

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: P395728

Luminaire Tested: **I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, OPEN TOP
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5122.3 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

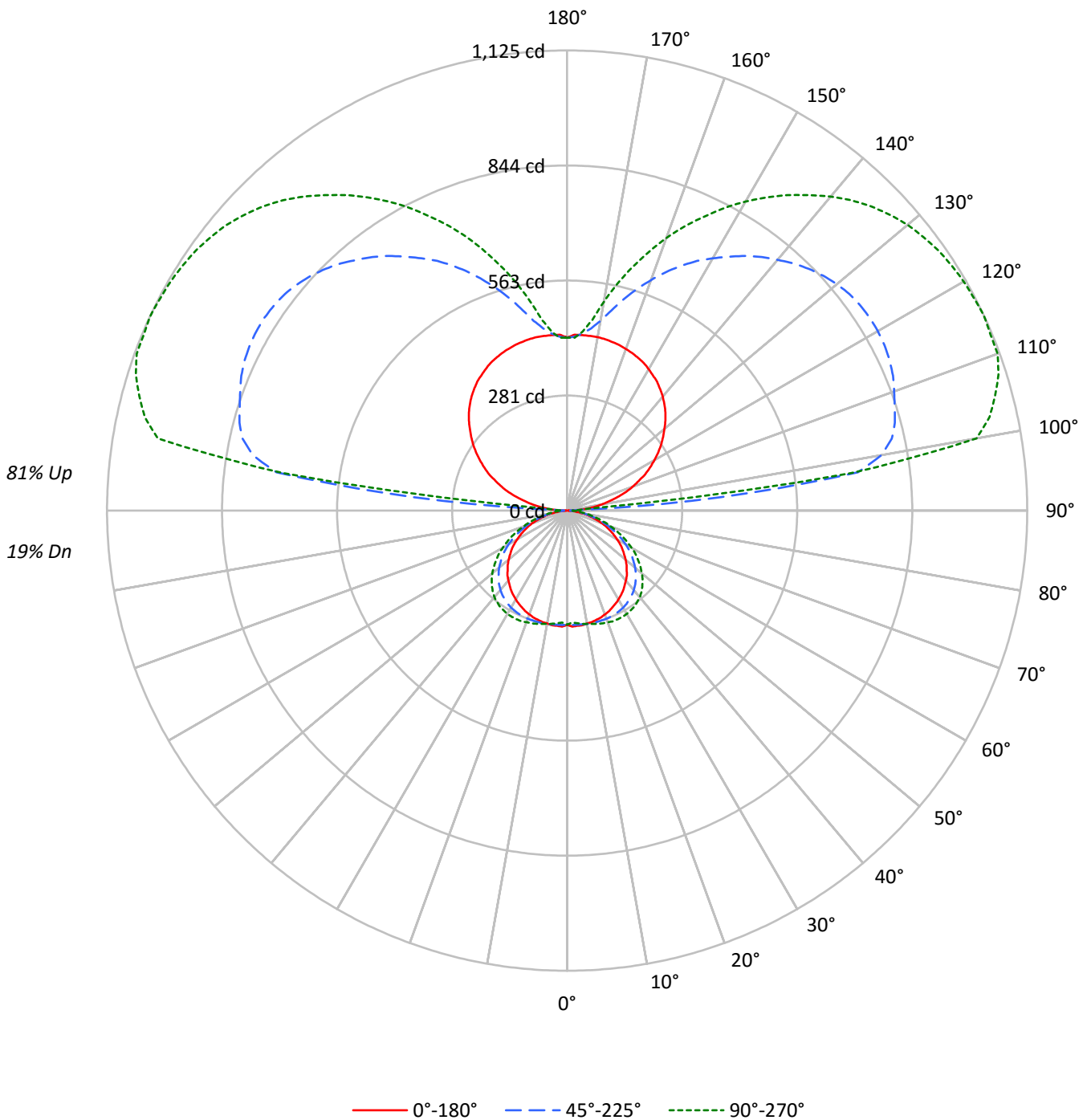
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16				
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11				
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9				
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8				
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7				
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1534	1534	1534
5°	1555	1511	1482
10°	1552	1501	1484
15°	1556	1495	1497
20°	1556	1501	1514
25°	1554	1505	1537
30°	1556	1507	1552
35°	1555	1500	1559
40°	1548	1488	1550
45°	1534	1457	1516
50°	1520	1410	1460
55°	1494	1341	1377
60°	1448	1245	1267
65°	1384	1108	1130
70°	1308	961	953
75°	1134	754	765
80°	900	542	553
85°	535	315	364



TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	0.5
10°-20°	79.6	1.6
20°-30°	128.1	2.5
30°-40°	164.8	3.2
40°-50°	181.0	3.5
50°-60°	170.1	3.3
60°-70°	132.2	2.6
70°-80°	75.8	1.5
80°-90°	24.3	0.5
90°-100°	327.4	6.4
100°-110°	778.1	15.2
110°-120°	781.7	15.3
120°-130°	716.8	14.0
130°-140°	599.4	11.7
140°-150°	449.9	8.8
150°-160°	292.9	5.7
160°-170°	150.8	2.9
170°-180°	42.7	0.8
0°-30°	234.4	4.6
0°-40°	399.1	7.8
0°-60°	750.3	14.6
0°-90°	982.6	19.2
90°-120°	1887.2	36.8
90°-150°	3653.3	71.3
90°-180°	4140.0	80.8
0°-180°	5122.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	279	279	279	279	279	
5°	283	280	280	279	276	27
15°	276	275	282	285	287	78
25°	261	264	279	289	293	121
35°	239	245	265	282	287	149
45°	206	216	237	255	260	159
55°	165	174	193	207	212	147
65°	116	122	134	145	149	115
75°	62	64	71	78	81	66
85°	13	15	20	26	28	15
90°	1	4	8	11	13	4
95°	44	366	376	50	43	44
105°	128	491	829	1022	1083	135
115°	211	553	870	1058	1125	207
125°	280	577	875	1048	1108	250
135°	340	574	836	994	1052	262
145°	384	550	760	892	942	240
155°	412	505	660	756	793	190
165°	427	456	535	593	616	121
175°	430	429	434	439	439	41
180°	423	423	423	423	423	



TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
2.5°	284.0	282.8	281.5	281.5	280.2	280.2	280.2	279.0	279.0	279.0	280.2
5°	282.8	282.8	281.5	280.2	280.2	280.2	279.0	279.0	279.0	279.0	280.2
7.5°	282.8	281.5	280.2	280.2	279.0	279.0	279.0	279.0	279.0	279.0	280.2
10°	280.2	280.2	279.0	279.0	277.7	279.0	279.0	279.0	279.0	279.0	281.5
12.5°	279.0	279.0	277.7	276.5	276.5	276.5	277.7	277.7	277.7	279.0	281.5
15°	276.5	276.5	275.2	275.2	275.2	275.2	276.5	276.5	277.7	279.0	281.5
17.5°	273.9	273.9	272.7	272.7	272.7	273.9	273.9	275.2	276.5	279.0	281.5
20°	270.1	270.1	270.1	270.1	270.1	271.4	271.4	272.7	275.2	277.7	281.5
22.5°	266.4	266.4	266.4	266.4	266.4	267.6	268.9	271.4	272.7	276.5	280.2
25°	261.3	261.3	261.3	261.3	262.6	263.8	265.1	267.6	270.1	273.9	279.0
27.5°	256.3	257.5	257.5	257.5	258.8	260.0	261.3	263.8	267.6	272.7	276.5
30°	251.2	251.2	251.2	252.5	253.7	255.0	257.5	260.0	263.8	268.9	273.9
32.5°	244.9	244.9	246.2	246.2	248.7	250.0	252.5	256.3	260.0	265.1	270.1
35°	238.6	238.6	238.6	241.1	242.4	244.9	246.2	250.0	255.0	260.0	265.1
37.5°	231.0	232.3	232.3	233.5	236.1	238.6	239.9	244.9	250.0	255.0	260.0
40°	223.4	224.7	224.7	226.0	229.8	231.0	233.5	238.6	242.4	248.7	253.7
42.5°	215.9	215.9	217.1	218.4	222.2	223.4	226.0	231.0	236.1	241.1	246.2
45°	205.8	207.0	208.3	209.6	213.3	215.9	218.4	222.2	227.2	232.3	237.3
47.5°	196.9	196.9	198.2	200.7	204.5	207.0	208.3	213.3	217.1	222.2	227.2
50°	186.8	188.1	188.1	190.6	194.4	196.9	198.2	203.2	207.0	212.1	217.1
52.5°	175.5	176.7	178.0	180.5	184.3	186.8	188.1	191.9	195.7	200.7	204.5
55°	165.4	166.6	166.6	169.2	172.9	174.2	176.7	179.3	184.3	188.1	193.1
57.5°	154.0	155.3	155.3	157.8	160.3	162.8	164.1	167.9	171.7	175.5	179.3
60°	141.4	142.6	143.9	145.2	147.7	150.2	151.5	154.0	157.8	161.6	165.4
62.5°	128.8	130.0	131.3	132.5	135.1	136.3	137.6	141.4	143.9	147.7	150.2
65°	116.1	117.4	118.7	119.9	121.2	122.5	123.7	126.2	128.8	132.5	133.8
67.5°	103.5	104.8	104.8	106.0	107.3	108.6	109.8	112.4	113.6	117.4	118.7
70°	90.9	90.9	90.9	92.2	92.2	93.4	94.7	97.2	98.5	101.0	103.5
72.5°	75.7	77.0	77.0	77.0	78.3	79.5	80.8	82.1	83.3	84.6	87.1
75°	61.9	63.1	61.9	63.1	64.4	64.4	65.6	66.9	68.2	69.4	70.7
77.5°	49.2	48.0	49.2	49.2	50.5	50.5	50.5	51.8	54.3	54.3	56.8
80°	35.3	35.3	35.3	35.3	36.6	36.6	37.9	37.9	40.4	41.7	42.9
82.5°	22.7	22.7	24.0	24.0	24.0	25.2	25.2	26.5	27.8	29.0	30.3
85°	12.6	12.6	12.6	13.9	13.9	15.1	15.1	16.4	17.7	18.9	20.2
87.5°	3.8	5.0	6.3	6.3	7.6	7.6	8.8	8.8	11.4	12.6	13.9
90°	1.3	1.3	2.5	2.5	2.5	3.8	3.8	5.0	5.0	6.3	7.6
92.5°	21.5	50.5	104.8	156.5	135.1	126.2	75.7	22.7	20.2	21.5	21.5
95°	44.2	83.3	152.7	247.4	320.6	366.1	396.4	454.5	513.8	503.7	376.2
97.5°	64.4	107.3	184.3	271.4	372.4	424.2	463.3	532.7	608.5	671.6	717.0
100°	84.6	128.8	210.8	301.7	395.1	441.8	487.3	582.0	656.4	719.6	780.1
102.5°	106.0	150.2	234.8	329.5	421.6	467.1	511.3	594.6	677.9	753.6	813.0
105°	127.5	172.9	256.3	353.5	445.6	491.1	534.0	613.5	690.5	761.2	829.4
107.5°	150.2	193.1	275.2	372.4	464.6	510.0	552.9	632.5	706.9	777.6	839.5
110°	170.4	212.1	294.1	390.1	482.2	527.7	570.6	650.1	723.3	790.2	850.8



TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	189.4	229.8	311.8	405.2	496.1	541.6	583.2	662.7	736.0	801.6	862.2
115°	210.8	246.2	329.5	419.1	508.7	552.9	594.6	672.8	746.1	810.4	869.8
117.5°	228.5	262.6	344.6	430.5	518.8	561.8	602.2	680.4	752.4	816.8	874.8
120°	246.2	277.7	358.5	440.6	526.4	568.1	608.5	685.5	757.4	820.5	877.4
122.5°	263.8	292.9	369.9	450.7	532.7	574.4	613.5	689.3	760.0	821.8	877.4
125°	280.2	305.5	380.0	458.2	536.5	576.9	614.8	689.3	758.7	819.3	874.8
127.5°	295.4	319.4	387.6	465.8	539.0	578.2	614.8	686.7	756.2	815.5	869.8
130°	310.5	332.0	395.1	469.6	541.6	576.9	612.3	681.7	749.9	809.2	860.9
132.5°	325.7	345.9	401.4	473.4	542.8	576.9	609.7	676.6	742.3	800.3	849.6
135°	339.6	356.0	407.7	475.9	541.6	574.4	604.7	667.8	730.9	787.7	835.7
137.5°	352.2	366.1	412.8	477.2	540.3	570.6	600.9	657.7	717.0	772.6	819.3
140°	363.6	376.2	415.3	477.2	535.2	565.5	593.3	647.6	701.9	754.9	800.3
142.5°	373.7	385.0	419.1	474.7	530.2	559.2	585.7	637.5	686.7	737.2	781.4
145°	383.8	392.6	421.6	473.4	523.9	550.4	575.6	624.9	672.8	718.3	760.0
147.5°	391.3	400.2	424.2	468.3	516.3	540.3	564.3	611.0	655.2	698.1	736.0
150°	398.9	406.5	425.4	463.3	507.5	528.9	550.4	594.6	637.5	676.6	712.0
152.5°	406.5	411.5	429.2	458.2	497.4	517.6	539.0	578.2	617.3	653.9	688.0
155°	411.5	415.3	430.5	453.2	487.3	505.0	522.6	559.2	594.6	628.7	660.2
157.5°	416.6	420.4	431.7	449.4	475.9	492.3	507.5	539.0	571.9	602.2	631.2
160°	420.4	422.9	431.7	446.9	465.8	477.2	491.1	520.1	547.9	574.4	599.6
162.5°	424.2	425.4	431.7	443.1	457.0	464.6	474.7	497.4	522.6	545.3	568.1
165°	426.7	427.9	431.7	440.6	449.4	455.7	460.8	477.2	496.1	516.3	535.2
167.5°	429.2	429.2	431.7	438.0	443.1	446.9	450.7	459.5	472.1	487.3	501.2
170°	430.5	430.5	431.7	435.5	439.3	440.6	443.1	448.1	454.5	462.0	470.9
172.5°	430.5	430.5	430.5	433.0	434.3	434.3	434.3	436.8	440.6	445.6	449.4
175°	430.5	429.2	429.2	430.5	429.2	429.2	429.2	429.2	430.5	433.0	434.3
177.5°	430.5	429.2	427.9	427.9	426.7	426.7	425.4	425.4	425.4	425.4	425.4
180°	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9



TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0
2.5°	280.2	280.2	279.0	277.7	277.7	277.7	276.5	275.2	273.9	273.9
5°	280.2	280.2	279.0	279.0	279.0	279.0	277.7	277.7	276.5	276.5
7.5°	281.5	280.2	280.2	280.2	280.2	280.2	280.2	280.2	279.0	279.0
10°	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5
12.5°	282.8	282.8	282.8	282.8	284.0	284.0	284.0	284.0	284.0	284.0
15°	282.8	284.0	285.3	285.3	285.3	286.6	286.6	286.6	286.6	286.6
17.5°	284.0	285.3	286.6	286.6	287.8	287.8	289.1	289.1	289.1	289.1
20°	284.0	285.3	286.6	287.8	289.1	289.1	290.3	291.6	291.6	290.3
22.5°	282.8	285.3	286.6	287.8	289.1	290.3	291.6	292.9	292.9	292.9
25°	281.5	284.0	286.6	289.1	289.1	290.3	292.9	292.9	292.9	292.9
27.5°	280.2	282.8	285.3	287.8	289.1	290.3	291.6	292.9	292.9	292.9
30°	277.7	281.5	284.0	286.6	287.8	289.1	290.3	291.6	291.6	291.6
32.5°	273.9	277.7	280.2	284.0	285.3	286.6	287.8	289.1	289.1	289.1
35°	270.1	273.9	276.5	280.2	281.5	282.8	285.3	285.3	286.6	286.6
37.5°	263.8	268.9	271.4	275.2	276.5	277.7	280.2	281.5	281.5	281.5
40°	257.5	262.6	265.1	268.9	270.1	271.4	273.9	275.2	276.5	276.5
42.5°	250.0	255.0	257.5	261.3	262.6	263.8	266.4	267.6	268.9	268.9
45°	242.4	246.2	248.7	252.5	255.0	255.0	257.5	258.8	260.0	260.0
47.5°	232.3	236.1	238.6	242.4	244.9	246.2	247.4	248.7	250.0	250.0
50°	220.9	224.7	228.5	231.0	233.5	233.5	236.1	237.3	238.6	238.6
52.5°	209.6	212.1	215.9	219.7	220.9	222.2	223.4	224.7	226.0	226.0
55°	196.9	199.5	203.2	205.8	207.0	208.3	209.6	210.8	212.1	212.1
57.5°	183.0	185.6	189.4	191.9	193.1	194.4	195.7	196.9	198.2	198.2
60°	167.9	170.4	174.2	176.7	178.0	178.0	180.5	181.8	181.8	181.8
62.5°	152.7	155.3	157.8	160.3	161.6	162.8	164.1	165.4	165.4	165.4
65°	137.6	140.1	142.6	143.9	145.2	145.2	146.4	147.7	149.0	149.0
67.5°	121.2	123.7	126.2	127.5	128.8	128.8	130.0	131.3	131.3	131.3
70°	104.8	106.0	108.6	109.8	111.1	111.1	113.6	113.6	113.6	113.6
72.5°	88.4	89.6	92.2	93.4	94.7	94.7	95.9	97.2	97.2	97.2
75°	73.2	74.5	75.7	78.3	78.3	78.3	79.5	80.8	80.8	80.8
77.5°	58.1	59.3	60.6	61.9	63.1	63.1	64.4	65.6	65.6	65.6
80°	44.2	45.4	46.7	48.0	48.0	49.2	49.2	50.5	50.5	50.5
82.5°	31.6	32.8	34.1	35.3	36.6	36.6	37.9	39.1	39.1	37.9
85°	21.5	24.0	25.2	26.5	26.5	26.5	27.8	29.0	29.0	27.8
87.5°	15.1	15.1	16.4	17.7	17.7	18.9	18.9	20.2	20.2	20.2
90°	8.8	8.8	10.1	10.1	11.4	11.4	11.4	12.6	12.6	12.6
92.5°	21.5	21.5	22.7	22.7	22.7	22.7	24.0	24.0	24.0	24.0
95°	229.8	103.5	87.1	53.0	50.5	44.2	42.9	44.2	44.2	42.9
97.5°	771.3	825.6	859.7	876.1	855.9	834.4	810.4	806.7	773.8	700.6
100°	831.9	874.8	916.5	945.5	956.9	967.0	989.7	1003.6	1009.9	1016.2
102.5°	862.2	907.6	944.3	980.9	996.0	1009.9	1030.1	1046.5	1052.8	1057.9
105°	888.7	935.4	975.8	1008.6	1022.5	1035.1	1055.3	1070.5	1081.9	1083.1
107.5°	895.0	944.3	989.7	1030.1	1046.5	1060.4	1084.4	1095.7	1105.8	1105.8
110°	906.4	953.1	994.8	1031.4	1047.8	1064.2	1089.4	1107.1	1117.2	1119.7



