

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: P395648

Luminaire Tested: **I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395648
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-20L82765-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, OPEN TOP
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 141.3 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

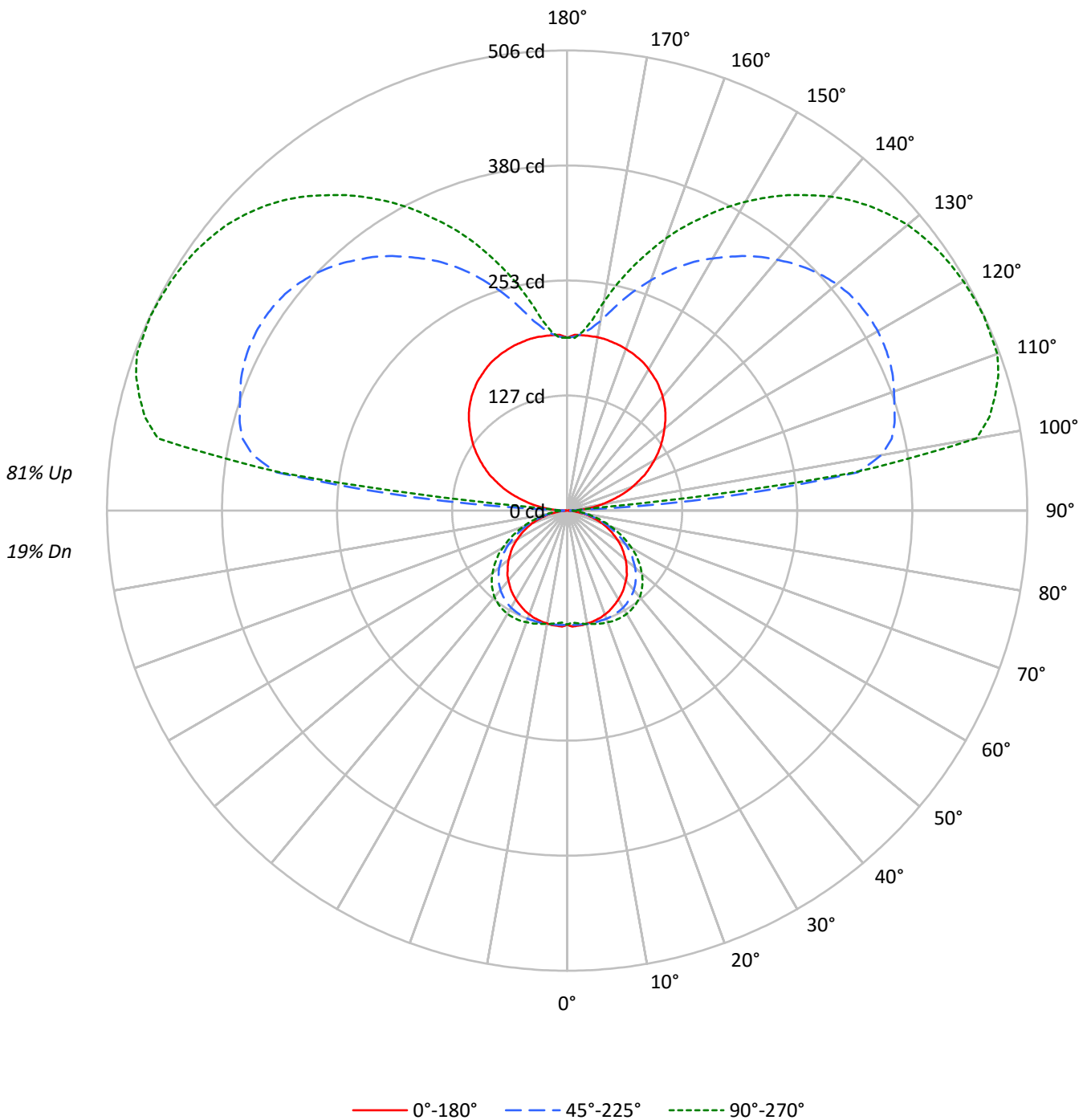
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395648

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

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°	689	689	689
5°	699	679	666
10°	698	675	667
15°	699	673	673
20°	700	675	681
25°	699	677	691
30°	699	678	698
35°	699	674	701
40°	696	669	697
45°	690	655	682
50°	684	634	657
55°	672	603	619
60°	651	560	569
65°	622	499	508
70°	588	432	429
75°	509	339	344
80°	405	244	249
85°	242	142	164



