

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: P395668

Luminaire Tested: **I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395668
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-20L93050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, OPEN TOP
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2003.7 lumens
Efficiency: N/A
Efficacy: 121.4 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

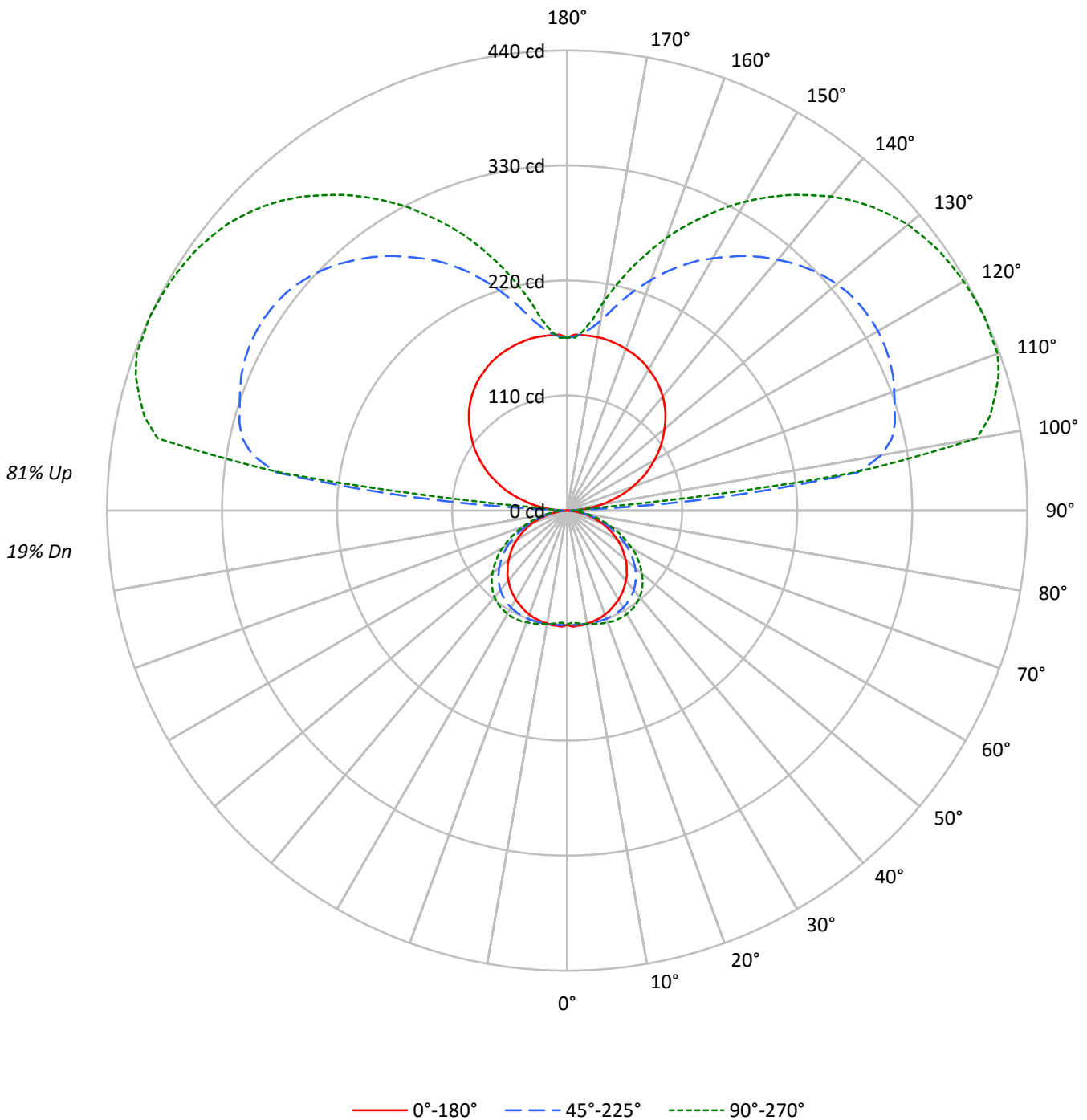
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-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	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°	600	600	600
5°	608	591	580
10°	607	587	580
15°	608	585	586
20°	609	587	593
25°	608	589	602
30°	609	590	607
35°	608	587	610
40°	605	583	606
45°	600	570	593
50°	595	551	571
55°	584	525	539
60°	566	487	496
65°	541	433	442
70°	512	376	372
75°	443	295	299
80°	352	212	217
85°	208	123	143



TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.5
10°-20°	31.1	1.6
20°-30°	50.1	2.5
30°-40°	64.5	3.2
40°-50°	70.8	3.5
50°-60°	66.5	3.3
60°-70°	51.7	2.6
70°-80°	29.7	1.5
80°-90°	9.5	0.5
90°-100°	128.1	6.4
100°-110°	304.4	15.2
110°-120°	305.8	15.3
120°-130°	280.4	14.0
130°-140°	234.5	11.7
140°-150°	176.0	8.8
150°-160°	114.6	5.7
160°-170°	59.0	2.9
170°-180°	16.7	0.8
0°-30°	91.7	4.6
0°-40°	156.1	7.8
0°-60°	293.5	14.6
0°-90°	384.4	19.2
90°-120°	738.2	36.8
90°-150°	1429.1	71.3
90°-180°	1619.0	80.8
0°-180°	2003.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	109	109	109	109	109	
5°	111	110	110	109	108	11
15°	108	108	110	112	112	31
25°	102	103	109	113	115	47
35°	93	96	104	110	112	58
45°	80	84	93	100	102	62
55°	65	68	76	81	83	58
65°	45	48	52	57	58	45
75°	24	25	28	31	32	26
85°	5	6	8	10	11	6
90°	0	2	3	4	5	1
95°	17	143	147	20	17	17
105°	50	192	324	400	424	53
115°	82	216	340	414	440	81
125°	110	226	342	410	434	98
135°	133	225	327	389	411	102
145°	150	215	297	349	368	94
155°	161	198	258	296	310	74
165°	167	178	209	232	241	47
175°	168	168	170	172	172	16
180°	165	165	165	165	165	



TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1
2.5°	111.1	110.6	110.1	110.1	109.6	109.6	109.6	109.1	109.1	109.1	109.6
5°	110.6	110.6	110.1	109.6	109.6	109.6	109.1	109.1	109.1	109.1	109.6
7.5°	110.6	110.1	109.6	109.6	109.1	109.1	109.1	109.1	109.1	109.1	109.6
10°	109.6	109.6	109.1	109.1	108.6	109.1	109.1	109.1	109.1	109.1	110.1
12.5°	109.1	109.1	108.6	108.1	108.1	108.1	108.6	108.6	108.6	109.1	110.1
15°	108.1	108.1	107.6	107.6	107.6	107.6	108.1	108.1	108.6	109.1	110.1
17.5°	107.2	107.2	106.7	106.7	106.7	107.2	107.2	107.6	108.1	109.1	110.1
20°	105.7	105.7	105.7	105.7	105.7	106.2	106.2	106.7	107.6	108.6	110.1
22.5°	104.2	104.2	104.2	104.2	104.2	104.7	105.2	106.2	106.7	108.1	109.6
25°	102.2	102.2	102.2	102.2	102.7	103.2	103.7	104.7	105.7	107.2	109.1
27.5°	100.2	100.7	100.7	100.7	101.2	101.7	102.2	103.2	104.7	106.7	108.1
30°	98.3	98.3	98.3	98.8	99.3	99.7	100.7	101.7	103.2	105.2	107.2
32.5°	95.8	95.8	96.3	96.3	97.3	97.8	98.8	100.2	101.7	103.7	105.7
35°	93.3	93.3	93.3	94.3	94.8	95.8	96.3	97.8	99.7	101.7	103.7
37.5°	90.4	90.9	90.9	91.4	92.3	93.3	93.8	95.8	97.8	99.7	101.7
40°	87.4	87.9	87.9	88.4	89.9	90.4	91.4	93.3	94.8	97.3	99.3
42.5°	84.4	84.4	84.9	85.4	86.9	87.4	88.4	90.4	92.3	94.3	96.3
45°	80.5	81.0	81.5	82.0	83.5	84.4	85.4	86.9	88.9	90.9	92.8
47.5°	77.0	77.0	77.5	78.5	80.0	81.0	81.5	83.5	84.9	86.9	88.9
50°	73.1	73.6	73.6	74.6	76.0	77.0	77.5	79.5	81.0	83.0	84.9
52.5°	68.6	69.1	69.6	70.6	72.1	73.1	73.6	75.1	76.5	78.5	80.0
55°	64.7	65.2	65.2	66.2	67.7	68.1	69.1	70.1	72.1	73.6	75.6
57.5°	60.2	60.7	60.7	61.7	62.7	63.7	64.2	65.7	67.2	68.6	70.1
60°	55.3	55.8	56.3	56.8	57.8	58.8	59.3	60.2	61.7	63.2	64.7
62.5°	50.4	50.9	51.4	51.8	52.8	53.3	53.8	55.3	56.3	57.8	58.8
65°	45.4	45.9	46.4	46.9	47.4	47.9	48.4	49.4	50.4	51.8	52.3
67.5°	40.5	41.0	41.0	41.5	42.0	42.5	43.0	43.9	44.4	45.9	46.4
70°	35.6	35.6	35.6	36.0	36.0	36.5	37.0	38.0	38.5	39.5	40.5
72.5°	29.6	30.1	30.1	30.1	30.6	31.1	31.6	32.1	32.6	33.1	34.1
75°	24.2	24.7	24.2	24.7	25.2	25.2	25.7	26.2	26.7	27.2	27.7
77.5°	19.3	18.8	19.3	19.3	19.8	19.8	19.8	20.2	21.2	21.2	22.2
80°	13.8	13.8	13.8	13.8	14.3	14.3	14.8	14.8	15.8	16.3	16.8
82.5°	8.9	8.9	9.4	9.4	9.4	9.9	9.9	10.4	10.9	11.4	11.9
85°	4.9	4.9	4.9	5.4	5.4	5.9	5.9	6.4	6.9	7.4	7.9
87.5°	1.5	2.0	2.5	2.5	3.0	3.0	3.5	3.5	4.4	4.9	5.4
90°	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.5	3.0
92.5°	8.4	19.8	41.0	61.2	52.8	49.4	29.6	8.9	7.9	8.4	8.4
95°	17.3	32.6	59.7	96.8	125.4	143.2	155.1	177.8	201.0	197.0	147.2
97.5°	25.2	42.0	72.1	106.2	145.7	165.9	181.2	208.4	238.0	262.7	280.5
100°	33.1	50.4	82.5	118.0	154.6	172.8	190.6	227.6	256.8	281.5	305.2
102.5°	41.5	58.8	91.8	128.9	164.9	182.7	200.0	232.6	265.2	294.8	318.0
105°	49.9	67.7	100.2	138.3	174.3	192.1	208.9	240.0	270.1	297.8	324.4
107.5°	58.8	75.6	107.6	145.7	181.7	199.5	216.3	247.4	276.5	304.2	328.4
110°	66.7	83.0	115.1	152.6	188.6	206.4	223.2	254.3	282.9	309.1	332.8



TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	74.1	89.9	122.0	158.5	194.1	211.8	228.1	259.2	287.9	313.6	337.3
115°	82.5	96.3	128.9	163.9	199.0	216.3	232.6	263.2	291.8	317.0	340.2
117.5°	89.4	102.7	134.8	168.4	203.0	219.7	235.5	266.2	294.3	319.5	342.2
120°	96.3	108.6	140.2	172.3	205.9	222.2	238.0	268.1	296.3	321.0	343.2
122.5°	103.2	114.6	144.7	176.3	208.4	224.7	240.0	269.6	297.3	321.5	343.2
125°	109.6	119.5	148.6	179.2	209.9	225.7	240.5	269.6	296.8	320.5	342.2
127.5°	115.5	124.9	151.6	182.2	210.9	226.2	240.5	268.6	295.8	319.0	340.2
130°	121.5	129.9	154.6	183.7	211.8	225.7	239.5	266.6	293.3	316.5	336.8
132.5°	127.4	135.3	157.0	185.2	212.3	225.7	238.5	264.7	290.4	313.1	332.3
135°	132.8	139.3	159.5	186.2	211.8	224.7	236.5	261.2	285.9	308.1	326.9
137.5°	137.8	143.2	161.5	186.7	211.3	223.2	235.0	257.3	280.5	302.2	320.5
140°	142.2	147.2	162.5	186.7	209.4	221.2	232.1	253.3	274.6	295.3	313.1
142.5°	146.2	150.6	163.9	185.7	207.4	218.8	229.1	249.4	268.6	288.4	305.7
145°	150.1	153.6	164.9	185.2	204.9	215.3	225.2	244.4	263.2	281.0	297.3
147.5°	153.1	156.5	165.9	183.2	202.0	211.3	220.7	239.0	256.3	273.1	287.9
150°	156.0	159.0	166.4	181.2	198.5	206.9	215.3	232.6	249.4	264.7	278.5
152.5°	159.0	161.0	167.9	179.2	194.6	202.5	210.9	226.2	241.5	255.8	269.1
155°	161.0	162.5	168.4	177.3	190.6	197.5	204.4	218.8	232.6	245.9	258.3
157.5°	163.0	164.4	168.9	175.8	186.2	192.6	198.5	210.9	223.7	235.5	246.9
160°	164.4	165.4	168.9	174.8	182.2	186.7	192.1	203.4	214.3	224.7	234.6
162.5°	165.9	166.4	168.9	173.3	178.8	181.7	185.7	194.6	204.4	213.3	222.2
165°	166.9	167.4	168.9	172.3	175.8	178.3	180.2	186.7	194.1	202.0	209.4
167.5°	167.9	167.9	168.9	171.3	173.3	174.8	176.3	179.7	184.7	190.6	196.0
170°	168.4	168.4	168.9	170.4	171.8	172.3	173.3	175.3	177.8	180.7	184.2
172.5°	168.4	168.4	168.4	169.4	169.9	169.9	169.9	170.9	172.3	174.3	175.8
175°	168.4	167.9	167.9	168.4	167.9	167.9	167.9	167.9	168.4	169.4	169.9
177.5°	168.4	167.9	167.4	167.4	166.9	166.9	166.4	166.4	166.4	166.4	166.4
180°	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4



TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1
2.5°	109.6	109.6	109.1	108.6	108.6	108.6	108.1	107.6	107.2	107.2
5°	109.6	109.6	109.1	109.1	109.1	109.1	108.6	108.6	108.1	108.1
7.5°	110.1	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.1	109.1
10°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
12.5°	110.6	110.6	110.6	110.6	111.1	111.1	111.1	111.1	111.1	111.1
15°	110.6	111.1	111.6	111.6	111.6	112.1	112.1	112.1	112.1	112.1
17.5°	111.1	111.6	112.1	112.1	112.6	112.6	113.1	113.1	113.1	113.1
20°	111.1	111.6	112.1	112.6	113.1	113.1	113.6	114.1	114.1	113.6
22.5°	110.6	111.6	112.1	112.6	113.1	113.6	114.1	114.6	114.6	114.6
25°	110.1	111.1	112.1	113.1	113.1	113.6	114.6	114.6	114.6	114.6
27.5°	109.6	110.6	111.6	112.6	113.1	113.6	114.1	114.6	114.6	114.6
30°	108.6	110.1	111.1	112.1	112.6	113.1	113.6	114.1	114.1	114.1
32.5°	107.2	108.6	109.6	111.1	111.6	112.1	112.6	113.1	113.1	113.1
35°	105.7	107.2	108.1	109.6	110.1	110.6	111.6	111.6	112.1	112.1
37.5°	103.2	105.2	106.2	107.6	108.1	108.6	109.6	110.1	110.1	110.1
40°	100.7	102.7	103.7	105.2	105.7	106.2	107.2	107.6	108.1	108.1
42.5°	97.8	99.7	100.7	102.2	102.7	103.2	104.2	104.7	105.2	105.2
45°	94.8	96.3	97.3	98.8	99.7	99.7	100.7	101.2	101.7	101.7
47.5°	90.9	92.3	93.3	94.8	95.8	96.3	96.8	97.3	97.8	97.8
50°	86.4	87.9	89.4	90.4	91.4	91.4	92.3	92.8	93.3	93.3
52.5°	82.0	83.0	84.4	85.9	86.4	86.9	87.4	87.9	88.4	88.4
55°	77.0	78.0	79.5	80.5	81.0	81.5	82.0	82.5	83.0	83.0
57.5°	71.6	72.6	74.1	75.1	75.6	76.0	76.5	77.0	77.5	77.5
60°	65.7	66.7	68.1	69.1	69.6	69.6	70.6	71.1	71.1	71.1
62.5°	59.7	60.7	61.7	62.7	63.2	63.7	64.2	64.7	64.7	64.7
65°	53.8	54.8	55.8	56.3	56.8	56.8	57.3	57.8	58.3	58.3
67.5°	47.4	48.4	49.4	49.9	50.4	50.4	50.9	51.4	51.4	51.4
70°	41.0	41.5	42.5	43.0	43.5	43.5	44.4	44.4	44.4	44.4
72.5°	34.6	35.1	36.0	36.5	37.0	37.0	37.5	38.0	38.0	38.0
75°	28.6	29.1	29.6	30.6	30.6	30.6	31.1	31.6	31.6	31.6
77.5°	22.7	23.2	23.7	24.2	24.7	24.7	25.2	25.7	25.7	25.7
80°	17.3	17.8	18.3	18.8	18.8	19.3	19.3	19.8	19.8	19.8
82.5°	12.3	12.8	13.3	13.8	14.3	14.3	14.8	15.3	15.3	14.8
85°	8.4	9.4	9.9	10.4	10.4	10.4	10.9	11.4	11.4	10.9
87.5°	5.9	5.9	6.4	6.9	6.9	7.4	7.4	7.9	7.9	7.9
90°	3.5	3.5	4.0	4.0	4.4	4.4	4.4	4.9	4.9	4.9
92.5°	8.4	8.4	8.9	8.9	8.9	8.9	9.4	9.4	9.4	9.4
95°	89.9	40.5	34.1	20.7	19.8	17.3	16.8	17.3	17.3	16.8
97.5°	301.7	322.9	336.3	342.7	334.8	326.4	317.0	315.5	302.7	274.1
100°	325.4	342.2	358.5	369.9	374.3	378.2	387.1	392.6	395.0	397.5
102.5°	337.3	355.0	369.4	383.7	389.6	395.0	402.9	409.4	411.8	413.8
105°	347.6	365.9	381.7	394.5	400.0	404.9	412.8	418.7	423.2	423.7
107.5°	350.1	369.4	387.1	402.9	409.4	414.8	424.2	428.6	432.6	432.6
110°	354.5	372.8	389.1	403.4	409.9	416.3	426.1	433.1	437.0	438.0



