°	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5



TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	331.9	331.9	330.8	330.8	329.6	329.6	328.4	327.2	326.1	326.1
5°	333.1	331.9	330.8	330.8	330.8	329.6	329.6	329.6	328.4	328.4
7.5°	333.1	333.1	333.1	331.9	331.9	331.9	331.9	331.9	330.8	330.8
10°	334.3	334.3	334.3	334.3	334.3	334.3	334.3	333.1	333.1	333.1
12.5°	334.3	334.3	334.3	335.5	335.5	335.5	335.5	335.5	335.5	335.5
15°	335.5	335.5	336.6	336.6	337.8	337.8	339.0	339.0	339.0	337.8
17.5°	334.3	335.5	336.6	337.8	339.0	339.0	340.1	340.1	340.1	340.1
20°	334.3	336.6	337.8	339.0	340.1	340.1	341.3	342.5	342.5	341.3
22.5°	333.1	335.5	336.6	339.0	340.1	340.1	342.5	342.5	342.5	342.5
25°	331.9	334.3	336.6	339.0	340.1	340.1	342.5	342.5	343.7	343.7
27.5°	329.6	331.9	335.5	337.8	339.0	340.1	341.3	342.5	342.5	342.5
30°	326.1	329.6	333.1	335.5	336.6	337.8	339.0	340.1	341.3	341.3
32.5°	321.4	324.9	328.4	331.9	333.1	334.3	336.6	337.8	337.8	337.8
35°	316.7	320.2	323.7	327.2	328.4	329.6	331.9	333.1	334.3	334.3
37.5°	309.7	313.2	316.7	320.2	321.4	323.7	326.1	327.2	327.2	327.2
40°	299.1	305.0	309.7	313.2	314.3	316.7	317.9	320.2	320.2	320.2
42.5°	289.7	294.4	297.9	302.6	303.8	307.3	309.7	310.8	312.0	312.0
45°	279.2	283.8	287.4	290.9	292.1	294.4	296.7	297.9	299.1	300.3
47.5°	268.6	272.1	275.6	279.2	280.3	282.7	285.0	286.2	287.4	287.4
50°	255.7	259.2	262.7	266.3	267.4	269.8	270.9	272.1	273.3	273.3
52.5°	241.6	245.1	248.7	252.2	253.4	254.5	256.9	258.0	259.2	259.2
55°	227.5	231.1	233.4	236.9	238.1	239.3	240.4	242.8	244.0	242.8
57.5°	211.1	214.6	217.0	220.5	221.7	222.9	224.0	225.2	226.4	226.4
60°	193.5	197.1	200.6	202.9	204.1	205.3	206.4	207.6	208.8	208.8
62.5°	175.9	179.5	181.8	185.3	186.5	186.5	187.7	188.8	190.0	190.0
65°	158.3	161.9	163.0	166.6	166.6	167.7	168.9	170.1	170.1	170.1
67.5°	139.6	143.1	144.3	146.6	146.6	147.8	149.0	150.1	150.1	150.1
70°	122.0	123.2	125.5	126.7	127.8	127.8	129.0	130.2	131.4	130.2
72.5°	103.2	104.4	106.7	107.9	107.9	109.1	109.1	110.3	111.4	111.4
75°	84.5	86.8	88.0	89.1	90.3	90.3	91.5	92.7	92.7	92.7
77.5°	66.9	69.2	70.4	71.5	72.7	72.7	73.9	73.9	75.1	73.9
80°	51.6	52.8	54.0	55.1	56.3	56.3	57.5	58.6	58.6	58.6
82.5°	37.5	38.7	41.1	42.2	42.2	42.2	44.6	44.6	45.7	44.6
85°	25.8	27.0	29.3	30.5	31.7	31.7	31.7	32.8	34.0	32.8
87.5°	16.4	18.8	19.9	21.1	21.1	21.1	22.3	23.5	23.5	23.5
90°	9.4	9.4	10.6	11.7	11.7	12.9	12.9	14.1	14.1	14.1
92.5°	9.4	10.6	10.6	10.6	11.7	11.7	11.7	12.9	12.9	12.9
95°	79.8	57.5	32.8	25.8	22.3	22.3	21.1	22.3	21.1	21.1
97.5°	241.6	261.6	270.9	283.8	290.9	289.7	285.0	289.7	286.2	289.7
100°	343.7	362.4	376.5	380.0	387.1	390.6	403.5	412.9	417.6	423.4
102.5°	426.9	449.2	465.7	475.0	482.1	486.8	502.0	516.1	523.1	527.8
105°	503.2	526.6	546.6	556.0	564.2	568.9	585.3	601.7	612.3	618.1
107.5°	564.2	591.2	612.3	626.3	634.6	642.8	662.7	679.1	692.0	697.9
110°	619.3	646.3	668.6	685.0	694.4	702.6	724.9	743.6	757.7	764.7