TEST NUMBER: P395648

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.5
10°-20°	35.8	1.6
20°-30°	57.6	2.5
30°-40°	74.1	3.2
40°-50°	81.4	3.5
50°-60°	76.5	3.3
60°-70°	59.4	2.6
70°-80°	34.1	1.5
80°-90°	10.9	0.5
90°-100°	147.2	6.4
100°-110°	349.8	15.2
110°-120°	351.4	15.3
120°-130°	322.3	14.0
130°-140°	269.5	11.7
140°-150°	202.3	8.8
150°-160°	131.7	5.7
160°-170°	67.8	2.9
170°-180°	19.2	0.8
0°-30°	105.4	4.6
0°-40°	179.5	7.8
0°-60°	337.3	14.6
0°-90°	441.8	19.2
90°-120°	848.5	36.8
90°-150°	1642.6	71.3
90°-180°	1861.0	80.8
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	125	125	125	125	125	
5°	127	126	126	125	124	12
15°	124	124	127	128	129	35
25°	118	119	125	130	132	54
35°	107	110	119	127	129	67
45°	92	97	107	115	117	72
55°	74	78	87	93	95	66
65°	52	55	60	65	67	52
75°	28	29	32	35	36	30
85°	6	7	9	12	12	7
90°	1	2	3	5	6	2
95°	20	165	169	23	19	20
105°	57	221	373	460	487	61
115°	95	249	391	476	506	93
125°	126	259	393	471	498	112
135°	153	258	376	447	473	118
145°	172	248	342	401	423	108
155°	185	227	297	340	356	85
165°	192	205	241	267	277	54
175°	194	193	195	198	198	18
180°	190	190	190	190	190	



TEST NUMBER: P395648

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4
2.5°	127.7	127.1	126.6	126.6	126.0	126.0	126.0	125.4	125.4	125.4	126.0
5°	127.1	127.1	126.6	126.0	126.0	126.0	125.4	125.4	125.4	125.4	126.0
7.5°	127.1	126.6	126.0	126.0	125.4	125.4	125.4	125.4	125.4	125.4	126.0
10°	126.0	126.0	125.4	125.4	124.9	125.4	125.4	125.4	125.4	125.4	126.6
12.5°	125.4	125.4	124.9	124.3	124.3	124.3	124.9	124.9	124.9	125.4	126.6
15°	124.3	124.3	123.7	123.7	123.7	123.7	124.3	124.3	124.9	125.4	126.6
17.5°	123.2	123.2	122.6	122.6	122.6	123.2	123.2	123.7	124.3	125.4	126.6
20°	121.5	121.5	121.5	121.5	121.5	122.0	122.0	122.6	123.7	124.9	126.6
22.5°	119.8	119.8	119.8	119.8	119.8	120.3	120.9	122.0	122.6	124.3	126.0
25°	117.5	117.5	117.5	117.5	118.1	118.6	119.2	120.3	121.5	123.2	125.4
27.5°	115.2	115.8	115.8	115.8	116.4	116.9	117.5	118.6	120.3	122.6	124.3
30°	112.9	112.9	112.9	113.5	114.1	114.7	115.8	116.9	118.6	120.9	123.2
32.5°	110.1	110.1	110.7	110.7	111.8	112.4	113.5	115.2	116.9	119.2	121.5
35°	107.3	107.3	107.3	108.4	109.0	110.1	110.7	112.4	114.7	116.9	119.2
37.5°	103.9	104.4	104.4	105.0	106.1	107.3	107.8	110.1	112.4	114.7	116.9
40°	100.5	101.0	101.0	101.6	103.3	103.9	105.0	107.3	109.0	111.8	114.1
42.5°	97.1	97.1	97.6	98.2	99.9	100.5	101.6	103.9	106.1	108.4	110.7
45°	92.5	93.1	93.6	94.2	95.9	97.1	98.2	99.9	102.2	104.4	106.7
47.5°	88.5	88.5	89.1	90.2	91.9	93.1	93.6	95.9	97.6	99.9	102.2
50°	84.0	84.6	84.6	85.7	87.4	88.5	89.1	91.4	93.1	95.4	97.6
52.5°	78.9	79.5	80.0	81.2	82.9	84.0	84.6	86.3	88.0	90.2	91.9
55°	74.4	74.9	74.9	76.1	77.8	78.3	79.5	80.6	82.9	84.6	86.8
57.5°	69.2	69.8	69.8	70.9	72.1	73.2	73.8	75.5	77.2	78.9	80.6
60°	63.6	64.1	64.7	65.3	66.4	67.5	68.1	69.2	70.9	72.6	74.4
62.5°	57.9	58.5	59.0	59.6	60.7	61.3	61.9	63.6	64.7	66.4	67.5
65°	52.2	52.8	53.4	53.9	54.5	55.1	55.6	56.8	57.9	59.6	60.2
67.5°	46.5	47.1	47.1	47.7	48.2	48.8	49.4	50.5	51.1	52.8	53.4
70°	40.9	40.9	40.9	41.4	41.4	42.0	42.6	43.7	44.3	45.4	46.5
72.5°	34.1	34.6	34.6	34.6	35.2	35.8	36.3	36.9	37.5	38.0	39.2
75°	27.8	28.4	27.8	28.4	28.9	28.9	29.5	30.1	30.6	31.2	31.8
77.5°	22.1	21.6	22.1	22.1	22.7	22.7	22.7	23.3	24.4	24.4	25.5
80°	15.9	15.9	15.9	15.9	16.5	16.5	17.0	17.0	18.2	18.7	19.3
82.5°	10.2	10.2	10.8	10.8	10.8	11.4	11.4	11.9	12.5	13.1	13.6
85°	5.7	5.7	5.7	6.2	6.2	6.8	6.8	7.4	7.9	8.5	9.1
87.5°	1.7	2.3	2.8	2.8	3.4	3.4	4.0	4.0	5.1	5.7	6.2
90°	0.6	0.6	1.1	1.1	1.1	1.7	1.7	2.3	2.3	2.8	3.4
92.5°	9.6	22.7	47.1	70.4	60.7	56.8	34.1	10.2	9.1	9.6	9.6
95°	19.9	37.5	68.7	111.2	144.2	164.6	178.2	204.3	231.0	226.5	169.1
97.5°	28.9	48.2	82.9	122.0	167.4	190.7	208.3	239.5	273.6	301.9	322.4
100°	38.0	57.9	94.8	135.7	177.7	198.7	219.1	261.7	295.1	323.5	350.8
102.5°	47.7	67.5	105.6	148.1	189.6	210.0	229.9	267.3	304.8	338.8	365.5
105°	57.3	77.8	115.2	158.9	200.4	220.8	240.1	275.8	310.5	342.2	372.9
107.5°	67.5	86.8	123.7	167.4	208.9	229.3	248.6	284.4	317.8	349.6	377.4
110°	76.6	95.4	132.2	175.4	216.8	237.2	256.5	292.3	325.2	355.3	382.5