TEST NUMBER: P395728

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	915.2	963.2	1002.3	1038.9	1052.8	1068.0	1092.0	1108.4	1117.2	1121.0
115°	922.8	969.5	1008.6	1042.7	1057.9	1073.0	1097.0	1110.9	1121.0	1124.8
117.5°	927.8	973.3	1012.4	1044.0	1060.4	1073.0	1095.7	1110.9	1121.0	1122.3
120°	929.1	974.6	1012.4	1044.0	1057.9	1071.8	1094.5	1109.6	1119.7	1119.7
122.5°	929.1	973.3	1011.2	1041.5	1054.1	1066.7	1088.2	1105.8	1114.7	1114.7
125°	924.1	968.2	1004.9	1035.1	1047.8	1059.1	1081.9	1098.3	1107.1	1108.4
127.5°	916.5	959.4	996.0	1026.3	1038.9	1049.0	1073.0	1088.2	1097.0	1098.3
130°	906.4	949.3	984.7	1013.7	1026.3	1037.7	1057.9	1074.3	1084.4	1086.9
132.5°	895.0	935.4	970.8	998.5	1011.2	1021.3	1041.5	1057.9	1066.7	1070.5
135°	881.1	919.0	953.1	980.9	993.5	1003.6	1022.5	1038.9	1047.8	1051.6
137.5°	863.5	900.1	932.9	960.7	972.0	982.1	1001.1	1016.2	1023.8	1028.8
140°	843.3	877.4	911.4	936.7	948.0	958.1	974.6	991.0	998.5	1002.3
142.5°	821.8	855.9	886.2	911.4	921.5	931.6	948.0	963.2	970.8	972.0
145°	799.1	831.9	859.7	883.7	892.5	902.6	917.7	932.9	940.5	941.7
147.5°	773.8	804.1	830.6	853.4	863.5	871.0	884.9	898.8	906.4	907.6
150°	744.8	772.6	796.6	819.3	828.1	835.7	850.8	863.5	871.0	872.3
152.5°	717.0	743.5	763.7	783.9	792.8	800.3	813.0	825.6	833.2	834.4
155°	688.0	712.0	732.2	748.6	756.2	763.7	773.8	785.2	791.5	792.8
157.5°	657.7	680.4	698.1	713.2	720.8	727.1	736.0	746.1	749.9	752.4
160°	624.9	643.8	659.0	674.1	680.4	686.7	695.6	703.1	708.2	709.5
162.5°	589.5	605.9	618.6	632.5	636.2	641.3	650.1	657.7	661.5	662.7
165°	552.9	568.1	579.4	590.8	593.3	597.1	603.4	611.0	613.5	616.0
167.5°	516.3	528.9	536.5	546.6	550.4	552.9	559.2	564.3	566.8	568.1
170°	481.0	489.8	496.1	503.7	505.0	508.7	512.5	517.6	518.8	518.8
172.5°	453.2	457.0	460.8	463.3	464.6	465.8	468.3	469.6	469.6	469.6
175°	435.5	438.0	438.0	439.3	439.3	439.3	439.3	439.3	439.3	439.3
177.5°	425.4	425.4	425.4	424.2	424.2	424.2	424.2	422.9	422.9	422.9
180°	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9

(END OF REPORT)