

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: P395727

Luminaire Tested: **I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395727  
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 (4000K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5031.5 lumens  
Efficiency: N/A  
Efficacy: 140.2 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

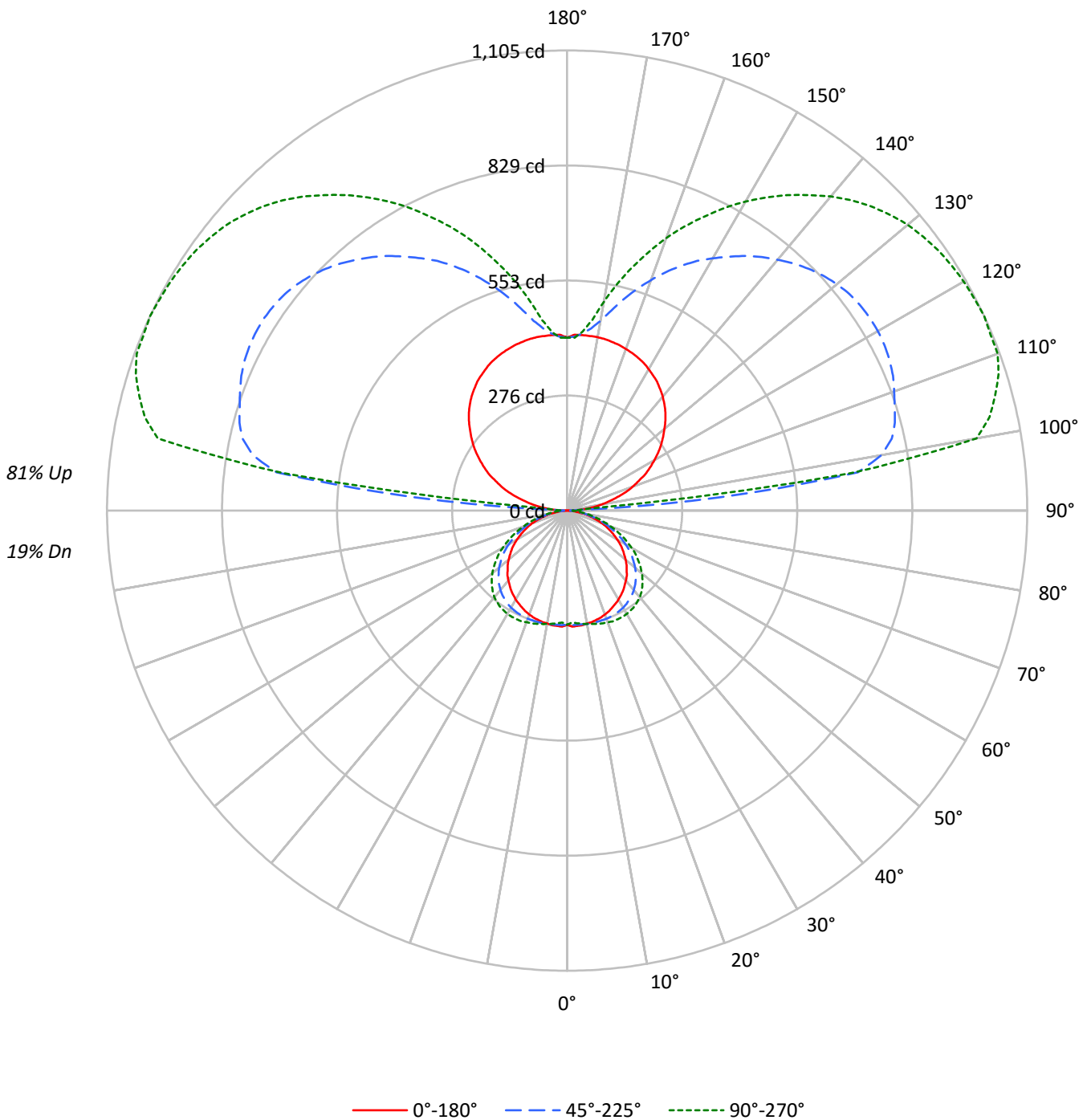
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395727

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395727

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1506	1506	1506
5°	1527	1484	1456
10°	1525	1474	1458
15°	1528	1469	1470
20°	1529	1475	1488
25°	1527	1478	1510
30°	1529	1481	1524
35°	1527	1473	1531
40°	1521	1462	1523
45°	1507	1431	1489
50°	1493	1385	1434
55°	1467	1318	1352
60°	1422	1222	1245
65°	1360	1089	1110
70°	1285	945	936
75°	1114	740	751
80°	885	533	543
85°	526	309	358