TEST NUMBER: P395413

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	665.0	694.4	716.7	734.2	743.6	755.4	776.5	797.6	811.7	819.9
115°	702.6	733.1	756.5	775.3	785.9	796.4	821.0	842.2	856.2	862.1
117.5°	734.2	764.7	789.4	808.1	819.9	831.6	856.2	875.0	890.2	894.9
120°	760.1	790.6	815.2	836.3	848.0	858.6	882.0	902.0	916.1	919.6
122.5°	777.6	809.3	835.1	858.6	869.1	879.7	902.0	921.9	934.8	938.3
125°	790.6	823.4	849.2	873.8	884.4	894.9	916.1	936.0	946.5	951.2
127.5°	798.8	831.6	859.8	883.2	894.9	904.3	925.4	943.0	953.6	957.1
130°	801.1	835.1	863.3	887.9	898.5	907.8	927.8	945.4	954.8	957.1
132.5°	801.1	833.9	863.3	886.7	897.3	906.7	925.4	941.9	951.2	953.6
135°	796.4	828.1	857.4	880.9	891.4	900.8	919.6	933.6	943.0	944.2
137.5°	788.2	818.7	846.9	870.3	880.9	890.2	906.7	921.9	930.1	932.5
140°	777.6	805.8	833.9	856.2	866.8	875.0	891.4	904.3	912.5	914.9
142.5°	763.6	791.7	817.5	839.8	848.0	857.4	871.5	884.4	891.4	893.8
145°	748.3	775.3	798.8	818.7	828.1	836.3	849.2	860.9	868.0	870.3
147.5°	728.4	755.4	777.6	796.4	804.6	812.8	824.6	835.1	842.2	844.5
150°	703.8	728.4	751.8	769.4	777.6	785.9	797.6	807.0	814.0	815.2
152.5°	679.1	702.6	722.5	740.1	748.3	756.5	767.1	776.5	784.7	784.7
155°	655.7	675.6	694.4	709.6	716.7	723.7	734.2	742.5	749.5	749.5
157.5°	631.0	649.8	665.0	679.1	685.0	690.9	700.2	707.3	713.1	712.0
160°	607.6	621.6	635.7	647.5	653.3	658.0	665.0	670.9	676.8	675.6
162.5°	581.8	594.7	606.4	614.6	619.3	622.8	629.9	635.7	639.2	639.2
165°	552.4	564.2	574.7	582.9	587.6	590.0	595.8	599.4	602.9	602.9
167.5°	522.0	531.3	540.7	547.8	552.4	554.8	560.7	563.0	567.7	566.5
170°	491.5	498.5	505.5	511.4	513.7	516.1	520.8	523.1	525.5	525.5
172.5°	466.8	469.2	472.7	477.4	477.4	478.6	480.9	482.1	483.2	483.2
175°	452.7	453.9	453.9	453.9	453.9	453.9	455.1	453.9	455.1	453.9
177.5°	446.9	446.9	445.7	445.7	444.5	445.7	444.5	443.4	443.4	442.2
180°	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5	444.5

(END OF REPORT)