TEST NUMBER: P395648

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	85.1	103.3	140.2	182.2	223.1	243.5	262.2	298.0	330.9	360.4	387.7
115°	94.8	110.7	148.1	188.4	228.7	248.6	267.3	302.5	335.4	364.4	391.1
117.5°	102.7	118.1	154.9	193.5	233.3	252.6	270.7	305.9	338.3	367.2	393.3
120°	110.7	124.9	161.2	198.1	236.7	255.4	273.6	308.2	340.5	368.9	394.5
122.5°	118.6	131.7	166.3	202.6	239.5	258.2	275.8	309.9	341.7	369.5	394.5
125°	126.0	137.4	170.8	206.0	241.2	259.4	276.4	309.9	341.1	368.4	393.3
127.5°	132.8	143.6	174.2	209.4	242.4	259.9	276.4	308.8	340.0	366.7	391.1
130°	139.6	149.3	177.7	211.1	243.5	259.4	275.3	306.5	337.1	363.8	387.1
132.5°	146.4	155.5	180.5	212.8	244.1	259.4	274.1	304.2	333.7	359.8	382.0
135°	152.7	160.1	183.3	214.0	243.5	258.2	271.9	300.2	328.6	354.2	375.7
137.5°	158.4	164.6	185.6	214.5	242.9	256.5	270.2	295.7	322.4	347.4	368.4
140°	163.5	169.1	186.7	214.5	240.7	254.3	266.8	291.2	315.6	339.4	359.8
142.5°	168.0	173.1	188.4	213.4	238.4	251.4	263.4	286.6	308.8	331.5	351.3
145°	172.5	176.5	189.6	212.8	235.5	247.5	258.8	280.9	302.5	323.0	341.7
147.5°	175.9	179.9	190.7	210.6	232.1	242.9	253.7	274.7	294.6	313.9	330.9
150°	179.4	182.8	191.3	208.3	228.2	237.8	247.5	267.3	286.6	304.2	320.1
152.5°	182.8	185.0	193.0	206.0	223.6	232.7	242.4	259.9	277.5	294.0	309.3
155°	185.0	186.7	193.5	203.8	219.1	227.0	235.0	251.4	267.3	282.7	296.8
157.5°	187.3	189.0	194.1	202.1	214.0	221.4	228.2	242.4	257.1	270.7	283.8
160°	189.0	190.1	194.1	200.9	209.4	214.5	220.8	233.8	246.3	258.2	269.6
162.5°	190.7	191.3	194.1	199.2	205.5	208.9	213.4	223.6	235.0	245.2	255.4
165°	191.8	192.4	194.1	198.1	202.1	204.9	207.2	214.5	223.1	232.1	240.7
167.5°	193.0	193.0	194.1	196.9	199.2	200.9	202.6	206.6	212.3	219.1	225.3
170°	193.5	193.5	194.1	195.8	197.5	198.1	199.2	201.5	204.3	207.7	211.7
172.5°	193.5	193.5	193.5	194.7	195.2	195.2	195.2	196.4	198.1	200.4	202.1
175°	193.5	193.0	193.0	193.5	193.0	193.0	193.0	193.0	193.5	194.7	195.2
177.5°	193.5	193.0	192.4	192.4	191.8	191.8	191.3	191.3	191.3	191.3	191.3
180°	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1



