

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: P395650

Luminaire Tested: **I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395650
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 (4500K)
Description: CORELITE I3, OPEN TOP
2000 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: 2395.0 lumens
Efficiency: N/A
Efficacy: 145.1 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

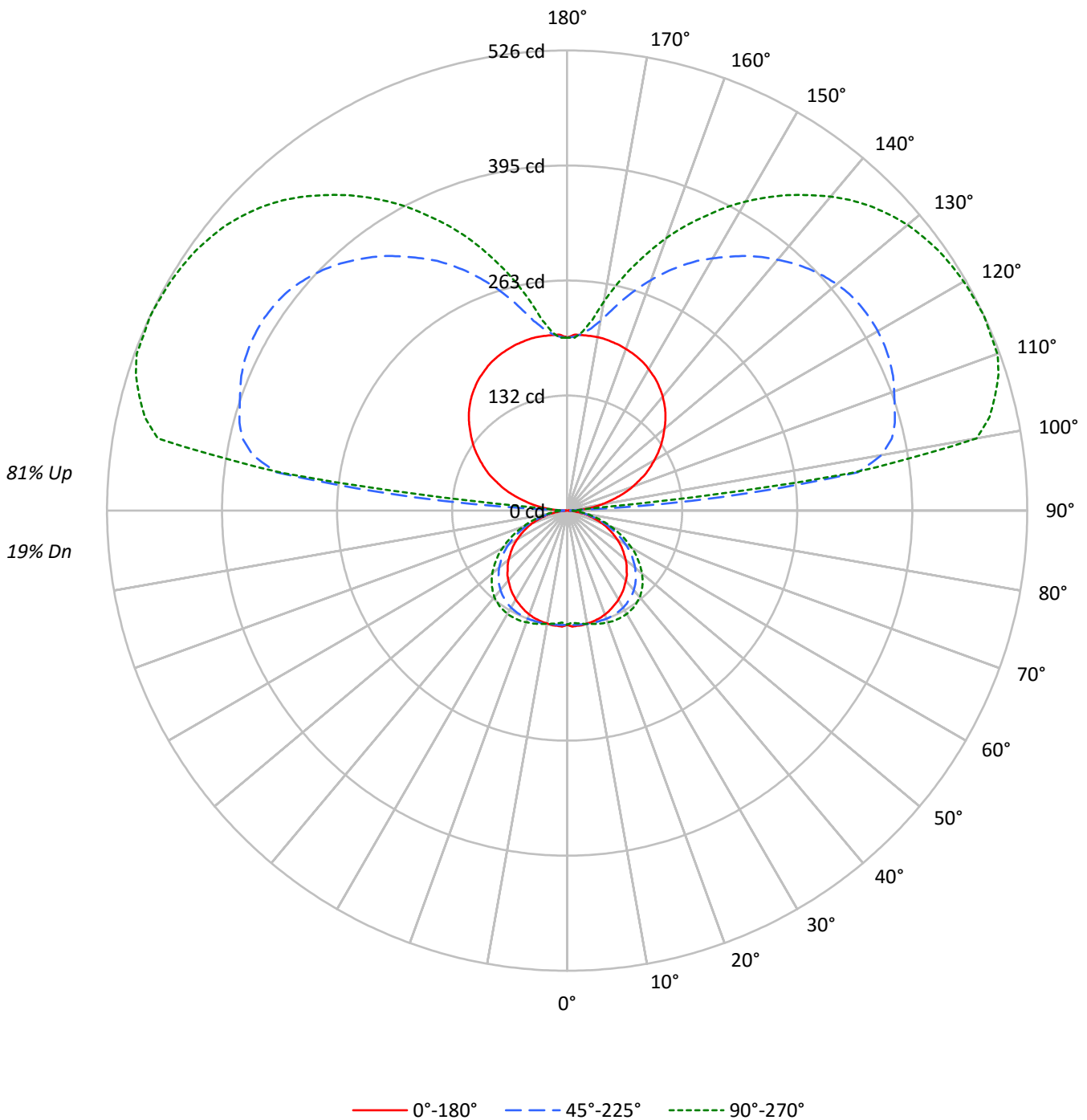
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-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	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°	717	717	717
5°	727	706	693
10°	726	702	694
15°	727	699	700
20°	727	702	708
25°	727	704	719
30°	728	705	725
35°	727	701	729
40°	724	696	725
45°	717	682	709
50°	711	659	683
55°	698	627	644
60°	677	582	592
65°	647	519	528
70°	612	450	445
75°	530	353	358
80°	421	254	258
85°	250	147	170



TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.5
10°-20°	37.2	1.6
20°-30°	59.9	2.5
30°-40°	77.1	3.2
40°-50°	84.6	3.5
50°-60°	79.5	3.3
60°-70°	61.8	2.6
70°-80°	35.4	1.5
80°-90°	11.4	0.5
90°-100°	153.1	6.4
100°-110°	363.8	15.2
110°-120°	365.5	15.3
120°-130°	335.2	14.0
130°-140°	280.3	11.7
140°-150°	210.3	8.8
150°-160°	136.9	5.7
160°-170°	70.5	2.9
170°-180°	20.0	0.8
0°-30°	109.6	4.6
0°-40°	186.6	7.8
0°-60°	350.8	14.6
0°-90°	459.4	19.2
90°-120°	882.4	36.8
90°-150°	1708.1	71.3
90°-180°	1936.0	80.8
0°-180°	2395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	130	130	130	130	130	
5°	132	131	131	130	129	13
15°	129	129	132	133	134	37
25°	122	123	130	135	137	56
35°	112	114	124	132	134	70
45°	96	101	111	119	122	74
55°	77	82	90	97	99	69
65°	54	57	63	68	70	54
75°	29	30	33	37	38	31
85°	6	7	9	12	13	7
90°	1	2	4	5	6	2
95°	21	171	176	24	20	21
105°	60	230	388	478	506	63
115°	99	258	407	495	526	97
125°	131	270	409	490	518	117
135°	159	269	391	464	492	122
145°	179	257	355	417	440	112
155°	192	236	309	354	371	89
165°	200	213	250	277	288	56
175°	201	201	203	205	205	19
180°	198	198	198	198	198	



TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4
2.5°	132.8	132.2	131.6	131.6	131.0	131.0	131.0	130.4	130.4	130.4	131.0
5°	132.2	132.2	131.6	131.0	131.0	131.0	130.4	130.4	130.4	130.4	131.0
7.5°	132.2	131.6	131.0	131.0	130.4	130.4	130.4	130.4	130.4	130.4	131.0
10°	131.0	131.0	130.4	130.4	129.9	130.4	130.4	130.4	130.4	130.4	131.6
12.5°	130.4	130.4	129.9	129.3	129.3	129.3	129.9	129.9	129.9	130.4	131.6
15°	129.3	129.3	128.7	128.7	128.7	128.7	129.3	129.3	129.9	130.4	131.6
17.5°	128.1	128.1	127.5	127.5	127.5	128.1	128.1	128.7	129.3	130.4	131.6
20°	126.3	126.3	126.3	126.3	126.3	126.9	126.9	127.5	128.7	129.9	131.6
22.5°	124.5	124.5	124.5	124.5	124.5	125.1	125.7	126.9	127.5	129.3	131.0
25°	122.2	122.2	122.2	122.2	122.8	123.4	123.9	125.1	126.3	128.1	130.4
27.5°	119.8	120.4	120.4	120.4	121.0	121.6	122.2	123.4	125.1	127.5	129.3
30°	117.5	117.5	117.5	118.0	118.6	119.2	120.4	121.6	123.4	125.7	128.1
32.5°	114.5	114.5	115.1	115.1	116.3	116.9	118.0	119.8	121.6	123.9	126.3
35°	111.6	111.6	111.6	112.7	113.3	114.5	115.1	116.9	119.2	121.6	123.9
37.5°	108.0	108.6	108.6	109.2	110.4	111.6	112.1	114.5	116.9	119.2	121.6
40°	104.5	105.1	105.1	105.7	107.4	108.0	109.2	111.6	113.3	116.3	118.6
42.5°	100.9	100.9	101.5	102.1	103.9	104.5	105.7	108.0	110.4	112.7	115.1
45°	96.2	96.8	97.4	98.0	99.7	100.9	102.1	103.9	106.2	108.6	111.0
47.5°	92.1	92.1	92.7	93.8	95.6	96.8	97.4	99.7	101.5	103.9	106.2
50°	87.4	87.9	87.9	89.1	90.9	92.1	92.7	95.0	96.8	99.2	101.5
52.5°	82.0	82.6	83.2	84.4	86.2	87.4	87.9	89.7	91.5	93.8	95.6
55°	77.3	77.9	77.9	79.1	80.9	81.5	82.6	83.8	86.2	87.9	90.3
57.5°	72.0	72.6	72.6	73.8	75.0	76.1	76.7	78.5	80.3	82.0	83.8
60°	66.1	66.7	67.3	67.9	69.1	70.2	70.8	72.0	73.8	75.5	77.3
62.5°	60.2	60.8	61.4	62.0	63.2	63.7	64.3	66.1	67.3	69.1	70.2
65°	54.3	54.9	55.5	56.1	56.7	57.3	57.8	59.0	60.2	62.0	62.6
67.5°	48.4	49.0	49.0	49.6	50.2	50.8	51.4	52.5	53.1	54.9	55.5
70°	42.5	42.5	42.5	43.1	43.1	43.7	44.3	45.4	46.0	47.2	48.4
72.5°	35.4	36.0	36.0	36.0	36.6	37.2	37.8	38.4	39.0	39.5	40.7
75°	28.9	29.5	28.9	29.5	30.1	30.1	30.7	31.3	31.9	32.5	33.1
77.5°	23.0	22.4	23.0	23.0	23.6	23.6	23.6	24.2	25.4	25.4	26.6
80°	16.5	16.5	16.5	16.5	17.1	17.1	17.7	17.7	18.9	19.5	20.1
82.5°	10.6	10.6	11.2	11.2	11.2	11.8	11.8	12.4	13.0	13.6	14.2
85°	5.9	5.9	5.9	6.5	6.5	7.1	7.1	7.7	8.3	8.9	9.4
87.5°	1.8	2.4	3.0	3.0	3.5	3.5	4.1	4.1	5.3	5.9	6.5
90°	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.0	3.5
92.5°	10.0	23.6	49.0	73.2	63.2	59.0	35.4	10.6	9.4	10.0	10.0
95°	20.7	39.0	71.4	115.7	149.9	171.2	185.3	212.5	240.2	235.5	175.9
97.5°	30.1	50.2	86.2	126.9	174.1	198.3	216.6	249.1	284.5	314.0	335.3
100°	39.5	60.2	98.6	141.1	184.7	206.6	227.8	272.1	306.9	336.4	364.8
102.5°	49.6	70.2	109.8	154.1	197.1	218.4	239.0	278.0	317.0	352.4	380.1
105°	59.6	80.9	119.8	165.3	208.4	229.6	249.7	286.9	322.9	355.9	387.8
107.5°	70.2	90.3	128.7	174.1	217.2	238.5	258.5	295.7	330.5	363.6	392.5
110°	79.7	99.2	137.5	182.4	225.5	246.7	266.8	304.0	338.2	369.5	397.8



TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88.5	107.4	145.8	189.5	232.0	253.2	272.7	309.9	344.1	374.8	403.1
115°	98.6	115.1	154.1	196.0	237.9	258.5	278.0	314.6	348.8	378.9	406.7
117.5°	106.8	122.8	161.1	201.3	242.6	262.7	281.5	318.1	351.8	381.9	409.0
120°	115.1	129.9	167.6	206.0	246.1	265.6	284.5	320.5	354.1	383.7	410.2
122.5°	123.4	136.9	172.9	210.7	249.1	268.6	286.9	322.3	355.3	384.2	410.2
125°	131.0	142.8	177.7	214.3	250.8	269.7	287.4	322.3	354.7	383.1	409.0
127.5°	138.1	149.3	181.2	217.8	252.0	270.3	287.4	321.1	353.5	381.3	406.7
130°	145.2	155.2	184.7	219.6	253.2	269.7	286.3	318.7	350.6	378.3	402.5
132.5°	152.3	161.7	187.7	221.3	253.8	269.7	285.1	316.4	347.1	374.2	397.2
135°	158.8	166.4	190.6	222.5	253.2	268.6	282.7	312.2	341.7	368.3	390.7
137.5°	164.7	171.2	193.0	223.1	252.6	266.8	281.0	307.5	335.3	361.2	383.1
140°	170.0	175.9	194.2	223.1	250.3	264.4	277.4	302.8	328.2	353.0	374.2
142.5°	174.7	180.0	196.0	221.9	247.9	261.5	273.9	298.1	321.1	344.7	365.4
145°	179.4	183.6	197.1	221.3	244.9	257.3	269.1	292.2	314.6	335.8	355.3
147.5°	183.0	187.1	198.3	219.0	241.4	252.6	263.8	285.7	306.3	326.4	344.1
150°	186.5	190.1	198.9	216.6	237.3	247.3	257.3	278.0	298.1	316.4	332.9
152.5°	190.1	192.4	200.7	214.3	232.6	242.0	252.0	270.3	288.6	305.7	321.7
155°	192.4	194.2	201.3	211.9	227.8	236.1	244.4	261.5	278.0	293.9	308.7
157.5°	194.8	196.5	201.9	210.1	222.5	230.2	237.3	252.0	267.4	281.5	295.1
160°	196.5	197.7	201.9	208.9	217.8	223.1	229.6	243.2	256.2	268.6	280.4
162.5°	198.3	198.9	201.9	207.2	213.7	217.2	221.9	232.6	244.4	255.0	265.6
165°	199.5	200.1	201.9	206.0	210.1	213.1	215.4	223.1	232.0	241.4	250.3
167.5°	200.7	200.7	201.9	204.8	207.2	208.9	210.7	214.8	220.7	227.8	234.3
170°	201.3	201.3	201.9	203.6	205.4	206.0	207.2	209.5	212.5	216.0	220.2
172.5°	201.3	201.3	201.3	202.4	203.0	203.0	203.0	204.2	206.0	208.4	210.1
175°	201.3	200.7	200.7	201.3	200.7	200.7	200.7	200.7	201.3	202.4	203.0
177.5°	201.3	200.7	200.1	200.1	199.5	199.5	198.9	198.9	198.9	198.9	198.9
180°	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7



TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4
2.5°	131.0	131.0	130.4	129.9	129.9	129.9	129.3	128.7	128.1	128.1
5°	131.0	131.0	130.4	130.4	130.4	130.4	129.9	129.9	129.3	129.3
7.5°	131.6	131.0	131.0	131.0	131.0	131.0	131.0	131.0	130.4	130.4
10°	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6	131.6
12.5°	132.2	132.2	132.2	132.2	132.8	132.8	132.8	132.8	132.8	132.8
15°	132.2	132.8	133.4	133.4	133.4	134.0	134.0	134.0	134.0	134.0
17.5°	132.8	133.4	134.0	134.0	134.6	134.6	135.2	135.2	135.2	135.2
20°	132.8	133.4	134.0	134.6	135.2	135.2	135.8	136.3	136.3	135.8
22.5°	132.2	133.4	134.0	134.6	135.2	135.8	136.3	136.9	136.9	136.9
25°	131.6	132.8	134.0	135.2	135.2	135.8	136.9	136.9	136.9	136.9
27.5°	131.0	132.2	133.4	134.6	135.2	135.8	136.3	136.9	136.9	136.9
30°	129.9	131.6	132.8	134.0	134.6	135.2	135.8	136.3	136.3	136.3
32.5°	128.1	129.9	131.0	132.8	133.4	134.0	134.6	135.2	135.2	135.2
35°	126.3	128.1	129.3	131.0	131.6	132.2	133.4	133.4	134.0	134.0
37.5°	123.4	125.7	126.9	128.7	129.3	129.9	131.0	131.6	131.6	131.6
40°	120.4	122.8	123.9	125.7	126.3	126.9	128.1	128.7	129.3	129.3
42.5°	116.9	119.2	120.4	122.2	122.8	123.4	124.5	125.1	125.7	125.7
45°	113.3	115.1	116.3	118.0	119.2	119.2	120.4	121.0	121.6	121.6
47.5°	108.6	110.4	111.6	113.3	114.5	115.1	115.7	116.3	116.9	116.9
50°	103.3	105.1	106.8	108.0	109.2	109.2	110.4	111.0	111.6	111.6
52.5°	98.0	99.2	100.9	102.7	103.3	103.9	104.5	105.1	105.7	105.7
55°	92.1	93.3	95.0	96.2	96.8	97.4	98.0	98.6	99.2	99.2
57.5°	85.6	86.8	88.5	89.7	90.3	90.9	91.5	92.1	92.7	92.7
60°	78.5	79.7	81.5	82.6	83.2	83.2	84.4	85.0	85.0	85.0
62.5°	71.4	72.6	73.8	75.0	75.5	76.1	76.7	77.3	77.3	77.3
65°	64.3	65.5	66.7	67.3	67.9	67.9	68.5	69.1	69.6	69.6
67.5°	56.7	57.8	59.0	59.6	60.2	60.2	60.8	61.4	61.4	61.4
70°	49.0	49.6	50.8	51.4	51.9	51.9	53.1	53.1	53.1	53.1
72.5°	41.3	41.9	43.1	43.7	44.3	44.3	44.9	45.4	45.4	45.4
75°	34.2	34.8	35.4	36.6	36.6	36.6	37.2	37.8	37.8	37.8
77.5°	27.2	27.7	28.3	28.9	29.5	29.5	30.1	30.7	30.7	30.7
80°	20.7	21.2	21.8	22.4	22.4	23.0	23.0	23.6	23.6	23.6
82.5°	14.8	15.3	15.9	16.5	17.1	17.1	17.7	18.3	18.3	17.7
85°	10.0	11.2	11.8	12.4	12.4	12.4	13.0	13.6	13.6	13.0
87.5°	7.1	7.1	7.7	8.3	8.3	8.9	8.9	9.4	9.4	9.4
90°	4.1	4.1	4.7	4.7	5.3	5.3	5.3	5.9	5.9	5.9
92.5°	10.0	10.0	10.6	10.6	10.6	10.6	11.2	11.2	11.2	11.2
95°	107.4	48.4	40.7	24.8	23.6	20.7	20.1	20.7	20.7	20.1
97.5°	360.6	386.0	401.9	409.6	400.2	390.1	378.9	377.2	361.8	327.6
100°	389.0	409.0	428.5	442.1	447.4	452.1	462.7	469.2	472.2	475.1
102.5°	403.1	424.4	441.5	458.6	465.7	472.2	481.6	489.3	492.3	494.6
105°	415.5	437.4	456.2	471.6	478.1	484.0	493.4	500.5	505.8	506.4
107.5°	418.5	441.5	462.7	481.6	489.3	495.8	507.0	512.3	517.0	517.0
110°	423.8	445.6	465.1	482.2	489.9	497.6	509.4	517.6	522.4	523.5