TEST NUMBER: P395727

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	0.5
10°-20°	78.2	1.6
20°-30°	125.8	2.5
30°-40°	161.9	3.2
40°-50°	177.8	3.5
50°-60°	167.1	3.3
60°-70°	129.8	2.6
70°-80°	74.5	1.5
80°-90°	23.9	0.5
90°-100°	321.6	6.4
100°-110°	764.3	15.2
110°-120°	767.8	15.3
120°-130°	704.1	14.0
130°-140°	588.8	11.7
140°-150°	441.9	8.8
150°-160°	287.7	5.7
160°-170°	148.1	2.9
170°-180°	41.9	0.8
0°-30°	230.2	4.6
0°-40°	392.1	7.8
0°-60°	737.0	14.6
0°-90°	965.2	19.2
90°-120°	1853.8	36.8
90°-150°	3588.6	71.3
90°-180°	4066.0	80.8
0°-180°	5031.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	278	275	275	274	272	26
15°	272	270	276	280	282	77
25°	257	259	274	284	288	118
35°	234	241	260	276	282	147
45°	202	212	233	250	255	156
55°	162	171	190	203	208	145
65°	114	120	131	143	146	113
75°	61	63	69	77	79	65
85°	12	15	20	26	27	15
90°	1	4	7	11	12	4
95°	43	360	370	50	42	43
105°	125	482	815	1004	1064	133
115°	207	543	854	1039	1105	204
125°	275	567	859	1029	1089	246
135°	334	564	821	976	1033	257
145°	377	541	746	877	925	236
155°	404	496	648	743	779	187
165°	419	448	526	583	605	119
175°	423	422	427	432	432	40
180°	415	415	415	415	415	



TEST NUMBER: P395727

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
2.5°	279.0	277.8	276.5	276.5	275.3	275.3	275.3	274.0	274.0	274.0	275.3
5°	277.8	277.8	276.5	275.3	275.3	275.3	274.0	274.0	274.0	274.0	275.3
7.5°	277.8	276.5	275.3	275.3	274.0	274.0	274.0	274.0	274.0	274.0	275.3
10°	275.3	275.3	274.0	274.0	272.8	274.0	274.0	274.0	274.0	274.0	276.5
12.5°	274.0	274.0	272.8	271.6	271.6	271.6	272.8	272.8	272.8	274.0	276.5
15°	271.6	271.6	270.3	270.3	270.3	270.3	271.6	271.6	272.8	274.0	276.5
17.5°	269.1	269.1	267.8	267.8	267.8	269.1	269.1	270.3	271.6	274.0	276.5
20°	265.4	265.4	265.4	265.4	265.4	266.6	266.6	267.8	270.3	272.8	276.5
22.5°	261.6	261.6	261.6	261.6	261.6	262.9	264.1	266.6	267.8	271.6	275.3
25°	256.7	256.7	256.7	256.7	257.9	259.2	260.4	262.9	265.4	269.1	274.0
27.5°	251.7	253.0	253.0	253.0	254.2	255.4	256.7	259.2	262.9	267.8	271.6
30°	246.8	246.8	246.8	248.0	249.2	250.5	253.0	255.4	259.2	264.1	269.1
32.5°	240.6	240.6	241.8	241.8	244.3	245.5	248.0	251.7	255.4	260.4	265.4
35°	234.4	234.4	234.4	236.8	238.1	240.6	241.8	245.5	250.5	255.4	260.4
37.5°	226.9	228.2	228.2	229.4	231.9	234.4	235.6	240.6	245.5	250.5	255.4
40°	219.5	220.7	220.7	222.0	225.7	226.9	229.4	234.4	238.1	244.3	249.2
42.5°	212.0	212.0	213.3	214.5	218.2	219.5	222.0	226.9	231.9	236.8	241.8
45°	202.1	203.4	204.6	205.8	209.6	212.0	214.5	218.2	223.2	228.2	233.1
47.5°	193.4	193.4	194.7	197.2	200.9	203.4	204.6	209.6	213.3	218.2	223.2
50°	183.5	184.8	184.8	187.2	191.0	193.4	194.7	199.6	203.4	208.3	213.3
52.5°	172.4	173.6	174.8	177.3	181.0	183.5	184.8	188.5	192.2	197.2	200.9
55°	162.4	163.7	163.7	166.2	169.9	171.1	173.6	176.1	181.0	184.8	189.7
57.5°	151.3	152.5	152.5	155.0	157.5	160.0	161.2	164.9	168.6	172.4	176.1
60°	138.9	140.1	141.4	142.6	145.1	147.6	148.8	151.3	155.0	158.7	162.4
62.5°	126.5	127.7	129.0	130.2	132.7	133.9	135.2	138.9	141.4	145.1	147.6
65°	114.1	115.3	116.6	117.8	119.0	120.3	121.5	124.0	126.5	130.2	131.4
67.5°	101.7	102.9	102.9	104.2	105.4	106.6	107.9	110.4	111.6	115.3	116.6
70°	89.3	89.3	89.3	90.5	90.5	91.8	93.0	95.5	96.7	99.2	101.7
72.5°	74.4	75.6	75.6	75.6	76.9	78.1	79.4	80.6	81.8	83.1	85.6
75°	60.8	62.0	60.8	62.0	63.2	63.2	64.5	65.7	67.0	68.2	69.4
77.5°	48.4	47.1	48.4	48.4	49.6	49.6	49.6	50.8	53.3	53.3	55.8
80°	34.7	34.7	34.7	34.7	36.0	36.0	37.2	37.2	39.7	40.9	42.2
82.5°	22.3	22.3	23.6	23.6	23.6	24.8	24.8	26.0	27.3	28.5	29.8
85°	12.4	12.4	12.4	13.6	13.6	14.9	14.9	16.1	17.4	18.6	19.8
87.5°	3.7	5.0	6.2	6.2	7.4	7.4	8.7	8.7	11.2	12.4	13.6
90°	1.2	1.2	2.5	2.5	2.5	3.7	3.7	5.0	5.0	6.2	7.4
92.5°	21.1	49.6	102.9	153.8	132.7	124.0	74.4	22.3	19.8	21.1	21.1
95°	43.4	81.8	150.0	243.0	315.0	359.6	389.4	446.4	504.7	494.8	369.5
97.5°	63.2	105.4	181.0	266.6	365.8	416.6	455.1	523.3	597.7	659.7	704.3
100°	83.1	126.5	207.1	296.4	388.1	434.0	478.6	571.6	644.8	706.8	766.3
102.5°	104.2	147.6	230.6	323.6	414.2	458.8	502.2	584.0	665.9	740.3	798.6
105°	125.2	169.9	251.7	347.2	437.7	482.4	524.5	602.6	678.3	747.7	814.7
107.5°	147.6	189.7	270.3	365.8	456.3	501.0	543.1	621.2	694.4	763.8	824.6
110°	167.4	208.3	288.9	383.2	473.7	518.3	560.5	638.6	710.5	776.2	835.8