TEST NUMBER: P395648

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4
2.5°	126.0	126.0	125.4	124.9	124.9	124.9	124.3	123.7	123.2	123.2
5°	126.0	126.0	125.4	125.4	125.4	125.4	124.9	124.9	124.3	124.3
7.5°	126.6	126.0	126.0	126.0	126.0	126.0	126.0	126.0	125.4	125.4
10°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6
12.5°	127.1	127.1	127.1	127.1	127.7	127.7	127.7	127.7	127.7	127.7
15°	127.1	127.7	128.3	128.3	128.3	128.8	128.8	128.8	128.8	128.8
17.5°	127.7	128.3	128.8	128.8	129.4	129.4	130.0	130.0	130.0	130.0
20°	127.7	128.3	128.8	129.4	130.0	130.0	130.5	131.1	131.1	130.5
22.5°	127.1	128.3	128.8	129.4	130.0	130.5	131.1	131.7	131.7	131.7
25°	126.6	127.7	128.8	130.0	130.0	130.5	131.7	131.7	131.7	131.7
27.5°	126.0	127.1	128.3	129.4	130.0	130.5	131.1	131.7	131.7	131.7
30°	124.9	126.6	127.7	128.8	129.4	130.0	130.5	131.1	131.1	131.1
32.5°	123.2	124.9	126.0	127.7	128.3	128.8	129.4	130.0	130.0	130.0
35°	121.5	123.2	124.3	126.0	126.6	127.1	128.3	128.3	128.8	128.8
37.5°	118.6	120.9	122.0	123.7	124.3	124.9	126.0	126.6	126.6	126.6
40°	115.8	118.1	119.2	120.9	121.5	122.0	123.2	123.7	124.3	124.3
42.5°	112.4	114.7	115.8	117.5	118.1	118.6	119.8	120.3	120.9	120.9
45°	109.0	110.7	111.8	113.5	114.7	114.7	115.8	116.4	116.9	116.9
47.5°	104.4	106.1	107.3	109.0	110.1	110.7	111.2	111.8	112.4	112.4
50°	99.3	101.0	102.7	103.9	105.0	105.0	106.1	106.7	107.3	107.3
52.5°	94.2	95.4	97.1	98.8	99.3	99.9	100.5	101.0	101.6	101.6
55°	88.5	89.7	91.4	92.5	93.1	93.6	94.2	94.8	95.4	95.4
57.5°	82.3	83.4	85.1	86.3	86.8	87.4	88.0	88.5	89.1	89.1
60°	75.5	76.6	78.3	79.5	80.0	80.0	81.2	81.7	81.7	81.7
62.5°	68.7	69.8	70.9	72.1	72.6	73.2	73.8	74.4	74.4	74.4
65°	61.9	63.0	64.1	64.7	65.3	65.3	65.8	66.4	67.0	67.0
67.5°	54.5	55.6	56.8	57.3	57.9	57.9	58.5	59.0	59.0	59.0
70°	47.1	47.7	48.8	49.4	49.9	49.9	51.1	51.1	51.1	51.1
72.5°	39.7	40.3	41.4	42.0	42.6	42.6	43.1	43.7	43.7	43.7
75°	32.9	33.5	34.1	35.2	35.2	35.2	35.8	36.3	36.3	36.3
77.5°	26.1	26.7	27.2	27.8	28.4	28.4	28.9	29.5	29.5	29.5
80°	19.9	20.4	21.0	21.6	21.6	22.1	22.1	22.7	22.7	22.7
82.5°	14.2	14.8	15.3	15.9	16.5	16.5	17.0	17.6	17.6	17.0
85°	9.6	10.8	11.4	11.9	11.9	11.9	12.5	13.1	13.1	12.5
87.5°	6.8	6.8	7.4	7.9	7.9	8.5	8.5	9.1	9.1	9.1
90°	4.0	4.0	4.5	4.5	5.1	5.1	5.1	5.7	5.7	5.7
92.5°	9.6	9.6	10.2	10.2	10.2	10.2	10.8	10.8	10.8	10.8
95°	103.3	46.5	39.2	23.8	22.7	19.9	19.3	19.9	19.9	19.3
97.5°	346.8	371.2	386.5	393.9	384.8	375.2	364.4	362.7	347.9	315.0
100°	374.0	393.3	412.1	425.1	430.2	434.8	445.0	451.2	454.1	456.9
102.5°	387.7	408.1	424.5	441.0	447.8	454.1	463.1	470.5	473.4	475.6
105°	399.6	420.6	438.7	453.5	459.7	465.4	474.5	481.3	486.4	487.0
107.5°	402.4	424.5	445.0	463.1	470.5	476.8	487.5	492.7	497.2	497.2
110°	407.5	428.5	447.2	463.7	471.1	478.5	489.8	497.8	502.3	503.4