TEST NUMBER: P395650

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	427.9	450.3	468.6	485.8	492.3	499.3	510.6	518.2	522.4	524.1
115°	431.5	453.3	471.6	487.5	494.6	501.7	512.9	519.4	524.1	525.9
117.5°	433.8	455.1	473.4	488.1	495.8	501.7	512.3	519.4	524.1	524.7
120°	434.4	455.7	473.4	488.1	494.6	501.1	511.7	518.8	523.5	523.5
122.5°	434.4	455.1	472.8	486.9	492.8	498.7	508.8	517.0	521.2	521.2
125°	432.0	452.7	469.8	484.0	489.9	495.2	505.8	513.5	517.6	518.2
127.5°	428.5	448.6	465.7	479.9	485.8	490.5	501.7	508.8	512.9	513.5
130°	423.8	443.9	460.4	474.0	479.9	485.2	494.6	502.3	507.0	508.2
132.5°	418.5	437.4	453.9	466.9	472.8	477.5	486.9	494.6	498.7	500.5
135°	412.0	429.7	445.6	458.6	464.5	469.2	478.1	485.8	489.9	491.7
137.5°	403.7	420.8	436.2	449.2	454.5	459.2	468.1	475.1	478.7	481.0
140°	394.3	410.2	426.1	438.0	443.3	448.0	455.7	463.3	466.9	468.6
142.5°	384.2	400.2	414.3	426.1	430.9	435.6	443.3	450.3	453.9	454.5
145°	373.6	389.0	401.9	413.2	417.3	422.0	429.1	436.2	439.7	440.3
147.5°	361.8	376.0	388.4	399.0	403.7	407.3	413.8	420.2	423.8	424.4
150°	348.2	361.2	372.4	383.1	387.2	390.7	397.8	403.7	407.3	407.9
152.5°	335.3	347.6	357.1	366.5	370.7	374.2	380.1	386.0	389.6	390.1
155°	321.7	332.9	342.3	350.0	353.5	357.1	361.8	367.1	370.1	370.7
157.5°	307.5	318.1	326.4	333.5	337.0	340.0	344.1	348.8	350.6	351.8
160°	292.2	301.0	308.1	315.2	318.1	321.1	325.2	328.8	331.1	331.7
162.5°	275.6	283.3	289.2	295.7	297.5	299.8	304.0	307.5	309.3	309.9
165°	258.5	265.6	270.9	276.2	277.4	279.2	282.1	285.7	286.9	288.0
167.5°	241.4	247.3	250.8	255.6	257.3	258.5	261.5	263.8	265.0	265.6
170°	224.9	229.0	232.0	235.5	236.1	237.9	239.6	242.0	242.6	242.6
172.5°	211.9	213.7	215.4	216.6	217.2	217.8	219.0	219.6	219.6	219.6
175°	203.6	204.8	204.8	205.4	205.4	205.4	205.4	205.4	205.4	205.4
177.5°	198.9	198.9	198.9	198.3	198.3	198.3	198.3	197.7	197.7	197.7
180°	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7

(END OF REPORT)