TEST NUMBER: P395727

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	186.0	225.7	306.3	398.0	487.3	532.0	572.9	651.0	722.9	787.4	846.9
115°	207.1	241.8	323.6	411.7	499.7	543.1	584.0	660.9	732.8	796.1	854.4
117.5°	224.4	257.9	338.5	422.8	509.6	551.8	591.5	668.4	739.0	802.3	859.3
120°	241.8	272.8	352.2	432.8	517.1	558.0	597.7	673.3	744.0	806.0	861.8
122.5°	259.2	287.7	363.3	442.7	523.3	564.2	602.6	677.0	746.5	807.2	861.8
125°	275.3	300.1	373.2	450.1	527.0	566.7	603.9	677.0	745.2	804.8	859.3
127.5°	290.2	313.7	380.7	457.6	529.5	567.9	603.9	674.6	742.8	801.0	854.4
130°	305.0	326.1	388.1	461.3	532.0	566.7	601.4	669.6	736.6	794.8	845.7
132.5°	319.9	339.8	394.3	465.0	533.2	566.7	598.9	664.6	729.1	786.2	834.5
135°	333.6	349.7	400.5	467.5	532.0	564.2	594.0	656.0	718.0	773.8	820.9
137.5°	346.0	359.6	405.5	468.7	530.7	560.5	590.2	646.0	704.3	758.9	804.8
140°	357.1	369.5	408.0	468.7	525.8	555.5	582.8	636.1	689.4	741.5	786.2
142.5°	367.0	378.2	411.7	466.2	520.8	549.3	575.4	626.2	674.6	724.2	767.6
145°	377.0	385.6	414.2	465.0	514.6	540.6	565.4	613.8	660.9	705.6	746.5
147.5°	384.4	393.1	416.6	460.0	507.2	530.7	554.3	600.2	643.6	685.7	722.9
150°	391.8	399.3	417.9	455.1	498.5	519.6	540.6	584.0	626.2	664.6	699.4
152.5°	399.3	404.2	421.6	450.1	488.6	508.4	529.5	567.9	606.4	642.3	675.8
155°	404.2	408.0	422.8	445.2	478.6	496.0	513.4	549.3	584.0	617.5	648.5
157.5°	409.2	412.9	424.1	441.4	467.5	483.6	498.5	529.5	561.7	591.5	620.0
160°	412.9	415.4	424.1	439.0	457.6	468.7	482.4	510.9	538.2	564.2	589.0
162.5°	416.6	417.9	424.1	435.2	448.9	456.3	466.2	488.6	513.4	535.7	558.0
165°	419.1	420.4	424.1	432.8	441.4	447.6	452.6	468.7	487.3	507.2	525.8
167.5°	421.6	421.6	424.1	430.3	435.2	439.0	442.7	451.4	463.8	478.6	492.3
170°	422.8	422.8	424.1	427.8	431.5	432.8	435.2	440.2	446.4	453.8	462.5
172.5°	422.8	422.8	422.8	425.3	426.6	426.6	426.6	429.0	432.8	437.7	441.4
175°	422.8	421.6	421.6	422.8	421.6	421.6	421.6	421.6	422.8	425.3	426.6
177.5°	422.8	421.6	420.4	420.4	419.1	419.1	417.9	417.9	417.9	417.9	417.9
180°	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4