TEST NUMBER: P395648

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	411.5	433.1	450.7	467.1	473.4	480.2	491.0	498.3	502.3	504.0
115°	414.9	435.9	453.5	468.8	475.6	482.4	493.2	499.5	504.0	505.7
117.5°	417.2	437.6	455.2	469.4	476.8	482.4	492.7	499.5	504.0	504.6
120°	417.7	438.2	455.2	469.4	475.6	481.9	492.1	498.9	503.4	503.4
122.5°	417.7	437.6	454.6	468.2	473.9	479.6	489.2	497.2	501.2	501.2
125°	415.5	435.3	451.8	465.4	471.1	476.2	486.4	493.8	497.8	498.3
127.5°	412.1	431.4	447.8	461.4	467.1	471.7	482.4	489.2	493.2	493.8
130°	407.5	426.8	442.7	455.8	461.4	466.5	475.6	483.0	487.5	488.7
132.5°	402.4	420.6	436.5	449.0	454.6	459.2	468.2	475.6	479.6	481.3
135°	396.2	413.2	428.5	441.0	446.7	451.2	459.7	467.1	471.1	472.8
137.5°	388.2	404.7	419.4	431.9	437.0	441.6	450.1	456.9	460.3	462.6
140°	379.1	394.5	409.8	421.1	426.2	430.8	438.2	445.5	449.0	450.7
142.5°	369.5	384.8	398.4	409.8	414.3	418.9	426.2	433.1	436.5	437.0
145°	359.3	374.0	386.5	397.3	401.3	405.8	412.6	419.4	422.8	423.4
147.5°	347.9	361.5	373.5	383.7	388.2	391.6	397.9	404.1	407.5	408.1
150°	334.9	347.4	358.1	368.4	372.3	375.7	382.5	388.2	391.6	392.2
152.5°	322.4	334.3	343.4	352.5	356.4	359.8	365.5	371.2	374.6	375.2
155°	309.3	320.1	329.2	336.6	340.0	343.4	347.9	353.0	355.9	356.4
157.5°	295.7	305.9	313.9	320.7	324.1	326.9	330.9	335.4	337.1	338.3
160°	280.9	289.5	296.3	303.1	305.9	308.8	312.7	316.1	318.4	319.0
162.5°	265.1	272.4	278.1	284.4	286.1	288.3	292.3	295.7	297.4	298.0
165°	248.6	255.4	260.5	265.6	266.8	268.5	271.3	274.7	275.8	277.0
167.5°	232.1	237.8	241.2	245.8	247.5	248.6	251.4	253.7	254.8	255.4
170°	216.2	220.2	223.1	226.5	227.0	228.7	230.4	232.7	233.3	233.3
172.5°	203.8	205.5	207.2	208.3	208.9	209.4	210.6	211.1	211.1	211.1
175°	195.8	196.9	196.9	197.5	197.5	197.5	197.5	197.5	197.5	197.5
177.5°	191.3	191.3	191.3	190.7	190.7	190.7	190.7	190.1	190.1	190.1
180°	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1

(END OF REPORT)