TEST NUMBER: P395668

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	358.0	376.8	392.1	406.4	411.8	417.8	427.1	433.6	437.0	438.5
115°	361.0	379.2	394.5	407.9	413.8	419.7	429.1	434.5	438.5	440.0
117.5°	362.9	380.7	396.0	408.4	414.8	419.7	428.6	434.5	438.5	439.0
120°	363.4	381.2	396.0	408.4	413.8	419.2	428.1	434.0	438.0	438.0
122.5°	363.4	380.7	395.5	407.4	412.3	417.3	425.7	432.6	436.0	436.0
125°	361.5	378.7	393.1	404.9	409.9	414.3	423.2	429.6	433.1	433.6
127.5°	358.5	375.3	389.6	401.5	406.4	410.3	419.7	425.7	429.1	429.6
130°	354.5	371.3	385.2	396.5	401.5	405.9	413.8	420.2	424.2	425.2
132.5°	350.1	365.9	379.7	390.6	395.5	399.5	407.4	413.8	417.3	418.7
135°	344.7	359.5	372.8	383.7	388.6	392.6	400.0	406.4	409.9	411.3
137.5°	337.8	352.1	364.9	375.8	380.2	384.2	391.6	397.5	400.5	402.4
140°	329.9	343.2	356.5	366.4	370.8	374.8	381.2	387.6	390.6	392.1
142.5°	321.5	334.8	346.6	356.5	360.5	364.4	370.8	376.8	379.7	380.2
145°	312.6	325.4	336.3	345.7	349.1	353.1	359.0	364.9	367.9	368.4
147.5°	302.7	314.5	324.9	333.8	337.8	340.7	346.2	351.6	354.5	355.0
150°	291.3	302.2	311.6	320.5	323.9	326.9	332.8	337.8	340.7	341.2
152.5°	280.5	290.8	298.7	306.6	310.1	313.1	318.0	322.9	325.9	326.4
155°	269.1	278.5	286.4	292.8	295.8	298.7	302.7	307.1	309.6	310.1
157.5°	257.3	266.2	273.1	279.0	282.0	284.4	287.9	291.8	293.3	294.3
160°	244.4	251.8	257.8	263.7	266.2	268.6	272.1	275.0	277.0	277.5
162.5°	230.6	237.0	242.0	247.4	248.9	250.8	254.3	257.3	258.7	259.2
165°	216.3	222.2	226.7	231.1	232.1	233.6	236.0	239.0	240.0	241.0
167.5°	202.0	206.9	209.9	213.8	215.3	216.3	218.8	220.7	221.7	222.2
170°	188.1	191.6	194.1	197.0	197.5	199.0	200.5	202.5	203.0	203.0
172.5°	177.3	178.8	180.2	181.2	181.7	182.2	183.2	183.7	183.7	183.7
175°	170.4	171.3	171.3	171.8	171.8	171.8	171.8	171.8	171.8	171.8
177.5°	166.4	166.4	166.4	165.9	165.9	165.9	165.9	165.4	165.4	165.4
180°	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4

(END OF REPORT)