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CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
2.5°	275.3	275.3	274.0	272.8	272.8	272.8	271.6	270.3	269.1	269.1
5°	275.3	275.3	274.0	274.0	274.0	274.0	272.8	272.8	271.6	271.6
7.5°	276.5	275.3	275.3	275.3	275.3	275.3	275.3	275.3	274.0	274.0
10°	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5
12.5°	277.8	277.8	277.8	277.8	279.0	279.0	279.0	279.0	279.0	279.0
15°	277.8	279.0	280.2	280.2	280.2	281.5	281.5	281.5	281.5	281.5
17.5°	279.0	280.2	281.5	281.5	282.7	282.7	284.0	284.0	284.0	284.0
20°	279.0	280.2	281.5	282.7	284.0	284.0	285.2	286.4	286.4	285.2
22.5°	277.8	280.2	281.5	282.7	284.0	285.2	286.4	287.7	287.7	287.7
25°	276.5	279.0	281.5	284.0	284.0	285.2	287.7	287.7	287.7	287.7
27.5°	275.3	277.8	280.2	282.7	284.0	285.2	286.4	287.7	287.7	287.7
30°	272.8	276.5	279.0	281.5	282.7	284.0	285.2	286.4	286.4	286.4
32.5°	269.1	272.8	275.3	279.0	280.2	281.5	282.7	284.0	284.0	284.0
35°	265.4	269.1	271.6	275.3	276.5	277.8	280.2	280.2	281.5	281.5
37.5°	259.2	264.1	266.6	270.3	271.6	272.8	275.3	276.5	276.5	276.5
40°	253.0	257.9	260.4	264.1	265.4	266.6	269.1	270.3	271.6	271.6
42.5°	245.5	250.5	253.0	256.7	257.9	259.2	261.6	262.9	264.1	264.1
45°	238.1	241.8	244.3	248.0	250.5	250.5	253.0	254.2	255.4	255.4
47.5°	228.2	231.9	234.4	238.1	240.6	241.8	243.0	244.3	245.5	245.5
50°	217.0	220.7	224.4	226.9	229.4	229.4	231.9	233.1	234.4	234.4
52.5°	205.8	208.3	212.0	215.8	217.0	218.2	219.5	220.7	222.0	222.0
55°	193.4	195.9	199.6	202.1	203.4	204.6	205.8	207.1	208.3	208.3
57.5°	179.8	182.3	186.0	188.5	189.7	191.0	192.2	193.4	194.7	194.7
60°	164.9	167.4	171.1	173.6	174.8	174.8	177.3	178.6	178.6	178.6
62.5°	150.0	152.5	155.0	157.5	158.7	160.0	161.2	162.4	162.4	162.4
65°	135.2	137.6	140.1	141.4	142.6	142.6	143.8	145.1	146.3	146.3
67.5°	119.0	121.5	124.0	125.2	126.5	126.5	127.7	129.0	129.0	129.0
70°	102.9	104.2	106.6	107.9	109.1	109.1	111.6	111.6	111.6	111.6
72.5°	86.8	88.0	90.5	91.8	93.0	93.0	94.2	95.5	95.5	95.5
75°	71.9	73.2	74.4	76.9	76.9	76.9	78.1	79.4	79.4	79.4
77.5°	57.0	58.3	59.5	60.8	62.0	62.0	63.2	64.5	64.5	64.5
80°	43.4	44.6	45.9	47.1	47.1	48.4	48.4	49.6	49.6	49.6
82.5°	31.0	32.2	33.5	34.7	36.0	36.0	37.2	38.4	38.4	37.2
85°	21.1	23.6	24.8	26.0	26.0	26.0	27.3	28.5	28.5	27.3
87.5°	14.9	14.9	16.1	17.4	17.4	18.6	18.6	19.8	19.8	19.8
90°	8.7	8.7	9.9	9.9	11.2	11.2	11.2	12.4	12.4	12.4
92.5°	21.1	21.1	22.3	22.3	22.3	22.3	23.6	23.6	23.6	23.6
95°	225.7	101.7	85.6	52.1	49.6	43.4	42.2	43.4	43.4	42.2
97.5°	757.6	811.0	844.4	860.6	840.7	819.6	796.1	792.4	760.1	688.2
100°	817.2	859.3	900.2	928.8	939.9	949.8	972.2	985.8	992.0	998.2
102.5°	846.9	891.6	927.5	963.5	978.4	992.0	1011.9	1028.0	1034.2	1039.1
105°	873.0	918.8	958.5	990.8	1004.4	1016.8	1036.7	1051.5	1062.7	1063.9
107.5°	879.2	927.5	972.2	1011.9	1028.0	1041.6	1065.2	1076.3	1086.3	1086.3
110°	890.3	936.2	977.1	1013.1	1029.2	1045.3	1070.1	1087.5	1097.4	1099.9





TEST NUMBER: P395727

CATALOG NUMBER: I3-UL-50L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	899.0	946.1	984.6	1020.5	1034.2	1049.1	1072.6	1088.7	1097.4	1101.1
115°	906.4	952.3	990.8	1024.3	1039.1	1054.0	1077.6	1091.2	1101.1	1104.9
117.5°	911.4	956.0	994.5	1025.5	1041.6	1054.0	1076.3	1091.2	1101.1	1102.4
120°	912.6	957.3	994.5	1025.5	1039.1	1052.8	1075.1	1090.0	1099.9	1099.9
122.5°	912.6	956.0	993.3	1023.0	1035.4	1047.8	1068.9	1086.3	1094.9	1094.9
125°	907.7	951.1	987.1	1016.8	1029.2	1040.4	1062.7	1078.8	1087.5	1088.7
127.5°	900.2	942.4	978.4	1008.1	1020.5	1030.5	1054.0	1068.9	1077.6	1078.8
130°	890.3	932.5	967.2	995.7	1008.1	1019.3	1039.1	1055.3	1065.2	1067.7
132.5°	879.2	918.8	953.6	980.9	993.3	1003.2	1023.0	1039.1	1047.8	1051.5
135°	865.5	902.7	936.2	963.5	975.9	985.8	1004.4	1020.5	1029.2	1032.9
137.5°	848.2	884.1	916.4	943.6	954.8	964.7	983.3	998.2	1005.7	1010.6
140°	828.3	861.8	895.3	920.1	931.2	941.2	957.3	973.4	980.9	984.6
142.5°	807.2	840.7	870.5	895.3	905.2	915.1	931.2	946.1	953.6	954.8
145°	784.9	817.2	844.4	868.0	876.7	886.6	901.5	916.4	923.8	925.0
147.5°	760.1	789.9	815.9	838.2	848.2	855.6	869.2	882.9	890.3	891.6
150°	731.6	758.9	782.4	804.8	813.4	820.9	835.8	848.2	855.6	856.8
152.5°	704.3	730.4	750.2	770.0	778.7	786.2	798.6	811.0	818.4	819.6
155°	675.8	699.4	719.2	735.3	742.8	750.2	760.1	771.3	777.5	778.7
157.5°	646.0	668.4	685.7	700.6	708.0	714.2	722.9	732.8	736.6	739.0
160°	613.8	632.4	647.3	662.2	668.4	674.6	683.2	690.7	695.6	696.9
162.5°	579.1	595.2	607.6	621.2	625.0	629.9	638.6	646.0	649.8	651.0
165°	543.1	558.0	569.2	580.3	582.8	586.5	592.7	600.2	602.6	605.1
167.5°	507.2	519.6	527.0	536.9	540.6	543.1	549.3	554.3	556.8	558.0
170°	472.4	481.1	487.3	494.8	496.0	499.7	503.4	508.4	509.6	509.6
172.5°	445.2	448.9	452.6	455.1	456.3	457.6	460.0	461.3	461.3	461.3
175°	427.8	430.3	430.3	431.5	431.5	431.5	431.5	431.5	431.5	431.5
177.5°	417.9	417.9	417.9	416.6	416.6	416.6	416.6	415.4	415.4	415.4
180°	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4	415.4

(END OF REPORT)